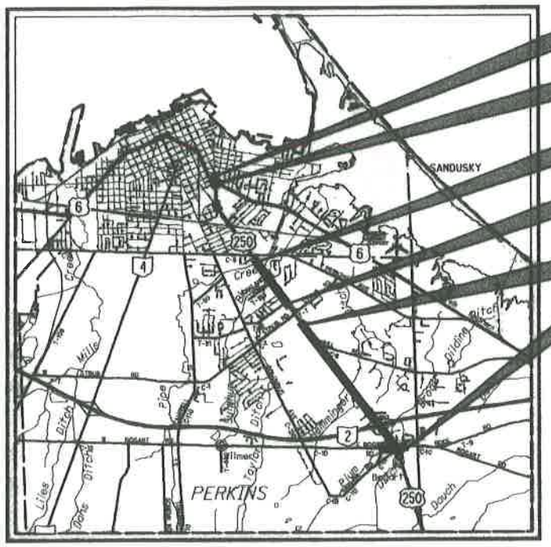

BEGIN PROJECT STA. 0+00

SUSPEND PROJECT STA. 2+42.00

RESUME PROJECT STA. 66+28.84

SUSPEND PROJECT STA. 102+09.19

RESUME PROJECT STA. 120+33.36

END PROJECT STA. 234+00.00

LOCATION MAP

LATITUDE: 41°25'08" LONGITUDE: 82°40'28"

SCALE IN MILES

0 1 2 3 4

PORTION TO BE IMPROVED

INTERSTATE HIGHWAY

STATE & FEDERAL ROUTES

COUNTY & TOWNSHIP ROADS

OTHER ROADS

FOR DESIGN DESIGNATION AND DESIGN EXCEPTIONS SEE SHEET 2.

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

ERI-250-0.00

CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

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PROJECT DESCRIPTION

THIS PROJECT INCLUDES IMPROVING US 250 (MILAN ROAD) BY UPGRADING THE EXISTING TRAFFIC SIGNALS AND SIGNING, INCORPORATING ACCESS MANAGEMENT, AND ADDING TURN LANES WHERE NEEDED. A FIVE FOOT WIDE SIDEWALK WILL ALSO BE ADDED IN AREAS WHERE SIDEWALK IS MISSING. ADDITIONAL LANES ON THE SR 2 INTERCHANGE RAMPS WILL BE ADDED. SIDEROAD IMPROVEMENTS INCLUDE HULL ROAD, CROSSINGS ROAD, FUN DRIVE, SR 2 RAMPS "A", "B" AND "C" AND BOGART RD. NEW ALIGNMENT WILL BE CONSTRUCTED AT BAY WINDS/PARK PLACE SOUTH DRIVE INTERSECTION WITH US 250.

PROJECT EARTH DISTURBED AREA: 21.7 ACRES

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 2.0 ACRES

NOTICE OF INTENT EARTH DISTURBED AREA: 24.0 ACRES

2013 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CONSTRUCTION PROJECT NO

RAILROAD INVOLVEMENT NONE

ERI-250-0.00

1 / 677

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL 1-800-362-2764 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:

POGGEMEYER DESIGN GROUP, INC.

ARCHITECTS - ENGINEERS - PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
PH. : (419) 352-7537

ENGINEERS SEAL:

Roadway & Signals

STATE OF OHIO · GREGORY A BIESZCZAD · E-47592 · REGISTERED PROFESSIONAL ENGINEER

SIGNED: Greg Bieszczad
DATE: 10-20-2014

ENGINEERS SEAL:

Structure

STATE OF OHIO · JEFFREY THOMAS YODER · E-61418 · REGISTERED PROFESSIONAL ENGINEER

SIGNED:
DATE: 10-20-2014

STANDARD CONSTRUCTION DRAWINGS

BP-2.1	7/19/13	DM-1.1	1/18/13	MT-95.31	7/18/14	TC-41.20	10/18/13	
BP-2.2	7/18/08	DM-1.2	1/18/13	MT-95.32	7/18/14	TC-41.30	10/18/13	
BP-2.5	7/19/13	DM-1.4	1/18/13	MT-97.10	7/18/14	TC-41.40	10/18/13	
BP-3.1	7/18/14	DM-4.3	7/19/13	MT-97.12	7/18/14	TC-41.50	10/18/13	
BP-4.1	7/19/13	DM-4.4	7/20/12	MT-99.20	7/19/13	TC-42.10	10/18/13	
BP-5.1	7/19/13			MT-101.60	7/18/13	TC-42.20	10/18/13	
BP-7.1	7/18/14	WQ-1.2	1/18/13	MT-101.70	1/17/14	TC-51.11	1/17/14	
		WQ-1.3	7/20/12	MT-101.90	7/18/14	TC-51.12	1/17/14	
CB-1.1	1/18/13			MT-102.20	7/18/14	TC-52.10	10/18/13	
CB-2.1	1/18/13			MT-105.10	7/19/13	TC-52.20	7/18/14	
CB-2.2	1/17/14			MT-120.00	7/19/13	TC-65.10	1/17/14	
CB-2.3	1/18/13	HL-10.11	1/17/14			TC-65.11	7/18/14	
		HL-10.12	1/17/14			TC-71.10	1/17/14	
HW-2.1	1/18/13	HL-30.11	1/17/14			TC-81.21	1/17/14	
HW-2.2	1/18/13	HL-30.22	1/17/14	TC-9.10	1/17/14	TC-83.10	1/17/14	
		HL-40.10	1/17/14	TC-12.30	10/18/13	TC-83.20	10/18/13	
I-1.2	1/18/13	HL-60.11	1/17/14	TC-16.21	10/18/13	TC-85.10	10/18/13	
		HL-60.12	1/17/14	TC-21.20	10/18/13	TC-85.20	10/18/13	
MH-1.1	1/18/13	HL-60.31	1/17/14	TC-22.20	1/17/14			
MH-1.2	1/18/13			TC-41.10	7/19/13			

SUPPLEMENTAL SPECIFICATIONS

800	10/17/14
809	7/8/14
832	1/17/14
835	12/31/12
861	7/9/13

SPECIAL PROVISIONS

APPROVED _____
DATE 10-23-14 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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DESIGN DESIGNATION - US 250 (SYCAMORE LINE RD. NORTH OF US-6)

CURRENT ADT (2016)	5280
DESIGN YEAR ADT (2036)	5340
DESIGN HOURLY VOLUME (2036)	490
DIRECTIONAL DISTRIBUTION	51%
TRUCKS (24 HOUR B&C)	110
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN LOCAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

DESIGN DESIGNATION - US 250 (STRUB ROAD TO S.R. 2)

CURRENT ADT (2016)	30420
DESIGN YEAR ADT (2036)	32300
DESIGN HOURLY VOLUME (2036)	3250
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	325
DESIGN SPEED	40 MPH
LEGAL SPEED	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

SIDE ROAD DESIGN DESIGNATION - HULL ROAD

CURRENT ADT (2016)	6020
DESIGN YEAR ADT (2036)	6540
DESIGN HOURLY VOLUME (2036)	640
DIRECTIONAL DISTRIBUTION	54%
TRUCKS (24 HOUR B&C)	65
DESIGN SPEED	35 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

Design Feature	Approval Date	Sheet No.
HORIZONTAL ALIGNMENT	11/15/13	249 - 250
SUPERELEVATION RATE	11/15/13	13

DESIGN DESIGNATION - US 250 (SOUTH OF US-6)

CURRENT ADT (2016)	8380
DESIGN YEAR ADT (2036)	8840
DESIGN HOURLY VOLUME (2036)	810
DIRECTIONAL DISTRIBUTION	52%
TRUCKS (24 HOUR B&C)	90
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

DESIGN DESIGNATION - US 250 (SOUTH OF S.R. 2)

CURRENT ADT (2016)	21430
DESIGN YEAR ADT (2036)	22720
DESIGN HOURLY VOLUME (2036)	2300
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	455
DESIGN SPEED	40 MPH
LEGAL SPEED	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

SIDE ROAD DESIGN DESIGNATION - BAY WINDS / S. PARK PL.

CURRENT ADT (2016)	6290
DESIGN YEAR ADT (2036)	6420
DESIGN HOURLY VOLUME (2036)	650
DIRECTIONAL DISTRIBUTION	52%
TRUCKS (24 HOUR B&C)	65
DESIGN SPEED	25 MPH
LEGAL SPEED	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
PRIVATE/URBAN LOCAL	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

DESIGN DESIGNATION - US 250 (PERKINS AVE. TO STRUB RD.)

CURRENT ADT (2016)	22900
DESIGN YEAR ADT (2036)	25690
DESIGN HOURLY VOLUME (2036)	2630
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	260
DESIGN SPEED	40 MPH
LEGAL SPEED	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

SIDE ROAD DESIGN DESIGNATION - US 6

CURRENT ADT (2016)	11980
DESIGN YEAR ADT (2036)	12820
DESIGN HOURLY VOLUME (2036)	870
DIRECTIONAL DISTRIBUTION	57%
TRUCKS (24 HOUR B&C)	260
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

SIDE ROAD DESIGN DESIGNATION - S.R. 2 WB RAMP

CURRENT ADT (2016)	4190
DESIGN YEAR ADT (2036)	4550
DESIGN HOURLY VOLUME (2036)	430
DIRECTIONAL DISTRIBUTION	NA
TRUCKS (24 HOUR B&C)	230
DESIGN SPEED	65/40 MPH
LEGAL SPEED	65/40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
FREEWAY	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

SIDE ROAD DESIGN DESIGNATION - BOGART ROAD

CURRENT ADT (2016)	8780
DESIGN YEAR ADT (2036)	9600
DESIGN HOURLY VOLUME (2036)	1030
DIRECTIONAL DISTRIBUTION	52%
TRUCKS (24 HOUR B&C)	190
DESIGN SPEED	45 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

CALCULATED | CHECKED

DESIGN DESIGNATION

ERI-250-0.00

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POT Sta. 0+00.00
S2°33'36"E
S2°31'2
PI Sta. 4+98.86
Sta. 9+39.24 SYCAMORE LINE RD. =
Sta. 474+15.00, US 6 (CLEVELAND RD.)
Sta. 9+40.50 SYCAMORE LINE RD. (BK)=
Sta. 0+00.00 US 250 (SYCAMORE LINE RD.) AHD=
BEGIN PROJECT
STA. 6+56.23
SYCAMORE LINE
BEGIN US-250
STA. 0+00.00
SLM = 0.00
SUSPEND PROJECT
STA. 0+42.00
SLM = 0.05
RESUME WORK
STA. 15+15.00
SLM = 0.29
SUSPEND WORK
STA. 20+65.00
SLM = 0.39
S02°32'42"E
PID 84556
752.55'
634.37'
RESUME PROJECT & WORK
STA. 66+28.84
SLM = 1.26
PI Sta. 59+94.38
S35°52'47"E
S35°52'03"E
NO WORK
PI STA. 59+94.38 (PID 88407)=
PI STA. 60+19.20 (PID 84556)
SULPHUR BROOK
MATCH LINE STA. 95+00
(C1)
P.I.= Sta. 98+28.34
D = 01° 09' 45" (LT)
Dc = 00° 30' 00"
R = 11,459.16'
T = 116.25'
L = 232.49'
E = 0.59'
C = 232.49'
C.B. = S 36° 26' 55" E
PID 83548
SUSPEND PROJECT
STA. 102+09.19
SLM = 1.93
843.13'
981.04'
RESUME PROJECT
STA. 120+33.36
SLM = 2.28
PC Sta. 97+12.09
PT Sta. 99+44.58
MILAN RD. (US 250)
FORCE AVE.
DEWITT AVE.
STRUB RD.
TARGET DRIVE
MALL BLVD.
S. MALL BLVD.
HULL RD.
CARTOR RD.
WOLF LODGE DR.
MEIJER NORTH DR.
MEIJER CENTER DR.
MEIJER SOUTH DR.
N. PARK PL.
S. PARK PL.
RAMADA ST.
FUN DRIVE
BAY WINDS DR.
HEMMING DITCH
CROSSING RD.
QUARRY ACCESS DR.
STA. 110+52.32 (PID 88407)=
STA. 110+93.13 (PID 83548)
STA. 139+43.12,
℄ R/W & CONST. US 250=
STA. 11+98.89,
℄ CONST. HULL RD.
POT Sta. 10+00.00
POT Sta. 18+00.00
N51°35'10"E
PC S37°01'48"E
STA. 188+88.44,
℄ R/W & CONST. US 250=
STA. 50+00.00,
℄ R/W & CONST.
FUN DR.
STA. 181+51.79,
℄ R/W & CONST. US 250=
STA. 50+00.00,
℄ R/W & CONST.
CROSSING RD.
PI Sta. 190+10.84
N52°39'57"E
STA. 198+13.28,
℄ R/W & CONST. US 250=
STA. 0+00.00,
℄ R/W & CONST.
RAMADA ST.
N52°58'12"E
STA. 195+57.13,
℄ R/W & CONST. US 250=
STA.49+88.11,
℄ R/W & CONST.
BAY WINDS DR. / S. PARK PL.
ELEC. TOWERS
MATCH LINE STA. 200+00
STA. 202+48.31,
℄ R/W & CONST. US 250=
STA. 0+00.00,
℄ R/W & CONST.
RAMP "B"=
STA. 14+79.78,
℄ R/W & CONST.
RAMP "A"
RAMP "A"
RAMP "B"
RAMP "C"
RAMP "D"
RTE 2 (WEST BOUND)
RTE 2 (EAST BOUND)
MILAN RD. (US 250)
BEATTY LANE
EXIST. BRIDGE
PLUM BROOK
KINGSLEY CIR. W.
BOGART RD.
LINDSLEY DITCH
STA. 207+49.68,
℄ R/W & CONST. US 250=
STA. 860+35.68,
℄ R/W & RTE 2
STA. 212+98.65,
℄ R/W & CONST. US 250=
STA. 0+00.00,
℄ R/W & CONST.
RAMP "C"=
STA. 15+89.00,
℄ R/W & CONST.
RAMP "D"
STA. 227+66.68,
℄ R/W & CONST. US 250=
STA. 370+85.62,
℄ CONST.
BOGART RD.
END PROJECT & WORK
STA. 234+00.00
SLM = 4.43
PI Sta. 362+33.17
PC Sta. 222+89.38
PT Sta. 232+63.45
S88°56'10"E
S88°38'59"E
N19°44'48"E
(C2)
P.I.= Sta. 227+81.16
D = 19° 28' 53" (RT)
Dc = 02° 00' 00"
R = 2,864.79'
T = 491.78'
L = 974.07'
E = 41.90'
C = 969.39'
C.B. = S 27° 23' 45" E
— POT Sta. 44+92.65
— PC Sta. 45+92.65
— PRC Sta. 47+07.45
— PT Sta. 52+81.94
— POT Sta. 53+37.98
BAY WINDS DR. / S. PARK PL.
CURVE DATA
P.I. Sta. 46+51.71
Δ = 33° 13' 12" (LT)
Dc = 28° 56' 14"
R = 198.00'
T = 59.06'
L = 114.80'
E = 8.62'
C = 113.20'
C.B. = N 36° 21' 36" E
P.I. Sta. 50+02.87
Δ = 32° 54' 58" (RT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 295.42'
L = 574.49'
E = 42.72'
C = 566.63'
C.B. = N 36° 12' 28" E
PROPOSED HULLL ROAD
CURVE DATA
— PC Sta. 10+60.00
— PT Sta. 15+58.36
P.I. Sta. 13+30.10
Δ = 54° 48' 22" (RT)
Dc = 10° 59' 50"
R = 521.00'
T = 270.10'
L = 498.36'
E = 65.85'
C = 479.58'
C.B. = N 78° 59' 21" E
BOGART ROAD
CURVE DATA
— PC Sta. 368+93.49
— PT Sta. 371+25.57
P.I. Sta. 370+09.93
Δ = 11° 36' 15" (LT)
Dc = 5° 00' 00"
R = 1,145.92'
T = 116.44'
L = 232.09'
E = 5.90'
C = 231.69'
C.B. = N 85° 32' 56" E
HORIZONTAL SCALE IN FEET
0 200 400 800
CALCULATED
CHECKED
SCHEMATIC PLAN
ERI-250-0.00
3
677
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PROJECT GROUND COORDINATES - US SURVEY FEET							
PRIMARY PROJECT CONTROL POINTS							
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00,1.14, 8.76M USED FOR ALIGNMENT				
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE	DESCRIPTION
CP01	OffChain	OffChain	649162.111	1914502.860	591.18	MAGS	MAG NAIL SET
CP02	5+69.64	31.83	648125.089	1914478.038	595.98	MAGS	MAG NAIL SET
CP03	51+59.48	-35.45	644192.407	1916551.590	588.60	RSPK	SURVEY MARK SPIKE FOUND
CP04	59+02.53	40.62	643545.768	1916925.438	585.94	RSPK	SURVEY MARK SPIKE FOUND
CP05	72+41.61	39.79	642461.116	1917710.712	586.26	IPIN	5/8" IRON PIN FOUND CAPPED 'ODOT CONTROL'
CP06	19+45.53	33.06	646756.354	1914612.427	599.35	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP07	24+88.55	-33.62	646355.453	1914984.710	599.75	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP08	30+50.00	58.66	645846.455	1915238.993	608.89	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP09	45+41.28	47.59	644644.633	1916121.983	589.70	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP10	82+10.59	-42.53	641724.113	1918345.152	591.04	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP11	92+85.64	39.42	640804.906	1918908.629	598.90	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP12	109+93.20	-37.34	639480.763	1919989.879	610.24	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP13	124+96.25	42.35	638232.852	1920831.449	611.07	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP14	138+37.19	-52.02	637219.189	1921714.348	613.70	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP15	156+32.14	40.25	635730.674	1922721.665	614.42	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP16	165+81.45	-45.95	635024.733	1923362.185	613.81	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP17	182+25.17	40.09	633660.705	1924283.397	611.95	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP18	197+45.63	-44.29	632498.594	1925267.471	607.04	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP20	226+92.56	-42.06	630126.770	1927024.416	617.04	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP21	238+55.33	51.54	629003.382	1927343.786	617.46	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'
CP22	38+67.27	40.09	645195.146	1915733.029	594.17	RSPKS	SURVEY MARK SPIKE SET
CPBASE19	213+74.01	75.32	631128.240	1926155.194	608.01	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'

SR 250 MONUMENTATION/ALIGNMENT							CENTERLINE RIGHT OF WAY & CONSTRUCTION POINTS
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00,1.14, 8.76M USED FOR ALIGNMENT				
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE	DESCRIPTION
ERI0250001	26+00.49	-0.22	646245.176	1915023.254	598.10	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250002	49+61.05	0.11	644332.343	1916406.476	588.25	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250003	50+54.91	0.04	644256.331	1916461.541	587.93	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250004	54+17.41	-0.03	643962.657	1916674.055	586.94	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250005	59+94.38	0.00	643495.150	1917012.185	585.30	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250006	68+21.94	0.06	642824.484	1917497.015	587.27	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250007	75+22.00	-0.07	642257.246	1917907.293	585.96	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250008	82+72.28	0.03	641649.182	1918346.810	591.53	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250009	90+72.39	-0.01	641000.818	1918815.638	596.78	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250010	98+28.34	0.59	640388.212	1919258.550	602.36	MONBOX	1" IRON PIN IN MONUMENT BOX AT P.I. OF CURVE
ERI0250011	106+72.74	0.16	639714.005	1919766.950	607.94	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250012	114+72.80	0.11	639075.330	1920248.811	610.56	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250013	123+23.11	0.28	638396.416	1920760.763	610.89	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250014	131+48.20	0.22	637737.759	1921257.712	611.22	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250015	139+73.62	0.35	637078.733	1921754.692	613.84	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250016	148+23.81	0.46	636399.940	1922266.627	614.14	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250017	156+74.01	0.41	635721.241	1922778.684	614.07	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250018	164+74.28	0.28	635082.447	1923260.729	613.52	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250019	173+24.31	0.06	634403.979	1923772.824	606.95	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250020	181+74.40	0.08	633725.327	1924284.767	611.22	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250021	190+10.84	0.00	633057.629	1924788.556	610.24	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250022	199+24.94	-0.08	632328.959	1925340.476	606.30	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250023	214+50.07	-0.01	631113.078	1926261.170	606.95	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250024	222+87.33	0.00	630445.609	1926766.626	611.22	MONBOX	1" IRON PIN IN MONUMENT BOX AT P.C. OF CURVE
ERI0250025	232+65.38	0.00	629581.151	1927213.879	615.48	MONBOX	1" IRON PIN IN MONUMENT BOX C/L CONSTRUCTION ERI-250-8.763M
ERI0250026	273+17.55	0.00	625720.043	1928443.491	639.76	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250027	248+64.13	-0.08	628057.804	1927699.094	625.98	MONBOX	5/8" IRON PIN CAPPED 8073
ERI0250028	OffChain	OffChain	649635.153	1914442.759	587.60	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250029	OffChain	OffChain	649160.522	1914464.021	588.91	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250030	OffChain	OffChain	649136.795	1914465.041	589.57	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250031	0+00.00	0.00	648695.581	1914484.492	592.85	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250032	2+33.48	-0.10	648462.334	1914494.983	594.16	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250033	10+00.19	0.01	647696.377	1914528.982	595.80	MONBOX	1" IRON PIN IN MONUMENT BOX
ERI0250034	18+19.68	0.00	646877.700	1914565.456	597.44	MONBOX	1" IRON PIN IN MONUMENT BOX

CALCULATED | CHECKED

SCHEMATIC PLAN - CONTROL POINTS

ERI-250-0.00

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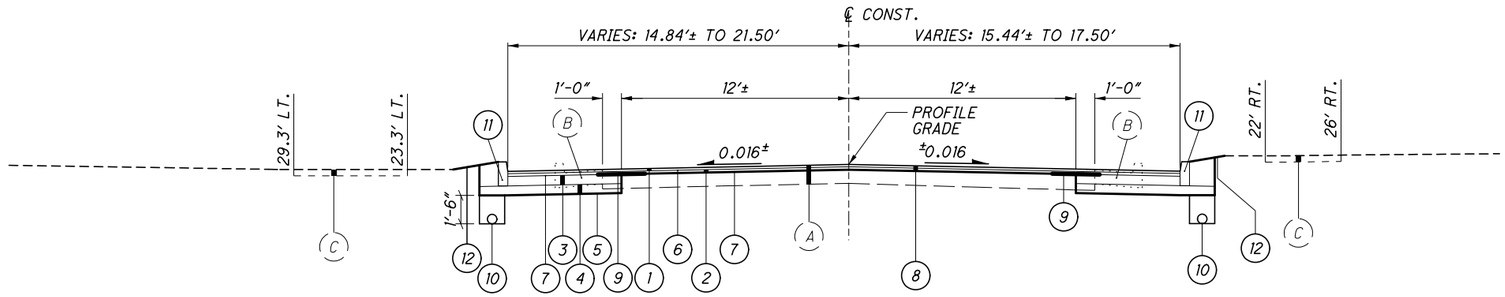
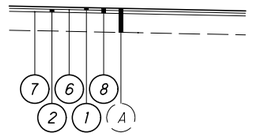


TYPICAL SECTION - SYCAMORE LINE RD. (NORTH OF US-6)

SECTION APPLIES: STA. 6+56.22 TO STA. 9+40.50 = 284.28 FT.



TYPICAL SECTION - CLEVELAND RD. (US 6) RESURFACING

SECTION APPLIES: STA. 472+43.29 TO STA. 476+15.86 = 372.57 FT.

LEGEND

(A) EXISTING PAVEMENT — 9"± MIN. ASPHALT CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)

(B) EXISTING CURB AND GUTTER

(C) EXISTING SIDEWALK

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 7" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC

(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - CURB, TYPE 6

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(13) ITEM 608 - 4" CONCRETE WALK

(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2

TYPICAL SECTIONS - US 250

ERI-250-0.00

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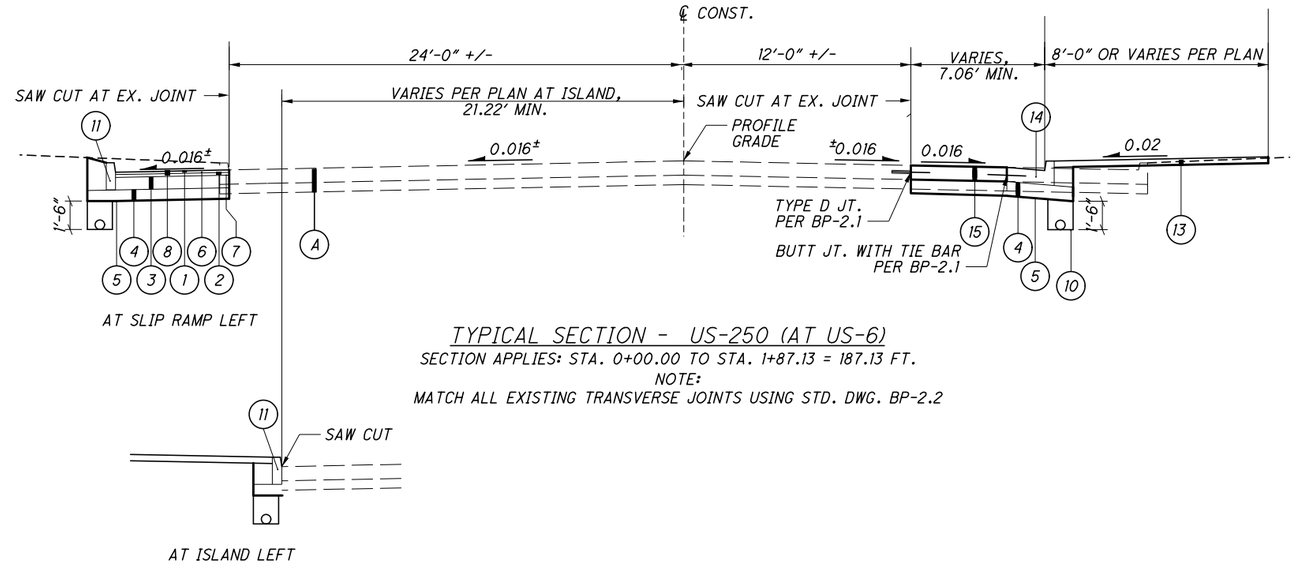

TYPICAL SECTION - US-250 (AT US-6)

SECTION APPLIES: STA. 0+00.00 TO STA. 1+87.13 = 187.13 FT.

NOTE:
MATCH ALL EXISTING TRANSVERSE JOINTS USING STD. DWG. BP-2.2

LEGEND

(A) EXISTING PAVEMENT — 9"± MIN. CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)

(B) EXISTING CURB

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 7" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - CURB, TYPE 6

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(13) ITEM 608 - 4" CONCRETE WALK

(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2

(15) ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT WITH QC/QA

TYPICAL SECTIONS - US 250

ERI-250-0.00

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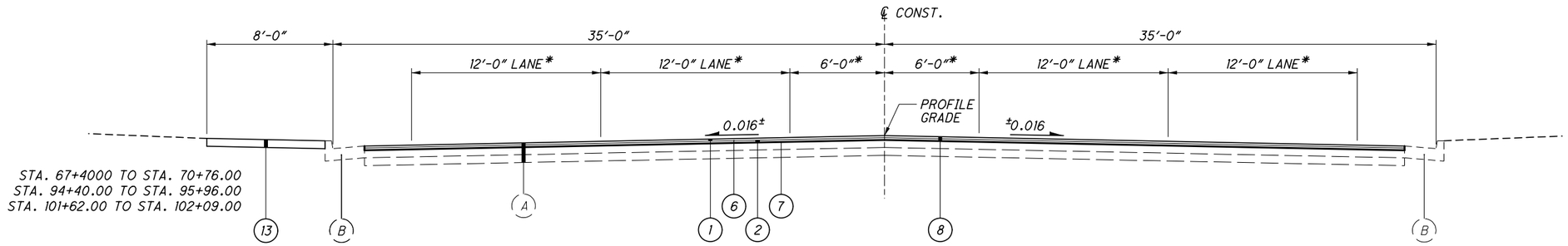
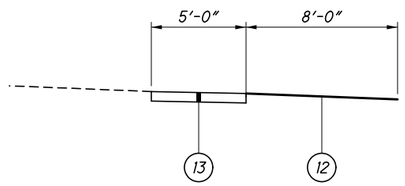


TYPICAL SECTION - US-250 (PERKINS TO STRUB)

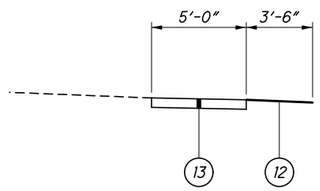
SECTION APPLIES:
STA. 66+28.84 TO STA. 66+54.29 = 25.45 FT.
STA. 67+47.28 TO STA. 73+40.74 = 593.46 FT.
STA. 73+64.40 TO STA. 102+09.19 = 2,844.79 FT.
TOTAL= 3,463.70 FT.

* VARIES STA. 97+12.09 AHEAD AT DEWITT AVE. SEE EXISTING MARKING PLAN AND NOTE N-11

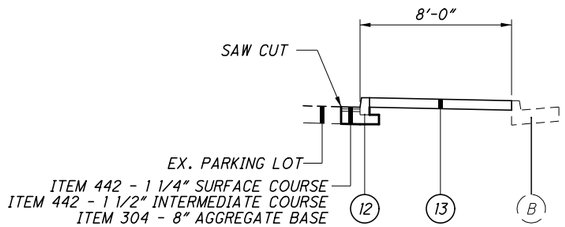
SPOT CURB & GUTTER REPLACEMENT NOT SHOWN - SEE PLAN & DRIVE DETAILS



SECTION APPLIES: STA. 96+45.00 TO STA. 101+62.00



SECTION APPLIES: STA. 77+24.00 TO STA. 85+36.00



SECTION APPLIES: STA. 83+43.00 TO STA. 94+14.00

LEGEND

- (A) EXISTING PAVEMENT — 9"± MIN. ASPHALT CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)
- (B) EXISTING CURB AND GUTTER
- (1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)
- (2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)
- (3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28
- (4) ITEM 304 - 7" AGGREGATE BASE
- (5) ITEM 204 - SUBGRADE COMPACTION
- (6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)
- (7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)
- (8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE
- (9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC
- (10) ITEM 605 - 4" BASE PIPE UNDERDRAIN
- (11) ITEM 609 - CURB, TYPE 6
- (12) ITEM 659 - SEEDING AND MULCHING; ITEM 653 - 4" TOPSOIL
- (13) ITEM 608 - 4" CONCRETE WALK

TYPICAL SECTIONS - US 250

ERI-250-0.00

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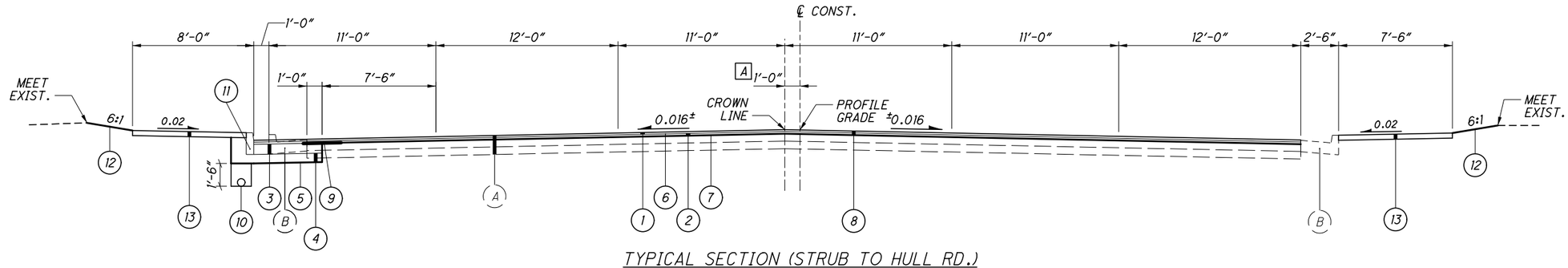

TYPICAL SECTION (STRUB TO HULL RD.)

SECTION APPLIES: STA. 120+33.36 TO STA. 139+85.00 = 1951.64 FT.

A VARIES 1'-0" TO 4'-0"
APPLIES: STA. 138+61.38 TO 139+85.00

LEGEND

(A) EXISTING PAVEMENT — 9"± MIN. ASPHALT CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)

(B) EXISTING CURB AND GUTTER

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 7" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC (30" WIDE)

(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - CURB, TYPE 6

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(13) ITEM 608 - 4" CONCRETE WALK

(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2

TYPICAL SECTIONS - US 250

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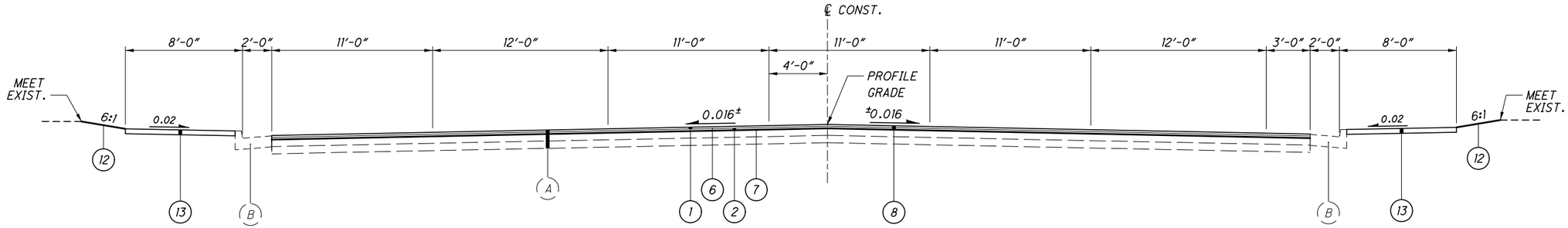
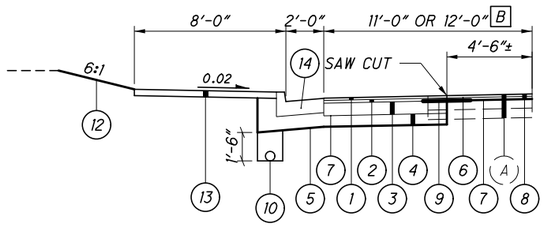
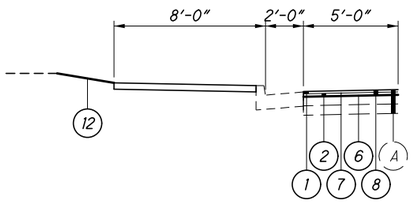


TYPICAL SECTION - US-250 (HULL RD. TO RAMADA ST.)

SECTION APPLIES: STA. 139+85.00 TO STA. 198+29.07 = 5944.07' FT.

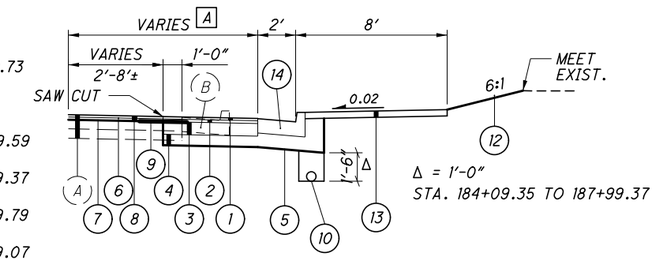


B 11'-0" FROM STA. 197+34.66 TO STA. 168+27.66
12'-0" FROM STA. 140+90.59 TO STA. 148+64.36



STA. 151+06.38 TO STA. 154+99.70
STA. 168+27.68 TO STA. 171+65.39

A 8.09' TO 11.00'
STA. 175+44.55 TO STA. 176+71.73
11.00'
STA. 176+71.73 TO 180+30.99
8.81' TO 11.00'
STA. 184+09.35 TO STA. 184+29.59
11.00'
STA. 184+29.59 TO STA. 187+99.37
2.50' TO 12.00'
STA. 196+79.79 TO STA. 197+29.79
12.00'
STA. 197+29.79 TO STA. 198+29.07



Δ = 1'-0"
STA. 184+09.35 TO 187+99.37

LEGEND

(A) EXISTING PAVEMENT — 9"± MIN. ASPHALT CONCRETE (TYP.)
6"± MIN. STONE BASE (TYP.)

(B) EXISTING CURB AND GUTTER

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 7" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC (30" WIDE)

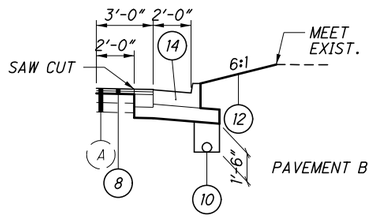
(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - CURB, TYPE 6

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(13) ITEM 608 - 4" CONCRETE WALK

(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2



PAVEMENT BUILD UP SAME AS ABOVE

STA. 193+50.00 TO STA. 196+79.79

TYPICAL SECTIONS - US 250

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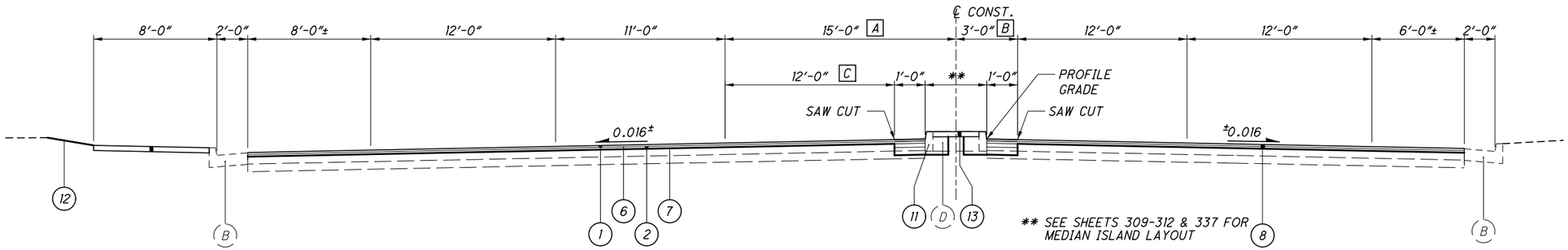
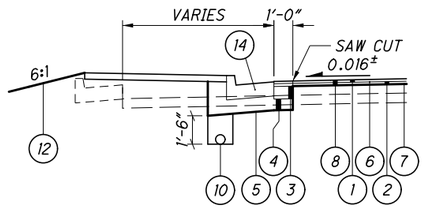


TYPICAL SECTION - US-250 (RAMADA ST. THROUGH SR-2)

SECTION APPLIES: STA. 198+29.07 TO STA. 213+50.00 = 1520.93 FT.



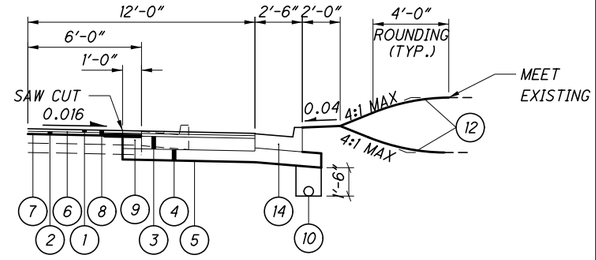
TYPICAL SECTION

SECTION APPLIES: STA. 198+29.07 TO RAMP "B"

A VARIES: 4' TO 15'
STA. 198+29.07 TO STA. 202+34.38
VARIES: 15' TO 6'
STA. 209+00.00 TO STA. 212+11.20

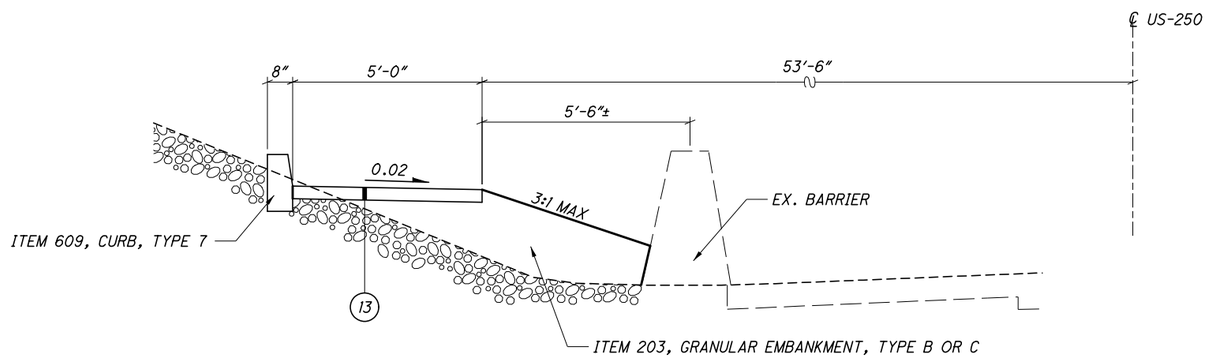
B 6'
STA. 198+29.07 TO STA. 198+66.21
VARIES: 6' TO 3'
STA. 198+66.21 TO STA. 200+01.21
VARIES: 3' TO 6'
STA. 212+15.00 TO STA. 213+50.00

C TURN LANE: 12'
STA. 203+58.00 TO STA. 205+28.08
VARIES: 12' TO 0'
STA. 205+28.08 TO STA. 206+34.20



TYPICAL SECTION

SECTION APPLIES: STA. 198+29.07 TO STA. 202+48.14



SIDEWALK TYPICAL SECTION

SECTION APPLIES: STA. 206+71.00 TO 209+05

LEGEND

(A) EXISTING PAVEMENT — 9"± MIN. ASPHALT CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)
(B) EXISTING CURB AND GUTTER
(D) EXISTING CURBED ISLAND

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)
(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)
(3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28
(4) ITEM 304 - 7" AGGREGATE BASE
(5) ITEM 204 - SUBGRADE COMPACTION
(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)
(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)
(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE
(9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC (30" WIDE)
(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN
(11) ITEM 609 - CURB, TYPE 6
(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL
(13) ITEM 608 - 4" CONCRETE WALK
(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2

TYPICAL SECTIONS - US 250

ERI-250-0.00

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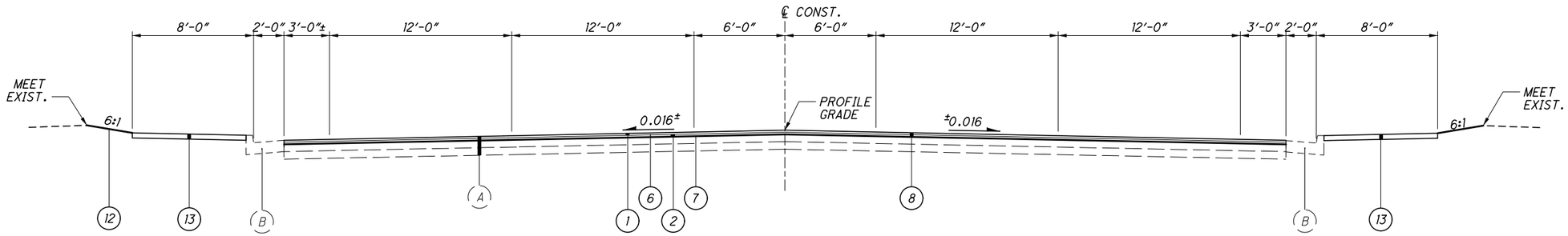
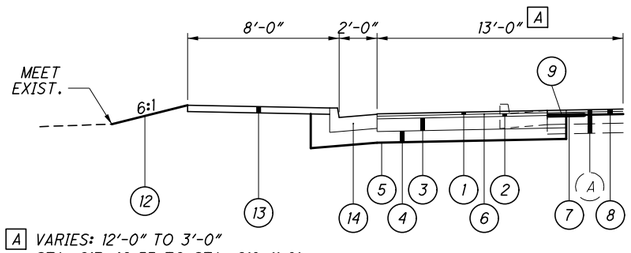


TYPICAL SECTION

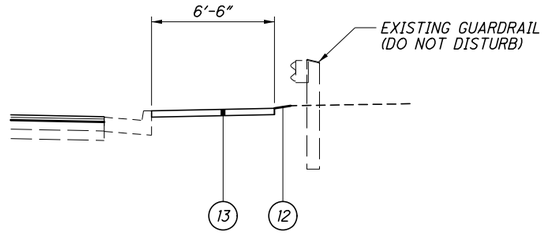
SECTION APPLIES: STA. 213+50.00 TO STA. 220+00 = 650.00 FT.



A VARIES: 12′-0″ TO 3′-0″
STA. 217+46.53 TO STA. 218+11.81

TYPICAL SECTION

SECTION APPLIES: STA. 217+46.53 TO STA. 218+11.81



SECTION APPLIES: STA. 218+27 TO STA. 220+38, RT.

LEGEND

(A) EXISTING PAVEMENT — 9″± MIN. ASPHALT CONCRETE (TYP.)
6″± MIN. STONE BASE (TYP.)

(B) EXISTING CURB AND GUTTER

(1) ITEM 442 - 1 1/2″ ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(2) ITEM 442 - 1 3/4″ ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(3) ITEM 301 - 8″ ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 7″ AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4″ PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC (30″ WIDE)

(10) ITEM 605 - 4″ BASE PIPE UNDERDRAIN

(11) ITEM 609 - CURB, TYPE 6

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4″ TOPSOIL

(13) ITEM 608 - 4″ CONCRETE WALK

(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2

TYPICAL SECTIONS - US 250

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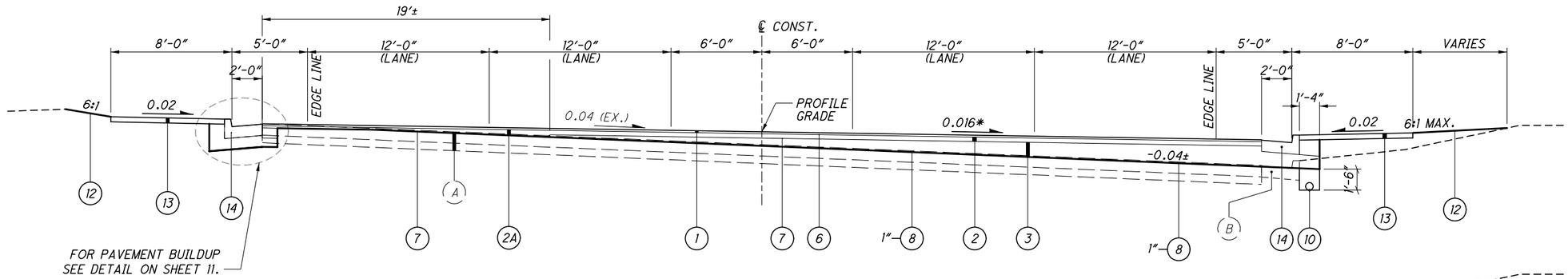
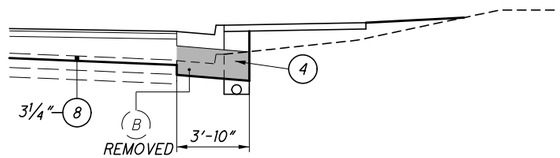
*VARIES
STA. 220+00 TO 223+50
AND
STA. 233+00 TO 234+00
SEE CROSS SECTIONS FOR ELEVATIONS

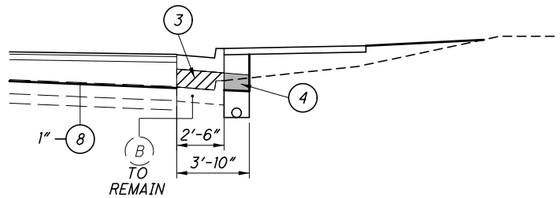


TYPICAL SECTION - US-250 (SUPERELEVATED)

SECTION APPLIES: STA. 220+00.00 TO STA. 234+00.00 = 1400.00 FT.



APPLIES: STA. 220+00.00 TO STA. 222+75.00 = 275.00 FT.
STA. 232+00.00 TO STA. 233+25.00 = 125.00 FT.



APPLIES: STA. 222+75.00 TO STA. 232+00 = 925.00 FT.

LEGEND

(A) EXISTING PAVEMENT — 9"± MIN. ASPHALT CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)

(B) EXISTING CURB AND GUTTER

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)

(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(2A) ITEM 442 - 1 3/4" MIN., 5 1/4" MAX. ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)

(3) ITEM 301 - 3 1/2" MIN., 17" ± MAX., ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE

(9) NOT USED

(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - CURB, TYPE 6

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(13) ITEM 608 - 4" CONCRETE WALK

(14) ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2

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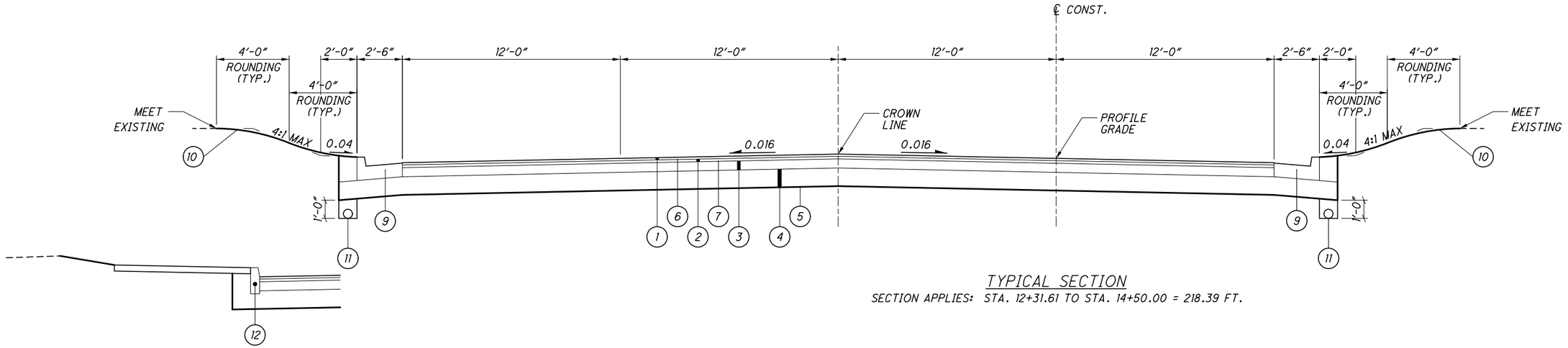
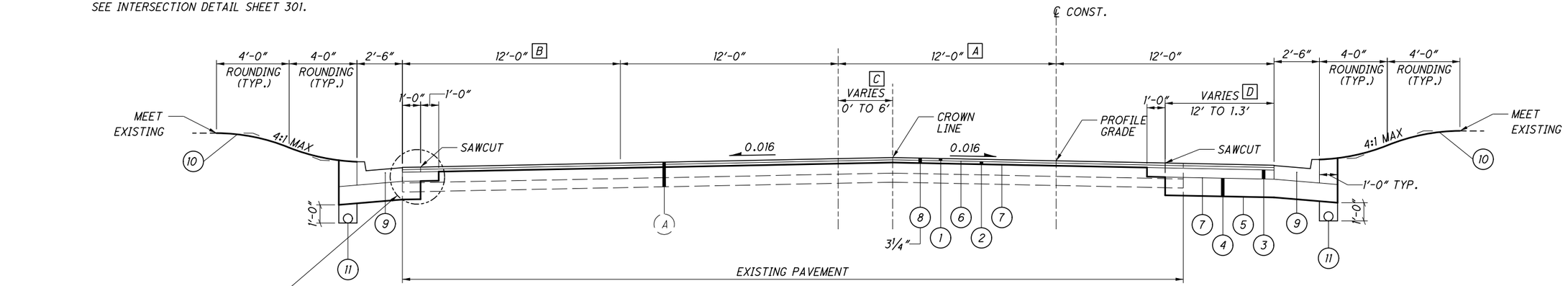


TYPICAL SECTION

SECTION APPLIES: STA. 12+31.61 TO STA. 14+50.00 = 218.39 FT.

APPLIES: STA. 11+17.11 TO STA. 11+66.16 (LT. & RT.)
SEE INTERSECTION DETAIL SHEET 301.



A VARIES: 12'-0" TO 0'-0"
STA. 14+50.45 TO STA. 15+48.23

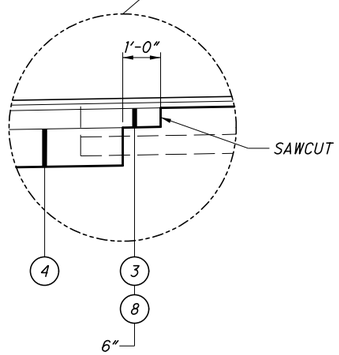
B VARIES: 12'-0" TO 0'-0"
STA. 14+50.00 TO STA. 15+10.00

TYPICAL SECTION

SECTION APPLIES: STA. 14+50.0 TO STA. 15+49.24 = 99.24 FT.

C STA. 14+50.00 TO STA. 15+10.00

D STA. 14+50.00 TO STA. 15+49.24



(A) EXISTING PAVEMENT — 10.25"± MIN. ASPHALT CONCRETE (TYP.)
6"± MIN. STONE BASE (TYP.)

(1) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M

(2) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN

(3) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 12" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2

(10) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOP SOIL

(11) ITEM 605 - ROCK CUT UNDERDRAIN

(12) ITEM 609 - CURB, TYPE 6

TYPICAL SECTIONS - HULL ROAD

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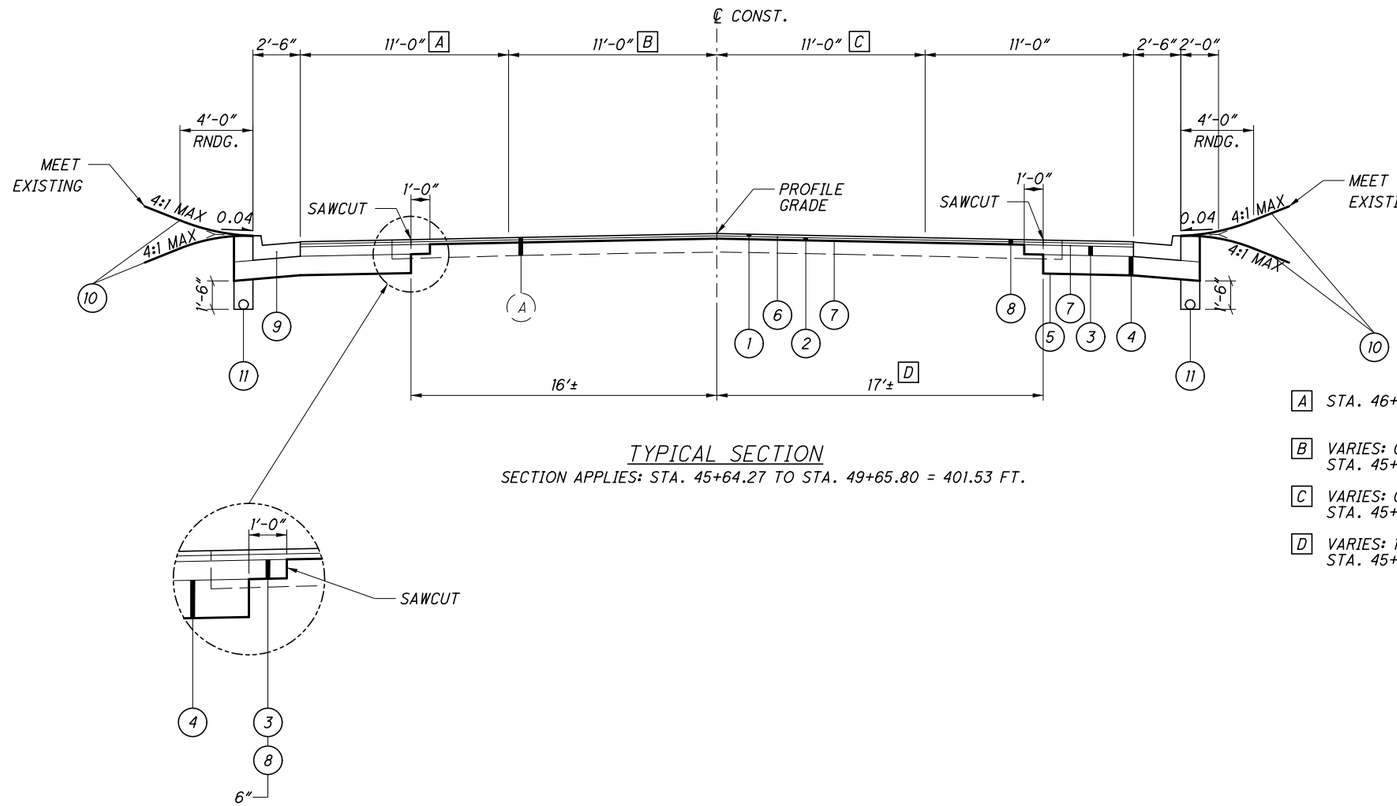

TYPICAL SECTION

SECTION APPLIES: STA. 45+64.27 TO STA. 49+65.80 = 401.53 FT.

A STA. 46+54.26 AH (ONLY)

B VARIES: 0'-0" TO 11'-0"
STA. 45+64.27 TO STA. 47+46.00

C VARIES: 0'-0" TO 11'-0"
STA. 45+64.27 TO STA. 46+63.58

D VARIES: 12'-0"± TO 17'-0"±
STA. 45+64.27 TO STA. 46+50.00±

LEGEND

(A) EXISTING PAVEMENT — 6"± MIN. ASPHALT CONCRETE (TYP.)
6"± MIN. STONE BASE (TYP.)

(1) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M

(2) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN

(3) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 12" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2

(10) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(11) ITEM 605 - 4" BASE PIPE UNDERDRAIN (SEE GENERAL NOTE SHEET 22)

TYPICAL SECTIONS - CROSSINGS ROAD

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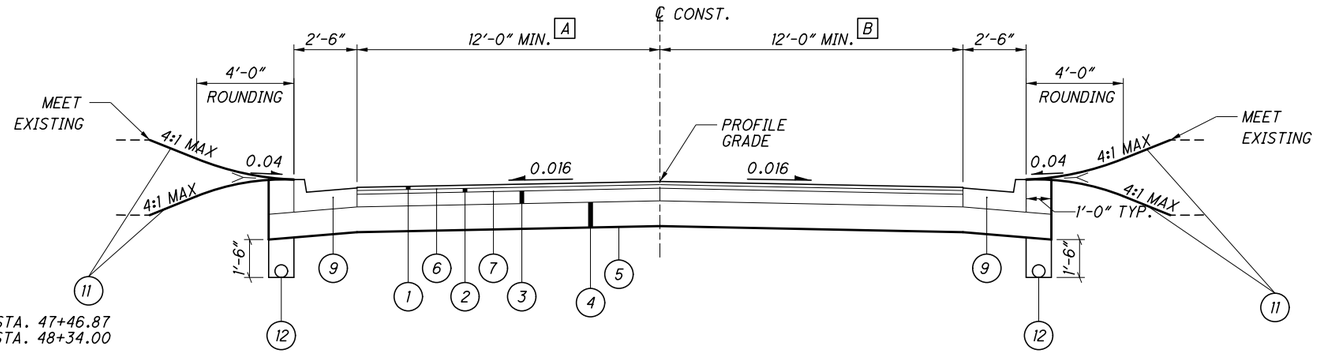

A *VARIES:*
12'-0" @ STA. 45+88.65 TO 12'-0" @ STA. 47+46.87
12'-0" @ STA. 47+46.87 TO 16'-6" @ STA. 48+34.00

B *VARIES:*
12'-0" @ STA. 45+88.65 TO 12'-0" @ STA. 47+37.13
12'-0" @ STA. 47+37.13 TO 16'-6" @ STA. 47+84.00
16'-6" @ STA. 47+84.00 TO 16'-6" @ STA. 48+21.45

TYPICAL SECTION

SECTION APPLIES: STA. 45+88.65 TO STA. 48+34.00 = 245.35 FT.

LEGEND

(A) *EXISTING PAVEMENT* — *5"± MIN. ASPHALT CONCRETE (TYP.)*, *6"± MIN. STONE BASE (TYP.)*

(1) *ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M*

(2) *ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN*

(3) *ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28*

(4) *ITEM 304 - 12" AGGREGATE BASE*

(5) *ITEM 204 - SUBGRADE COMPACTION*

(6) *ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)*

(7) *ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)*

(8) *ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE*

(9) *ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2*

(10) *ITEM 609 - CURB, TYPE 6*

(11) *ITEM 659 - SEEDING AND MULCHING*
ITEM 653 - 4" TOPSOIL

(12) *ITEM 605 - 4" BASE PIPE UNDERDRAIN (SEE GENERAL NOTE SHEET 22)*

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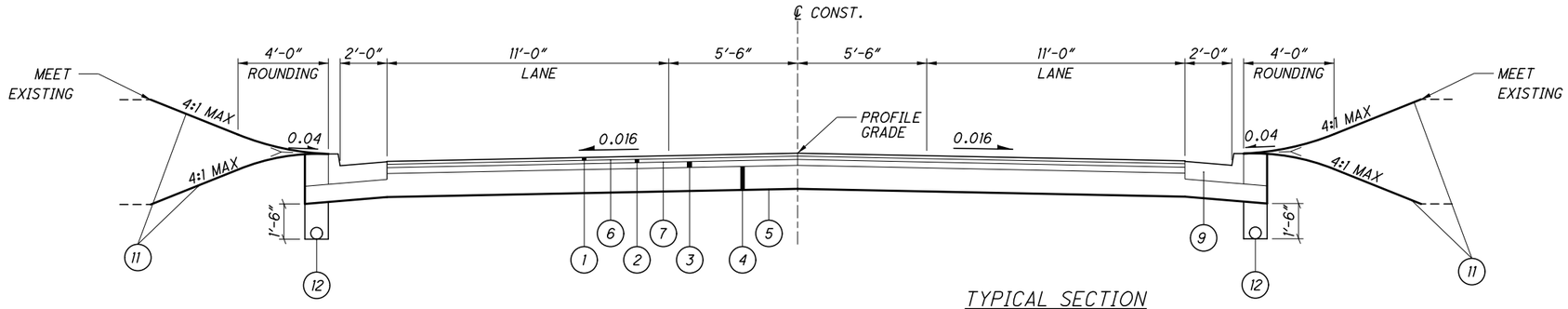
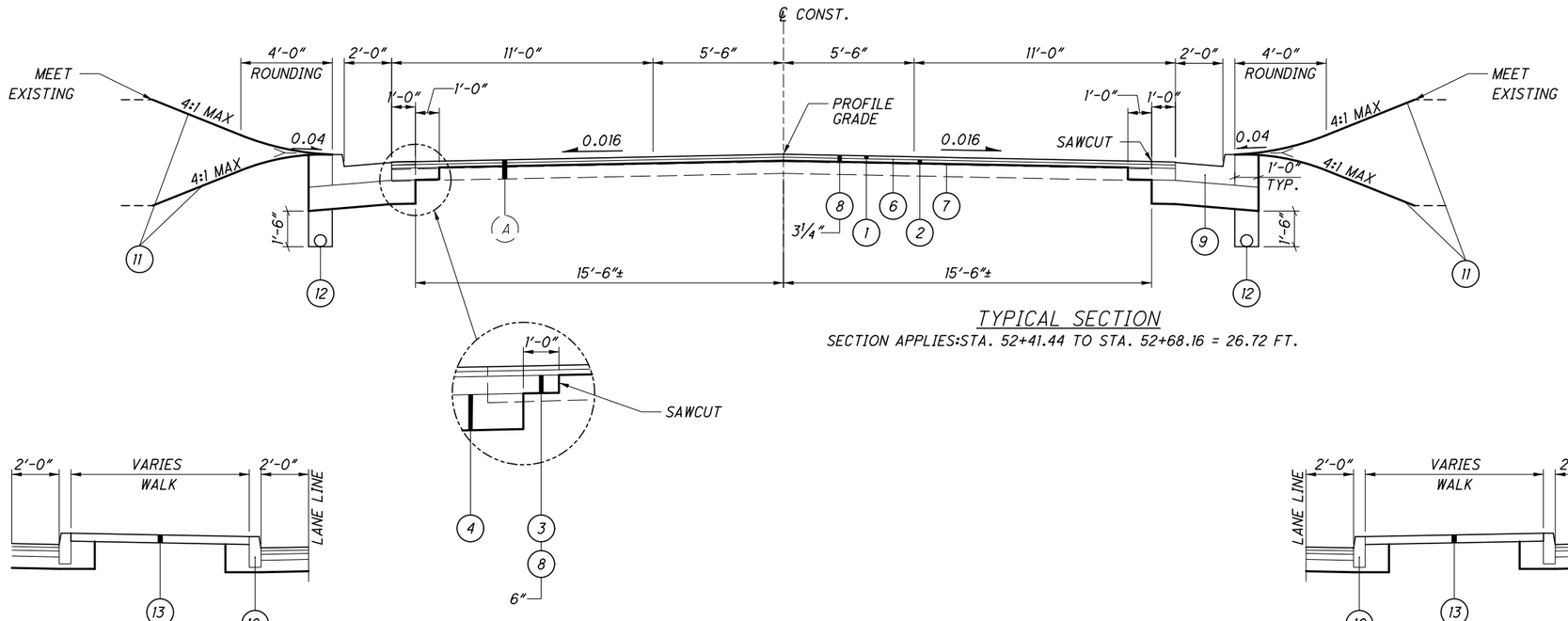
TYPICAL SECTIONS - BAY WINDS DR. / S. PARK PL.



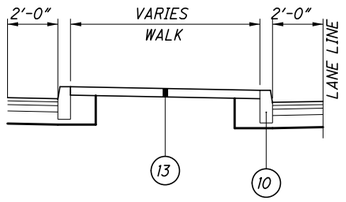
TYPICAL SECTION

SECTION APPLIES: STA. 48+34.00 TO STA. 49+54.54 = 120.54 FT.
STA. 50+16.23 TO STA. 52+41.41 = 225.18 FT.



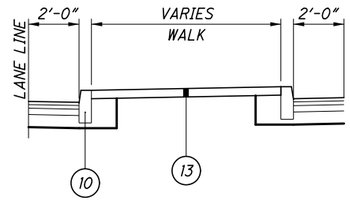
TYPICAL SECTION

SECTION APPLIES:STA. 52+41.44 TO STA. 52+68.16 = 26.72 FT.



ISLAND SECTION

SECTION APPLIES: STA. 50+24± TO STA. 50+47± (LEFT)



ISLAND SECTION

SECTION APPLIES: STA. 49+27± TO STA. 49+46± (RIGHT)

LEGEND

- (A) EXISTING PAVEMENT — 5"± MIN. ASPHALT CONCRETE (TYP.); 6"± MIN. STONE BASE (TYP.)
- (1) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M
- (2) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN
- (3) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28
- (4) ITEM 304 - 12" AGGREGATE BASE
- (5) ITEM 204 - SUBGRADE COMPACTION
- (6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)
- (7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)
- (8) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE
- (9) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
- (10) ITEM 609 - CURB, TYPE 6
- (11) ITEM 659 - SEEDING AND MULCHING; ITEM 653 - 4" TOPSOIL
- (12) ITEM 605 - 4" BASE PIPE UNDERDRAIN
- (13) ITEM 608 - 4" CONCRETE WALK

TYPICAL SECTIONS - BAY WINDS DR. / S. PARK PL.

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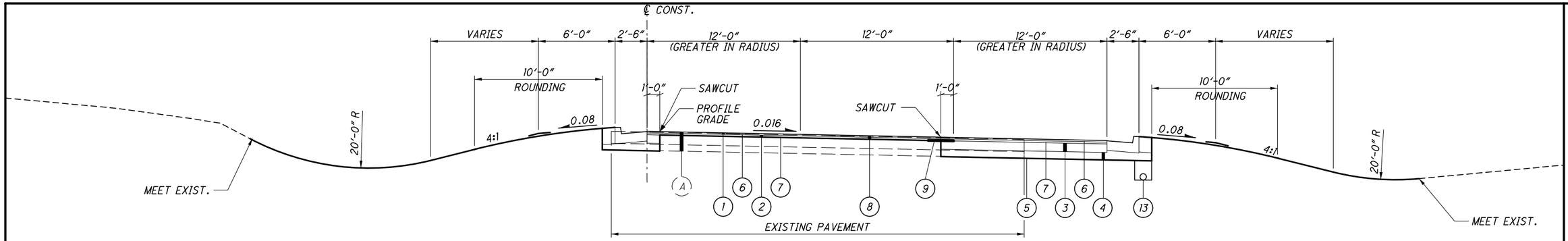


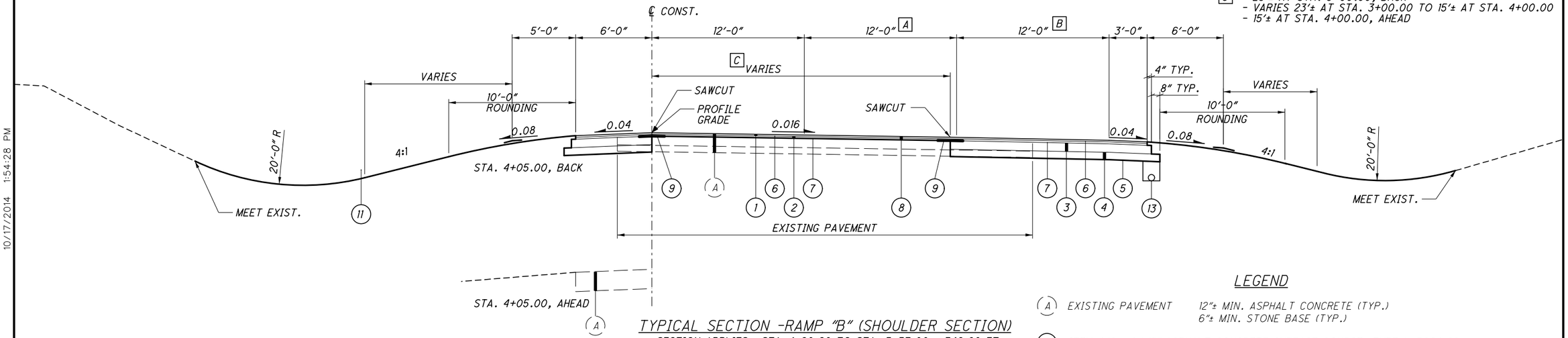
TYPICAL SECTION - RAMP "B" (CURB SECTION)

SECTION APPLIES: STA. 0+47.35 TO STA. 1+90.20 = 142.85 FT.

A VARIES: 12'-0" TO 4'-0"
APPLIES: STA. 4+87.00 TO STA. 5+37.00

B VARIES: 12'-0" TO 0'-0"
APPLIES: STA. 4+05.00 TO STA. 4+55.00

C - 23'± AT STA. 3+00.00, BACK
- VARIES 23'± AT STA. 3+00.00 TO 15'± AT STA. 4+00.00
- 15'± AT STA. 4+00.00, AHEAD



TYPICAL SECTION -RAMP "B" (SHOULDER SECTION)

SECTION APPLIES: STA. 1+90.20 TO STA. 5+37.00 = 346.80 FT.

LEGEND

(A) EXISTING PAVEMENT — 12"± MIN. ASPHALT CONCRETE (TYP.)
6"± MIN. STONE BASE (TYP.)

(1) ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22

(2) ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22

(3) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 7" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) ITEM SPECIAL - PAVEMENT REINFORCING FABRIC

(10) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2

(11) ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

(13) ITEM 605 - 4" BASE PIPE UNDERDRAIN (SEE GENERAL NOTE SHHET 22)

TYPICAL SECTIONS - RAMP B

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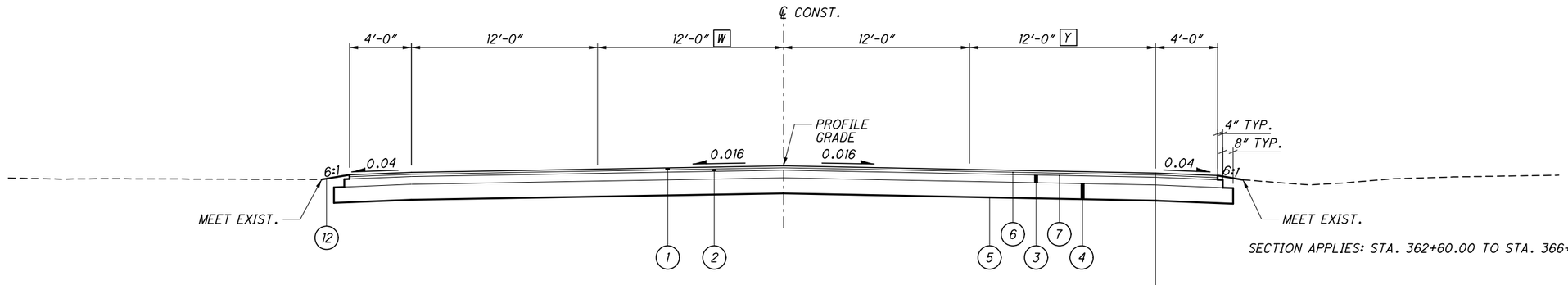
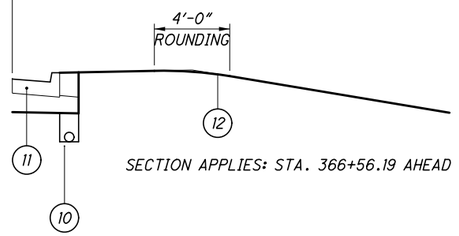
W VARIES: 0'-0" TO 12'-0"
APPLIES: STA. 362+60.00 TO STA. 366+65.00

Y 0'
STA. 362+60.00 TO STA. 366+15.00

VARIES: 0'-0" TO 12'-0"
APPLIES: STA. 366+15.00 TO STA. 366+65.00



SECTION APPLIES: STA. 366+56.19



SECTION APPLIES: STA. 366+56.19 AHEAD

TYPICAL SECTION - BOGART ROAD

SECTION APPLIES: STA. 362+60.00 TO STA. 367+24.66 = 464.66 FT.

LEGEND

1. ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M
2. ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN
3. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28
4. ITEM 304 - 12" AGGREGATE BASE
5. ITEM 204 - SUBGRADE COMPACTION
6. ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)
7. ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)
8. NOT USED
9. NOT USED
10. ITEM 605 - 4" BASE PIPE UNDERDRAIN
11. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
12. ITEM 659 - SEEDING AND MULCHING
    ITEM 653 - 4" TOPSOIL

TYPICAL SECTIONS - BOGART ROAD

TYPICAL

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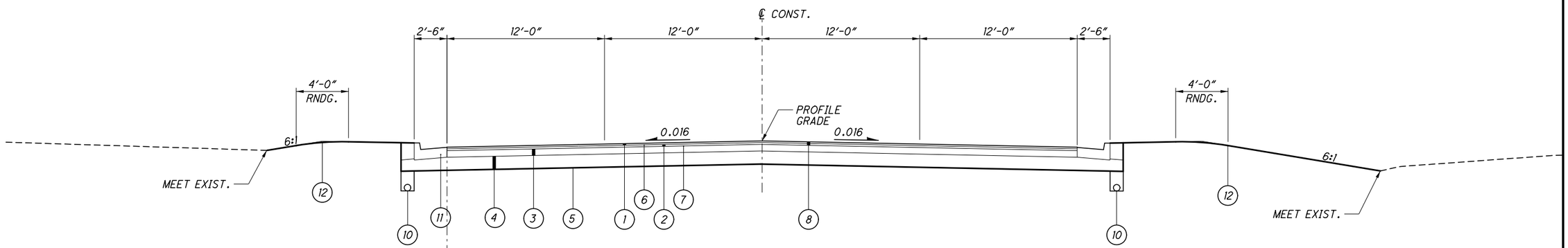

TYPICAL SECTION - BOGART ROAD

SECTION APPLIES: STA. 367+24.66 TO STA. 370+52.58 = 327.92 FT.

LEGEND

(1) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M

(2) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN

(3) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 12" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) NOT USED

(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

TYPICAL SECTIONS - BOGART ROAD

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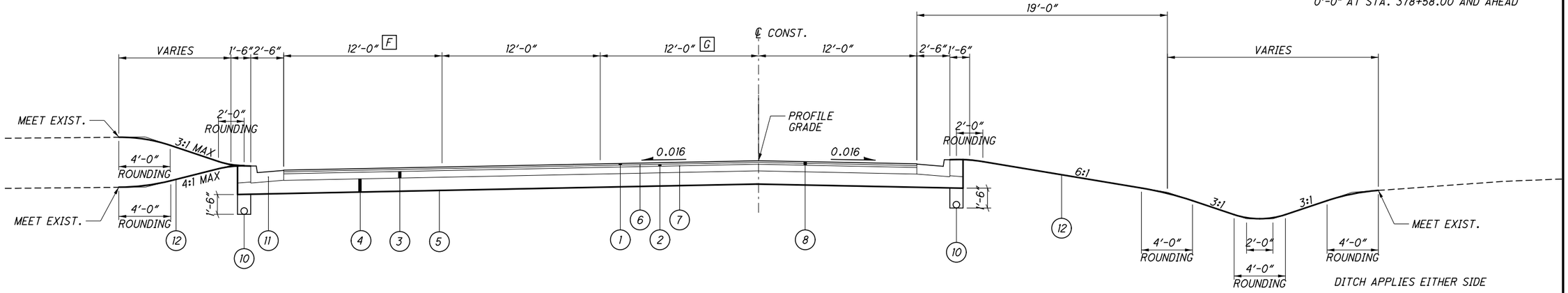
F VARIES: 12'-0" AT STA. 374+03.00 TO 0'-0" AT STA. 374+53.00 AND AHEAD

G VARIES: 12'-0" AT STA. 374+53.00 TO 0'-0" AT STA. 378+58.00 AND AHEAD



TYPICAL SECTION - BOGART ROAD

SECTION APPLIES: STA. 371+18.93 TO STA. 378+93.07 = 774.14 FT.

LEGEND

(1) ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG70-22M

(2) ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN

(3) ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-28

(4) ITEM 304 - 12" AGGREGATE BASE

(5) ITEM 204 - SUBGRADE COMPACTION

(6) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, SURFACE COURSE (0.04 GAL/SQ YD)

(7) ITEM SPECIAL - TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE (0.075 GAL/SQ YD)

(8) ITEM 254 - 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE

(9) NOT USED

(10) ITEM 605 - 4" BASE PIPE UNDERDRAIN

(11) ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2

(12) ITEM 659 - SEEDING AND MULCHING
ITEM 653 - 4" TOPSOIL

TYPICAL SECTIONS - BOGART ROAD

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UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

Columbia Gas of Ohio
Attn: Damage Prevention Center
1600 Dublin Road
Columbus, Ohio 43215
614-460-6800

Columbia Gas of Ohio
Attn: Kurt Saum
1800 Broad Ave.
Findlay, Ohio 45840
419-427-3126

AT&T Ohio
Attn: Rob Fey
130 N. Erie Street, Room 206
Toledo, Ohio 43604
419-245-5004

Frontier Communications
Attn: Scott Wetzel
83 Townsend Avenue
Norwalk, Ohio 44857
419-744-3617

Ohio Edison Co.
Attn: Jim Rohrbacher
2508 W. Perkins Avenue
Sandusky, Ohio 44870
419-627-6881

Ohio Edison Transmission
Attn: Carlos A. Munoz
76 South Main Street
Akron, Ohio 44308
330-384-4835

Buckeye Cablesystem
Attn: Douglas Vaughn
4818 Angola Road
Toledo, Ohio 43615
419-724-3769

Perkins Township
5420 Milan Road
Sandusky, Ohio 44870
419-609-1433
Attn: Eric B Dodrill, P.E., P.S.

Erie County Engineer's Office
2700 Columbus Avenue
Sanndusky, OH 44870
419-627-7710

Erie County D.O.E.S.
Attn: Bill Fleck
554 River Road
P.O. Box 469
Huron, Ohio 44839
419-433-7303 x224

City of Sandusky
Attn: Jane Cullen
222 Meigs Street
Sandusky, Ohio 44870
419-627-5932

NASA Glenn Research Center
Plumbrook
21000 Brookpark Road
Cleveland, OH 44135
Attn: Robert Puzak
216-433-2331

UTILITY SERVICES

ALL SERVICES ARE NOT SHOWN ON THE PLANS, HOWEVER, THE CONTRACTOR SHALL ASSUME EACH BUSINESS/RESIDENCE IS SERVED BY THE ABOVE UTILITIES AND THE COSTS TO WORK AROUND THESE SERVICES SHALL BE INCLUDED IN THE COST OF THE PROJECT.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONAING ON ODOT PROJECTS. SEE SHEE 4 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING:

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID 03

HORIZONTAL POSITIONING:

REFERENCE FRAME: NAD83 (CORS96) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONIC CONFORMAL COORDINATE SYSTEM: OHIO STATE PLANE, NORTH COMBINED SCALE FACTOR:

1.000071084

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR:

1 METER = 3.281066548 U.S. SURVEY FEET.

ITEM 204, PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING:

ITEM 204, PROOF ROLLING 5 HOURS

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 301, ASPHALT CONCRETE BASE, PG64-28 40 CU YD

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 10 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. SEE STANDARD CONSTRUCTION DRAWING DM-1.4 FOR TRENCH WIDTH FORMULA AND CALCULATION.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ITEM 201 CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	1		1
30"	5	2	7

ITEM 202 - REMOVAL MISC.: COMMERCIAL SIGN

THIS ITEM SHALL CONSIST OF REMOVAL AND DISPOSAL OF COMMERCIAL SIGNS WITH CONCRETE FOUNDATIONS. SIGN FOUNDATIONS SHALL BE REMOVED TO A MINIMUM OF ONE FOOT BELOW THE FINISHED SUBGRADE OR GROUND SURFACE. ELECTRICAL SERVICE TO THE SIGN SHALL ALSO BE REMOVED BY DISCONNECTING AND REMOVING CABLES AT THE SERVICE PULLBOX. BACKFILLING AND RESTORATION OF SURFACES AND DISPOSAL OF SURPLUS MATERIAL SHALL BE IN ACCORDANCE WITH 202.02. ALSO INCLUDED WITH THE SIGN REMOVAL SHALL BE ALL SUPPORTS, MISCELLANEOUS ITEMS ON THE SUPPORTS AND/OR SIGNS, AND DECORATIVE PLANTERS AT THE BASE OF THE SIGN. COMMERCIAL SIGN REMOVAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH SIGN ASSEMBLY REMOVED.

ITEM 202 BUILDING DEMOLISHED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE DEMOLITION OF THE ERIE COMMUNITY FEDERAL CREDIT UNION COMMERCIAL BUILDING AT 4416 MILAN AVENUE (STA. 140+50 +/- LT.) AND ALL SIGNS, LIGHT POLES AND RELATED FOUNDATIONS AND WIRING ON THE PROPERTY. SIGN REMOVALS SHALL CONFORM TO THE "ITEM 202, REMOVAL MISC.: COMMERCIAL SIGNS" NOTE ABOVE, BUT PAYMENT IS INCLUDED IN THE LUMP SUM PRICE FOR THIS ITEM. PARKING LOT PAVEMENT REMOVAL AT THIS SITE IS ITEMIZED AND PAID FOR SEPERATELY.

ENVIRONMENTAL COMMITMENTS

THIS PROJECT IS WITHIN THE KNOWN SUMMER BREEDING RANGE OF THE FEDERAL ENDANGERED INDIANA BAT. UNAVOIDABLE CUTTING OF TREES DEFINED AS POTENTIAL HABITAT FOR THE INDIANA BAT (I.E. LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES) WILL BE PERFORMED ONLY BEFORE APRIL 15 OR AFTER SEPTEMBER 15 WHEN THE SPECIES WOULD NOT BE USING SUCH HABITAT.

THE SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LOCATION AND DESIGN MANUAL AND STANDARD DRAWINGS WILL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

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GENERAL NOTES - SHEET 1 OF 5

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608 CURB RAMP, AS PER PLAN

608 CURB RAMP, AS PER PLAN SHALL BE CONSTRUCTED PER STANDARD DRAWING BP-7.1 BUT WITHOUT DETECTABLE WARNINGS AT THE LOCATIONS INDICATED.

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN

THE BINDER FOR THIS ITEM SHALL BE PG70-22M

ITEM SPECIAL- TACK COAT, TRACKLESS TACK, SURFACE COURSE
ITEM SPECIAL- TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND TREATING A PAVED SURFACE WITH A TRACKLESS TACK ASPHALT EMULSION.

ALTERNATE PRODUCTS TO BE USED MUST BE ON FILE WITH THE NEW PRODUCT ENGINEER AT THE TIME OF THE ADVERSTISEMENT DATE OF THE PROJECT PLANS. PLEASE CONTACT BRAD YOUNG, ODOT NEW PRODUCT ENGINEER, 614-351-2882.

THIS WORK IS CONSIDERED AN EXPERIMENTAL CONSTRUCTION FEATURE FOR EVALUATION OF PRODUCTS THAT ARE ON FILE WITH THE NEW PRODUCT ENGINEER.

MEET ALL REQUIREMENTS OF ODOT 407 TACK COAT IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRED BY THE CONTRACT, EXCEPT AS NOTED BELOW.

A MANUFACTURER'S REPRESENTATIVE MUST BE AT THE PROJECT SITE DURING THE FIRST TWO DAYS OF APPLICATION OF TRACKLESS TACK.

MATERIAL: IF USING BLACKLIDGE TRACKLESS TACK THE MATERIAL WILL CONFORM TO THE FOLLOWING TYPICAL PHYSICAL PROPERTIES:

PARAMETER	TEST METHOD	MIN.	MIX.
SAYBOLT FUROL VISCOSITY, SFS @ 25°C	AASHTO T59	15	100
STORAGE STABILITY, 24 HRS, %	AASHTO T59	--	1
STORAGE STABILITY, 5 DAYS, %	AASHTO T59	--	5
RESIDUE BY DISTILLATION, %	AASHTO T59	50	--
OIL DISTILLATE, %	AASHTO T59	--	1
SIEVE TEST, %	AASHTO T59	--	0.3
TEST ON RESIDUE:			
PENETRATION, @ 25°C,	AASHTO T49	--	20
SOFTENING POINT RANGE DEG C	AASHTO T53	65	--
SOLUBILITY,%	AASHTO T44	97.5	--
ORIGINAL BINDER DSR @ 82 DEG C G*/SIN DELTA,10 RAD/SEC	AASHTO T315	1	--

FOR TRACKLESS TACK OTHER THAN BLACKLIDGE TRACKLESS TACK, THE MATERIAL WILL CONFORM TO THE PHYSICAL PROPERTIES SUPPLIED BY THE NEW PRODUCT ENGINEER FOR THE TESTS LISTED BELOW:

PARAMETER	TEST METHOD
SAYBOLT FUROL VISCOSITY, SFS @ 25°C	AASHTO T59
STORAGE STABILITY, 24 HRS, %	AASHTO T59
STORAGE STABILITY, 5 DAYS, %	AASHTO T59
RESIDUE BY DISTILLATION, %	AASHTO T59
OIL DISTILLATE, %	AASHTO T59
SIEVE TEST, %	AASHTO T59
TEST ON RESIDUE:	
PENETRATION, @ 25°C,	AASHTO T49
SOFTENING POINT RANGE DEG C	AASHTO T53
SOLUBILITY,%	AASHTO T44
ORIGINAL BINDER DSR @ 82°C G*/SIN DELTA,10 RAD/SEC	AASHTO T315

ACCEPTANCE AND SAMPLING OF MATERIALS: FOR ALL TRACKLESS TACK SUPPLY CERTIFIED TEST DATA FROM AN INDEPENDENT LABORATORY TO THE ENGINEER AND TO THE DISTRICT LABORATORY SHOWING THE TRACKLESS TACK SUPPLIED WAS TESTED FOR AND MEETS THE PROPERTIES SUPPLIED BY THE NEW PRODUCT ENGINEER.

DURING CONSTRUCTION, ODOT PERSONNEL WILL SAMPLE AND SUPPLY TO THE DISTRICT TEST LAB A MINIMUM OF 2 QUARTS OF TRACKLESS TACK SAMPLED FROM THE DISTRIBUTOR ON THE FIRST DAY OF APPLICATION. CLEARLY MARK ON THE SAMPLES THE MANUFACTURER'S NAME, PROJECT NUMBER, AND THE WORDS "TRACKLESS TACK".

ADDITIONAL SAMPLING OF BLACKLIDGE TRACKLESS TACK WILL FOLLOW THE REQUIREMENTS OF ITEM 407. FOR ALTERNATE TRACKLESS TACK MATERIAL, 2 QUARTS OF MATERIAL WILL BE SAMPLED EACH DAY THE MATERIAL IS USED.

EQUIPMENT: SEE MANUFACTURER'S REPRESENTATIVE FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF PREVIOUSLY USED MATERIAL CHARGE IS DIFFERENT THAN THE PROPOSED MATERIAL.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE TRACKLESS TACK WITH A DISTRIBUTOR. IF TRACKLESS TACK IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL.

ENSURE ALL NOZZLES AND SPRAY PATTERNS ARE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. PLACE THE ANGLE OF THE NOZZLE AT A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE AND DISTRIBUTOR AND NOZZLE SETTINGS.

APPLY AT A RATE OF 0.04 TO 0.1 GALLONS PER SQUARE YARD. DO NOT DILUTE TRACKLESS TACK. RECOMMENDED APPLICATION TEMPERATURE IS 160ºF TO 180ºF. DO NOT EXCEED 180ºF. THE ENGINEER AND MANUFACTURER'S REPRESENTATIVE WILL APPROVE THE QUANTITY, RATE OF APPLICATION, TEMPERATURE, DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE TRACKLESS TACK COAT. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT.

PERFORMANCE OF TRACKLESS TACK: FOR ANY TRACKLESS TACK USED SUPPLY DATA FOR SHEAR AND TENSILE BOND STRENGTH ACCORDING TO METHODS DESCRIBED IN VIRGINIA TRANSPORTATION RESEARCH COUNCIL REPORT VTRC 09-R21. RANDOMLY TAKE 6-4 INCH DIAMETER CORES FROM THE PROJECT AND PERFORM 3 SHEAR AND 3 TENSILE BOND STRENGTH TESTS. BE SURE CORES TAKEN INCLUDE BOTH AN ASPHALT LAYER ABOVE AND ASPHALT LAYER BELOW THE TRACKLESS TACK LAYER.

DETERMINE THE TIME TO SET FOR THE MATERIAL TO BECOME TRACKLESS. THE ENGINEER WILL REPORT ANY ISSUES WITH EXCESSIVE TIME TO SET, OR AFTER SET ISSUES WITH STICKINESS, OR PICKUP OF THE TACK TO THE DET AND NEW PRODUCT ENGINEER, BRAD YOUNG 614-351-2882.

IF THE CERTIFIED TEST DATA FAILS TO MEET THE LAB TESTING CRITERIA, OR FIELD SAMPLES FAIL TO MEET THE LAB TEST CRITERIA, OR THE TRACKLESS TACK FAILS TO PERFORM SATISFACTORILY IN THE FIELD, AS NOTED ABOVE, THE CONTRACTOR WILL BE REQUIRED TO REPLACE AND SUPPLY BLACKLIDGE TRACKLESS TACK FOR THE REMAINDER OF THE PROJECT AT NO COST TO THE DEPARTMENT.

ANY FAILING EXPERIMENTAL TRACKLESS TACK PRODUCT WILL BE REMOVED FROM THE NEW PRODUCT ENGINEER'S LIST.

IN THE EVENT THE PRODUCT FAILS TO PERFORM TO THE SATISFACTION OF THE DEPARTMENT, THE MANUFACTURER MAY PERFORM THE FOLLOWING ITEMS IN ORDER TO BE CONSIDERED FOR FUTURE EXPERIMENTAL CONSTRUCTION FEATURE PROJECTS:

1. SUBMIT IN WRITING TO THE DEPARTMENT THE REASON(S) WHY PRODUCT FAILED TO PERFORM AND DETAIL CHANGES THAT WILL BE MADE TO ELIMINATE THE CAUSE(S) OF FAILURE, AND 2. PROPOSE CHANGES TO THE PRODUCT'S SPECIFICATIONS, AND 3. SUBMIT SAMPLES OF THE REDEVELOPED PRODUCT TO THE LABORATORY FOR TESTING TO THE NEW SPECIFICATIONS, AND 4. DEMONSTRATE TO THE DEPARTMENT SUCCESSFUL USE OF THE MATERIAL ON AT LEAST ONE NON-ODOT PROJECT.

WHEN THE ABOVE ITEMS ARE COMPLETED TO THE DEPARTMENT'S SATISFACTION, THE REDEVELOPED AND FIELD TESTED PRODUCT MAY BE PUT BACK ON FILE WITH THE NEW PRODUCT ENGINEER AND EVALUATED ON FUTURE ODOT PROJECTS USING THE EXPERIMENTAL CONSTRUCTION FEATURE PROCESS.

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SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE THE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, SEEDING AND MULCHING	38,504 SQ YD
ITEM 659, TOPSOIL	4,274 CU YD
ITEM 659, SOIL ANALYSIS TEST	4 EACH
ITEM 659, REPAIR SEEDING AND MULCHING	1,925 SQ YD
ITEM 659, INTER-SEEDING	1,925 SQ YD
ITEM 659, COMMERCIAL FERTILIZER	5.37 TON
ITEM 659, WATER	213 MGAL
ITEM 659, LIME	8 ACRES
ITEM 660, SODING UNSTAKED	61 SQ YD

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED/DISTURBED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

REMOVAL OF OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY

THE CONTRACTOR SHALL NOT REMOVE PRIVATE LIGHT POSTS, FLAG POLES, SPRINKLER SYSTEMS, UTILITY MARKERS, SHRUBBERY, FENCE, GUARDRAIL OR OTHER OBSTRUCTION WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. WHEN APPROVAL IS GRANTED, THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE OBSTRUCTION AND ALLOW THE OWNER TWO (2) WEEKS TO REMOVE AND/OR RELOCATE IT OUTSIDE OF THE RIGHT-OF-WAY. IF THE OWNER OF THE OBSTRUCTION DOES NOT REMOVE OR RELOCATE IT WITHIN TWO (2) WEEKS, THE CONTRACTOR SHALL REMOVE THE OBSTRUCTION AT THE DIRECTION OF THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT ITEM.

PAYMENT FOR THE REMOVAL OF ALL EXISTING OBSTRUCTIONS WHICH ARE NOT ITEMIZED IN THE PLANS AND WHICH WOULD NORMALLY BE REMOVED FOR THE INSTALLATION OF NEW WORK, INCLUDING NEW CONDUIT INSTALLATION, SHALL BE REMOVED AND INCLUDED IN THE UNIT PRICE FOR THE PERTINENT ITEM OF NEW WORK.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

UNRECORDED STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION	150 FT.
611, 6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	150 FT.
611, 8" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION	150 FT.
611, 8" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	150 FT.

ITEM 611, AS PER PLAN

ALL CAST-IN-PLACE AND PRECAST DRAINAGE STRUCTURES SHALL HAVE THE ABILITY TO BE FIELD ADJUSTED UP OR DOWN A MINIMUM OF SIX (6) INCHES FROM PLAN ELEVATION IN PAVEMENT AND A MINIMUM OF TWELVE (12) INCHES OTHERWISE. ANY ASSOCIATED COSTS SHALL BE INLCUDED IN THE PERTINENT 611 ITEM. NO ADDITIONAL COST SHALL BE INCURED BY THE STATE FOR ANY LABOR, EQUIPMENT OR MATERIALS NECESSARY TO RAISE OR LOWER THE STRUCTURES WITHIN THIS REQUIRED AMOUNT.

SANITARY SEWER AND WATER WORK

THE EXISTING PUBLIC SANITARY SEWER COLLECTION AND WATER DISTRIBUTION SYSTEMS WITHIN THE LIMITS OF THE PROJECT ARE OWNED BY EITHER THE CITY OF SANDUSKY, IF WITHIN CITY CORPORATION LIMITS, OR ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES IF NOT IN CITY CORPORATION LIMITS. ALL PROPOSED WORK ON THESE SYSTEMS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS OF THE RESPECTIVE SYSTEM OWNER.

THE CITY OF SANDUSKY WATER AND SANITARY SEWER STANDARDS MAY BE VIEWED AT THE CITY OF SANDUSKY ENGINEERS OFFICE 222 MEIGS STREET, SANDUSKY, OHIO 44870, 419-627-5829

THE ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES STANDARD DETAILS AND SPECIFICATIONS MAY BE VIEWED AT: http://www.eriecounty.oh.gov/departments-and-agencies/environmental-resources/department-of-environmental-services/

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GENERAL NOTES - SHEET 3 OF 5

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UNRECORDED SANITARY SEWER CONNECTIONS

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS SUCH AS SANITARY, WASTEWATER, CURTAIN/GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSTRUCTED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTION OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. ALL SANITARY AND SANITARY WASTEWATER CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B, FOR SANITARY	200 FT.
611, 6" CONDUIT, TYPE C, FOR SANITARY	200 FT.
611, 8" CONDUIT, TYPE B, FOR SANITARY	200 FT.
611, 8" CONDUIT, TYPE C, FOR SANITARY	200 FT.

DRAINAGE

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING/IMPROVING EXISTING DRAINAGE PATTERNS IN ALL WORK AREAS DURING AND AFTER CONSTRUCTION, ON AND OFF PAVEMENT.

DRAINAGE STRUCTURES

THE PLANS INDICATE LOCATIONS WHERE DRAINAGE STRUCTURE FRAMES AND COVERS/GRATES SHALL BE REPLACED WHILE SALVAGING THE REMAINDER OF THE DRAINAGE STRUCTURE. IF THE CONDITION OF THE REMAINING STRUCTURE IS NOT SOUND, AS DETERMINED BY THE ENGINEER, THE ENTIRE STRUCTURE SHALL BE REPLACED. IT IS THE INTENT OF THE ENGINEER TO REPLACE EXISTING STRUCTURES IN KIND MATCHING THE WIDTH OF THE EXISTING INLETS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CATCH BASIN/INLET TYPE AND SIZE AND TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER FOR THE WORK DESCRIBED ABOVE:

ITEM 611, CATCH BASIN, NO. 3, AS PER PLAN	1 EA
ITEM 611, CATCH BASIN, NO. 3A, AS PER PLAN	1 EA
ITEM 611, INLET, NO. 2-A-6, AS PER PLAN	3 EA
ITEM 611, INLET, NO. 2-A-8, AS PER PLAN	1 EA
ITEM 611, INLET, NO. 2-A-10, AS PER PLAN	1 EA

THE ABOVE PAY ITEMS SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS TO INSTALL THE ENTIRE STRUCTURE, INCLUDING THE FRAME AND COVER/GRATE. IF IT IS DETERMINED THAT, DUE TO EXISTING CONDITION, AN ENTIRE STRUCTURE REQUIRES REPLACEMENT RATHER THAN JUST THE FRAME AND COVER/GRATE, THE ORIGINAL BID ITEM SHALL BE NON-PERFORMED AND REPLACED WITH THE APPROPRIATE BID ITEM ABOVE. THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL OF EXISTING CASTINGS. STRUCTURES DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW DRAINAGE STRUCTURES AT THE EXPENSE OF THE CONTRACTOR.

EXISTING UNDERDRAINS

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 611, 4" CONDUIT, TYPE F, AS PER PLAN	200 FT
ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAINS	200 FT

ITEM 611, 4" CONDUIT, TYPE F, AS PER PLAN

THE PLANS INDICATE LOCATIONS WHERE PROPOSED UNDERDRAINS SHALL BE TIED IN TO EXISTING DRAINAGE STRUCTURES. THE COST FOR ALL LABOR, EQUIPMENT AND MATERIALS TO MAKE THIS CONNECTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 611, 4" CONDUIT, TYPE F, AS PER PLAN.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

MAILBOXS WITHIN WALK SHALL BE MOUNTED IN A CAST IN PLACE PVC SLEEVE, IN THE WALK, COST INCLUDED WITH THE MAILBOX SUPPORT.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

UNSUITABLE FOUNDATION SOILS

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF THE PROPOSED PAVEMENT, THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL MEETING THE REQUIREMENTS OF 203.02R. THE LOCATIONS AND DIMENSIONS WILL BE AS DETERMINED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 204, EXCAVATION OF SUBGRADE	750 CU YD
ITEM 204, GRANULAR EMBANKMENT	750 CU YD
ITEM SPECIAL, GEOGRID, TENSAR TX-1300, OR APPROVED EQUAL	2,000 SQ YD

611 INLET FRAME AND GRATE, AS PER PLAN

THE DETERIORATED TOP SLAB OF EXISTING INLETS SHALL BE REPLACED WITH A NEW TOP SLAB AND METAL COVER AND FRAME PER THE STANDARD DRAWINGS. THE TOP OF THE NEW SLABS SHALL BE FINISHED TO BECOME AN INTEGRAL PART OF THE PROPOSED SIDEWALK. EXISTING METAL CASTINGS IN GOOD CONDITION MAY BE SALVAGED AND REUSED. PAYMENT UNDER THIS ITEM INCLUDES THE COST OF REMOVING THE EXISTING TOP, CLEANING THE INLET OF ANY DEBRIS, AND INSTALLING THE NEW TOP SLAB PER THE STANDARD DRAWINGS. RECONSTRUCTION OF INLET SIDEWALLS WILL BE PAID FOR SEPERATELY AS "ITEM 611 - INLET RECONSTRUCTED TO GRADE" WHERE REQUIRED.

CALCULATED JLT CHECKED GAB

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UTILITY LEGEND

ABBREVIATIONS:

— — — — — — — UNK. UNKNOWN FUNCTION UTILITY PIPE

- - - - - - - - - - - - (DATUR)

(COS) CITY OF SANDUSKY

CTV CABLE TV

GTS GAS TEST STATION

MTD MULTIPLE TILE DUCT

PD PLASTIC DUCT

(PRIVATE) PRIVATE OWNER

SFM SANITARY FORCE MAIN

SWT SEWER TILE DUCT

TD TELEPHONE DUCT

TR TRAFFIC CONTROL

NAP NO ASSOCIATED PIPING FOUND FROM STRUCTURE TO ANY OTHER UTILITY OR STRUCTURE.

(FO) FIBER OPTIC

(AATFI) ABANDONED ACCORDING TO FIELD INSPECTION

(AATUR) ABANDONED ACCORDING TO UTILITY RECORDS

(DATFI) DEPICTED ACCORDING TO FIELD INSPECTION, NO ELECTRONIC INFORMATION WAS OBTAINED.

(DATUR) DEPICTED ACCORDING TO UTILITY RECORDS, NO ELECTRONIC INFORMATION WAS OBTAINED.

(QL-C) DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.

(QL-D) DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.

E——— UTILITY END POINT

EOI END OF ELECTRONIC DESIGNATING INFORMATION

EORI END OF RECORD INFORMATION

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "QL-C" OR "QL-D" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SO-DEEP, INC. EXPRESSLY DISCLAIMS RESPONISIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDING TO RECORDS.

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" UNLESS OTHERWISE NOTED.

SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS, AND HAS NOT BEEN VERIFIED.

SIZE INFORMATION IS UNAVAILABLE UNLESS OTHERWISE SHOWN ON PLAN SHEETS.

TRAFFIC CONTROL SENSORS IN PAVING ARE NOT SHOWN HEREON.

UNLESS OTHERWISE NOTED ON PLAN SHEETS:

__ ALL CATV LINES ARE OWNED BY BUCKEYE CABLESYSTEM.
__ ALL ELECTRIC LINES ARE OWNED BY OHIO EDISON.
__ ALL GAS LINES ARE OWNED BY COLUMBIA GAS.
__ ALL TELEPHONE LINES ARE OWNED BY AT&T.
__ ALL WATER LINES ARE OWNED BY ERIE COUNTY.
__ ALL TRAFFIC CONTROL LINES ARE OWNED BY O.D.O.T. DISTRICT 3.

QUALITY LEVEL "A" - LOCATING: PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. PRECISE HORIZONTAL AND VERTICAL POSITIONS, AS WELL AS OTHER UTILITY ATTRIBUTES ARE SHOWN ON THE FINAL WORK PRODUCT. ACCURACY IS TYPICALLY SET AT 0.05' VERTICAL, AND TO APPLICABLE HORIZONTAL SURVEY STANDARDS.

QUALITY LEVEL "B" - DESIGNATING: THIS INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. "QUALITY LEVEL B" DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.

QUALITY LEVEL "C" - SURFACE VISIBLE FEATURE SURVEY: INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

QUALITY LEVEL "D" - EXISTING RECORDS: INFORMATION DERIVED SOLELY FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

PARKING DISRUPTION LIMITATIONS

THE CONTRACTOR IS TO SCHEDULE THEIR WORK SUCH THAT FULL ACCESS IS PROVIDED TO THE AFFECTED BUSINESS. FOR THE BUSINESSES/PARCELS LISTED IN THE FOLLOWING TABLE, THE CONTRACTOR IS TO KEEP ANY DISRUPTION OF PARKING AND BUSINESS TRAFFIC FLOW WITHIN THE TEMPORARY RIGHT OF WAY TO A MINIMUM. THIS LIMITATION DOES NOT INCLUDE THE DRIVEWAY APRON WORK INSIDE THE PUBLIC RIGHT OF WAY. THIS LIMITATION ALSO DOES NOT INCLUDE ANY OF THE SEEDING AND MULCHING WORK. PARKING/TRAFFIC FLOW DISRUPTION WILL BE ALLOWED ONLY ONCE UNLESS NOTED AND WILL BE LIMITED TO THE MAXIMUM DURATION AS LISTED IN THE TABLE BELOW. A DISINCENTIVE VALUE IS INCLUDED IN THE LIST AND IS APPLICABLE TO EACH STIPULATION. IN THE EVENT THE TIME DURATION DATE IS EXCEEDED, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AMOUNT EQUAL TO THAT SHOWN IN THE TABLE FOR EACH CALENDAR DAY THE STIPULATED MAXIMUM DURATION IS EXCEEDED. THE CONTRACTOR SHALL ALSO COORDINATE THIS WORK WITH THE RESPECTIVE PROPERTY/BUSINESS OWNER A MINIMUM OF FOURTEEN (14) CALENDAR DAYS PRIOR TO BEGINNING ANY WORK.

DRIVEWAY RECONSTRUCTION

THE INTENT IS TO MINIMIZE THE DURATION THAT A DRIVEWAY IS BEING RECONSTRUCTED. THE MAXIMUM DURATION RECONSTRUCTION OF A DRIVEWAY CAN OCCUR SHALL BE 7 CALENDAR DAYS, UNLESS THE DRIVEWAY IS INCLUDED IN THE PARKING DISRUPTION LIMITATION NOTE. IF THE DRIVEWAY IS INCLUDED UNDER THE PARCEL LISTING FOR THE PARKING DISRUPTION LIMITATION NOTE, THEN THE MAXIMUM DURATION STIPULATED IN THAT NOTE APPLIES ONLY IF THE DRIVEWAY IS ADJACENT TO THE WORK STIPULATED IN THE PARKING DISRUPTION LIMITATION NOTE. IN THE EVENT THE TIME DURATION IS EXCEEDED, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AMOUNT OF $2500 PER CALENDAR DAY BEYOND THE 7 CALENDAR DAY LIMIT.

PARCEL 200 CURB WORK

THE INTENT OF THE PROPOSED CURB PLACED AT THE DRIVEWAY TO BE REMOVED AT STA. 143+31, LT. IS TO CENTERED THE 14 FEET OF PROPOSED CURB ON THE EXISTING 19 FOOT DRIVEWAY ALLOWING ANY STORM WATER TO DRAIN OFF THE REMAINING DRIVE AND OVER THE PROPOSED SIDEWALK.

PARCEL 241 (APPLEBYS) DRIVE WORK

CONTRACTOR SHALL NOT INSTALL THE PROPOSED CONCRETE ISLAND ON THE NORTH DRIVE, STA. 193+81, RT. (THEREBY MAKING IT A RIGHT-IN/RIGHT-OUT) UNTIL ALL PROPOSED CONSTRUCTION ON BAY WINDS DRIVE IS COMPLETE AND AVAILABLE FOR USE BY THE PUBLIC

PARCEL	OWNER OR BUSINESS	MAXIMUM DURATION	DISINCENTIVE AMOUNT
123/124	DIANNA'S DELI	10 CALENDAR DAYS	$2500/ CALENDAR DAY
148	LA QUINTA INN	10 CALENDAR DAYS	$2500/ CALENDAR DAY
152	S&S REALTY	10 CALENDAR DAYS	$2500/ CALENDAR DAY
154	CORSO'S GARDEN CENTER	10 CALENDAR DAYS	$2500/ CALENDAR DAY
155	COLDWELL BANKER	10 CALENDAR DAYS	$2500/ CALENDAR DAY
158/159	MING'S GARDEN / SKATE WORLD	14 CALENDAR DAYS	$2500/ CALENDAR DAY
212	4920 MILAN INVESTMENTS, LTD.	10 CALENDAR DAYS	$2500/ CALENDAR DAY
223	FAZOLI'S RESTAURANT	10 CALENDAR DAYS	$2500/ CALENDAR DAY
224	PANERA BREAD	10 CALENDAR DAYS	$2500/ CALENDAR DAY
227	CHILI'S RESTAURANT	10 CALENDAR DAYS	$2500/ CALENDAR DAY
232	LONGHORN STEAKHOUSE	10 CALENDAR DAYS	$2500/ CALENDAR DAY
240	FIRELAND'S REGIONAL MEDICAL CENTER	10 CALENDAR DAYS	$2500/ CALENDAR DAY
241	APPLEBEE'S RESTAURANT	14 CALENDAR DAYS	$2500/ CALENDAR DAY
245	FIRST FEDERAL BANK OF OHIO	10 CALENDAR DAYS	$2500/ CALENDAR DAY
246	DISTRICT PETROLEUM PRODUCTS	10 CALENDAR DAYS	$2500/ CALENDAR DAY
249	SPEEDWAY SUPER AMERICA LLC "ALONG US 250 ONLY"	10 CALENDAR DAYS	$2500/ CALENDAR DAY
250	FIREWORKS SUPER STORE	10 CALENDAR DAYS	$2500/ CALENDAR DAY
250	SJA REALITY ENTERPRISES LLC	10 CALENDAR DAYS	$2500/ CALENDAR DAY
255	RUTA CARMELO INC.	10 CALENDAR DAYS	$2500/ CALENDAR DAY
258	PAIN & PLEASURE	14 CALENDAR DAYS	$2500/ CALENDAR DAY
261	THOMAS KAMAN SR.	10 CALENDAR DAYS	$2500/ CALENDAR DAY
282	BUSDICKER REAL ESTATE INC. (MANNY'S)	10 CALENDAR DAYS	$2500/ CALENDAR DAY
287	RICHARD SCHUSTER (WEAZY'S ITALIAN)	14 CALENDAR DAYS	$2500/ CALENDAR DAY

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ITEM 614, MAINTAINING TRAFFIC

UNLESS OTHERWISE STATED ON THE MAINTENANCE OF TRAFFIC PLANS, A MINIMUM OF TWO LANES OF TRAFFIC ON US 250 IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY THE USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT AND TEMPORARY SURFACES USING ITEMS 410 AND 614.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES ON US 250 SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 12:00N MONDAY
MONDAY	12:00N FRIDAY THROUGH 12:00N TUESDAY
TUESDAY	12:00N MONDAY THROUGH 12:00N WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 12:00N THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 12:00N FRIDAY
THURSDAY (THANKSGIVING ONLY)	12:00N WEDNESDAY THROUGH 12:00N MONDAY
FRIDAY	12:00N THURSDAY THROUGH 12:00N MONDAY
SATURDAY	12:00N FRIDAY THROUGH 12:00N MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF $50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3 CONSTRUCTION ENGINNER TWO (2) WEEKS PRIOR TO BEGINNING WORK.

PHONE: (419) 207-7158

SEQUENCE OF CONSTRUCTION

THE FOLLOWING SEQUENCE OF CONSTRUCTION HAS BEEN PROVIDED FOR THE CONTRACTOR'S CONSIDERATION. THE CONTRACTOR MAY PROPOSE ALTERING PORTIONS OF THE PROVIDED SEQUENCE BY SUBMITTING A REVISED MAINTENANCE OF TRAFFIC PLAN TO ODOT AND RECEIVING THEIR SUBSEQENT APPROVAL.

ALL ADVANCE WARNING SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS AND STANDARD CONSTRUCTION DRAWINGS PRIOR TO BEGINNING WORK ON ANY PHASE.

PHASE ONE

PHASE ONE WORK SHALL BE COMPLETED IN THE FIRST CONSTRUCTION SEASON (2015) AND CONSISTS OF WORK ON NON-SIGNALIZED INTERSECTIONS AND DRIVES.

PHASE TWO

PHASE TWO SHALL BE COMPLETED IN THE SECOND CONSTRUCTION SEASON (2016) AND CONSISTS OF SIDEWALK, DRIVE AND INTERSECTION CONSTRUCTION ON THE EAST SIDE OF US 250. TRAFFIC PATTERNS AND WORK HOURS SHALL BE IN ACCORDANCE WITH THE PHASE TWO MAINTENANCE OF TRAFFIC PLANS.

SIGNALIZED INTERSECTIONS WILL BE MAINTAINED IN ACCORDANCE WITH MAINTENANCE OF SIGNALIZED INTERSECTIONS NOTE. CLOSE BOGART ROAD EAST OF US 250 AND DETOUR THRU TRAFFIC IN ACCORDANCE WITH THE BOGART ROAD-PHASE TWO DETOUR PLAN. REPLACE THE BOGART ROAD CULVERT AND CONSTRUCT THE IMPROVEMENTS ON BOGART ROAD EAST OF US 250 AT THIS TIME.

ONCE THE IMPROVEMENTS TO BOGART ROAD EAST OF 250 ARE COMPLETE AND TRAFFIC IS RESTORED, CLOSE HULL ROAD AND DETOUR THRU TRAFFIC IN ACCORDANCE WITH THE HULL ROAD DETOUR PLAN. CONSTRUCT THE HULL ROAD IMPROVMENTS AT THIS TIME. HULL ROAD IS NOT TO BE DETOURED AT THE SAME TIME AS BOGART ROAD.

PHASE THREE

PHASE THREE SHALL BE COMPLETED IN THE SECOND CONSTRUCTION SEASON (2016) AND CONSISTS OF SIDEWALK, DRIVE AND INTERSECTION CONSTRUCTION ON THE WEST SIDE OF US 250. TRAFFIC PATTERNS AND WORK HOURS SHALL BE IN ACCORDANCE WITHT THE PHASE THREE MAINTENANCE OF TRAFFIC PLANS.

CONSTRUCT THE IMPROVEMENTS ON BOGART ROAD WEST OF US 250 IN TWO STAGES. DETOUR ONE-WAY TRAFFIC IN ACCORDANCE WITH THE BOGART ROAD-PHASE THREE DETOUR PLAN. SIGNALIZED INTERSECTIONS WILL BE MAINTAINED IN ACCORDANCE WITH MAINTENANCE OF SIGNALIZED INTERSECTIONS NOTE.

PHASE FOUR

PHASE FOUR SHALL BE COMPLETED IN THE SECOND CONSTRUCTION SEASON (2016) AND CONSISTS OF PLANING OPERATIONS, PAVING, PLACEMENT OF PAVEMENT MARKINGS AND NEW SIGNAL INSTALLATION. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE STANDARD DRAWINGS.

SYCAMORE LINE ROAD IMPROVEMENTS

THE IMPROVEMENTS TO THE INTERSECTIONS OF SYCAMORE LINE ROAD WITH CLEVELAND ROAD AND MILAN ROAD MAY BE COMPLETED DURING EITHER PHASE TWO OR PHASE THREE. FINAL PAVING AND PLACEMENT OF PAVEMENT MARKINGS SHALL TAKE PLACE DURING PHASE FOUR. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE STANDARD DRAWINGS. WORK ON THESE INTERSECTIONS SHALL TAKE PLACE DURING DAYLIGHT HOURS.

RAMP "A"

THE CULVERT INSTALLATION ON RAMP "A" IS TO BE COMPLETED IN TWO STAGES DURING PHASE THREE. FINAL PAVING AND PLACEMENT OF PAVEMENT MARKINGS SHALL TAKE PLACE DURING PHASE FOUR. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE RAMP "A" MAINTENANCE OF TRAFFIC PLANS AND THE STANDARD DRAWINGS.

NIGHTIME CONSTRUCTION

NIGHTIME CONSTRUCTION HOURS ARE PROPOSED FOR MUCH OF THE WORK, AS NOTED ON THE PHASE TWO AND PHASE THREE MAINTENANCE OF TRAFFIC PLANS. THE FOLLOWING WORK ITEMS, HOWEVER, MAY ONLY BE PERFORMED DURING DAYLIGHT HOURS.

1. REMOVAL OF EXISTING SIGNAL POLES
2. ERECTION OF NEW SIGNAL POLES
3. ERECTION OF NEW CANTILEVER SIGNS ANDSUPPORTS

IN ADDTION, NO WORK ON THE ABOVE ITEMS MAY BE PERFROMED DURING PEAK TRAFFIC PERIODS, OR BETWEEN THE HOURS OF 6:30 AM TO 8:30 AM, 11:00 AM TO 1:00 PM, AND FROM 3:00 PM TO 6:00 PM.

LANE CLOSURE LENGTH LIMITATIONS ON US 250

THE BUSINESS COMMUNITY AND ODTOT HAVE AGREED TO MINIMIZE THE LENGTH OF LANE CLOSURES ON US 250 ON THIS PROJECT. THE CONTRACTOR IS RESTRICTED TO PROVIDE A LANE CLOSURE LENGTH ON US 250 THAT IS ONLY NECESSARY FOR THE WORK THAT IS BEING PERFORMED DURING THE ALLOWABLE WORK HOURS EXCEPT FOR PHASE 2 BETWEEN MEIJER NORTH DRIVE AND HULL ROAD. IF THE CONTRACTOR FAILS TO MEET THIS LIMITATION THEN A DISCENTIVE OF $2500 PER INCIDENT WILL BE ASSESSED THE CONTRACTOR.

MAINTENANCE OF SIGNALIZED INTERSECTIONS

SIGNAL OPERATION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING, TEMPORARY, OR NEW TRAFFIC SIGNAL INSTALLATIONS. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD DRAWINGS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROLL DEVICES, INCLUDING THE LOCATION AND MINIMUM NUMBER OF THE SIGNAL HEADS.

DETECTOR LOOPS SHALL ALSO BE MAINTAINED BY THE CONTRACTOR. WHEN A LOOP IS TAKEN OUT OF SERVICE, THE CONTRACTOR SHALL HAVE TWENTY-FOUR (24) HOURS TO RESTORE THE DETECTION EITHER BY REPAIRING THE LOOP OR BY OTHER MEANS APPROVED BY THE ENGINEER.

LISTED BELOW ARE LOCATIONS OF SPECIFIC SIGNALIZED INTERSECTIONS ALONG WITH THEIR PARTNER INTERSECTION. WHEN IT BECOMES NECESSARY TO TEMPORARILY CLOSE THE SIDE ROAD OF ONE OF THESE INTERSECTIONS IN ORDER TO FACILITATE THE CONTRUCTION OR TO TAKE THE SIGNAL OUT OF NORMAL OPERATION, ALL LANES OF THE PARTNER INTERSECTION SHALL BE OPEN TO TRAFFIC AND THE SIGNAL IN NORMAL OPERATION.

EAST SIDE

SIDE ROAD	PARTNER INTERSECTION
SANDUSKY MALL DRIVE NORTH	SANDUSKY MALL DRIVE SOUTH
MEIJER NORTH DRIVE	MEIJER SOUTH DRIVE
PARK PLACE NORTH DRIVE	PARK PLACE SOUTH DRIVE

WEST SIDE

SIDE ROAD	PARTNER INTERSECTION
SANDUSKY MALL DRIVE NORTH	SANDUSKY MALL DRIVE SOUTH
CROSSING ROAD	FUN DRIVE

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONBALE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

BOGART RD WILL BE
CLOSED MM/DD/YY
FOR DAYS
INFO: ODOT DIST. 3

W20-H13-60

HULL RD WILL BE
CLOSED MM/DD/YY
FOR DAYS
INFO: ODOT DIST. 3

W20-H13-60

THE FOLLOWING ESTIMATED QUANITITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B	1500 CU YD
ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE C	500 CU YD
ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	200 CU YD
ITEM 616, WATER	50 M GAL

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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MAINTENANCE OF TRAFFIC NOTES

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SCHEDULE OF WORK AND TIME LIMITATIONS

DURING THE LAST TWO WEEKS OF JULY THRU THE FIRST THREE WEEKS OF AUGUST IN ANY YEAR, THE CONTRACTOR MAY NOT CLOSE US 250 BETWEEN THE HOURS OF 8:00 AM AND 10:00 PM. THE LIMITATIONS BELOW ARE MINIMAL EXPECTATIONS DURING THE CONSTRUCTION SEASONS. THE CONTRACTOR MAY PERFORM THE WORK AS FOLLOWS:

IN THE FIRST CONSTRUCTION SEASON (2015), WORK WILL BE REQUIRED TO COMPLETED BY OCTOBER 31, 2015 AS FOLLOWS:

1. DEMOLISH CREDIT UNION BULIDING AS ONE OF THE FIRST ITEMS OF WORK BEGINNING IN MAY 2015.

2. AS SOON AS POSSIBLE AND WHERE POSSIBLE, THE CONTRACTOR IS TO GET THE SIGNAL POLES ORDERED. THE CONTRACTOR IS ALLOWED TO CONSTRUCT THE SIGNAL POLE FOUNDATIONS DURING THE WINTER MONTHS.

3. ADDITIONAL WORK THAT CAN TAKE PLACE DURING THE FIRST CONSTRUCTION SEASON INCLUDES CONSTRUCTION AT NON-SIGNALIZED INTERSECTIONS AND DRIVES.

4. THERE WILL BE NO WORK, EXCEPT THE SIGNAL FOUNDATIONS AS PREVIOUSLY MENTIONED, FROM OCTOBER 31, 2015 THRU APRIL 1, 2016. SNOW AND ICE ISSUES TO BE ADDRESSED BY THE CITY AND STATE.

5. OCTOBER 31, 2015 SHALL BE CONSIDERED AN INTERIM COMPLETION DATE FOR THE FIRST CONSTRUCTION SEASON. IF THE CONTRACTOR FAILS TO COMPLETE THE WORK OUTLINED ABOVE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE OF $2500 PER CALENDAR DAY BEYOND THE OCTOBER 31, 2015 DATE.

IN THE SECOND CONSTRUCTION SEASON (2016), WORK WILL BE REQUIRED TO BE COMPLETED BY SEPTEMBER 15, 2016 AS FOLLOWS:

6. CLOSE AND CONSTRUCT THE BOGART ROAD WORK ON THE EAST SIDE OF US 250. MAY 27, 2016 SHALL BE CONSIDERED AN INTERIM COMPLETION DATE THIS WORK. IF THE CONTRACTOR FAILS TO COMPLETE THE WORK OUTLINED ABOVE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE OF $2500 PER CALENDAR DAY BEYOND THE MAY 27, 2016 DATE. FEBRUARY 29, 2016 SHALL BE THE START DATE FOR THE ROAD WORK OF BOGART ROAD ON THE EAST SIDE OF US 250.

7. ONCE THE BOGART ROAD WORK LISTED UNDER #6 IS COMPLETE, CLOSE AND CONSTRUCT THE HULL ROAD WORK AND BEGIN THE BOGART ROAD WORK ON THE WEST SIDE OF US 250.

8. OTHER THAN WORK LISTED UNDER #6 ABOVE, ALL REMAINING WORK SHALL TAKE PLACE DURING THE SECOND CONSTRUCTION SEASON AND WILL BE REQUIRED TO BE COMPLETED BY SEPTEMBER 15, 2016.

ALTERNATIVE SCHEDULE

THE CONTRACTOR IS TO BE MADE AWARE THAT THE DETOURS IN THE PLANS FOR THE HULL ROAD REALIGNMENT AND BOGART ROAD WORK ON THE EAST SIDE OF US 250 WAS DISCUSSED AND COORDINATED WITH THE COUNTY AND LOCAL OFFICIALS. THE AMOUNT OF TOURIST TRAFFIC WAS ALSO CONSIDERED. THE DATES CONTAINED IN THE SEQUENCE OF WORK IS NOT TO BE CHANGED FOR THESE TWO LOCATIONS (HULL ROAD AND EAST LEG OF BOGART ROAD). DUE TO THE SIZE OF THIS PROJECT, THE "SCHEDULE OF WORK AND TIME LIMITATIONS" NOTE WAS CREATED AND USED FOR SYNCHRONIZING THE UTILITY RELOCATION WORK. THE CONTRACTOR MAY PERFORM MORE WORK IN THE 2015 SEASON AS NOTED IN NOTE #3 AS LONG AS IT IS UNDERSTOOD THAT THEY MAY HAVE TO WORK AROUND SOME UTILITIES WHICH MAY NOT BE RELOCATED AT THAT TIME.

OHIO BIKE WEEK

THE ANNUAL BIKE WEEK INVOLVES OVER 300,000 MOTORCYCLES CONVERGING ON US 250 IN THE SANDUSKY AREA AND WILL IMPACT THE CONTRUCTION OF THIS PROJECT. NO WORK IS PERMITTED ON THIS PROJECT DURING OHIO BIKE WEEK. ALL THRU LANES ON US 250 SHALL BE OPEN TO TRAFFIC. THERE SHALL BE NO DETOURS IN EFFECT DURING THIS EVENT. THE DATES OF THIS EVENT ARE CURRENTLY NOT SCHEDULED FOR THE NEXT TWO YEARS BUT ARE ESTIMATED AT MAY 29, 2015 THRU JUNE 7, 2015 AND MAY 27, 2016 THRU JUNE 5, 2016. THE CONTRACTOR IS TO VERIFY THE DATES WITH THE EVENT COORDINATOR. THE WEB SITE FOR THIS EVENT IS LOCATED AT HTTP://OHIOBIKEWEEK.COM WHICH CONTAINS THE EVENT DATES, TELEPHONE NUMBERS AND EMAIL CONTACT INFORMATION.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON TWO LANE ROADS EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON MULTI-LANE ROADWAYS.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN FIVE INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARTELY ITEMIZED.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 100 M. GAL.

COOPERATION OF CONTRACTORS

THERE WILL BE TWO OTHER PROJECTS UNDER CONSTRUCTION AT THE SAME TIME AS THIS PROJECT; ERI-250-1.14, PID 84556 (PERKINS AVENUE INTERSECTION) AND ERI-250-1.92, PID 83458 (STRUB ROAD INTERSECTION). COOPERATION OF CONTRACTORS WILL BE REQUIRED.

EMPLOYEE PARKING AND STORAGE

THE CONTRACTOR'S EMPLOYEES PRIVATE VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE R/W AT ANY TIME. THE CONTRACTOR'S EQUIPMENT, STORAGE BOXES, MATERIALS (STONE PILES, ETC.) SHOULD NOT BE STORED WITHIN THE R/W DURING NON-WORKING HOURS.

ITEM 614, BARRIER REFLECTORS AND/OR OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET. AN ESTIMATED QUANTITY OF 7 EACH OF ITEM 614 BARRIER REFLECTOR, TYPE B AND 5 EACH OF ITEM 614 OBJECT MARKER, ONE-WAY HAVE BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

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MAINTAINENCE OF TRAFFIC NOTES

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ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE (OFFICE OF MATERIALS MANAGEMENT WEB PAGE). THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 650 FEET AND 475 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH CMS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS WILL BE AT THE PROJECT LIMITS. THERE WILL BE A TOTAL OF TWO SIGNS. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 4 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN,
AS PER PLAN 28 SIGN MONTH

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK ACCEPTED.

2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSBILE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT, THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE CITY OF SANDUSKY FOR POLICE SERVICES AND MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT INCLUDE THE HOURS OF 6:30 AM TO 8:30 AM, 11:00 AM TO 1:00 PM, AND FROM 3:00 PM TO 6:00 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS, EXCEPT FOR THE FOLLOWINGINTERSECTIONS WHICH SHALL BE PROTECTED BY OFF-DUTY CITY OF SANDUSKY POLICE, HIRED BY THE CONTRACTOR.

1. ALL INTERSECTIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;

3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;

5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

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MAINTENANCE OF TRAFFIC NOTES

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WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).

2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703-235-0528.

3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-800-229-1388.

4. OHIO LABORERS TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS, PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTSs CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7) THE CONTRACTOR MAY DESIGNATE AN ALTERNATE WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY. EACH WTS SHALL HAVE A CURRENT WTS CERTIFICATION (WITH AN EXPIRATION DATE NO MORE THAN 5 YEARS FROM THE DATE OF ISSUE) FROM ANY OF THE APPROVED ORGANIZATIONS.

THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES.

2. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.

3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.

4. COORDINATE A TRAFFIC INDICENT MANAGEMENT MEETING EACH YEAR BEFORE CONSTRUCTION WORK BEGINS WITH ODOT AND THE SAFETY FORCES THAT WILL RESPOND TO INCIDENTS ON THE PROJECT. ITEMS TO BE DISCUSSED WILL BE THE:

   A. TRAFFIC INCIDENT MANGEMENT PLAN (TIMP);

   B. EMERGENCY RESPONSES AND NOTIFICATION;

   C. PROJECT WORK/PHASING CONCERNS (E.G., RAMP CLOSURES); AND

   D. RESPONDERS CONCERNS.

5. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.

6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOs). A WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOs WHILE THEY ARE ON THE PROJECT.

7. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEOs AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.

8. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.

9. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.

10. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, A WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

   A. INITIAL TRAFFIC CONTROL SETUP (DAY AND NIGHT REVIEW).

   B. DAILY TRAFFIC CONTROL SETUP AND REMOVAL.

   C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TRAFFIC CONTROL SETUP.

   D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA.

   E. REMOVAL OF TRAFFIC CONTROL DEVICES AT THE END OF A PHASE OR PROJECT.

   F. ALL OTHER EMERGENCY TRAFFIC CONTROL NEEDS.

11. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN #10 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC CONTROL MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THIS DOCUMENT CAN BE FOUND IN CURRENT REVISION OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL.

12. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

14. IDENTIFY AND CONTACT ALL POSSIBLE RESPONSE PERSONNEL; PREPLAN AND KEEP AN UPDATED ROSTER WITH PHONE NUMBERS:

   A. FEDERAL, STATE, AND LOCAL TRANSPORATION AGENCIES (TRAFFIC MANAGEMENT CENTER);

   B. REGIONAL, COUNTY OR LOCALL 911 DISPATCH; AND

   C. TOWING AND RECOVERY PROVIDERS.

15. COMPLY WITH THE PROVISIONS OF OMUTCD CHAPTER 6I, CONTROL OF TRAFFIC THROUGH TRAFFIC INCIDENT MANAGEMENT AREAS.

16. PROPOSE A RESPONSE/ACTION PLAN TO:

   A. ESTABLISH ALTERNATE ROUTE PLANS PER THE PROVIDED ODOT PLAYBOOK;

   B. REMOVE TRAFFIC DEMAND FROM IMPACTED ROADWAY(S);

   C. DIVERT TRAFFIC TO ROUTES THAT CAN ACCOMMODATE DEMANDS;

   D. DETOUR TRAFFIC AWAY FROM SENSITIVE AREAS (SUCH AS SCHOOLS, HOSPITALS, ETC.);

   E. DISCUSS METHODS OF DETERMINING A STAGING AREA FOR RESPONDERS WITHIN OR NEAR THE CONSTRUCTION ZONE; AND

   F. DISCUSS METHODS OF DEVELOPING INGRESS AND EGRESS SITES WITHIN THE CONSTRUCTION ZONE.

   THE RESPONSE/ACTION PLAN SHALL BE SUBMITTED TO ODOT FOR ACCEPTANCE BEFORE THE CONTRACTOR'S FIRST DAY OF WORK.

17. PERFORM, AT A MINIMUM, THE FOLLOWING FUNCTIONS IN INCIDENT DETECTION AND VERIFICATION:

   A. CALL 911/NOTIFY TRAFFIC MANAGEMENT CENTER AND PROVIDE THE FOLLOWING:

      i. LOCATION - INCLUDING MILEPOST NUMBER AND DIRECTION OF TRAVEL.
      ii. NUMBER AND TYPE OF VEHICLES INVOLVED.
      iii. ESTIMATED EXTENT OF DAMAGE OR INJURY.
      iv. ESTIMATED NUMER OF PATIENTS INVOLVED.
      v. ANY POTENTIAL HAZARDOUS CONDITIONS.
      vi. THE PLACARD NUMBER ON ANY HAZARDOUS MATERIALS PLACARD FROM A SAFE DISTANCE

   B. INITIATE TRAFFIC MANGEMENT/PROVIDE TRAFFIC CONTROL.

   C. ASSIST MOTORIST WITH DISABLED VEHICLES.

   D. RECOMMEND ROADWAY REPAIR NEEDS.

   E. PROVIDE REPAIR RESOURCES.

18. ATTEND POST-INCIDENT DEBRIEFINGS IF REQUIRED.

THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT OF THE UNIT PRICE BID FOR THE WTS FOR ANY DAY ON WHICH THE CONTRACTOR FAILS TO PERFORM THE DUITES SET FORTH ABOVE. SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTOR'S NEXT SCHEDULED ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR, THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR THE WORKSITE TRAFFIC SUPERVISOR:

ITEM 614 WORKSITE TRAFFIC SUPERVISOR	11 MONTHS

CALCULATED | CHECKED

MAINTAINENCE OF TRAFFIC NOTES

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ITEM 614 - BUSINESS ENTRANCE (M4-H15) SIGN, AS PER PLAN

THE BUSINESS ENTRANCE (M4-H15) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH TYPE G OR TYPE H ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE THE STANDARD M4-H15 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE MOUNTED ON TWO NO. 3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LOCATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITIONED AT 90 DEGREES TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING, AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614-BUSINESS ENTRANCE SIGN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

ITEM 614, BUSINESS ENTRANCE (M4-H15) SIGN, AS PER PLAN 60 EACH

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOs) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOs SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

- WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOs SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOs WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOs WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOs. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOs' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOs WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 256 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

DRAINAGE DURING CONSTRUCTION

BEGINNING AT STATION 221+00 AND CONTINUING TO THE SOUTH END OF THE PROJECT, THE CONTRACTOR SHALL NOT ADJUST OR REMOVE EXISTING CATCH BASINS OR IMPEDE SURFACE FLOW WITH PROPOSED WORK UNTIL THE INTERIOR LANES ARE PAVED OR TEMPORARY DRAINAGE MEASURES ARE IN PLACE, AS APPROVED BY THE ENGINEER.

WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS INDENTIFIED BY THE ENGINEER DURING PHASE FOUR FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF CMS 614.04.

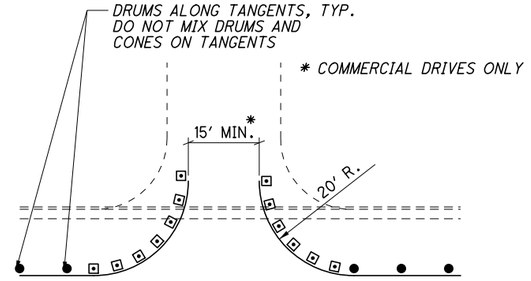
ITEM 614, WORK ZONE CENTER LINE, CLASS I	3.70 MILE
ITEM 614, WORK ZONE LANE LINE, CLASS I	4.90 MILE
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I	13,700 FT.
ITEM 614, WORK ZONE STOP LINE, CLASS I	1,900 FT.
ITEM 614, WORK ZONE ARROW, CLASS I	380 EACH

DRIVEWAY RECONSTRUCTION

THE INTENT IS TO MINIMIZE THE DURATION THAT A DRIVEWAY IS BEING RECONSTRUCTED. THE MAXIMUM DURATION RECONSTRUCTION OF A DRIVEWAY CAN OCCUR SHALL BE 7 CALENDAR DAYS, UNLESS THE DRIVEWAY IS INCLUDED IN THE PARKING DISRUPTION LIMITATION NOTE. IF THE DRIVEWAY IS INCLUDED IN THE PARKING DISRUPTION LIMITATION NOTE, THEN THE MAXIMUM DURATION STIPULATED IN THAT NOTE APPLIES ONLY IF THE DRIVEWAY IS ADJACENT TO THE WORK STIPULATED IN THE PARKING DISRUPTION LIMITATION NOTE. IN THE EVENT THE TIME DURATION IS EXCEEDED, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AMOUNT OF $2500 PER CALENDAR DAY BEYOND THE 7 CALENDAR LIMIT

LEGEND

● - DRUM
⊡ - 28" MIN. GRABBER CONE



DETAIL FOR MAINTENANCE OF DRIVES

DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL PERIODS OF CONSTRUCTION BY USE OF EXISTING AND PROPOSED PAVEMENT, BERMS OR SHOULDERS TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE RESIDENTS AND/OR BUSINESSES WITH A MINIMUM SEVENTY-TWO (72) HOUR NOTICE WHEN ACCESS TO THEIR DRIVEWAY WILL BE RESTRICTED DUE TO CONSTRUCTION. FOR COMMERCIAL DRIVES WITH ONLY ONE ACCESS POINT, NEW DRIVEWAY CONSTRUCTION SHALL BE PART-WIDTH UNLESS OTHERWISE AGREED TO BY THE OWNER/TENANT.

CALCULATED | CHECKED

MAINTAINENCE OF TRAFFIC NOTES

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REF. NO.	SHEET NO.	STATION FROM	STATION TO OR AT	SIDE	614 WORK ZONE LANE LINE, CLASS I, 740.06, TYPE I FEET	614 WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I FEET	614 WORK ZONE EDGE LINE, CLASS I FEET	614 WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I FEET	614 WORK ZONE CHANNELIZING LINE, CLASS I, 740.06, TYPE I FEET		614 WORK ZONE ARROW, CLASS I, 740.06, TYPE I EACH	614 WORK ZONE IMPACT ATTENUATOR EACH		622 PORTABLE CONCRETE BARRIER, 50" FEET	
EL-1	40	101+08	105+00	LT				421							
EL-1	41	105+00	106+51	LT				151							
EL-1	42	120+00	124+05	LT				411							
EL-2	42	124+59	125+00	LT				69							
EL-1	43	125+00	132+68	LT				797							
EL-2	43	133+19	135+00	LT				210							
EL-1	44	135+00	138+88	LT				402							
EL-2	44	139+40	145+00	LT				613							
LL-1	44	141+50	145+00	LT	350										
CL-1	44	142+45	145+00	RT		255									
EL-1	45	145+00	155+00	LT				1000							
LL-1	45	145+00	154+04	LT	904										
CL-1	45	145+00	153+89	LT&RT		889									
EL-1	46	155+00	155+43	LT				72							
EL-2	46	155+86	165+00	LT				943							
EL-1	47	165+00	166+23	LT				152							
EL-2	47	166+57	175+00	LT				872							
EL-1	48	175+00	181+35	LT				664							
EL-2	48	181+69	185+00	LT				360							
EL-1	49	185+00	188+74	LT				380							
EL-2	49	189+09	194+94	LT				610							
EL-1	50	195+32	197+85	LT				276							
EL-1	67	202+97	205+00	RT				203							
EL-1	68	205+00	206+13	RT				113							
CH-1	68	206+00	210+00	RT					400						
LA-1	68		206+90	RT							2				
LA-2	68		208+12	RT							2				
LA-3	68		209+12	RT							2				
EL-2	68	210+00	212+83	RT				371							
EL-1	71	362+00	370+53	LT&RT			879								
EL-1	72	362+60	370+73	LT&RT			827								
EL-1	73	11+75	14+51	RT				227							
PB-1	73	12+25	14+00	RT								1		175	
EL-2	73	12+25	14+52	RT				197							
EL-1	74	12+50	14+52	LT&RT				151							
PB-1	74	13+50	14+00	CL								1		50	
SUBTOTALS, THIS SHEET					1254	1144	1706	9665	400		6	2		225	
TOTALS CARRIED TO GENERAL SUMMARY					**0.24 MI**	**0.22 MI**	**0.32 MI**	**1.83 MI**	**400**		**6**	**2**		**225**	

CALCULATED JJ
CHECKED TJB

MAINTENANCE OF TRAFFIC SUBSUMMARY

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PHASE TWO DETOUR PLAN
BOGART ROAD

ERI-250-0.00

32
677

CALCULATED | CHECKED

0 200' 400' 800'
HORIZONTAL SCALE IN FEET

N

HULL ROAD
CR-8
TIMBER COMMONS DR
PELTON PARK DR
TIMBER LAKE LN
WHITE TAIL RUN
AUTUMN RIDGE LN
WALNUT CREEK LN
WHISPERING PINES LN
FANNETTE CT
ANN DR
NEILL DR
JEANNETTE DR
ANN DR
TIMBER LN
PLUM BROOK CIR
OSBORNE DR
BEAR CREEK DR
AUTUMN DR
QUAIL HOLLOW LN
DEERPATH DR
BOARDWALK BLVD
ATLANTIC AVE
US 250 (MILAN ROAD)
250
2
CROSSINGS RD.
FUN DR.
US 250 (MILAN ROAD)
RAMADA ST.
GALLOWAY ROAD
BEATTY LN
TR 1105
T-118
KINGSLEY CIR N
KINGSLEY CIR W
KINGSLEY CIR E
KINGSLEY CT
BOGART ROAD
CR-10

DETOUR | Bogart Rd | WEST | M4-8-24 | D3-1-24 | M5-1-21 | M3-4-24

DETOUR | Bogart Rd | EAST | M4-8-24 | D3-1-24 | M6-1-21 | M3-4-24

DETOUR | Bogart Rd | WEST | M4-8-24 | D3-1-24 | M6-IL-21 | M3-4-24

DETOUR | Bogart Rd | EAST | M4-8-24 | D3-1-24 | M5-1-21 | M3-4-24

DETOUR | Bogart Rd | WEST | M4-8-24 | D3-1-24 | M6-3-21 | M3-4-24

DETOUR | Bogart Rd | EAST | M4-8-24 | D3-1-24 | M6-3-21 | M3-4-24

DETOUR | Bogart Rd | WEST | M4-8-24 | D3-1-24 | M6-3-21 | M3-4-24

EAST | Bogart Rd | DETOUR | M4-8-24 | D3-1-24 | M6-1-21 | M3-4-24

EAST | Bogart Rd | DETOUR | M4-8-24 | D3-1-24 | M6-3-21 | M3-4-24

WEST | Bogart Rd | DETOUR | M4-8-24 | D3-1-24 | M6-3-21 | M3-4-24

WEST | Bogart Rd | DETOUR | M4-8-24 | D3-1-24 | M6-1L-21 | M3-4-24

DETOUR AHEAD | M4-10L-48 | DETOUR | R11-2-48 | ROAD CLOSED
TYPE III BARRICADE (PORTABLE)

ROAD CLOSED | R11-2-48
TYPE III BARRICADE (PORTABLE)

WORK AREA
TYPE A WARNING LIGHT
R11-3B-60 | M4-10R-48
ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY | DETOUR
TYPE III BARRICADE (PORTABLE)

DETOUR AHEAD | W20-2-36

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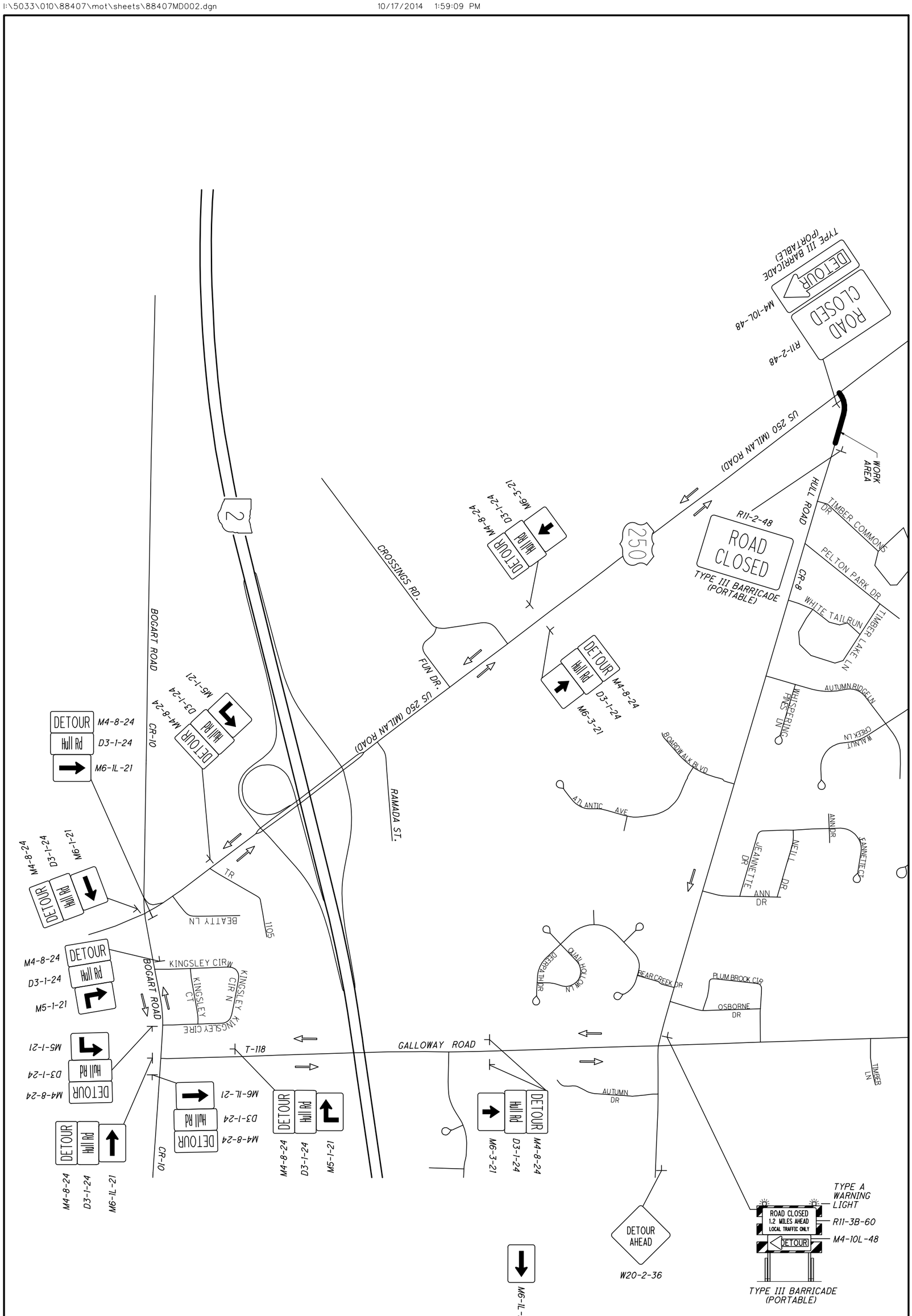

33 617	ERI-250-0.00	DETOUR PLAN HULL ROAD	CALCULATED / CHECKED	0 400' 200' 800 HORIZONTAL SCALE IN FEET

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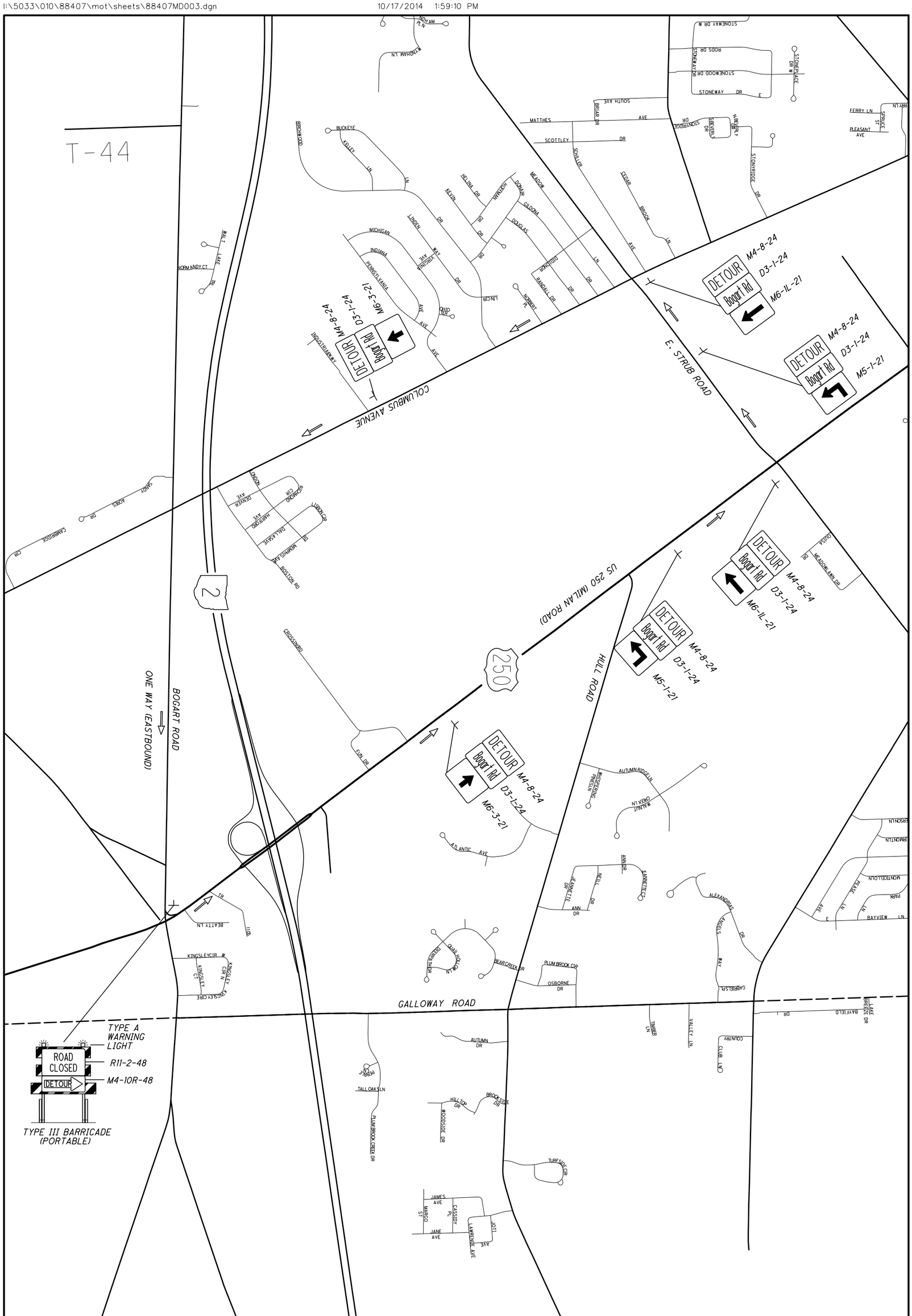

34 677	ERI-250-0.00	PHASE THREE DETOUR PLAN BOGART ROAD - STAGE ONE	CALCULATED CHECKED	0 400' 200' 800' HORIZONTAL SCALE IN FEET

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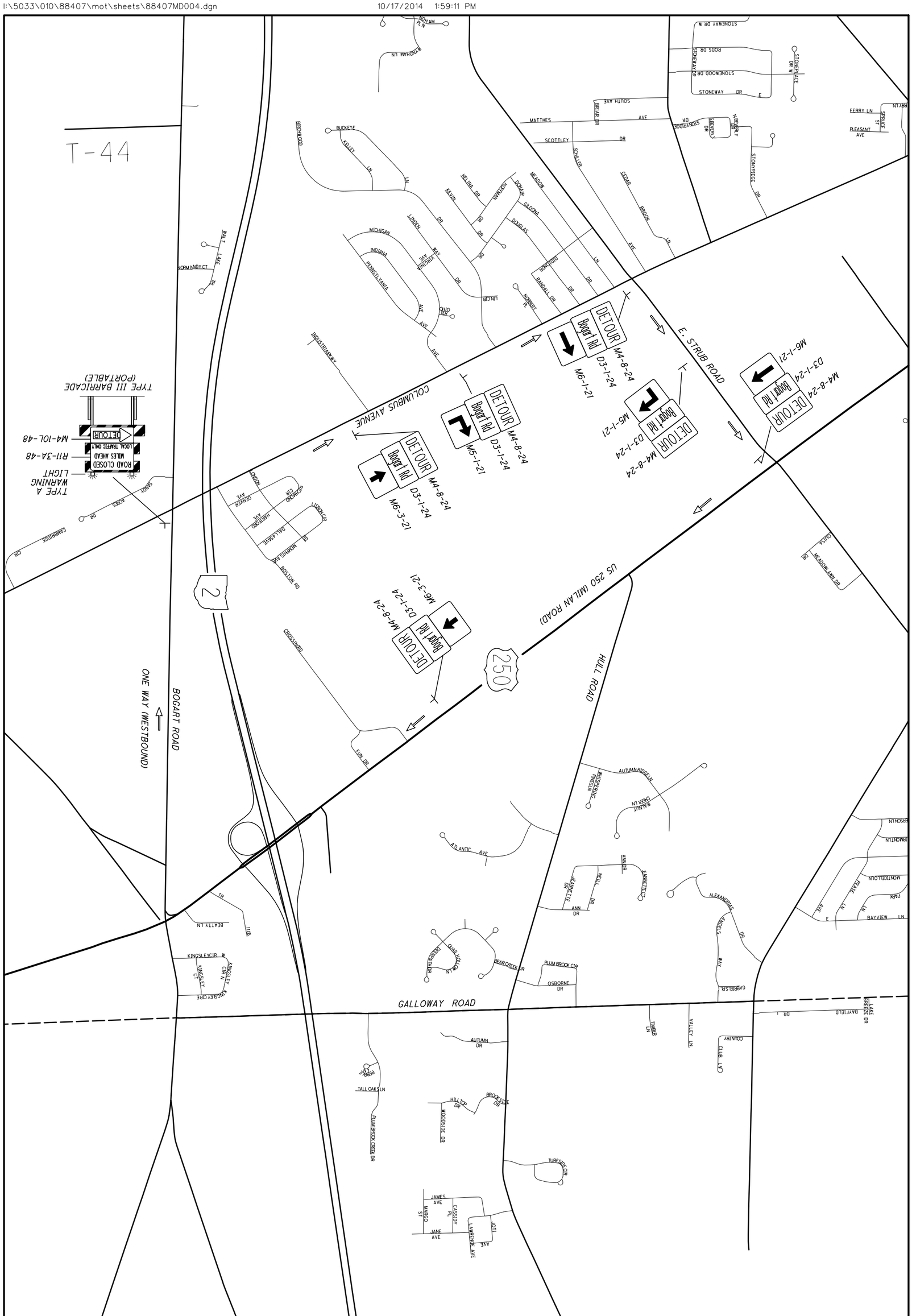

35 / 677	ERI-250-0.00	PHASE THREE DETOUR PLAN BOGART ROAD - STAGE TWO	CALCULATED CHECKED 0 400' 800 200' HORIZONTAL SCALE IN FEET N

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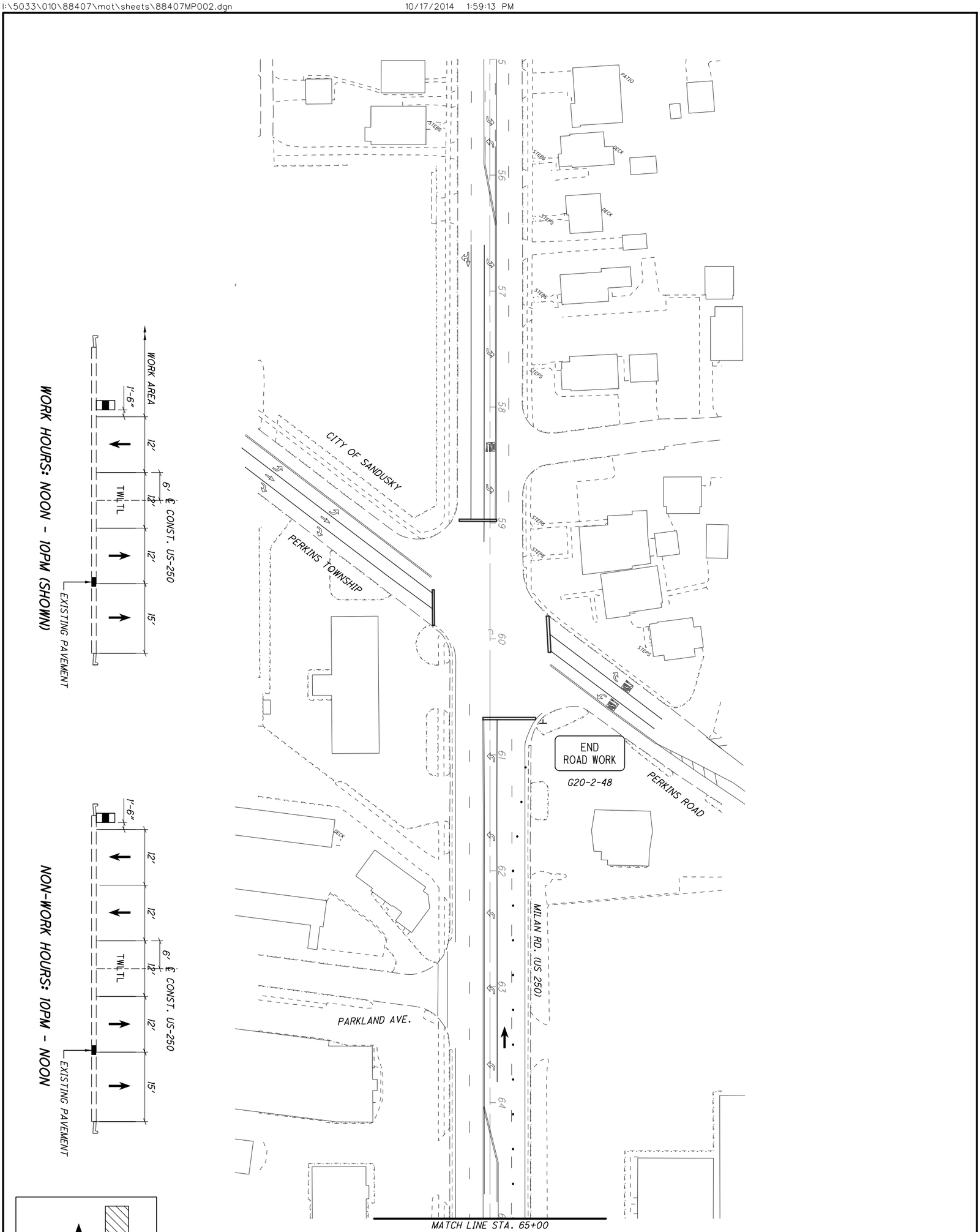
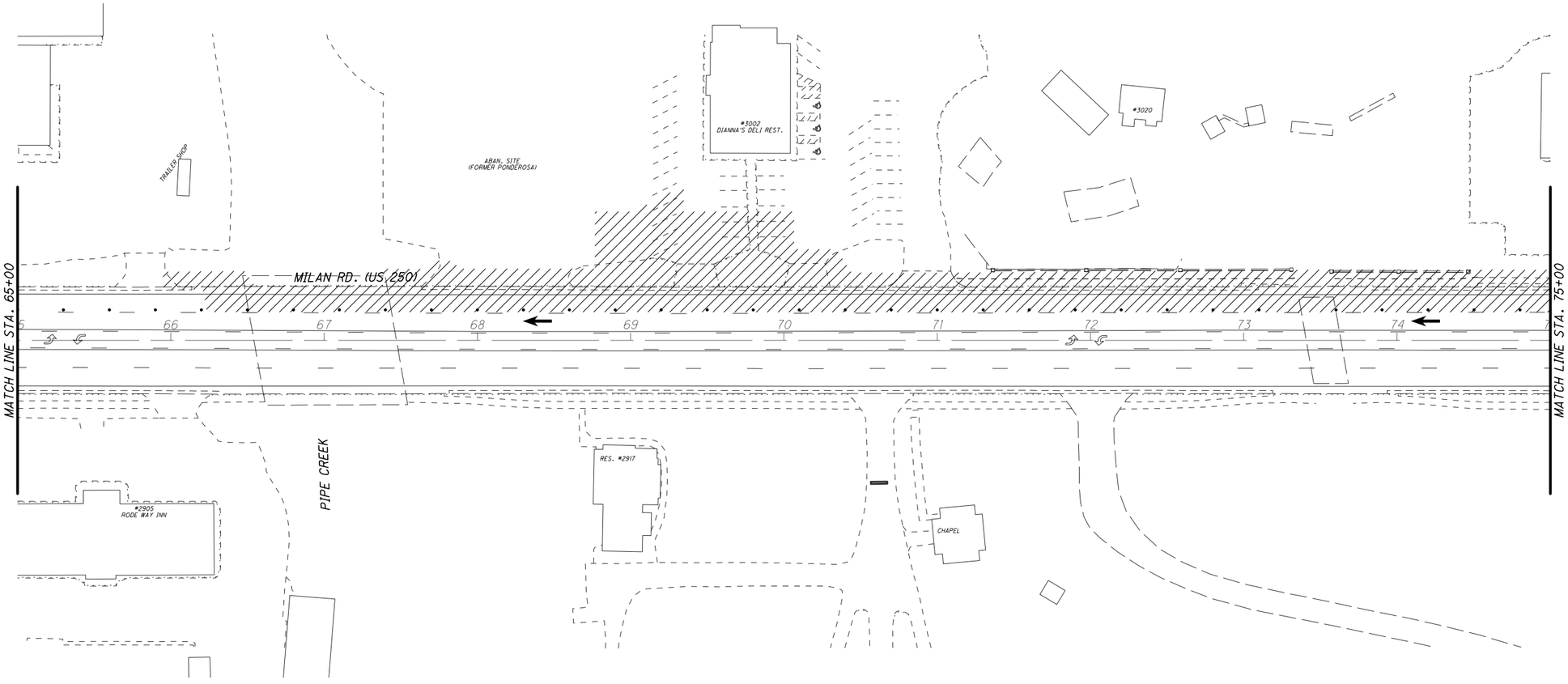
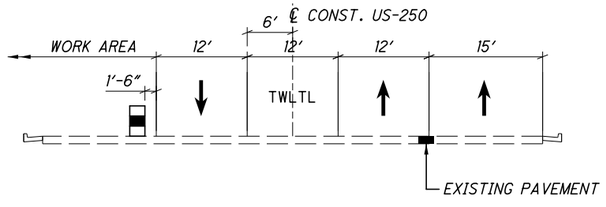
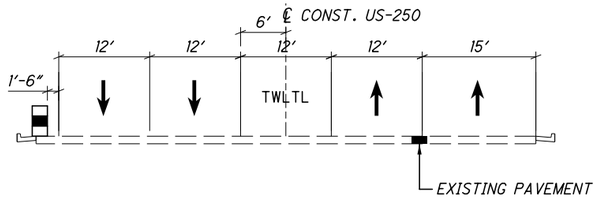


36 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED	0 40 20 80 HORIZONTAL SCALE IN FEET





WORK HOURS: NOON - 10PM (SHOWN)



NON-WORK HOURS: 10PM - NOON

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

0 20 40 80 HORIZONTAL SCALE IN FEET

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

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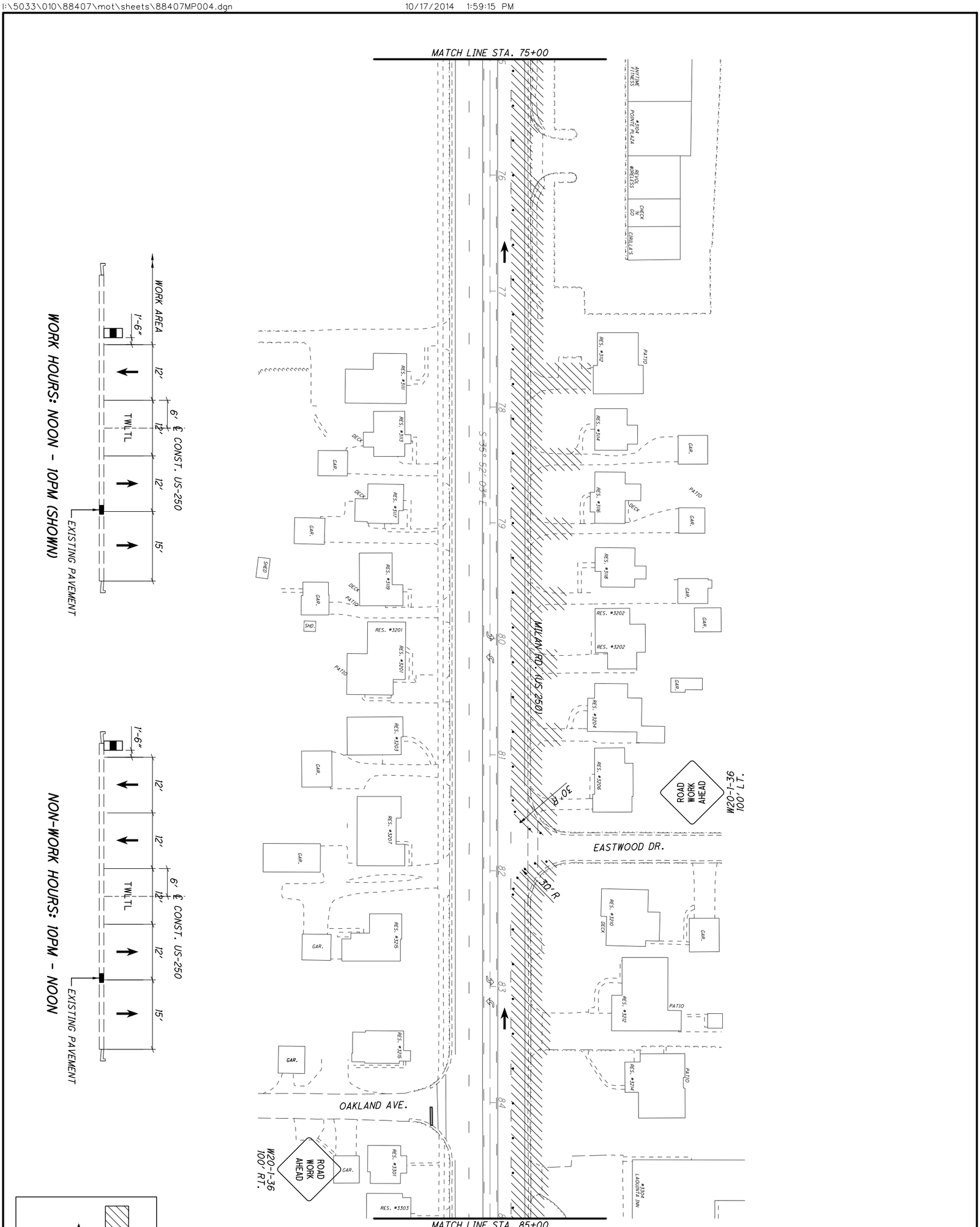
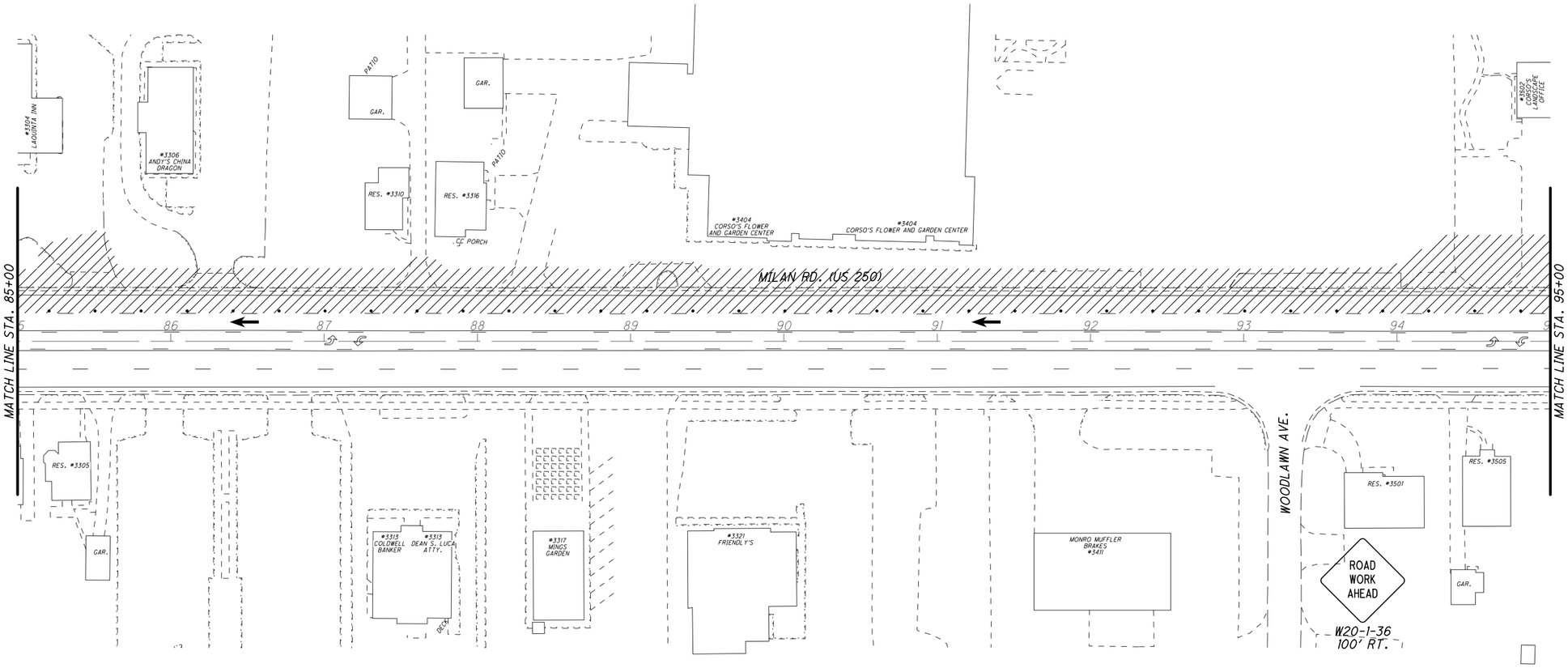
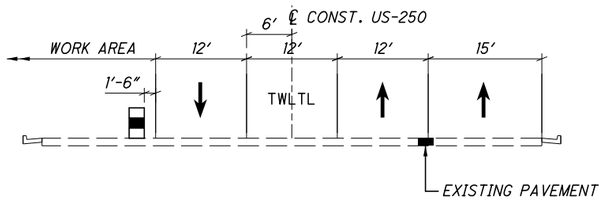
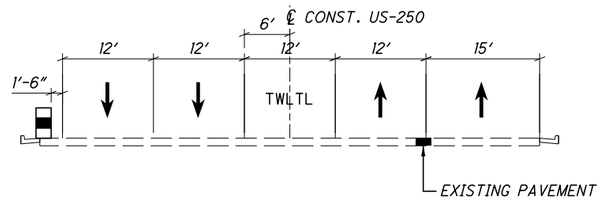


38 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED; 0 20 40 80 HORIZONTAL SCALE IN FEET; N





WORK HOURS: NOON - 10PM (SHOWN)



NON-WORK HOURS: 10PM - NOON

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

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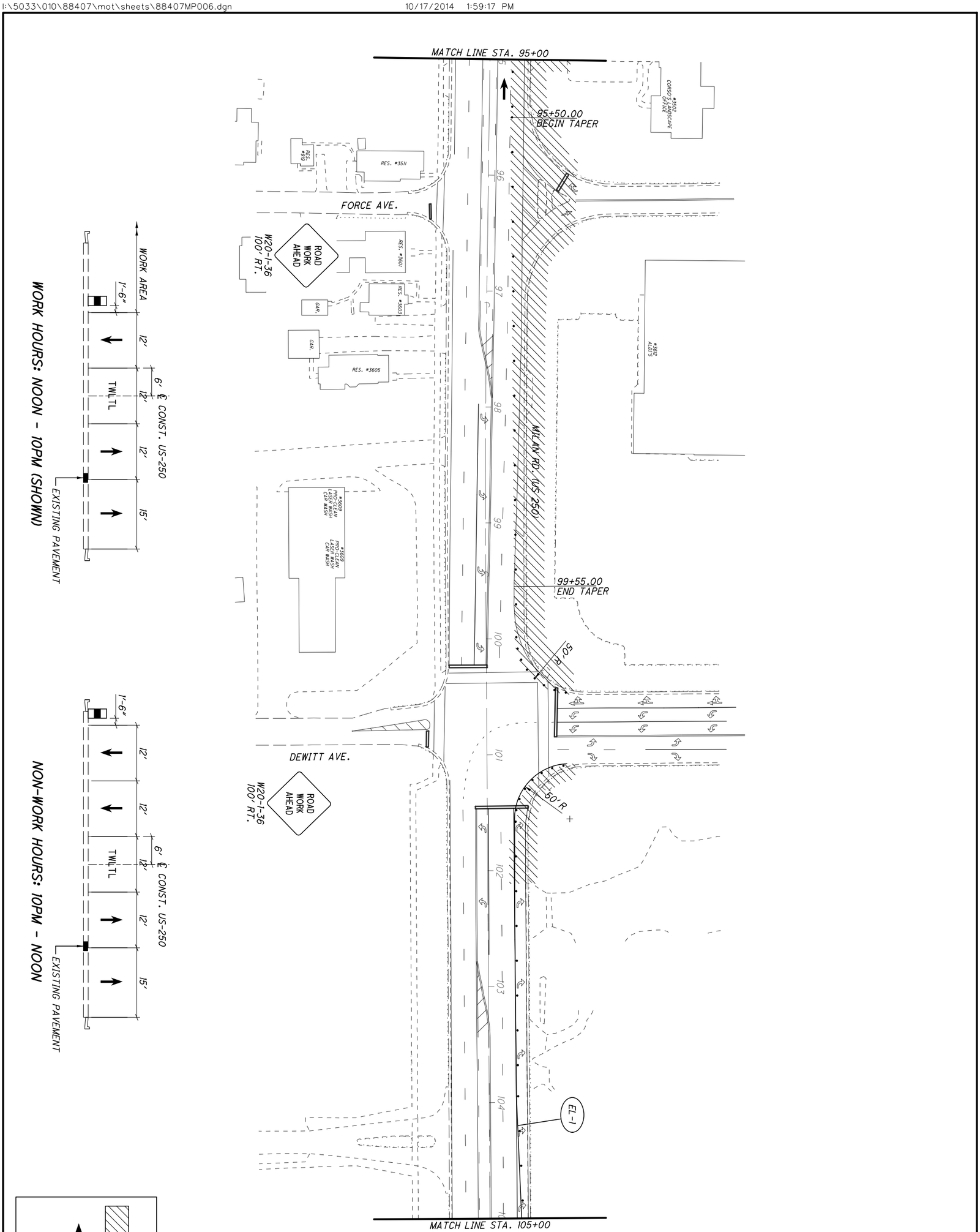
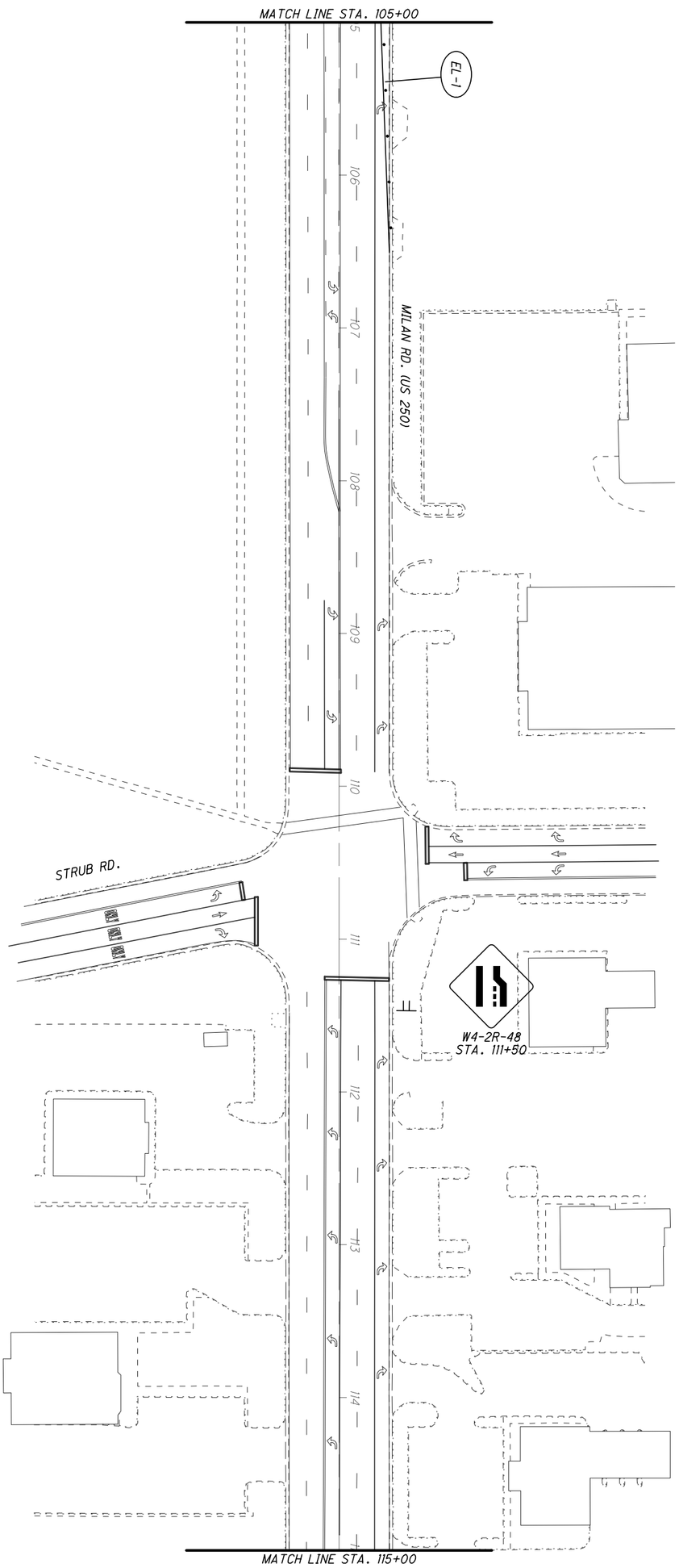


40 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED	0 40 20 80 HORIZONTAL SCALE IN FEET



LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

41
677

ERI-250-0.00

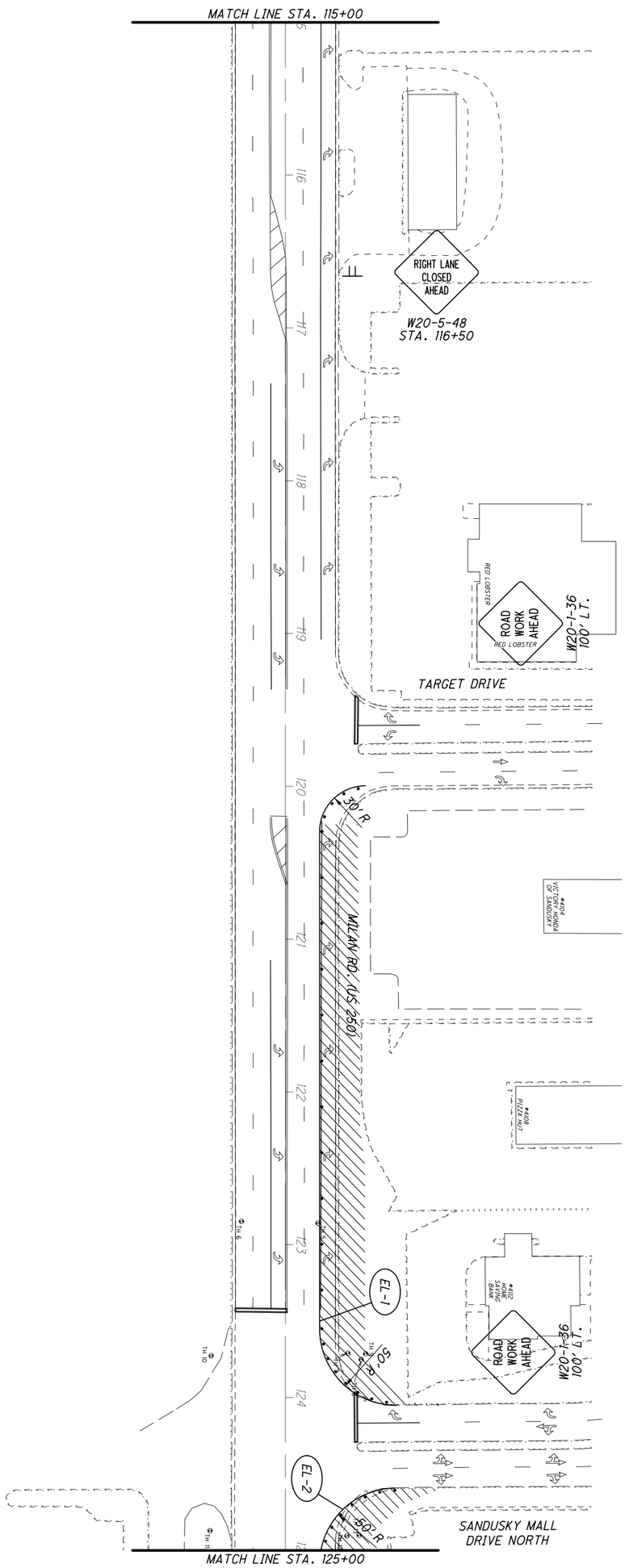
MAINTENANCE OF TRAFFIC
PHASE TWO

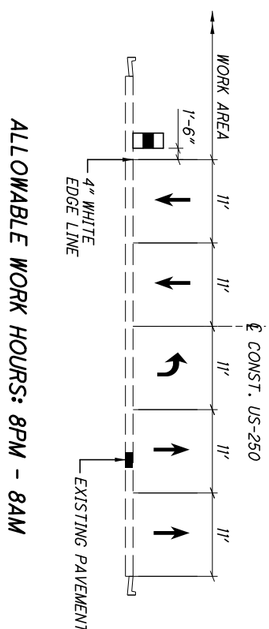
CALCULATED

CHECKED

0 20 40 80
HORIZONTAL SCALE IN FEET

N





ALLOWABLE WORK HOURS: 8PM - 8AM

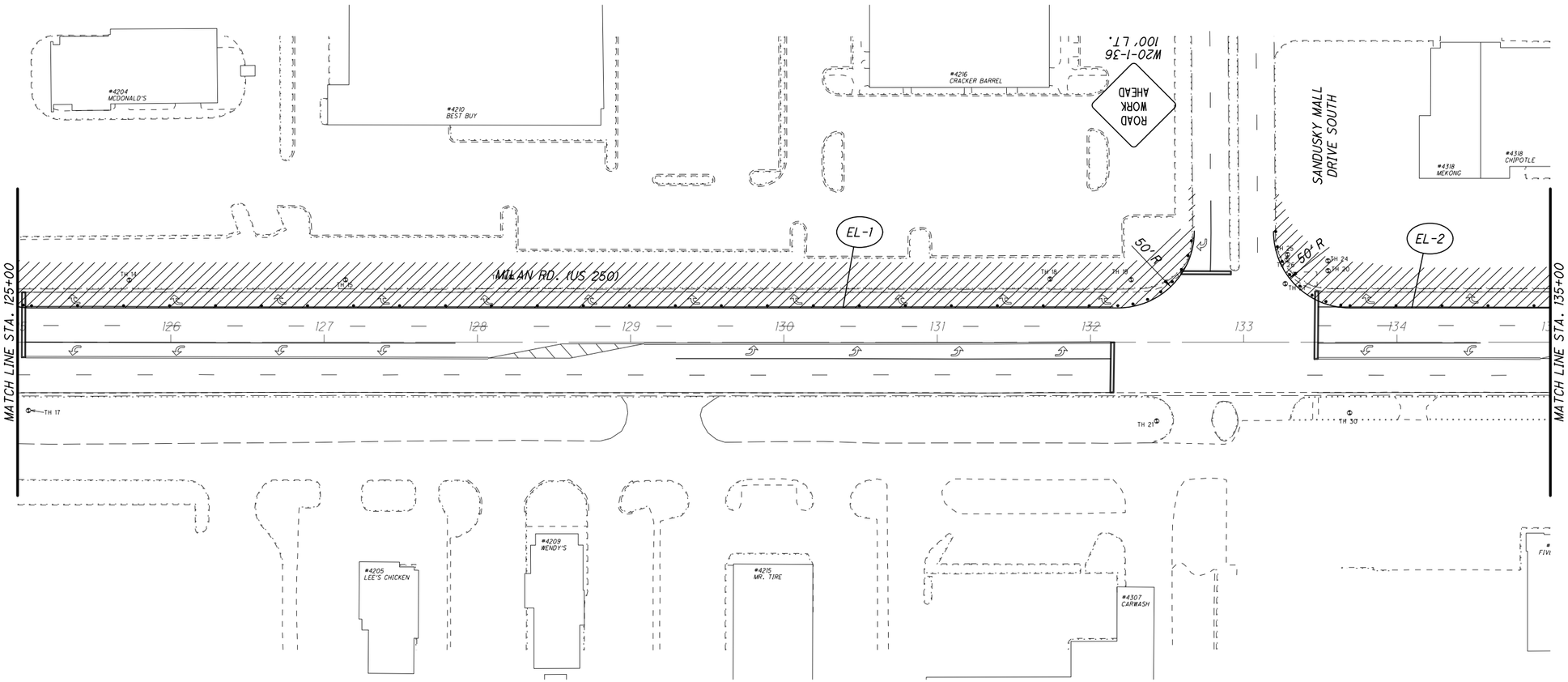
LEGEND

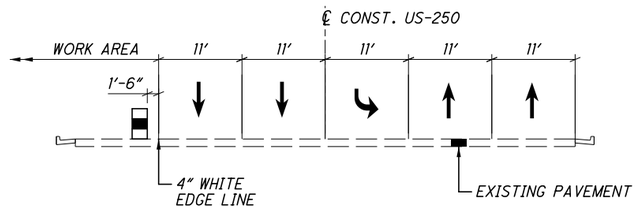
AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

42 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET





ALLOWABLE WORK HOURS: 8PM - 8AM

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

N

0 20 40 80
HORIZONTAL SCALE IN FEET

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

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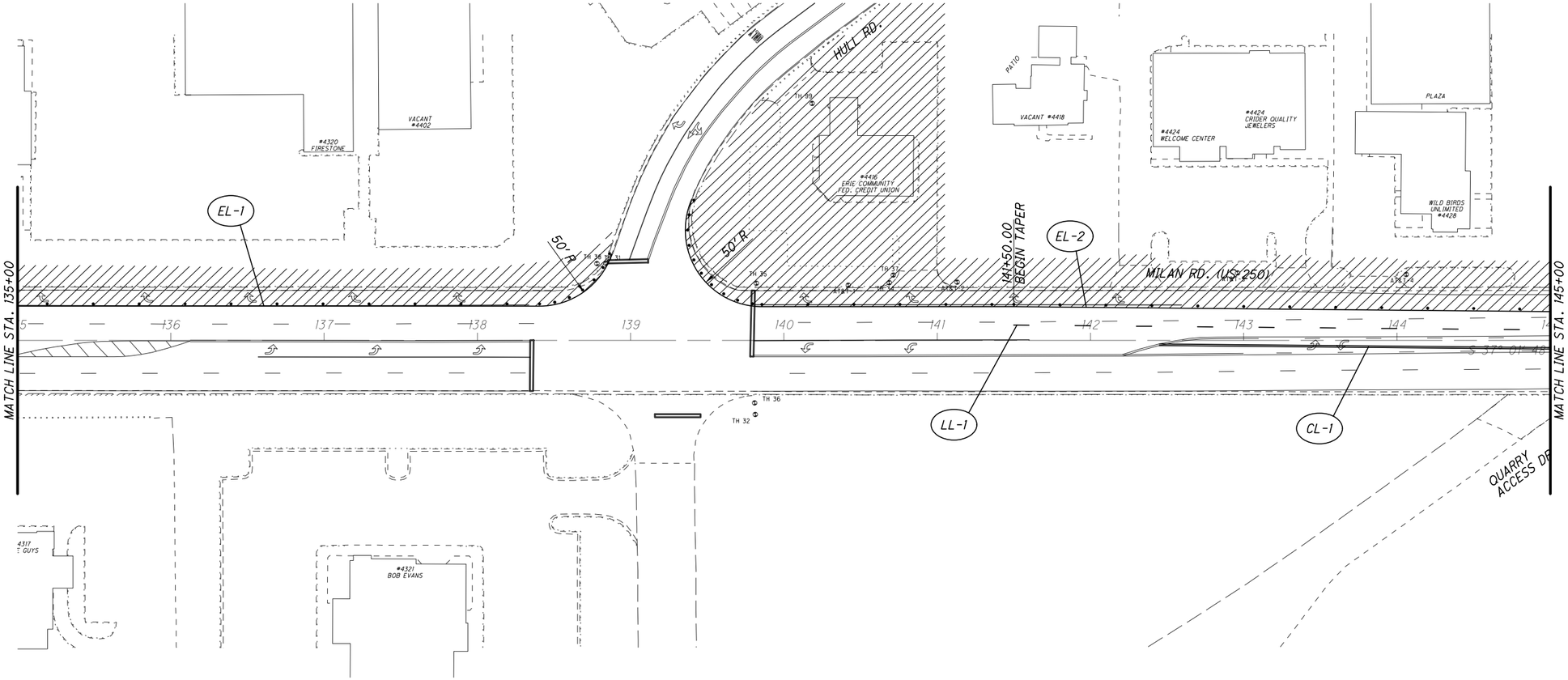

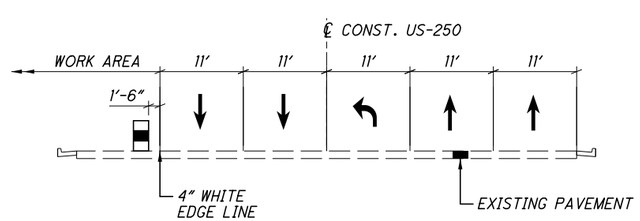

ALLOWABLE WORK HOURS: 8PM - 8AM

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

44
677

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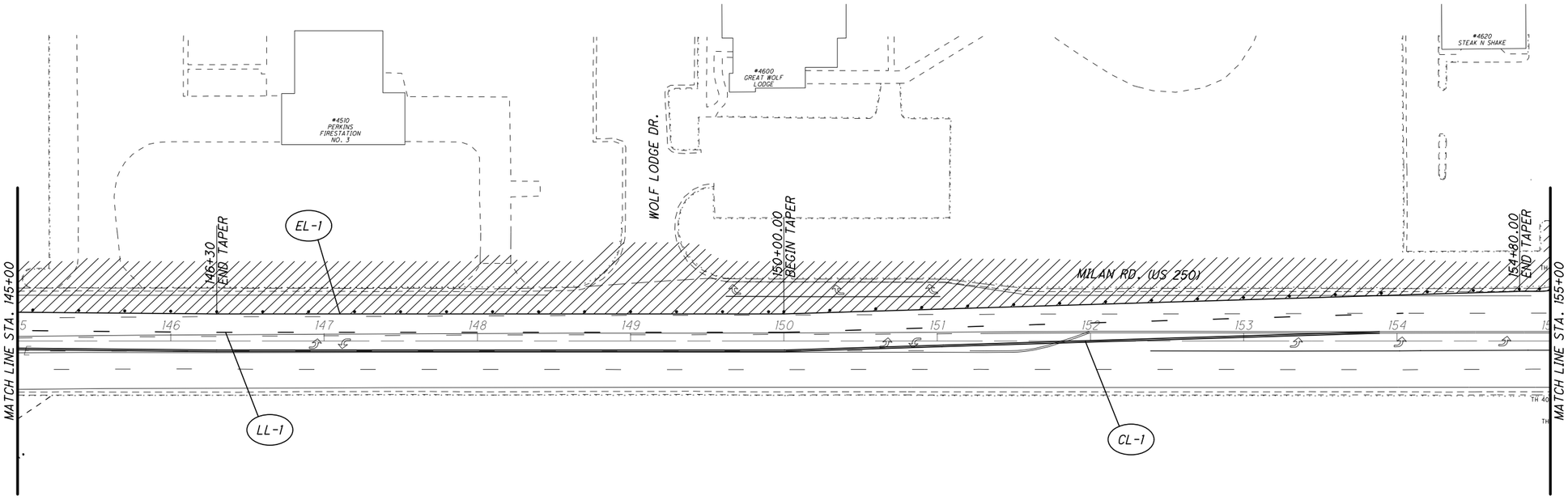

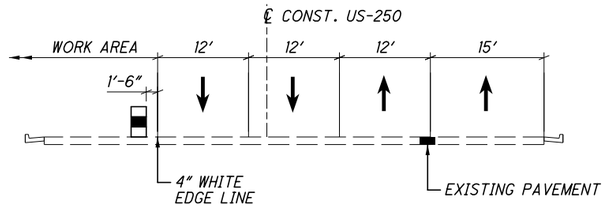

ALLOWABLE WORK HOURS: 8PM - 8AM

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

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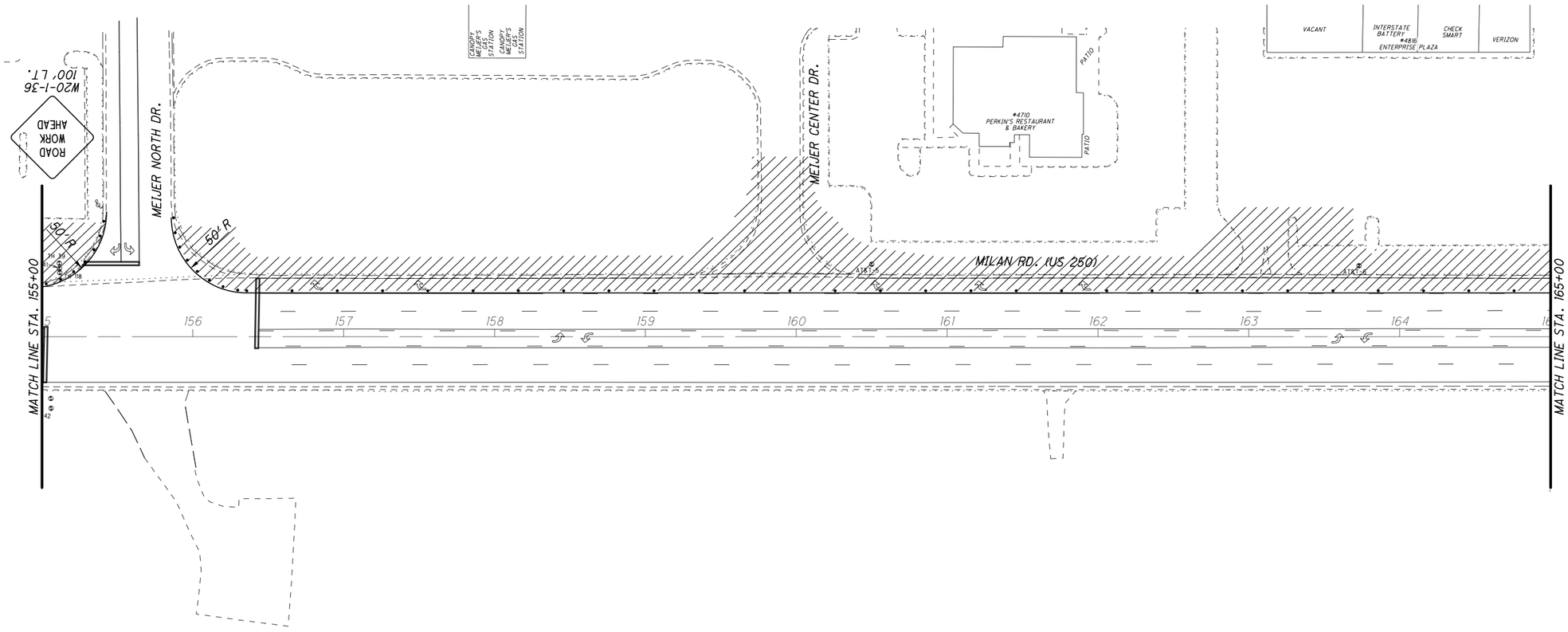

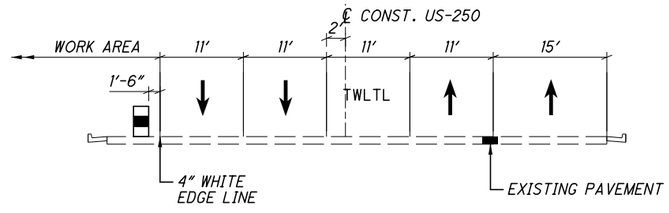

ALLOWABLE WORK HOURS: 8PM - 8AM

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE TWO

ERI-250-0.00

46
677

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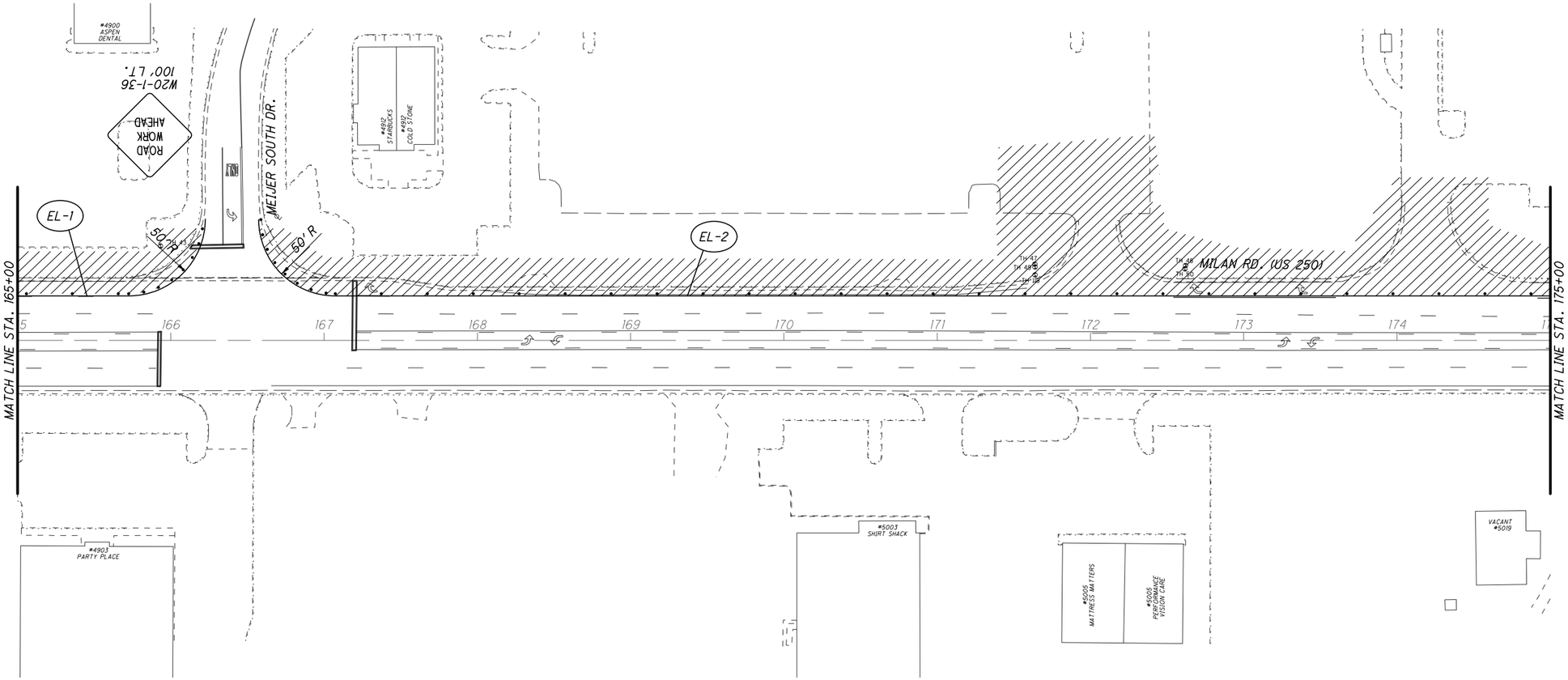

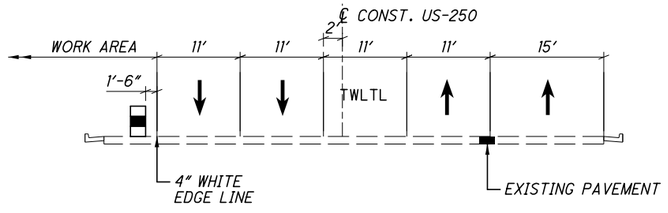

ALLOWABLE WORK HOURS: 8PM - 8AM

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

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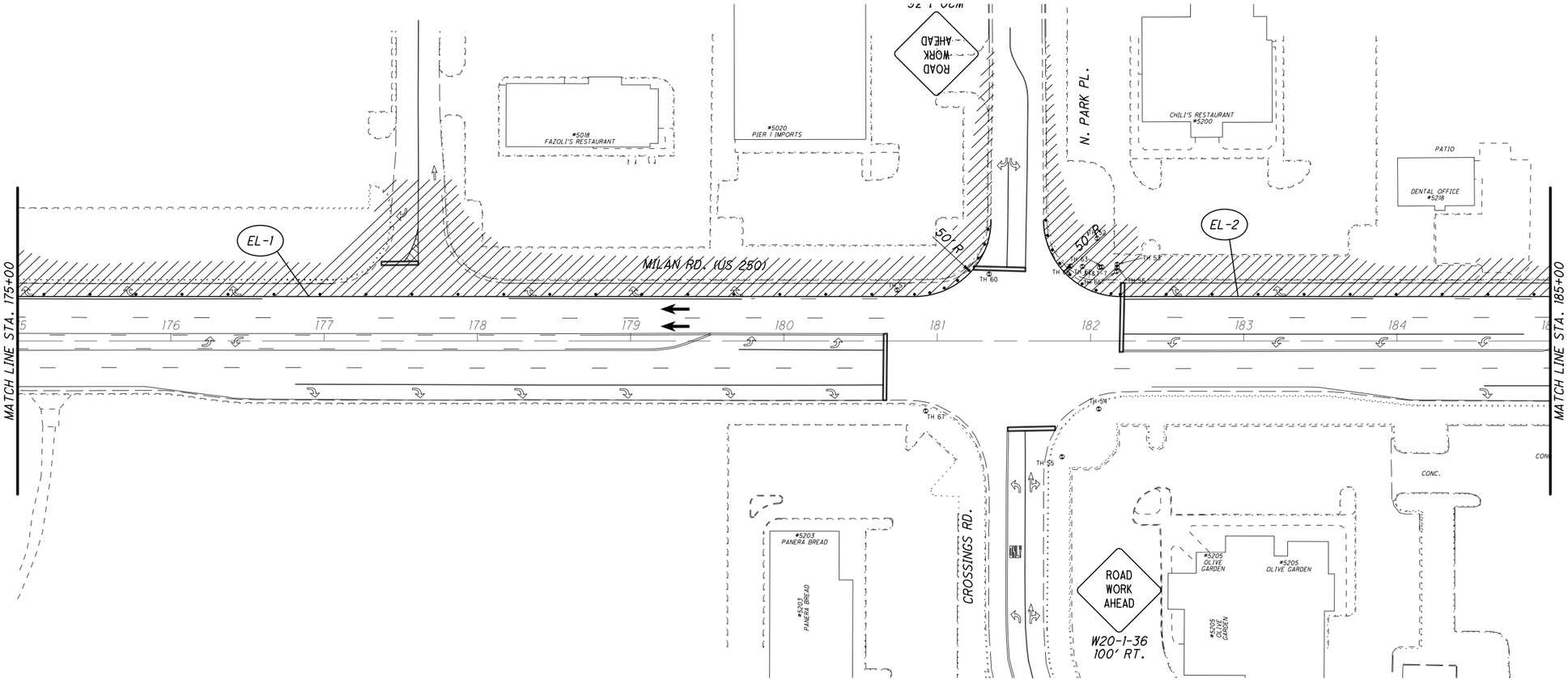

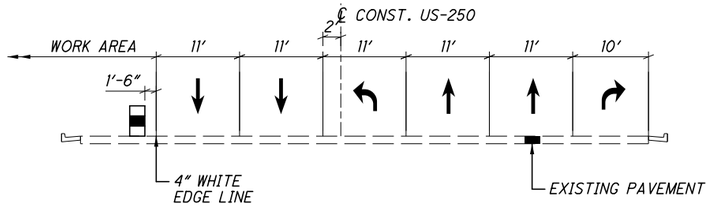

ALLOWABLE WORK HOURS: 8PM - 8AM

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

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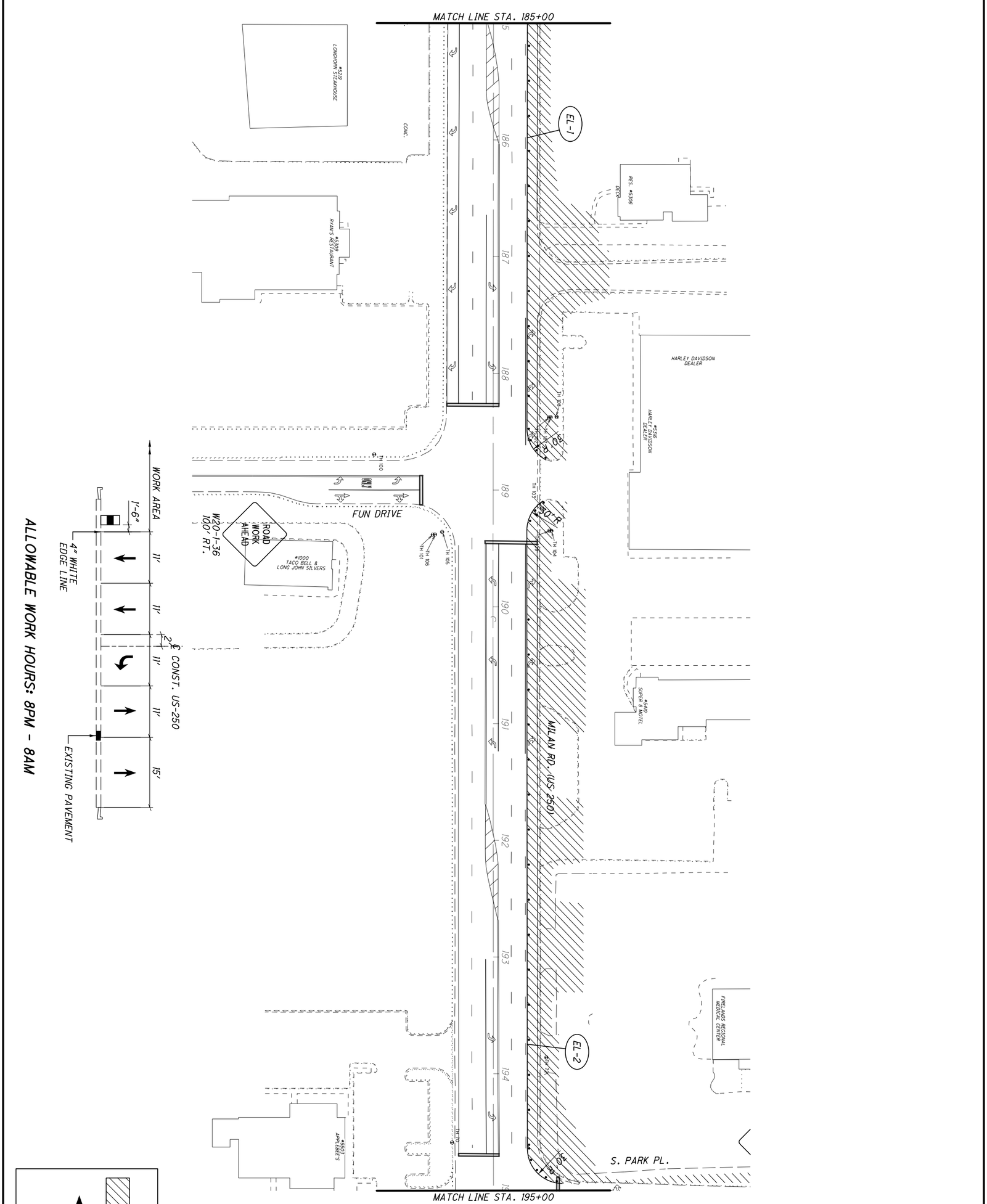
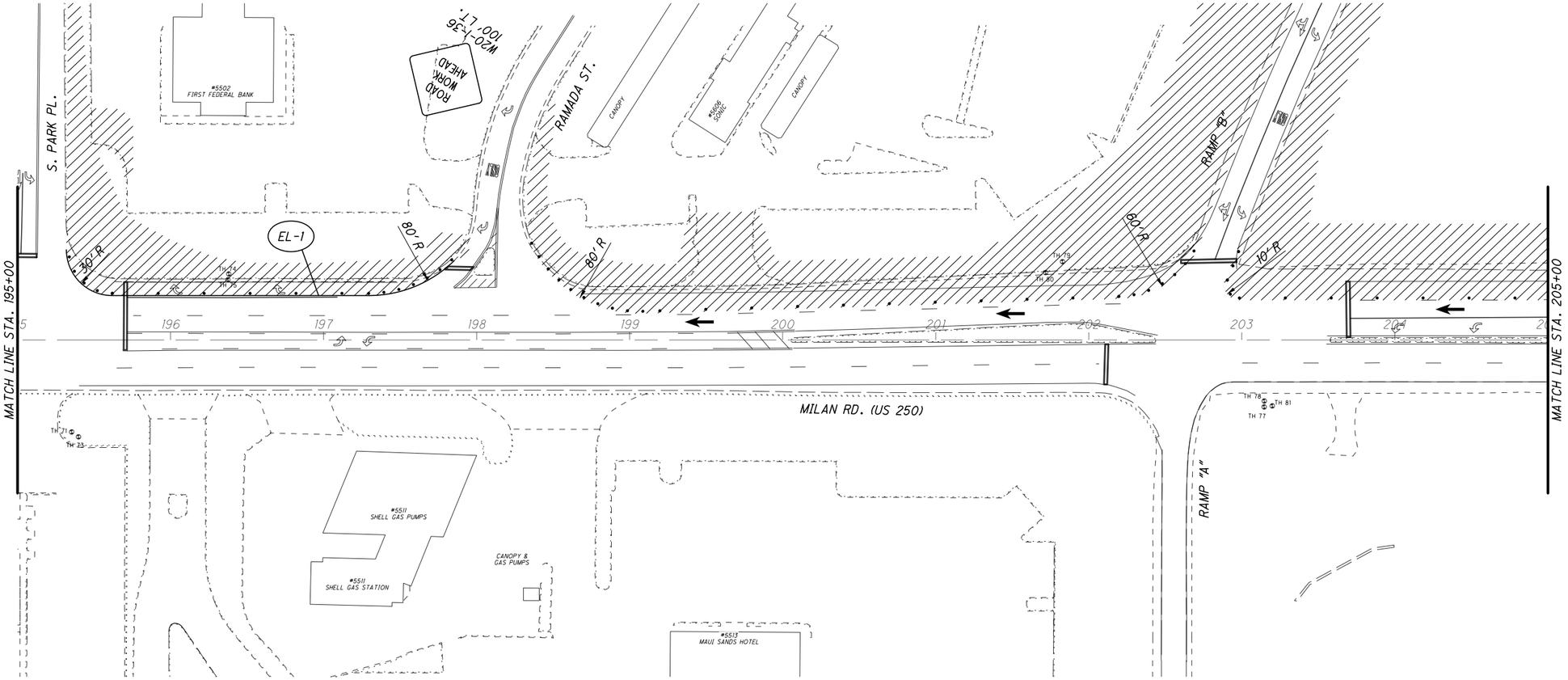
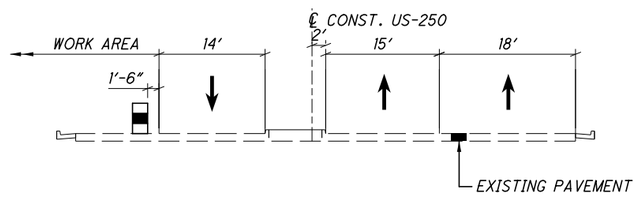
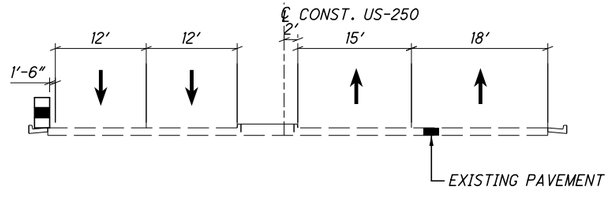


49 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET





WORK HOURS: 8PM - 8AM (SHOWN)



NON-WORK HOURS: 8AM - 8PM

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

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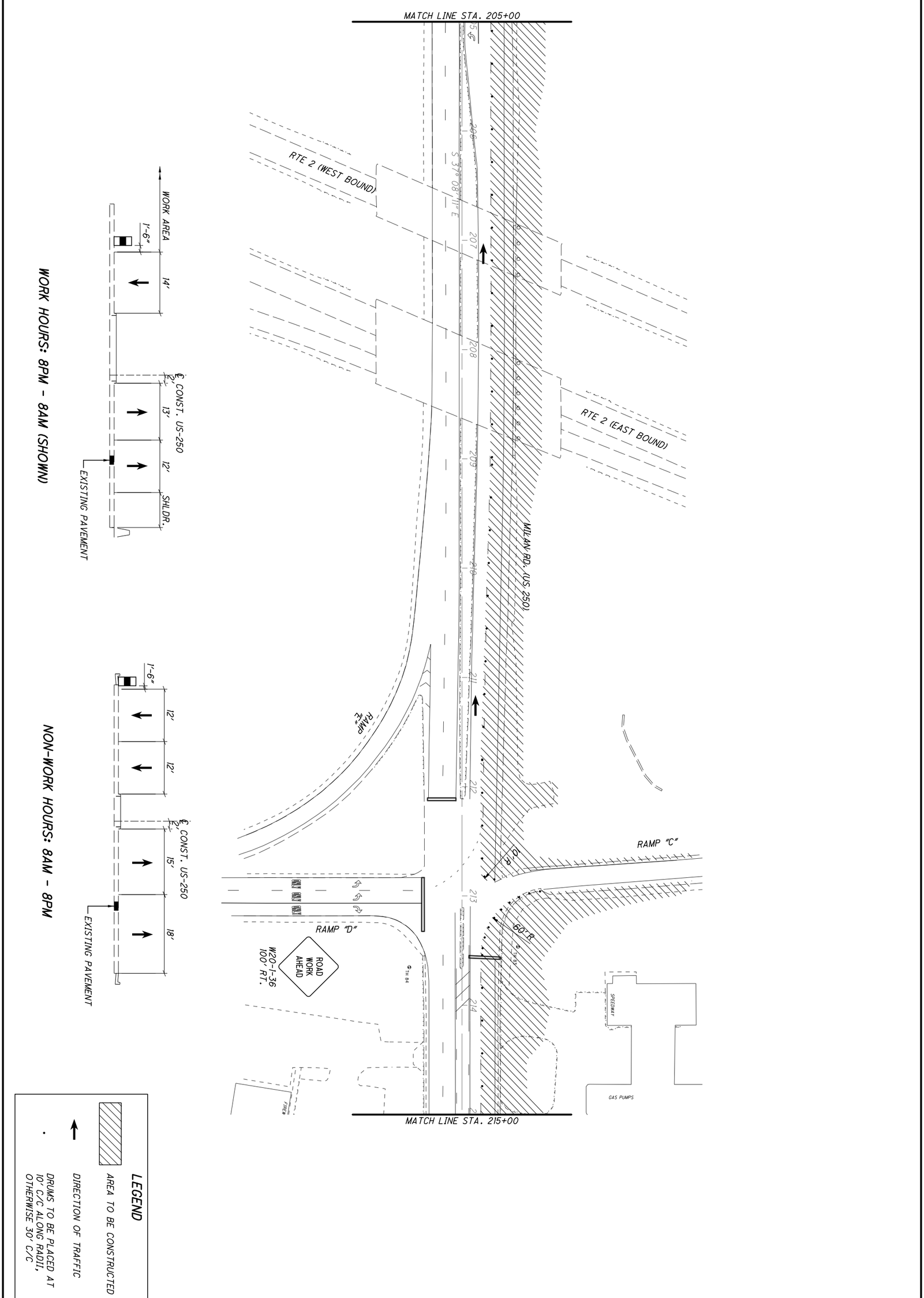
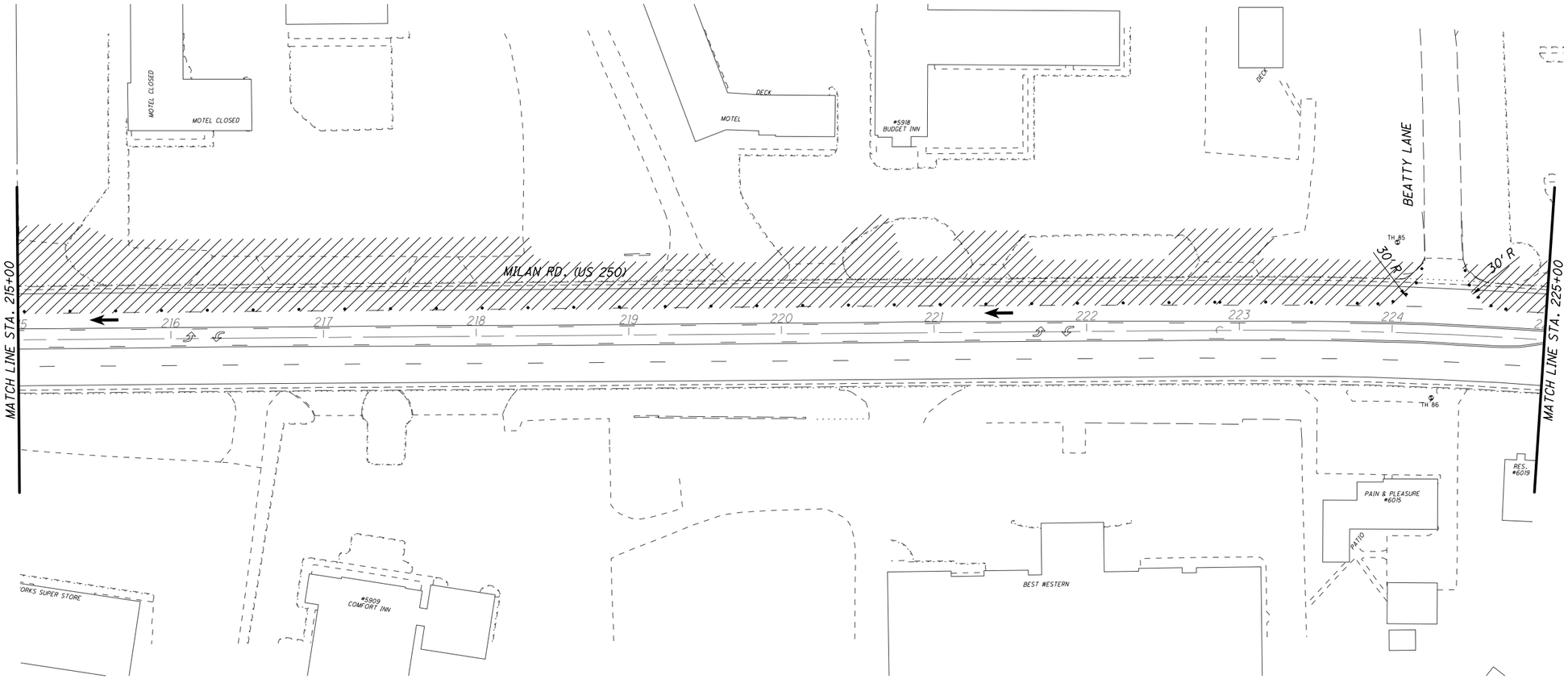
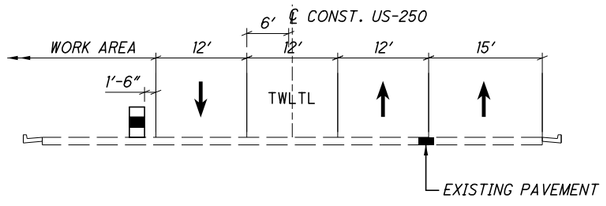
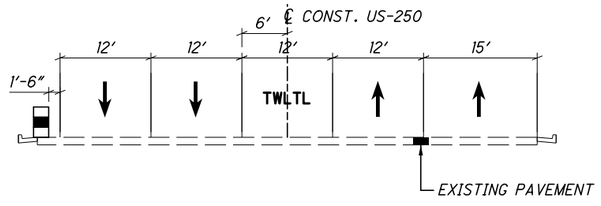


51 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET





WORK HOURS: 8PM - 8AM (SHOWN)



NON-WORK HOURS: 8AM - 8PM

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE TWO

ERI-250-0.00

52
677

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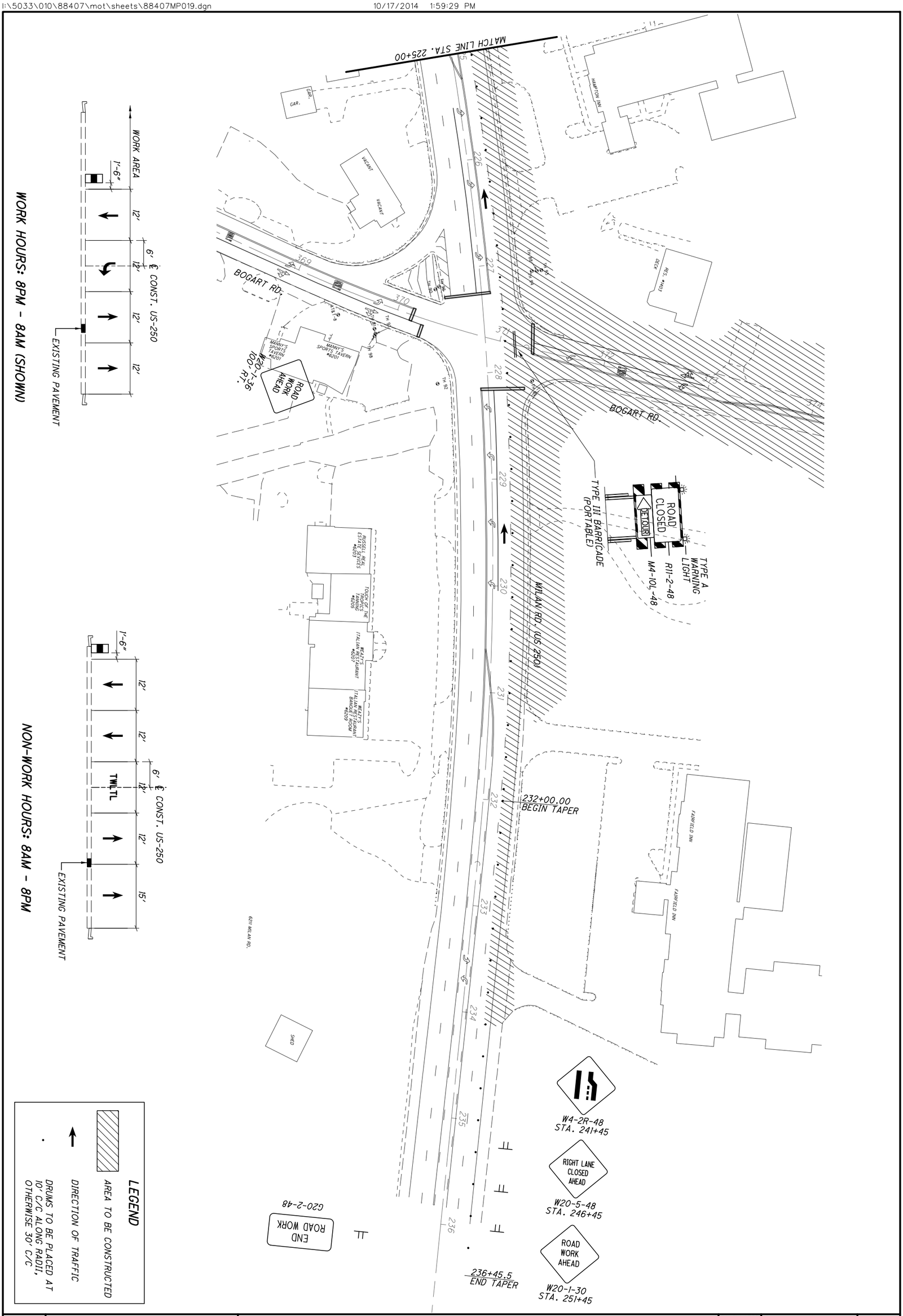

53 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE TWO	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET

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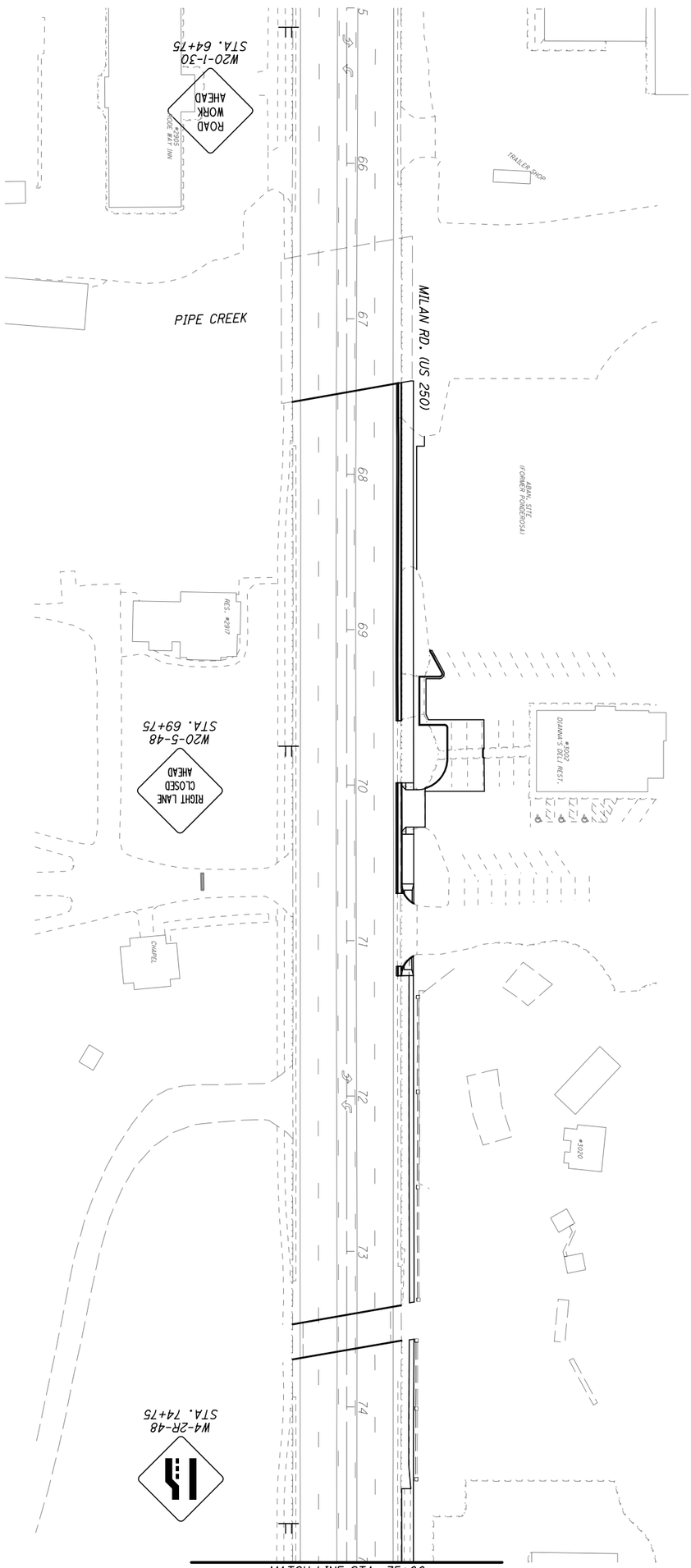


LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

54
677

ERI-250-0.00

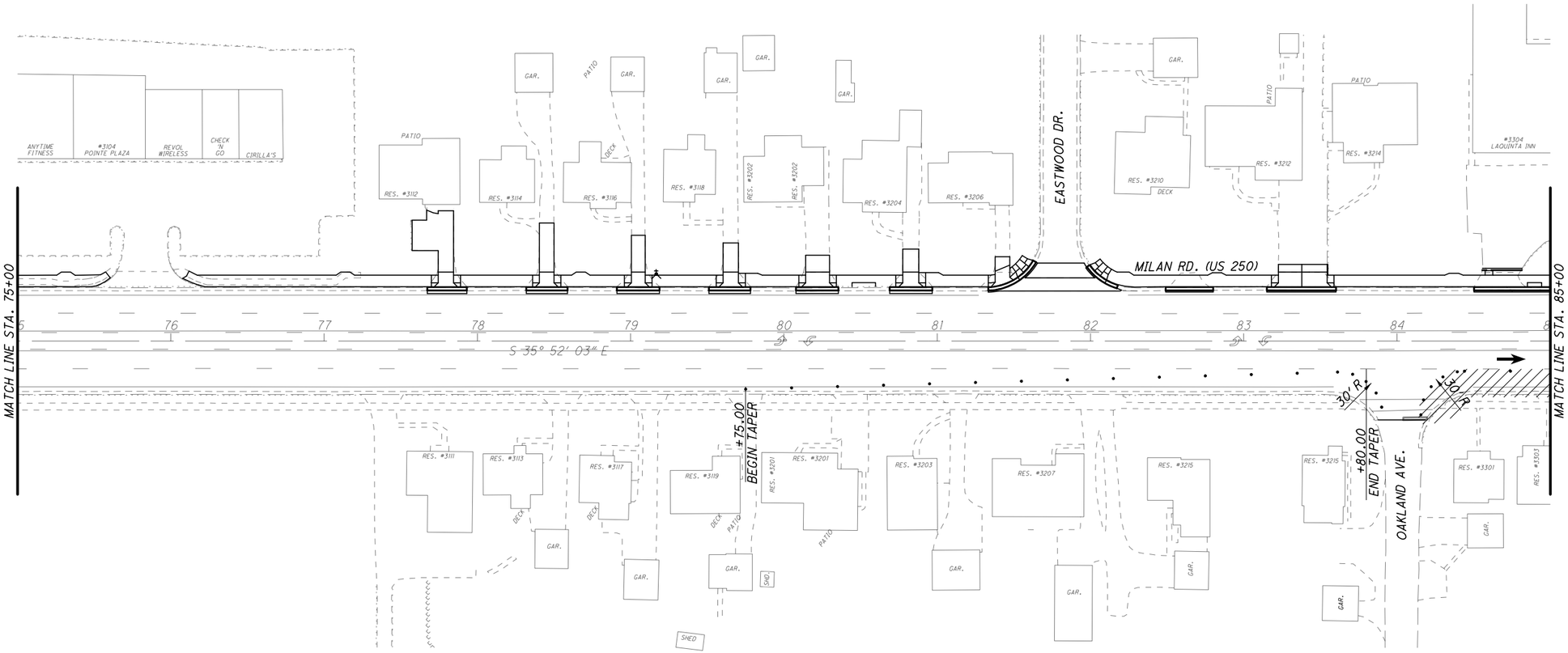
MAINTENANCE OF TRAFFIC
PHASE THREE

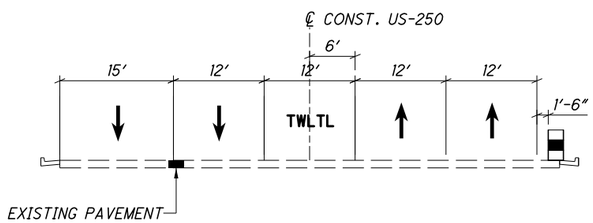
CALCULATED

CHECKED

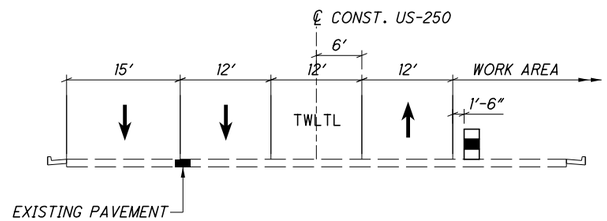
0 20 40 80
HORIZONTAL SCALE IN FEET

N





NON-WORK HOURS: 4PM - 6AM



WORK HOURS: 6AM - 4PM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE THREE

ERI-250-0.00

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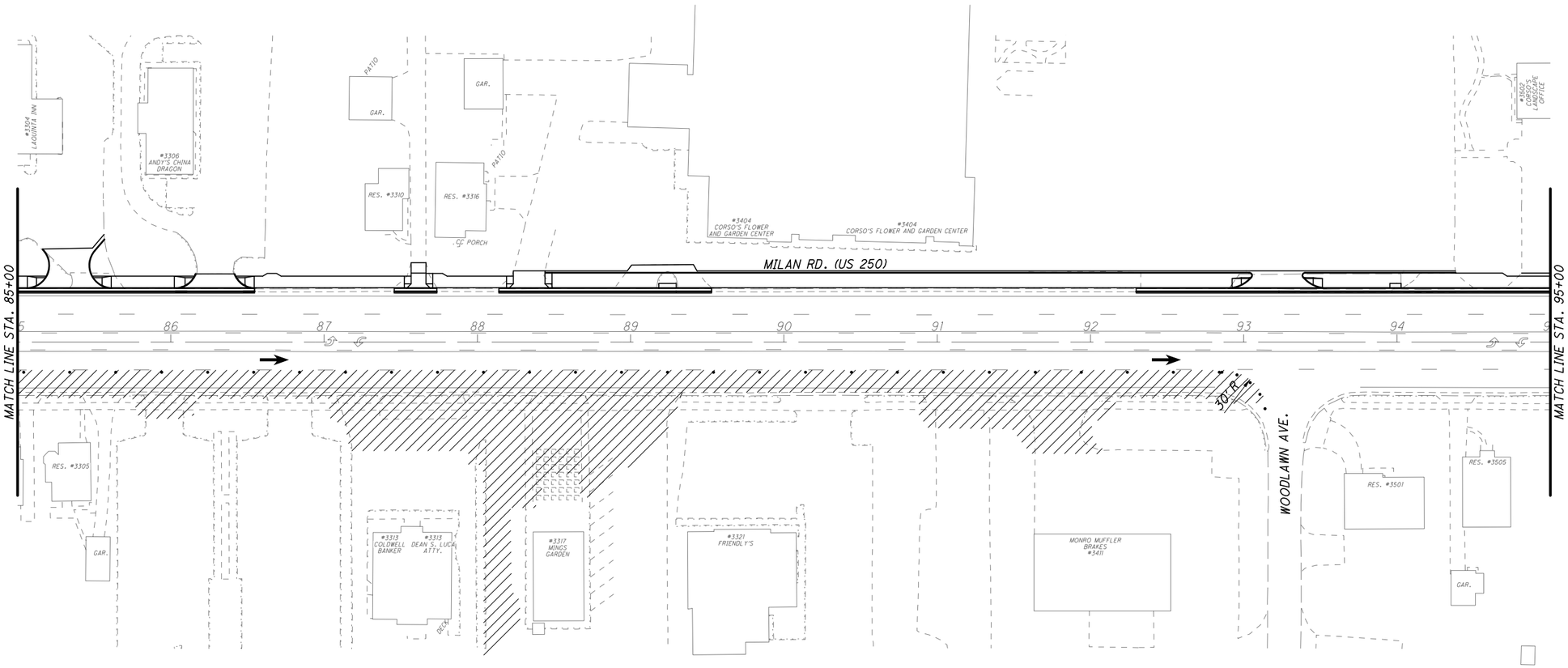
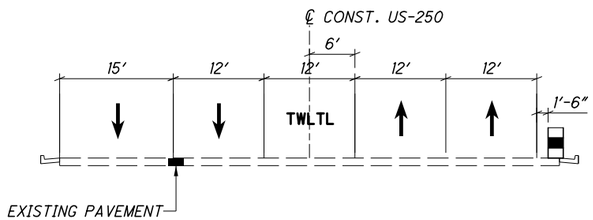
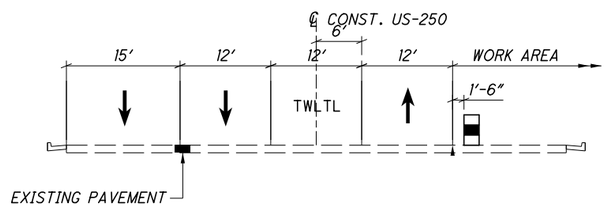




NON-WORK HOURS: 4PM - 6AM



WORK HOURS: 6AM - 4PM (SHOWN)

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC PHASE THREE

ERI-250-0.00

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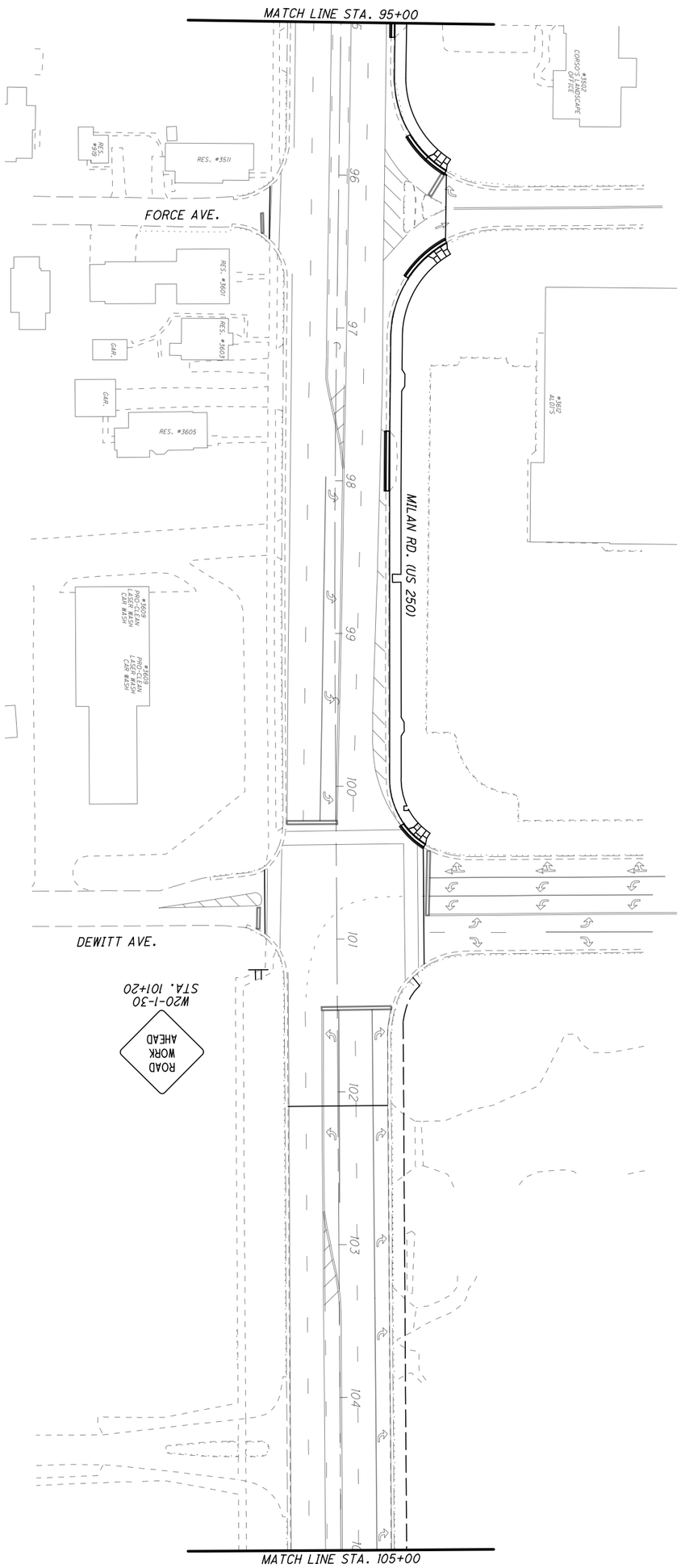


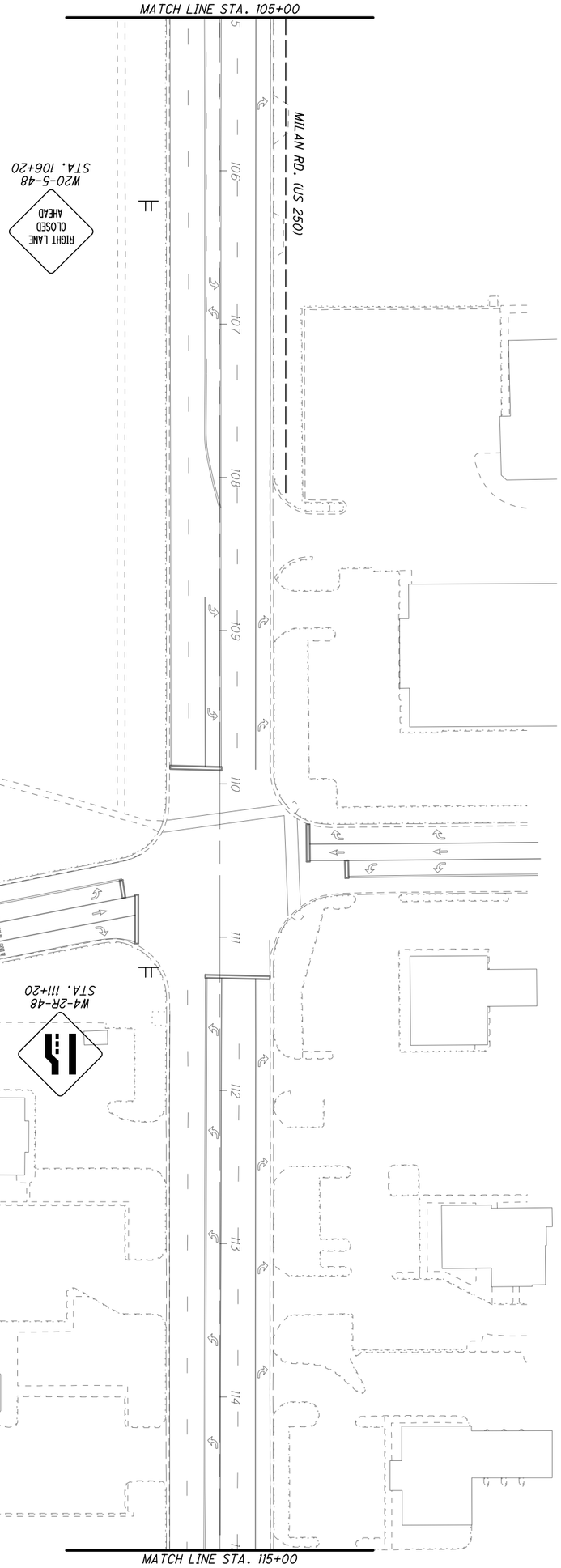
LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

57 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE THREE	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET



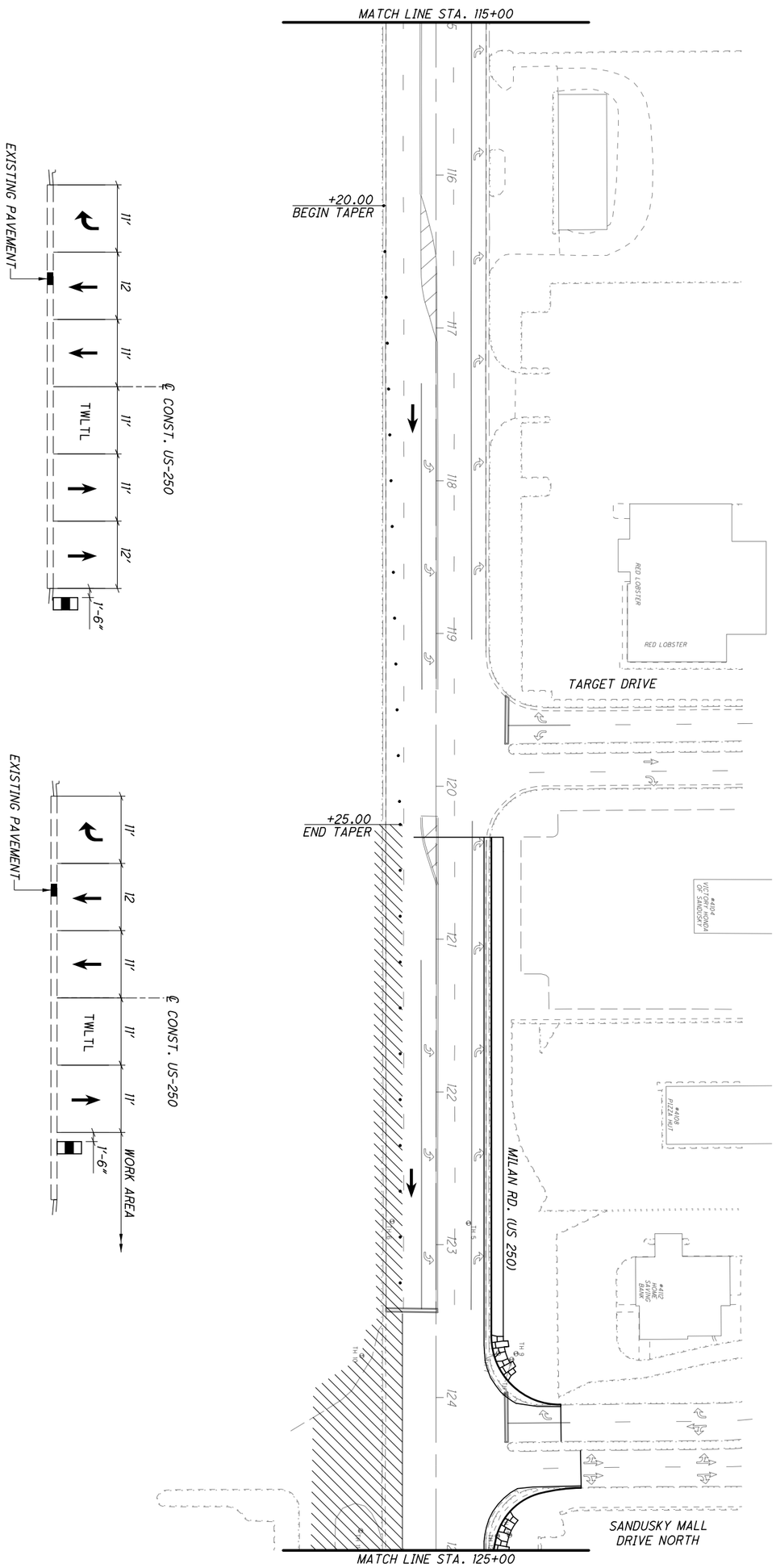
LEGEND

AREA TO BE CONSTRUCTED

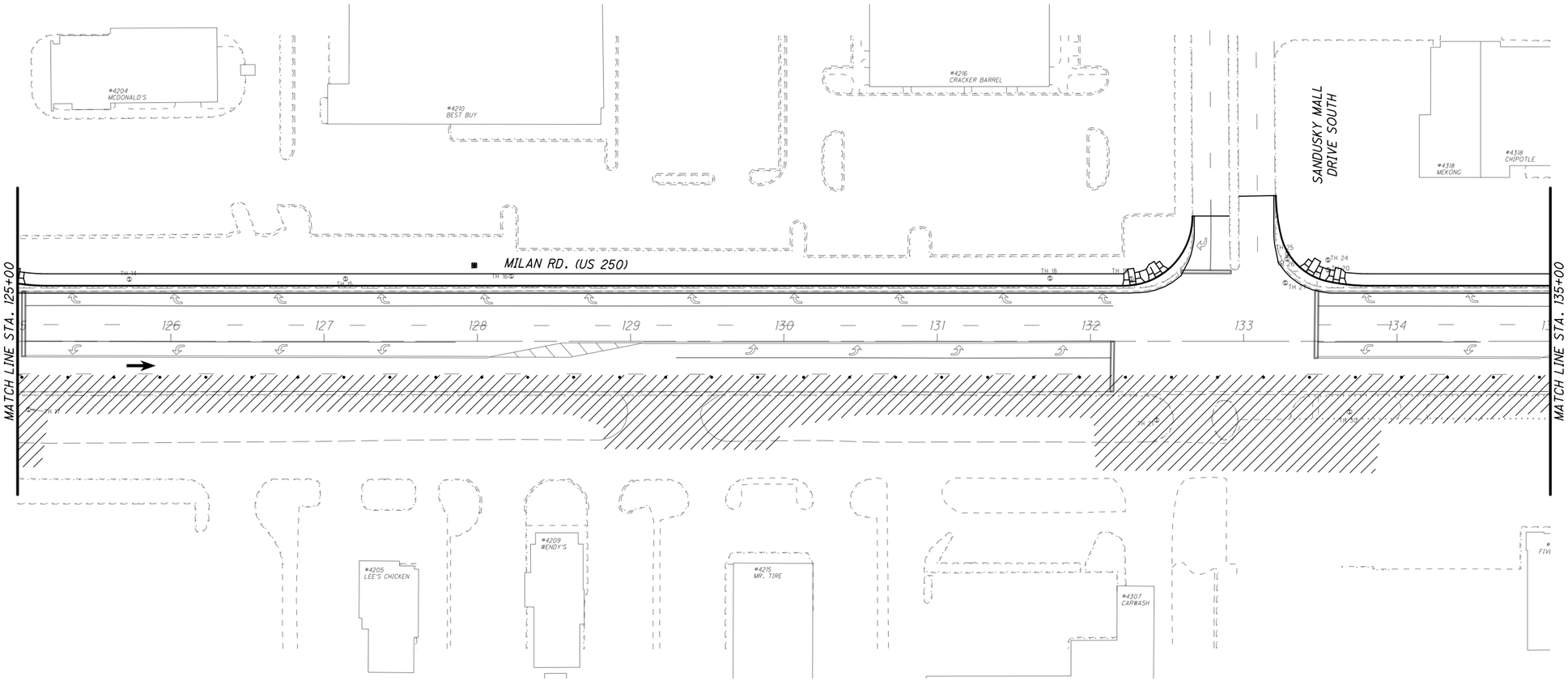
DIRECTION OF TRAFFIC

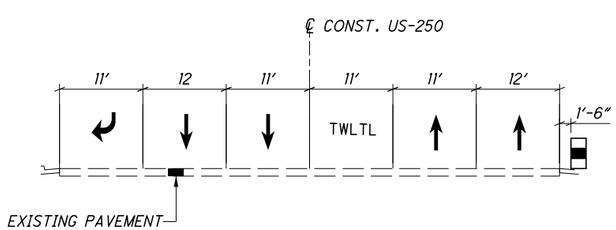
DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

58 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE THREE	CALCULATED / CHECKED	0 40 20 80 HORIZONTAL SCALE IN FEET

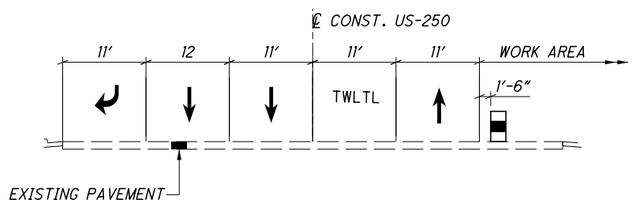


59 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE THREE	CALCULATED / CHECKED; 0 20 40 80 HORIZONTAL SCALE IN FEET; N





NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

60
677

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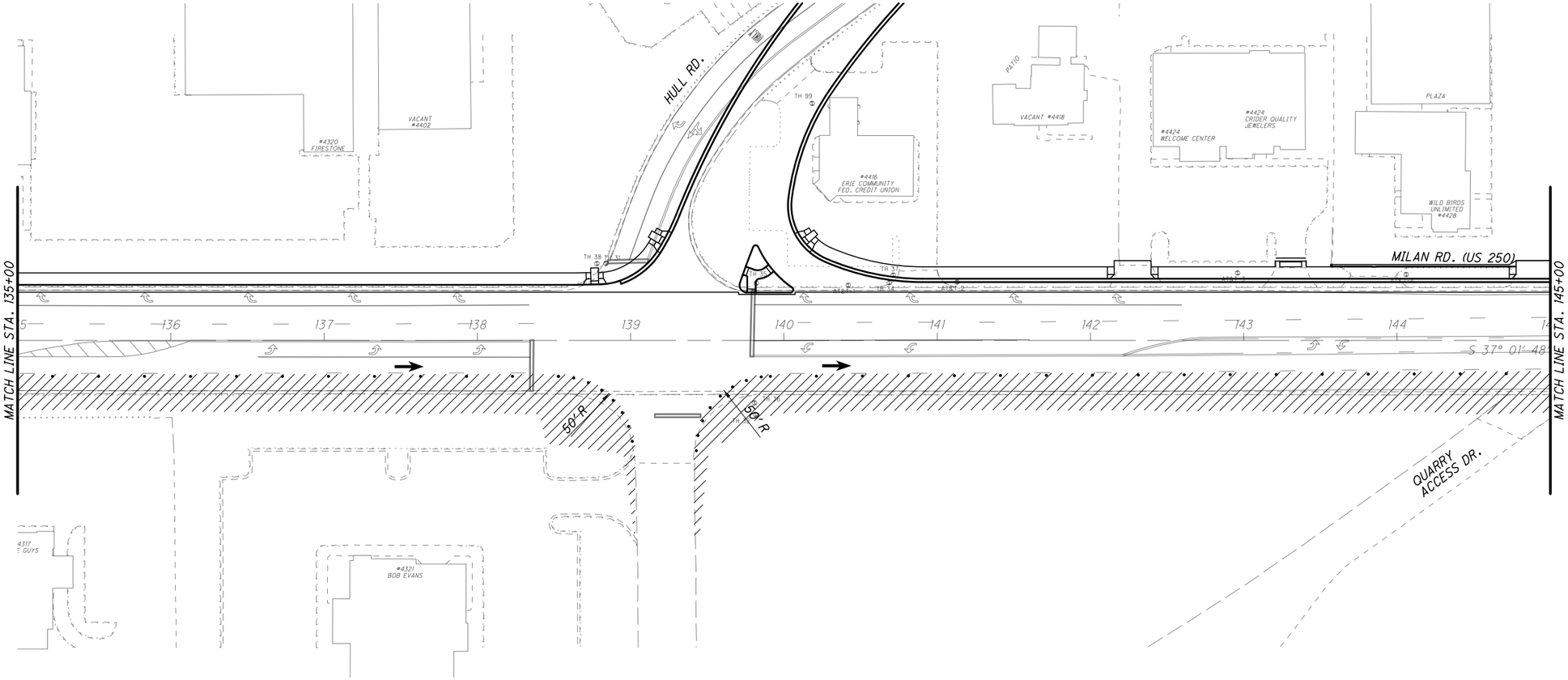
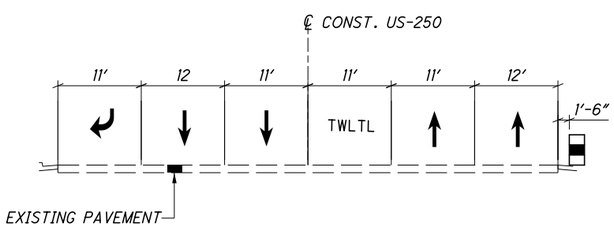
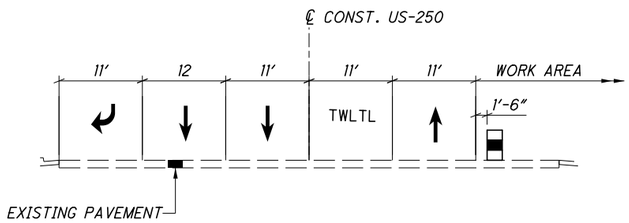




NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

0 20 40 80 HORIZONTAL SCALE IN FEET

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

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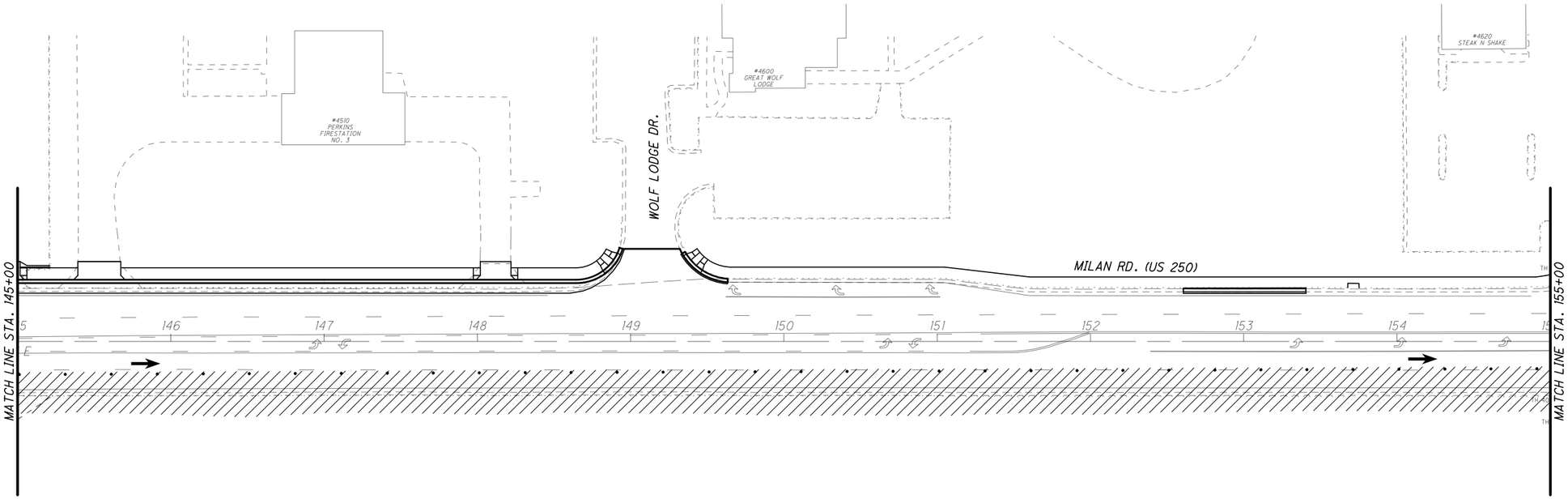
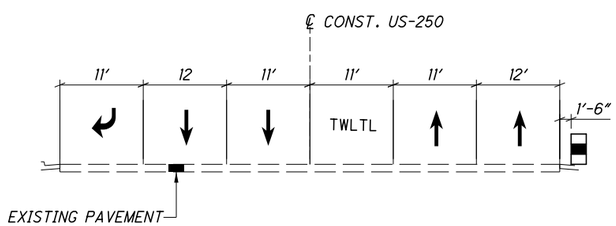
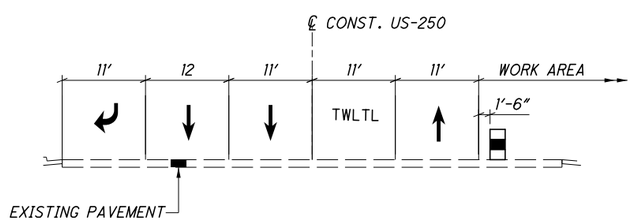




NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

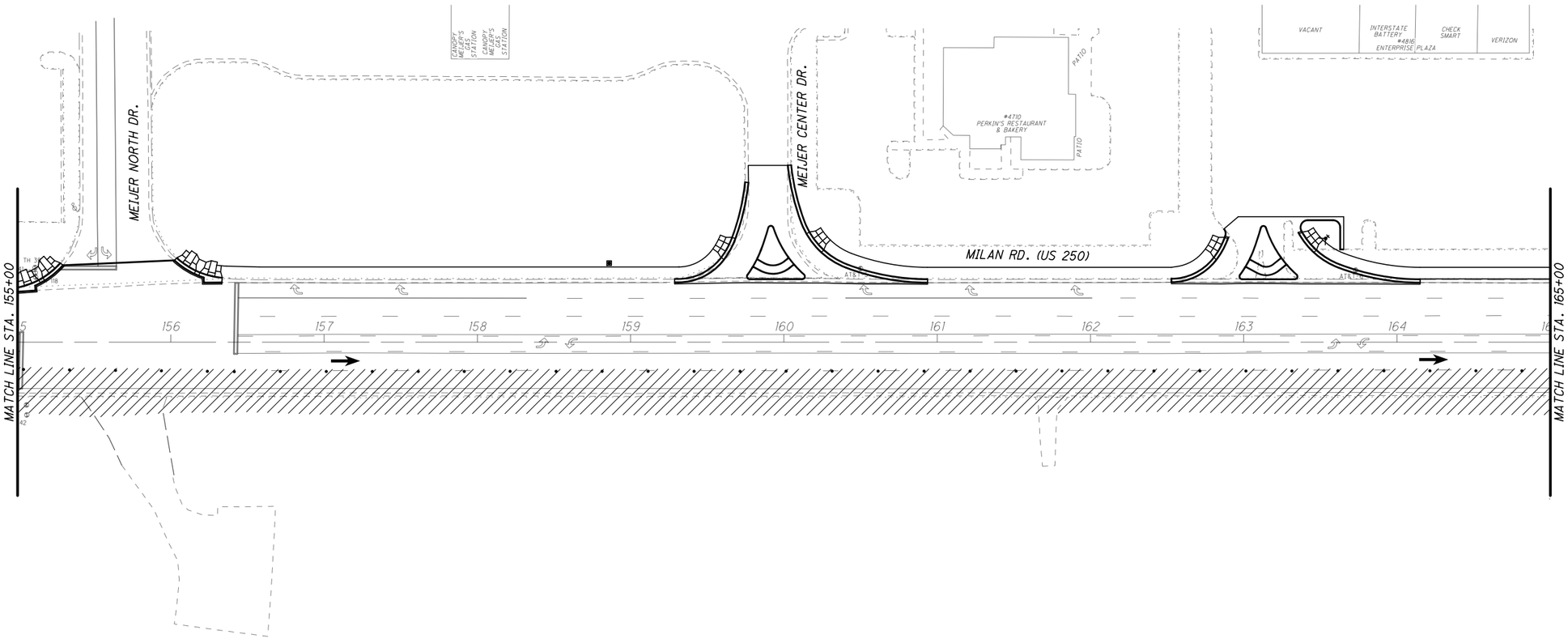
CALCULATED | CHECKED

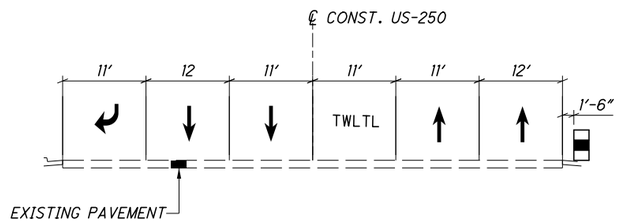
MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

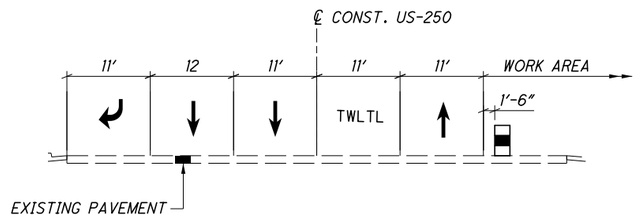
10/17/2014 1:59:39 PM

I:\5033\010\88407\mot\sheets\88407MP032.dgn





NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

63
677

10/17/2014 1:59:40 PM

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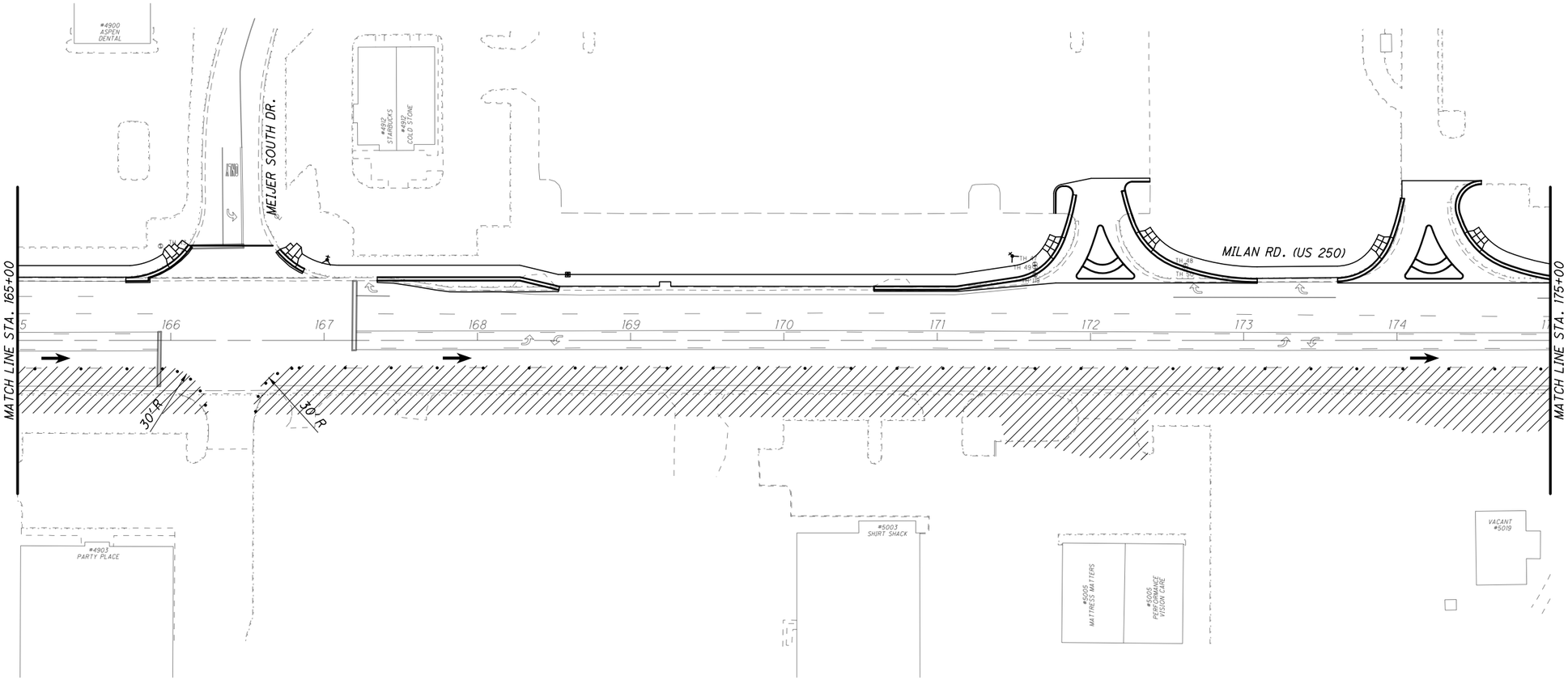
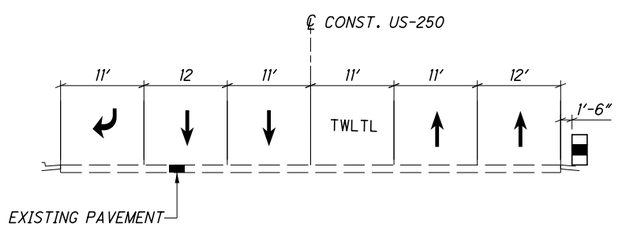
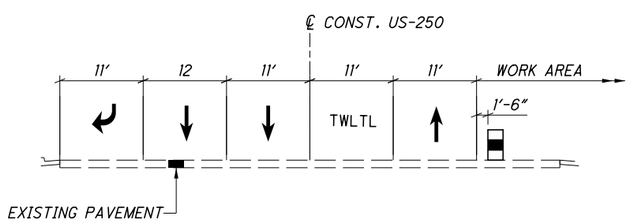




NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

10/17/2014 1:59:41 PM
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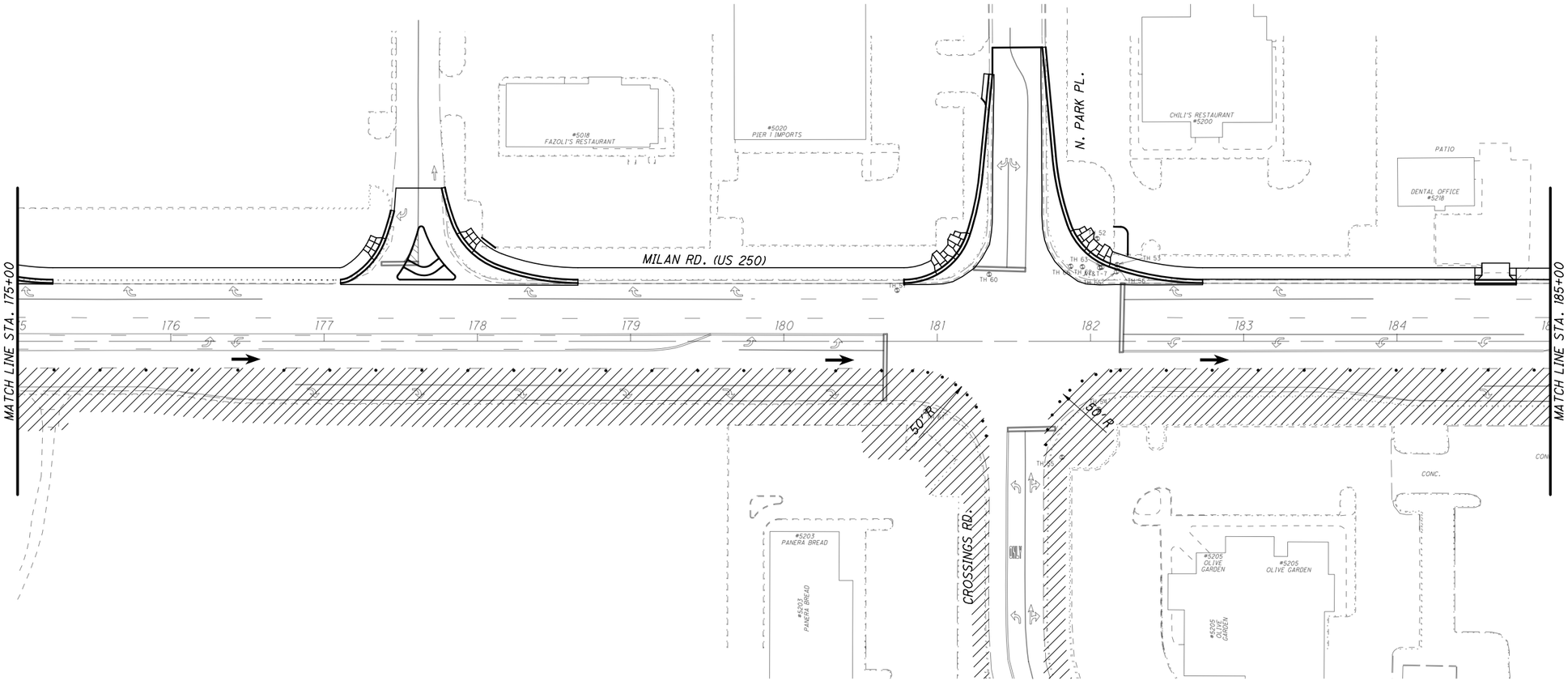
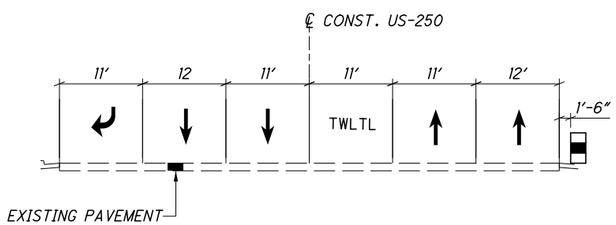
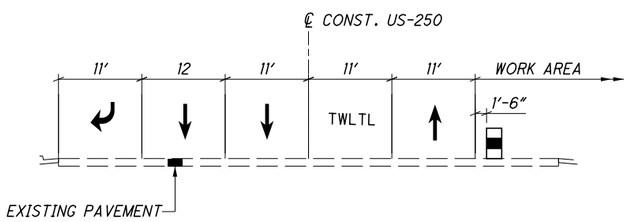




NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

10/17/2014 1:59:42 PM

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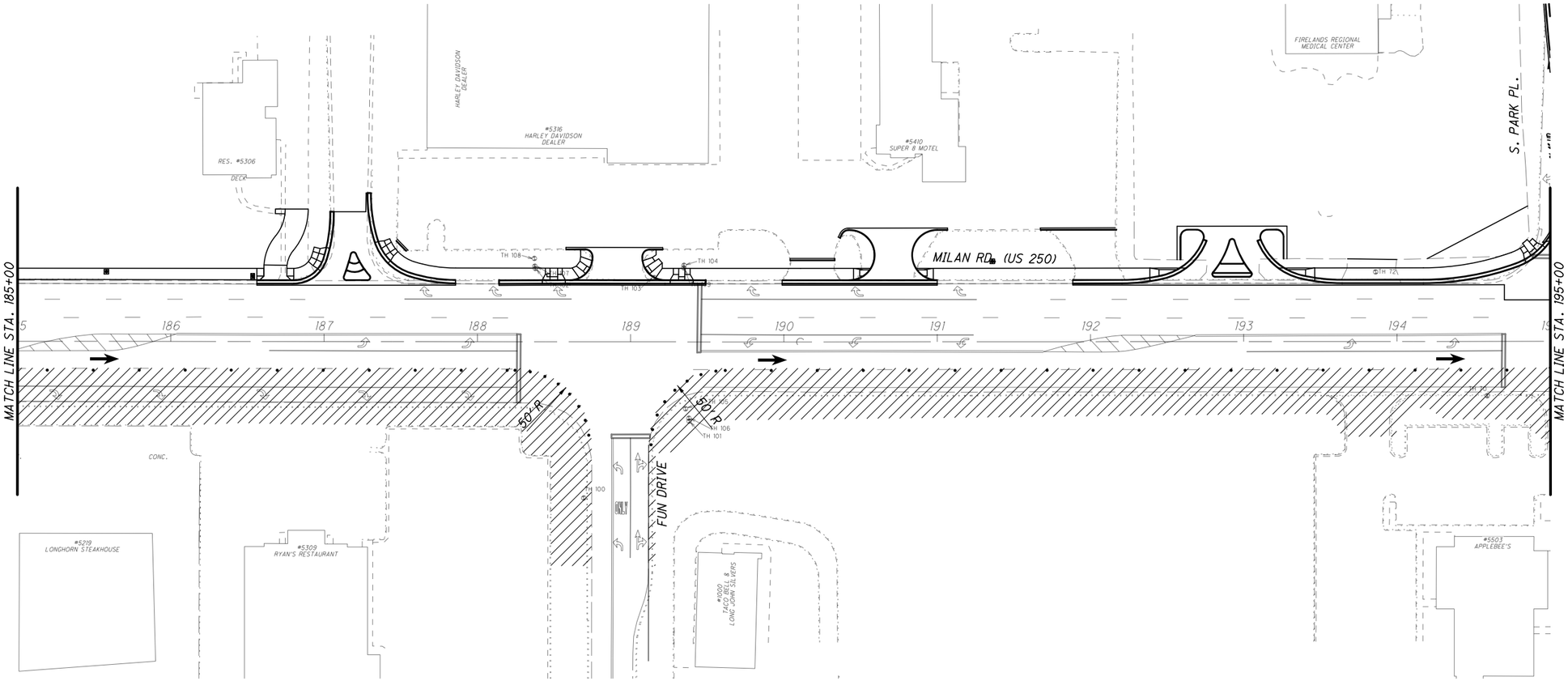
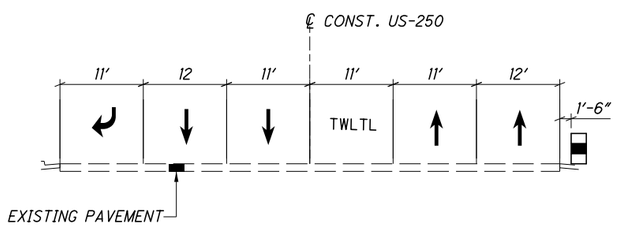
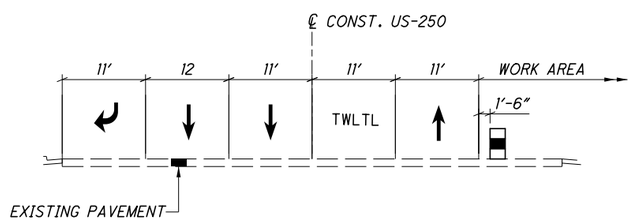




NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10′ C/C ALONG RADII, OTHERWISE 30′ C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

10/17/2014 1:59:43 PM
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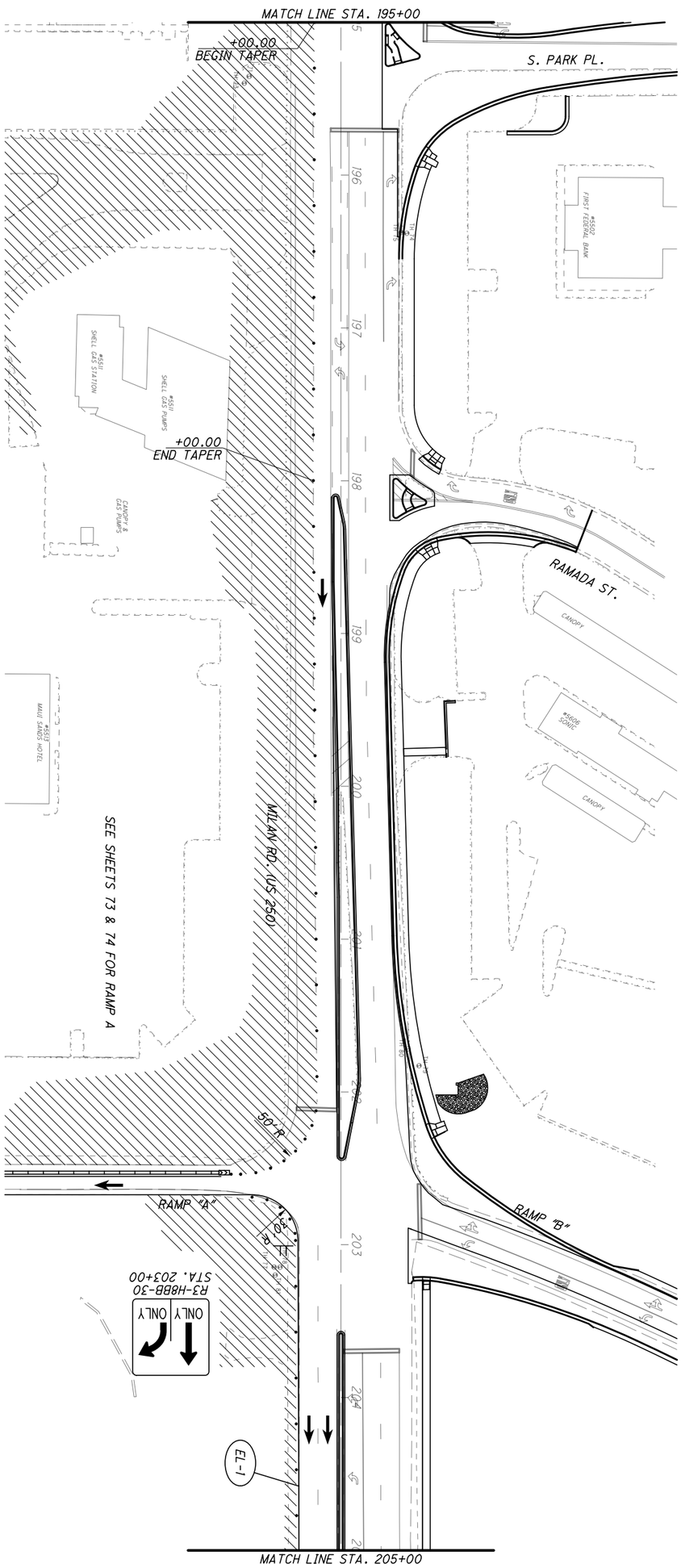


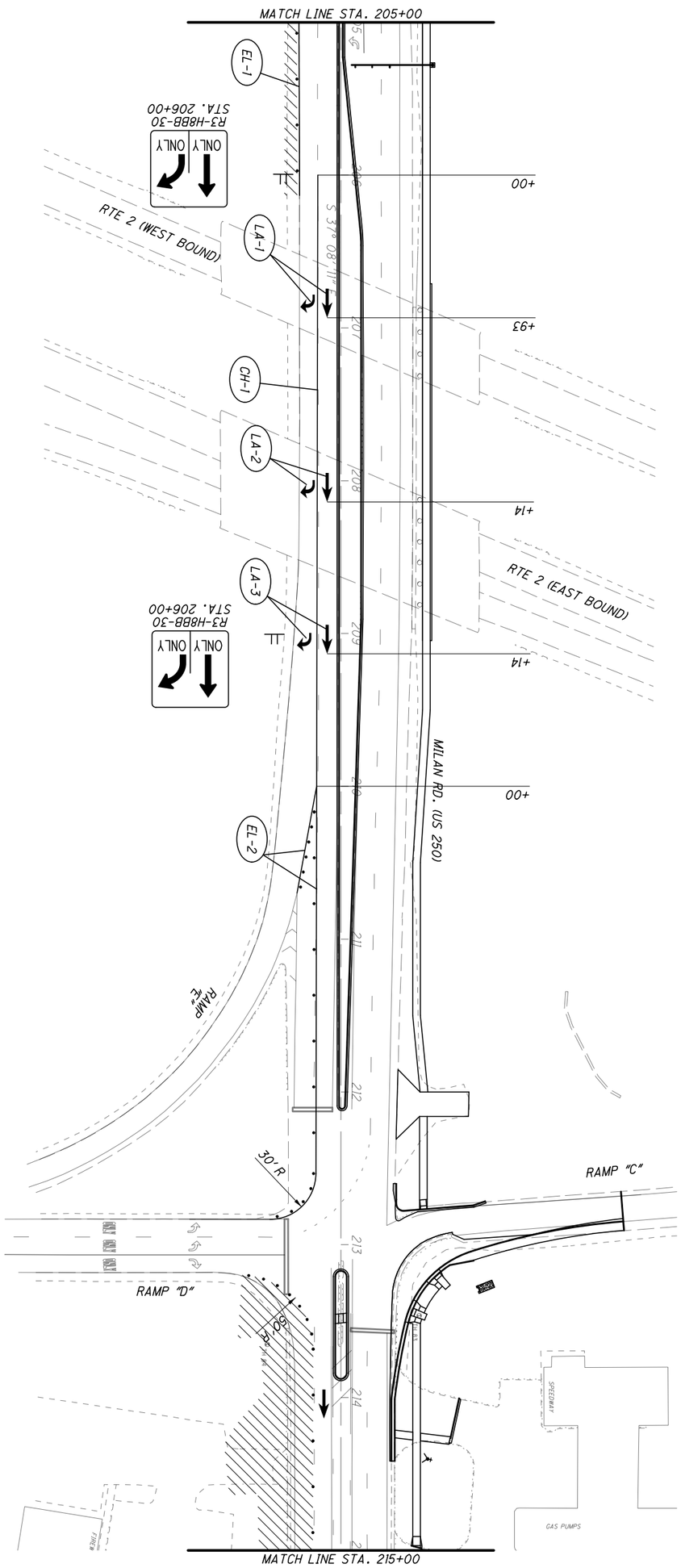
LEGEND

AREA TO BE CONSTRUCTED

DIRECTION OF TRAFFIC

DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

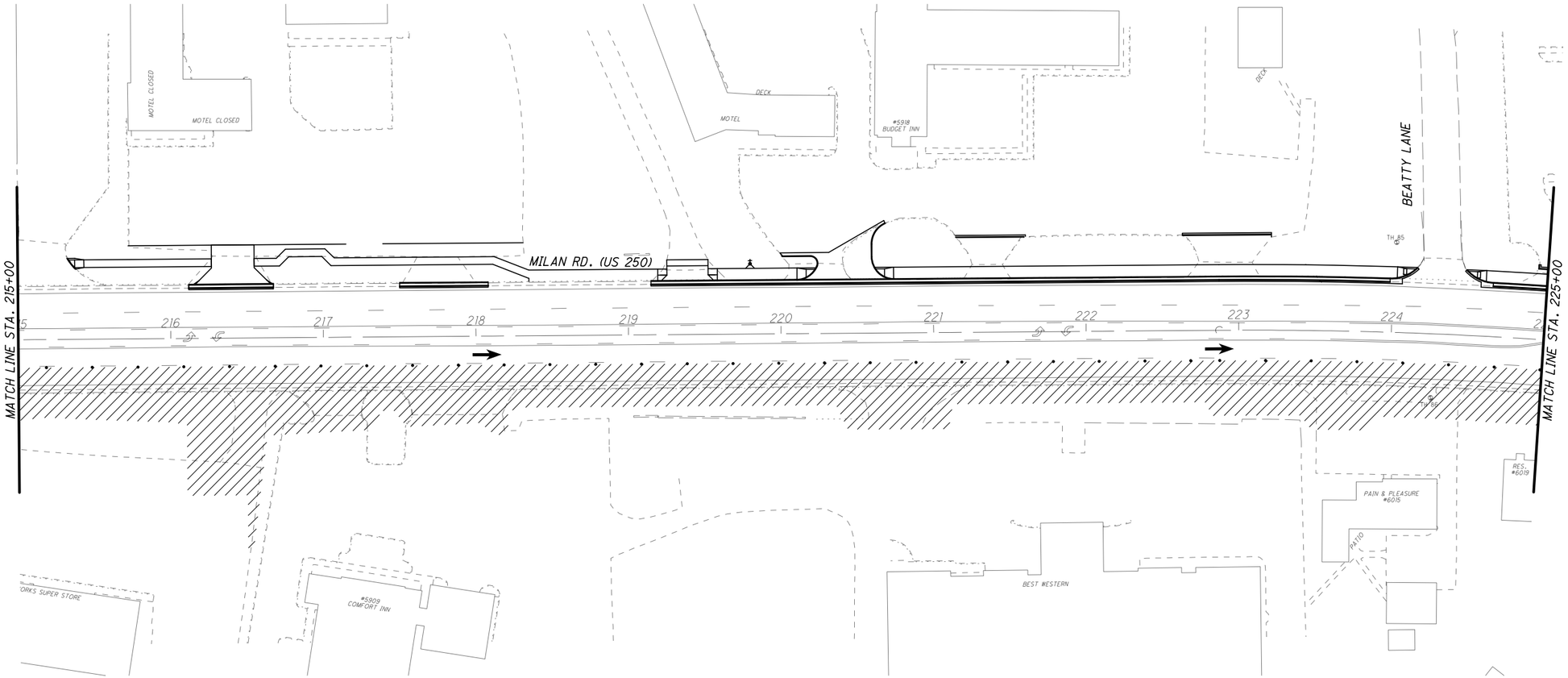
67 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE THREE	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET

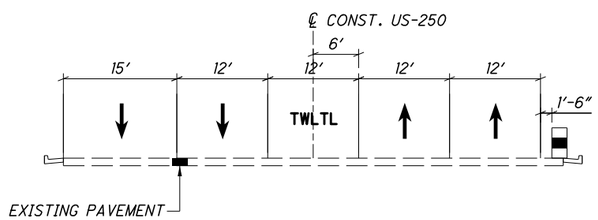


LEGEND

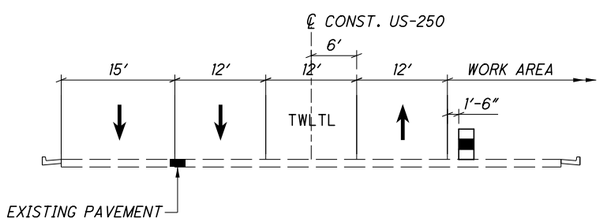
- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

68 / 677	ERI-250-0.00	MAINTENANCE OF TRAFFIC PHASE THREE	CALCULATED / CHECKED	0 20 40 80 HORIZONTAL SCALE IN FEET





NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

0 20 40 80 HORIZONTAL SCALE IN FEET

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

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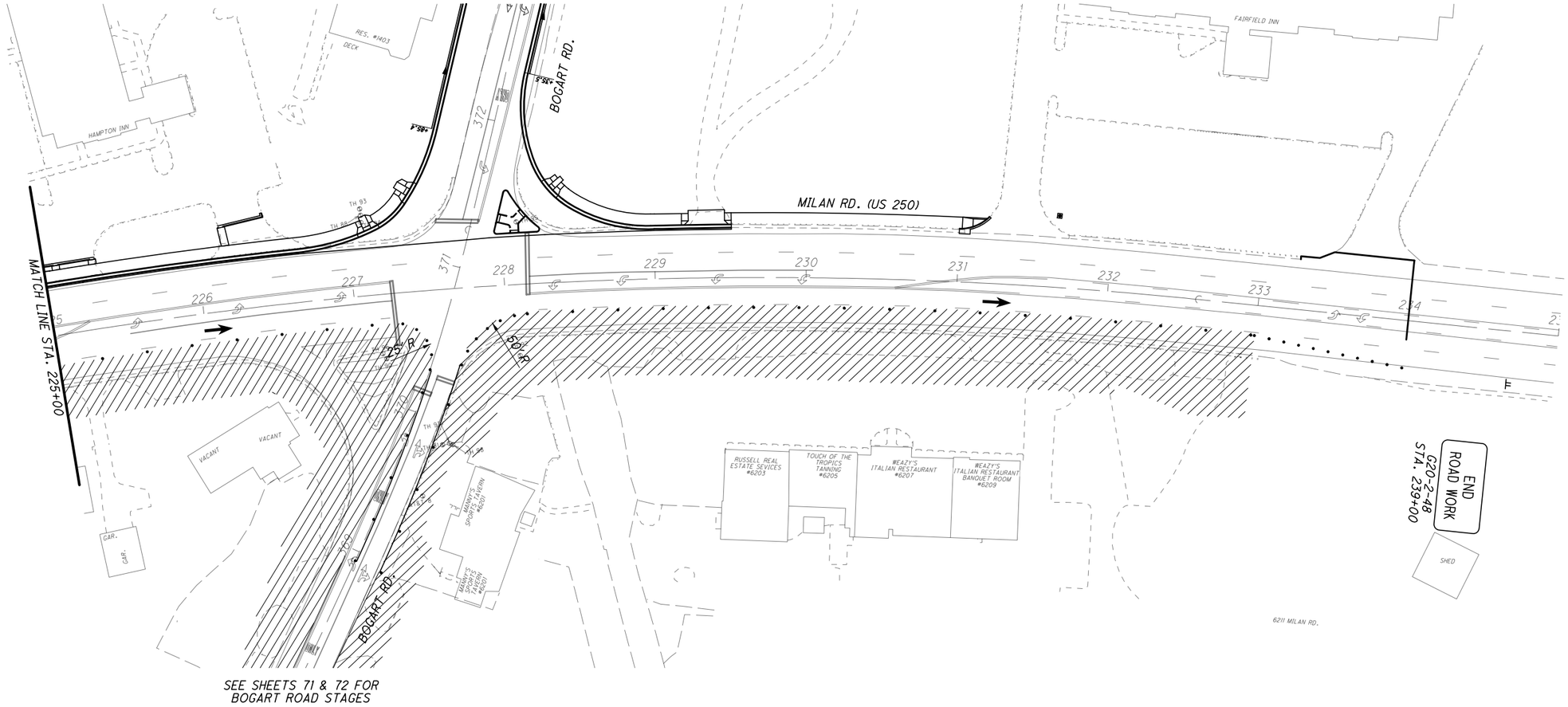
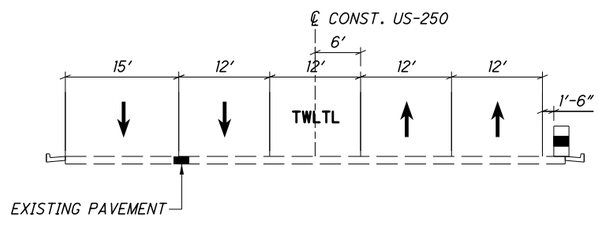
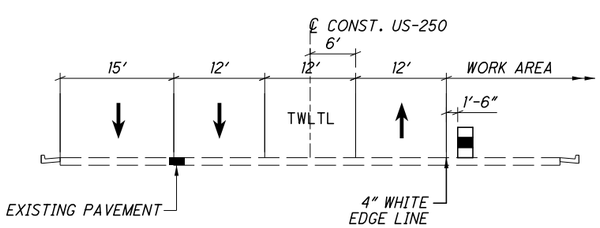


SEE SHEETS 71 & 72 FOR BOGART ROAD STAGES



NON-WORK HOURS: 8AM - 8PM



WORK HOURS: 8PM - 8AM (SHOWN)

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
PHASE THREE

ERI-250-0.00

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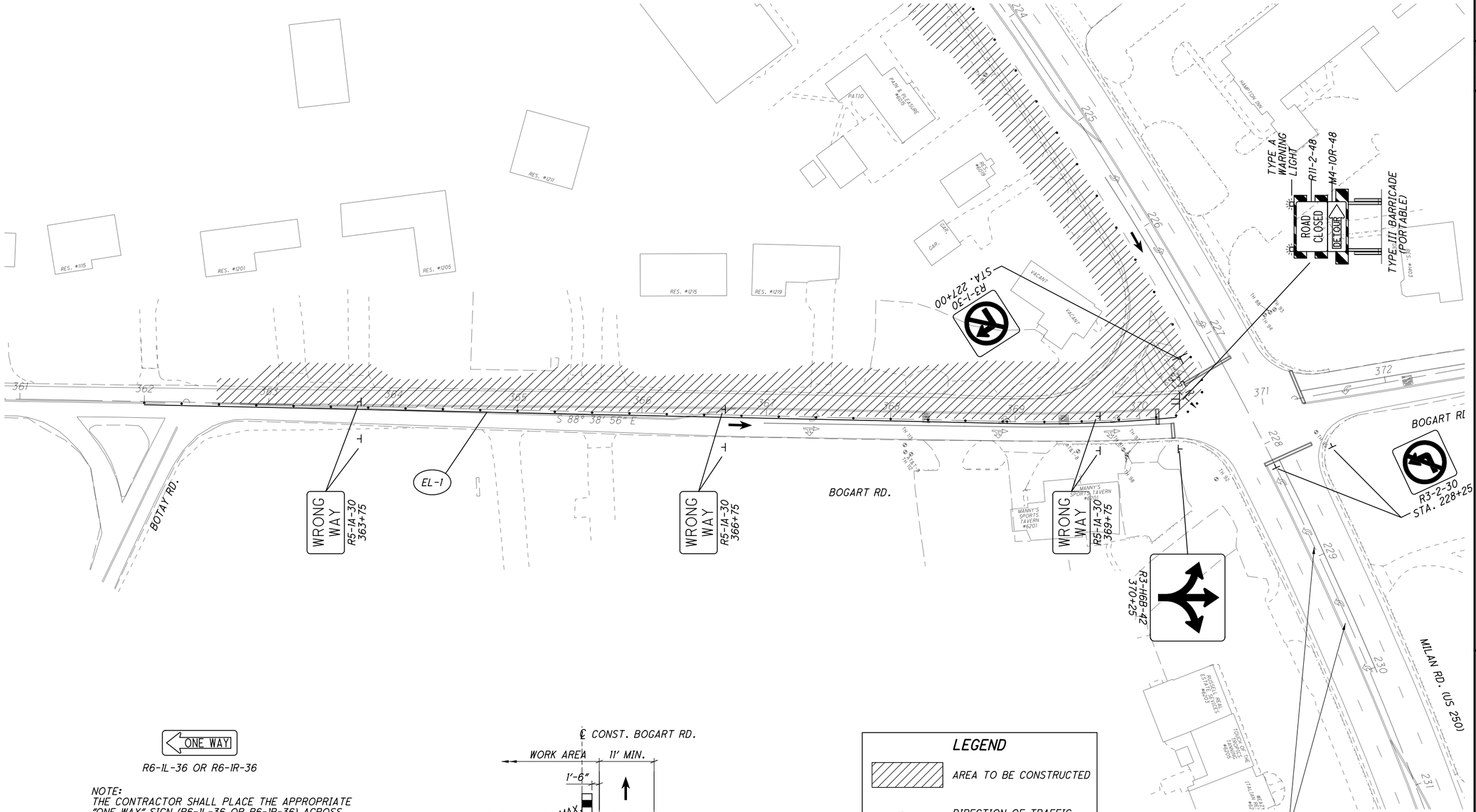
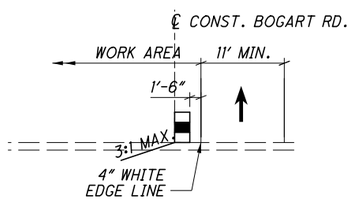


ONE WAY

R6-1L-36 OR R6-1R-36

NOTE:
THE CONTRACTOR SHALL PLACE THE APPROPRIATE "ONE WAY" SIGN (R6-1L-36 OR R6-1R-36) ACROSS FROM ALL DRIVES AS DIRECTED BY THE ENGINEER. THE COST OF PLACING AND REMOVING THESE SIGNS SHALL BE INCLUDED WITH ITEM 614.



LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
BOGART ROAD - STAGE ONE

ERI-250-0.00

71
677

10/17/2014 1:59:48 PM

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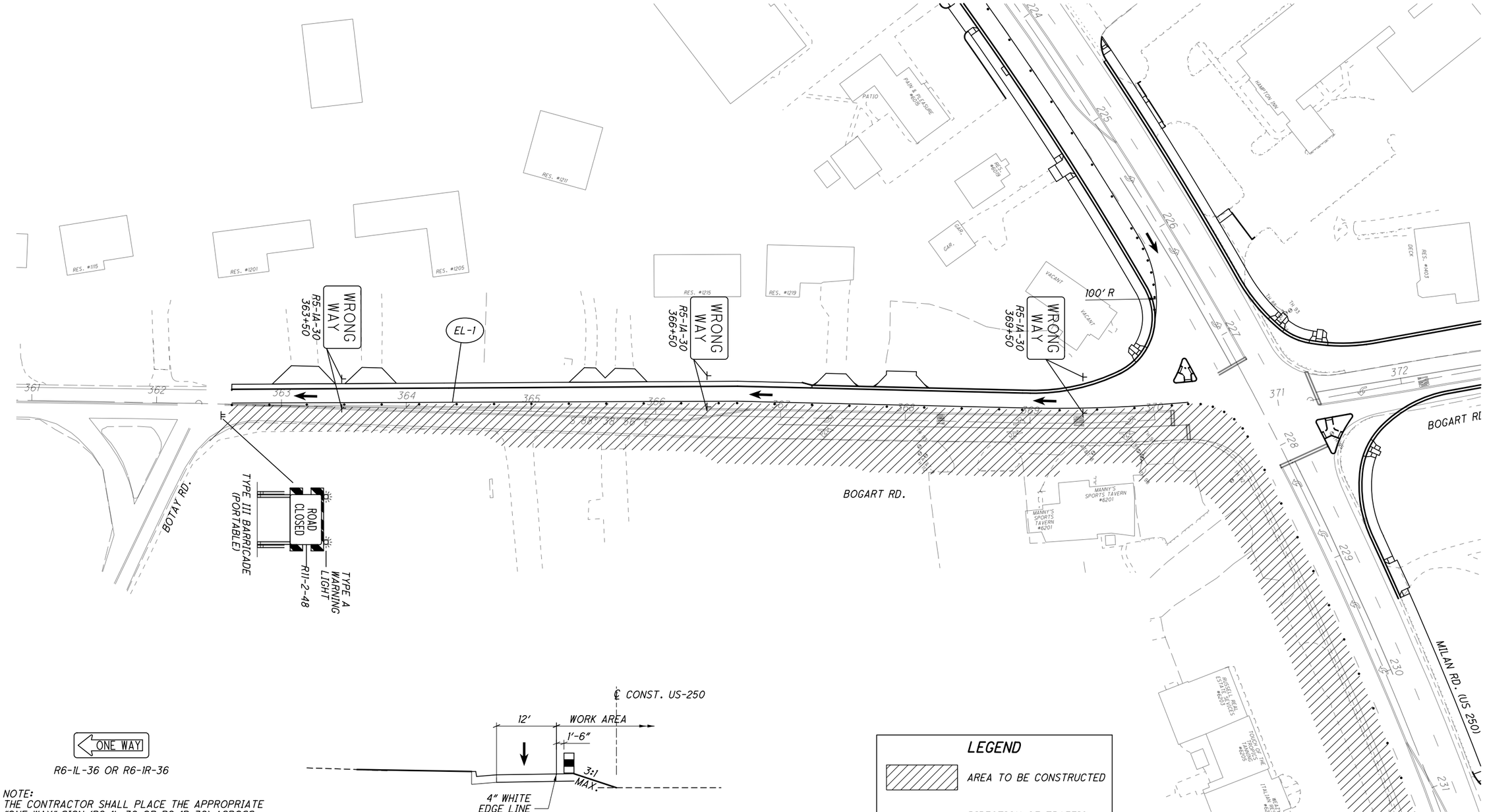

NOTE:
THE CONTRACTOR SHALL PLACE THE APPROPRIATE "ONE WAY" SIGN (R6-1L-36 OR R6-1R-36) ACROSS FROM ALL DRIVES AS DIRECTED BY THE ENGINEER. THE COST OF PLACING AND REMOVING THESE SIGNS SHALL BE INCLUDED WITH ITEM 614.

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC
BOGART ROAD - STAGE TWO

ERI-250-0.00

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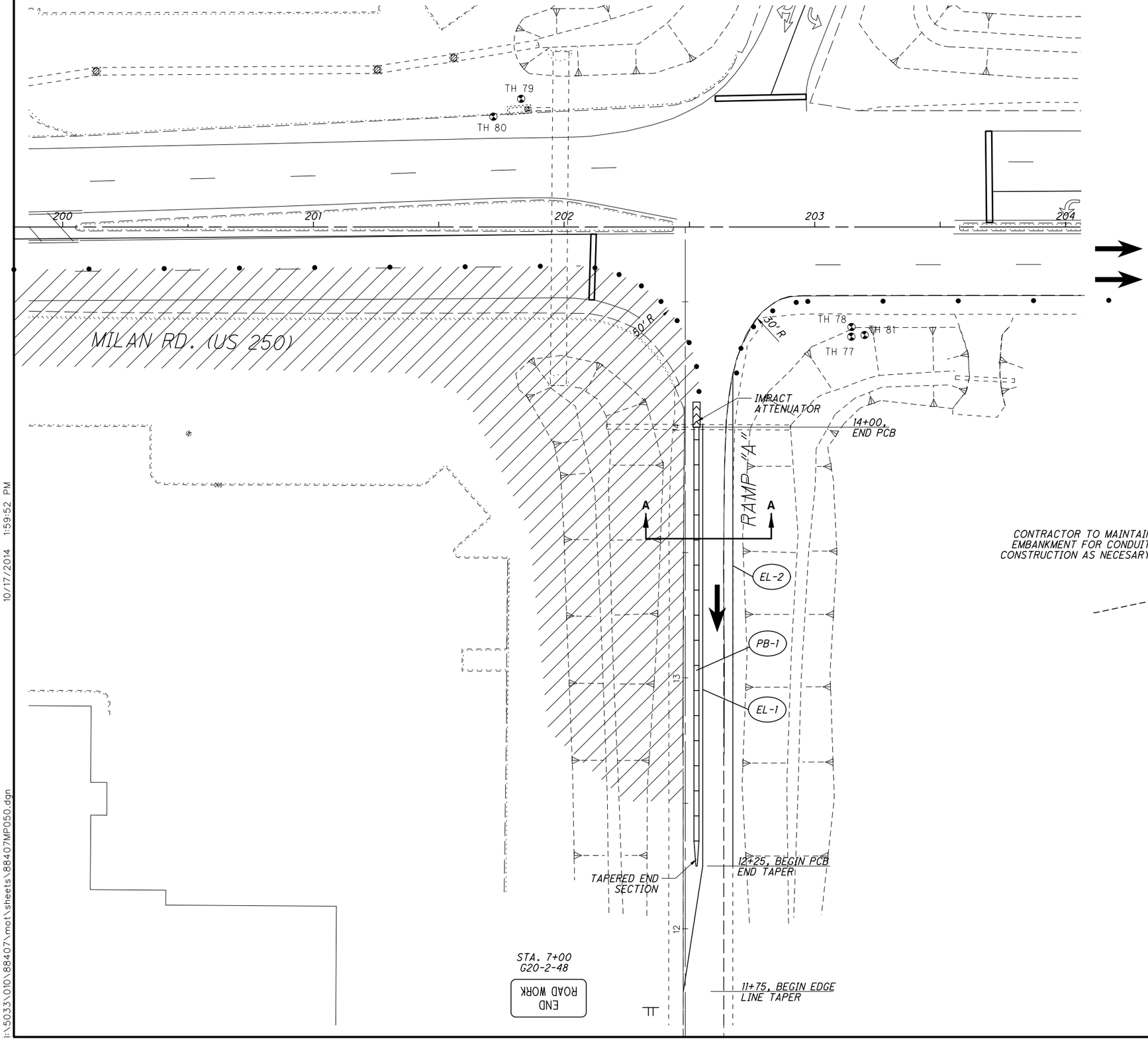

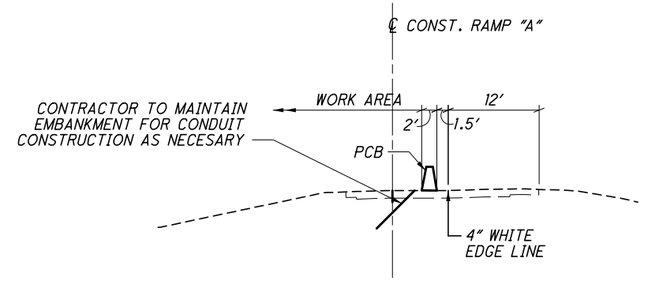

SECTION A-A

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

RAMP "A" - STAGE ONE
MAINTENANCE OF TRAFFIC PLAN

ERI-250-0.00

73
677

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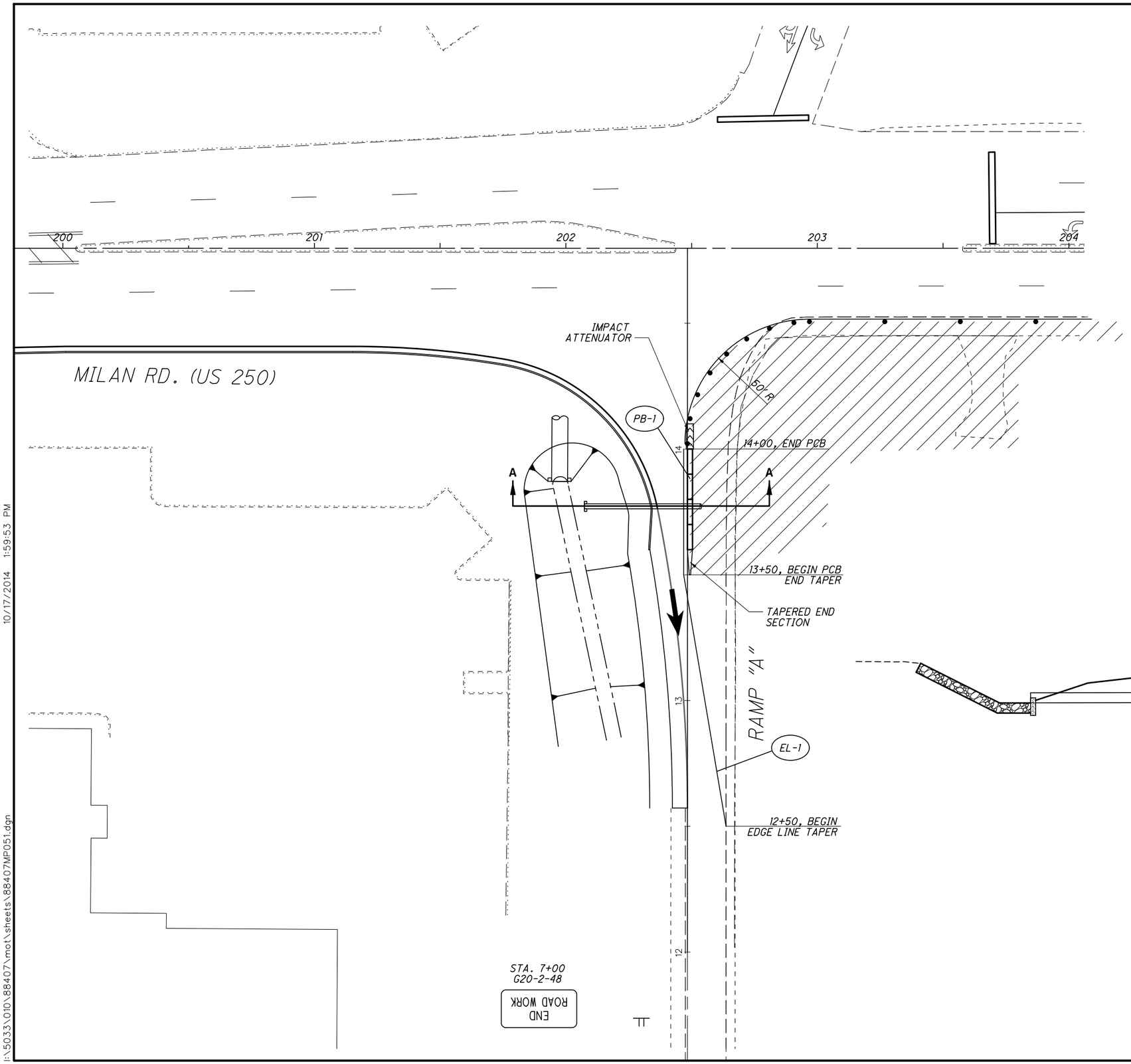

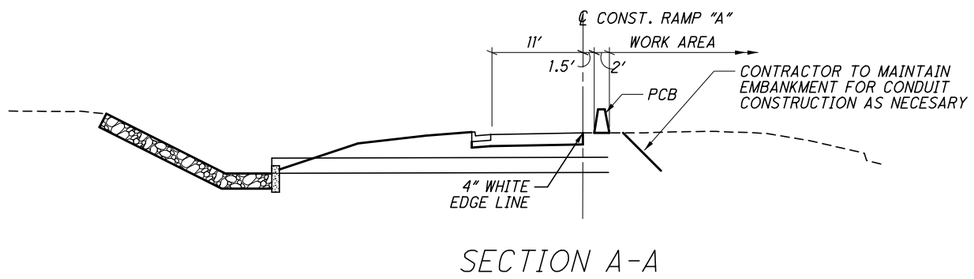

SECTION A-A

LEGEND

- AREA TO BE CONSTRUCTED
- DIRECTION OF TRAFFIC
- DRUMS TO BE PLACED AT 10' C/C ALONG RADII, OTHERWISE 30' C/C

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

RAMP "A" - STAGE TWO MAINTENANCE OF TRAFFIC PLAN

ERI-250-0.00

74
677

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SHEET NUMBER																PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
21	24	79	80	83	87	88	89	90	91	92	93	94	95	320	509	520	01/SAF/ OT/ERI	02/SAF/ OT/ECSE					
																						ROADWAY	
LUMP																	LUMP		201	11000	LUMP		CLEARING AND GRUBBING	
						39104											39104		202	23000	39104	SQ YD	PAVEMENT REMOVED	
			301														301		202	23800	301	SQ YD	BASE REMOVED	
						6268											6268		202	30000	6268	SQ FT	WALK REMOVED	
						1117											1117		202	30800	1117	SQ YD	TRAFFIC ISLAND REMOVED	
						8053											8053		202	32000	8053	FT	CURB REMOVED	
						15638											15638		202	32500	15638	FT	CURB AND GUTTER REMOVED	
									54	269	411	669	45				1448		202	35100	1448	FT	PIPE REMOVED, 24" AND UNDER	
									60	50	46	20					176		202	35200	176	FT	PIPE REMOVED, OVER 24"	
							414										414		202	38000	414	FT	GUARDRAIL REMOVED	
								31									31		202	53100	31	EACH	MAILBOX REMOVED	
							LUMP										LUMP		202	56001	LUMP		BUILDING DEMOLISHED, AS PER PLAN	21
									2		2	1					5		202	58000	5	EACH	MANHOLE REMOVED	
									6	19	6	16	4				51		202	58100	51	EACH	CATCH BASIN REMOVED	
									1	2	3						6		202	58200	6	EACH	INLET REMOVED	
													1				1		202	58700	1	EACH	MANHOLE ABANDONED	
										79							79		SPECIAL	20270000	79	FT	FILL AND PLUG EXISTING CONDUIT	
							289										289		202	75000	289	FT	FENCE REMOVED	
							6										6		202	98100	6	EACH	REMOVAL MISC.: COMMERCIAL SIGN	
				13519		982											14501		203	10000	14501	CU YD	EXCAVATION	
				4614		5586											10200		203	20000	10200	CU YD	EMBANKMENT	
				46													46		203	35000	46	CU YD	GRANULAR EMBANKMENT	
		19762	8109											7813			35684		204	10000	35684	SQ YD	SUBGRADE COMPACTION	
	750																750		204	13000	750	CU YD	EXCAVATION OF SUBGRADE	
	750																750		204	21000	750	CU YD	GRANULAR EMBANKMENT	
5																	5		204	45000	5	HOUR	PROOF ROLLING	
		120537															120537		254	01000	120537	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE	
					164315												164315		608	10000	164315	SQ FT	4" CONCRETE WALK	
					11447												11447		608	52000	11447	SQ FT	CURB RAMP	
					5745												5745		608	52001	5745	SQ FT	CURB RAMP, AS PER PLAN	22
															2				623	39500	2	EACH	MONUMENT BOX ADJUSTED TO GRADE	
																155			623	40520	155	EACH	RIGHT-OF-WAY MONUMENT	
							131										131		625	31510	131	EACH	PULL BOX REMOVED	
	2000																2000		SPECIAL	69012020	2000	SQ YD	GEOGRID	SS 861
			3019														3019		SPECIAL	69012040	3019	SQ YD	PAVEMENT CRACK AND JOINT REINFORCING FABRIC	
								25									25		SPECIAL	69050100	25	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	23
								3									3		SPECIAL	69050200	3	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	23

CALCULATED JLT
CHECKED GAB

GENERAL SUMMARY - SHEET 1 OF 4

ERI-250-0.00

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SHEET NUMBER													PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	23	24		91	92	93	94						01/SAF/ OT/ERI	02/SAF/ OT/ECSE						
																			EROSION CONTROL	
						84							84		601	32204	84	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER	
	4												4		659	00100	4	EACH	SOIL ANALYSIS TEST	
	4274												4274		659	00300	4274	CU YD	TOPSOIL	
	38504												38504		659	10000	38504	SQ YD	SEEDING AND MULCHING	
	1925												1925		659	14000	1925	SQ YD	REPAIR SEEDING AND MULCHING	
	1925												1925		659	15000	1925	SQ YD	INTER-SEEDING	
	5.37												5.37		659	20000	5.37	TON	COMMERCIAL FERTILIZER	
	8												8		659	31000	8	ACRE	LIME	
	213												213		659	35000	213	M GAL	WATER	
	61												61		660	30000	61	SQ YD	SODDING UNSTAKED	
													LUMP		832	15000	LUMP		STORM WATER POLLUTION PREVENTION PLAN	
													30000		832	30000	30000	EACH	EROSION CONTROL	
																			DRAINAGE	
						6	1						7		602	20000	7	CU YD	CONCRETE MASONRY	
		200											200		605	05200	200	FT	4" UNCLASSIFIED PIPE UNDERDRAINS	
						550									605	05220	550	FT	4" ROCK CUT UNDERDRAINS	
							2721						2721		605	06000	2721	FT	4" BASE PIPE UNDERDRAINS	
				10									10		611	00100	10	FT	4" CONDUIT, TYPE B	
		200				20	180						400		611	00407	400	FT	4" CONDUIT, TYPE F, AS PER PLAN	24
				5	40		15						60		611	00900	60	FT	6" CONDUIT, TYPE B	
	150												150		611	00900	150	FT	6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION	
	150												150		611	01100	150	FT	6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	
	150												150		611	01800	150	FT	8" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION	
	150												150		611	02000	150	FT	8" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	
				102	531	140	367						1140		611	04400	1140	FT	12" CONDUIT, TYPE B	
				102	38								140		611	04400	140	FT	12" CONDUIT, TYPE B, 706.02	
						12	373						385		611	04600	385	FT	12" CONDUIT, TYPE C	
				71	96	70	116						353		611	05900	353	FT	15" CONDUIT, TYPE B	
						57	126						183		611	06100	183	FT	15" CONDUIT, TYPE C	
					60	81	41						182		611	07400	182	FT	18" CONDUIT, TYPE B	
						30							30		611	08900	30	FT	21" CONDUIT, TYPE B	
				6									6		611	09100	6	FT	21" CONDUIT, TYPE C	
						84							84		611	10200	84	FT	24" CONDUIT, TYPE A	
						6	5						11		611	10400	11	FT	24" CONDUIT, TYPE B	
							18						18		611	10600	18	FT	24" CONDUIT, TYPE C	
				60		55							115		611	13400	115	FT	30" CONDUIT, TYPE B	
					50		62						112		611	16400	112	FT	36" CONDUIT, TYPE B	
						38	87						125		611	16600	125	FT	36" CONDUIT, TYPE C	
						51							51		611	53200	51	FT	48" X 76" CONDUIT, TYPE A, 706.04	
		1		7	9	2	9						28		611	98151	28	EACH	CATCH BASIN, NO. 3, AS PER PLAN	23/24
		1		3	12	2	4						22		611	98181	22	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	23/24
				2									2		611	98371	2	EACH	CATCH BASIN, NO. 6, AS PER PLAN	23
						1							1		611	98390	1	EACH	CATCH BASIN, NO. 7	
						2	9						11		611	98471	11	EACH	CATCH BASIN, NO. 2-2B, AS PER PLAN	23
				1									1		611	98511	1	EACH	CATCH BASIN, NO. 2-3, AS PER PLAN	23/149
				1									1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
				2	1								3		611	98650	3	EACH	CATCH BASIN FRAME AND GRATE	
		3			2	1							6		611	98841	6	EACH	INLET, NO. 2-A-6, AS PER PLAN	23/24
		1				1							2		611	98851	2	EACH	INLET, NO. 2-A-8, AS PER PLAN	23/24
		1											1		611	98861	1	EACH	INLET, NO. 2-A-10, AS PER PLAN	23/24
						4							4		611	99154	4	EACH	INLET RECONSTRUCTED TO GRADE	
				4		1							5		611	99161	5	EACH	INLET FRAME AND GRATE, AS PER PLAN 6'	23
				1									1		611	99161	1	EACH	INLET FRAME AND GRATE, AS PER PLAN 8'	23
				1		1							2		611	99161	2	EACH	INLET FRAME AND GRATE, AS PER PLAN 10'	23
				4	6	4	6						20		611	99575	20	EACH	MANHOLE, NO. 3, AS PER PLAN	23
					1								1		611	99650	1	EACH	MANHOLE FRAME AND COVER	
				8	8	1							17		611	99654	17	EACH	MANHOLE ADJUSTED TO GRADE	
						2							2		611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	

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GENERAL SUMMARY - SHEET 2 OF 4

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SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
21	24		79	80		95	96	97		320		01/SAF/ OT/ERI	02/SAF/ OT/ECSE						
																		PAVEMENT	
40			4856	63						476		5435		301	46010	5435	CU YD	ASPHALT CONCRETE BASE, PG64-28	
			5956	1478						965		8399		304	20000	8399	CU YD	AGGREGATE BASE	
			10519									10519		SPECIAL	40720000	10519	GALLON	TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE	21
			5610							232		5842		SPECIAL	40720100	5842	GALLON	TACK COAT, TRACKLESS TACK, SURFACE COURSE	21
										28		28		411	10000	28	CU YD	STABILIZED CRUSHED AGGREGATE	
			745									745		441	50100	745	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	
			869									869		441	50301	869	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN	22
										201		201		441	50400	201	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
										282		282		441	50600	282	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS)	
			5099									5099		442	20000	5099	CU YD	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)	
			6012									6012		442	20200	6012	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (448)	
										879		879		452	10020	879	SQ YD	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA	
										1058		1058		452	12020	1058	SQ YD	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA	
			78									78		452	13020	78	SQ YD	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA	
				15108								15108		609	12000	15108	FT	COMBINATION CURB AND GUTTER, TYPE 2	
				11193								11193		609	26000	11193	FT	CURB, TYPE 6	
				558								558		609	28000	558	FT	CURB, TYPE 7	
																		WATER WORK	
							2						2	638	07800	2	EACH	6" GATE VALVE AND VALVE BOX	
							1						1	638	08710	1	EACH	12" CUTTING-IN SLEEVE	
							2						2	638	08712	2	EACH	16" CUTTING-IN SLEEVE	
							2						2	638	10200	2	EACH	6" FIRE HYDRANT	
							9						9	638	10400	9	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
							5	2				2	5	638	10500	7	EACH	FIRE HYDRANT REMOVED AND RESET	
							1	1				1	1	638	10600	2	EACH	FIRE HYDRANT AND GATE VALVE REMOVED AND RESET	
							12	2				2	12	638	10800	14	EACH	VALVE BOX ADJUSTED TO GRADE	
							23	1				1	23	638	10900	24	EACH	SERVICE BOX ADJUSTED TO GRADE	
								2				2		638	98000	2	EACH	WATER WORK, MISC.: SERVICE BOX RELOCATED WITH NEW SERVICE LINE	
							3	2				2	3	638	98000	5	EACH	WATER WORK, MISC.: MANHOLE RECONSTRUCTED WITH HEAVY FRAME & COVER	
							5						5	638	98000	5	EACH	WATER WORK, MISC.: MANHOLE ADJUSTED TO GRADE	
																		SANITARY SEWER	
	200											200		611	00900	200	FT	6" CONDUIT, TYPE B, FOR SANITARY	
	200											200		611	01100	200	FT	6" CONDUIT, TYPE C, FOR SANITARY	
	200											200		611	01800	200	FT	8" CONDUIT, TYPE B, FOR SANITARY	
	200											200		611	02000	200	FT	8" CONDUIT, TYPE C, FOR SANITARY	
						87						87		611	04400	87	FT	12" CONDUIT, TYPE B	
						1						1		611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN, WITH 2' SUMP	
						3						3		611	98181	3	EACH	CATCH BASIN, NO. 3A, AS PER PLAN, WITH 2' SUMP	
						12						1	11	611	99654	12	EACH	MANHOLE ADJUSTED TO GRADE	
						5						4	1	611	99660	5	EACH	MANHOLE RECONSTRUCTED TO GRADE	

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GENERAL SUMMARY - SHEET 3 OF 4

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SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	26	27	28	29	30	31				495		01/SAF/ OT/ERI	02/SAF/ OT/ECSE						
																		TRAFFIC CONTROL - SEE SHEET 351	
																		TRAFFIC SIGNALS - SEE SHEET 417 & 418	
																		STRUCTURE 20 FOOT SPAN AND UNDER (ERI-CR 10-08.06)	
										LUMP		LUMP		202	11000	LUMP		STRUCTURE REMOVED	
										LUMP		LUMP		503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING	
										LUMP		LUMP		503	21300	LUMP		UNCLASSIFIED EXCAVATION	
										12713		12713		509	10000	12713	POUND	EPOXY COATED REINFORCING STEEL	
										43		43		511	46010	43	CU YD	CLASS QC1 CONCRETE, WINGWALL	
										65		65		511	46510	65	CU YD	CLASS QC1 CONCRETE, FOOTING	
										2		2		511	46610	2	CU YD	CLASS QC1 CONCRETE, HEADWALL	
										106		106		512	10100	106	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
										353		353		512	33000	353	SQ YD	TYPE 2 WATERPROOFING	
										52		52		516	13600	52	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	
										LUMP		LUMP		518	21230	LUMP		POROUS BACKFILL WITH FILTER FABRIC	
										234		234		518	42400	234	FT	6" PERFORATED PIPE, INCLUDING SPECIALS, 707.41	
										6		6		518	42450	6	FT	6" NON-PERFORATED PIPE, INCLUDING SPECIALS, 707.45	
										84		84		611	96200	84	FT	12' X 10' CONDUIT, TYPE A, 706.05	
																		MAINTENANCE OF TRAFFIC	
	1500											1500		410	12000	1500	CU YD	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
	500											500		410	13000	500	CU YD	TRAFFIC COMPACTED SURFACE, TYPE C	
					256							256		614	11110	256	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
				11								11		614	11500	11	MONTH	WORKSITE TRAFFIC SUPERVISOR	
						2						2		614	12350	2	EACH	WORK ZONE IMPACT ATTENUATOR	
	200											200		614	13000	200	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		7										7		614	13300	7	EACH	BARRIER REFLECTOR, TYPE B	
		5										5		614	13350	5	EACH	OBJECT MARKER, ONE WAY	
			28									28		614	18601	28	SIGN MNTH	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	26
					4.90							4.90		614	20000	4.90	MILE	WORK ZONE LANE LINE, CLASS I	
						0.24						0.24		614	20200	0.24	MILE	WORK ZONE LANE LINE, CLASS I, 740.06, TYPE I	
					3.70							3.70		614	21000	3.70	MILE	WORK ZONE CENTER LINE, CLASS I	
						0.22						0.22		614	21200	0.22	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
						0.32						0.32		614	22000	0.32	MILE	WORK ZONE EDGE LINE, CLASS I	
						1.83						1.83		614	22200	1.83	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I	
					13700							13700		614	23000	13700	FT	WORK ZONE CHANNELIZING LINE, CLASS I	
						400						400		614	23400	400	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 740.06, TYPE I	
					1900							1900		614	26000	1900	FT	WORK ZONE STOP LINE, CLASS I	
					380							380		614	30000	380	EACH	WORK ZONE ARROW, CLASS I	
						6						6		614	30400	6	EACH	WORK ZONE ARROW, CLASS I, 740.06, TYPE I	
					60							60		614	40051	60	EACH	BUSINESS ENTRANCE SIGN, AS PER PLAN	30
	50	100										150		616	10000	150	M GAL	WATER	
						225						225		622	41010	225	FT	PORTABLE CONCRETE BARRIER, 50"	
												LUMP		SPECIAL	10810000	LUMP		CPM PROGRESS SCHEDULE	
												LUMP		SPECIAL	11110000	LUMP		DEPARTMENTS SHARE FACILITATED PARTNERING COSTS	
												LUMP		614	11000	LUMP		MAINTAINING TRAFFIC	
												18		619	16020	18	MONTH	FIELD OFFICE, TYPE C	
												LUMP		623	10000	LUMP		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LUMP		624	10000	LUMP		MOBILIZATION	

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GENERAL SUMMARY - SHEET 4 OF 4

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PAVEMENT

PLAN SHEET	STATIONS: STREET	STATIONS: FROM	STATIONS: TO	SIDE STREET INCLUDED	CADD AREAS: A MAINLINE WIDENING	CADD AREAS: B MAINLINE RESURFACING	CADD AREAS: C SIDE ROAD WIDENING	CADD AREAS: D SIDE ROAD RESURFACING	204 SUBGRADE COMPACTION [(A+C)/9]	254 3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE [(B+D)/9]	254 1" PAVEMENT PLANING, ASPHALT CONCRETE	301 VARIABLE THICKNESS ASPHALT CONCRETE BASE	301 ASPHALT CONCRETE BASE, PG64-28, 6" [CX6/12*27]	301 ASPHALT CONCRETE BASE, PG64-28, 8" [AX8/12*27]	304 AGGREGATE BASE, 12" [CX6/12*27]	304 AGGREGATE BASE, 7" [AX7/12*27]	304 VARIABLE THICKNESS AGGREGATE BASE	304 AGGREGATE BASE, 12" [CX1/27]	SPECIAL TACK COAT, TRACKLESS TACK, SURFACE COURSE, [(A+B+C+D)/9X0.047]	SPECIAL TACK COAT, TRACKLESS TACK, INTER. COURSE, [(A+B+C+D)/9X0.075]	441 1 1/2"AC SURF. COURSE, TYPE 1, (448), PG70-22M [(C+D)X1.5/12*27]	441 1 3/4"AC INTER. COURSE, TYPE 2, (448), AS PER PLAN [(C+D)X1.75/12*27]	442 1 1/2" AC SURF. COURSE, 12.5MM, TYPE A (448) [(A+B)X1.5/12*27]	442 VARIABLE THICKNESS ASPHALT CONCRETE INTERMEDIATE COURSE	442 1 3/4" AC INTER. COURSE, 19MM, TYPE A (448) [(A+B)X1.75/12*27]	452 9" NON-REINFORCED CONCRETE PAVEMENT WITH QC/QA [C/9]
					SQ FT	SQ FT	SQ FT	SQ FT	SQ YD	SQ YD	SQ YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	GAL	GAL	CU YD	CU YD	CU YD	CU YD	CU YD	SQ YD
135 & 246	Syc. Line	6+56.23	1+87.13	US-6	6372	21363	702		786.00	2373.67			13.00	157.33	26.00	137.67		-	126	237	3.25	3.79	128.40		149.80	78
137	Milan	66+28.84	70+00	-	219	18192			24.33	2021.33			0.00	5.41	0.00	4.73		-	82	153	0.00	0.00	85.24		99.44	-
138	Milan	70+00	75+00	-	76	31389			8.44	3487.67			0.00	1.88	0.00	1.64		-	140	262	0.00	0.00	145.67		169.95	-
139	Milan	75+00	80+00	-	202	32651			22.44	3627.89			0.00	4.99	0.00	4.36		-	146	274	0.00	0.00	152.10		177.45	-
140	Milan	80+00	85+00	Eastwood	219	33887			24.33	3765.22			0.00	5.41	0.00	4.73		-	152	284	0.00	0.00	157.90		184.21	-
141	Milan	85+00	90+00	-	509	32366			56.56	3596.22			0.00	12.57	0.00	11.00		-	146	274	0.00	0.00	152.20		177.57	-
142	Milan	90+00	95+00	Woodlawn	454	33060			50.44	3673.33			0.00	11.21	0.00	9.81		-	149	279	0.00	0.00	155.16		181.02	-
143	Milan	95+00	100+00	Force	120	29305			13.33	3256.11			0.00	2.96	0.00	2.59		-	131	245	0.00	0.00	136.23		158.93	-
144	Milan	100+00	102+09.19	Dewitt	20	23590			2.22	2621.11			0.00	0.49	0.00	0.43		-	105	197	0.00	0.00	109.31		127.52	-
145	Milan	120+33.36	124+00		1787	23669	234		224.56	2629.89			4.33	44.12	8.67	38.61		-	114	214	1.08	1.26	117.85		137.49	-
146	Milan	124+00	129+00	N. Mall	2391	35845	2470		540.11	3982.78			45.74	59.04	91.48	51.66		-	181	339	11.44	13.34	177.02		206.52	-
147	Milan	129+00	134+00	S. Mall	2518	35199	2979		610.78	3911.00			55.17	62.17	110.33	54.40		-	181	339	13.79	16.09	174.62		203.72	-
148	Milan	134+00	138+00	-	1856	25642			206.22	2849.11			0.00	45.83	0.00	40.10		-	122	229	0.00	0.00	127.31		148.52	-
149, 249, & 250	Milan	138+00	143+00	Hull	1933	32160	17334	3369	2140.78	3947.67			321.00	47.73	642.00	41.76		-	244	457	95.85	111.82	157.84		184.14	-
150	Milan	143+00	148+00	-	3250	32383			361.11	3598.11			0.00	80.25	0.00	70.22		-	158	297	0.00	0.00	164.97		192.46	-
151	Milan	148+00	153+00	-	620	35287			68.89	3920.78			0.00	15.31	0.00	13.40		-	160	299	0.00	0.00	166.24		193.94	-
152	Milan	153+00	158+00	N. Meijer's	213	35561			23.67	3951.22			0.00	5.26	0.00	4.60		-	159	298	0.00	0.00	165.62		193.22	-
153	Milan	158+00	163+00	-	21	35874			2.33	3986.00			0.00	0.52	0.00	0.45		-	160	299	0.00	0.00	166.18		193.88	-
154	Milan	163+00	168+00	S. Meijer's	454	37095			50.44	4121.67			0.00	11.21	0.00	9.81		-	167	313	0.00	0.00	173.84		202.81	-
155	Milan	168+00	173+00	-	467	33264			51.89	3696.00			0.00	11.53	0.00	10.09		-	150	281	0.00	0.00	156.16		182.19	-
156	Milan	173+00	178+00	-	611	35801			67.89	3977.89			0.00	15.09	0.00	13.20		-	162	303	0.00	0.00	168.57		196.67	-
157 & 255	Milan	178+00	183+00	Crossings	924	36415	6119	9768	782.56	5131.44			113.31	22.81	226.63	19.96		-	237	444	73.55	85.81	172.87		201.68	-
254	Crossings	45+00	48+70	-			2427	9876	269.67	1097.33			44.94	0.00	89.89	0.00		-	55	103	56.96	66.45	0.00		0.00	-
158	Milan	183+00	188+00	-	1184	37340			131.56	4148.89			0.00	29.23	0.00	25.58		-	171	321	0.00	0.00	178.35		208.08	-
159 & 259	Milan	188+00	193+00	Fun	236	35360	1026	4504	140.22	4429.33			19.00	5.83	38.00	5.10		-	183	343	25.60	29.87	164.80		192.26	-
160 & 260	Milan	193+00	197+00	Bay Winds	60	26609	6416		719.56	2956.56			118.81	1.48	237.63	1.30		-	147	276	29.70	34.65	123.47		144.05	-
262	S. Park	50+16.23	52+68.16	-			10791	839	1199.00	93.22			199.83	0.00	399.67	0.00		-	52	97	53.84	62.82	0.00		0.00	-
261	S. Park	45+00	48+50	Bay Winds			6959		773.22	0.00			128.87	0.00	257.74	0.00		-	31	58	32.22	37.59	0.00		0.00	-
161	Milan	197+00	201+00	Ramada	3542	22797	934	4085	497.33	2986.89			17.30	87.46	34.59	76.52		-	139	261	23.24	27.11	121.94		142.26	-
162	Milan	201+00	206+00	SR-2 WB	6598	41433			733.11	4603.67			0.00	162.91	0.00	142.55		-	213	400	0.00	0.00	222.37		259.43	-
268	SR-2 WB	1+00	5+50	-	8408	8673			934.22	963.67			0.00	207.60	0.00	181.65		-	76	142	0.00	0.00	79.08		92.26	-
163	Milan	206+00	211+00	-		34548			0.00	3838.67			0.00	0.00	0.00	0.00		-	154	288	0.00	0.00	159.94		186.60	-
164	Milan	211+00	216+00	SR-2 EB	2986	37235			331.78	4137.22			0.00	73.73	0.00	64.51		-	179	335	0.00	0.00	186.21		217.24	-
165	Milan	216+00	220+00	-	411	25985			45.67	2887.22			0.00	10.15	0.00	8.88		-	117	220	0.00	0.00	122.20		142.57	-
165	Milan	220+00	221+00	-	100	6483			11.11	-			0.00	2.47	0.00	2.16		-	29	55	0.00	0.00	30.48		-	-
166	Milan	221+00	226+00	Beatty	515	32915			57.22	-			0.00	12.72	0.00	11.13		-	149	279	0.00	0.00	154.77		-	-
167	Milan	226+00	230+00	-	8	25643			0.89	-			0.00	0.20	0.00	0.17		-	114	214	0.00	0.00	118.75		-	-
168	Milan	230+00	234+00	-	40	26966			4.44	-			0.00	0.99	0.00	0.86		-	120	225	0.00	0.00	125.03		-	-
272 & 273	Bogart	362+00	367+00	-			17489		1943.22	-			323.87	-	-	-		647.74	78	146	80.97	94.46	0.00		-	-
273 & 274	Bogart	367+00	370+53	-			19552		2172.44	-			362.07	-	-	-		724.15	87	163	90.52	105.60	0.00		-	-
274	Bogart	371+18	374+00	-			16877		1875.22	-			312.54	-	-	-		625.07	75	141	78.13	91.16	0.00		-	-
275	Bogart	374+00	377+50	Kingsley			12617		1401.89	-			233.65	-	-	-		467.30	56	105	58.41	68.15	0.00		-	-
276	Bogart	377+50	381+00	-			3607		400.78	-			66.80	-	-	-		133.59	16	30	16.70	19.48	0.00		-	-
SUBTOTALS					49324	1051985	128533	32441	19761.89	110268.78	-	-	2380.24	1217.88	2162.63	1065.64	-	2597.85	5610	10519	745.25	869.46	5098.65	-	5447.90	78.00
FROM SHEET 82:					-	3484	6784	1258	-	-	-	-	-	-	-	-	129	-	-	-	-	-	-	564	-	-
TOTALS TO GENERAL SUMMARY:									19762	120537			4856			5956			5610	10519	745	869	5099		6012	78

CALCULATED LMZ
CHECKED GAB

PAVEMENT SUBSUMMARY

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PAVEMENT EDGES AND CURB

PLAN SHEET	STATIONS STREET	STATIONS FROM	STATIONS TO	SIDE STREET INCLUDED	CADD LENGTHS MAIN E CURB, TYPE 6 FT	DRIVE F CURB, TYPE 6 FT	SIDE G CURB, TYPE 6 FT	BOGART H CURB, TYPE 6 FT	MAIN J CURB, TYPE 7 FT	MAIN K CURB & GUTTER FT	SIDE L CURB & GUTTER FT	SUPER M CURB & GUTTER [LOW SIDE, RIGHT] FT	BOGART N CURB & GUTTER FT	BOGART P SHOULDER EDGE FT	RAMP Q SHOULDER EDGE FT	MAIN R JOINT, FABRIC FT	SIDE S JOINT, SIDEROADS FT	202 BASE REMOVED [SIDEROADS] [0.111S] SQ YD	SPECIAL PAVEMENT CRACK AND JOINT REINFORCING FABRIC [0.333R] SQ YD	204 SUBGRADE COMPACTION [0.389(K+L+M+N) +0.167(E+F+G+H+J+P+Q)] SQ YD	301 ASPHALT CONCRETE BASE, PG64-28 [0.006P+0.008O+0.019S] CU YD	304 AGGREGATE BASE [.030E+.010F+.014G+.042H +.030J+.084K+.067L +.115N+.037P+.021Q] CU YD		609 CURB, TYPE 6 [E+F+G+H] FT	609 CURB, TYPE 7 [J] FT	609 COMBINATION CURB AND GUTTER, TYPE 2 [P+Q+R+S] FT
135 & 246	Syc. Line	6+56.23	1+87.13	US-6	874					129						746		0.00	248.42	196.14	0.00	37.06		874.00	0.00	129.00
136	Syc. Line	16+73.63	19+45.42	Milan	190													0.00	0.00	31.73	0.00	5.70		190.00	0.00	0.00
137	Milan	66+28.84	70+00	-		136				219								0.00	0.00	107.90	0.00	19.76		136.00	0.00	219.00
138	Milan	70+00	75+00	-						76								0.00	0.00	29.56	0.00	6.38		0.00	0.00	76.00
139	Milan	75+00	80+00	-						108								0.00	0.00	42.01	0.00	9.07		0.00	0.00	108.00
140	Milan	80+00	85+00	Eastwood		33				205								0.00	0.00	85.26	0.00	17.55		33.00	0.00	205.00
141	Milan	85+00	90+00	-		553				586								0.00	0.00	320.31	0.00	54.75		553.00	0.00	586.00
142	Milan	90+00	95+00	Woodlawn		530				483								0.00	0.00	276.40	0.00	45.87		530.00	0.00	483.00
143	Milan	95+00	100+00	Force						87								0.00	0.00	33.84	0.00	7.31		0.00	0.00	87.00
144	Milan	100+00	102+09.19	Dewitt						5								0.00	0.00	1.95	0.00	0.42		0.00	0.00	5.00
145	Milan	120+33.36	124+00		346						24					415		0.00	138.20	67.12	0.00	11.99		346.00	0.00	24.00
146	Milan	124+00	129+00	N. Mall	471	62					61					701		0.00	233.43	112.74	0.00	18.84		533.00	0.00	61.00
147	Milan	129+00	134+00	S. Mall	450	317				2						808		0.00	269.06	128.87	0.00	16.84		767.00	0.00	2.00
148	Milan	134+00	138+00	-	400	20				56						400		0.00	133.20	91.92	0.00	16.90		420.00	0.00	56.00
149, 249, & 250	Milan	138+00	143+00	Hull	78		87			339	674					633	132	14.65	210.79	421.61	2.51	77.19		165.00	0.00	1013.00
150	Milan	143+00	148+00	-		154				500						500		0.00	166.50	220.22	0.00	43.54		154.00	0.00	500.00
151	Milan	148+00	153+00	-						147						109		0.00	36.30	57.18	0.00	12.35		0.00	0.00	147.00
152	Milan	153+00	158+00	N. Meijer's						119								0.00	0.00	46.29	0.00	10.00		0.00	0.00	119.00
153	Milan	158+00	163+00	-		115				250						223		0.00	74.26	116.46	0.00	22.15		115.00	0.00	250.00
154	Milan	163+00	168+00	S. Meijer's		146				245						188		0.00	62.60	119.69	0.00	22.04		146.00	0.00	245.00
155	Milan	168+00	173+00	-		233				402						301		0.00	100.23	195.29	0.00	36.10		233.00	0.00	402.00
156	Milan	173+00	178+00	-		210				435						427		0.00	142.19	204.29	0.00	38.64		210.00	0.00	435.00
157 & 255	Milan	178+00	183+00	Crossings		119			97	231	625					298	769	85.36	99.23	369.06	14.61	65.38		119.00	97.00	856.00
254	Crossings	45+00	48+70	-		132					522						522	57.94	0.00	225.10	9.92	36.29		132.00	0.00	522.00
158	Milan	183+00	188+00	-		54			175	562						531		0.00	176.82	256.86	0.00	53.00		54.00	175.00	562.00
159 & 259	Milan	188+00	193+00	Fun		315			52	281	141					113	228	25.31	37.63	225.45	4.33	37.76		315.00	52.00	422.00
160 & 260	Milan	193+00	197+00	Bay Winds		340				128	429					738		0.00	245.75	273.45	0.00	42.90		340.00	0.00	557.00
262	S. Park Pl.	50+16.23	52+68.16	-		58	63				496						58	6.44	0.00	213.15	1.10	34.69		121.00	0.00	496.00
261	S. Park Pl.	45+00	48+50	Bay Winds		414					523							0.00	0.00	272.59	0.00	39.18		414.00	0.00	523.00
161	Milan	197+00	201+00	Ramada	429	580	108			621	130					400	260	28.86	133.20	478.68	4.94	81.06		1117.00	0.00	751.00
162	Milan	201+00	206+00	SR-2 WB	797					366					103	538		0.00	179.15	292.67	0.82	56.82		797.00	0.00	366.00
268	SR-2 WB	1+00	5+50	-	20					180					536		736	81.70	0.00	162.87	18.27	26.98		20.00	0.00	180.00
163	Milan	206+00	211+00	-	1000				234									0.00	0.00	206.08	0.00	37.02		1000.00	234.00	0.00
164	Milan	211+00	216+00	SR-2 EB	451	30				241					101	472		0.00	157.18	190.94	0.81	36.20		481.00	0.00	241.00
165	Milan	216+00	221+00	-		143				510		100						0.00	0.00	261.17	FOR	44.27	< FOR	143.00	0.00	610.00
166	Milan	216+00	221+00	Beatty		233				436		496						0.00	0.00	401.46	SUPER	38.95	< SUPER	233.00	0.00	932.00
167	Milan	226+00	230+00	Bogart		90				8		218				524		0.00	174.49	102.94	SEE SHTS	1.57	< SEE SHTS	90.00	0.00	226.00
168	Milan	230+00	234+00	-	3	172						322						0.00	0.00	154.48	81-82	1.81	< 81-82	175.00	0.00	322.00
272 & 273	Bogart	362+00	367+00	-									44	847				0.00	0.00	158.57	5.08	36.40		0.00	0.00	44.00
273 & 274	Bogart	367+00	370+53	-		78		49					674	24				0.00	0.00	287.40	0.14	81.24		127.00	0.00	674.00
274	Bogart	371+18	374+00	-		34		76					732					0.00	0.00	303.12	0.00	87.71		110.00	0.00	732.00
275	Bogart	374+00	377+50	Kingsley									675					0.00	0.00	262.58	0.00	77.63		0.00	0.00	675.00
276	Bogart	377+50	381+00	-									265					0.00	0.00	103.09	0.00	30.48		0.00	0.00	265.00
SUBTOTALS					5509	5301	258	125	558	7957	3625	1136	2390	871	740	9065	2705	300.26	3018.65	8108.47	62.54	1477.76		11193.00	558.00	15108.00
TOTALS TO GENERAL SUMMARY:																		301	3019	8109	63	1478		11193	558	15108

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PAVEMENT EDGES & CURB SUBSUMMARY

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PAVEMENT, SUPERELEVATED (1/2)

STA.	Existing Elevations			Proposed Elevations			Thickness Less 1.5" Surface			Gutter	Inter. Courses Volume			442		301		304		254	
	High 33' Left	Center Line	Low 33' Right	High 33' Left	Center Line	Low 33' Right	High 33' Left	Center Line	Low 33' Right	Low 33' Right	Left	Right	Total	1.75"	Wedge	Pavement	Low 33' Right	Low 33' Right	Low 33' Right		
	A	B	C	D	E	F	G	H	J	V	K	L	M	N	P	Q	C&G Overlay	C&G Replaced	C&G Overlay		
							[D-A]	[E-B]	[F-C]	Vertical Height, Top of Ex. Gutter to Bottom Proposed Gutter [F-0.75-C]	[(G+H)/2 x 33' wide x 25' long /27]	[(H+J)/2 x 33' wide x 25' long /27]	[K+L]	AC IN. COURSE, 19MM, TYPE A (448) [C (1.75"/12 x 25' long x 66' wide /27]	AC IN. COURSE, 19MM, TYPE A (448) [0" Min., 3.5" Max Wedge] [(0"+3.5")/2 x 19' +/- wide x 25' long /27]	ASPHALT CONCRETE BASE, PG64-28 [3.5" Min., 17" +/- Max.] [M-N-P]	ASPHALT CONCRETE BASE, PG64-28 [((Avg. V-.50) x 2.50') + 1.05 SF) x25' /27]	AGGREGATE BASE [(Avg. V+.75') x 3.83' wide x 25' length /27]	AGGREGATE BASE [(Avg. V+.50) x 1.33' wide x 25' length/27]	3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE [(66' wide X 25' long) /9]	1" PAVEMENT PLANING, ASPHALT CONCRETE [(66' wide X 25' long)/9]
	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	SQ YD	SQ YD
220+00	607.64	608.27	607.45	607.74	608.27	607.45	-0.02	-0.12	-0.12	0.00	-2.08	-3.57	-5.65								
220+25	607.82	608.54	607.68	608.20	608.59	607.81	0.25	-0.07	0.01	0.00	2.73	-0.98	1.74	8.91	0.00	0.00		2.66		183.33	
220+50	608.26	608.87	607.97	608.65	608.91	608.16	0.26	-0.07	0.07	0.00	2.90	-0.01	2.88	8.91	0.00	0.00		2.66		183.33	
220+75	608.63	609.15	608.19	609.10	609.23	608.51	0.35	-0.04	0.20	0.00	4.81	2.48	7.29	8.91	0.00	0.00		2.66		183.33	
221+00	609.17	609.49	608.55	609.55	609.55	608.87	0.26	-0.05	0.20	0.00	3.26	2.29	5.56	8.91	0.00	0.00		2.66		183.33	
221+25	609.64	609.81	608.82	610.01	609.88	609.22	0.24	-0.05	0.28	0.00	2.94	3.45	6.40	8.91	0.00	0.00		2.66		183.33	
221+50	610.23	610.03	609.03	610.46	610.20	609.58	0.11	0.04	0.42	0.00	2.35	7.07	9.43	8.91	0.52	0.00		2.66		183.33	
221+75	610.73	610.26	609.28	610.91	610.52	609.93	0.06	0.14	0.53	0.00	3.01	10.18	13.19	8.91	1.41	2.87		2.66		183.33	
222+00	611.12	610.55	609.51	611.37	610.84	610.28	0.13	0.17	0.65	0.02	4.49	12.55	17.04	8.91	1.41	6.72		2.70		183.33	
222+25	611.68	610.93	609.74	611.77	611.16	610.63	-0.03	0.11	0.77	0.14	1.17	13.38	14.55	8.91	1.41	4.23		2.95		183.33	
222+50	612.09	611.33	609.88	612.18	611.56	611.03	-0.03	0.11	1.03	0.40	1.26	17.51	18.77	8.91	1.41	8.45		3.62		183.33	
222+75	612.48	611.56	610.05	612.60	611.95	611.42	0.00	0.27	1.25	0.62	4.11	23.21	27.32	8.91	1.41	17.00		4.48		183.33	
223+00	612.84	611.79	610.29	613.00	612.35	611.82	0.04	0.44	1.41	0.78	7.36	28.36	35.72	8.91	1.41	25.40	1.44	5.15	1.48		183.33
223+25	613.29	612.08	610.52	613.32	612.79	612.26	-0.09	0.59	1.62	0.99	7.67	33.86	41.53	8.91	1.41	31.20	1.87		1.71		183.33
223+50	613.61	612.32	610.75	613.65	613.08	612.55	-0.08	0.64	1.68	1.05	8.59	35.55	44.14	8.91	1.41	33.81	2.19		1.88		183.33
223+75	613.89	612.63	610.99	613.89	613.36	612.84	-0.12	0.61	1.73	1.10	7.58	35.75	43.33	8.91	1.41	33.01	2.30		1.94		183.33
224+00	614.15	612.93	611.32	614.15	613.62	613.09	-0.12	0.57	1.65	1.02	6.91	34.02	40.93	8.91	1.41	30.61	2.27		1.92		183.33
224+25	614.31	613.16	611.52	614.37	613.84	613.31	-0.06	0.56	1.67	1.04	7.67	34.16	41.83	8.91	1.41	31.51	2.21		1.89		183.33
224+50	614.61	613.43	611.94	614.61	614.09	613.56	-0.12	0.54	1.50	0.87	6.41	31.07	37.47	8.91	1.41	27.15	2.03		1.79		183.33
224+75	614.76	613.67	612.20	614.79	614.26	613.73	-0.09	0.47	1.41	0.78	5.84	28.81	34.65	8.91	1.41	24.33	1.73		1.63		183.33
225+00	614.85	613.79	612.28	615.00	614.47	613.94	0.03	0.56	1.54	0.91	9.04	32.18	41.22	8.91	1.41	30.90	1.78		1.66		183.33
225+25	615.22	614.01	612.45	615.22	614.69	614.16	-0.12	0.56	1.59	0.96	6.75	32.94	39.69	8.91	1.41	29.37	1.99		1.77		183.33
225+50	615.47	614.14	612.62	615.40	614.87	614.34	-0.19	0.61	1.60	0.97	6.45	33.86	40.30	8.91	1.41	29.98	2.06		1.81		183.33
225+75	615.66	614.26	612.84	615.54	615.01	614.48	-0.24	0.63	1.52	0.89	5.99	32.94	38.93	8.91	1.41	28.61	1.98		1.77		183.33
226+00	615.75	614.39	612.93	615.64	615.11	614.58	-0.23	0.60	1.53	0.90	5.68	32.63	38.32	8.91	1.41	27.99	1.90		1.72		183.33
226+25	615.79	614.47	612.98	615.75	615.22	614.69	-0.16	0.63	1.59	0.96	7.21	34.01	41.22	8.91	1.41	30.90	1.98		1.77		183.33
226+50	615.80	614.52	613.10	615.86	615.33	614.80	-0.06	0.69	1.58	0.95	9.66	34.77	44.43	8.91	1.41	34.11	2.03		1.80		183.33
226+75	615.97	614.65	613.12	615.94	615.41	614.88	-0.15	0.64	1.64	1.01	7.52	34.93	42.44	8.91	1.41	32.12	2.09		1.83		183.33
227+00	615.86	614.62	613.21	616.00	615.47	614.94	0.02	0.73	1.61	0.98	11.49	35.84	47.33	8.91	1.41	37.01	2.13		1.85		183.33
227+25	616.04	614.73	613.37	616.06	615.53	615.00	-0.10	0.68	1.51	0.88	8.89	33.55	42.44	8.91	1.41	32.12	1.98		1.77		183.33
227+50	616.02	614.79	613.44	616.11	615.58	615.05	-0.03	0.67	1.49	0.86	9.81	33.09	42.90	8.91	1.41	32.58	1.84		1.69		183.33
227+75	616.14	614.90	613.56	616.18	615.65	615.12	-0.08	0.63	1.44	0.81	8.43	31.72	40.15	8.91	1.41	29.83	1.76		1.65		183.33
SUBTOTALS TO SHEET 82:														276.27	35.78	651.77	39.54	37.52	35.32	2016.67	3666.67

CALCULATED LMZ
CHECKED GAB

PAVEMENT SUPERELEVATION - SHEET 1 OF 2

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PAVEMENT, SUPERELEVATED (2/2)

STA.	Existing Elevations			Proposed Elevations			Thickness Less 1.5" Surface			Gutter	Inter. Courses Volume			442		301		304		254	
	High 33' Left	Center Line	Low 33' Right	High 33' Left	Center Line	Low 33' Right	High 33' Left	Center Line	Low 33' Right	Low 33' Right	Left	Right	Total	1.75"	Wedge	Pavement					
	A	B	C	D	E	F	G	H	J	V	K	L	M	N	P	Q	C&G Overlay	C&G Replaced	C&G Overlay		
							[D-A]	[E-B]	[F-C]	Vertical Height, Top of Ex. Gutter to Bottom Proposed Gutter [F-0.75-C]	[(G+H)/2 x 33' wide x 25' long /27]	[(H+J)/2 x 33' wide x 25' long /27]	[K+L]	AC IN. COURSE, 19MM, TYPE A (448) [C (1.75"/12 x 25' long x 66' wide /27]	AC IN. COURSE, 19MM, TYPE A (448) [0" Min., 3.5" Max Wedge] [(0"+3.5"/2 x 19' +/- wide x 25' long /27]	ASPHALT CONCRETE BASE, PG64-28 [3.5" Min., 17" +/- Max.] [M-N-P]	ASPHALT CONCRETE BASE, PG64-28 [((Avg. V-.50) x 2.50') + 1.05 SF) x25' /27]	AGGREGATE BASE [(Avg. V+.75') x 3.83' wide x 25' length /27]	AGGREGATE BASE [(Avg. V+.50) x 1.33' wide x 25' length/27]	3 1/4" PAVEMENT PLANING, ASPHALT CONCRETE [(66' wide X 25' long)/9]	1" PAVEMENT PLANING, ASPHALT CONCRETE [(66' wide X 25' long)/9]
	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	SQ YD	SQ YD
										0.81											
228+00	616.21	615.02	613.47	616.26	615.73	615.20	-0.07	0.59	1.61	0.98	7.97	33.70	41.68	8.91	1.41	31.36	1.89		1.72		183.33
228+25	616.31	615.14	613.53	616.35	615.82	615.29	-0.08	0.56	1.64	1.01	7.36	33.70	41.07	8.91	1.41	30.74	2.13		1.85		183.33
228+50	616.43	615.23	613.65	616.43	615.90	615.37	-0.12	0.55	1.60	0.97	6.60	32.94	39.54	8.91	1.41	29.22	2.12		1.84		183.33
228+75	616.52	615.29	613.77	616.53	616.01	615.48	-0.11	0.60	1.59	0.96	7.50	33.38	40.88	8.91	1.41	30.56	2.05		1.81		183.33
229+00	616.57	615.36	613.88	616.59	616.06	615.53	-0.10	0.58	1.53	0.90	7.29	32.25	39.54	8.91	1.41	29.22	1.97		1.76		183.33
229+25	616.70	615.39	613.82	616.68	616.15	615.62	-0.14	0.64	1.68	1.05	7.67	35.54	43.21	8.91	1.41	32.88	2.08		1.82		183.33
229+50	616.68	615.44	613.94	616.74	616.21	615.68	-0.06	0.65	1.62	0.99	9.04	34.77	43.82	8.91	1.41	33.49	2.19		1.88		183.33
229+75	616.69	615.58	614.10	616.80	616.27	615.74	-0.01	0.57	1.52	0.89	8.59	32.02	40.61	8.91	1.41	30.29	2.00		1.78		183.33
230+00	616.79	615.63	614.06	616.88	616.35	615.82	-0.03	0.60	1.64	1.01	8.74	34.31	43.05	8.91	1.41	32.73	2.02		1.79		183.33
230+25	616.95	615.66	614.12	616.95	616.42	615.89	-0.12	0.64	1.65	1.02	7.95	35.05	43.00	8.91	1.41	32.68	2.17		1.87		183.33
230+50	617.01	615.76	614.18	617.01	616.48	615.95	-0.12	0.60	1.65	1.02	7.34	34.45	41.79	8.91	1.41	31.47	2.18		1.88		183.33
230+75	617.08	615.80	614.19	617.08	616.55	616.02	-0.12	0.63	1.71	1.08	7.80	35.82	43.61	8.91	1.41	33.29	2.25		1.91		183.33
231+00	617.16	615.88	614.30	617.16	616.63	616.10	-0.12	0.63	1.68	1.05	7.84	35.40	43.24	8.91	1.41	32.92	2.29		1.93		183.33
231+25	617.12	615.94	614.34	617.17	616.64	616.11	-0.07	0.58	1.65	1.02	7.82	34.16	41.98	8.91	1.41	31.66	2.22		1.90		183.33
231+50	617.21	615.94	614.44	617.19	616.66	616.13	-0.14	0.60	1.57	0.94	7.06	33.24	40.30	8.91	1.41	29.98	2.09		1.83		183.33
231+75	617.10	615.98	614.57	617.15	616.62	616.09	-0.07	0.52	1.40	0.77	6.91	29.42	36.33	8.91	1.41	26.01	1.80		1.67		183.33
232+00	617.09	616.12	614.65	617.09	616.56	616.03	-0.12	0.32	1.26	0.63	2.99	24.14	27.13	8.91	1.41	16.81	1.44		1.48		183.33
232+25	616.99	616.15	614.72	616.99	616.46	615.93	-0.12	0.19	1.09	0.46	0.95	19.49	20.44	8.91	1.41	10.12		4.59		183.33	
232+50	616.86	616.14	614.80	616.90	616.37	615.84	-0.08	0.11	0.92	0.29	0.49	15.83	16.32	8.91	1.41	5.99		3.99		183.33	
232+75	616.75	616.15	614.91	616.81	616.28	615.75	-0.06	0.01	0.72	0.09	-0.73	11.24	10.51	8.91	1.41	0.19		3.35		183.33	
233+00	616.57	616.22	615.03	616.74	616.21	615.68	0.05	-0.12	0.54	0.00	-1.09	6.31	5.23	8.91	0.00	0.00		2.83		183.33	
233+25	616.39	616.23	615.15	616.67	616.22	615.61	0.16	-0.13	0.34	0.00	0.47	3.15	3.61	8.91	0.00	0.00		2.66		183.33	
233+50	616.33	616.23	615.26	616.60	616.25	615.54	0.15	-0.10	0.16	0.00	0.71	0.88	1.59	8.91	0.00	0.00		2.66		183.33	
233+75	616.46	616.27	615.37	616.53	616.28	615.47	-0.05	-0.11	-0.02	0.00	-2.45	-2.00	-4.45	8.91	0.00	0.00		2.66		183.33	
234+00	616.46	616.34	615.58	616.46	616.34	615.41	-0.12	-0.12	-0.29	0.00	-3.72	-6.37	-10.08	8.91	0.00	0.00		2.66		183.33	
SUBTOTALS:														222.80	28.21	531.60	34.90	25.40	30.71	1466.67	3116.67
TOTALS FROM SHEET 81:														276.27	35.78	651.77	39.54	37.52	35.32	2016.67	3666.67
TOTALS TO SHEET 79:														564		1258		129		3484	6784

CALCULATED LMZ
CHECKED GAB

PAVEMENT SUPERELEVATION - SHEET 2 OF 2

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EXCAVATION FOR PAVEMENT

SHEET REFERENCE	STATIONS STREET	FROM	TO	SIDE STREET INCLUDED	OFFICE CALCULATIONS CADD AREAS A MAINLINE WIDENING	B SIDE ROAD WIDENING			203 EXCAVATION (MAINLINE) [A x 18.25/12 /27]	EXCAVATION (CONCRETE) [A x 9/12 /27]	EXCAVATION (SIDE ROAD) [B x 21.25/12 /27]	EXCAVATION (EXCLUDING PAVEMENT)	EMBANKMENT (EXCLUDING PAVEMENT)
					SQ FT	SQ FT			CU YD	CU YD	CU YD	CU YD	CU YD
135 & 246	Syc. Line	6+56.23	1+87.13	US-6	6372				359	-	0		
"	"	"	"	"	702					20	0		
136	Syc. Line	16+73.63	19+45.42	Milan	0				0		0		
137	Milan	66+28.84	70+00	-	219				12	-	0		
138	Milan	70+00	75+00	-	76				4	-	0		
139	Milan	75+00	80+00	-	202				11	-	0		
140	Milan	80+00	85+00	Eastwood	219				12	-	0		
141	Milan	85+00	90+00	-	509				29	-	0		
142	Milan	90+00	95+00	Woodlawn	454				26	-	0		
143	Milan	95+00	100+00	Force	120				7	-	0		
144	Milan	100+00	102+09.19	Dewitt	20				1	-	0		
145	Milan	120+33.36	124+00		1787	234			101	-	15		
146	Milan	124+00	129+00	N. Mall	2391	2470			135	-	162		
147	Milan	129+00	134+00	S. Mall	2518	2979			142	-	195		
148	Milan	134+00	138+00	-	1856				105	-	0		
149, 249, & 250	Milan	138+00	143+00	Hull	1933	17334			109	-	1137		
150	Milan	143+00	148+00	-	3250				183	-	0		
151	Milan	148+00	153+00	-	620				35	-	0		
152	Milan	153+00	158+00	N. Meijer's	213				12	-	0		
153	Milan	158+00	163+00	-	21				1	-	0		
154	Milan	163+00	168+00	S. Meijer's	454				26	-	0		
155	Milan	168+00	173+00	-	467				26	-	0		
156	Milan	173+00	178+00	-	611				34	-	0		
157 & 255	Milan	178+00	183+00	Crossings	924	6119			52	-	401		
254	Crossings	45+00	48+70	-		2427			0	-	159		
158	Milan	183+00	188+00	-	1184				67	-	0		
159 & 259	Milan	188+00	193+00	Fun	236	1026			13	-	67		
160 & 260	Milan	193+00	197+00	Bay Winds	60	6416			3	-	421		
261	S. Park Pl.	45+00	48+50	Bay Winds		6959			0	-	456		
262	S. Park Pl.	50+16.23	52+68.16	-		10791			0	-	708		
161	Milan	197+00	201+00	Ramada	3542	934			200	-	61		
162	Milan	201+00	206+00	SR-2 WB	6598				372	-	0		
268	SR-2 WB	1+00	5+50	-	8408				474	-	0		
163	Milan	206+00	211+00	-	0				0	-	0		
164	Milan	211+00	216+00	SR-2 EB	2986				168	-	0		
165	Milan	216+00	221+00	-	511				29	-	0		
166	Milan	221+00	226+00	Beatty	515				29	-	0		
167	Milan	226+00	230+00	-	8				0	-	0		
168	Milan	230+00	234+00	-	40				2	-	0		
272 & 273	Bogart	362+00	367+00	-		17489							
273 & 274	Bogart	367+00	370+53	-		19552							
274	Bogart	371+18	374+00	-		16877							
275	Bogart	374+00	377+50	Kingsley		12617							
276	Bogart	377+50	381+00	-		3607							
SUBTOTALS:					50026	127831			2778	20	3784	-	-
TOTALS FROM SHEET 85:									-	-	-	6938	4616
TOTALS TO GENERAL SUMMARY:									**13519**				**4616**

BOGART RD.
CROSS SECTION CALCS.
LOCATED IN SHT 85

203 GRANULAR EMBANKMENT STA 206+71 TO 209+05					203
	END AREA		VOLUME		
STATION	CUT	FILL	CUT	FILL	GRANULAR EMBANKMENT [D]
				D	
	SQ FT	SQ FT	CU YD	CU YD	CU YD
206+71	0.0	4.5			
			0.0	18.1	18.1
207+50	0.0	7.9			
			0.0	15.3	15.3
208+00	0.0	8.6			
			0.0	9.7	9.7
208+50	0.0	1.9			
			0.0	3.0	3.0
209+05	0.0	1.0			
TOTAL TO GENERAL SUMMARY:					**46**

CALCULATED LMZ
CHECKED GAB

EXCAVATION FOR PAVEMENT SUBSUMMARY

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EARTHWORK

MAINLINE TO STA. 75+00					MAINLINE STA 75+00 TO STA 89+00					MAINLINE STA 89+00 TO STA 123+00					MAINLINE STA 123+00 TO STA 138+00					MAINLINE STA 138+00 TO STA 153+50					MAINLINE STA 153+50 TO STA 168+00					MAINLINE STA 168+00 TO STA 182+00					203	203
	END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			
STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	EXCAVATION	EMBANKMENT
	SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD	CU YD	CU YD
Sycamore Line North																																				
6+56	1.2	0.0			75+00	1.2	0.0			89+00	0.0	0.0			123+00	1.2	0.0			138+00	1.4	0.1			153+50	0.0	0.3			168+00	6.4	0.0				
			2.0	0.0				1.9	0.0				0.0	0.0				2.4	0.0				1.7	0.6				0.1	1.5				9.6	0.0		
7+00	1.2	0.0			75+50	0.8	0.0			89+50	0.0	0.0			123+50	1.4	0.0			138+50	0.4	0.5			154+00	0.1	1.3			168+50	4.0	0.0				
			2.8	0.0				0.7	0.0				0.0	0.0				1.3	0.0	Hull Road								0.1	1.5				5.6	0.0		
7+50	1.8	0.0			76+00	0.0	0.0			90+00	0.0	0.0			124+00	0.0	0.0			140+50	7.6	0.0			154+50	0.0	0.3			169+00	2.0	0.0				
			8.8	0.0				1.9	0.0				0.0	0.0				0.0	0.0				7.8	0.2				0.0	0.4				6.2	0.0		
8+00	7.7	0.0			76+50	2.1	0.0			90+50	0.0	0.0			124+50	0.0	0.0			141+00	0.8	0.2			155+00	0.0	0.1			169+50	4.7	0.0				
			9.4	0.0				3.7	0.0				0.0	0.0				3.8	0.0				15.5	0.2				0.0	0.1				8.4	0.0		
8+50	2.5	0.0			77+00	1.9	0.0			91+00	0.0	0.0			125+00	4.1	0.0			141+50	15.9	0.0			155+50	0.0	0.0			170+00	4.4	0.0				
			3.5	0.0				42.4	0.0				5.7	0.0				7.6	0.0				30.4	0.0				0.0	0.0				8.6	0.0		
9+00	1.3	0.0			77+80	26.7	0.0			91+50	6.2	0.0			125+50	4.1	0.0			142+00	16.9	0.0			156+00	0.0	0.0			170+50	4.9	0.0				
			1.9	0.0				13.1	0.0				10.5	0.4				7.9	0.0				29.5	0.0				0.0	0.0				4.5	0.0		
9+40	1.3	0.0			78+00	8.8	0.0			92+00	5.1	0.4			126+00	4.4	0.0			142+50	15.0	0.0			156+50	0.0	0.0			171+00	0.0	0.0				
US-250								27.9	0.0				4.7	0.4				6.9	0.0				27.0	0.0				0.2	0.0				1.5	0.4		
0+00	0.0	0.0			78+46	24.0	0.0			92+50	0.0	0.0			126+50	3.0	0.0			143+00	14.2	0.0			157+00	0.2	0.0			171+50	1.6	0.4				
			0.0	0.9				34.6	0.0				2.9	0.0				6.2	0.0				20.6	0.7				0.2	0.8				1.5	0.4		
0+50	0.0	1.0			79+05	7.7	0.0			93+00	3.1	0.0			127+00	3.7	0.0			143+50	8.0	0.8			157+50	0.0	0.9			172+00	0.0	0.0				
			0.0	1.1				18.6	0.0				5.1	0.0				5.9	0.8				14.2	0.7				0.0	1.6				7.7	0.0		
1+00	0.0	0.2			79+65	9.0	0.0			93+50	2.4	0.0			127+50	2.7	0.9			144+00	7.3	0.0			158+00	0.0	0.8			172+50	8.3	0.0				
			0.0	15.2				7.4	0.0				2.2	0.0				4.3	0.9				12.2	0.7				0.0	1.9				7.7	3.5		
1+50	0.0	16.2			80+00	2.4	0.0			94+00	0.0	0.0			128+00	1.9	0.1			144+50	5.9	0.8			158+50	0.0	1.2			173+00	0.0	3.8				
			0.0	11.1				3.6	0.0				0.0	0.0				2.6	0.3				5.8	2.5				0.0	2.7				0.0	3.8		
1+87	0.0	0.0			80+22	6.4	0.0			94+50	0.0	0.0			128+50	0.9	0.2			145+00	0.4	1.9			159+00	0.0	1.7			173+50	0.0	0.3				
Resume at Pipe Creek								13.9	0.0				0.0	0.0				0.8	0.5				2.6	1.9				0.0	0.0				2.7	0.3		
66+29	0.0	3.8			80+83	5.9	0.0			95+00	0.0	0.0			129+00	0.0	0.3			145+50	2.4	0.1			159+00	0.0	0.0			174+00	2.9	0.0				
			0.0	17.0				2.2	0.0				0.0	0.0				0.0	7.4				6.0	0.6				0.0	2.4				15.6	0.0		
67+50	0.0	3.8			81+00	1.1	0.0			95+50	0.0	0.0			129+24	0.0	16.3			146+00	4.1	0.6			160+00	0.0	1.3			174+50	14.0	0.0				
			0.0	3.8				2.6	0.0				0.0	0.0				2.3	30.7				6.0	2.2				2.7	2.2				23.1	0.0		
68+00	0.0	0.3			81+43	2.2	0.0			96+00	0.0	0.0			130+00	1.6	5.5			146+50	2.4	1.8			160+50	2.9	1.1			175+00	10.9	0.0				
			0.0	0.6				7.9	0.0				0.0	0.0				4.2	5.1				4.0	2.0				2.7	1.7				10.1	0.1		
68+50	0.0	0.3			82+50	1.8	0.0			96+50	0.0	0.0			130+50	2.9	0.0			147+00	1.9	0.4			161+00	0.0	0.7			175+50	0.0	0.1				
			5.6	0.3				3.8	0.0				1.5	0.0				6.5	0.0				3.2	0.9				0.0	0.9				0.0	0.6		
69+00	6.1	0.0			83+00	2.3	0.0			97+00	1.6	0.0			131+00	4.1	0.0			147+50	1.6	0.6			161+50	0.0	0.3			176+00	0.0	0.5				
			5.6	0.0				2.1	0.0				3.9	0.0				6.0	0.1				3.1	1.1				0.0	0.9				0.0	0.8		
69+50	0.0	0.0			83+50	0.0	0.0			97+50	2.6	0.0			131+50	2.4	0.1			148+00	1.7	0.6			162+00	0.0	0.7			176+50	0.0	0.4				
			0.0	0.0				0.9	0.0				4.0	0.0				3.7	0.2				3.2	1.2				0.0	0.7				0.0	0.9		
70+00	0.0	0.0			84+00	1.0	0.0			98+00	1.7	0.0			132+00	1.6	0.1			148+50	1.8	0.7			162+50	0.0	0.1			177+00	0.0	0.6				
			0.7	0.0				0.9	0.0				4.1	0.0				1.5	0.1				1.7	0.6				0.0	0.3				0.0	2.5		
70+50	0.8	0.0			84+50	0.0	0.0			98+50	2.7	0.0			132+50	0.0	0.0			149+00	0.0	0.0			163+00	0.0	0.2			177+62	0.0	1.6				
			0.7	0.0				2.9	0.0				6.9	0.0				8.9	0.0				3.4	0.3				7.4	11.1				0.0	3.4		
71+00	0.0	0.0			85+00	3.1	0.0			99+00	4.7	0.0			133+50	4.8	0.0			149+50	3.7	0.3			163+50	8.0	11.8			178+00	0.0	3.2				
			0.0	0.2				5.2	0.0				7.8	0.0				4.7	1.4				3.4	1.6				7.6	12.0				0.5	6.7		
71+50	0.0	0.2			85+34	5.2	0.0			99+50	3.7	0.0			134+00	0.3	1.5			150+00	0.0	1.4			164+00	0.2	1.2			178+50	0.5	4.0				
			0.0	0.3				7.6	0.7				4.0	0.0				0.6	1.9				0.0	2.2				0.2	1.9				0.8	7.0		
72+00	0.0	0.1			86+00	1.0	0.6			100+00	0.6	0.0			134+50	0.4	0.5			150+50	0.0	1.0			164+50	0.0	0.8			179+00	0.4	3.6				
			0.0	0.3				3.0	0.6	Suspend Dewitt to Mall								1.3	1.3				0.0	2.1				0.6	1.9				0.7	5.8		
72+50	0.0	0.2			86+50	2.2	0.0			120+33	3.0	0.0			135+00	1.0	0.9			151+00	0.0	1.3			165+00	0.6	1.3			179+50	0.4	2.7				
			0.0	0.5				2.3	0.0				4.1	0.6				1.4	1.7				0.0	1.5				3.8	1.2				11.4	4.2		
73+00	0.0	0.3			87+00	0.3	0.0			121+00	0.3	0.5			135+50	0.5	0.9			151+50	0.0	0.3			165+50	3.5	0.0			180+00	11.9	1.8				
			0.0	0.3				4.8	3.0				0.3	0.8				0.7	1.5				0.0	1.4				6.5	0.0				23.0	1.9		
73+50	0.0	0.0			87+62	3.9	2.6			121+50	0.0	0.4			136+00	0.3	0.7			152+00	0.0	1.2			166+50	0.0	0.0			180+50	12.9	0.2				
			0.0	0.6				4.2	2.3				0.0	0.8				2.1	0.8				0.0	1.9				3.8	0.2				69.4	0.2		
74+00	0.0	0.6			88+00	2.1	0.7			122+00	0.0	0.5			136+50	2.0	0.2			152+50	0.0	0.8			167+00	4.1	0.2			181+00	62.0	0.0				
			0.0	0.8				1.9	6.9				0.1	0.5				2.6	0.2				0.0	0.9				3.8	0.4				57.4	0.0		
74+50	0.0	0.3			88+50	0.0	6.8			122+50	0.1	0.0			137+00	0.8	0.0			153+00	0.0	0.2			167+50	0.0	0.2			181+50	0.0	0.0				
			1.1	0.3				0.0	6.3				1.2	0.0				4.1	0.2				0.0	0.5				5.9	0.2				22.4	0.0		
75+00	1.2	0.0			89+00	0.0	0.0			123+00	1.2	0.0			138+00	1.4	0.1			153+50	0.0	0.3			168+00	6.4	0.0			182+00	24.2	0.0				
CUT SUBTOTAL:			42	-	CUT SUBTOTAL:			222	-	CUT SUBTOTAL:			69	-	CUT SUBTOTAL:			100	-	CUT SUBTOTAL:			201	-	CUT SUBTOTAL:			45	-	CUT SUBTOTAL:			298	-	979	
FILL SUBTOTAL:			-	53	FILL SUBTOTAL:			-	20	FILL SUBTOTAL:			-	3	FILL SUBTOTAL:			-	55	FILL SUBTOTAL:			-	29	FILL SUBTOTAL:			-	48	FILL SUBTOTAL:			-	42		251
TOTALS TO SHEET 85:																																		979	251

CALCULATED LMZ
CHECKED GAB

EARTHWORK SUBSUMMARY

ERI-250-0.00

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EARTHWORK

MAINLINE TO STA. 182+00 to 196+00					MAINLINE STA 196+00 TO 210+00					MAINLINE STA 210+00 TO STA 224+00					MAINLINE STA 224+00 AND US-6					HULL - CROSSINGS - FUN - BAY WINDS					S. PARK PL. / SR-2 RAMPS					BOGART ROAD					203	203
	END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			END AREA		VOLUME			
STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	STATION	CUT	FILL	CUT	FILL	EXCAVATION	EMBANKMENT
	SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD		SQ FT	SQ FT	CU YD	CU YD	CU YD	CU YD
																				Hull Road					S. PARK PL.										
182+00	24.2	0.0			196+00	12.7	0.0			210+00	0.0	0.5			224+00	1.2	16.4			12+32	28.3	8.1			50+16	63.4	0.0			362+65	62.0	0.0				
			24.3	3.3				14.0	0.0				0.0	0.6				0.7	19.9				18.9	5.4				79.8	0.0				195.2	0.0		
182+50	2.0	3.6			196+50	2.4	0.0			210+50	0.0	0.1			224+31	0.0	18.2			12+50	28.3	8.1			50+50	63.4	0.0			363+50	62.0	0.0				
			4.1	7.1				2.2	5.0				0.0	0.2				0.0	40.8				44.4	7.5				101.4	0.0				118.7	0.0		
183+00	2.4	4.1			197+00	0.0	5.4			211+00	0.0	0.1			225+00	0.0	13.7			13+00	19.6	0.0			51+00	46.1	0.0			364+00	66.2	0.0				
			6.1	7.6				6.9	6.8				0.0	4.7				6.4	31.0				40.6	9.6				66.3	0.0				125.8	0.0		
183+50	4.2	4.1			197+50	7.4	1.9			211+50	0.0	5.0			225+50	6.9	19.8			13+50	24.2	10.4			51+50	25.5	0.0			364+50	69.7	0.0				
			8.8	4.0				16.4	3.5				0.0	4.6				14.9	33.1				34.1	13.5				31.8	8.4				125.3	0.8		
184+00	5.3	0.2			198+00	10.3	1.9			212+00	0.0	0.0			226+00	9.2	15.9			14+00	12.6	4.2			52+00	8.8	9.1			365+00	65.6	0.9				
			11.2	0.2				17.5	1.8				0.0	0.9				9.0	46.4				20.6	3.9				12.8	11.3				128.6	0.9		
184+50	6.8	0.0			198+50	8.6	0.0			212+50	0.0	1.0			226+50	0.5	34.2			14+50	9.6	0.0			52+67	1.5	0.0			365+50	73.3	0.1				
			19.0	0.0				12.3	0.3				0.0	0.9	Bogart Road Crosses								9.9	2.8	Ramp A								137.8	0.3		
185+00	13.7	0.0			199+00	4.7	0.3			213+00	0.0	0.0			228+50	27.0	9.7			15+00	1.1	3.0			12+57	0.0	0.0			366+00	75.5	0.2				
			20.4	0.0				11.6	0.3				0.6	28.2				30.7	31.9				1.0	2.7				27.2	0.9				153.9	0.6		
185+50	8.3	0.0			199+50	7.8	0.0			213+50	0.7	30.5			229+00	6.2	24.8			15+49	0.0	0.0			13+00	34.2	1.1			366+50	90.7	0.4				
			14.9	0.0				11.2	0.8				4.8	28.2				6.9	31.7	Crossings Road								94.9	27.3				174.4	3.7		
186+00	7.8	0.0			200+00	4.3	0.9			214+00	4.5	0.0			229+50	1.2	9.4			45+64	0.6	0.0			13+50	68.3	28.4			367+00	97.7	3.6				
			13.7	0.2				7.0	1.3				4.2	0.0				1.4	22.4				0.8	0.0				63.2	135.6				185.1	4.0		
186+50	7.0	0.2			200+50	3.3	0.5			214+50	0.0	0.0			230+00	0.3	14.8			46+00	0.6	0.0			14+00	0.0	118.1			367+50	102.2	0.7				
			12.5	0.2				5.5	1.2				2.4	0.0				1.5	27.1				2.0	0.0				0.0	167.9				188.5	2.8		
187+00	6.5	0.0			201+00	2.6	0.8			215+00	2.6	0.0			230+50	1.3	14.5			46+50	1.6	0.0			14+24	0.0	259.6			368+00	101.4	2.3				
			14.6	0.0				5.7	1.0				6.1	1.4				2.3	23.4				3.9	0.1	Ramp B								187.8	2.1		
187+50	9.3	0.0			201+50	3.6	0.3			215+50	4.0	1.5			231+00	1.2	10.8			47+00	2.6	0.1			0+47	34.7	19.9			368+50	101.4	0.0				
			18.6	0.2				14.8	0.3				9.2	2.7				1.1	19.5				20.9	0.1				145.1	94.7				160.8	1.6		
188+00	10.8	0.2			202+00	12.4	0.0			216+00	5.9	1.4			231+50	0.0	10.3			47+50	20.0	0.0			1+00	113.1	76.6			369+00	72.3	1.7				
			10.0	0.3				11.5	0.0				29.1	1.1				0.0	38.4				21.4	0.0				166.5	116.1				346.5	30.2		
188+50	0.0	0.1			202+50	0.0	0.0			216+41	32.4	0.0			232+00	0.0	31.2			48+00	3.1	0.0			1+50	66.7	48.8			370+54	49.2	8.9				
			0.0	0.1				0.0	51.9				38.5	11.3				0.0	53.5				5.3	0.0				128.0	77.2	US-250 Intersection						
189+00	0.0	0.0			203+00	0.0	56.0			217+00	2.8	10.3			232+50	0.0	26.6			48+50	2.6	0.0			2+00	71.5	34.6			371+19	111.1	2.2				
			1.3	1.1				0.0	130.5				11.9	18.6				0.0	33.1				15.1	0.0				91.8	73.1				418.0	23.8		
189+50	1.4	1.2			203+50	0.0	84.9			217+50	10.1	9.8			233+00	0.0	9.1			49+00	13.7	0.0			2+50	27.6	44.3			372+50	61.2	7.6				
			1.3	12.5				0.0	79.0				9.6	7.3				0.0	8.4				35.5	0.0				84.7	80.5				85.7	35.5		
190+00	0.0	12.3			204+00	0.0	0.4			217+90	2.9	0.0			233+50	0.0	0.0			49+70	13.7	0.0			3+00	63.9	42.6			373+00	31.4	30.7				
			0.0	13.4				0.0	0.8				4.1	0.9				0.0	0.0	Fun Drive								95.3	79.3				33.8	114.7		
190+50	0.0	2.2			204+50	0.0	0.5			218+50	0.8	0.8			234+00	0.0	0.0			48+50	0.0	0.0			3+50	39.0	43.0			373+50	5.1	93.2				
			0.0	15.5				0.0	1.5				1.8	1.4									6.6	0.0				71.1	84.9				7.9	245.6		
191+00	0.0	14.5			205+00	0.0	1.1			219+00	1.1	0.7								49+00	7.1	0.0			4+00	37.8	48.7			374+00	3.4	172.1				
			0.0	14.8				0.0	1.6				1.3	0.6	US-6								6.6	0.0				64.2	87.9	374+50 - Culvert				12.2	778.3
191+50	0.0	1.5			205+50	0.0	0.6			219+50	0.3	0.0			472+45	0.0	0.9			49+50	0.0	0.0			4+50	31.5	46.2			375+00	3.2	248.2				
			0.0	18.2				0.0	2.2				0.7	0.2				0.0	1.4									78.8	85.9				8.4	336.0		
192+00	0.0	18.2			206+00	0.0	1.8			220+00	0.5	0.2			473+00	0.0	0.5								5+00	53.6	46.6			375+50	5.9	114.7				
			2.1	17.8				0.0	2.8				12.9	1.5				0.0	0.5	Bay Winds Drive								72.8	67.3				8.2	158.6		
192+50	2.3	1.0			206+50	0.0	1.2			220+50	13.4	1.4			473+50	0.0	0.0			45+89	3.9	7.1			5+50	25.0	26.1			376+00	3.0	56.6				
			1.9	1.1				0.2	2.2				13.5	1.9				3.1	0.0				7.9	22.4				23.1	24.2				13.4	75.4		
192+94	0.0	0.3			206+71	0.4	4.5			221+00	1.2	0.7			474+00	3.3	0.0			46+50	3.1	12.7			6+00	0.0	0.0			376+50	11.5	24.8				
			0.0	0.4				0.6	SEE SHT 83				3.5	5.4				3.1	0.7				3.1	13.4	Ramp C								29.8	39.5		
193+50	0.0	0.1			207+50	0.0	0.0			221+50	2.6	5.1			474+50	0.0	0.8			47+00	0.2	1.8			+53	0.0	67.2			377+00	20.7	17.9				
			0.0	0.7				0.0					3.4	6.2				0.0	0.7				20.2	2.8				0.1	31.4				55.9	18.6		
193+84	0.0	1.0			208+00	0.0	0.0			222+00	1.1	1.6			475+00	0.0	0.0			47+50	21.6	1.2			+75	0.3	9.9			377+50	39.7	2.2				
			9.3	1.2				0.0					2.5	7.5				3.5	0.0				74.6	1.1				14.9	11.0				84.4	4.1		
194+50	7.6	0.0			208+50	0.0	0.0			222+50	1.6	6.5			475+50	3.8	0.0			48+00	59.0	0.0			1+00	31.9	13.8			378+00	51.5	2.2				
			7.9	0.0				0.0					1.5	21.5				4.8	0.0				101.5	0.0				25.6	10.0				97.7	4.2		
195+00	0.9	0.0			209+05	0.0	1.0			223+00	0.0	16.7			476+18	0.0	0.0			48+50	50.6	0.0			1+25	23.4	7.9			378+50	54.0	2.3				
			0.8	0.0				0.0	1.6				0.0	37.1									74.3	0.0				10.8	4.9				86.0	3.7		
195+50	0.0	0.0			209+50	0.0	0.9			223+50	0.0	23.4								49+00	29.6	0.0			1+50	0.0	2.6			378+93	54.0	2.3				
			11.8	0.0				0.0	1.3				1.1	36.9									66.3	0.0				0.0	1.7							
196+00	12.7	0.0			210+00	0.0	0.5			224+00	1.2	16.4								49+54	36.7	0.0			1+85	0.0	0.0									
CUT SUBTOTAL:			214	-	CUT SUBTOTAL:			137	-	CUT SUBTOTAL:			163	-	CUT SUBTOTAL:			89	-	CUT SUBTOTAL:			635	-	CUT SUBTOTAL:			1550	-	CUT SUBTOTAL:			3170	-	5959	-
FILL SUBTOTAL:			-	120	FILL SUBTOTAL:			-	298	FILL SUBTOTAL:			-	232	FILL SUBTOTAL:			-	464	FILL SUBTOTAL:			-	85	FILL SUBTOTAL:			-	1281	FILL SUBTOTAL:			-	1885	-	4365
TOTALS FROM SHEET 84:																																			979	251
TOTALS TO SHEET 83:																																			6938	4616

CALCULATED LMZ
CHECKED GAB

EARTHWORK SUBSUMMARY

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SEEDING AND MULCHING

	PLAN SHEETS	STATIONS STREET	STATIONS FROM	STATIONS TO	SIDE STREET INCLUDED	SEEDING CADD AREA	SODING CADD AREA	659 SEEDING AND MULCHING [A/9]	659 TOPSOIL [B X 111 / 1000]	659 SOIL ANALYSIS TEST [SUM OF B / 10000]	660 SODING UNSTAKED [E/9]	659 REPAIR SEEDING AND MULCHING [B X 0.05]	659 INTER-SEEDING [B X 0.05]	659 COMMERCIAL FERTILIZER [((A x 30/1000) + (D x 20/1000))/2000]	659 LIME [SUM OF A /43560]	659 WATER [(2B+D) x 9 x 3/100000]	
						A	E	B	C				D				
						SQ FT	SQ FT	SQ YD	CU YD	EACH	SQ YD	SQ YD	SQ YD	TON	ACRE	MGAL	
	135 & 246	Syc. Line	6+56.23	1+87.13	US-6	5690		632.22	70.18			31.61	31.61	0.09		3.50	
	136	Syc. Line	16+73.63	19+45.42	Milan	1386		154.00	17.09			7.70	7.70	0.02		0.85	
	137	Milan	66+28.84	70+00	-	1849		205.44	22.80			10.27	10.27	0.03		1.14	
	138	Milan	70+00	75+00	-	1094		121.56	13.49			6.08	6.08	0.02		0.67	
	139	Milan	75+00	80+00	-	2149		238.78	26.50			11.94	11.94	0.03		1.32	
	140	Milan	80+00	85+00	Eastwood	1387		154.11	17.11			7.71	7.71	0.02		0.85	
	141	Milan	85+00	90+00	-	4897	164	544.11	60.40		18	27.21	27.21	0.08		3.01	
																0.00	
	142	Milan	90+00	95+00	Woodlawn	2272		252.44	28.02			12.62	12.62	0.04		1.40	
	143	Milan	95+00	100+00	Force	2815		312.78	34.72			15.64	15.64	0.04		1.73	
	144	Milan	100+00	102+09.19	Dewitt	1353		150.33	16.69			7.52	7.52	0.02		0.83	
	145	Milan	120+33.36	124+00		3211		356.78	39.60			17.84	17.84	0.05		1.97	
	146	Milan	124+00	129+00	N. Mall	6774		752.67	83.55			37.63	37.63	0.10		4.17	
																0.00	
	147	Milan	129+00	134+00	S. Mall	7594		843.78	93.66			42.19	42.19	0.12		4.67	
	148	Milan	134+00	138+00	-	2688		298.67	33.15			14.93	14.93	0.04		1.65	
	149, 249, & 250	Milan	138+00	143+00	Hull	24099		2677.67	297.22			133.88	133.88	0.37		14.82	
	150	Milan	143+00	148+00	-	3107		345.22	38.32			17.26	17.26	0.05		1.91	
	151	Milan	148+00	153+00	-	5115		568.33	63.09			28.42	28.42	0.08		3.15	
																0.00	
	152	Milan	153+00	158+00	N. Meijer's	6778		753.11	83.60			37.66	37.66	0.11		4.17	
	153	Milan	158+00	163+00	-	4726		525.11	58.29			26.26	26.26	0.07		2.91	
	154	Milan	163+00	168+00	S. Meijer's	6113		679.22	75.39			33.96	33.96	0.09		3.76	
	155	Milan	168+00	173+00	-	9818		1090.89	121.09			54.54	54.54	0.15		6.04	
	156	Milan	173+00	178+00	-	7632		848.00	94.13			42.40	42.40	0.12		4.69	
																0.00	
	157 & 255	Milan	178+00	183+00	Crossings	7768		863.11	95.81			43.16	43.16	0.12		4.78	
	254 & 255	Crossings	45+00	48+70	-	5366		596.22	66.18			29.81	29.81	0.08		3.30	
	158	Milan	183+00	188+00	-	5532		614.67	68.23			30.73	30.73	0.09		3.40	
	159 & 259	Milan	188+00	193+00	Fun	9000		1000.00	111.00			50.00	50.00	0.14		5.54	
	160	Milan	193+00	197+00	Bay Winds	7507	69	834.11	92.59		8	41.71	41.71	0.12		4.62	
																0.00	
	261	S. Park Pl.	45+00	48+50	Bay Winds	10195		1132.78	125.74			56.64	56.64	0.16		6.27	
	262	S. Park Pl.	50+16.23	52+68.16	-	5824		647.11	71.83			32.36	32.36	0.09		3.58	
	161	Milan	197+00	201+00	Ramada	9089	0	1009.89	112.10		0	50.49	50.49	0.14		5.59	
	162	Milan	201+00	206+00	SR-2 WB	28212		3134.67	347.95			156.73	156.73	0.44		17.35	
	268	SR-2 WB	1+00	5+50	-	45289		5032.11	558.56			251.61	251.61	0.70		27.85	
																0.00	
	163	Milan	206+00	211+00	-	3905		433.89	48.16			21.69	21.69	0.06		2.40	
	164	Milan	211+00	216+00	SR-2 EB	16748	154	1860.89	206.56		17	93.04	93.04	0.26		10.30	
	165	Milan	216+00	221+00	-	10392	73	1154.67	128.17		8	57.73	57.73	0.16		6.39	
	166	Milan	221+00	226+00	Beatty	8254	30	917.11	101.80		3	45.86	45.86	0.13		5.08	
	167	Milan	226+00	230+00	-	3682		409.11	45.41			20.46	20.46	0.06		2.26	
																0.00	
	168	Milan	230+00	234+00	-	6741		749.00	83.14			37.45	37.45	0.10		4.15	
																0.00	
	272 & 273	Bogart	362+00	367+00	-	4884		542.67	60.24			27.13	27.13	0.08		3.00	
	273 & 274	Bogart	367+00	370+53	-	8727		969.67	107.63			48.48	48.48	0.14		5.37	
	274	Bogart	371+18	374+00	-	16760	62	1862.22	206.71		7	93.11	93.11	0.26		10.31	
	275	Bogart	374+00	377+50	Kingsley	18560		2062.22	228.91			103.11	103.11	0.29		11.41	
	276	Bogart	377+50	381+00	-	1555		172.78	19.18			8.64	8.64	0.02		0.96	
	TOTAL TO GENERAL NOTES:							38504	4274	4	61	1925	1925	5.37	8	213	

CALCULATED LMZ
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SEEDING SUBSUMMARY

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WALK & CURB RAMP

PLAN SHEET	STATIONS STREET	FROM	TO	SIDE STREET INCLUDED	608 4" CONCRETE WALK SQ FT		608 CURB RAMP SQ FT	608 CURB RAMP, AS PER PLAN SQ FT
135 & 246	Syc. Line	6+56.23	1+87.13	US-6	3576		910	
136	Syc. Line	16+73.63	19+45.42	Milan	1912		529	
137	Milan	66+28.84	70+00	-	2548			
138	Milan	70+00	75+00	-	1561			145
139	Milan	75+00	80+00	-	3102			
140	Milan	80+00	85+00	Eastwood	2773		225	
141	Milan	85+00	90+00	-	3791			464
142	Milan	90+00	95+00	Woodlawn	5012			201
143	Milan	95+00	100+00	Force	2568		254	
144	Milan	100+00	102+09.19	Dewitt	981		128	
145	Milan	120+33.36	124+00		2606		473	
146	Milan	124+00	129+00	N. Mall	6039		426	69
147	Milan	129+00	134+00	S. Mall	5402		910	235
148	Milan	134+00	138+00	-	6097			
149, 249, & 250	Milan	138+00	143+00	Hull	6221		993	
150	Milan	143+00	148+00	-	6594			146
151	Milan	148+00	153+00	-	6672			256
152	Milan	153+00	158+00	N. Meijer's	6243		876	
153	Milan	158+00	163+00	-	7241			541
154	Milan	163+00	168+00	S. Meijer's	6704		413	292
155	Milan	168+00	173+00	-	6766			688
156	Milan	173+00	178+00	-	7496			832
157 & 255	Milan	178+00	183+00	Crossings	5785		1083	
254 & 255	Crossings	45+00	48+70	-				
158	Milan	183+00	188+00	-	6458			323
159 & 259	Milan	188+00	193+00	Fun	5743		976	369
160	Milan	193+00	197+00	Bay Winds	2956		473	343
261	S. Park Pl.	45+00	48+50	Bay Winds				
262	S. Park Pl.	50+16.23	52+68.16	-	738		387	
161	Milan	197+00	201+00	Ramada	4950		310	348
162	Milan	201+00	206+00	SR-2 WB	4512		138	
268	SR-2 WB	1+00	5+50	-				
163	Milan	206+00	211+00	-	8688			
164	Milan	211+00	216+00	SR-2 EB	4737		412	100
165	Milan	216+00	221+00	-	4303			145
166	Milan	221+00	226+00	Beatty	6646		128	
167	Milan	226+00	230+00	-	1784			
168	Milan	230+00	234+00	-	2583			88
272 & 273	Bogart	362+00	367+00	-				
273 & 274	Bogart	367+00	370+53	-	642		496	
274	Bogart	371+18	374+00	-	1885		553	
275	Bogart	374+00	377+50	Kingsley			354	
276	Bogart	377+50	381+00	-				160
TOTALS CARRIED TO GENERAL SUMMARY					**164315**		**11447**	**5745**

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WALK AND CURB RAMP SUBSUMMARY

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REMOVALS

PLAN SHEET REFERENCES	STATIONS STREET	FROM	TO	SIDE STREET INCLUDED	OFFICE CALCS - CADD AREAS: PAVEMENT REMOVED, ASPHALT (SQ FT)	PAVEMENT REMOVED, ASPHALT DRIVE (SQ FT)	PAVEMENT REMOVED, ASPHALT, INCLUDING EMBANKEMNT (SQ FT)	PAVEMENT REMOVED, CONCRETE DRIVE (SQ FT)	PAVEMENT REMOVED, CONCRETE (SQ FT)	ISLAND REMOVED (SQ FT)	EXCAVATION, EARTH (SQ FT)	202 PAVEMENT REMOVED (SQ YD)	202 TRAFFIC ISLAND REMOVED (SQ YD)	202 WALK REMOVED (FROM OFFICE CALC) (SQ FT)	202 CURB REMOVED (FROM OFFICE CALC) (FT)	202 CURB & GUTTER REMOVED (FROM OFFICE CALC) (FT)	ASSUMED THICKNESS (FT)	203 EXCAVATION (CU YD)	ASSUMED THICKNESS (FT)	203 EMBANKEMNT (CU YD)
135 & 246	Syc. Line	6+56.23	1+87.13	US-6	1042		3054	1825	2577		1551	944	0	1697	340	788	1	57	1	113
136	Milan	16+00	20+00			63						7	0	1761	320		1	0	1	0
137	Milan	66+28.84	70+00	-	219	981	1242	381			29	314	0	334	171	195	1	1	1	46
138	Milan	70+00	75+00	-	75	154		388				69	0	228	18	70	1	0	1	0
139	Milan	75+00	80+00	-	204			2251				273	0	720		108	1	0	1	0
140	Milan	80+00	85+00	Eastwood	242	443	46	1629				262	0		39	248	1	0	1	2
141	Milan	85+00	90+00		478	3748	2118	4251		37	859	1177	4	1054	135	573	1	32	1	78
142	Milan	90+00	95+00	Woodlawn	454	563	2869	1914				644	0	294	280	492	1	0	1	106
143	Milan	95+00	100+00	Force	116			201				35	0			117	1	0	1	0
144	Milan	100+00	102+09.19	Dewitt	21							2	0	35		21	1	0	1	0
145	Milan	120+33.36	124+00		474	187					296	73	0			410	1	11	1	0
146	Milan	124+00	129+00	N. Mall	770	2421					849	355	0		70	618	1	31	1	0
147	Milan	129+00	134+00	S. Mall	868	2364	450	1692			2005	597	0	145	251	712	1	74	1	17
148	Milan	134+00	138+00	-	538			286				92	0			458	1	0	1	0
149, 249, & 250	Milan	138+00	143+00	Hull Rd	9391	3245	116570	3481			28	14743	0		654	1261	1	1	1	4317
150	Milan	143+00	148+00	-	494	1299	338	640				308	0		151	500	1	0	1	13
151	Milan	148+00	153+00	-	180	27		417				69	0			183	1	0	1	0
152	Milan	153+00	158+00	N. Meijer's	212		875					121	0			213	1	0	1	32
153	Milan	158+00	163+00	-	233	2864		162			1832	362	0		40	370	1	68	1	0
154	Milan	163+00	168+00		325	1280	450	737		54	957	310	6		140	325	1	35	1	17
155	Milan	168+00	173+00	-	251	3127	940	1281			1736	622	0		88	426	1	64	1	35
156	Milan	173+00	178+00	-	288	5931		187			1701	712	0		45	500	1	63	1	0
157 & 255	Milan	178+00	183+00	Crossings	1523	84	1076				7106	298	0		154	1046	1	263	1	40
254 & 255	Crossings	45+00	48+70	-	763	1703	813					364	0		159	523	1	0	1	30
158	Milan	183+00	188+00	-	855	1243	25	813			1239	326	0		13	631	1	46	1	1
159 & 259	Milan	188+00	193+00	Fun	618	2102	2202				1341	547	0		247	566	1	50	1	82
160	Milan	193+00	197+00		578	4983	1993	1706			430	1029	0		395	588	1	16	1	74
262	S. Park Pl.	50+16.23	52+68.16	-		9362	846					1134	0		481	135	1	0	1	31
261	S. Park Pl.	45+00	48+50	Bay Winds		9650	6641					1810	0		874		1	0	1	246
161	Milan	197+00	201+00	Ramada	2547	748	2028	3922		556		1027	62		478	794	1	0	1	75
162	Milan	201+00	206+00	SR-2 WB	2514					1268		279	141		776	340	1	0	1	0
268	SR-2 WB	1+00	5+50	-	4169							463	0				1	0	1	0
163	Milan	206+00	211+00	-	1025					6311		114	701		1001		1	0	1	0
164	Milan	211+00	216+00	SR-2 EB	1086		1161	1628		753	971	431	84		445	276	1	36	1	43
165	Milan	216+00	221+00	-	364	1201	2540	5585			643	1077	0		144	610	1	24	1	94
166	Milan	221+00	226+00	Beatty		690	1854	2327			105	541	0		62	557	1	4	1	69
167	Milan	226+00	230+00			215		827			84	116	0			44	1	3	1	0
168	Milan	230+00	235+00		26	832	99	1301			1265	251	0		19	129	1	47	1	4
272 & 273	Bogart	362+00	367+00	-	14476	1778		315				1841	0				1	0	1	0
273 & 274	Bogart	367+00	370+53	-	15164	2623		1032		1072	1457	2091	119			481	1	54	1	0
274	Bogart	371+18	374+00	-	11454	660	579	1378			21	1563	0		63	330	1	1	1	21
275	Bogart	374+00	377+50	Kingsley	10522	625						1239	0				1	0	1	0
276	Bogart	377+50	381+00	-	3435	804						471	0				1	0	1	0
TOTALS CARRIED TO GENERAL SUMMARY												39104	1117	6268	8053	15638	982		5586	

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SUBSUMMARY - SHEET 1 OF 2

REMOVALS

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REMOVALS, R

REF. NO.	SHEET NO.	STATION FROM	STATION TO OR AT	202 GUARDRAIL REMOVED FT	202 FENCE REMOVED FT	202 REMOVAL MISC.: COMMERCIAL SIGN EACH	202 BUILDING DEMOLISHED, AS PER PLAN LUMP
R1	136	16+73.63	19+45.42			1	
R1	141	85+00	90+00			1	
R1	149	138+00	143+00		42		
R2	149	140+20	140+84				1
R1	154		163+86			1	
R1	160		195+50			1	
R2	160		196+04			1	
R3	160		195+79			1	
R1	167	228+72	229+11		39		
R2	167	229+58	230+00		42		
R3	167	228+13	228+58	45			
R1	168	230+00	234+00		107		
R2	168	230+00	234+00		59		
R1	274	373+53	374+00	47			
R2	274	372+99	374+00	101			
R1	275	374+00	375+14	113			
R2	275	374+00	375+05	108			
SUBTOTALS				414	289	6	1
TOTALS CARRIED TO GENERAL SUMMARY				**414**	**289**	**6**	**1**

PULL BOX REMOVALS, PB

REF. NO.	SHEET NO.	STATION	625 PULL BOX REMOVED EACH
PB1	135	0+83	1
PB1	145	120+96	1
PB2	145	122+86	1
PB3	145	123+78	1
PB1	146	124+02	1
PB2	146	124+88	2
PB3	146	125+12	3
PB4	146	126+23	1
PB5	146	127+73	1
PB1	147	129+54	1
PB2	147	130+80	1
PB3	147	132+22	1
PB4	147	132+59	1
PB5	147	133+32	1
PB6	147	132+90	1
PB7	147	133+52	3
PB8	147	133+90	1
PB1	148	135+40	1
PB2	148	136+44	1
PB3	148	137+48	1
PB4	148	137+86	1
PB1	149	138+78	1
PB2	149	139+59	3
PB3	149	140+47	1
PB4	149	141+76	1
PB1	150	143+05	2
PB2	150	145+51	1
PB3	150	147+49	1
PB1	151	149+79	1
PB2	151	151+89	1
PB3	151	152+11	1
PB1	152	153+52	1
PB2	152	154+10	1
PB3	152	154+92	1
PB4	152	154+99	3
PB5	152	155+28	1
PB6	152	155+99	1
PB7	152	156+08	1
PB8	152	157+45	1
PB9	152	157+81	1
PB1	153	159+22	1
PB1	154	165+99	2
PB1	156	177+97	1
PB1	157	179+96	1
PB2	157	180+81	1
PB3	157	181+01	1
PB4	157	181+24	1
PB5	157	181+79	1
PB6	157	182+09	1
TOTALS CARRIED TO LAST TABLE			60

REF. NO.	SHEET NO.	STATION	625 PULL BOX REMOVED EACH
PB7	157	182+14	1
PB8	157	182+41	1
PB1	158	183+47	1
PB2	158	183+70	1
PB3	158	185+34	1
PB4	158	185+63	1
PB5	158	186+63	1
PB6	158	187+99	1
PB1	159	188+62	1
PB2	159	189+23	1
PB3	159	188+67	1
PB4	159	189+46	1
PB5	159	190+82	1
PB6	159	191+56	1
PB7	159	191+92	1
PB8	159	192+34	1
PB1	160	193+40	1
PB2	160	194+10	1
PB3	160	197+37	1
PB4	160	194+65	1
PB5	160	194+83	1
PB6	160	195+30	2
PB7	160	195+71	2
PB8	160	195+60	1
PB9	160	196+43	1
PB1	161	197+50	1
PB2	161	198+67	1
PB3	161	199+13	1
PB4	161	200+54	1
PB5	161	200+69	1
PB1	162	202+19	1
PB2	162	202+29	3
PB3	162	202+69	1
PB4	162	202+84	1
PB5	162	203+14	1
PB6	162	203+89	1
PB7	162	204+05	1
PB8	162	205+38	1
PB1	163	206+46	1
PB2	163	210+04	1
PB1	164	211+39	1
PB2	164	211+37	1
PB3	164	211+26	1
PB4	164	212+73	1
PB5	164	213+39	3
PB6	164	214+65	1
PB7	164	215+85	1
PB1	166	223+81	1
PB2	166	224+72	1
PB3	166	225+40	1
TOTALS CARRIED TO NEXT TABLE			56

REF. NO.	SHEET NO.	STATION	625 PULL BOX REMOVED EACH
PB4	166	226+00	1
PB1	167	227+04	1
PB2	167	227+34	1
PB3	167	227+63	1
PB4	167	228+26	1
PB5	167	227+67	1
PB6	167	228+16	1
PB7	167	228+78	1
PB1	268	2+72	1
PB2	268	3+83	1
PB3	268	5+53	1
PB1	273	367+39	1
PB2	273	368+78	1
PB1	274	372+98	1
PB2	274	373+85	1
TOTALS THIS TABLE			15
TOTALS FROM PREVIOUS TABLE			60
TOTALS FROM PREVIOUS TABLE			56
TOTALS CARRIED TO GENERAL SUMMARY			**131**

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REMOVALS SUBSUMMARY - SHEET 2 OF 2

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MAILBOX, MB

REF. NO.	SHEET NO.	STATION	202 MAILBOX REMOVED EACH	690 SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE EACH	690 SPECIAL MAILBOX SUPPORT SYSTEM, DOUBLE EACH
MB1	139	77+66	1	1	
MB2	139	78+29	1	1	
MB3	139	78+89	1	1	
MB4	139	79+50	1	1	
MB1	140	80+06	1	1	
MB2	140	80+65	1	1	
MB3	140	81+25	1	1	
MB4	140	82+46	1	1	
MB5	140	83+09	1	1	
MB6	140	83+62	1	1	
MB1	141	87+40	1	1	
MB2	141	88+05	1	1	
MB1	150	143+55	2		1
MB1	156	175+06	1	1	
MB1	157	182+58	1	1	
MB2	157	182+68	1	1	
MB1	158	184+90	1	1	
MB2	158	186+68	1	1	
MB1	166	223+95	1	1	
MB2	166	225+04	1	1	
MB1	272	363+49	1	1	
MB1	273	365+59	1	1	
MB2	273	365+58	2		1
MB3	273	367+27	1	1	
MB4	273	368+25	1	1	
MB1	275	375+03	1	1	
MB2	275	376+62	1	1	
MB1	276	378+14	2		1
TOTALS CARRIED TO GENERAL SUMMARY			**31**	**25**	**3**

CALCULATED LMZ
CHECKED GAB

MAILBOX SUBSUMMARY

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DRAINAGE SUBSUMMARY (2 of 4)

CALCULATED JLT
CHECKED GAB

ERI-250-0.00

SHT NO.	REF. NO.	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	SPEC FILL AND PLUG EXISTING CONDUIT FT	601 ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER SQ YD	602 CONCRETE MASONRY CU YD	605 4" BASE PIPE UNDERDRAINS FT	611 4" CONDUIT, TYPE B FT	611 4" CONDUIT, TYPE F, AS PER PLAN FT	611 6" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B, 706.02 FT	611 12" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE A FT	611 24" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 30" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE C FT	611 48" X 76" CONDUIT, TYPE A, 706.04 FT	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 3A, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 7 EACH	611 CATCH BASIN, NO. 2-2B, AS PER PLAN EACH	611 CATCH BASIN, NO. 2-3, AS PER PLAN EACH	611 CATCH BASIN FRAME & GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6, AS PER PLAN EACH	611 INLET, NO. 2-A-8, AS PER PLAN EACH	611 INLET RECONSTRUCTED TO GRADE EACH	611 INLET FRAME AND GRATE, AS PER PLAN 6' EACH	611 INLET FRAME AND GRATE, AS PER PLAN 8' EACH	611 INLET FRAME AND GRATE, AS PER PLAN 10' EACH	611 MANHOLE NO. 3, AS PER PLAN EACH	611 MANHOLE FRAME AND COVER EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH
155	D1	55			1									51															1																
	D2	25			1									25															1																
	D3													22															1																
	D4																																1										
	D5																																1										
	D6	12			1																																							
	D7																																											
	D8	12			1																																						1	
	D9																																										1	
	D10																																										1	
156	D1	7			1												10														1													
	D2																																										1	
157	D1				1														10										1														
	D2													7																1														
	D3	10			1														10																									
	D4													36																1														
	D5													65																1														
	D6														38															1														
	D7													161																1														
	D8																																											
	D9				1																																						
	D10	16			1		79																																					
	D11				1																																						
158	D1	10			1									10					10											1														
159	D1	5			1									5																										1			
	D2													30															1														
	D3																																										1	
	D4																																										1	
	D5																																										1	
160	D1	5			1												76												1														
	D2													6															1														
	D3		20																							20														1			
	D4	10	20			1											10									20														1			
	D5													74															1														
	D6													6															1														
	D7	11				1																																					
161	D1													10															1														
	D2	30	10		1								10						20							10														1			
	D3	20			1								20																1														
	D4	10			1								10																1														
	D5	10			1														10																						1			
	D6																																										1	
	D7																																									1			
	D8													18															1														
	D9	16			1																																						
	D10	5			1									5															1														
TOTALS TO GEN SUM		269	50	0	19	2	79	0	0	0	0	0	40	531	38	0	96	0	60	0	0	0	0	0	0	50	0	0	9	12	0	0	0	0	1	0	2	0	0	0	0	0	6	1	8	0

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SHT NO.	REF. NO.	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	SPEC FILL AND PLUG EXISTING CONDUIT FT	601 ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER SQ YD	602 CONCRETE MASONRY CU YD	605 4" BASE PIPE UNDERDRAINS FT	611 4" ROCK CUT UNDERDRAINS FT	611 4" CONDUIT, TYPE F, AS PER PLAN FT	611 6" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B, 706.02 FT	611 12" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE A FT	611 24" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 30" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE C FT	611 48" X 76" CONDUIT, TYPE A, 706.04 FT	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 3A, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 7 EACH	611 CATCH BASIN, NO. 2-2B, AS PER PLAN EACH	611 CATCH BASIN, NO. 2-3, AS PER PLAN EACH	611 CATCH BASIN FRAME & GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6, AS PER PLAN EACH	611 INLET, NO. 2-A-8, AS PER PLAN EACH	611 INLET RECONSTRUCTED TO GRADE EACH	611 INLET FRAME AND GRATE, AS PER PLAN 6' EACH	611 INLET FRAME AND GRATE, AS PER PLAN 8' EACH	611 INLET FRAME AND GRATE, AS PER PLAN 10' EACH	611 MANHOLE NO. 3, AS PER PLAN EACH	611 MANHOLE FRAME AND COVER EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH
162	D1	10				1											12											1																	
	D2		34						0.76																	38																				
	D3		6					21.25	1.34																		36																				
	D4		6					57.13	1.34																		15																				
	D5								0.92													84																								
	D6	73																																												
	D7								0.66											81																										
164	D1	25																					6																						
	D2													16																																
	D3							5.556	0.6																	55																				
	D4	9				1								6																																
	D5	22				1																																							
165	D1																																												
166	D1													28																																
	D2													47																																
	D3																																												
	D4																																												
167	D1															12																														
	D2																																												
	D3													10																																
	D4	20																		20																										
	D5																																												
	D6													17			10			10																										
168	D1																																												
	D2																																												
HULL ROAD																																												
249	D1	10			1									10			48	57																											
	D2	89		1																																								
	D3	44			1																																							
	D4	99		1																																							
	D5	7			1																																							
	D6				1																																							
	D7										274																																	
	D8										196																																	
	D9				1																																							
250	D1										40	10																																
	D2										40	10																																
FUN DRIVE																																												
259	D1	3			1									6															1														
	D2																																												
TOTALS TO GEN SUM		411	46	2	6	3	0	84	6	0	550	20	0	140	0	12	70	57	81	30	0	84	6	0	55	0	38	51	2	2	0	1	2	0	0	0	1	1	4	1	0	1	4	0	1	2

DRAINAGE SUBSUMMARY (3 of 4)

CALCULATED JLT
CHECKED GAB

ERI-250-0.00

93
677

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SHT NO.	REF. NO.	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	SPEC FILL AND PLUG EXISTING CONDUIT FT	601 ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER SQ YD	602 CONCRETE MASONRY CU YD	605 4" BASE PIPE UNDERDRAINS FT	611 4" CONDUIT, TYPE B FT	611 4" CONDUIT, TYPE F, AS PER PLAN FT	611 6" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE B, 706.02 FT	611 12" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE B FT	611 21" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE A FT	611 24" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 30" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE C FT	611 48" X 76" CONDUIT, TYPE A, 706.04 FT	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 3A, AS PER PLAN EACH	611 CATCH BASIN, NO. 6, AS PER PLAN EACH	611 CATCH BASIN, NO. 7 EACH	611 CATCH BASIN, NO. 2-2B, AS PER PLAN EACH	611 CATCH BASIN, NO. 2-3, AS PER PLAN EACH	611 CATCH BASIN FRAME & GRATE EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 2-A-6, AS PER PLAN EACH	611 INLET, NO. 2-A-8, AS PER PLAN EACH	611 INLET RECONSTRUCTED TO GRADE EACH	611 INLET FRAME AND GRATE, AS PER PLAN 6' EACH	611 INLET FRAME AND GRATE, AS PER PLAN 8' EACH	611 INLET FRAME AND GRATE, AS PER PLAN 10' EACH	611 MANHOLE NO. 3, AS PER PLAN EACH	611 MANHOLE FRAME AND COVER EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH
S. PARK PL.																																														
261	D1									188		2																																			
	D2									266		2																																			
262	D1									67		18					61												1																
	D2									50		18		40															1																
	D3	36			1											47																1												
	D4				1					167		20					8												1																
	D5	31			1					209		20					37												1																
	D6													10					10																											
	D7	58			1																																								
	D8	31	20	1															31								20																	
BOGART RD																																													
272	D1	20			1													20																										
	D2	20			1													20																										
273	D1	7			1												10																										
	D2	48			1									52																														
	D3	5			1									10				86																										
	D4	5											15	91		5																												
	D5									194		10		52															1																
	D6									205		20		10															1																
	D7	10														10																												
	D8	62			1																																							
	D9	125			1																																							
274	D1	30			1																																							
	D2	14			1																																							
	D3	49			1																																							
	D4	25			1																																							
	D5																														1												
	D6								0.21					5		117																												
	D7									99																																	
	D8									215																																	
	D9									165																																	
275	D1									125		20		50															1															
	D2									127		20		5		24													1															
	D3																																										1		
	D4															17																												
	D5	10																											5	18												1		
	D6									190		10																				1												
	D7									111		10																			37			1										
	D8																														5	11		1								1		
	D9													5		109																		1										
	D10									57		10		28																				1										
	D11													9																														
	D12								0.76																																			
	D13								0.21							44																													
	D14	83			1																																							
276	D1									143																																		
	D2									143																																		
TOTALS TO GEN SUM		669	20	1	16	0	0	0	1	2,721	0	180	15	367	0	373	116	126	41	0	0	0	5	18	0	62	87	0	9	4	0	0	9	0	0	0	0	0	0	0	0	6	0	0	0

DRAINAGE SUBSUMMARY (4 of 4)

CALCULATED JLT
CHECKED GAB

ERI-250-0.00

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SHEET NO.	REF. NO.	202 PIPE REMOVED, 24" AND UNDER FT.	202 CATCH BASIN REMOVED EACH	202 MANHOLE ABANDONED EACH		611 12" CONDUIT, TYPE B FT.		611 CATCH BASIN, NO. 3 WITH 2' SUMP, AS PER PLAN EACH	611 CATCH BASIN, NO. 3A WITH 2' SUMP, AS PER PLAN EACH	611 MANHOLE ADJUSTED TO GRADE EA	611 MANHOLE RECONSTRUCTED TO GRADE EA	
100% PROJECT COST												
SYCAMORE LINE												
135	S1	2	1			8			1			
	S2	23	1			37			1			
	S3	18	1			12		1				
	S4	2	1			30			1			
BOGART ROAD												
272	S1									1		
275	S1										1	
	S2										1	
	S3										1	
	S4										1	
	S5			1								
100% ERIE CO. COST												
US 250												
143	S1									1		
146	S1									1		
153	S1									3		
154	S1									1		
155	S1									1		
156	S1									1		
166	S1									1		
167	S1									1		
168	S1										1	
TOTALS TO GENERAL SUMMARY		**45**	**4**	**1**		**87**		**1**	**3**	**11**	**5**	

CALCULATED JLT
CHECKED GAB

SANITARY SUBSUMMARY

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WATER SUBSUMMARY - 100% ERIE CO. COSTS

CALCULATED LMZ
CHECKED GAB

REF. NO.	SHEET NO.	STATION	OFFSET	638 6" GATE VALVE & VALVE BOX EACH	638 FIRE HYDRANT REMOVED AND RESET EACH	638 VALVE BOX ADJUSTED TO GRADE EACH	638 SERVICE BOX ADJUSTED TO GRADE EACH	638 WATER WORK, MISC.: SERVICE BOX RELOCATED WITH NEW SERVICE LINE EACH	638 FIRE HYDRANT ADJUSTED TO GRADE EACH	638 6" FIRE HYDRANT EACH	638 16" CUTTING-IN SLEEVE EACH	638 12" CUTTING-IN SLEEVE EACH	638 FIRE HYDRANT AND GATE VALVE REMOVED AND RESET EACH	638 WATER MISC.: MANHOLE RECONSTRUCTED WITH HEAVY FRAME & COVER EACH	638 WATER MISC.: MANHOLE ADJUSTED TO GRADE EACH
W1	139	77+33	LT				1								
W2	139	78+71	LT				1								
W3	139	79+17	LT		1		1								
W1	140	80+15	LT				1								
W2	140	80+75	LT				1								
W3	140	82+23	LT				1								
W4	140	83+01	LT				1								
W5	140	83+57	LT				1								
W1	141	87+44	LT			1	1								
W2	141	87+85	LT				1								
W1	142	90+66	RT						1						
W1	144	99+94	LT			1									
W1	146	124+81	RT						1						
W1	147	133+15	RT			1									
W1	149	139+74	RT		1										
W1	150	143+52	LT				1								
W2	150	144+02	LT				1								
W3	150	143+87	RT						1						
W1	151	148+85	RT			1			1						
W1	152	153+87	RT						1						
W1	153	162+80	LT											1	
W1	154	163+54	LT		1										
W2	154	165+66	LT				1								
W3	154	167+05	LT		1										
W1	155	171+49	LT	1						1	1				
W2	155	172+70	RT				1								
W1	157	179+54	LT						1						
W2	157	180+76	LT						1						
W3	157	181+88	LT			1									
W4	157	181+81	RT						1						
W1	158	185+16	RT				2								
W1	159	188+70	RT			1									
W2	159	188+77	LT			1									
W3	159	189+86	LT			1									
W4	159	190+27	LT				1								
W1	160	196+28	RT			1									
W1	161	198+50	RT				1								
W1	164	214+40	LT		1										
W2	164	215+81	LT												2
W1	165	219+80	LT	1						1	1				
W2	165	220+50	LT			2								1	
W1	166	222+31	LT				1								
W2	166	222+52	LT						1						
W3	166	222+97	LT				1								
W4	166	223+47	LT			1									
W5	166	223+78	RT				1								
W6	166	225+03	RT				1								
W7	166	225+74	RT				1								
W1	167	227+68	LT												2
W2	167	227+92	LT											1	1
W1	254	47+50	RT									1	1		
TOTALS CARRIED TO GENERAL SUMMARY				**2**	**5**	**12**	**23**	**0**	**9**	**2**	**2**	**1**	**1**	**3**	**5**

ERI-250-0.00

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REF. NO.	SHEET NO.	STATION	OFFSET	638 6" GATE VALVE & VALVE BOX EACH	638 FIRE HYDRANT REMOVED AND RESET EACH	638 VALVE BOX ADJUSTED TO GRADE EACH	638 SERVICE BOX ADJUSTED TO GRADE EACH	638 WATER WORK, MISC.: SERVICE BOX RELOCATED WITH NEW SERVICE LINE EACH	638 FIRE HYDRANT ADJUSTED TO GRADE EACH	638 6" FIRE HYDRANT EACH	638 16" CUTTING-IN SLEEVE EACH	638 12" CUTTING-IN SLEEVE EACH	638 FIRE HYDRANT AND GATE VALVE REMOVED AND RESET EACH	638 WATER MISC.: MANHOLE RECONSTRUCTED WITH HEAVY FRAME & COVER EACH	638 WATER MISC.: MANHOLE ADJUSTED TO GRADE EACH
W1	135	8+25	RT		1										
W2	135	1+45	LT					1							
W1	136	18+80	LT				1								
W1	249	139+92	LT											1	
W1	274	371+70	LT			2								1	
W2	274	373+00	LT		1										
W1	275	376+50	LT										1		
W1	276	378+31	LT					1							
TOTALS CARRIED TO GENERAL SUMMARY				0	2	2	1	2	0	0	0	0	1	2	0

CALCULATED LMZ
CHECKED GAB

WATER SUBSUMMARY - 100% PROJECT COST

ERI-250-0.00

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677

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USGS QUADRANGLE MAPS: SANDUSKY, OHIO

GEODETIC LOCATION

LATITUDE *	LONGITUDE *
N 41°-25'-08"	W 82°-40'-28"

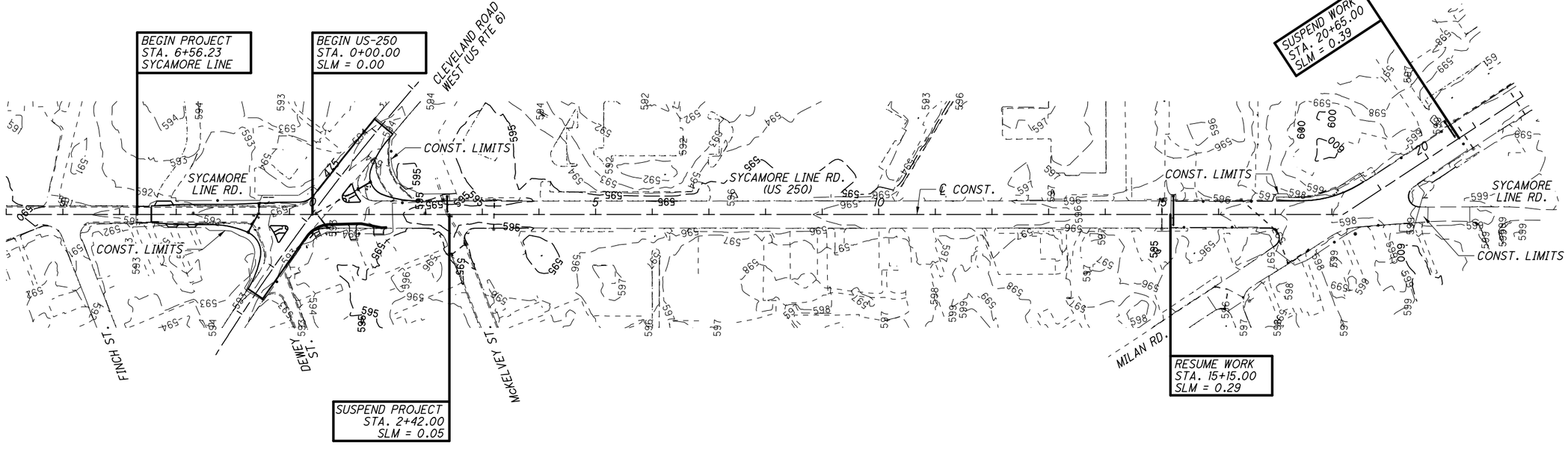
* LATITUDE AND LONGITUDE TO APPROX. CENTER OF PROJECT

PROJECT DESCRIPTION

THIS PROJECT INCLUDES IMPROVING US 250 (MILAN ROAD) BY UPGRADING THE EXISTING TRAFFIC SIGNALS AND SIGNING, INCORPORATING ACCESS MANAGEMENT, AND ADDING TURN LANES WHERE NEEDED. A FIVE FOOT WIDE SIDEWALK WILL ALSO BE ADDED IN AREAS WHERE SIDEWALK IS MISSING. ADDITIONAL LANES ON THE SR 2 INTERCHANGE RAMPS WILL BE ADDED. SIDEROAD IMPROVEMENTS INCLUDE HULL ROAD, CROSSINGS ROAD, FUN DRIVE, US 2 RAMPS "B" AND "C" AND BOGART RD. NEW ALIGNMENT AND CONSTRUCTION WILL BE AT THE PARK PLACE SOUTH DRIVE INTERSECTION WITH US 250

PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY)	46.7 ACRES
PROJECT EARTH DISTURBED AREA	21.7 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	2.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA	24.0 ACRES
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	35.0 ACRES
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	39.1 ACRES
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.76
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.81
SOIL AND WATER CONSERVATION MAPS	ERIE COUNTY SOIL MAP
IMMEDIATE RECEIVING WATERS	PIPE CREEK, SULPHUR BROOK, HEMMING DITCH, PLUM BROOK, & LINDSLEY DITCH
SUBSEQUENT RECEIVING WATERS	LAKE ERIE



HORIZONTAL SCALE IN FEET
0 50 100 200

CALCULATED | CHECKED

PROJECT SITE PLAN
STA. 4+00 TO STA. 22+00

ERI-250-0.00

130
677

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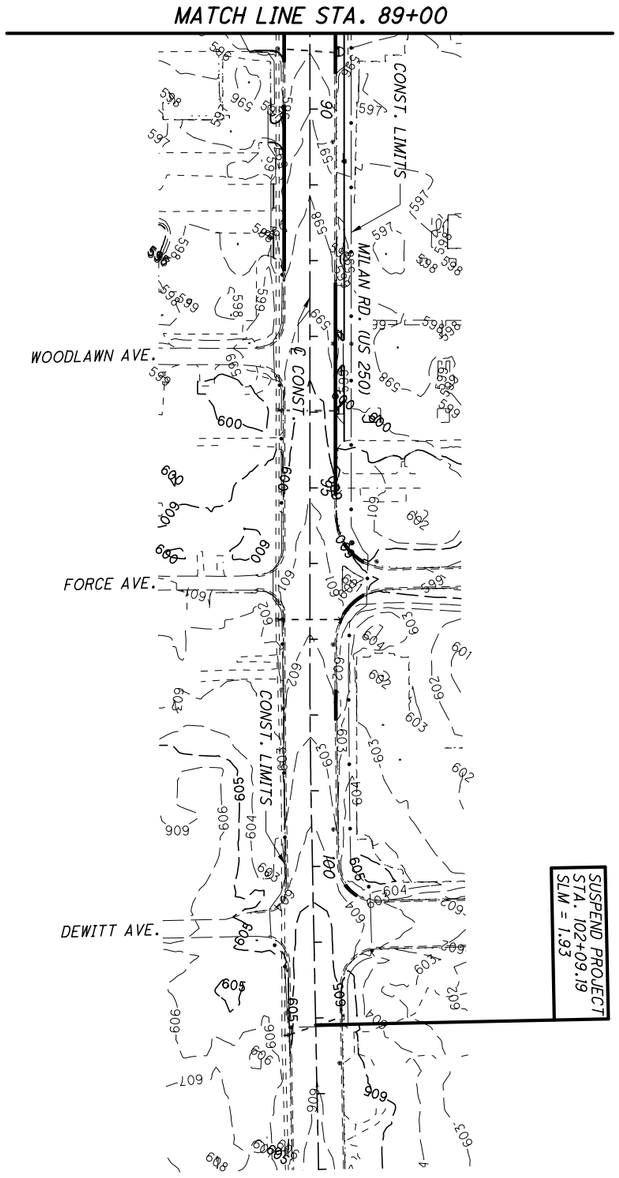
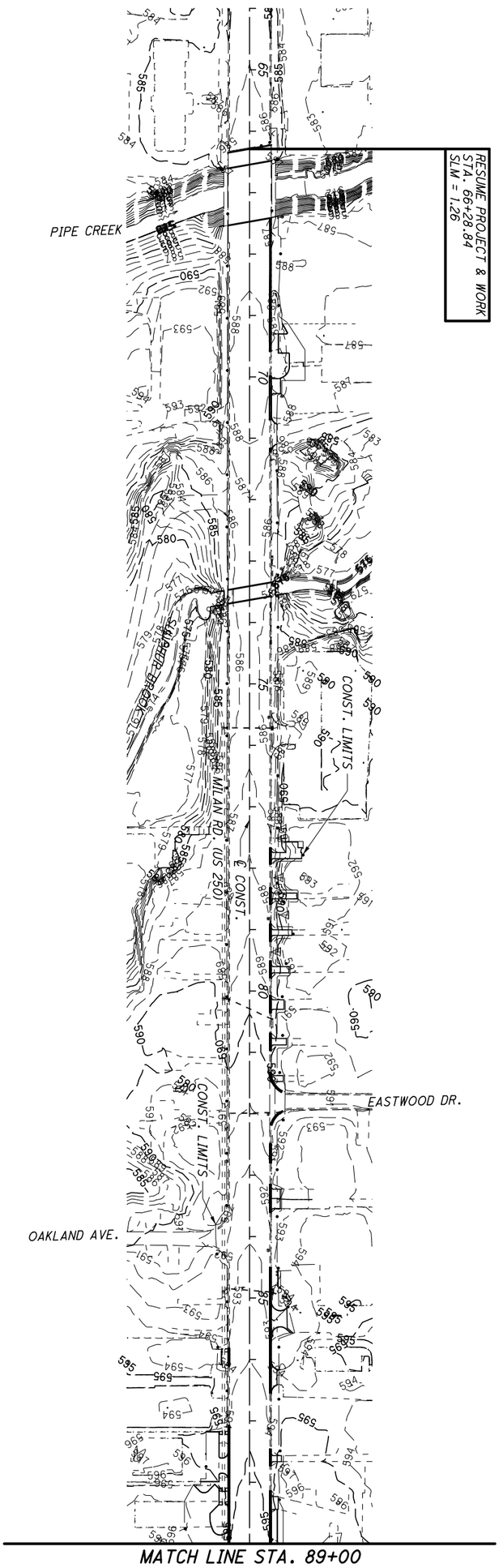
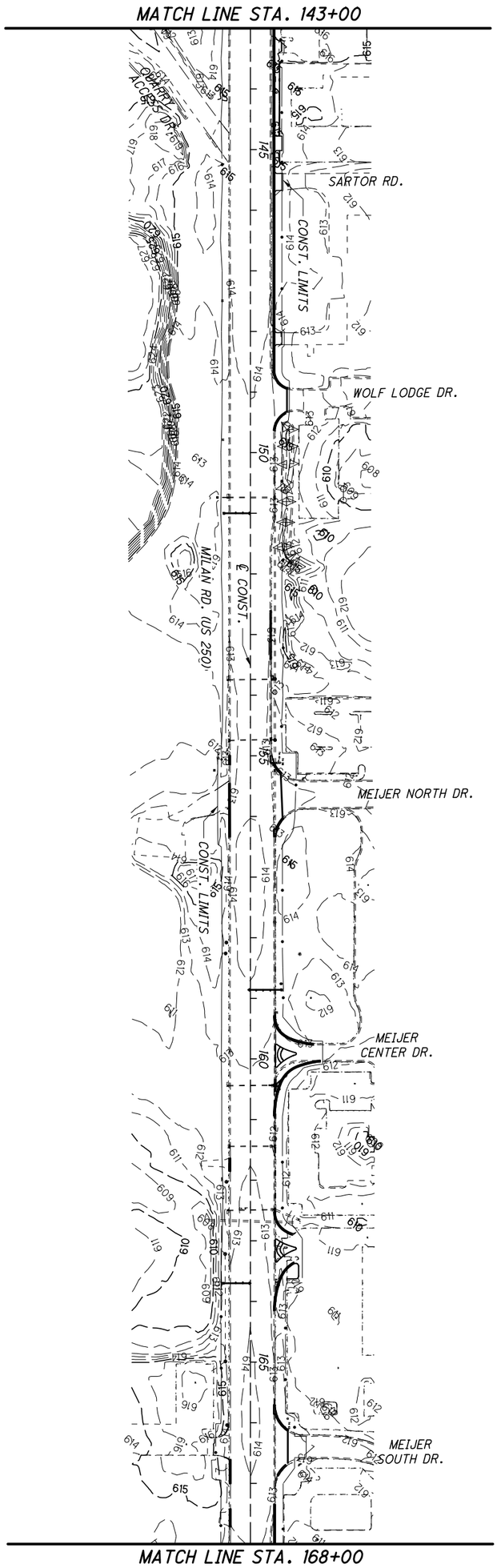
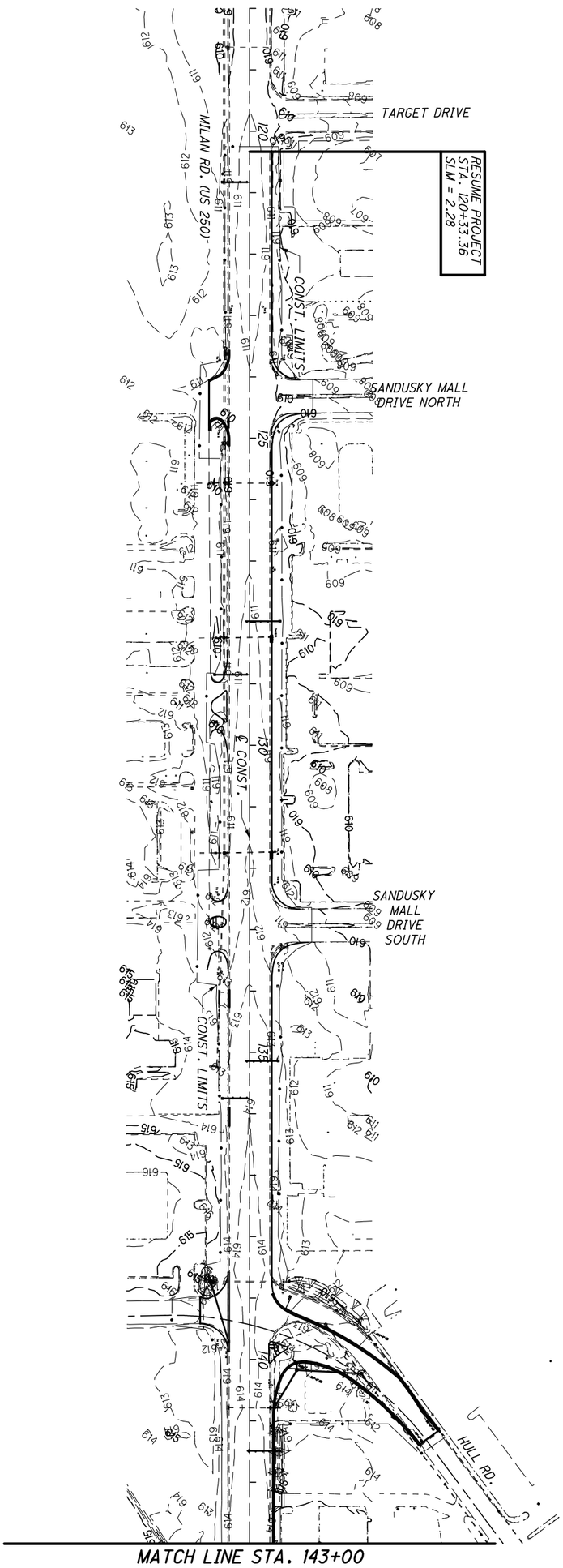




131 / 677	ERI-250-0.00	PROJECT SITE PLAN STA. 64+00 TO STA. 104+00	CALCULATED CHECKED	0 100 50 200 HORIZONTAL SCALE IN FEET





132 / 677	ERI-250-0.00	PROJECT SITE PLAN STA. 118+00 TO STA. 168+00	CALCULATED / CHECKED 0 50 100 200 HORIZONTAL SCALE IN FEET

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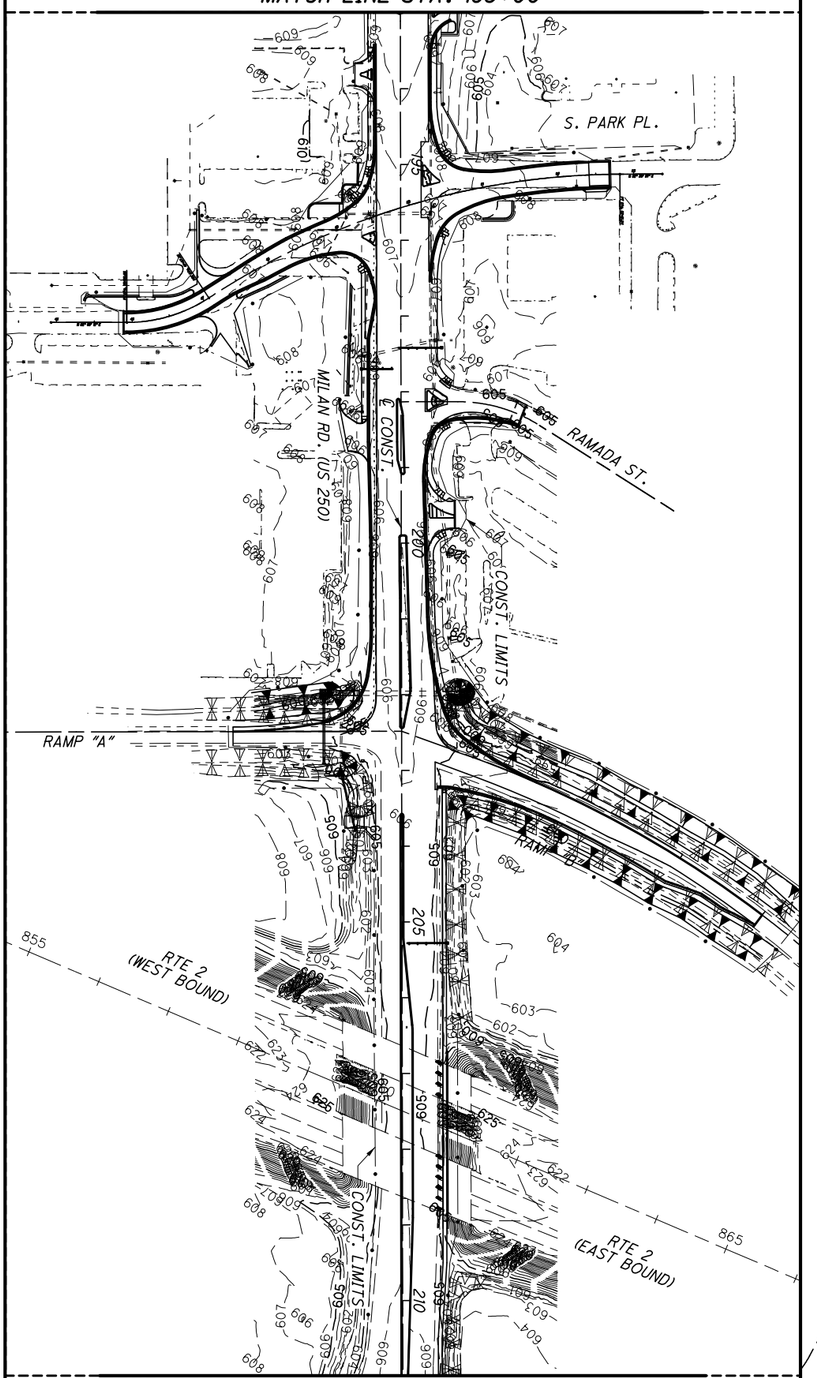
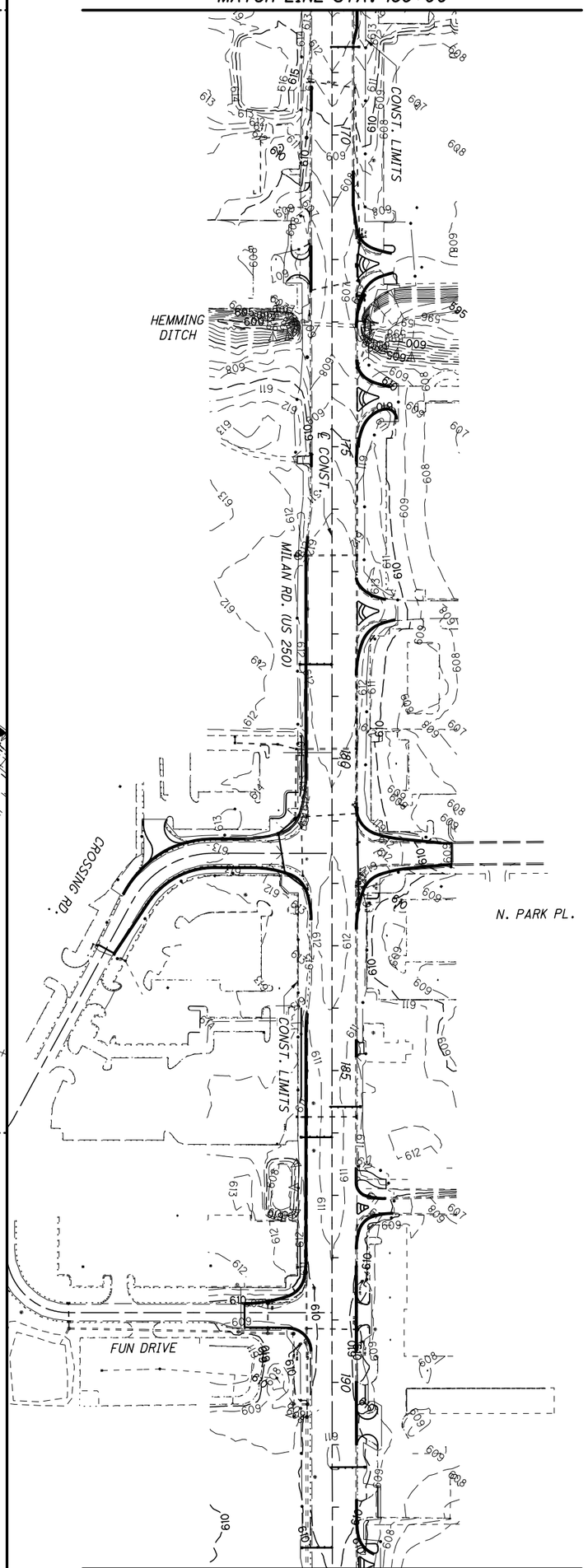
MATCH LINE STA. 193+00



MATCH LINE STA. 211+00

MATCH LINE STA. 168+00



MATCH LINE STA. 193+00

133 / 677	ERI-250-0.00	PROJECT SITE PLAN STA. 168+00 TO STA. 211+00	CALCULATED / CHECKED	0 50 100 200 HORIZONTAL SCALE IN FEET

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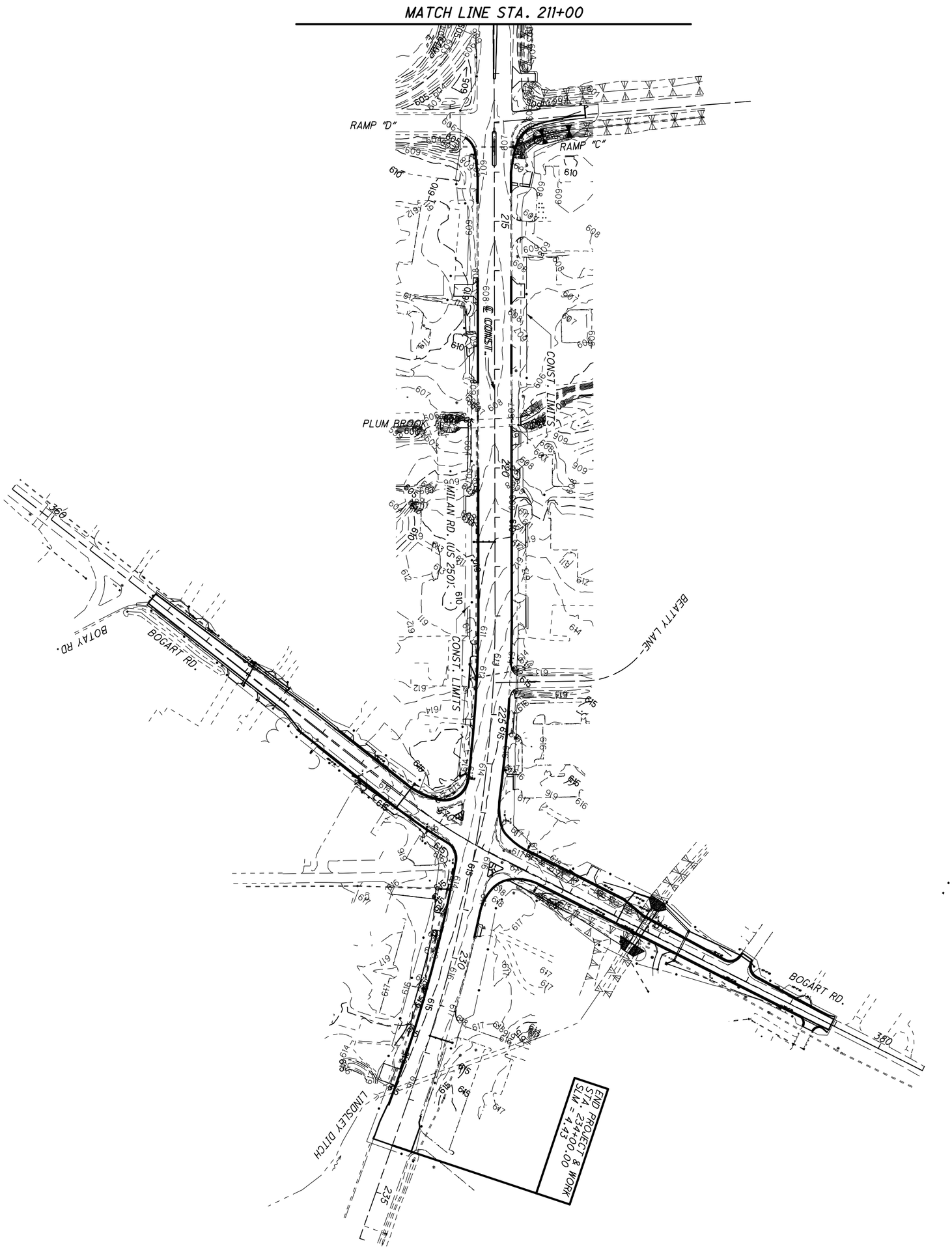

134 / 677	ERI-250-0.00	PROJECT SITE PLAN STA. 211+00 TO STA. 236+00	CALCULATED / CHECKED	0 50 100 200 HORIZONTAL SCALE IN FEET

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
295 & 296	Intersection Detail
246	Cleveland Rd (US-6) Plan&Profile
429-433	Proposed Signal Plan

BEGIN WORK
STA. 6+56.23
SYCAMORE LINE

BEGIN PROJECT US-250
STA. 0+00.00
SLM = 0.00

SUSPEND PROJECT
STA. 2+42.00
US-250
(SYCAMORE LINE)

SYCAMORE LINE RD,

℄ SURVEY & CONST.
SYCAMORE LINE

S 02° 31' 27" E

S 02° 33' 0" E

STA. 9+40.50 SYCAMORE LINE (BACK)=
STA. 0+00.00 US-250 (AHEAD)

CONST. LIMITS

SAW CUT

DO NOT DISTURB

TO BE RELOCATED BY OWNER

TO BE REMOVED BY OWNER

SORTINO'S SIGN

SPOT LIGHT

CONC. SIGN DO NOT DISTURB

SANDTOWN AUTO SIGN W/UNDG. DO NOT DISTURB

SANDTOWN AUTOMOTIVE #1001

GARAGE

THE ROSE GARDEN

PLANTER W/ LOOSE BLOCK

STA. 8+23.43' RT.
FIRE HYDRANT, REMOVED AND RESET

US 6 (CLEVELAND ROAD)

+78 Comm. Drive

+93, Com. Drive, Remove

+93 Res. Drive

+28 Res. Drive

+17 Res. Drive

DR1 DR2 DR3 DR4 DR5 DR6

S1 S2 S3 S4

W1 W2

PB1

TH 1 TH 2 TH 3 TH 4

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Full Depth Pavement Replacement (Concrete)
- TH # Quality Level A Test Hole

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED
CHECKED

PLAN AND PROFILE - SYCAMORE LINE
STA. 6+00.00 TO STA. 2+42.00

ERI-250-0.00

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EXISTING PROFILE ALONG ℄ CONST.

591.51 591.78 592.17 592.48 592.82 593.40 593.70 593.54 594.09 594.90 595.32

605 600 595 590 585 580 575 570

6+00 7+00 8+00 9+00 0+00 1+00 2+00

STA. 8+27.0, 31.5' RT
PROP. CB-3A W/2' SUMP, AS PER PLAN
T/GRATE = 592.04
℄ 12" SE =586.84 (TRAP)
BOTTOM = 584.84

STA. 8+46.2, 19.7' LT.
PROP. CB-3A w/2' SUMP, AS PER PLAN
T/GRATE = 592.20
℄ 12" W = 589.7± (TRAP)
BOTTOM = 587.7±

STA. 0+24.0, 19.7' RT
PROP. CB-3 W/2' SUMP, AS PER PLAN
T/GRATE = 592.83
℄ 12" NE = 589.9± (TRAP)
BOTTOM = 587.9±

STA. 1+02.7, 57.5' LT
PROP CB-3A, W/2' SUMP, AS PER PLAN
T/GRATE = 593.09
℄ 12" NW = 591.7± (TRAP)
BOTTOM = 589.7±

PROP. PROFILE GRADE=
EXIST. PROFILE GRADE

TO BE REMOVED
(SV 6211)
STA. 8+32.8, 16.9' RT.
EX. CB = 592.21
FULL OF DEBRIS

TO BE REMOVED
(SV 6169)
STA. 8+46.5, 13.9' LT.
EX. CB = 592.41
℄ 12" W=589.71

TO BE REMOVED
(SV 11284)
STA. 0+27.3, 23.9' RT
EX. CB = 592.74
℄ 12" NE=589.84

TO BE REMOVED
(SV 11283)
STA. 0+81.3, 45.2' LT.
EX. CB = 593.30
℄ 12" NW=591.60

(SV90225)
STA. 7+30.03, 2.18' LT.
EX. CS MH, T/RIM=591.88
℄ 15" N&S=582.98

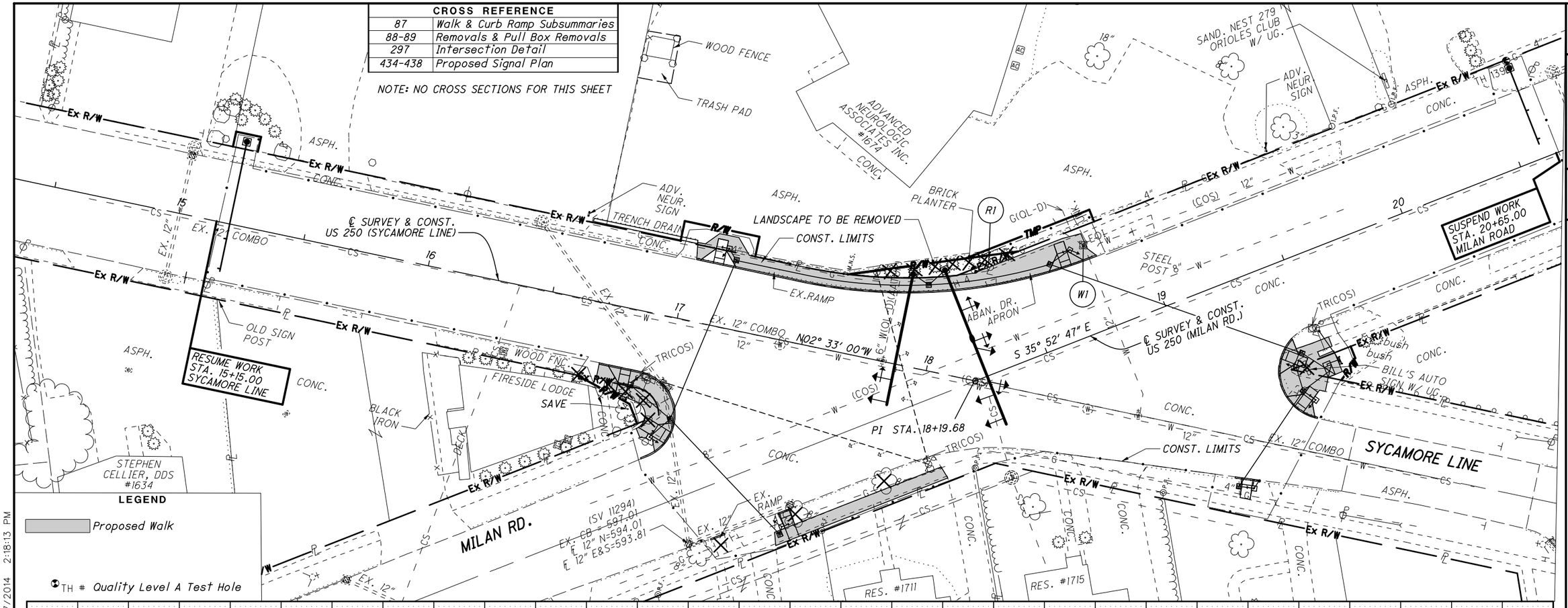
(SV90223)
STA. 8+45.57, 1.86' LT.
EX. CS MH, T/RIM=592.59
℄ 12" E&W=584.99
℄ 15" N&S=583.99
℄ 12" NW=584.99

(SV90223)
STA. 0+06.41, 2.01' LT.
EX. CS MH, T/RIM=593.67
℄ 12" SW=589.67
℄ 12" SE=589.07
℄ 15" N&S=584.07

(SV90226)
STA. 1+98.88, 2.27' LT.
EX. CS MH, T/RIM=595.14
℄ 15" N&S=584.94

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
297	Intersection Detail
434-438	Proposed Signal Plan

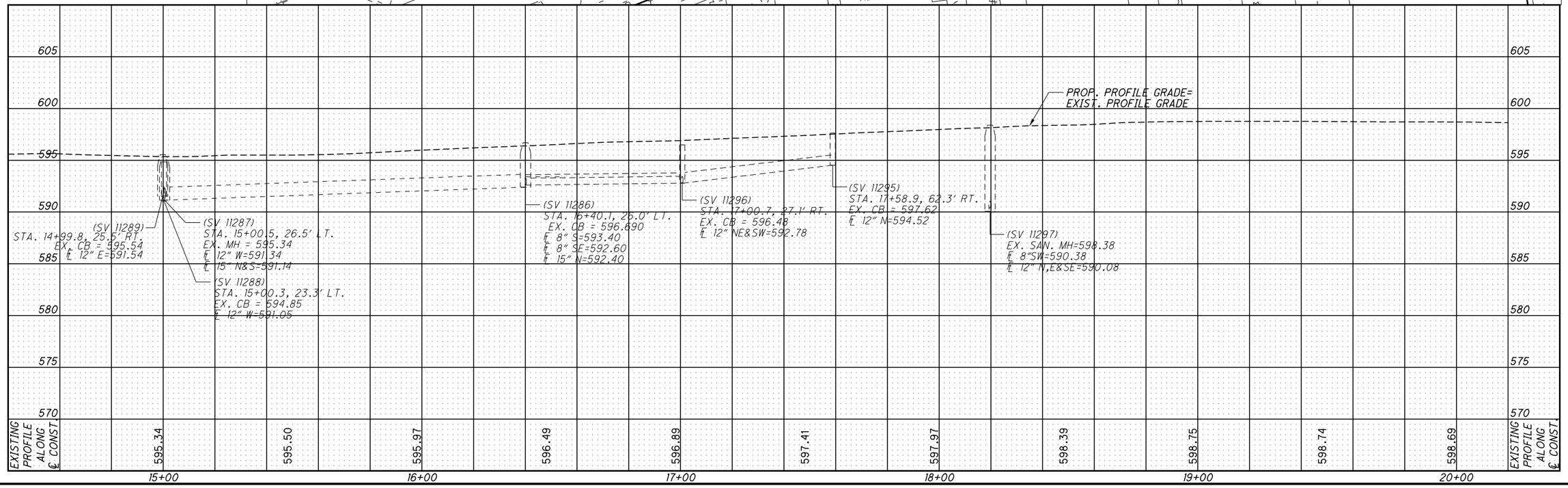
NOTE: NO CROSS SECTIONS FOR THIS SHEET



LEGEND

Proposed Walk

TH # Quality Level A Test Hole



HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - US 250
STA. 15+00.00 TO STA. 20+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

TRAILER
TWICE THE ICE
ASPH.
8" BRUSH
ABAN. SITE (FORMER PONDEROSA)
+97, Com. Drive, Remove
+47, Com. Drive, Remove
+42, Com. Drive, Remove
CONST. LIMITS
LANDSCAPE WITH TIES AND ROCKS (TO BE REMOVED)
DIANNA'S DELI REST. SIGN
DR7
(DO NOT DISTURB)
SAVE
EXIT PORT SIGN
SAW CUT
DO NOT DISTURB
DO NOT DISTURB
MATCH LINE STA. 70+00 US 250
S 35° 52' 03" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
CONC.
ASPH.
CONST. LIMITS
RESUME PROJECT STA. 66+28.84 SLM = 1.26
PIPE CREEK
CHAIN LINK
RES. #2917
#2905 RODE WAY INN
Ex U
Ex SH
TMP
18" CAN
16"
4"

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

PROP. PROFILE GRADE= EXIST. PROFILE GRADE
EXIST. BRIDGE
EX. GAS (LT.)

EXISTING PROFILE ALONG ℄ CONST	586.03	586.29	586.60	586.79	587.09	587.42	587.73	587.93	588.29	588.37	588.67	EXISTING PROFILE ALONG ℄ CONST

595 590 585 580 575 570 565 560

65+00 66+00 67+00 68+00 69+00 70+00

PLAN AND PROFILE - US 250
STA. 65+00.00 TO STA. 70+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

MATCH LINE STA. 70+00 US 250

MATCH LINE STA. 75+00 US 250

+15, Com. Drive, Reconstr

+94, Com. Drive, No Work

10' WIDE BENE

PUTT-PUTT

DO NOT DISTURB

ASPH.

8" W

PVC FENCE

TMP

bush

Ex U

SAN 18"

Ex SH

CONC.

SAVE

DR7

DO NOT DISTURB

GUY TO BE RELOCATED BY OWNER

+70

+17

+23

GOOFY GOLF SIGN

PVC FENCE

DO NOT DISTURB FENCE

BLACK IRON FENCE

CONST. LIMITS

LAMAR BOARD (35121) ADC # 25646 & 27721/27617

6" & 12" Siphon

STM

12"

D1

ASPH.

CONC.

Ex SW

BLACK IRON FENCE

SAN 18"

70 71 72 73 74 75

℄ SURVEY & CONST. US 250 (MILAN RD.)

S 35° 52' 03" E

CONST. LIMITS

WOOD POST W/ CABLE FNC

PARKVIEW

6"

8"

12"

EX. 36" STM.

PLAN NORTH

SULPHUR BROOK

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

EXISTING PROFILE ALONG ℄ CONST.

588.67 588.53 588.20 587.51 586.98 586.53 586.38 586.34 586.23 586.34 586.35

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EXIST. BRIDGE

EX. GAS LT.

REPLACE I-2A-6 INLET FRAME & COVER, (SV1155) STA. 72+94.9, 34.9' LT. EX. CB = 585.75 ℄ 12" S=581.65

12" STM.

18" SAN.

6" & 12" SIPHON

(SV 11302) STA. 73+12.6, 52.1' LT. EX. SAN. MH = 585.63 ℄ 6"&12" S=573.83(SIPHON) ℄ 18" N=573.83

(SV 11303) STA. 73+78.7, 53.3' LT. EX. SAN. MH = 586.05 ℄ 6"&12" N=574.95(SIPHON) ℄ 18" S=575.95 ℄ 4" E=578.05

EX. 36" (RT.)

(SV 192) STA. 74+32.3, 34.8' LT. EX. CB = 584.94 ℄ 12" W=578.64 ℄ 12" N=578.34

595 590 585 580 575 570 565 560

70+00 71+00 72+00 73+00 74+00 75+00

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CHECKED

PLAN AND PROFILE - US 250 STA. 70+00.00 TO STA. 75+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED

CHECKED

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT, APPROX. LOCATION

RES. #3112 RES. #3114 RES. #3116 RES. #3118 RES. #3202

+80, Res. Dr. +45, Res. Drive +05, Res. Drive, Re +65, Res. Drive, Recc

POINTE PLAZA SIGN

+84, Com. Drive, No Work

8" post 6" post

SAVE SAVE

CONST. LIMITS

STA. 79+17, 43' LT. FIRE HYDRANT REMOVED AND RESET

DO NOT DISTURB DO NOT DISTURB DO NOT DISTURB

W1 W2 W3

MB1 MB2 MB3 MB4

DR8 DR9 DR10 DR11

MATCH LINE STA. 75+00 US 250

MATCH LINE STA. 80+00 US 250

S 35° 52' 03" E S 35° 52' 03" E

℄ SURVEY & CONST. US 250 (MILAN RD.)

CONST. LIMITS

48" STORM

RES. #3111 RES. #3113 RES. #3117 RES. #3119 RES. #3201

DECK DECK

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EX. GAS (LT.)

EX. 48" (RT.) PER PLAN.

EX. 36" (RT.)

18" SAN. 18" SAN. 18" SAN.

(SV 296)
STA. 75+12.1, 36.7 LT.
EX. CB = 585.49
℄ 8" NE=581.49
℄ 12" W=581.49

(SV 297)
STA. 75+54.4, 31.4' LT.
EX. SAN. MH = 585.50
℄ 18" NE&S=576.10

(SV 424)
STA. 78+82.2, 30.5' LT.
EX. SAN. MH = 587.77
℄ 18" N&S=576.87

EXISTING PROFILE ALONG ℄ CONST.	586.35	586.35	586.74	587.10	587.44	587.84	588.10	588.67	588.90	589.33	589.68	EXISTING PROFILE ALONG ℄ CONST.

595 590 585 580 575 570 565 560

75+00 76+00 77+00 78+00 79+00 80+00

PLAN AND PROFILE - US 250
STA. 75+00.00 TO STA. 80+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

EASTWOOD DR.

OAKLAND AVE.

MATCH LINE STA. 80+00 US 250

MATCH LINE STA. 85+00 US 250

℄ SURVEY & CONST. US 250 (MILAN RD.)

N 35° 52' 003" W

CONST. LIMITS

RELOCATED BY OWNER

SAW CUT

DO NOT DISTURB

5' WIDE ITEM 660 SODDING

3' DROP CURB CENTERED AT STA. 80+60

GUY TO BE RELOCATED

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT, APPROX. LOCATION

CONC. BLK. PLANTER

DECK

51' RT.

41' RT.

51' LT.

2" RT.

36" BLOCK PLNTR.

48" STORM

48" STM

24" CROSSING

8" ABND.

RES. #3201
RES. #3203
RES. #3204
RES. #3206
RES. #3207
RES. #3210
RES. #3212
RES. #3215
RES. #3301
RES. #3303

W1 W2 W3 W4 W5
MB1 MB2 MB3 MB4 MB5 MB6
DR12 DR13 DR14 DR15 DR16 D1

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Item 660, Sodding

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EX. GAS (LT.)

EX. 48" (RT.) PER PLAN

(SV 491) STA. 80+92.1, 35.2' LT.
EX. CB = 589.13
℄ 12" W=585.23

(SV 558) STA. 81+97.7, 52.2' LT.
EX. CB = 589.73
℄ 12" W=586.53

(SV 562) STA. 82+00.5, 30.5' LT.
EX. SAN. MH = 590.39
℄ 10" E=578.39
℄ 18" N&S=577.79

(SV 940) STA. 84+22.3, 30.3' LT.
EX. SAN. MH = 591.96
℄ 8" W=587.56
℄ 18" N&S=578.46

(SV 893) STA. 84+99.1, 59.5' LT.
EX. CB = 593.90
℄ 8" NW=588.90 (QTY 3)
℄ 18" SE=588.90

(SV 912) STA. 84+89.7, 35.1' LT.
EX. CB = 592.56
℄ 8" SE=588.76 (QTY 3)
℄ 12" W=588.66

REPLACE I-2A-B INLET FRAME & COVER

18" SAN.

EXISTING PROFILE ALONG ℄ CONST.	589.68	590.15	590.41	590.88	591.12	591.44	592.14	592.60	592.80	593.34	593.40	EXISTING PROFILE ALONG ℄ CONST.
	80+00		81+00		82+00		83+00		84+00		85+00	

600 595 590 585 580 575 570 565

PLAN AND PROFILE - US 250
STA. 80+00.00 TO STA. 85+00.00

ERI-250-0.00

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677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 85+00.00 TO STA. 90+00.00

ERI-250-0.00

141 / 677

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Item 660, Sodding

MATCH LINE STA. 85+00 US 250

MATCH LINE STA. 90+00 US 250

+34, Com. Dr. Reconstruct

ANDY'S CHINA DRAGON

EX. CB = ℄ 12" E= (-6.6) ℄ 18" W= (-6.6)

+30, Com. Dr.. Reconstruct

RES. #3310

RES. #3316

+62, Res. Drive, Reconstruct

+34, Com. Dr. Reconstruct

+07, Com. Drive, Remove

+40, Com. Drive Remove

BUCKEYE UNDERGROUND FIBER IN CONDUIT, APPROX. LOCATION

#3404 CORSO'S FLOWER AND GARDEN CENTER

CORSO'S GARDEN. DO NOT DISTURB

TAPER CURB HEIGHT 0"-6" OVER 5 FEET (TYP.)

CONST. LIMITS

LAQUINTA INN SIGN

ANDY'S CHINA DRAGON SIGN

DO NOT DISTURB

DO NOT DISTURB EXIT SIGN

SAVE

POLE TO BE RELOCATED BY OWNER

SAW CUT

DR16 DR17 DR18 DR19 DR20 DR21 DR22 DR23 D1 D2 R1 MB1 MB2 W1 W2

℄ SURVEY & CONST. US 250 (MILAN RD.)

N 35° 52' 003" W

3' DROP CURB CENTERED AT STA. 85+85

5' WIDE ITEM 660 SODDING

3' DROP CURB CENTERED AT STA. 88+12

3' DROP CURB CENTERED AT STA. 88+34

+96, Comm. Drive, Removed

+78, Com. Drive, No Work

+37, Com. Drive, Remove

+73, Com. Drive, New

+16, Com. Drive, Remove

+00, Com. Drive, Reconstruct

ECONOLODGE SIGN

CASA REAL MEXICAN REST. SIGN

COLDWELL BANKER SIGN DO NOT DISTURB

MINGS GARDEN SIGN DO NOT DISTURB

GHOSTLY'S MANOR SIGN DO NOT DISTURB

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT, APPROX. LOCATION

CONC. PAD PATIO

EX. WALL

DO NOT DISTURB EXIST. WALL

RES. #3305

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EX. GAS (LT.)

2" RT. 24"

8" ABND.

EX. 48" (RT.) PER PLAN

18" SAN.

(SV 816)
STA. 87+12.92, 30.8' LT.
EX. SAN. MH = 593.80
℄ 18" N&S=579.70

ADJUST TO GRADE (RECORD)
STA. 89+20.0, 42.6' RT.
EX. ST. MH = 595.46
℄ 48" N=586.6±
℄ 42" S=587.3±
℄ 12" E=591.0±

REPLACE I-2A-10 INLET FRAME & COVER, (SV 742)
STA. 89+24.0 34.9' LT.
EX. CB = 595.46
℄ 12" W=591.56

EX. 42" (RT.) PER PLAN

EXISTING PROFILE ALONG ℄ CONST.	593.40	593.73	594.00	594.52	594.73	594.99	595.24	595.45	595.75	596.39	596.94	EXISTING PROFILE ALONG ℄ CONST.

600 595 590 585 580 575 570 565

85+00 86+00 87+00 88+00 89+00 90+00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

#3404 CORSO'S FLOWER AND GARDEN CENTER
PLANTER
4' C.L. FNC.
ASPH.
CONST. LIMITS
LANDSCAPE BLOCK WALL (TO BE REMOVED)
LANDSCAPE AREA
CORSO'S GARDEN CENTER SIGN
LANDSCAPE TO BE REMOVED
TAPER CURB HEIGHT 0"-6" OVER 5 FEET (TYP.)
25'R TYP.
ELEC. OUTLET*
WATER SPIGOT*
bushes
CONC.
10'-4"B
DO NOT DISTURB
REMOVED BY OWNER
SAW CUT
MATCH LINE STA. 90+00 US 250
MATCH LINE STA. 95+00 US 250
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 35° 52' 03" W
ABANDONED 6" W
43' RT.
RES. #3505
RES. #3501
WOODLAWN AVE.
Ex R/W
+32 Com. Drive Reconstruct
+16, Com. Drive Remove
+79, Com. Drive Remove
+22, New Com. Drive
+26, Comm. Drive Remove
+91, Comm. Drive Remove
FRIENDLY'S SIGN DO NOT DISTURB
CAR WASH DO NOT DISTURB
MONRO MUFFLER BRAKE
DO NOT DISTURB LANDSCAPING & LIGHT POLE
D1
D2
DR23
DR24
W1

STA. 90+68.8, 49.5' LT.
PROP. CB-6, AS PER PLAN
T/GRATE = 596.00
℄ 4" N =593.9±
TO BE REMOVED
(SV 722)
STA. 90+68.8, 44.1' LT.
EX. CB = 596.00
℄ 4"N=593.90
(SV 727)
STA. 90+43.4, 30.3' LT.
EX. SAN. MH = 596.20
℄ 18" N&S=580.40
PROP. PROFILE GRADE= EXIST. PROFILE GRADE
EX. GAS (LT.)
EX. 42" (RT.) PER PLAN
8" ABND.
18" SAN.
12" SAN.
(SV 686)
STA. 93+09.8, 54.8' LT.
EX. SAN. MH = 598.28
℄ 18" S&W=581.28
(SV 684)
STA. 93+09.6, 30.6' LT.
EX. SAN. MH = 598.29
℄ 12" S=587.59 (DROP)
℄ 18" N&W=581.29
℄ 18" E=581.70(record)
REPLACE I-2A-6 INLET FRAME & COVER,
(SV 675)
STA. 93+99.0, 34.9' LT.
EX. CB = 599.30
℄ 12" W 595.70

EXISTING PROFILE ALONG ℄ CONST	596.94	597.44	597.82	598.22	598.72	598.85	599.44	599.93	600.33	600.73	600.87	EXISTING PROFILE ALONG ℄ CONST

605 600 595 590 585 580 575 570

90+00 91+00 92+00 93+00 94+00 95+00

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PLAN AND PROFILE - US 250
STA. 90+00.00 TO STA. 95+00.00

ERI-250-0.00

142
677

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

P.I.= Sta. 98+28.34
D = 1° 09′ 45″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 116.25′
L = 232.49′
E = 0.59′
C = 232.49′
C.B. = S 36° 26′ 55″ E

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

PLAN AND PROFILE - US 250
STA. 95+00.00 TO STA. 99+00.00

ERI-250-0.00

143
677

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P.I.= Sta. 98+28.34
D = 1° 09′ 45″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 116.25′
L = 232.49′
E = 0.59′
C = 232.49′
C.B. = S 36° 26′ 55″ E

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

SUSPEND PROJECT
STA. 102+09.19
SLM = 1.93

MATCH LINE STA. 99+00 US 250

PT Sta. 99+44.58

DEWITT AVE.

CONST. LIMITS

57′ LT.

47′ RT.

SAW CUT

WALK

SIGNAL POLE

ABANDONED 6″

6″ ABAND.

℄ SURVEY & CONST.
US 250 (MILAN RD.)

SIGN NOTHING ON SIGN

BLDG. SITE AVAILABLE

STN.

CONC. BLOCK SIGN VETERAN HOME

ASPH.

CAR WASH

VACUUM

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

PROP. PROFILE GRADE=
EXIST. PROFILE GRADE

4″ GAS CROSSING

4″ RIGHT

6″ TO 8″ TRANSITION ABANDONED

8″ ABND.

6″ ABND.

EX. GAS (LT.)

(SV 1110)
STA. 101+99.3, 34.7′ LT.
EX. CB = 605.33
℄ 12″ W=601.43

EX. 42″ (RT.) PER PLAN

12″ SAN.

(SV 1019)
STA. 99+51.6, 28.8′ LT.
EX. SAN. MH = 603.03
℄ 12″ N&S=588.83

(SV 1145)
STA. 102+60.1, 30.5′ LT.
EX. SAN. MH = 604.95
℄ 12″ N&S=589.5

EXISTING PROFILE ALONG ℄ CONST.

603.51 604.05 604.35 605.04 605.46 605.57 605.67 605.87 606.04 606.08 606.33

99+00 100+00 101+00 102+00 103+00 104+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CHECKED

PLAN AND PROFILE - US 250
STA. 99+00.00 TO STA. 104+00.00

ERI-250-0.00

144
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
298	Intersection Detail
439-443	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

TARGET DRIVE
ASPH.
U.G.
TARGET U.G.
8" W
10" W
4" W
+33.36
R/W
CTV
Ex U
Ex SH
FO
G
ROCKS (TYP.)
6" ABND.
BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT, APPROX. LOCATION
CONST. LIMITS
PORTABLE SIGN
PIZZA HUT U.G.
HOMER SAVING U.G.
DO NOT DISTURB
DO NOT DISTURB LANDSCAPING
TMP
SIGNAL POLE (15)PD
PB2
PB3
D1
D2
5'-12" B @ 1.0%
MATCH LINE STA. 124+00 US 250
SAW CUT
119
120
121
122
123
S 37° 01' 48" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
PB1
16" W
EX. 30"
1 1/4" UNK. FUNCTION CUT STEEL CONDUIT (AATFI)
TH 147
GROUND WIRE
FUTURE WALK BY OTHERS PER ERI-250-1.92
CONST. LIMITS
UNK.
(2) 10'-30" B
WAGNER QUARRY DO NOT DISTURB
RESUME PROJECT STA. 120+33.36 SLM = 2.28
Q.H. ELEC.
billboard
LAMAR #9481, 9482,9483
ADC #25896
ADC #25897
LAMAR #947

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

615
610
605
600
595
590
585
580

EXISTING PROFILE ALONG ℄ CONST.

610.84 610.91 611.17 611.33 611.39 611.40 611.53 611.40 611.30 611.11 610.94

BUCKEYE UNDERGROUND FIBER IN CONDUIT APPROX. LOCATION
STA. 120+70.6, 40.6' LT. 12'x6'x7' TELE. VAULT
PROP. PROFILE GRADE= EXIST. PROFILE GRADE
30" STM.
STA. 123+61.8, 35.0' RT
PROP. CB-3, AS PER PLAN
T/GRATE = 610.12
℄ 12" W = 606.43
STA. 123+61.8, 39.7' RT
PROP MH-3, AS PER PLAN
T/RIM=610.70
℄ 12' E = 606.38
℄ 30' N+S = 602.64

119+00 120+00 121+00 122+00 123+00 124+00

PLAN AND PROFILE - US 250
STA. 119+00.00 TO STA. 124+00.00

ERI-250-0.00

145
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
298	Intersection Detail
439-443	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED

CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

MATCH LINE STA. 124+00 US 250

MATCH LINE STA. 129+00 US 250

SANDUSKY MALL DRIVE NORTH

95' LT.

82' LT.

DO NOT DISTURB LANDSCAPING, LIGHT POLE, OR FLAG POLE

DO NOT DISTURB ROCKS, POSTS, OR SIGN IN ISLAND

ROCK (TYP.) TO BE REMOVED

TRASH CAN

WATER SPIGOT

McDONALDS U.G.

BEST BUY U.G.

CONST. LIMITS

1 1/4" IRR. CONDUIT (QI-D)

IRR. VALVE

MOVABLE

(9)PD 4" & CLV TH 137

5'-12"B

6'-12"B

SAW CUT

6" WATER ABND.

GAS POST DO NOT DISTURB

℄ SURVEY & CONST. US 250 (MILAN RD.)

S 37° 01' 48" E

10'-30"B

6'-12"B @ 1.0%

DO NOT DISTURB

EX. 30"

EX. 24"

EX. 12"

UNK.

SIGNAL BOX

CONST. LIMITS

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT, APPROX. LOCATION

ENTER U.G.

EXIST U.G.

PICK UP WINDOW

AVERY-GREENFIELD 69KV LINE AB SW A-22

EXIST U.G.

COMMERCE PLAZA 4201 U.G.

LEE'S CHICKEN U.G.

WENDY'S U.G.

(SV 1527)
STA. 125+73.1, 59.0' RT.
EX. CB = 609.46
℄ 12" E&W=604.66

(SV 1562)
STA. 128+28.0, 55.2' RT.
EX. CB = 608.64
℄ 12" E=606.24
℄ 8" W=606.74

STA. 125+73.1, 36.0' LT.
PROP. CB-3, AS PER PLAN
T/GRATE = 609.84
℄ 12" W = 607.47±

STA. 128+23.6, 36.0' LT
PROP. CB-3, AS PER PLAN
T/GRATE = 610.10
℄ 12" S&N = 607.1±

STA. 128+29.7, 36.0' LT
PROP. CB-3, AS PER PLAN
T/GRATE = 610.13
℄ 12" N = 607.20

STA. 124+85±, 50.2' LT.
12'x6'x7' TELE. VAULT

STA. 128+32.4, 42.7' LT.
12'x6'x12' TELE. VAULT

STA. 125+08.0, 35.0' RT
PROP CB-3, AS PER PLAN
T/GRATE = 609.96
℄ 12" W = 606.25

STA. 125+08.0, 41.0' RT
PROP MH-3, AS PER PLAN
T/RIM = 610.10
℄ 12" E = 606.19
℄ 30" N+S = 603.14

STA. 125+72.2, 40.9' RT.
EX. MH = 610.61
℄ 12" W=604.61
℄ 12" E=606.11
℄ 30" N&S=603.41

ADJUST TO GRADE
(SV 1525)

TO BE REMOVED
(SV 1337)
STA. 125+73.1, 34.8' LT.
EX. CB = 609.77
℄ 12" W=607.47

(SV 1524)
STA. 125+73.1, 35.1' RT.
EX. CB = 609.54
℄ 12" E&W=606.44

(SV 1316)
STA. 126+66.3, 45.6' LT.
EX. SAN. MH=611.06
℄ 12" E&W=601.36

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

(SV 1559)
STA. 128+27.3, 33.5' RT.
EX. CB = 610.42
℄ 12" E=606.52
℄ 12" W=606.22

TO BE REMOVED
(SV 1303)
STA. 128+25.7, 35.0' LT.
EX CB=610.38
℄ W= 607.08

ADJUST TO GRADE
(SV 1560)
STA. 128+24.8, 42.0' RT.
EX. MH = 610.90
℄ 12" E=606.10
℄ 12" W=606.10
℄ 24" S=604.60
℄ 30" N=604.60

EXISTING PROFILE ALONG ℄ CONST.	610.94	610.88	610.80	610.85	610.85	610.91	610.93	611.11	611.20	611.30	611.31	EXISTING PROFILE ALONG ℄ CONST.
615												615
610												610
605												605
600												600
595												595
590												590
585												585
580												580
	124+00		125+00		126+00		127+00		128+00		129+00	

PLAN AND PROFILE - US 250
STA. 124+00.00 TO STA. 129+00.00

ERI-250-0.00

146
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
299	Intersection Detail
444-448	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

MATCH LINE STA. 129+00 US 250

MATCH LINE STA. 134+00 US 250

DO NOT DISTURB

CONST. LIMITS

SAW CUT

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8

D1 D2 D3 D4 DR25 W1

S 37° 01' 48" E

℄ SURVEY & CONST. US 250 (MILAN RD.)

SANDUSKY MALL SIGN ELEC. METER U.G.

SANDUSKY MALL DRIVE SOUTH

95' LT. 82' LT.

EX. CB DAMAGED AND FULL OF DIRT. CONTRACTOR TO EXCAVATE EXISTING OUTLET AND REPLACE WITH CONTINGENCY QUANTITY CONDUIT AS DIRECTED BY THE ENGINEER.

BUCKEYE UNDERGROUND COAXIAL CABLE IN TRENCH, APPROX. LOCATION

DO NOT DISTURB ISLAND

ROCKS

EX. 24"

4" STEEL POST

GAS POST

FIVE GUYS SIGN

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT, POLE TO PED. APPROX. LOCATION

COAXIAL CABLE PRIVATE TRENCH

GOODYEAR U.G.

37 Com. Drive, reconstruct

CAR WASH U.G.

FOR SALE

EXIT

(SV 1624) STA. 131+75.3, 55.3' RT. EX. CB = 609.68 ℄ 12" E&W=607.08

(SV 1657) STA. 132+97.8, 52.3' RT. EX. CB = 610.95 ℄ 8" E=607.95

(SV 1130?) STA. 133+30.7, 65.0' RT. EX. SAN. MH = 611.93 ℄ 8" W=604.13 ℄ 10" E&S=604.13

STA. 130+11.6, 21.5' LT. EX. WATER MH=611.14

STA. 131+48.5, 22.5' LT. EX. WATER MH=611.54

(SV 1588) STA. 129+62.6, 55.0' RT. EX. CB = 609.28 ℄ 12" E&W=607.58
ADJUST TO GRADE
REPLACE FRAME AND GRATE WITH TRAFFIC RATED FRAME AND GRATE

STA. 131+75.8, 36.0' LT. PROP. CB-3, AS PER PLAN T/GRATE= 610.78 ℄ 12" W&S = 606.2± ℄ 6" E = 607.2±

ADJUST TO GRADE (SV 1626) STA. 131+75.3, 41.3' RT. EX. MH = 611.38 ℄ 12" W=606.68 ℄ 12" E=606.38 ℄ 18" S=606.38 ℄ 24" N=606.38

STA. 131+81.9, 36.0' LT. PROP. CB-3, AS PER PLAN T/GRATE= 610.94 ℄ 12" N = 606.30

TO BE REMOVED (SV 1261) STA. 131+75.8, 34.6' LT. EX. CB = 611.22 ℄ 6" E=607.22 ℄ 12" W=606.22

(SV 1627) STA. 131+77.2, 35.1' RT. EX. CB = 611.21 ℄ 12" E&W=606.51

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

2" SERVICE

6" LT., 2" RT.

6" ABND.

18" STM.

EXISTING PROFILE ALONG ℄ CONST.

611.31 611.38 611.56 611.92 611.69 611.93 612.12 612.13 612.26 612.51 613.10

620 615 610 605 600 595 590 585

129+00 130+00 131+00 132+00 133+00 134+00

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PLAN AND PROFILE - US 250
STA. 129+00.00 TO STA. 134+00.00
ERI-250-0.00

PLAN NORTH

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 134+00.00 TO STA. 138+00.00

ERI-250-0.00

148
677

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

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PLAN NORTH

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

CALCULATED | CHECKED

NOTE:

EXCAVATE AND SALVAGE EXISTING STONE, CONSTRUCT PROP. CB 2-3 AT STA. 138+73.4, 63.7' RT., CONTROLLER CABINET, AND BACKFILL WITH SALVAGE STONE. DO NOT DISTURB EXISTING LANDSCAPING. COST OF WORK DESCRIBED ABOVE AND 6" FINGER DRAINS, INCLUDED WITH CB 2-3, AS PER PLAN.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
300 & 301	Intersection Detail
249 & 250	Hull Road Plan & Profile
449-453	Proposed Signal Plan

PLAN AND PROFILE - US 250
STA. 138+00.00 TO STA. 143+00.00

ERI-250-0.00

149
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

14' TYPE 6 CURB
WELCOME CENTER & CRIDER JEWELERS
W1
+31, Com. Drive, Remove
+85, Com. Drive, Removed
SANDUSKY TATTOOS SIGN
3" SLOT IN CURB
WILD BIRDS UNLIMITED #4428
+90, Com. Drive Reconstruct
PLAZA SIGN
+53, Com. Drive Reconstruct
NO THRU TRUCK
DR27
DR29
CONST. LIMITS
4510 ADDRESS SIGN
ASPH.
CONC.
Ex SH
R/W
TMP
Ex U
MB1
W2
SAW CUT
DR28
6" ABND.
MATCH LINE STA. 143+00 US 250
MATCH LINE STA. 148+00 US 250
144
145
146
147
S 37° 01' 48" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
PB1
W3
PB2
PB3
16" WATER
ROCK (TYP.)
DO NOT DISTURB
SPLIT RAIL FENCE
+43, Com. Drive No Work
QUARRY ACCESS DRIVE
CONC. DRIVE
BOARD
U.G.
ADC#13583

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

	143+00	144+00	145+00	146+00	147+00	148+00
EXISTING PROFILE ALONG ℄ CONST.	614.83	614.82 / 614.90 / 614.94	614.94 / 614.91	614.94 / 614.95	614.72	614.33 / 614.36

620 615 610 605 600 595 590 585

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CHECKED

PLAN AND PROFILE - US 250
STA. 143+00.00 TO STA. 148+00.00

ERI-250-0.00

150
677

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PLAN NORTH

GREAT WOLF LODGE
ELEC. METER U.G.
ELEC. PANEL (4510 MILAN)
+12, Com. Drive
ASPH.
SEE SHEET 328 FOR DETAIL
+15, Com. Drive
WOLF LODGE DRIVE
bushes
ASPH.
BUCKEYE UNDERGROUND FIBER IN CONDUIT, APPROX. LOCATION
U.G.
BILLBOARD
CBS SIGN (030334) ADC# 20162
CONST. LIMITS
GRASS
60' LT.
CONC.
SAW CUT
DR30
6" ABND.
EX. 24"
PB3
MATCH LINE STA. 148+00 US 250
MATCH LINE STA. 153+00 US 250
149
150
151
152
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 37° 01' 48" W
EX. 18"
W1
PB1
PB2
TH 132
DO NOT DISTURB
CONST. LIMITS
DO NOT DISTURB
DO NOT DISTURB

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

LAMAR #850
LAMAR #851
BILLBOARD
U.G.
ADC# 13581
ADC# 13582

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

(SV 2366)
STA. 150+74.1, 40.5' LT.
EX. CB = 612.55
E 18" W=608.25
E 15" S=608.23

(SV 2005)
STA. 150+71.9, 35.4' RT.
EX. CB = 613.23
E 10" W=609.53
E 18" E=609.53

620 615 610 605 600 595 590 585

EXISTING PROFILE ALONG ℄ CONST.

614.36 614.30 614.07 613.91 613.90 613.87 613.91 613.83 613.70 613.75 613.78

148+00 149+00 150+00 151+00 152+00 153+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CHECKED

PLAN AND PROFILE - US 250
STA. 148+00.00 TO STA. 153+00.00

ERI-250-0.00

151
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
302	Intersection Detail
454-458	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

MEIJER NORTH DRIVE

MATCH LINE STA. 153+00 US 250

MATCH LINE STA. 158+00 US 250

DO NOT DISTURB

TRAFFIC SIGNAL BOXES

TRAFFIC SIGNAL POLE

ASPH.

GRASS

CONST. LIMITS

GAS POST

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9

D1 D2 D3 D4

W1

50' LT

53' LT

SAW CUT

6" SFM(QL-D)(AATUR)

2" W(QL-D)

T(FO)(QL-D)

6" (AATUR)

8" (AATUR)

16" (AATUR)

EX. 24"

EX. 12"

EX. 30"

16" WATER MAIN

6" ABAND.

6" ABANDONED

30" STM.

27" STM.

16" TH 40

TH 41

TH 42

TH 18

(SV 2632)
STA. 155+23.8, 59.4' RT.
EX. CB = 610.72
℄ 12" E&W=609.02

+74.50 Drive removed

N 37° 01' 48" W

℄ SURVEY & CONST.
US 250 (MILAN RD.)

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

PROP. PROFILE GRADE=
EXIST. PROFILE GRADE

EXISTING PROFILE ALONG ℄ CONST.

REPLACE I-2A-6 INLET FRAME & COVER
(SV 2429)
STA. 153+71.5, 34.5' LT.
EX. CB = 613.08
℄ 12" W=608.38
℄ 15" E=608.38

(SV 2658)
STA. 153+72.7, 35.5' RT.
EX. CB = 613.05
℄ 12" E=609.35

ADJUST TO GRADE
(SV 2430)
STA. 153+73.25, 40.6' LT.
EX. MH = 613.12
℄ 15" W=608.22
℄ 24" N=607.42
℄ 27" S=607.42

(SV 2439)
STA. 154+72.9, 34.4' LT.
EX. CB = 612.44
℄ 12" E&W=607.74

REPLACE CB-3 FRAME & GRATE
(SV 2638)
STA. 154+74.7, 35.4' RT.
EX. CB = 612.24
℄ 12" E&SW=608.84

ADJUST TO GRADE
(SV 2440)
STA. 154+74.0, 40.6' LT.
EX MH= 612.92
℄ 27" N= 607.4
℄ 30" S= 607.4

(SV 2499)
STA. 157+74.3, 40.2' LT.
EX. MH=613.24
℄ 30" N&S=607.24

EX 16" CROSSING
30" STM

613.78 613.63 613.44 613.53 613.53 613.47 613.93 614.37 614.35 614.35 614.33

153+00 154+00 155+00 156+00 157+00 158+00

620 615 610 605 600 595 590 585

PLAN AND PROFILE - US 250
STA. 153+00.00 TO STA. 158+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

115' LT
MEIJER CENTER DRIVE
PERKIN'S U.G.
90, Com. Drive,
DR31
D2
23'-12"B, @ 1.0%
IN TRENCH
BUCKEYE UNDERGROUND COAXIAL CABLE, APPROX. LOCATION
ASPH.
CONC.
IN CONDUIT
W1
DR32
DO NOT DISTURB
LANE SIGN
PB1
6" SFM(QL-D)(AATUR)
SAW CUT
(2) 10'-30"B
10'-12"B
D1
CONST. LIMITS
6" ABND.
MATCH LINE STA. 158+00 US 250
MATCH LINE STA. 163+00 US 250
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 37° 01' 48" W
S1
S2
S3
D3
8" SAN.
DO NOT DISTURB
CONST. LIMITS
DO NOT DISTURB
DO NOT DISTURB
GRASS
+72, Res. Drive, Remove
LAMAR SIGN (847 - 848) ADC# ----
BILLBOARD U.G.
WOODS

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

STA. 160+27.8, 58.2' LT
PROP CB-3A, AS PER PLAN
T/GRATE = 612.10
℄ 12" N = 608.60

STA. 160+43.4, 40.8' LT
PROP. MH-3, AS PER PLAN
T/RIM = 612.32
℄ 12" W = 607.8±
℄ 12" NE = 608.37
℄ 30" N+S = 606.3±

(SV 2990)
STA. 162+65.9, 68.4' RT.
EX. 30" ℄ E= 606.7

ADJUST TO GRADE
(SV 2583)
STA. 158+26.0, 40.9' RT.
EX. SAN. MH=613.82
℄ 12" E=605.82
℄ 12" N&S=605.32

ADJUST TO GRADE
(SV 2585)
STA. 158+08.0, 39.5' RT.
EX. SAN. MH=613.94
℄ 12" NE=610.74
℄ 12" N&S=605.54

TO BE REMOVED
(SV 2559)
STA. 160+42.2, 35.6' RT.
EX. CB = 612.79
℄ 12" E=609.09

TO BE REMOVED
(SV 2550)
STA. 160+43.9, 36.7' LT.
EX. MH = 612.26
℄ 12" E&W=608.26

TO BE REMOVED
(SV 2549)
STA. 160+43.4, 41.1' LT.
EX. CB = 611.80
℄ 12" W=607.80
℄ 30" N&S=606.30

(2) 10'-30"B
(SV 3021)
STA. 161+44.3, 35.3' RT.
EX. CB = 612.18
℄ 12" E=608.68(record)

(SV 2696)
STA. 161+44.0, 34.3' LT.
EX. MH = 612.26
℄ 12" E&W=608.16

(SV 2697)
STA. 161+44.5, 40.9' LT.
EX. CB = 611.70
℄ 12" W=607.60
℄ 30" N&S=606.30

ADJUST TO GRADE
(SV 2999)
STA. 162+02.6, 39.4' RT.
EX. SAN. MH=613.12
℄ 12" N&S=603.82

(SV 2709)
STA. 162+48.6, 36.1' LT.
EX. MH = 612.37
℄ 12" E&W=608.37

REPLACE I-2A-6 INLET FRAME & COVER
(SV 2996)
STA. 162+51.9, 35.6' RT.
EX. CB = 612.89
℄ 12" E=608.89

(SV 2990)
STA. 162+69.8, 76.1' LT
EX. 30" W= 605.7±

(SV 2708)
STA. 162+48.8, 41.0' LT.
EX. CB = 611.94
℄ 12" W=607.94
℄ 30" N&SE=605.74

EXISTING PROFILE ALONG ℄ CONST.

614.33 | 614.19 | 613.77 | 613.69 | 613.26 | 612.96 | 612.50 | 612.93 | 613.16 | 613.43 | 613.54

620 615 610 605 600 595 590 585

158+00 159+00 160+00 161+00 162+00 163+00

PLAN AND PROFILE - US 250
STA. 158+00.00 TO STA. 163+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
303	Intersection Detail
459-463	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

MATCH LINE STA. 163+00 US 250

MATCH LINE STA. 168+00 US 250

IN TRENCH

BUCKEYE UNDERGROUND COAXIAL CABLE, APPROX. LOCATION

+13, Com. Drive, Reconstruct

TO BE RELOCATED BY OWNER

82' LT

ENTERPRISE PLAZA U.G.

3" PLASTIC POST IN CONDUIT

SAW CUT

STA. 163+54, 67' LT. FIRE HYDRANT REMOVED AND RESET

GAS POST DO NOT DISTURB

ASPEN DENTAL SIGN

MEIJER DRIVE SOUTH

HOTY ENTERPRISES U.G.

STA. 167+05, 50' LT. FIRE HYDRANT REMOVED AND RESET

ROCK REMOVE

CONST. LIMITS

62' LT.

℄ SURVEY & CONST. US 250 (MILAN RD.)

N 37° 01' 48" W

DO NOT DISTURB BRUSH/WOODS

CONST. LIMITS DO NOT DISTURB

SIGN NO NAME

SIGNAL POLE U.G. (CAMERA)

+39, Com. Drive

+85, Com. Drive Removed

+59, Com. Drive Removed

DO NOT DISTURB

FOR SALE

8" WATER

GAS POST

SAW CUT

CONC.

ASPH.

6" (AATUR)

6" SEM(QL-D)(AATUR)

8" SAN.

12" SAN.

12" STM.

6" ABND.

BUCKEYE UNDERGROUND APPROX. LOCATION

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

GAS SERVICE

ADJUST TO GRADE (SV 2983) STA. 163+21.7, 41.5' RT. EX. MH = 613.61 ℄ 12" S=608.01 ℄ 12" NW=607.21

ADJUST TO GRADE (SV 2967) STA. 164+99.0, 41.1' RT. EX. MH = 614.15 ℄ 12" N&SW=608.75

ADJUST TO GRADE (SV 2940) STA. 166+03.9, 38.3' RT. EX. SAN. MH=614.12 ℄ 12" N&S=602.02

EXISTING PROFILE ALONG ℄ CONST.

613.54 613.76 613.88 614.01 614.18 614.23 614.29 614.17 613.96 613.76 613.08

163+00 164+00 165+00 166+00 167+00 168+00

620 615 610 605 600 595 590 585

PLAN AND PROFILE - US 250
STA. 163+00.00 TO STA. 168+00.00

ERI-250-0.00

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PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 168+00.00 TO STA. 173+00.00
ERI-250-0.00

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677

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MATCH LINE STA. 168+00 US 250

MATCH LINE STA. 173+00 US 250

STARBUCKS COFFEE & COLD STONE
ASPH.
(SV 3075)
EX. SAN. MH=608.87
℄ 8" SE&W=600.17
BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT APPROX. LOCATION
AMERICAN POWER SPORTS DO NOT DISTURB
TO BE RELOCATED BY OWNER
STA. 171+64, 50' LT.
FIRE HYDRANT REMOVED FOR SALVAGE, EXISTING 6" GATE VALVE ABANDONED "CLOSED" VALVE BOX AND OPERATING STEM REMOVED 6" M.J. PLUG EAST
DO NOT DISTURB
CONST. LIMITS
OUTBACK PLAZA
+02, Com. Drive, Reconstruct
106' LT
TO BE REMOVED
FOR SALE
5'-12" B
TH 143
TH 142
TH 130
16" DUCT
SAW CUT
6" ABND.
STA. 171+49, 55' LT.
6" FIRE HYDRANT,
6" GATE VALVE AND BOX
16"x6" TEE, 16" CUTTING SLEEVE
46'-12" B @ 1.0%
25'-12" B @ 1.0%
22'-12" B @ 1.0%
EX. 15" TO BE REMOVED
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 37° 01' 48" W
+42, Res. Drive, Remove
+03 Com. Drive, No Work
2' DIA. CONC. BASE TYP. 5-fake palm trees w/ conc. base
SHIRT SHACK
(SV 3461)
EX. CB = 606.94
℄ 12" E=603.34
COMM. SIGN W/ U.G.
67' RT.
+12, Com. Drive, Reconstruct
CONST. LIMITS

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

ADJUST TO GRADE
(SV 3532)
STA 170+04.5, 41.0' RT.
EX. SAN. MH=609.64
LID STUCK
PROP. PROFILE GRADE= EXIST. PROFILE GRADE
TO BE REMOVED
(SV 3153)
STA. 172+57.2, 40.1' LT.
EX. CB = 606.35
℄ 15" E=602.05
(SV 3438)
STA. 172+49.3, 34.9' RT.
EX. CB = 606.02
℄ 12" N,S,E=602.52
ADJUST TO GRADE
(SV 3156)
STA. 172+99.4, 52.2' LT.
EX MH= 606.9
℄ 18" N&SE=596.70
℄ 15" W=600.4 (PLUG)
TO BE REMOVED
(SV 3154)
STA. 172+98.2, 40.2' LT.
EX. CB = 606.28
℄ 15"E=601.78
REPLACE I-2A-6 INLET FRAME & COVER
(SV 3559)
STA. 169+11.4, 34.8' RT.
EX. CB = 611.15
℄ 12" E=607.45
REPLACE I-2A-6 INLET FRAME & COVER
(SV 3054)
STA. 169+22.5, 34.9' LT.
EX. CB = 610.85
℄ 12" E&W=606.65
8" WAT.
16" CASING
12" SAN.
6" ABND.
12" STM. RT.
12" STM. LT.
46'-12" B @1.0%
22'-12" B @1.0%
(SV 3448)
STA. 171+72.8, 35.2' RT.
EX. CI/MH=606.96
℄ 12" S,SW&NW=603.36
TO BE REMOVED
(SV 3118)
STA. 171+73.3, 44.2' LT.
EX. CB=606.44
℄ 12" N&S=601.94
TO BE REMOVED
(SV 3126)
STA. 172+09.1, 41.4' LT.
EX. CB=606.05
℄ 12" N&S=601.45
ADJUST TO GRADE
(SV 3127)
STA. 172+33.6, 42.2' LT.
EX. MH=606.63
℄ 12" N=601.43(TBR)
℄ 15" W=601.43
℄ 18" S=597.83
℄ 12" N=601.43
ADJUST TO GRADE
(SV 3150)
STA. 172+57.1, 51.9' LT.
EX. MH = 606.87
℄ 15" W=602.07 (TBR, PLUG)
℄ 18" S&NW=598.07
℄ 12" SW=602.07
(SV 3410)
STA. 172+92.6, 35.1' RT.
EX. CB = 606.01
℄ 12" N=602.71
1 STA. 171+63.7, 45' LT. PROP CB-3, AS PER PLAN T/GRATE = 606.62 ℄ 12" S = 602.14
2 STA. 172+09.2, 40.0' LT PROP CB-3, AS PER PLAN T/GRATE = 606.18 ℄ 12" N+S = 601.68
3 STA. 172+77.6', 43.3' LT PROP CB-3, AS PER PLAN T/GRATE = 606.32 ℄ 12" NE = 602.29

EXISTING PROFILE ALONG ℄ CONST.
613.08 612.78 611.99 611.13 609.76 608.87 608.30 607.61 607.25 607.45 607.65
615 610 605 600 595 590 585 580
168+00 169+00 170+00 171+00 172+00 173+00

PLAN AND PROFILE - US 250
STA. 173+00.00 TO STA. 178+00.00

ERI-250-0.00

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

MATCH LINE STA. 173+00 US 250

MATCH LINE STA. 178+00 US 250

STORAGE ZONE U.G.
DO NOT DISTURB
BRUSH
DR35
+21, Com. Drive, Reconstruct
104' LT.
SAVE
12" DEAD
ASPH.
100' LT.
DR37
+63, Com. Drive, Reconstruct
PORTABLE SIGN
PATRON PARKING ONLY
GRASS
CHINA BUFFET
DO NOT DISTURB
GRASS
MOVABLE SIGN
CONST. LIMITS
Ex SH
R/W
TMP
EX. 18"
EX. 21"
6"
DO NOT DISTURB
10'-15"B @ 1.0%
D1
D2
SAW CUT
+08.70
19+
+23
11+
FAZOLI'S U.G.
DO NOT DISTURB
6" ABND.
W
PL
174
175
176
177
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 37° 01' 48" W
EX. 60"
EX. 12"
S1
MB1
11+
+32
+45
DO NOT DISTURB
8" SAN.
10" SAN.
SAN
CONC
SAW CUT
PB1
GRASS
ASPH.
FOR SALE SIGN
CONST. LIMITS
CULTIVATED
HEMMING DITCH
DITCH
18"
+21, Res. Drive, Reconstruct
BUSHES
BRUSH

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

615
610
605
600
595
590
585
580

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

ADJUST TO GRADE (SV 3403)
STA.173+56.44' 40.0' RT.
EX. SAN. MH=607.51
℄ 12" N&S=595.51

STA. 173+63.0, 40.5' LT
PROP CB-3A, AS PER PLAN
T/GRATE = 607.22
℄ 15' S = 603.53

6" ABND.
10'-15" B
18" STM.
12" SAN.
21" STM.
FO†
16"

STA. 173+13.3, 63.6' LT
EX. 18" SW= 597.9± (Record)

SV 3157
STA.173+07.3, 62.5' LT
EX. 60" W= 597.8

SV 3419
STA. 173+01.9, 65.6' RT.
EX 60" ℄ E= 598.9

TO BE REMOVED (SV 3176)
STA. 173+66.4, 41.2' LT.
EX. CB = 607.01
℄ 15"SE=599.51

ADJUST TO GRADE (ROTATE TOP SECTION OF STRUCTURE TO KEEP CASTING OUT OF CURB & GUTTER.)
(SV 3177)
STA. 173+73.3, 40.6' LT.
EX. MH=607.33
℄ 21" S 600.03
℄ 18" NE=600.03
℄ 15" N=603.43

(SV 3238)
STA. 176+74.2, 39.8' LT.
EX. CI=611.60
℄ 18"N&S=603.80

(SV 3356)
STA. 176+74.5, 59.3' RT.
EX. CB=610.45
℄ 12"E=605.85
℄ 4" N&S=605.85

(SV 3343)
STA. 177+60.0, 39.1' RT.
EX. SAN. MH=612.08
℄ 12" N&S=594.68

EXISTING PROFILE ALONG ℄ CONST.

607.65 607.98 608.66 609.45 610.67 611.40 611.87 612.53 612.70 612.72 612.65

EXISTING PROFILE ALONG ℄ CONST.

173+00 174+00 175+00 176+00 177+00 178+00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
304 & 305	Intersection Detail
254 & 255	Crossings Rd Plan & Profile
464-468	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

MATCH LINE STA. 178+00 US 250

MATCH LINE STA. 183+00 US 250

N. PARK PL.

CROSSINGS RD.

℄ SURVEY & CONST. US 250 (MILAN RD.)

N 37° 01' 48" W

CONST. LIMITS

SAW CUT

CULTIVATED

TO BE RELOCATED BY OWNER

DO NOT DISTURB

DO NOT DISTURB LIGHT POLE

PARK PLACE SIGN DO NOT DISTURB

STA. 181+51.79 US 250= STA. 50+00.00 CROSSINGS RD.

GAS VALVE ADJUST TO GRADE BY OWNER

OLIVE GARDEN DO NOT DISTURB

DO NOT DISTURB PARKING LOT

CROSSINGS OF SANDUSKY SIGN (DO NOT DISTURB)

SAVE

TO BE REMOVED

BUSHES TO BE REMOVED

7'-12"B @1.0%

36'-12"B @0.20%

38'-12"B, 706.02 @ 0.20%

65'-12"B @ 0.20%

161'-12"B @ 0.40%

101'-18"B

DR37 DR38 DR39 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 W1 W2 W3 W4 PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 MB1 MB2

PROP. PROFILE GRADE
EXIST. PROFILE GRADE

STA. 179+84.7, 57.3' RT.
EX. CB = 613.35
℄ 12" NW=607.45
℄ 18" S&E=606.75

(SV 3331)
REPLACE CB-3A FRAME & GRADE
(SV 3304)
STA. 179+84.0, 39.8' LT.
EX. CI=611.08
℄ 21" N=605.88
℄ 18" S=605.88
℄ 18" W=607.88

STA. 180+91.8, 53.7' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 610.45
℄ 12" W = 607.47
℄ 4" UD N+SW = 607.47

STA. 180+81.4, 40.1' LT
PROP CB-3, AS PER PLAN
T/GRATE = 610.89
℄ 12" S = 606.67
℄ 18" N = 606.6±

(SV 3318)
TO BE REMOVED
STA. 180+88.0, 39.7' LT.
EX. CB = 610.59
℄ 18" N=606.59
℄ 12" W=606.59

(SV 3754)
TO BE REMOVED
STA. 180+92.9, 41.7' RT.
EX. CB = 610.47
℄ 12" E=607.97
℄ 4" W=607.97

(SV 3762)
TO BE REMOVED
STA. 180+96.6, 58.9' RT.
EX. CB=613.84
℄ 18" N=607.34
℄ 12"W=607.34

STA. 180+96.6, 58.9' RT
PROP MH-3, AS PER PLAN
T/RIM = 611.19
℄ 12" NE = 607.40
℄ 12" SW = 607.34
℄ 18" N = 607.34

STA. 181+19.5, 86.2' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 611.16
℄ 12" S+NE = 607.41
℄ 4" UD W = 608.18

STA. 181+83.9, 75.7' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 611.15
℄ 12" SE = 607.54
℄ 12" N = 607.54
℄ 4" UD W = 608.17

(SV 3748)
TO BE REMOVED
STA. 181+09.6, 49.2' RT.
EX. CB = 610.58
℄ 12" SW&NW=607.28
℄ 4" N=607.48

(SV 3727)
TO BE REMOVED
STA. 181+88.2, 47.1' RT.
EX. CB = 611.05
℄ 12" NE&SW=607.65
℄ 4" S=608.35

STA. 181+61.0, 40.6' RT.
EX SAN MH= 611.4
℄ 12" N= 593.5
℄ 15" S= 593.5

STA. 182+06.5, 45.1' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 610.85
℄ 12" NW = 607.62
℄ 4" UD S+NW = 607.87

STA. 182+42.5, 42.7' LT
PROP CB-3A, AS PER PLAN
T/GRATE = 611.42
℄ 12" N = 607.31
℄ 4" UD S = 607.92

GAS SERVICE
6" GAS CROSSING

EXISTING PROFILE ALONG ℄ CONST.: 612.65 | 612.62 | 612.61 | 612.45 | 612.22 | 611.98 | 611.90 | 612.00 | 612.10 | 612.23 | 612.31

179+00 180+00 181+00 182+00 183+00

PLAN AND PROFILE - US 250
STA. 178+00.00 TO STA. 183+00.00

ERI-250-0.00

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

MATCH LINE STA. 183+00 US 250

MATCH LINE STA. 188+00 US 250

DENTAL OFFICE #5218

KENNETH MCGILL DDS

+64 Com. Drive

+82, Res. Drive, Reconstr

HARLEY DAVIDSON DRIVE

HARLEY DAVIDSON SIGN

85' LT.

DR40 DR41 DR42

MB1 MB2

PB1 PB2 PB3 PB4 PB5 PB6

W1 D1

CONST. LIMITS

DO NOT DISTURB

DO NOT DISTURB LIGHT POLE

SAW CUT

6" ABND.

6"(AATUR)

6" SFM(QL-D)(AATUR)

N 37° 01' 48" W

℄ SURVEY & CONST. US 250 (MILAN RD.)

LONGHORN STEAK HOUSE SIGN

MULCH BED

STONE DETENTION POND

RYAN'S SIGN

20' SANITARY EASEMENT D.V. 507, PG. 510

DO NOT DISTURB PARKING LOT

ASPH.

CONC.

GRASS

bushes

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

STA. 185+74.5, 43.0' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 609.87
℄ 12" E+W = 606.6±
℄ 18" S = 606.6±

(SV 3874)
STA. 185+74.3, 39.8' LT.
EX. CB = 609.77
℄ 12" W=607.47

TO BE REMOVED
(SV 3624)
STA. 185+74.5, 41.8' RT.
EX. CB = 609.66
℄ 4" W=607.66
℄ 12" E=606.56
℄ 18" S=606.56
℄ 12" W=606.56

(SV 3639)
STA. 185+00.4, 40.3' RT.
EX. SAN. MH = 610.38
℄ 15" N&S=592.48

(SV 3626)
STA. 185+52.4, 29.9' RT.
EX. SAN. MH= 610.4
℄ 15" N&S= 592.3±

(SV 3604)
STA. 186+28.5, 29.4' RT.
EX. SAN. MH= 610.26
℄ 15" N&S= 592.10±

EXISTING PROFILE ALONG ℄ CONST.

612.31 612.23 612.01 611.52 611.25 611.16 611.19 611.24 611.24 611.23 611.02

183+00 184+00 185+00 186+00 187+00 188+00

620 615 610 605 600 595 590 585

PLAN AND PROFILE - US 250
STA. 183+00.00 TO STA. 188+00.00

ERI-250-0.00

158
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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
306	Intersection Detail
259	Fun Drive Plan & Profile
469-473	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

CALCULATED

CHECKED

MATCH LINE STA. 188+00 US 250

MATCH LINE STA. 193+00 US 250

STA. 188+88.44 US 250= STA. 50+00.00 FUN DR.

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT APPROX. LOCATION

CONST. LIMITS

SAVE

SUPER 8 SIGN DO NOT DISTURB

#5410 SUPER 8 MOTEL

+18, Com. Drive, Remove

+71, Comm. Drive, Reconstruct

+03, Comm. Drive, Remove

+82, Co.

61.5' LT.

74' LT.

75' LT.

30'-12"B @ 0.50%

PI Sta. 190+10.84

℄ SURVEY & CONST. US 250 (MILAN RD.)

N 37° 01' 48" W

S 37° 08' 11" E

SAW CUT

6" ABND.

24" WATER NASA

48" CASING

15" SAN.

6" PVC

EX. 24" W/ CAP

EX. 18"

EX. 12"

EX. 36"

TO BE RELOCATED BY OWNER

CROSSINGS OF SANDUSKY SIGN (DO NOT DISTURB)

DO NOT DISTURB SIGN OR LANDSCAPING

TACO BELL & LONG JOHN SILVERS

℄ FUN DR.

FUN DRIVE

TOWER

BRUSH

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

EX. MH STA. 189+13.7, 40.9' RT. RIM = 609.5± ℄ 12" E= 604.8± ℄ 18" N= 604.8± ℄ 24" S= 604.8±

STA. 189+15.1, 40.0' LT PROP. MH-3, AS PER PLAN T/RIM = 609.37 ℄ 12" W&S = 606.33

STA. 189+45.0, 40.0' LT PROP. CB-3, AS PER PLAN T/GRATE = 609.61 ℄ 12" N = 606.48

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

2" GAS SERVICE CROSSING

4" GAS CROSSING

TO BE REMOVED (SV 3951) STA. 189+15.1, 40.0' LT. EX. CB = 609.33 ℄ 12"W=606.33

ADJUST TO GRADE (SV 4152) STA. 189+21.9, 61.9' RT. EX. MH = 609.83 ℄ 24" S&W=605.93

(SV 4131) STA. 190+34.7, 61.9' RT EX. MH=609.36 ℄ 15" N&E=605.36

ADJUST TO GRADE (SV 4404) STA. 190+35.1, 39.4' RT. EX. MH = 610.38 ℄ 21" S= 604.68 ℄ 15" W=604.68 ℄ 18" N= 604.68

ADJUST TO GRADE (SV 4114) STA. 190+55.4, 40.5'RT. EX. MH = 610.79 ℄ 21" N 604.79 ℄ 36" S=604.79 ℄ 24" W=604.79 ℄ 8" NE=605.09

(SV 3576) STA. 188+48.5, 28.9' RT. EX. SAN. MH 609.73 ℄ N&S= 591.4±

(SV 4101) STA. 191+51.6, 27.7' RT. EX. SAN. MH= 610.27 ℄ 15" N&S= 590.6±

EXISTING PROFILE ALONG ℄ CONST.	611.02	610.61	610.56	610.55	610.72	610.89	611.05	610.90	610.79	610.48	610.03	EXISTING PROFILE ALONG ℄ CONST.
188+00			189+00			190+00			191+00		192+00	193+00

615 610 605 600 595 590 585 580

PLAN AND PROFILE - US 250
STA. 188+00.00 TO STA. 193+00.00

ERI-250-0.00

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PLAN NORTH

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
307 & 308	Intersection Detail
261 & 262	Bay Winds Dr. / S. Park Pl. P&P
474-478	Proposed Signal Plan

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole
- Item 660, Sodding

MATCH LINE STA. 193+00 US 250

MATCH LINE STA. 197+00 US 250

STA. 195+57.13 US 250= STA. 49+88.11 BAY WINDS / S. PARK PL.

BAY WINDS DR. / S. PARK PL. CURVE DATA
P.I. Sta. 50+02.87
Δ = 32° 54' 58" (RT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 295.42'
L = 574.49'
E = 42.72'
C = 566.63'
C.B. = N 36° 12' 28" E

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EXISTING PROFILE ALONG ℄ CONST.

610.03 609.54 609.22 608.67 608.21 607.72 607.48 607.11 606.93

193+00 194+00 195+00 196+00 197+00

615 610 605 600 595 590 585 580

PLAN AND PROFILE - US 250
STA. 193+00.00 TO STA. 197+00.00

ERI-250-0.00

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PLAN NORTH

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
309	Intersection Detail
292	Ramada Plan Sheet

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 197+00.00 TO STA. 201+00.00

ERI-250-0.00

161
677

LEGEND
- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

PROVIDE 5' WIDE 2% MAX. TRANSVERSE & LONGITUDINAL TRANSITION @ 5% MAX.
FIRST FEDERAL BANK SIGN
RAMADA ST.
+07, Com. Drive PC Sta. 1+02.01
PC Sta. 0+75.04
+67, Com. Dr Reconstruct
SONIC
DO NOT DISTURB
ASPH.
SONIC SIGN DO NOT DISTURB
GRASS
EX. 36"
CONST. LIMITS
CONC.
TO BE RELOCATED BY OWNER
SAW CUT
6" ABND
℄ CONST. RAMADA ST. N 52° 51' 42" E
MATCH LINE STA. 197+00 US 250
MATCH LINE STA. 201+00 US 250
S 37° 08' 11" E
STA. 198+13.28 US 250= STA. 0+00.00 RAMADA ST.
DELINEATORS REMOVED WITH 254
℄ SURVEY & CONST. US 250 (MILAN RD.)
ADJUST TO GRADE
18"-12"B @2.0%
TO BE REMOVED (SV4490) CB = 606.11 6" (N&S)=604.71 S. PARALLEL CURB
10'-12"B
10'-36"B
10'-18"B
TO BE REMOVED
10'-6"B
CONC.
ASPH.
TO BE REMOVED (SV4493) EX. CB =605.89 6" NE= 604.82 NE TO HY-MILER BLDG. #5511 SHELL GAS PUMPS
EXIST. AIR COMP.
SHELL SIGN DO NOT DISTURB
DO NOT DISTURB LANDSCAPING
STATUE
AT&T CABINET
mound landscape area
FAKE PALM TREES (TYP.)
PIPES
mound stone
U.G.E.
CONST. LIMITS
SAW CUT
PB1 PB2 PB3 PB4 PB5
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10
DR49 DR50 DR51 DR51A
W1

ADJUST TO GRADE (SV 4271) STA. 197+30.3, 44.2' LT. EX. MH = 606.84 ℄ 36" N&W=598.04 ℄ 36" S=601.24 Overflow ℄ 18" E=598.04 ℄ 15" S=600.04 ℄ 24" W=598.04

TO BE REMOVED (SV 4502) STA. 197+53.0, 48.2' RT. EX. CB = 605.48 ℄ 6" W=604.18 ℄ 18" N&S=599.28 ℄ 36" E=599.28

15" SAN.

STA. 197+62.0, 28.4' RT. EX SAN MH= 606.17 ℄ 15" N= 588.62± ℄ 18" E= 588.62±

(SV 4285) STA. 197+68.1, 68.8' LT. EX. SAN. MH=606.43 ℄ 18" E&W=588.23

ADJUST TO GRADE (SV 4553) STA. 198+74.8, 40.1' LT. EX. MH = 606.37 ℄ 36" N&S=600.87

TO BE REMOVED (SV 4528) STA. 198+26.6, 51.0' RT. EX. CB = 606.26 ℄ 18" N=602.8± ℄ 12" W=602.7± ℄ 1" NW= 604.66

TO BE REMOVED (SV 4514) STA. 198+25.6, 67.0' RT. EX. CB = 605.79 ℄ 12" E=603.69

TO BE REMOVED (SV 4857) STA. 199+81.6, 66.4' LT. EX/ CB = 605.24 ℄ 12" W=603.14

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

(SV 4838) STA. 200+13.4, 62.1' LT. EX CB = 604.88 WITH INLET ℄ 36" N&S=600.28

1	STA. 197+43.6, 44.0' RT PROP CB-3, AS PER PLAN T/GRATE = 605.58 ℄ 12" SW = 601.89
2	STA. 197+53.0, 48.2' RT PROP MH-3 W/ 72" BASE I.D., AS PER PLAN T/RIM = 606.20 ℄ 6" W = 604.2± ℄ 12" NE = 601.79 ℄ 18" N+S = 599.3± ℄ 36" E = 599.3±
3	STA. 197+24.8, 67.0' RT PROP CB-3A, AS PER PLAN T/GRATE = 606.00 ℄ 6" N+S = 604.7±
4	STA. 197+92.5, 69.2' RT PROP CB-3A, AS PER PLAN T/GRATE = 605.88 ℄ 6" NE = 604.8±
5	STA. 198+26.6, 51.3' RT PROP MH-3, AS PER PLAN T/RIM = 605.91 ℄ 12" SW = 602.81 ℄ 18" N = 602.81±
8	STA. 198+37.0, 65.6' RT PROP CB-3A, AS PER PLAN T/GRATE = 605.92 ℄ 12" NE = 603.17
9	STA. 199+80.5, 66.4' LT PROP CB-3A, AS PER PLAN T/GRATE = 605.20 ℄ 12" W = 603.20

EXISTING PROFILE ALONG ℄ CONST
606.93 606.80 606.95 606.91 606.79 606.65 606.57 606.78 606.63
197+00 198+00 199+00 200+00 201+00
615 610 605 600 595 590 585 580

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PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 201+00.00 TO STA. 206+00.00

ERI-250-0.00

AMERICA BEST VALUE INN SIGN
ASPH.
STA. 201+98.78, 77.97' LT.
OUTLET ℄=598.02
RAMP "B"
PC STA. 1+00.00
15'-76"x47"A, 706.04
D2
PB3
ADJUST TO GRADE BY OWNER
Ex LA
138'-36"C
TO BE REMOVED
CONST. LIMITS
ADJUST WATER MH TO GRADE
TH 79
TH 80
12'-15"B
D1
PB2
D4
PB5
PB6
TH 82
PB8
SAW CUT
℄ RAMP "B"
N 72° 04' 42" E
STA. 202+48.31 US 250=
STA. 14+79.78 RAMP "A"=
STA. 0+00.00 RAMP "B"
MATCH LINE STA. 201+00 US 250
MATCH LINE STA. 206+00 US 250
202
203
204
205
S 37° 08' 11" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
REPLACE FIRST 6' SECTION OF EX. CULVERT BOTH ENDS
76"x48" RCP
SAW CUT
PB1
PB4
TH 78
TH 81
CONST. LIMITS
MAUI SANDS RESORT SIGN
2" SERVICE
36'-76"x48"A, 706.04
D3
℄ RAMP "A"
RAMP "A"
Ex. 24" RCP
81'-18"B @ 0.30%
PB7
+68, New Drive, Landscape Access
DR52
D7
D6
84'-24" A
D5
STA. 201+97.48, 92.67' RT.
INLET ℄=599.19

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
310 & 311	Intersection Detail
268	Ramp "B" Plan and Profile
293	Ramp "A" Plan Detail Sheet
317 & 318	Culvert Detail Sheets
479-483	Proposed Signal Plan

LEGEND
Proposed Walk
Full Depth Pavement Replacement (Asphalt)
TH # Quality Level A Test Hole

615
610
605
600
595
590
585
580

STA. 201+83.1, 47.1' LT
PROP CB-3, AS PER PLAN
T/GRATE = 605.09
℄ 15" S = 601.56
USE EXIST. HOLE IN 48"X76" PIPE FOR PROP. 15" CONDUIT
(SV 4815)
STA. 201+56.0, 67.5' LT.
EX. CB = 606.23
WITH INLET
℄ 36" N&S=599.43
℄ 36" S=599.4±
(SV 4797)
STA. 201+89.51, 73.0' LT.
EX. 36" CONC ℄ S= 599.19
PROP. PROFILE GRADE= EXIST. PROFILE GRADE
6" 36" STM. 36" STM. 15" 15" STM.
6" ABND.
36"B
81'-18"B @ 0.30%
6" ABND.
16"
(SV 4796)
STA. 201+98.77, 70.0' LT.
EX 48" x 76" ℄ W= 597.9
STA. 203+01.5, 80.6' RT
PROP HW-2.1/2.2
℄ 18" S = 599.85
STA. 203+79.7, 61.3' RT
PROP HW-2.1/2.2
℄ 18" N = 600.10
(SV 4828)
STA. 201+25.6, 62.7' LT.
EX. CB = 605.15
WITH INLET
℄ 36" N&S=599.85
STA. 201+92.8, 80.6' LT
PROP HW-2.1/2.2
℄ 36" N=598.07
TO BE REMOVED
(SV 4852)
STA. 201+82.1, 46.1' LT.
EX. CB = 605.36
℄ 15" S=601.56

EXISTING PROFILE ALONG ℄ CONST.
606.63 606.58 606.43 606.09 606.03 605.94 605.93 605.87 605.89 605.87 605.76
EXISTING PROFILE ALONG ℄ CONST.

201+00 202+00 203+00 204+00 205+00 206+00

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PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED

CHECKED

PLAN AND PROFILE - US 250
STA. 206+00.00 TO STA. 211+00.00

ERI-250-0.00

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LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

MATCH LINE STA. 206+00 US 250

MATCH LINE STA. 211+00 US 250

S 37° 08' 11" E

STA. 207+49.68 US 250=
STA. 860+35.68 RTE 2

℄ SURVEY & CONST.
US 250 (MILAN RD.)

PROPOSED TYPE 7 CURB

CONST. LIMITS

RTE 2 WESTBOUND

RTE 2 EASTBOUND

℄ RTE. 2

PB1

PB2

RISER

BRUSH

UNK.

EOI

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PROP. PROFILE GRADE=
EXIST. PROFILE GRADE

6" ABND.

EXISTING PROFILE ALONG ℄ CONST.	605.76	605.61	605.57	605.48	605.62	605.91	606.18	606.22	606.44	606.50	606.63	EXISTING PROFILE ALONG ℄ CONST.

615 610 605 600 595 590 585 580

206+00 207+00 208+00 209+00 210+00 211+00

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
312 & 313	Intersection Detail
294	Ramp "C" Plan Detail Sheet
484-488	Proposed Signal Plan

PLAN NORTH

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

CALCULATED / CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole
- Item 660, Sodding

MATCH LINE STA. 211+00 US 250

MATCH LINE STA. 216+00 US 250

RAMP "C"

℄ RAMP "C"

RAMP "D"

℄ RAMP "D"

RAMP "E"

CONST. LIMITS

EX. 18"

16"

6"WTR(EXTR) EOI

6"WTR(EXTR)

5 3/16"

PB1

DR53

DR54

PB2

PB3

PB4

PB5

PB6

PB7

W1

W2

D1

D2

D3

D4

D5

R3

+08, Landscape Access Drive

+14, Com. Drive, Remove

+18 Com. Drive, No Work

+45, Com. Drive, Remove

ROCK, CHANNEL PROTECTION TYPE C, 2'-0" THICK W/ FILTER

55'-30"B @ 0.50%

16'-12"B @ 1.0%

6'-24"B

6'-12"B

DO NOT DISTURB SIGN AND LANDSCAPING

KEROSENE PUMP

DO NOT DISTURB

DO NOT DISTURB

mulch

bushes

SPEEEDWAY SIGN U.G.

GRASS

ASPH.

CONC.

GRASS

Ex SH

SAW CUT

HYDRANT TO BE REMOVED & RESET

3' DROP CURB

5' WIDE ITEM 660 SODDING

℄ SURVEY & CONST. US 250 (MILAN RD.)

N 37° 8' 11" W

STA. 212+98.65, US 250 (MILAN RD.)=
STA. 0+00.00, RAMP "C"=
STA. 15+88.98, RAMP "D"

55.5' RT.

+19.8
41.5' RT.

+10.49
63.7' RT.

STA. 212+62.32, 89.24' RT.
℄ 15" S=602.36

STA. 213+41.72, 89.82' RT.
℄ 15" N=601.62

WOOD POST OLD MB

STL. POST ELEC. BOX

DO NOT DISTURB

FLAG HOLDERS TO BE REMOVED, COST INCLUDED WITH ITEM 203.

Ex U

FIREWORKS SUPER STORE SIGN

STA. 213+67.0, 40.4' LT
PROP I-2A-6, AS PER PLAN
T/CURB = 606.83
℄ 12" N = 602.83

STA. 213+49.4, 39.0' LT
PROP MH-3, AS PER PLAN
T/RIM = 606.55
℄ 12" S = 602.65
℄ 24" W = 600.97
℄ 30" E= 600.97

STA. 213+68.4, 38.9' RT
PROP I-2A-8, AS PER PLAN
T/CURB = 606.89
℄ 12" W = 603.4±

PROP. PROFILE GRADE=
EXIST. PROFILE GRADE

3" GAS CROSSING

GAS SERVICE LINE

6" ABND.

12"B

TO BE REMOVED
(SW-4921)
STA. 213+66.8, 35.9' RT.
EX. CB = 606.64
℄ 12" W=603.44

STA. 213+29.1, 90.4' LT
PROP HW-2.1/2.2
℄ 30" W = 600.70

TO BE REMOVED
(SV90374)
STA. 213+39.8, 38.0' LT
EX CI = 606.60
℄ 12" E=602.60

(SV90311)
STA. 213+40.60, 59.7' LT
℄ 12" W=602.06

(SV90318)
STA. 213+49.35, 57.73' LT.
℄ 24" W=600.88

(SV90320)
STA. 213+48.25, 78.77' RT.
℄ 24" E=601.54

EXISTING PROFILE ALONG ℄ CONST.	606.63	606.64	606.82	606.97	607.15	607.59	607.41	607.70	607.86	608.03	608.28	EXISTING PROFILE ALONG ℄ CONST.
211+00			212+00			213+00			214+00		215+00	216+00

615 610 605 600 595 590 585 580

PLAN AND PROFILE - US 250
STA. 211+00.00 TO STA. 216+00.00

ERI-250-0.00

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CROSS REFERENCE	
81-82	Super Elevation Table
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

DO NOT DISTURB SIGN & LIGHTS
TRAVEL LODGE SIGN
ENCROACHING CURB AND ASPHALT PAVEMENT TO BE REMOVED
+41, Com. Drive, Reconstruct
SAW CUT
CONST. LIMITS
ASPH.
+79, Com. Drive, Remove
(SV 5457) STA. 218+02.8, 43.5' LT. EX. SAN. MH = 607.26 ℄ 8" N&SE=593.36
SAW CUT
GRASS
+39, Com. Drive, Reconstruct
bear statue
dino statue
hippo statue
+42, Com. Drive, Reconstruct
BUDGET INN SIGN
OVHD. PERKIN CEMETERY SIGN
DO NOT DISTURB
GATE
DO NOT DISTURB
W2
DO NOT DISTURB
CONC.
GRASS
6" ABND.
SAW CUT
DO NOT DISTURB
DO NOT DISTURB EXIST. GUARDRAIL
STA. 219+80, 46'LT. 6" FIRE HYDRANT AND 6' GATE VALVE RESET 16"x6" TEE AND 16" CUTTING-IN SLEEVE
DR56
DR58
W1
DR59
MATCH LINE STA. 216+00 US 250
MATCH LINE STA. 221+00 US 250
N 37° 8' 11" W
℄ SURVEY & CONST. US 250 (MILAN RD.)
DR55
DR57
5' WIDE ITEM 660 SODDING
DO NOT DISTURB
SAW CUT
13.5'x8' BOX CULVERT
D1
6.5' WALK
DO NOT DISTURB
DR60
FLAG HOLDER & POST TO BE REMOVED, COST INCLUDED WITH ITEM 203.
+40, Com. Drive, Reconstruct
+09, Com. Drive, Remove
BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT APPROX. LOCATION
COMFORT INN SIGN
+90, Com. Drive, Reconstruct
DO NOT DISTURB
CONST. LIMITS
PLUM BROOK
WALL
+77, Com. Drive, Reconstruct

LEGEND

- Item 660, Sodding
- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

PROP. PROFILE GRADE= EXIST. PROFILE GRADE
PROP. PROFILE GRADE (SEE SHEETS 81 & 82)
STA. 219+08.5 13.5'x8' BOX CULVERT TOP= 606.00
6" ABND.
16" STM.
12" STM.
(SV 5224) STA. 218+93.9, 35.1' LT. EX. CB = 606.50 ℄ 12" SE=601.80
(SV 5109) STA. 218+94.7, 34.8' RT. EX. CB = 606.75 ℄ 12" S=599.15
REPLACE I-2A-6 INLET FRAME & COVER, (SV 5110) STA. 219+26.7, 34.9' RT. EX. CB = 607.42 ℄ 18" N&S=597.52

EXISTING PROFILE ALONG ℄ CONST.	608.28	608.36	608.43	608.43	608.27	608.17	607.98	608.00	608.27	608.87	609.49	PROP. PROFILE GRADE

615 610 605 600 595 590 585 580

216+00 217+00 218+00 219+00 220+00 221+00

PLAN AND PROFILE - US 250
STA. 216+00.00 TO STA. 221+00.00
ERI-250-0.00

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CROSS REFERENCE	
81-82	Super Elevation Table
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 221+00.00 TO STA. 226+00.00

ERI-250-0.00

166
677

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LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole
- Item 660, Sodding

DO NOT DISTURB

+35, Com. Drive, Remove

DR61

ASPH.

CONC.

ENT.

SAVE

+93, Com. Drive, Remove

DR62

CONST. LIMITS

BEATTY LANE

DR64

3' DROP CURB CENTERED ON STA. 225+32

+13, Comm. Drive, Remove

16"

Ex U

Ex SH

TMP

8" SAN.

2" G(QL-D)

W1 W2 W3 W4 S1

86+

99+

SAW CUT

6" ABND.

3' DROP CURB CENTERED ON STA. 225+08

5' WIDE ITEM 660 SODDING

PB4

MATCH LINE STA. 221+00 US 250

MATCH LINE STA. 226+00 US 250

222 223 224 225

N 37° 8' 11" W

PC Sta. 222+87.33

℄ SURVEY & CONST. US 250 (MILAN RD.)

PB1 MB1 D1 D3 D4 D2 W5 W6 MB2 PB3 W7

OVERHEAD SIGNS

EX. 12"

EX. 18"

TH 20

TH 86

47'-12"B @ 1.0%

DO NOT DISTURB

PB2 DR65 DR63

CONST. LIMITS

BEST WESTERN SIGN

BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT APPROX. LOCATION

PAIN & PLEASURE SIGN

PAIN & PLEASURE #6015

+71, Comm. Drive, Reconstruct

+36, Com. Drive, Remove

RES. #6019

+19, Res. Drive, Reconstruct

VACANT

+65, Com. Drive, Remove

P.I.= Sta. 227+78.87
D = 19° 28' 19" (RT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 491.54'
L = 973.59'
E = 41.86'
C = 968.91'
C.B. = S 27° 24' 02" E

PROP. PROFILE GRADE

EXISTING PROFILE ALONG ℄ CONST.

609.55 610.20 610.84 611.56 612.35 613.08 613.62 614.09 614.47 614.87 615.11

609.49 610.03 610.55 611.33 611.79 612.32 612.93 613.43 613.79 614.14 614.39

615 610 605 600 595 590 585

BUCKEYE UNDERGROUND APPROX. LOCATION

PROP. PROFILE GRADE (SEE SHEETS 81 & 82)

STA. 224+00.0, 49.0' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 611.63
℄ 12" SE = 607.94

STA. 224+47.5, 49.7' RT
PROP CB-7, AS PER PLAN
T/GRATE = 612.13
℄ 12" N = 608.68

6" 16" 18" STM. 6" ABND. 12"B 12" STM. LT. 15" STM. 12" SAN. 8" SAN.

RECONSTRUCT TO GRADE
(SV 5144)
STA. 221+28.0, 34.9' RT.
EX. CB = 609.10
℄ 18" N&S=600.80

ADJUST TO GRADE
(SV 5728)
STA. 224+04.2, 38.6' LT.
EX. SAN. MH=614.68
℄ 8" N,S,E=600.28

RECONSTRUCT TO GRADE
(SV 5168)
STA. 224+27.1, 34.8' RT.
EX. CB = 611.73
℄ 18" N=603.83
℄ 15" S=603.83
℄ 12" E=606.33
℄ 8"W=606.53
℄ 12" NW=607.66

(SV 5729)
STA. 224+08.2, 48.4' LT.
EX. CB = 611.18
℄ 12" S&W=608.18

(SV 11314)
STA. 225+43.5, 52.7' LT.
EX. CB = 615.34
℄ 12" N=609.54
℄ 4" NE=609.74
℄ 6" E=611.64
℄ 6" SE=613.24

221+00 222+00 223+00 224+00 225+00 226+00

PLAN NORTH

CROSS REFERENCE	
81-82	Super Elevation Table
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
314 & 315	Intersection Detail
272 - 276	Bogart Rd. Plan & Profile
489-493	Proposed Signal Plan

P.I.= Sta. 227+78.87
D = 19° 28' 19" (RT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 491.54'
L = 973.59'
E = 41.86'
C = 968.91'
C.B. = S 27° 24' 02" E

LEGEND
- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole
- Item 660, Sodding

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - US 250
STA. 226+00.00 TO STA. 230+00.00

ERI-250-0.00

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CROSS REFERENCE	
81-82	Super Elevation Table
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

P.I.= Sta. 227+78.87
D = 19° 28′ 19″ (RT)
Dc = 2° 00′ 00″
R = 2,864.79′
T = 491.54′
L = 973.59′
E = 41.86′
C = 968.91′
C.B. = S 27° 24′ 02″ E

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Ex. Stone Removed And Replaced W/ 203 And Seeded

MATCH LINE STA. 230+00 US 250

+35, Com. Drive No Work

+33, Com. Drive Reconstruct

+66, Com. Drive Reconstruct

+35, Com. Drive No Work

(SV 10324) EX. CB = 614.71 ℄ NE= 604.31

Ex U (SV10326) EX. CB = 614.11 ℄ 24″ N&S=605.41

(SV 10240) EX. CB = 613.35 ℄ 24″ N=610.25 ℄ 6″ W=611.35

8″ SAN. — TRAFFIC BOX — ASPH. — UNK. — PB1 — +00.00 — +07.08

CONST. LIMITS

60.53′ - 8′-0″ BOX CULVERT

8″ (ABAN.)

231 — 232 — 233 — 234

℄ SURVEY & CONST. US 250 (MILAN RD.)

S 17° 39′ 53″ E

PT Sta. 232+60.92

REMOVE LANDSCAPING — R1 — D1 — S1 — R2

EX. 21″ mulch — EX. 24″ mound — EX. 24″ GRASS — EX. 24″ CONC.

ITALIAN RESTAURANT SIGN — DO NOT DISTURB — D2 — DR69 — DR70

CONST. LIMITS — TMP — ASPH.

COMMERCIAL SIGN — DO NOT DISTURB — STN.

EX. 34″ WATER NASA

LINDSLEY DITCH

TOUCH OF THE — WEAZY'S

END PROJECT STA. 234+00.00 SLM = 4.43

PROP. PROFILE GRADE	616.35	616.48	616.63	616.66	616.56	616.37	616.21	616.25	616.34	PROP. PROFILE GRADE
615	PROP. PROFILE GRADE (SEE SHEETS 81 & 82)									615
610										610
605	21″ STM.		24″ STM.	12″ SAN.			24″ STM.			605
600			RECONSTRUCT TO GRADE (SV 11317) STA. 230+78.3, 34.9′ RT EX. CB = 614.61 ℄ 12″ W=610.41		6″ STA. 232+65.6±, ℄ EX. 6′-5⅛″X8′-0″ BOX CULVERT ℄ EL.-604.0± (PER ERI-250-1.14)		STA. 233+94.5±, 41.7′± RT. ℄ 24″ N=606.2± (PER ERI-250-1.14)			600
595					RECONSTRUCT TO GRADE (SV 11316) STA. 231+85.5, 52.5′ RT. EX. SAN. MH = 613.76 ℄ 8″ E=604.96					595
590	RECONSTRUCT TO GRADE (SV90306) STA. 230+76.2, 41.0′ RT EX. ST. MH = 614.71 ℄ 12″ E=610.21 ℄ 21″ N=607.21 ℄ 24″ S=607.21				(SV 10323) STA. 231+83.9, 70.2′ LT. EX. SAN. MH = 615.69 ℄ 8″ SE=610.49 ℄ 12″ N,S,W,& NE=603.29					590
585										585
EXISTING PROFILE ALONG ℄ CONST.	615.63	615.76	615.88	615.94	616.12	616.14	616.22	616.23	616.34	616.44	616.47	EXISTING PROFILE ALONG ℄ CONST.
	230+00		231+00		232+00		233+00		234+00		235+00	

PLAN AND PROFILE - US 250
STA. 230+00.00 TO STA. 235+00.00

ERI-250-0.00

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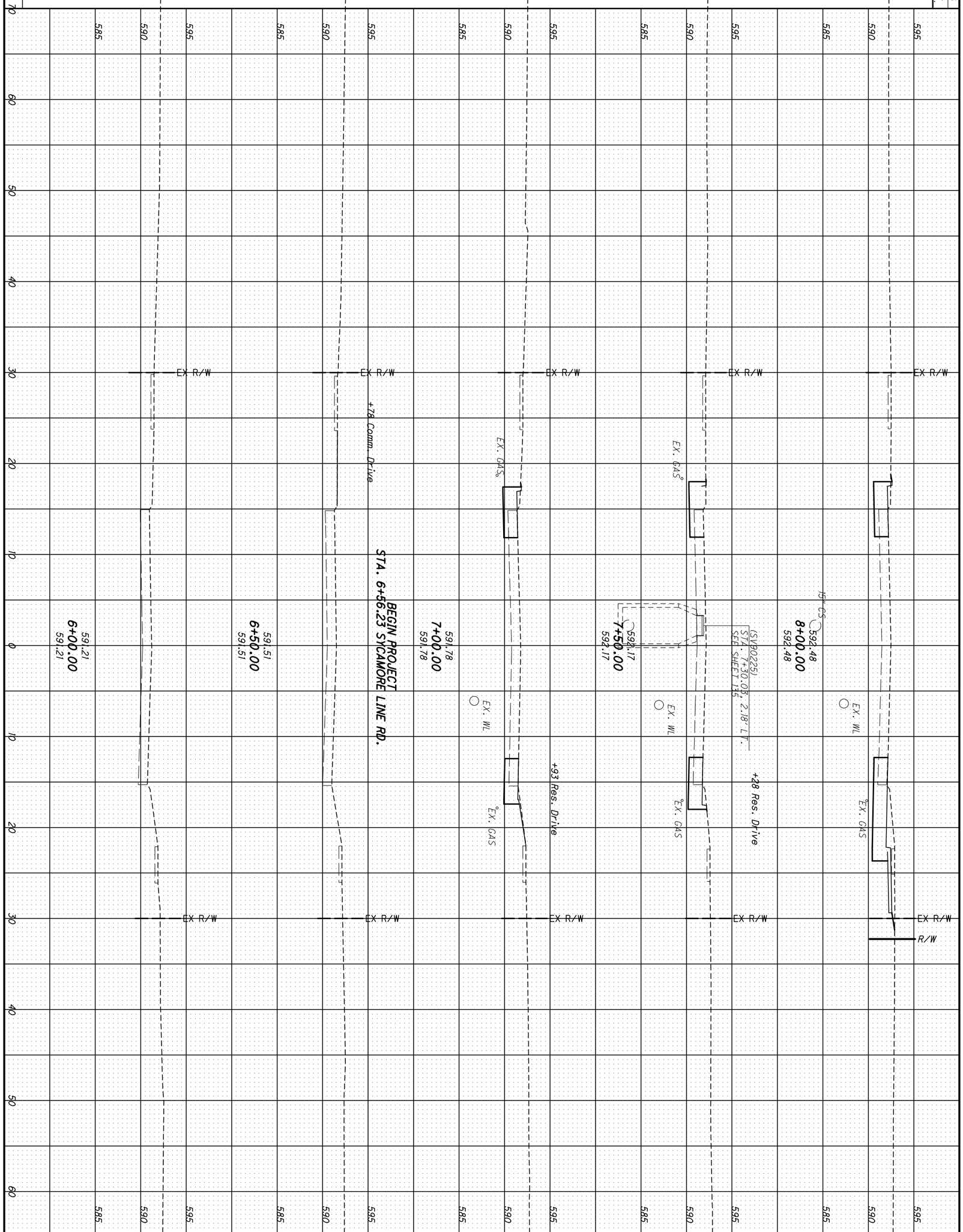
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

169 / 677	ERI-250-0.00	CROSS SECTIONS SYCAMORE LINE ROAD STA. 6+00.00 TO STA. 8+00.00	CALCULATED: JJ CHECKED: GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

585 590 595 585 590 595

TMP R/W

EX R/W EX R/W

S1 STA. 8+46.2, PROP. CB-3A, 19.7' LT, W/ 2' SUMP, AS PER PLAN SEE SHEET 135

TO BE REMOVED (SV 6169) STA. 8+46.5, 13.9' LT. SEE SHEET 135

8"-12"B

15" CS

593.40
9+00.00
593.40

(SV902223) STA. 8+45.57, 1.86' LT. EX. CS MH SEE SHEET 135

592.82
8+50.00
592.82

EX. WL

2"

37'-12"B @ 5.0%

TO BE REMOVED (SV 6211) STA. 8+32.8, 16.9' RT. SEE SHEET 135

EX. GAS

EX. GAS

EX. WL

S2 STA. 8+27.0, 31.5' RT. PROP. CB-3A, W/ 2' SUMP, AS PER PLAN SEE SHEET 135

EX. WL

FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL VOLUME: CUT | FILL

EX R/W

170 / 677

ERI-250-0.00

CROSS SECTIONS SYCAMORE LINE ROAD
STA. 8+50.00 TO STA. 9+00.00

CALCULATED JJ
CHECKED GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

BEGIN PROJECT US-250
STA. 0+00.00
(SYCAMORE LINE RD.)

0+00.00
593.70

0+50.00
593.54

1+00.00
594.09

1+50.00
594.90

S3 STA. 0+24.0, 19.7' RT.
PROP. OB-3, W/ 2' SUMP,
AS PER PLAN
SEE SHEET 135

S4 STA. 1+02.7, 57.5' LT.
PROP. OB-3A, W/ 2' SUMP,
AS PER PLAN
SEE SHEET 135

(SV902231)
STA. 0+06.41, 2.01' LT.
EX CS MH
SEE SHEET 135

TO BE REMOVED
(SV 11283)
STA. 0+81.3, 45.2' LT.
SEE SHEET 135

TO BE REMOVED
(SV 11284)
STA. 0+27.3, 23.9' RT.
SEE SHEET 135

0+05 Res. Drive
Drive Profile
0+05, Res.

0+71 Res. Drive
Drive Profile
0+71, Res.

1+17 Res. Drive
Drive Profile
1+17 Res.

EX. GAS
EX. WL
12" W
12-12"B
15" CS
R/W
EX R/W
TMP

FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

171
677

ERI-250-0.00

CROSS SECTIONS U.S. ROUTE 250 (SYCAMORE LINE RD.)
STA. 0+00.00 TO STA. 1+50.00

CALCULATED JJ
CHECKED GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

EX R/W

EX. GAS

36"

SUSPEND PROJECT US-250 STA. 2+42.00 (SYCAMORE LINE RD.)

(SY90226) STA. 1+98.88, 27.7' LT. EX. CS MH SEE SHEET 135

595.32
2+00.00
595.32

EX. WL

595.33
2+50.00
595.33

(SY6076) STA. 2+30.20, 26.4' LT. EX. CS MH SEE SHEET 135

595.23
3+00.00
595.23

585 590 595 600

FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

172/677

ERI-250-0.00

CROSS SECTIONS U.S. ROUTE 250 (SYCAMORE LINE RD.)
STA. 2+00.00 TO STA. 3+00.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

590 585

+15, Com. Drive, Reconstruct
See Detail Sheet 323

EX. GAS
EX. 8" WL
EX SH
TMP

70+00.00
588.67

69+50.00
588.37

69+00.00
588.29

68+50.00
587.93

68+00.00
587.73

67+50.00
587.42

RESUME PROJECT
STA. 66+28.84 US-250
(MILAN ROAD)

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 67+50.00 TO STA. 70+00.00

ERI-250-0.00

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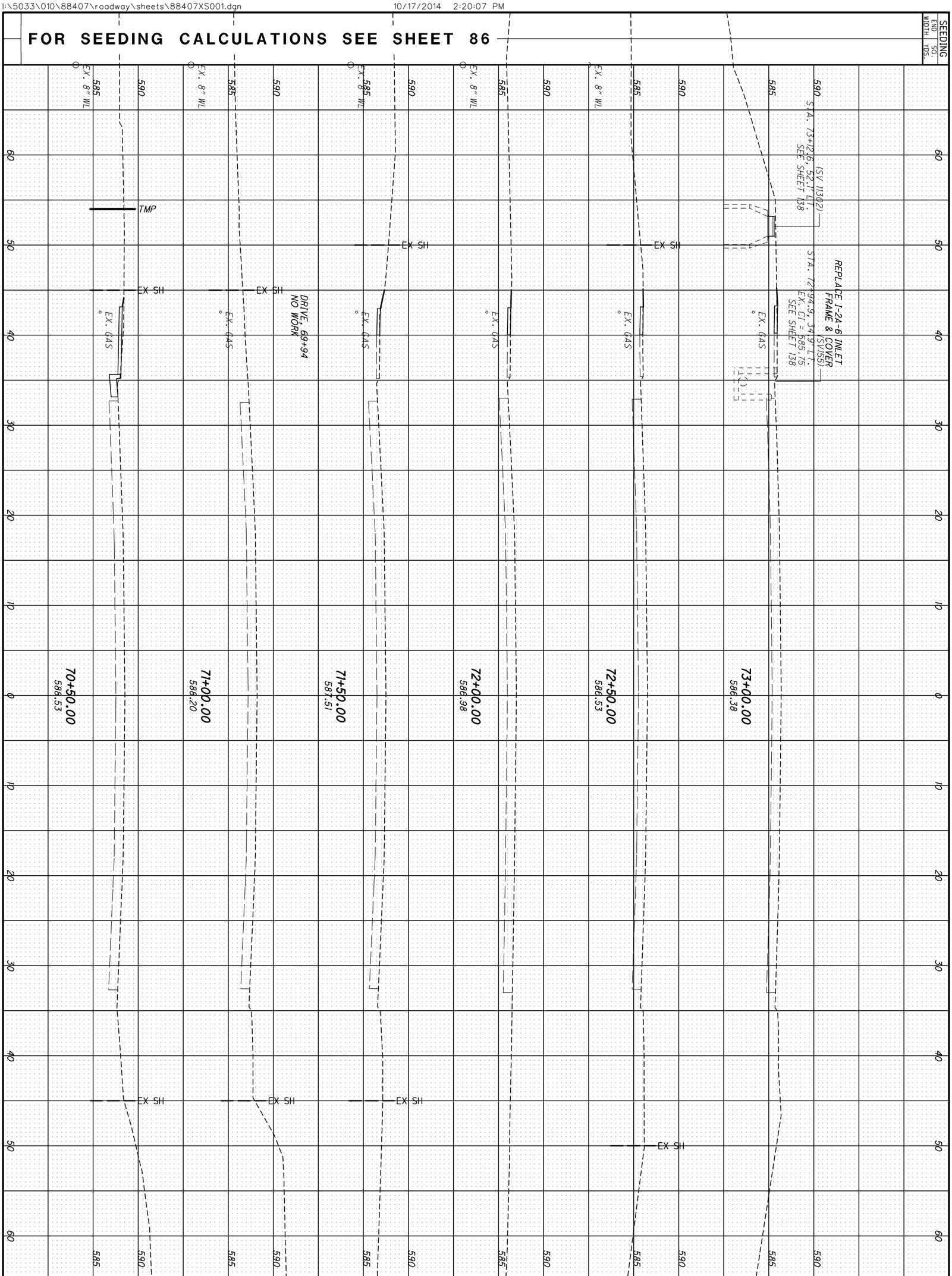
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

174 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 70+50.00 TO STA. 73+00.00	CALCULATED: JJ CHECKED: GAB

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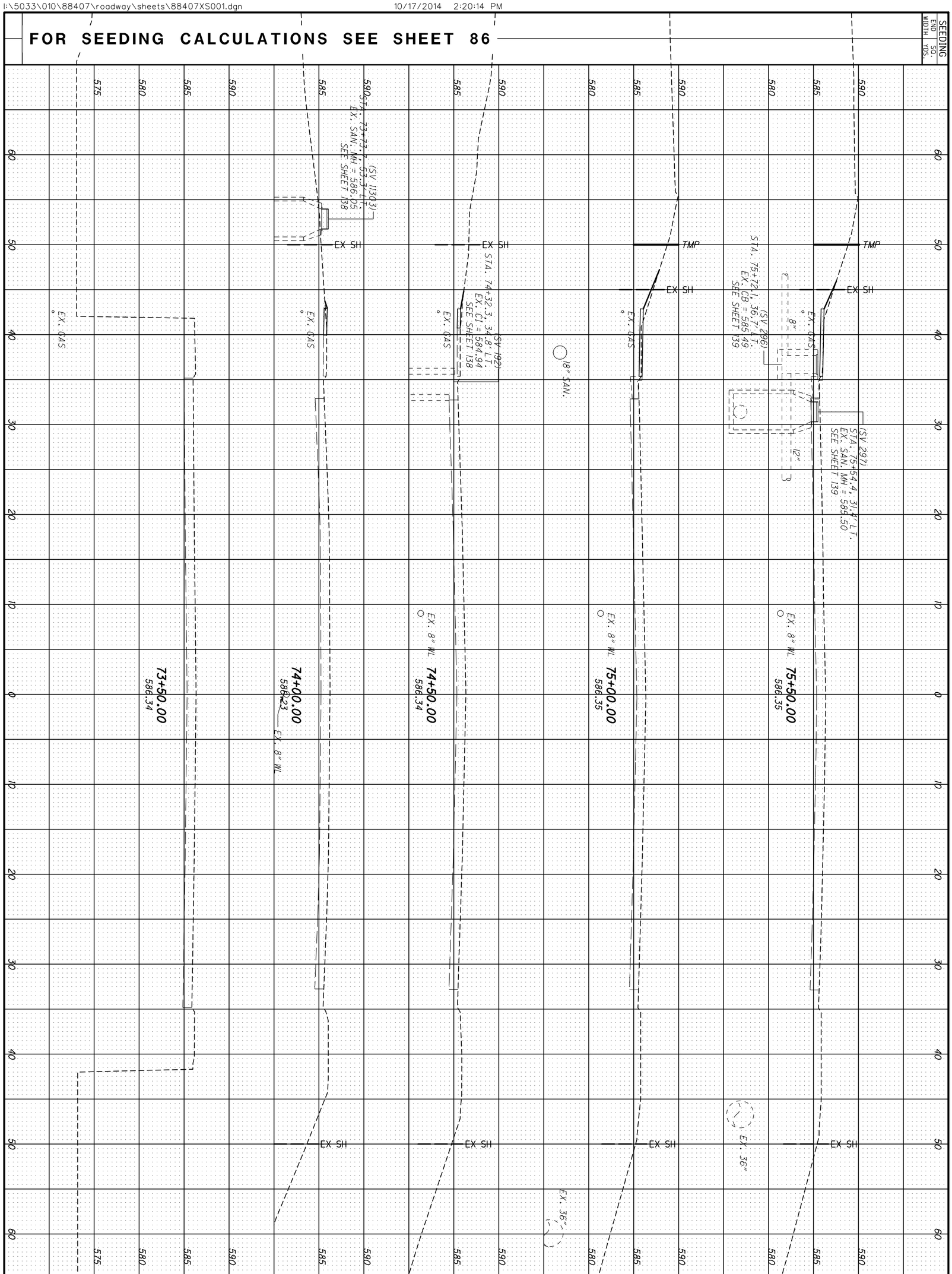
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

175
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 73+50.00 TO STA. 75+50.00

CALCULATED: JJ
CHECKED: GAB

SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

100 90 80 60 50 40 30 20 10 0 10 20 30

590 585 580

TMP

10' V.C.

-14%

85' LT

+80, Res. Drive, Reconstruct

EX SH

45' LT

-2%

4%

EX. GAS

EX. 8" WL

77+80.00
588.01

77+50.00
587.84

18" SAN.

CTV

T E

BUCKEYE UNDERGROUND
FIBER IN CONDUIT
APPROX. LOCATION

77+00.00
587.44

18" SAN.

76+50.00
587.10

18" SAN.

DRIVE, 75+84
NO WORK

76+00.00
586.74

18" SAN.

100 90 80 60 50 40 30 20 10 0 10 20 30

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 76+00.00 TO STA. 77+80.00

ERI-250-0.00

176
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL — VOLUME: CUT | FILL

78+00.00
588.10

78+46.00
588.63

79+05.00
588.98

79+50.00
589.33

79+65.00
589.44

80+00.00
589.68

TMP

EX SH

EX. GAS

EX. 8" WL

EX. 48" CMP

77' LT

69' LT

64' LT

45' LT

10' V.C.

0.1429 MAX. EX.

0.1400

0.1470 MAX. EX.

0.1437 MAX. EX.

+45, Res. Drive, Reconstruct

+05, Res. Drive, Reconstruct

+65, Res. Drive, Reconstruct

(SV 424)
STA. 78+82.2, 32.5' LT.
EX. SAN. MH= 587.77
SEE SHEET 139

177
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 78+00.00 TO STA. 80+00.00

CALCULATED JJ
CHECKED GAB

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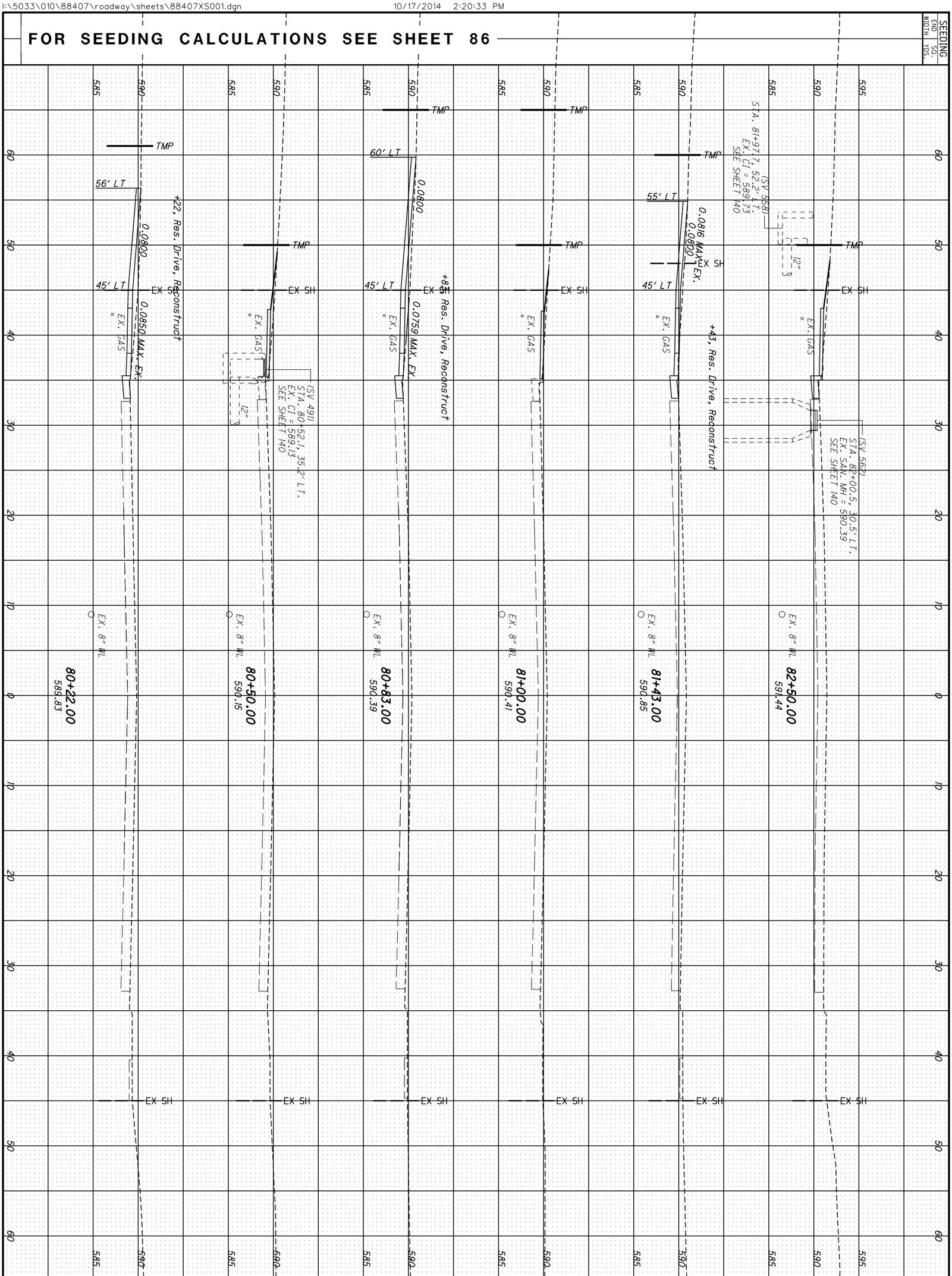
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

178/677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 80+22.00 TO STA. 82+50.00

CALCULATED JJ
CHECKED GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

179 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 83+00.00 TO STA. 85+00.00	CALCULATED JJ CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

VOLUME	
CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

595 590

TMP EX SH EX. GAS EX. 8" WL EX. 24" WL EX. 48" EX. GAS

87+50.00
594.99

(SV 816)
STA. 87+12.92, 30.8' LT.
EX. SAN. MH = 593.80
SEE SHEET 141

87+00.00
594.73

86+50.00
594.52

DRIVE, 86+30
SEE DETAIL SHEET 324

86+30.00
594.32

86+00.00
594.00

DRIVE, 85+34
SEE DETAIL SHEET 324

85+34.00
593.64

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD) STA. 85+34.00 TO STA. 87+50.00

ERI-250-0.00

180
677

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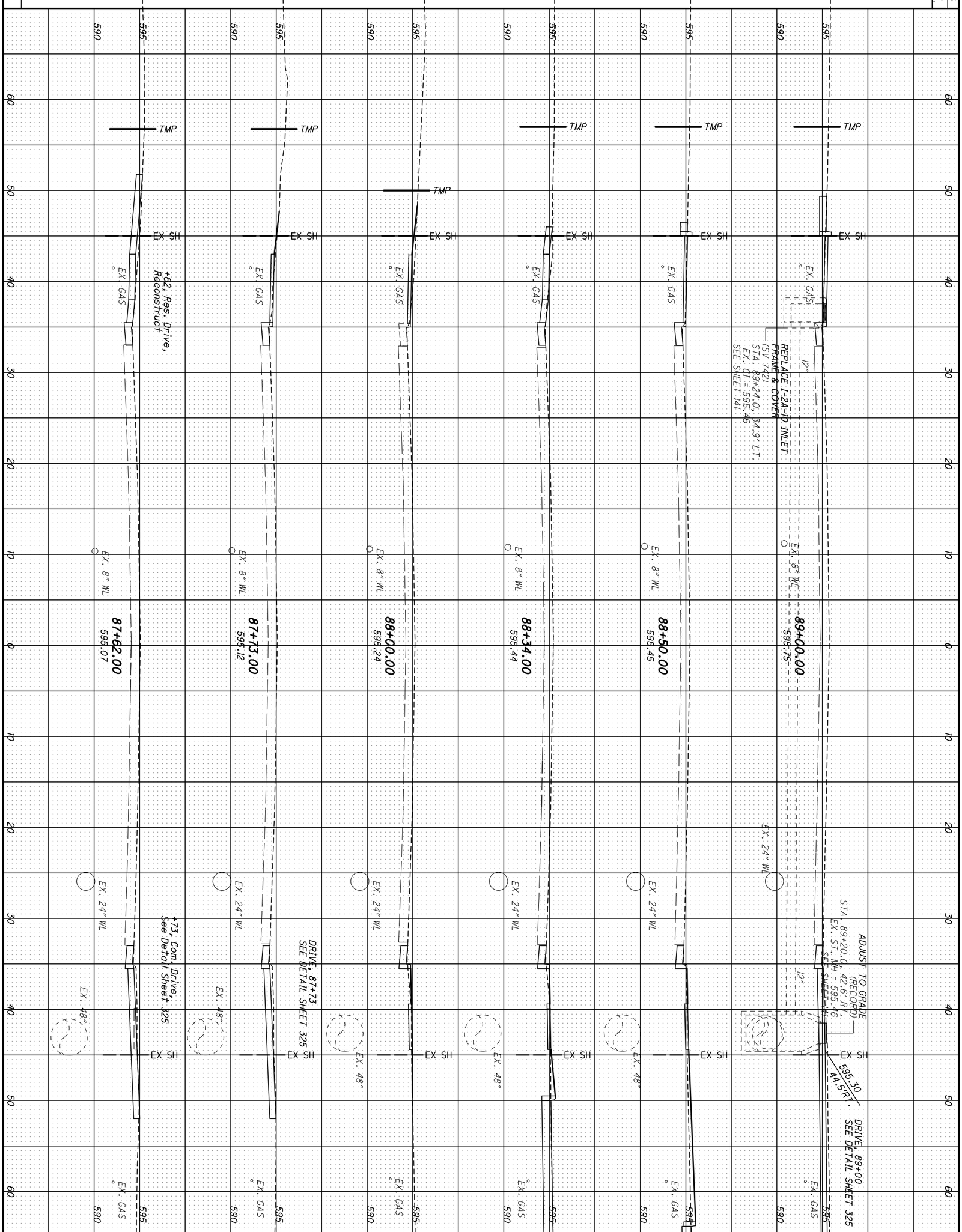
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

181 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 87+62.00 TO STA. 89+00.00	CALCULATED: JJ CHECKED: GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

600 595 590

TMP

EX SH

EX. GAS

EX. 8" WL

EX. 24" WL

91+50.00
598.22

91+00.00
597.82

90+50.00
597.44

90+00.00
596.94

89+50.00
596.39

(D1) PROP. CB-6, AS PER PLAN
T/GRATE = 596.00
SEE SHEET 142

TO BE REMOVED
(SV 722)
STA. 90+68.8, 44.1' LT.
EX. CB = 596.00
SEE SHEET 142

(SV 727)
STA. 90+43.4, 30.3' LT.
EX. SAN. MH = 596.20
SEE SHEET 142

FOctv

BUCKEYE UNDERGROUND
FIBER IN CONDUIT
APPROX. LOCATION

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD) STA. 89+50.00 TO STA. 91+50.00

ERI-250-0.00

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

600 595 590

TMP

EX SH

EX. GAS

EX. 8" WL

EX. 24" WL

EX R/W

12" SAN.

DRIVE, 93+22
SEE DETAIL SHEET 326

(SV 686)
STA. 93+09.8, 54.8' LT.
EX. SAN. MH = 598.28
SEE SHEET 142

(SV 684)
STA. 93+09.6, 30.6' LT.
EX. SAN. MH = 598.29
SEE SHEET 142

93+50.00
599.93

93+22.00
599.68

93+00.00
599.44

92+50.00
598.85

92+00.00
598.72

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD) STA. 92+00.00 TO STA. 93+50.00

ERI-250-0.00

183
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

605 600 595 590

TMP

EX R/W

EX SH

(SV 576)
STA. 97+06.9, 30.6' LT.
EX. SAN. MH = 601.32
SEE SHEET 143

EX. GAS

EX. 8" WL

EX. 6" WL (ABAND.)

EX. 24" WL

97+00.00
602.04

ADJUST TO GRADE
(SV 614)
STA. 95+72.6, 55.4' LT.
EX. SAN. MH = 600.24
SEE SHEET 143

(SV 592-593)
STA. 96+14.0, 41.2' LT.
EX. CB = 600.84
SEE SHEET 143

12"

95+50.00
601.15

95+00.00
600.87

12" SAN.

94+50.00
600.73

94+00.00
600.33

REPLACE I-2A-6 INLET FRAME & COVER
(SV 675)
STA. 93+99.0, 34.9' LT.
EX. CI = 599.30
SEE SHEET 142

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 94+00.00 TO STA. 97+00.00

ERI-250-0.00

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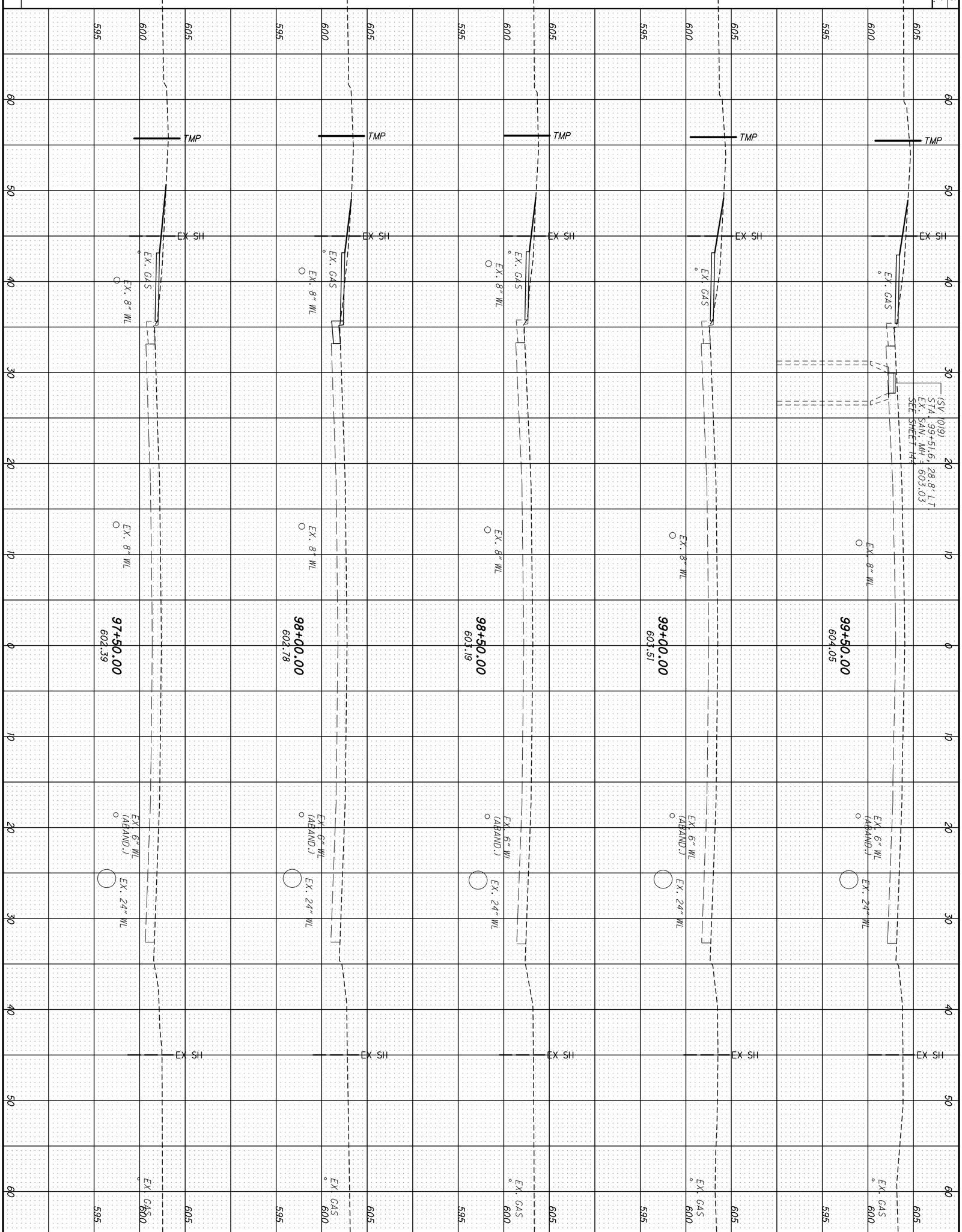
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

185 677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 97+50.00 TO STA. 99+50.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600 595

R/W EX SH EX R/W TMP

STA. 120+70.6, 40.6' LT.
12'x6'x7' TELE. VAULT

EX. TELE.
EX. CTV

ABAN. 6" WATER

120+50.00
611.33

EX. 16" WATER

(SV 1145)
STA. 102+60.1, 30.5' LT.
EX. SAN. MH = 604.95
SEE SHEET 144

EX. GAS

EX. 6" WL

102+50.00
605.87

EX. 24" WL

SUSPEND PROJECT
STA. 102+09.19 US-250
(MILAN ROAD)

(SV 1110)
STA. 101+99.3, 34.7' LT.
EX. CI = 605.33
SEE SHEET 144

12"

102+00.00
605.67

EX R/W

101+50.00
605.57

12" SAN.

EX. 8" WL

EX. 6" WL (ABAND.)

100+00.00
604.35

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 100+00.00 TO STA. 120+50.00

ERI-250-0.00

186
677

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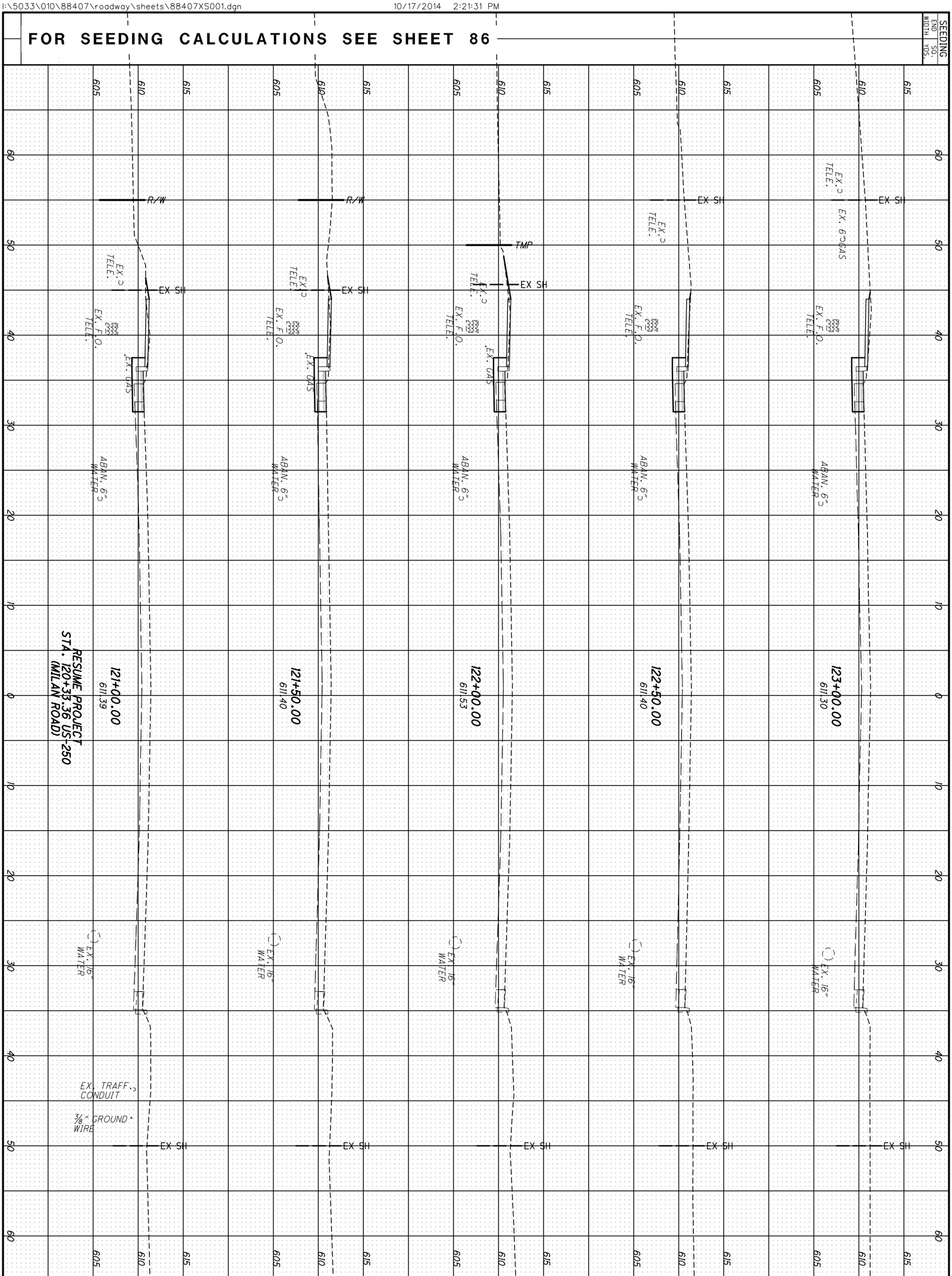
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

187 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 121+00.00 TO STA. 123+00.00	CALCULATED: JJ CHECKED: GAB

SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600

EX. 6" GAS

TMP

EX SH

EX. TELE.

EX. F.O. TELE.

ABAN. 6" WATER

126+00.00
610.85

EX. 16" WATER

EX. 30" STM.

EX16H

TMP

EX. 2" GAS

EX. 12" STM

STA. 125+73.1, 36.0' LT.
PROP. CB-3, AS PER PLAN
SEE SHEET 146

12"B

TO BE REMOVED
(SV 1337)
STA. 125+73.1, 34.8' LT.
EX. CB = 609.77
SEE SHEET 146

125+50.00
610.85

EX. 16" WATER
(SV 1524)
STA. 125+73.1, 35.1' RT.
EX. CB = 609.54
SEE SHEET 146

EX. 12"

ADJUST TO GRADE
(SV 1525)
STA. 125+72.2, 40.9' RT.
EX. MH = 610.61
SEE SHEET 146

STA. 124+85±, 50.2' LT.
12'x6'x7' TELE. VAULT

125+00.00
610.80

STA. 125+08.0, 35.0' RT
PROP. CB-3, AS PER PLAN
SEE SHEET 146

STA. 125+08.0, 41.0' RT
PROP. MH-3, AS PER PLAN
SEE SHEET 146

R/W

D1 STA. 123+61.8, 35.0' RT
PROP. CB-3, AS PER PLAN
SEE SHEET 145

123+50.00
611.11

D2 STA. 123+61.8, 39.7' RT
PROP. MH-3, AS PER PLAN
SEE SHEET 145

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 123+50.00 TO STA. 126+00.00

ERI-250-0.00

188
677

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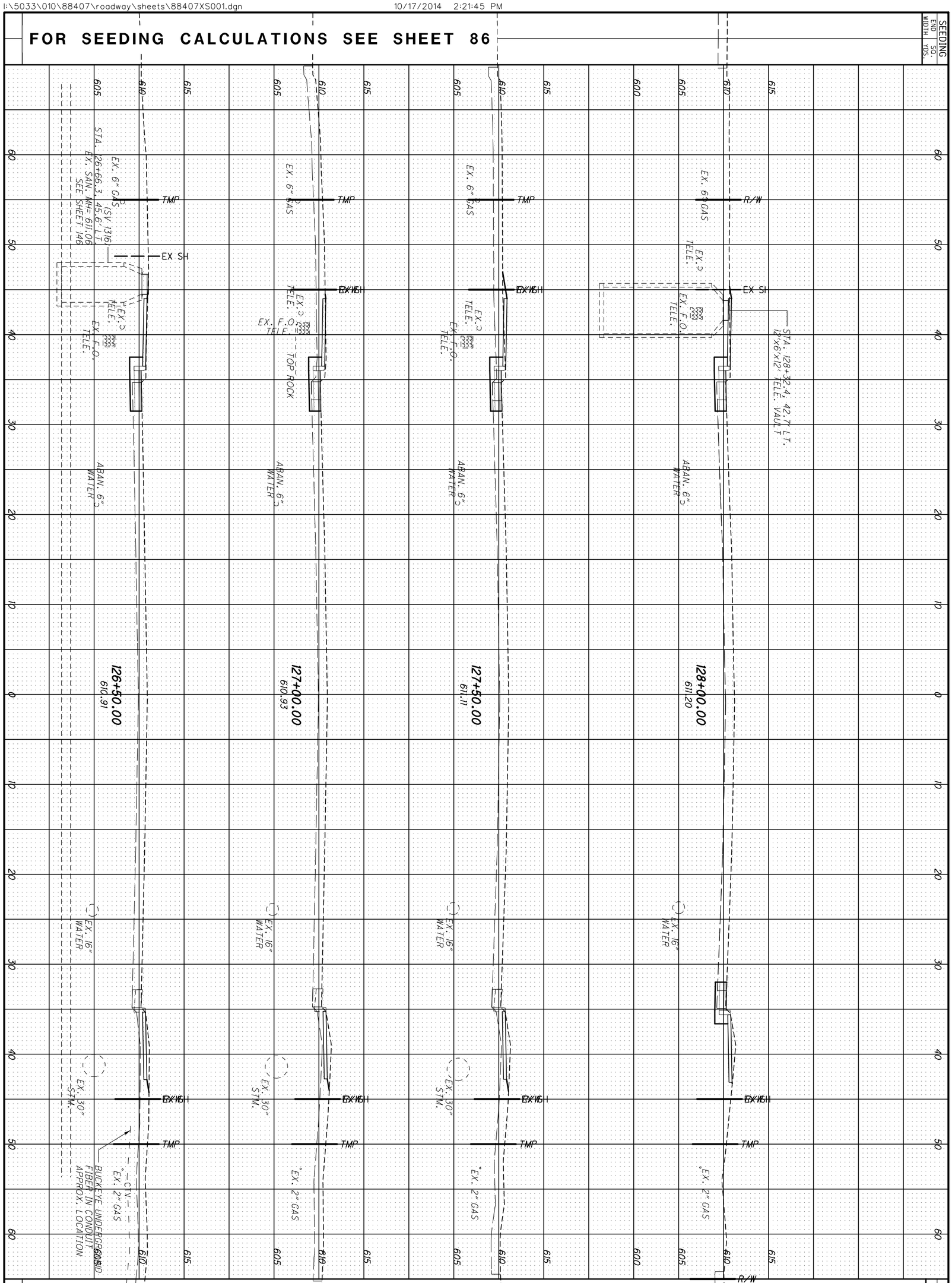
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA CUT | FILL
VOLUME CUT | FILL

189 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 126+50.00 TO STA. 128+00.00	CALCULATED JJ CHECKED GAB

SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615
610
605
600

TMP
EX 16"H
EX. 6"S GAS
EX. S TELE.
EX. F.O. TELE.
ABAN. 6"S WATER
EX. 16" WATER
EX SH
EX. 24" STM.
EX. 2" GAS
R/W

129+50.00
611.38

ADJUST TO GRADE
REPLACE FRAME AND GRATE
WITH TRAFFIC RATED FRAME
AND GRATE
(SV 1588)
STA. 129+62.6, 59.0' RT.
EX. CB = 609.28
SEE SHEET 147

+37, 47' COMM. DRIVE, SEE DETAIL SHEET 327

129+24.00
611.36

129+00.00
611.31

D4 STA. 128+23.6, 36.0' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 146

D5 STA. 128+29.7, 36.0' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 146

EX. 2" GAS

128+50.00
611.30

12"B
TO BE REMOVED
(SV 1303)
STA. 128+25.7, 35.0' LT.
EX. CB = 610.38
SEE SHEET 146

EX. 12"

(SV 1559)
STA. 128+27.3, 33.5' RT.
EX. LT = 610.42
SEE SHEET 146

ADJUST TO GRADE
(SV 1560)
STA. 128+24.8, 42.0' RT.
EX. MH = 610.90
SEE SHEET 146

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 128+50.00 TO STA. 129+50.00

ERI-250-0.00

190
677

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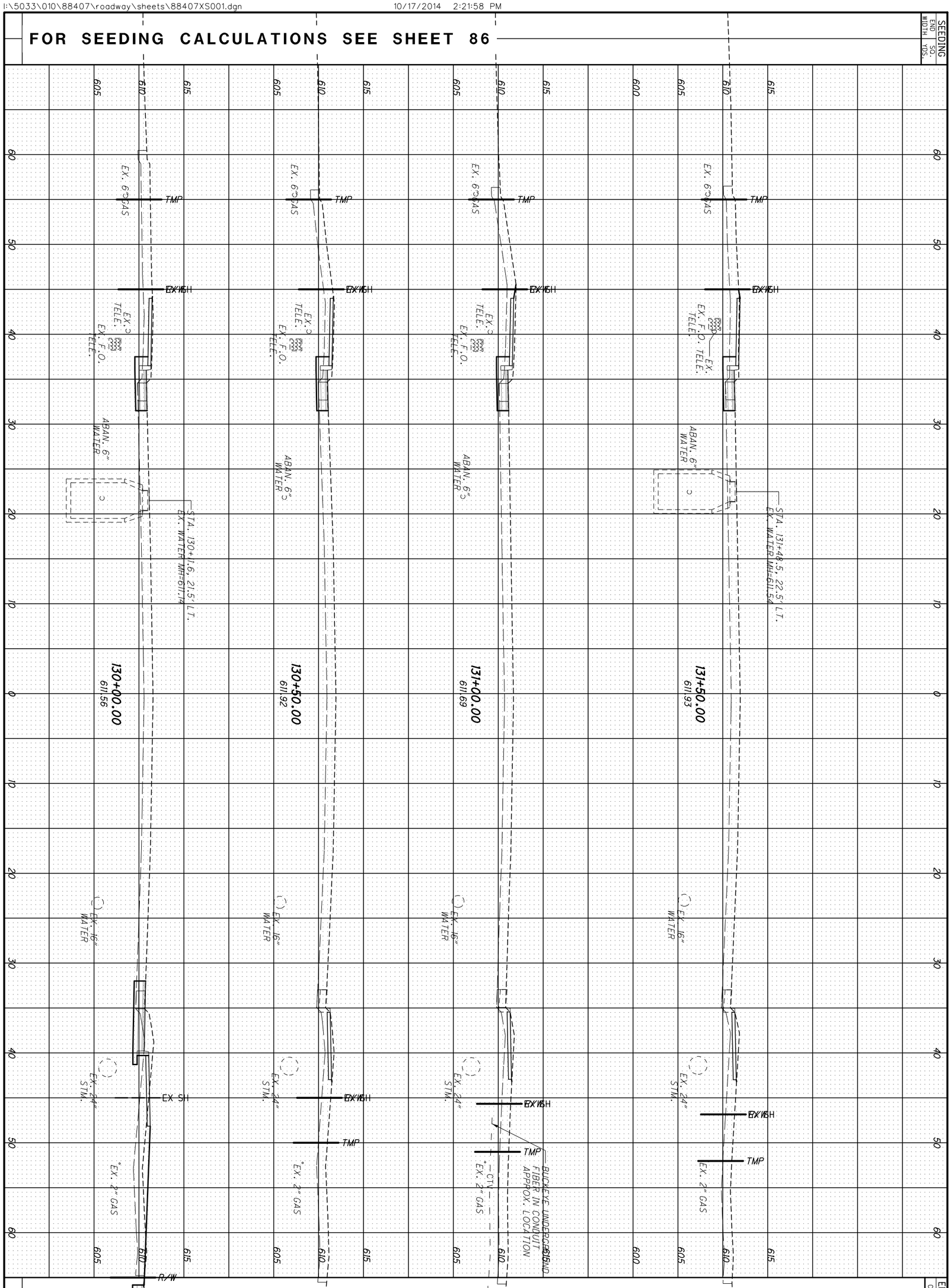
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

677 / 191	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 130+00.00 TO STA. 131+50.00	CALCULATED JJ CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600

TMP EX 16" SH EX SH R/W

EX. 6" GAS
EX. CTV.
EX. F.O. TELE.
EX. TELE.
ABAN. 6" WATER
EX. 16" WATER
EX. 2" GAS
EX. 12" STM
EX. 18" STM.
6"B
12"B

135+00.00
613.64

134+50.00
613.43

134+00.00
613.10

133+50.00
612.51

132+00.00
612.12

(SV 2222)
STA. 135+23.5, 53.3' RT.
SEE SHEET 148

D1 STA. 131+75.8, 36.0' LT.
PROP. CB-3, AS PER PLAN
SEE SHEET 147

D2 STA. 131+81.9, 36.0' LT.
PROP. CB-3, AS PER PLAN
SEE SHEET 147

TO BE REMOVED
(SV 126)
STA. 131+75.8, 34.6' LT.
EX. CI = 611.22
SEE SHEET 147

(SV 1627)
STA. 131+77.7, 35.1' RT.
EX. CI = 611.21
SEE SHEET 147

ADJUST TO GRADE
(SV 1626)
STA. 131+75.3, 41.3' RT.
EX. MH = 611.38
SEE SHEET 147

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 132+00.00 TO STA. 135+00.00

ERI-250-0.00

192
677

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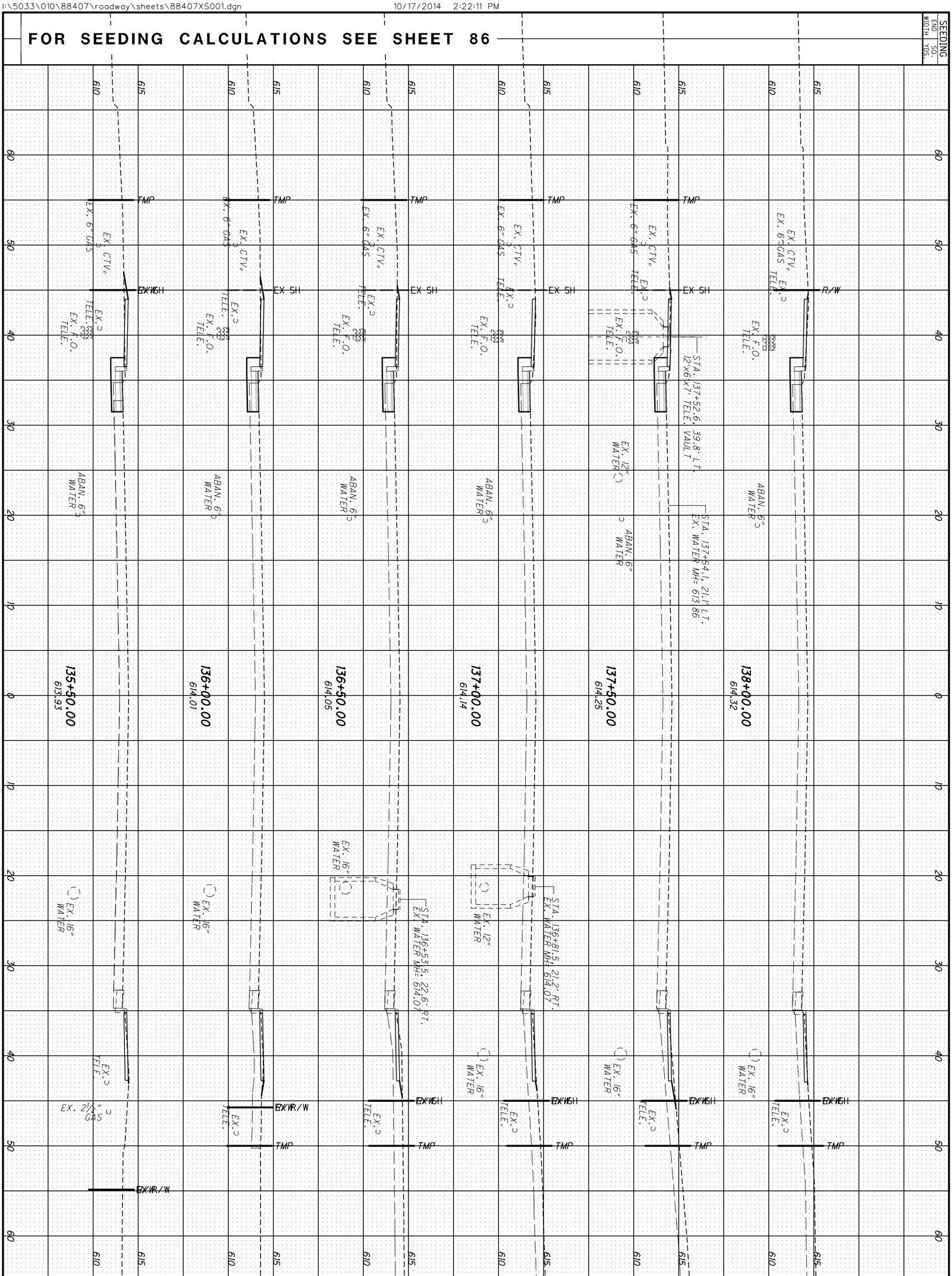
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

193
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 135+50.00 TO STA. 138+00.00

CALCULATED JJ
CHECKED GAB

SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 / 610

TMP · R/W · EX SH · EX 16"H

EX. 6"GAS · EX. TELE. · EX TELE · ABAN. 6" WATER · EX. 16" WATER

142+00.00
614.54

EX. 6" GAS · EX. TELE. · EX. F.O. TELE. · ABAN. 6" WATER · EX. 16" WATER

141+50.00
614.44

D1 STA. 140+78.8, 40.4' LT
PROP. CB-3A, AS PER PLAN
SEE SHEET 149

EX. 6" GAS · 12"B · 12"B · EX. F.O. TELE. · EX. 12" STM. · ABAN. 6" WATER · EX. 16" WATER

TO BE REMOVED (SV 1839)
STA. 140+78.8, 40.1' LT.
EX. MH=613.35
SEE SHEET 149

TO BE REMOVED (SV 1838)
STA. 140+78.8 34.4' LT.
EX. CI=613.11
SEE SHEET 149

(SV 2123)
STA. 140+78.5, 35.5' RT.
EX. CI = 612.96
SEE SHEET 149

141+00.00
614.35

15"B · EX. 6" GAS @ 140+71± · EX. 15" STM. · EX. F.O. TELE. · ABAN. 6" WATER · EX. 16" WATER

140+50.00
614.25

TO BE REMOVED (SV 1783)
STA. 139+73.8, 40.6' LT.
EX. MH=613.96
SEE SHEET 149

STA. 139+71.0, 35.0' RT
PROP CB-6, AS PER PLAN
SEE SHEET 149

EX. 6" GAS · EX. 15" · EX. F.O. TELE. · ABAN. 6" WATER · EX. 16" WATER

140+00.00
614.24

139+43.12, INTERSECTION
HULL ROAD

STA. 138+71.4, 63.7± RT
PROP CB-2-3, AS PER PLAN
SEE SHEET 149

EX. 6" GAS @ 138+84± · EX. TELE. · EX. CTV · EX. 2" · EX. TELE. · 21"C · 6" · EX. 16" WATER

(SV 1746)
STA. 138+73.3, 65.8' LT.
SEE SHEET 149

EX. 6" GAS 138+78± · EX. F.O. TELE. · ABAN. 6" WATER

138+50.00
614.46

(SV2182)
STA. 138+73.3, 62.5' RT.
SEE SHEET 149

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 138+50.00 TO STA. 142+00.00

ERI-250-0.00

194
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 / 610

FINISH BOTH SIDES OF CURB — TMP — R/W — EX SH — EX. 6" GAS — EX. TELE. — EX. F.O. TELE. — ABAN. 6" WATER — EX. 16" WATER — EX WGH — TMP

144+00.00
614.90

FINISH BOTH SIDES OF CURB 3' OPENING AT ℄ DRIVE — +85, 37' COMM. DRIVE, REMOVED

143+85.00
614.85

14' CURB CENTERED ON 19' DRIVE OPENING — EXISTING DRIVE PROFILE AT STA. 143+31 — STA. 143+31, COMM. DRIVE, REMOVED

143+50.00
614.82

143+00.00
614.83

CTV — BUCKEYE UNDERGROUND COAXIAL CABLE IN CONDUIT APPROX. LOCATION

142+50.00
614.61

52.00' LT. — +27.5, 24' COMM. DRIVE

142+30.00
614.59

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 142+30.00 TO STA. 144+00.00

ERI-250-0.00

195
677

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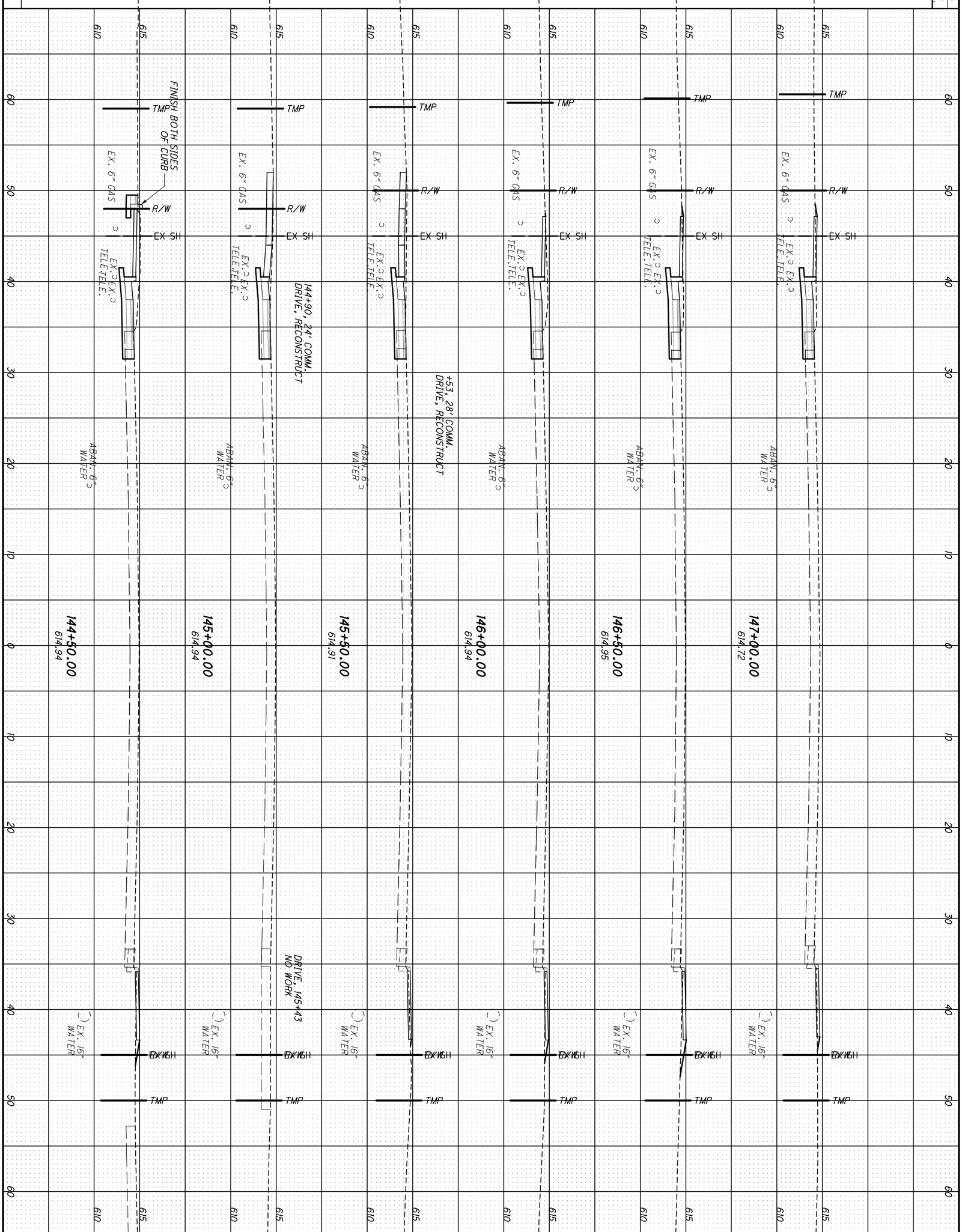
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

196
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 144+50.00 TO STA. 147+00.00

CALCULATED JJ
CHECKED GAB

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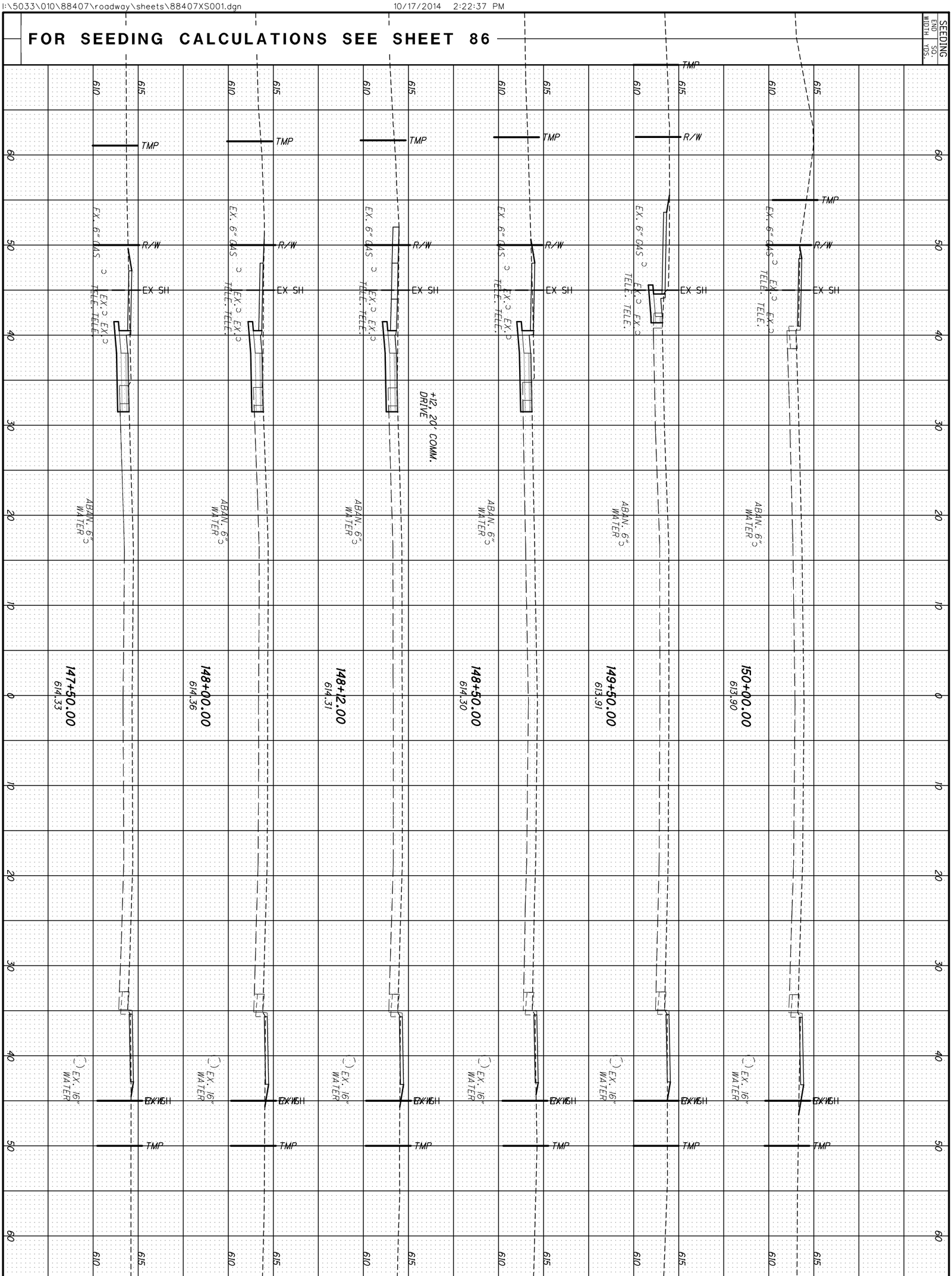
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END AREA WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

197 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 147+50.00 TO STA. 150+00.00	CALCULATED JJ CHECKED GAB

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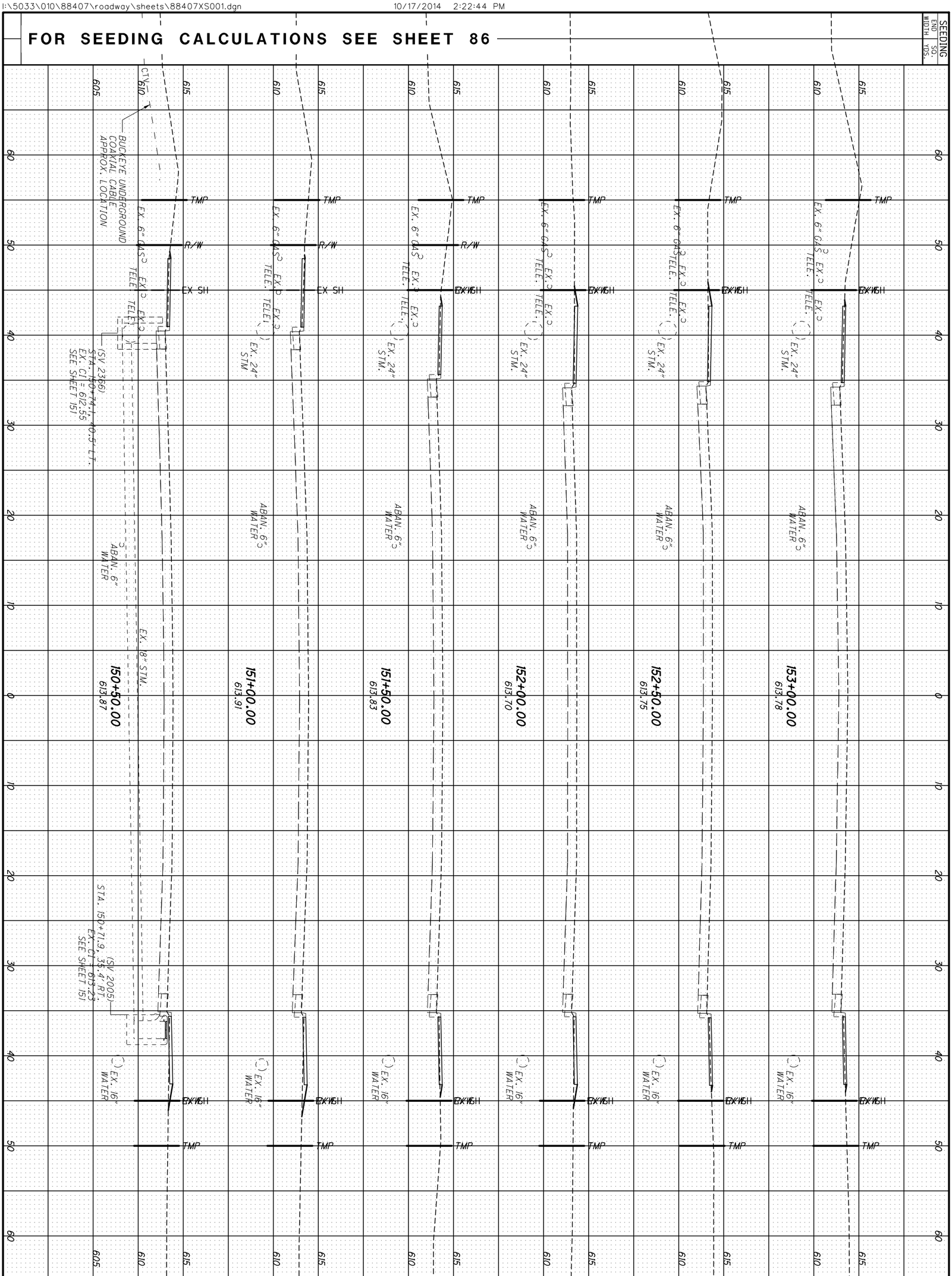
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

198
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 150+50.00 TO STA. 153+00.00

CALCULATED: JJ
CHECKED: GAB

SEEDING
END WIDTH | SQ. YDS.

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605

TMP R/W EX SH EX 6" GAS EX. TELE. EX. TELE. EX. 2" WATER EX. 30" STM. ABAN. 6" WATER EX. 12" STM. EX 16" WATER EX. 27" STM. EX. 15" EX. 16" WATER

LIMITS OF PLANNING & RESURFACING

+64, 42' COMM. DRIVE (MEIJER NORTH DRIVE) SEE DETAIL SHEET 302

156+50.00
614.37

156+00.00
613.93

155+00.00
613.53

154+50.00
613.53

154+00.00
613.44

153+50.00
613.63

ADJUST TO GRADE
(SV 2440)
STA. 154+74.0, 40.6' LT.
EX MH= 612.92
SEE SHEET 152

(SV 2439)
STA. 154+72.9, 34.4' LT.
EX. CI = 612.44
SEE SHEET 152

REPLACE CB-3 FRAME & GRATE
(SV 2638)
STA. 154+74.7, 35.4' RT.
EX. CI = 612.24
SEE SHEET 152

ADJUST TO GRADE
(SV 2430)
STA. 153+73.25, 40.6' LT.
EX. MH = 613.12
SEE SHEET 152

REPLACE I-2A-6 INLET FRAME & COVER MATCH EX. WIDTH
(SV 2429)
STA. 153+71.5, 34.5' LT.
EX. CI = 613.08
SEE SHEET 152

(SV 2658)
STA. 153+72.7, 35.5' RT.
EX. CI = 613.05
SEE SHEET 152

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 153+50.00 TO STA. 156+50.00

ERI-250-0.00

199
677

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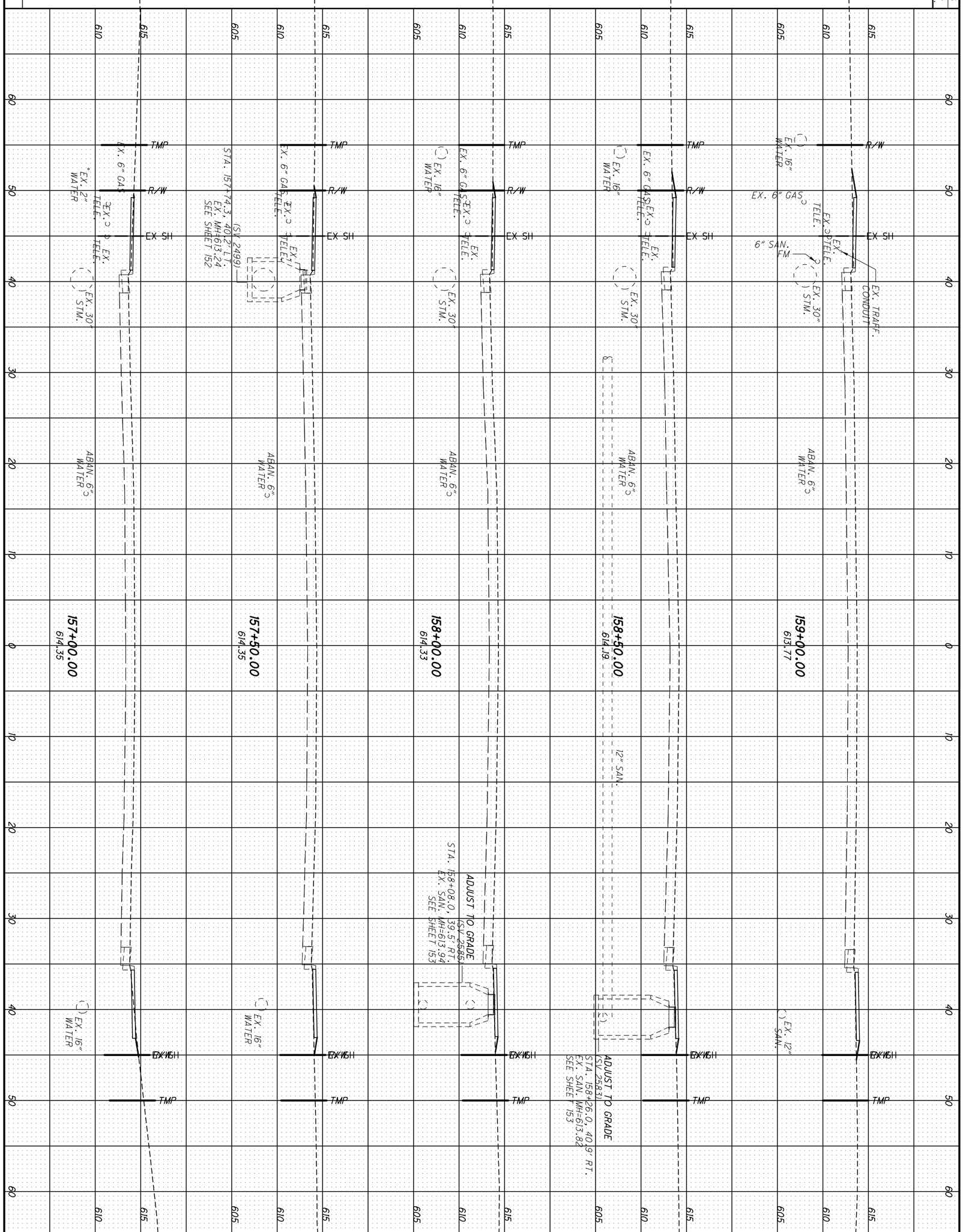
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

200 / 677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 157+00.00 TO STA. 159+00.00

CALCULATED: JJ
CHECKED: GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605

TMP EX 16H

EX. TELE. EX. TELE. 12" EX. 6" GAS EX. 16" WATER (SV 2697) STA. 161+44.5, 40.9' LT. EX. CI = 611.70 SEE SHEET 153 (SV 2696) STA. 161+44.0, 34.3' LT. EX. MH = 612.26 SEE SHEET 153 ABAN. 6" WATER 12" 161+50.00 612.93 (SV 3021) STA. 161+44.3, 35.3' RT. EX. CI = 612.18 SEE SHEET 153 EX. 12" SAN.

R/W EX SH EX. 6" GAS EX. TELE. EX. TELE. EX. 30" STM. EX. 16" WATER ABAN. 6" WATER 161+00.00 612.50 EX. 12" SAN.

D2 STA. 160+27.8, 58.2' LT PROP. CB-3A, AS PER PLAN SEE SHEET 153

D1 STA. 160+43.4, 40.8' LT PROP. MH-3, AS PER PLAN SEE SHEET 153

EX. 6" GAS EX. 16" WATER EX. TELE. EX. TELE. TO BE REMOVED (SV 2549) STA. 160+43.4, 41.1' LT. EX. CB = 611.80 SEE SHEET 153 12"B TO BE REMOVED (SV 2550) STA. 160+43.9, 36.7' LT. EX. MH = 612.26 SEE SHEET 153 ABAN. 6" WATER EX. 12" 160+50.00 612.96 (SV 2559) STA. 160+42.2, 35.6' RT. EX. CI = 612.79 SEE SHEET 153 EX. 12" SAN.

+90, 26' COMM. DRIVE MEIJER CENTER DRIVE (RIGHT-IN/RIGHT-OUT) SEE DETAIL SHEET 329

EX. 6" GAS EX. TELE. EX. TELE. EX. 30" STM. EX. 16" WATER ABAN. 6" WATER 160+00.00 613.26 EX. 12" SAN.

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 160+00.00 TO STA. 161+50.00

ERI-250-0.00

201
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600

R/W

EX SH

EX. 6" GAS TELE. EX. TELE.

EX. 16" WATER

ABAN. 6" WATER

163+50.00
613.76

EX. 12" STM

EX. 12" SAN.

EX MH

+13. 50' COMM. DRIVE
(RIGHT-IN/RIGHT-OUT)
SEE DETAIL SHEET 330

EX. CTV.

163+00.00
613.54

ADJUST TO GRADE
(SV 2983)
STA. 163+21.7, 41.5' RT.
EX. MH = 613.61
SEE SHEET 154

(SV 2709)
STA. 162+48.6, 36.1' LT.
EX. MH = 612.37
SEE SHEET 153

EX. CTV.

EX. 12"

162+50.00
613.43

EX. 30"

(SV 2708)
STA. 162+48.8, 41.0' LT.
EX. CI = 611.94
SEE SHEET 153

REPLACE I-2A-6 INLET
FRAME & COVER
(SV 2996)
STA. 162+51.9, 35.6' RT.
EX. CI = 612.89
SEE SHEET 153

(SV 2990)
STA. 162+65.9, 68.4' RT.
SEE SHEET 153

TMP

EX. 30" STM.

162+00.00
613.16

EX RR/W

ADJUST TO GRADE
(SV 2999)
STA. 162+02.6, 39.4' RT.
EX. SAN. MH=613.12
SEE SHEET 153

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 162+00.00 TO STA. 163+50.00

ERI-250-0.00

202
677

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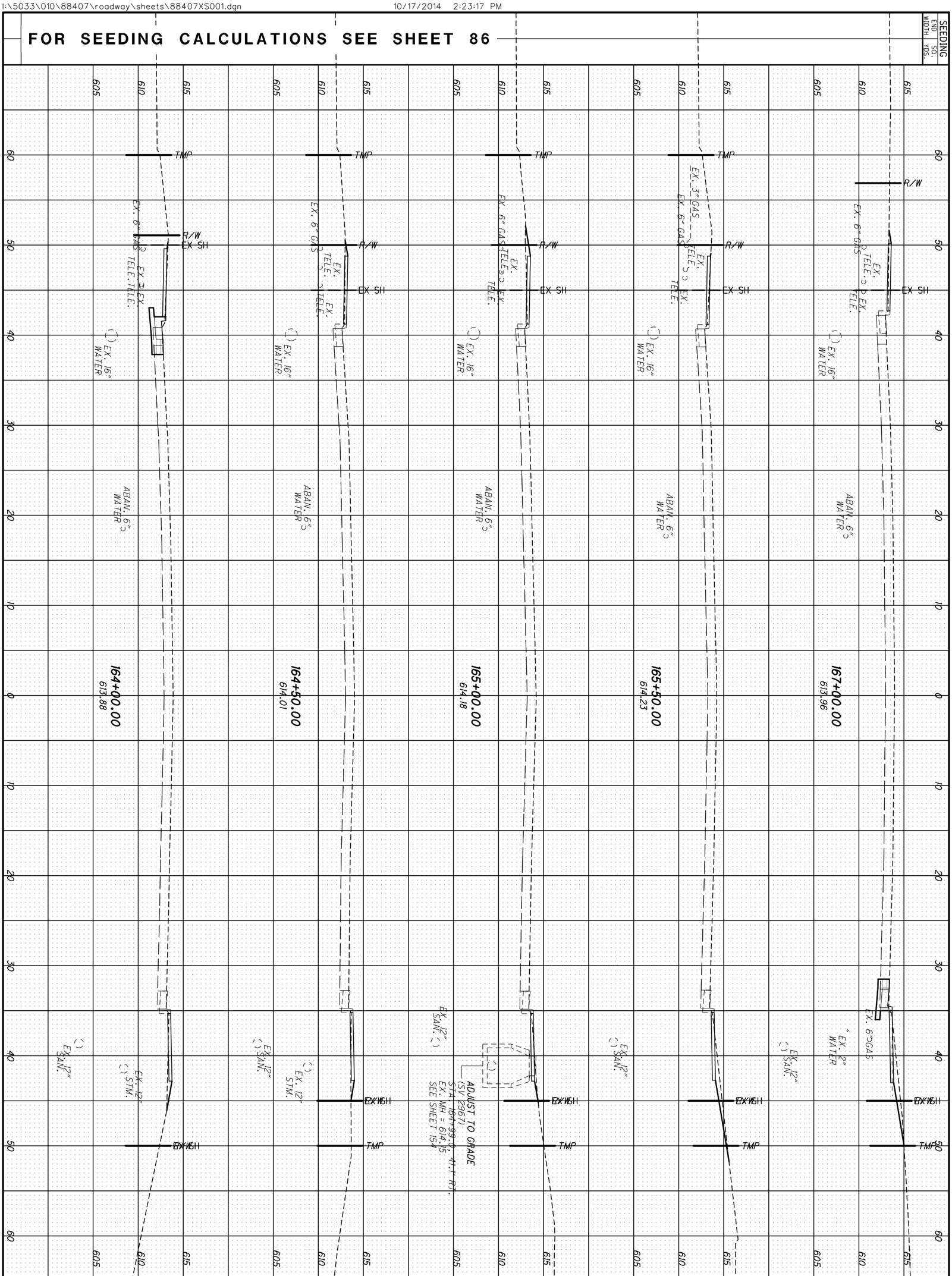
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

203
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 164+00.00 TO STA. 167+00.00

CALCULATED: JJ
CHECKED: GAB

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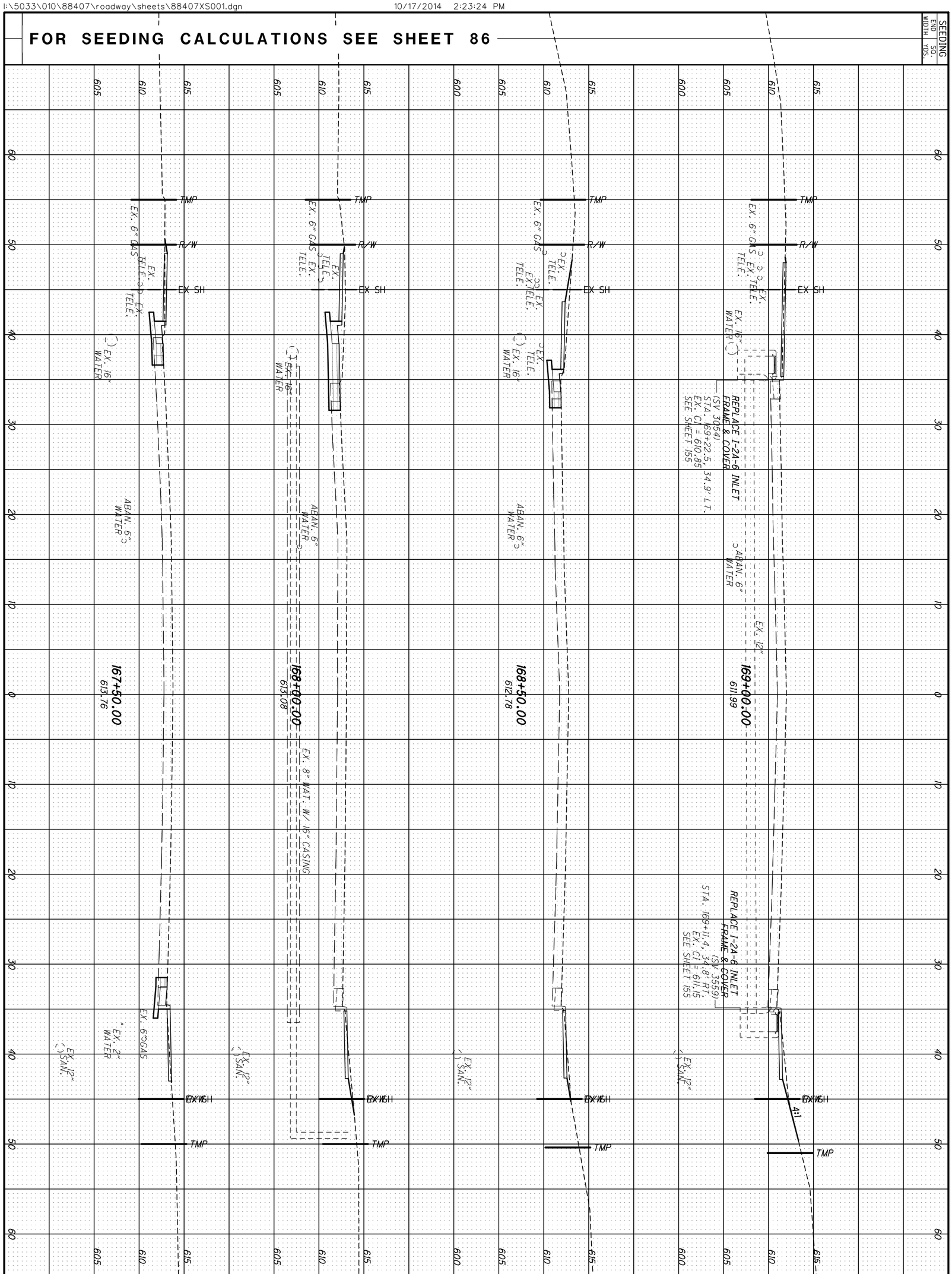
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

204 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 167+50.00 TO STA. 169+00.00	CALCULATED: JJ CHECKED: GAB

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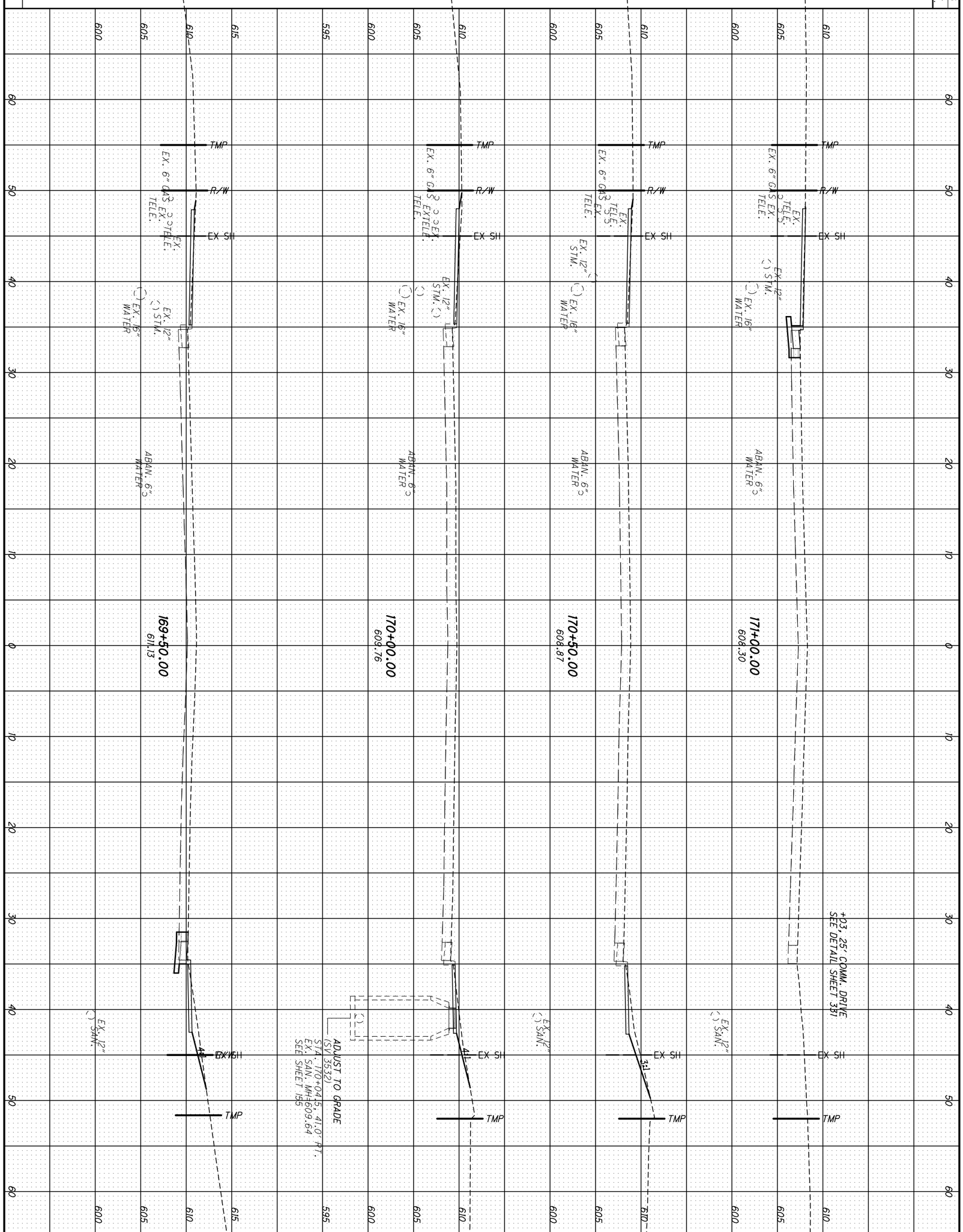
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END AREA, WIDTH, SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT, FILL — VOLUME: CUT, FILL

205
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 169+50.00 TO STA. 171+00.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

R/W

EX SH

610 605 600 595

D3 STA. 172+77.6, 43.3' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 155

ADJUST TO GRADE
(SV 3150)
STA. 172+57.01, 51.9' LT.
EX. MH = 606.87
SEE SHEET 155

EX. TELE.
33"
15"
12"B
18"
EX. 6" GAS

TO BE REMOVED
(SV 3153)
STA. 172+57.2, 40.1' LT.
EX. CB = 606.35
SEE SHEET 155

EX. 16" WATER

ABAN. 6" WATER

EX. 15"

172+50.00
607.45

ADJUST TO GRADE
(SV 3127)
STA. 172+33.6, 42.2' LT.
EX. MH=606.63
SEE SHEET 155

(SV 3438)
STA. 172+49.3, 34.9' RT.
EX. CI = 606.02
SEE SHEET 155

EX. 12" SAN.

+05, 27' COMM. DRIVE
SEE DETAIL SHEET 331

DRIVE, 172+12
SEE DETAIL SHEET 331

EX. 6" GAS
EX. TELE.
EX. TELE.

D2 STA. 172+09.2, 40.0' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 155

ABAN. 6" WATER

172+12.00
607.25

EX. 12" STM.

EX. 12" SAN.

+05, 27' COMM. DRIVE
SEE DETAIL SHEET 331

+12, 36' COMM. DRIVE
SEE DETAIL SHEET 331

CTV

EX. 6" GAS
EX. TELE.
EX. TELE.

EX. 16" WATER

TO BE REMOVED
(SV 3126)
STA. 172+09.1, 41.4' LT.
EX. CB=606.05
SEE SHEET 155

ABAN. 6" WATER

172+00.00
607.25

BUCKEYE UNDERGROUND
APPROX. LOCATION

D1 STA. 171+63.7, 45' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 155

EX. TELE.
EX. TELE.

EX. 6" GAS
@ 171+64±

EX. 16" WATER

TO BE REMOVED
(SV 3118)
STA. 171+73.3, 44.2' LT.
EX. CB=606.44
SEE SHEET 155

ABAN. 6" WATER

171+50.00
607.61

(SV 3448)
STA. 171+72.8, 35.2' RT.
EX. CI/MH=606.96
SEE SHEET 155

EX. 12" SAN.

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 171+50.00 TO STA. 172+50.00

ERI-250-0.00

206
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

R/W

EX SH

EX 16" H

TMP

610 605 600 595

6:1

+20, COMM. DRIVE
(RIGHT-IN/RIGHT-OUT)
SEE DETAIL SHEET 332

EX. 6" GAS

EX. TELE.

EX. 16" WATER

EX. 21" STM

ABAN. 6" WATER

174+20.00
609.00

EX. 12" SAN.

+20, COMM. DRIVE
(RIGHT-IN/RIGHT-OUT)
SEE DETAIL SHEET 332

EX. 6" GAS

EX. TELE.

EX. 16" WATER

ADJUST TO GRADE
(SV 3177)
STA. 173+73.3, 40.6' LT.
EX. MH=607.33
SEE SHEET 156

ABAN. 6" WATER

174+00.00
608.66

EX. 12" SAN.

D1 STA. 173+63.0, 40.5' LT
PROP. CB-3A, AS PER PLAN
SEE SHEET 156

EX. TELE.

EX. 6" GAS

TO BE REMOVED
(SV 3176)
STA. 173+66.4, 41.2' LT.
EX. CB = 607.01
SEE SHEET 156

EX. 16" WATER

ABAN. 6" WATER

173+50.00
607.98

ADJUST TO GRADE
(SV 3403)
STA. 173+56.44' 40.0' RT.
EX. SAN. MH=607.51
SEE SHEET 156

ADJUST TO GRADE
(SV 3156)
STA. 172+99.4, 52.2' LT.
EX MH= 606.9
SEE SHEET 155

TO BE REMOVED

EX. TELE.

EX. TELE.

EX. 15"

EX. 6" GAS

EX. 18"

PLUG

SV 3157
STA.137+07.3, 62.5' LT
SEE SHEET 156

STA. 173+13.3, 63.6' LT
SEE SHEET 156

EX. 16" WATER

TO BE REMOVED
(SV 3154)
STA. 172+98.2, 40.2' LT.
EX. CB = 606.28
SEE SHEET 155

ABAN. 6" WATER

173+00.00
607.65

EX. 60"

(SV 3410)
STA. 172+92.6, 35.1' RT.
EX. CI = 606.81
SEE SHEET 155

EX. 12" SAN.

SV 3419
STA. 173+01.9, 65.6' RT.
SEE SHEET 156

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 173+00.00 TO STA. 174+20.00

ERI-250-0.00

207
677

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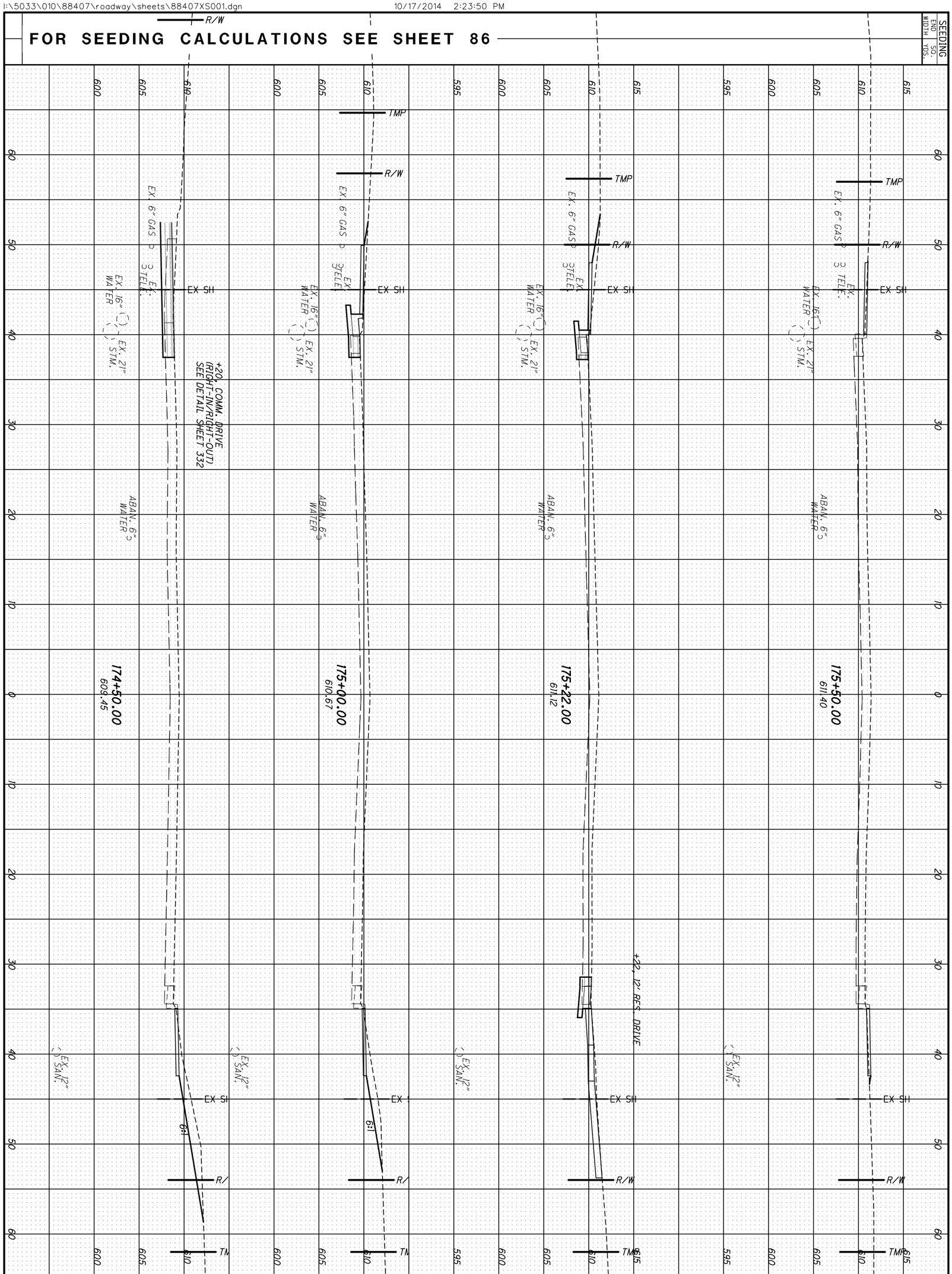
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA CUT | FILL
VOLUME CUT | FILL

208
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 174+50.00 TO STA. 175+50.00

CALCULATED JJ
CHECKED GAB

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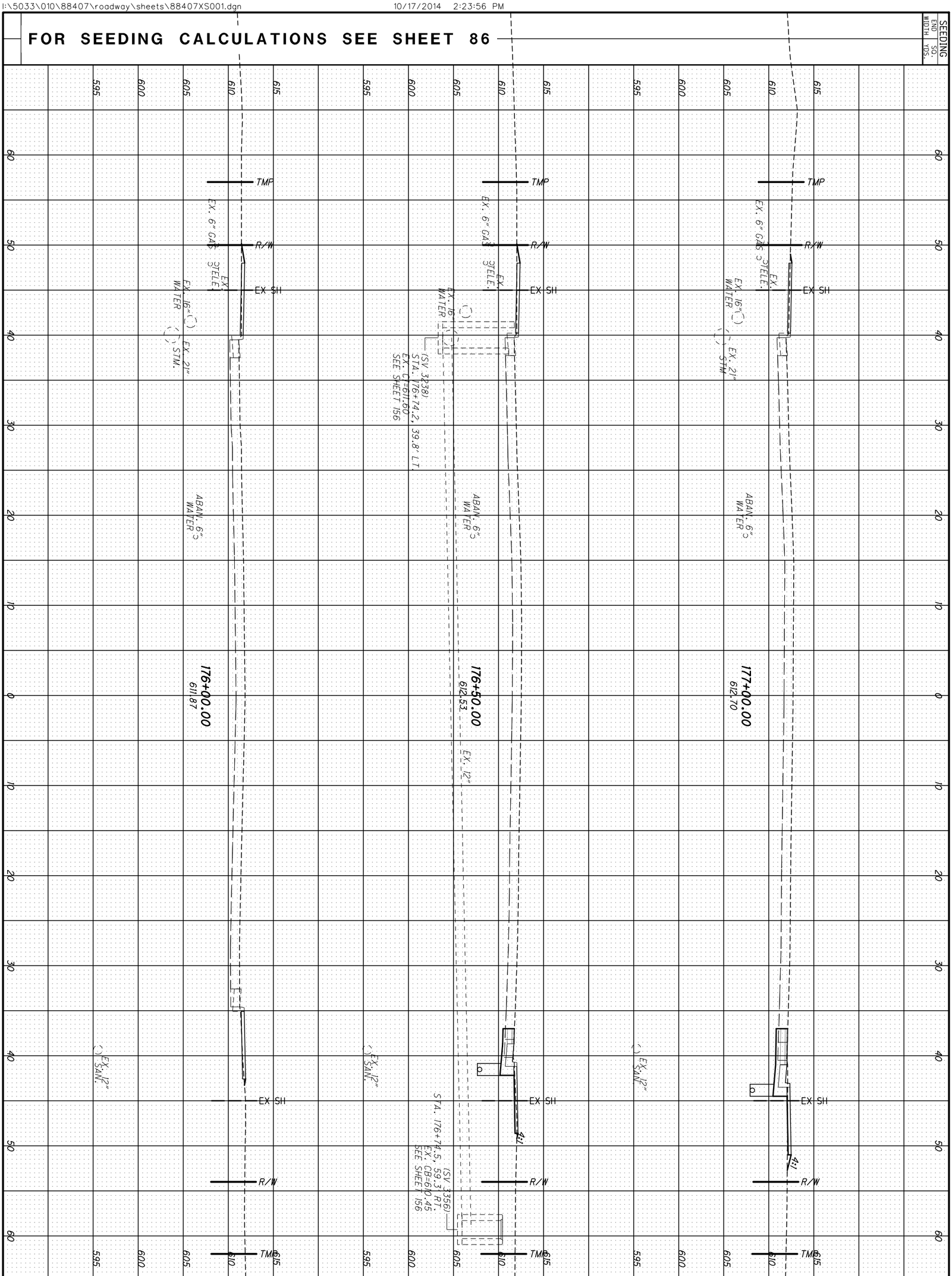
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

209
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 176+00.00 TO STA. 177+00.00

CALCULATED JJ
CHECKED GAB

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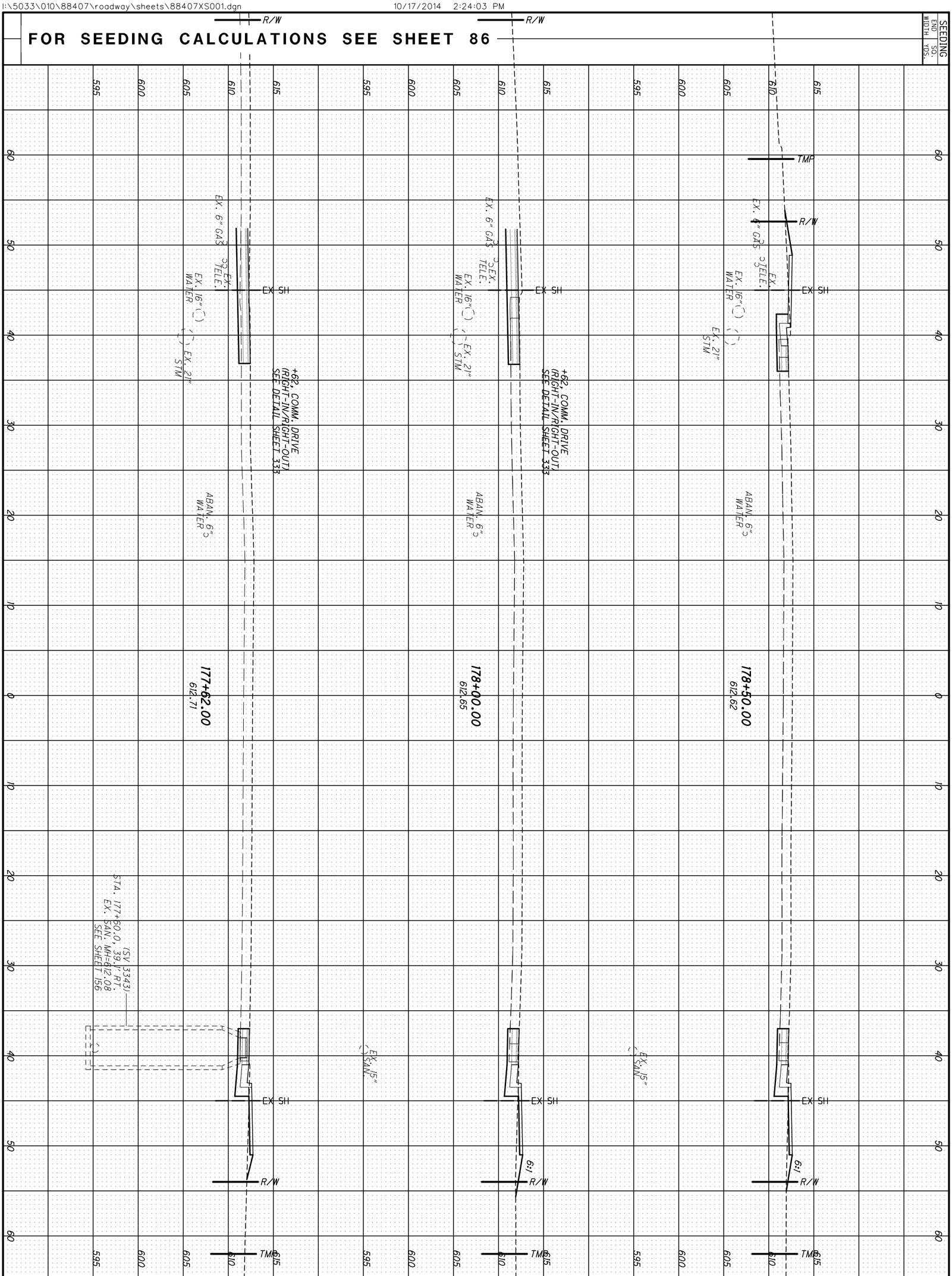
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

210/677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 177+62.00 TO STA. 178+50.00	CALCULATED: JJ CHECKED: GAB

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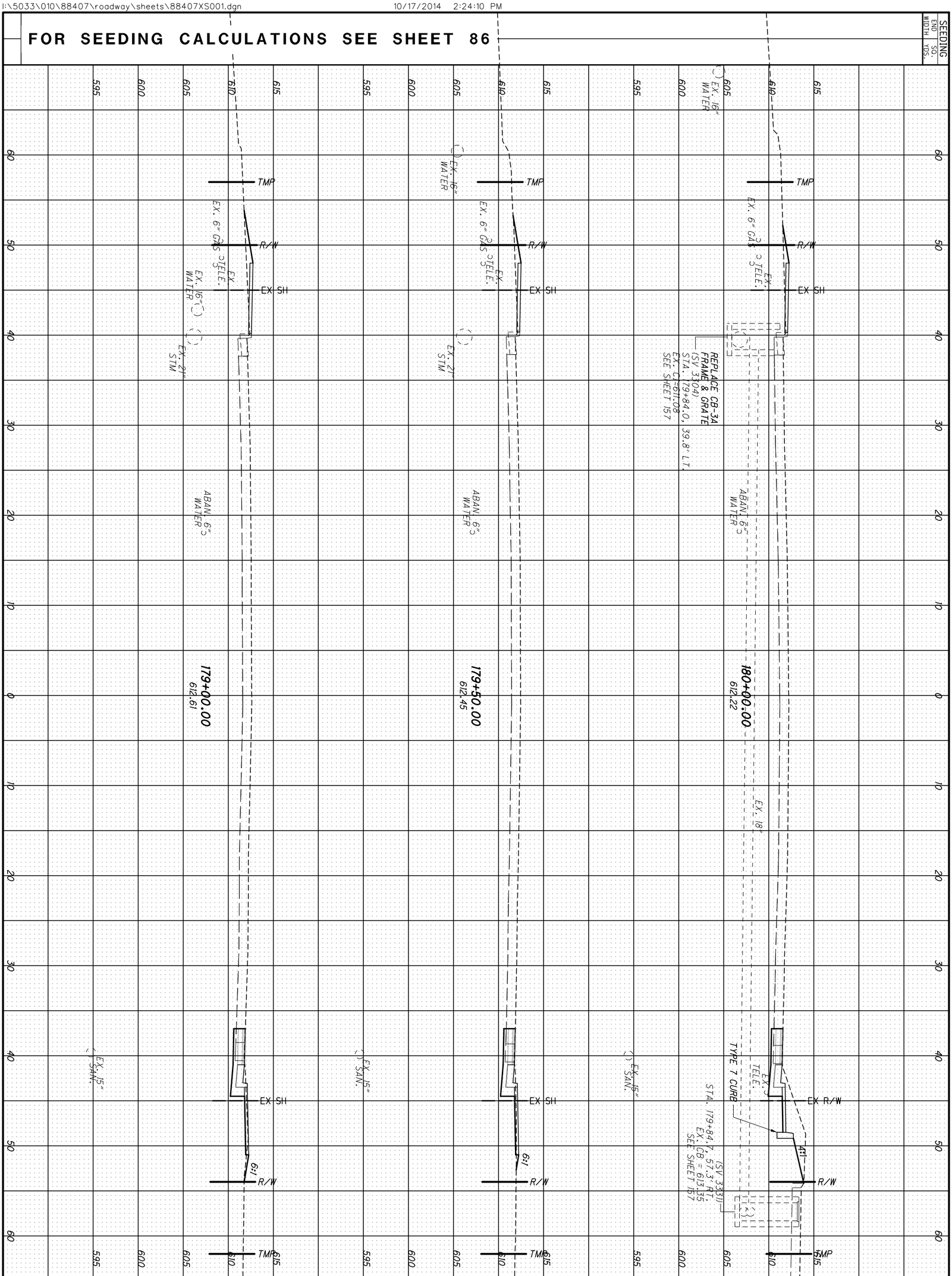
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 84

END AREA: CUT | FILL
VOLUME: CUT | FILL

211
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 179+00.00 TO STA. 180+00.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600 595

EX. SH
EX. R/W
R/W
TMP

D7 STA. 182+42.5, 42.7' LT
PROP. CB-3A, AS PER PLAN
SEE SHEET 157

EX. TELE.
EX. TELE.
EX. 6" GAS
EX. 16" WATER
12" WATER IN 24" STL. CASING PIPE
ABAN. 6" WATER

182+00.00
612.10

TO BE REMOVED
(SV 3727)
STA. 181+88.2, 47.1' RT.
EX. CI = 611.05
SEE SHEET 157

D6 STA. 182+06.5, 45.1' RT
PROP. CB-3A, AS PER PLAN
SEE SHEET 157

EX. 15" SAN.

+50, INTERSECTION
PARK PLACE NORTH DRIVE

D1 STA. 180+81.4, 40.1' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 157

EX. 6" GAS
EX. TELE.
12"B
EX. 16" WATER
EX. 12"
ABAN. 6" WATER

181+00.00
611.90

TO BE REMOVED
(SV 3318)
STA. 180+88.0, 39.7' LT.
EX. CI = 610.59
SEE SHEET 157

+50, INTERSECTION
CROSSINGS ROAD

TO BE REMOVED
(SV 3754)
STA. 180+92.9, 41.7' RT.
EX. CI = 610.47
SEE SHEET 157

12"B

TO BE REMOVED
(SV 3748)
STA. 181+09.6, 49.2' RT.
EX. CI = 610.58
SEE SHEET 157

D2 STA. 180+91.8, 53.7' RT
PROP. CB-3A, AS PER PLAN
SEE SHEET 157

D3 STA. 180+96.6, 58.9' RT
PROP. MH-3, AS PER PLAN
SEE SHEET 157

TO BE REMOVED
(SV 3762)
STA. 180+96.6, 58.9' RT.
EX. CB=613.84
SEE SHEET 157

EX. 15" SAN.

3:1

EX. TELE.
TYPE 7 CURB

EX. 6" GAS
EX. 6" WATER
EX. 18" STM
EX. UNKNOWN TYPE ABANDONED
ABAN. 6" WATER

180+50.00
611.98

EX. 12" STM

EX. 15" SAN.

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 84

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 180+50.00 TO STA. 182+00.00

ERI-250-0.00

212
677

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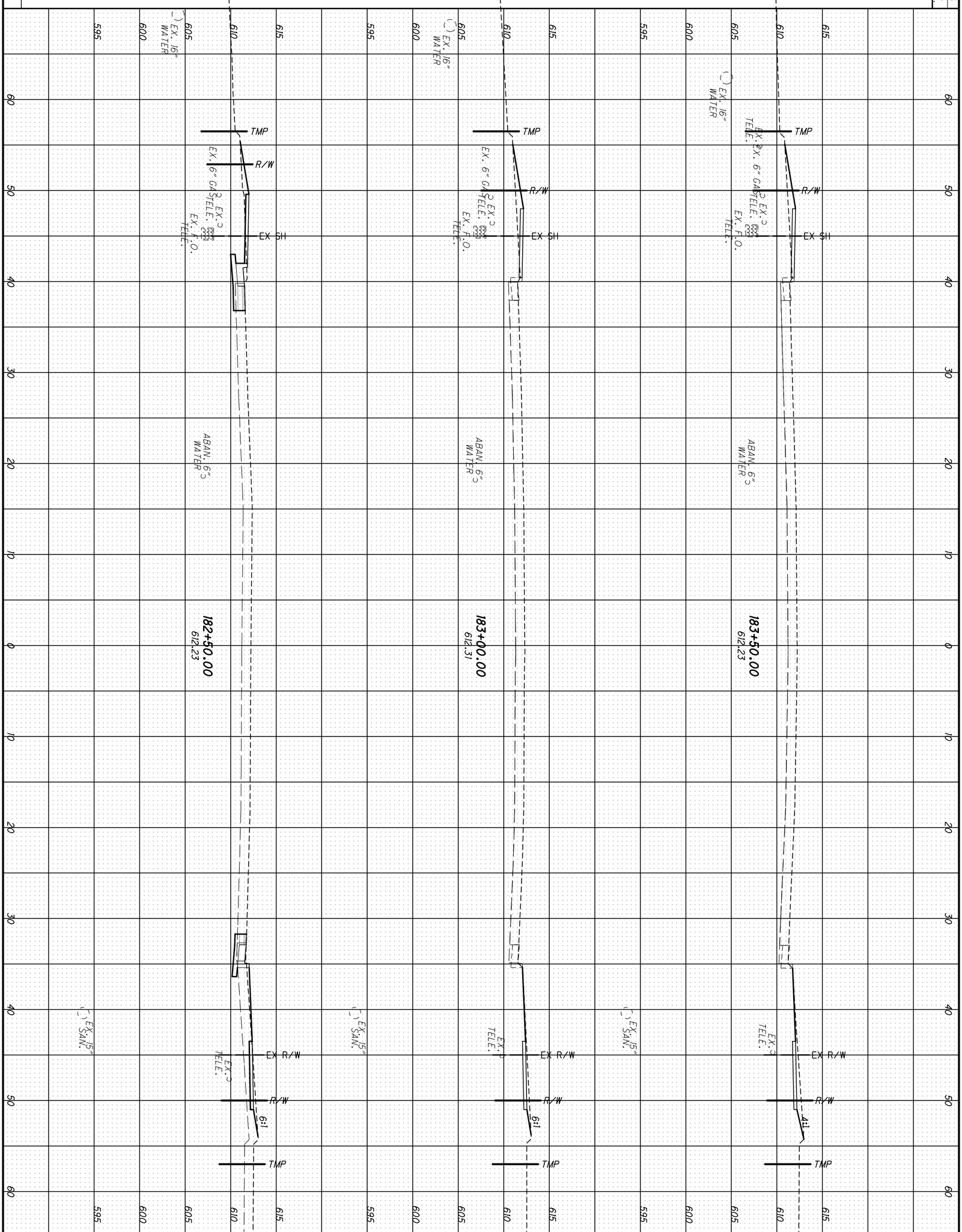
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



END AREA | VOLUME
CUT | FILL | CUT | FILL

FOR EARTHWORK CALCULATIONS SEE SHEET 85

213
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 182+50.00 TO STA. 183+50.00

CALCULATED JJ
CHECKED GAB

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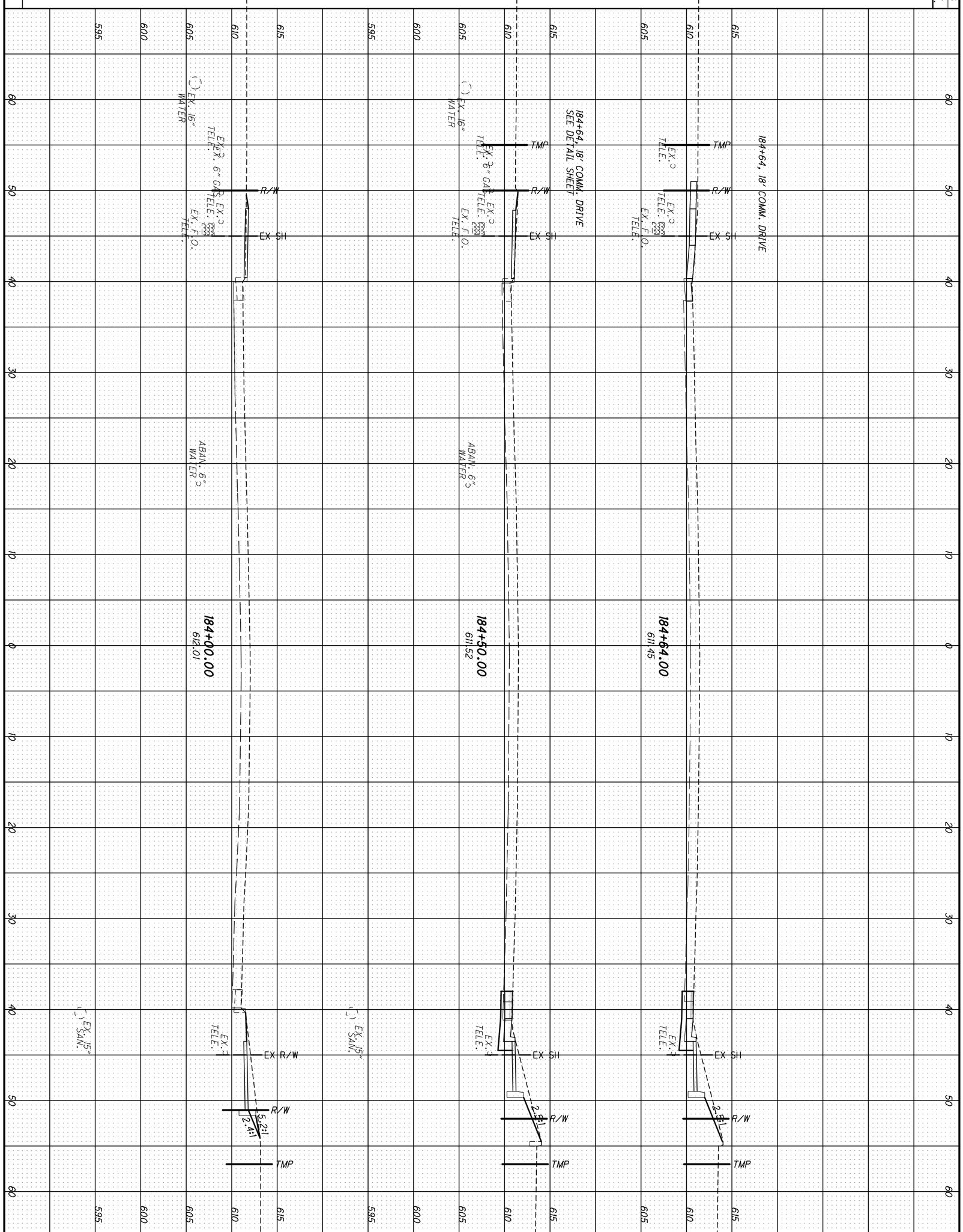
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

214 / 677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 184+00.00 TO STA. 184+64.31

CALCULATED: JJ
CHECKED: GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL — VOLUME: CUT | FILL

185+00.00
611.25

185+50.00
611.16

186+00.00
611.19

EX. 16" WATER
EX. TELE.
EX. 6" GAS
EX. F.O. TELE.
ABAN. 6" WATER
R/W
EX SH
TMP
(SV 3819) STA. 185+00.4, 40.3' RT. EX. SAN. MH = 610.38 SEE SHEET 158
(SV 3626) STA. 185+52.4, 29.9' RT. EX. SAN. MH = 610.4 SEE SHEET 158
(SV 3824) STA. 185+74.3, 39.8' LT. EX. CB = 609.77 SEE SHEET 157
EX. 12"
(SV 3824) STA. 185+74.5, 41.8' RT. EX. CB = 609.66 SEE SHEET 157
12"B TO BE REMOVED
(D1) STA. 185+74.5, 43.0' RT PROP CB-34, AS PER PLAN SEE SHEET 158
(SV 3604) STA. 186+28.5, 29.4' RT. EX. SAN. MH = 610.26 SEE SHEET 158
EX. 18" STM.
4:1
2:1
1.6:1

215 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 185+00.00 TO STA. 186+00.00	CALCULATED: JJ CHECKED: GAB

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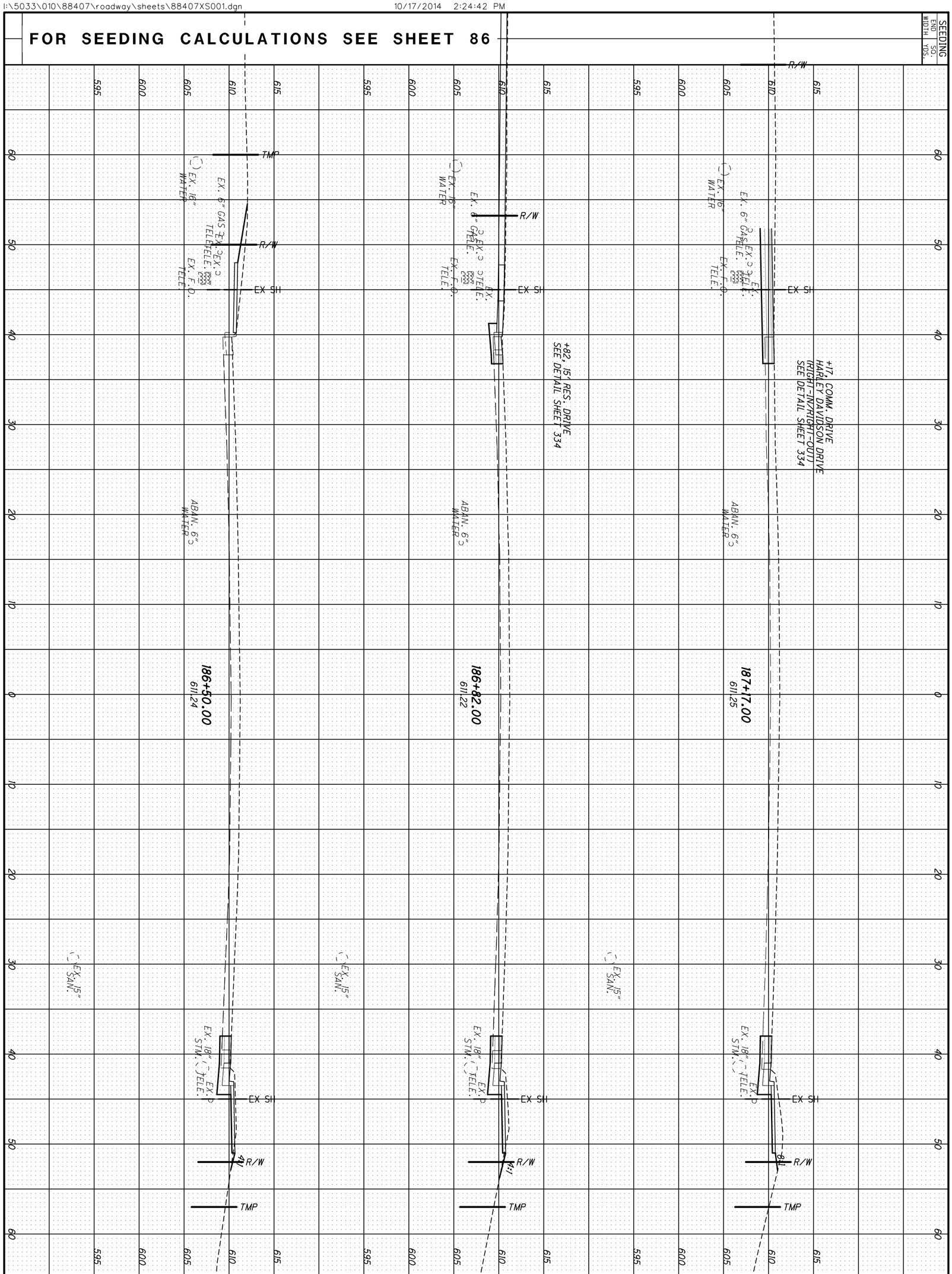
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

216 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 186+50.00 TO STA. 187+17.00	CALCULATED: JJ CHECKED: GAB

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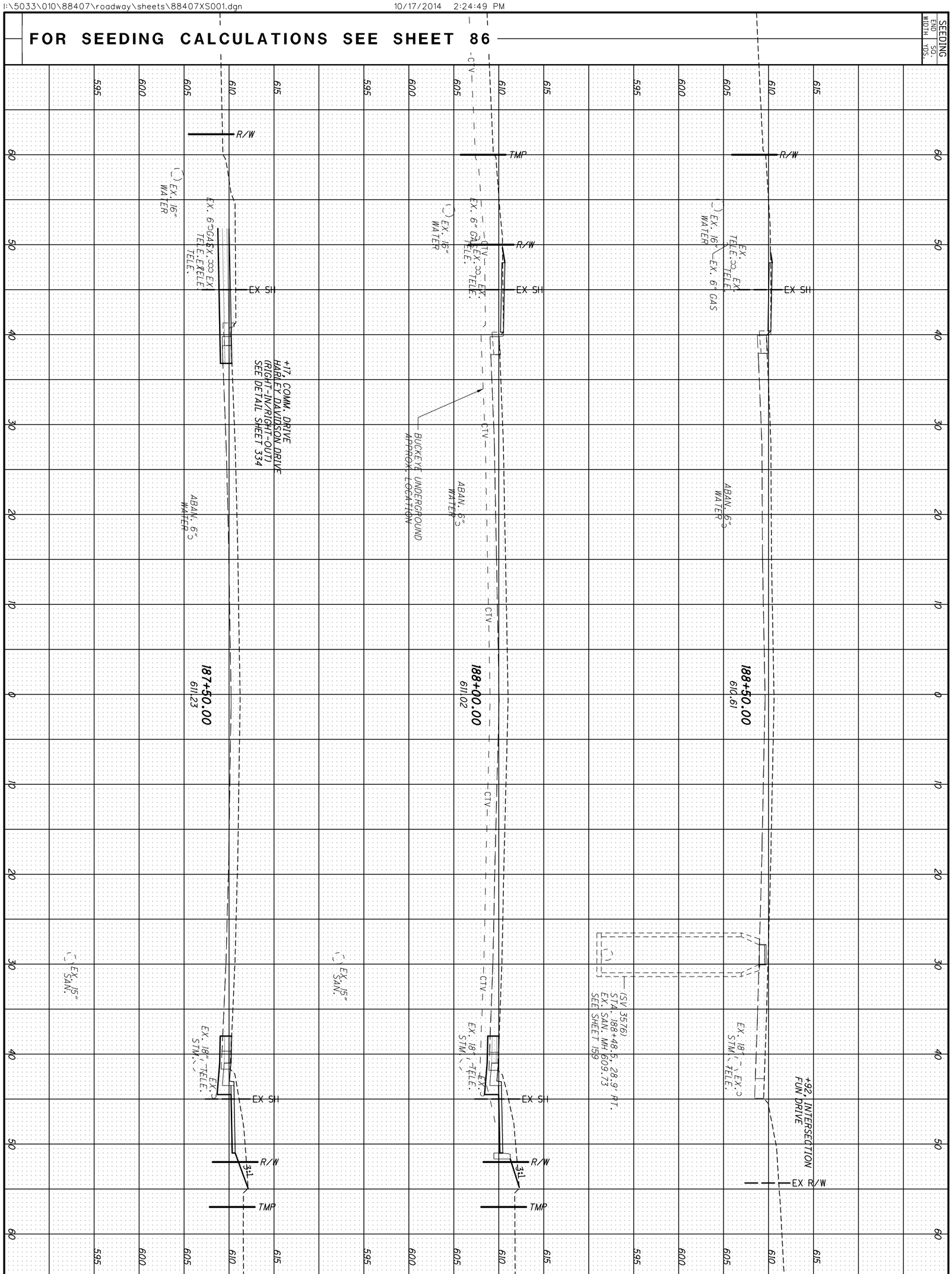
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

217 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 187+50.00 TO STA. 188+50.00	CALCULATED: JJ CHECKED: GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600 595

EX. 16" WATER

R/W EX. 6" GAS EX. TELE. EX SH EX. TELE.

ABAN. 6" WATER

190+00.00
610.72

EX. TELE. EX. TELE. EX SH TMP

ADJUST TO GRADE
(SV 4404)
STA. 190+35.1, 39.4' RT.
EX. MH = 610.38
SEE SHEET 159

EX. 15" SAN.

R/W R/W EX SH

D2 STA. 189+45.0, 40.0' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 159

EX. TELE. EX. TELE. EX. 6" GAS

ABAN. 6" WATER

189+50.00
610.55

EX. 24" STM

EX. TELE. EX. TELE. EX R/W TMP

ADJUST TO GRADE
(SV 4152)
STA. 189+21.9, 61.9' RT.
EX. MH = 609.83
SEE SHEET 159

EX. 6" WATER

EX. 15" SAN.

LIMITS OF PLANNING & RESURFACING

R/W EX SH

+92, 37' COMM. DRIVE
SEE DEDAIL SHEET 335

+92, INTERSECTION
FUN DRIVE

12"B

EX. 6" GAS EX. EX TELE. TELE.

(SV 3951)
STA. 189+15.1, 40.0' LT.
EX. CB = 609.33
SEE SHEET 159

EX. 12"

ABAN. 6" WATER

188+92.00
610.56

EX. TELE.

EX. MH
STA. 189+13.7, 40.9' RT.
T/RIM= 609.5±
SEE SHEET 159

D1 STA. 189+15.1, 40.0' LT
PROP. MH-3, AS PER PLAN
SEE SHEET 159

EX. 16" WATER

EX. 15" SAN.

60 50 40 30 20 10 0 10 20 30 40 50 60

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 188+92.00 TO STA. 190+00.00

ERI-250-0.00

218
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

219 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 190+50.00 TO STA. 191+00.00	CALCULATED: JJ CHECKED: GAB

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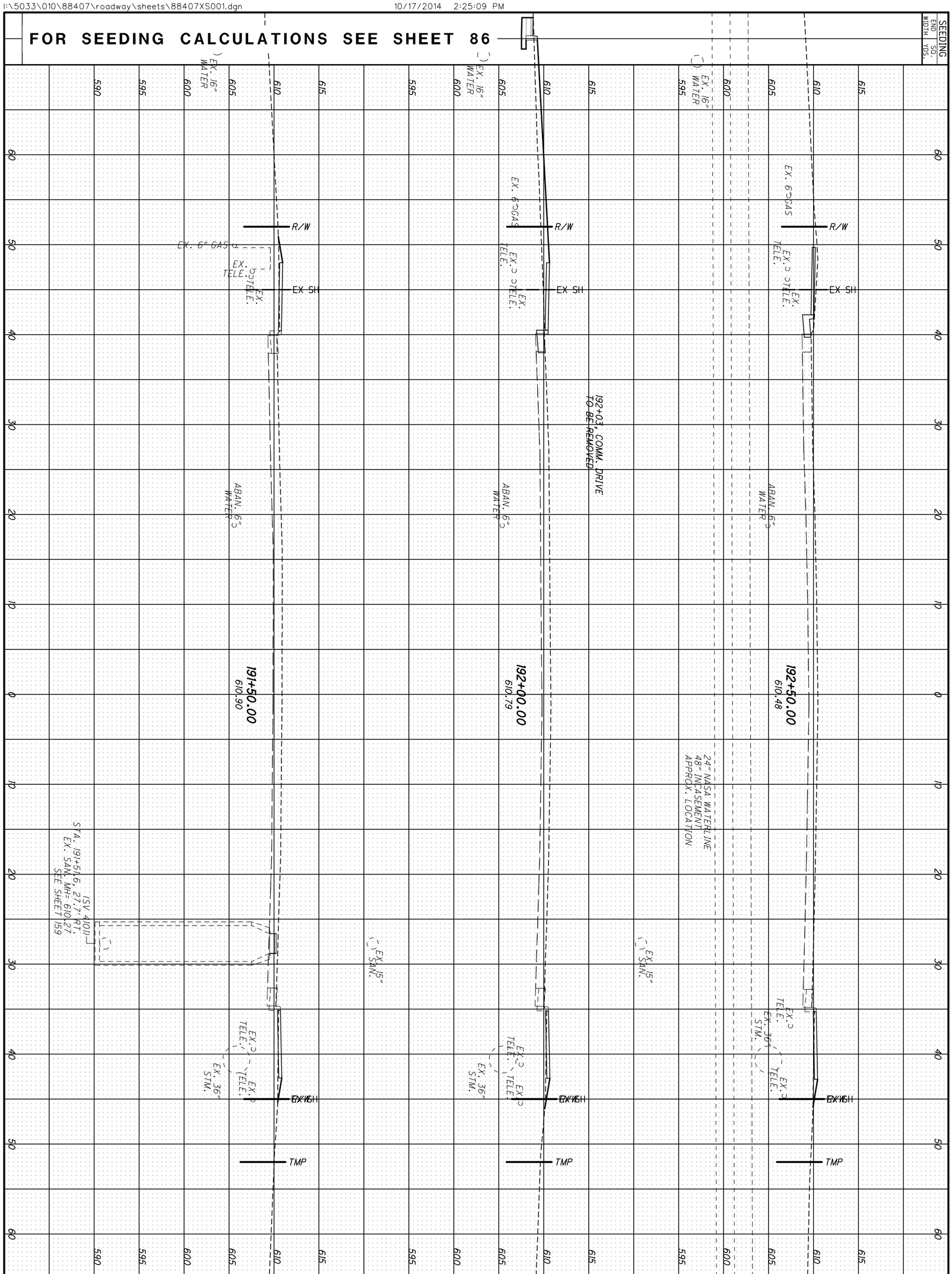
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

220 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 191+50.00 TO STA. 192+50.00	CALCULATED JJ CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 605 600 595 590 615

+84, 32' COMM. DRIVE REMOVED

193+81, COMM. DRIVE RECONSTRUCT SEE DETAIL SHEET 336

TMP R/W EX SH

EX. 6"ɔGAS

EX. TELE.

EX. TELE.

EX. TELE.

EX. 16" WATER

ABAN. 6"ɔ WATER

D1 STA. 193+85.4, 40.0' LT PROP. CB-3, AS PER PLAN SEE SHEET 160

193+84.00
609.31

EX. TELE.

EX. TELE.

EX. 36" STM.

EX. 15" SAN.

TMP R/W EX SH

EX. 6"ɔGAS

EX. TELE.

EX. TELE.

EX. TELE.

EX. 16" WATER

ABAN. 6"ɔ WATER

193+50.00
609.54

EX. TELE.

EX. TELE.

EX. 36" STM.

EX. 15" SAN.

+92, COMM. DRIVE RECONSTRUCT SEE DETAIL SHEET 336

R/W EX SH EX SH TMP

EX. 6"ɔGAS

EX. TELE.

EX. TELE.

EX. 16" WATER

ABAN. 6"ɔ WATER

192+94.00
610.15

EX. TELE.

EX. TELE.

EX. 36" STM.

EX. 15" SAN.

EX. 15" SAN.

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 192+94.00 TO STA. 193+84.00

ERI-250-0.00

221
677

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SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 605 600 595 590

+57, INTERSECTION
PARK PLACE SOUTH DRIVE

195+00.00
608.21

194+50.00
608.67

194+00.00
609.22

EX. 6"GAS
EX. TELE.
EX. 16" WATER
EX. 15" STM.
ABAN. 6" WATER
EX. 36" STM.
EX. 15" SAN.
12"B
EX. SH
R/W
TMP
CTV

BUCKEYE UNDERGROUND
APPROX. LOCATION

TO BE REMOVED
(SV 4222)
STA. 194+56.2, 39.9' LT.
EX. CB = 607.51
SEE SHEET 160

(SV 4065)
STA. 194+48.2, 27.9' RT.
EX. SAN. MH=607.93
SEE SHEET 160

D2 STA. 194+54.4, 35.0' RT
PROP CB-3, AS PER PLAN
SEE SHEET 160

D3 STA. 194+54.4, 40.9' RT
PROP. MH-3, AS PER PLAN
SEE SHEET 160

D6 STA. 194+60.5, 35.0' RT
PROP CB-3, AS PER PLAN
SEE SHEET 160

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 194+00.00 TO STA. 195+00.00

ERI-250-0.00

222
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 195+50.00 TO STA. 196+50.00

223 / 677

CALCULATED: JJ
CHECKED: GAB

SEEDING
END WIDTH | SQ. YDS.

END AREA CUT | FILL
VOLUME CUT | FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 605 600 595 590

+62, 34' COMM. DRIVE
SEE DETAIL SHEET 337

D8 STA. 198+37.0, 65.6' RT
PROP CB-3A, AS PER PLAN
SEE SHEET 161

D5 STA. 198+26.6, 51.3' RT
PROP MH-3, AS PER PLAN
SEE SHEET 161

EX. 6"ϽGAS
EX. 16" WATER
EX. 36" STM.
ABAN. 6"Ͻ WATER

198+50.00
606.91

EX. 12" STM.
12"B

TO BE REMOVED
(SV 4528)
STA. 198+26.6, 51.0' RT.
EX. CB = 606.26
SEE SHEET 161

TO BE REMOVED
(SV 4514)
STA. 198+25.6, 67.0' RT.
EX. CB = 605.79
SEE SHEET 161

EX SH

+13, INTERSECTION
RAMADA STREET

EX. 6"ϽGAS
EX. 36" STM.
ABAN. 6"Ͻ WATER
EX.Ͻ TELE.

198+00.00
606.95

EX.Ͻ TELE.
EX.Ͻ TELE.

D1 STA. 197+43.6, 44.0' RT
PROP. CB-3A, AS PER PLAN
SEE SHEET 161

D2 STA. 197+53.0, 48.2' RT
PROP. MH-3 W/ 72" BASE I.D.,
AS PER PLAN, SEE SHEET 161

STA. 197+62.0, 28.4' RT.
EX SAN MH= 606.17
SEE SHEET 161

R/W
EX SH
EX. TELE.
EX.Ͻ TELE.
EX. 16" WATER
EX. 6"ϽGAS
Overflow

EX. 36" STM.

197+50.00
606.80

6"B
36"B
EX. TELE
EX. TELE.

(SV 4285)
STA. 197+68.1, 68.8' LT.
EX. SAN. MH=606.43
SEE SHEET 161

ADJUST TO GRADE
(SV 427)
STA. 197+30.3, 44.2' LT.
EX. MH= 606.84
SEE SHEET 161

ABAN. 6"Ͻ WATER

TO BE REMOVED
(SV 4502)
STA. 197+53.0, 48.2' RT.
EX. CB = 605.48
SEE SHEET 161

R/W
EX SH
EX. 6"ϽGAS
EX.Ͻ TELE.
EX.Ͻ TELE.
EX. 16" WATER
EX. 36" STM.
ABAN. 6"Ͻ WATER

197+00.00
606.93

EX.Ͻ TELE.
EX.Ͻ TELE.
EX. 15" SAN.

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 197+00.00 TO STA. 198+50.00

ERI-250-0.00

224
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 605 600 595

EX LA

EX. 6" GAS

EX. 36" STM.

EX. 16" WATER

ABAN. 6" WATER

200+50.00
606.78

EX SH

EX. 6" GAS

(SV 4838)
STA. 200+13.4, 62.1' LT.
EX. CB = 604.88
SEE SHEET 161

EX. 16" WATER

ABAN. 6" WATER

200+00.00
606.57

+67, COMM. DRIVE
SEE DETAIL SHEET 337

9 STA. 199+80.5, 66.4' LT.
PROP CB-3A, AS PER PLAN
T/GRATE = 605.30
SEE SHEET 161

EX SH

5'-12" B

EX. 12" STM.

EX. 16" WATER

EX. 36" STM.

ABAN. 6" WATER

199+50.00
606.65

TO BE REMOVED
(SV 4857)
STA. 199+81.6, 66.4' LT.
EX./ CB = 605.24
SEE SHEET 161

EX SH

EX. 6" GAS

EX. 16" WATER

EX. 36" STM.

ABAN. 6" WATER

199+00.00
606.79

ADJUST TO GRADE
(SV 4553)
STA. 198+74.8, 40.1' LT.
EX. MH = 606.37
SEE SHEET 161

+62, 34' COMM. DRIVE
SEE DETAIL SHEET 337

EX. 6" GAS

EX. 16" WATER

ABAN. 6" WATER

198+62.00
606.87

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 198+60.59 TO STA. 200+50.00

ERI-250-0.00

225
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

EX LA

STA. 201+92.8, 80.6' LT
PROP. HW-2.1/2.2
SEE SHEET 162

STA. 201+83.1, 47.1' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 162

TO BE REMOVED
(SV 4852)
STA. 201+82.1, 45.1' LT.
EX. CL = 605.36
SEE SHEET 162

EXIST. 76"X48" CUL VERT

58.50LT
604.46

EX. 6"GAS

ABAN. 6" WATER

EX. 16" WATER

ABAN. 6" WATER

EX. 6"GAS ABAN. 6" WATER

EX. 16" WATER

(SV 4828)
STA. 201+25.6, 62.7' LT.
EX. CB - 605.15
SEE SHEET 161

(SV 4828)
STA. 201+25.6, 62.7' LT.
EX. CB - 605.15
SEE SHEET 162

EX. 16" WATER

ABAN. 6" WATER

EX. 16" WATER

ABAN. 6" WATER

201+00.00
606.63

201+50.00
606.58

202+00.00
606.43

203+50.00
605.94

18"Ø

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

226 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 201+00.00 TO STA. 203+50.00	CALCULATED JJ CHECKED GAB

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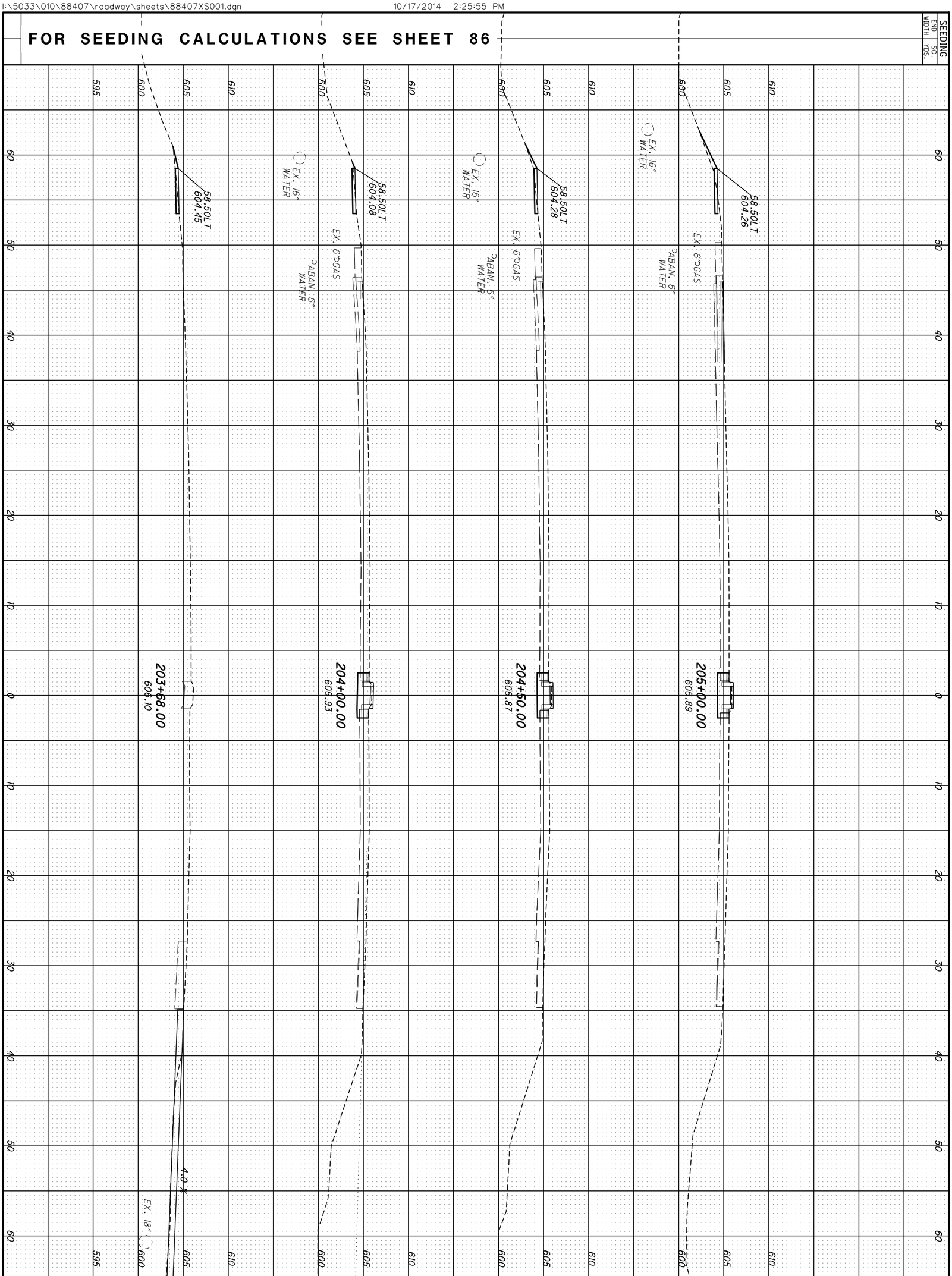
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

227
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 203+68.00 TO STA. 205+00.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 605 600 595

58.50LT
606.49
3:1
EX. 16" WATER
ABAN. 6" WATER
EX. 6" GAS
207+00.00
605.57

58.50LT
604.02
EX. 6" GAS
ABAN. 6" WATER
EX. 16" WATER
206+50.00
605.61

58.50LT
604.22
EX. 6" GAS
ABAN. 6" WATER
EX. 16" WATER
206+00.00
605.76

58.50LT
604.24
EX. 6" GAS
ABAN. 6" WATER
EX. 16" WATER
205+50.00
605.87

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD) STA. 205+50.00 TO STA. 207+00.00

ERI-250-0.00

228
677

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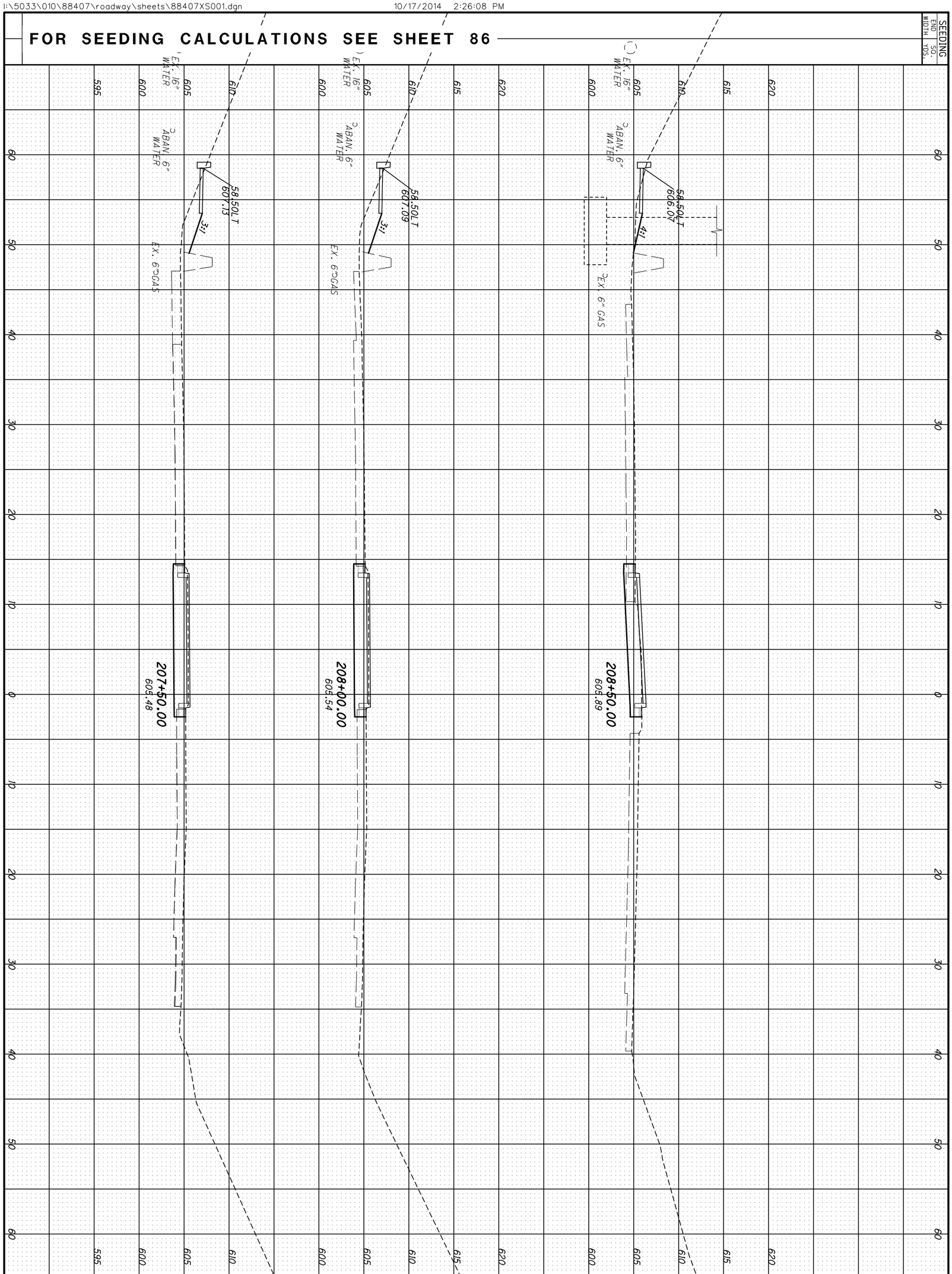
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA
CUT | FILL

VOLUME
CUT | FILL

229
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 207+50.00 TO STA. 208+50.00

CALCULATED JJ
CHECKED GAB

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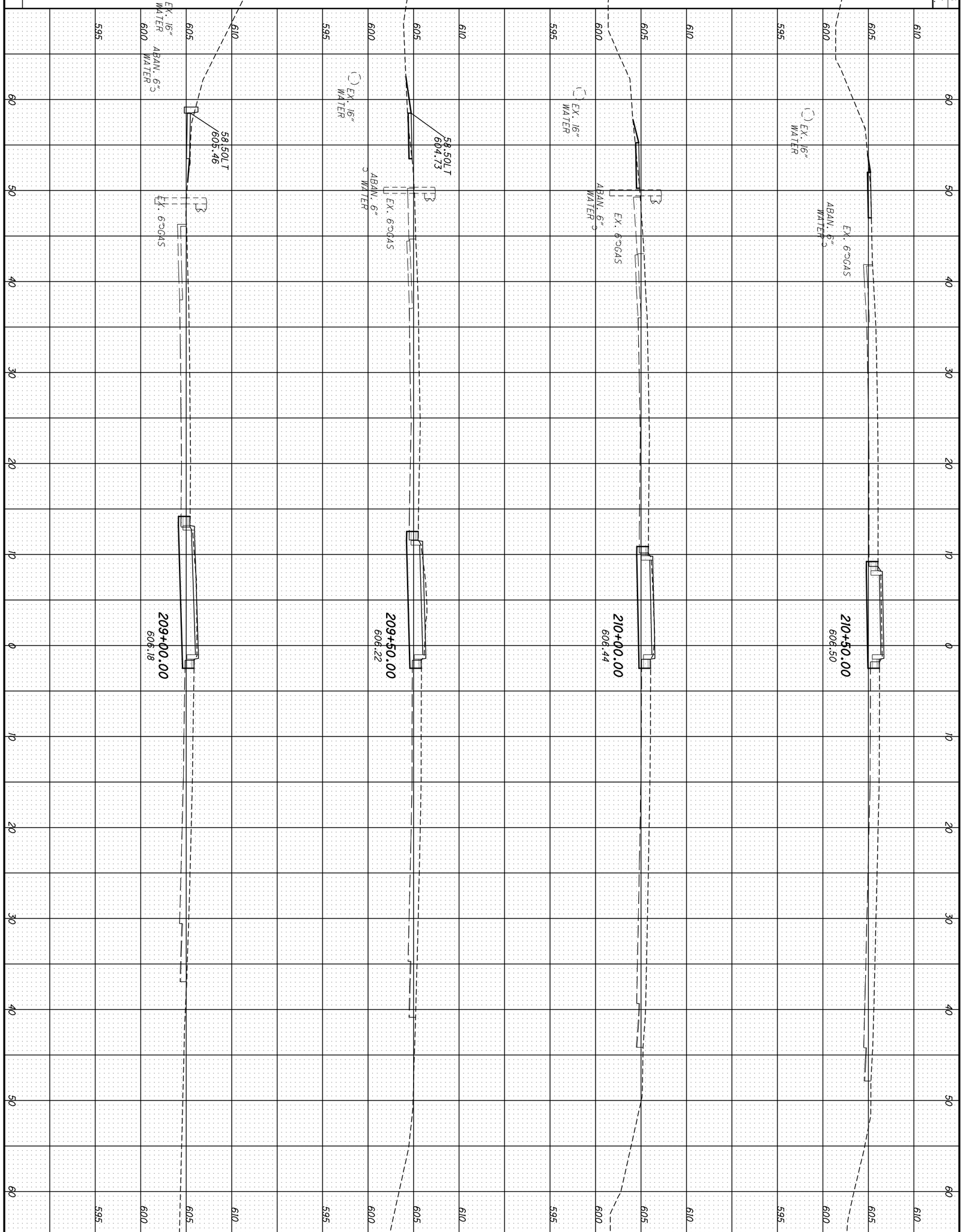
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA | CUT | FILL
VOLUME | CUT | FILL

230 / 677	ERI-250-0.00	CROSS SECTIONS US-250 (MILAN ROAD) STA. 209+00.00 TO STA. 210+50.00	CALCULATED JJ CHECKED GAB

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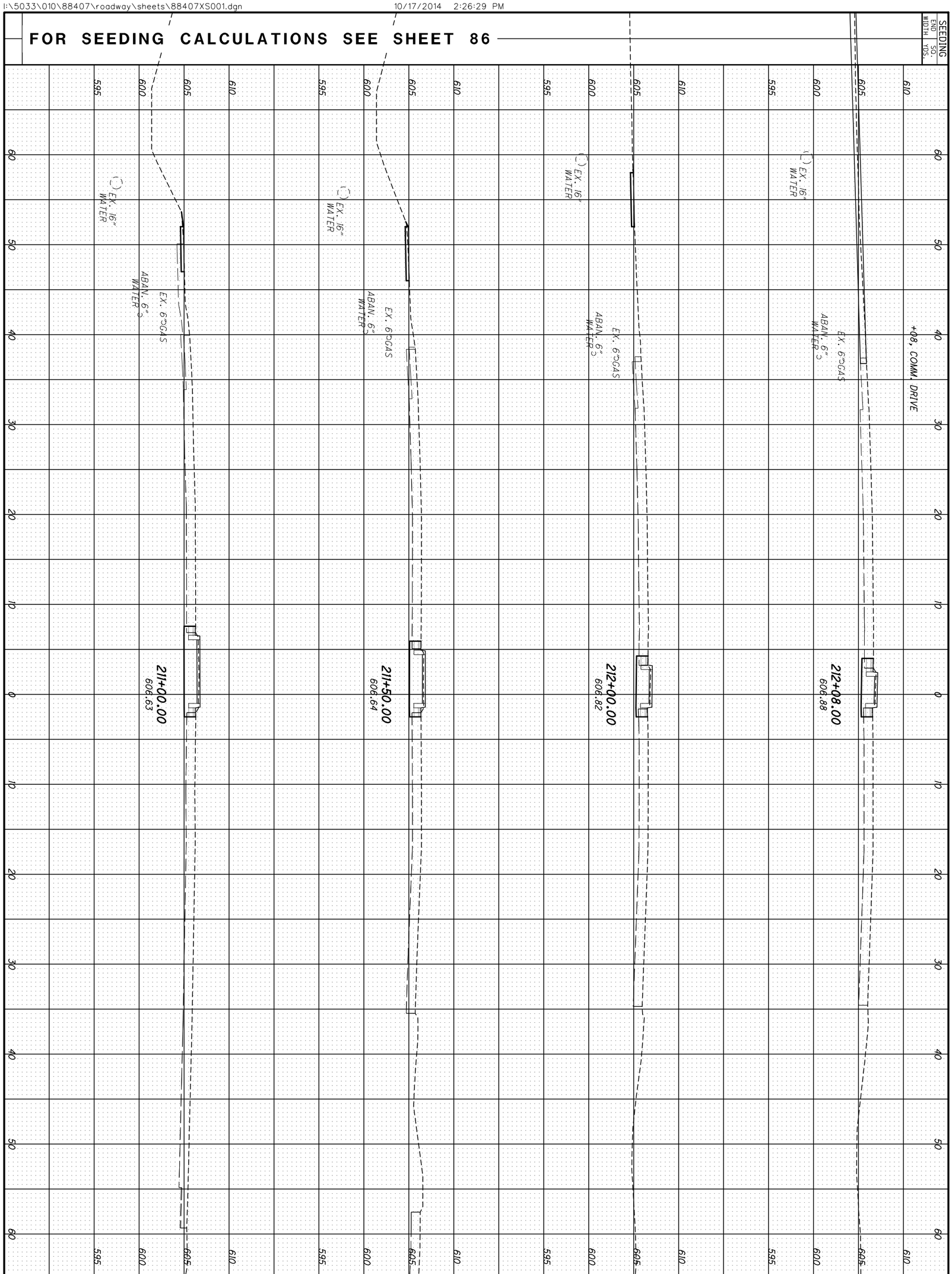
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH
SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA
CUT
FILL

VOLUME
CUT
FILL

231
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 211+00.00 TO STA. 212+08.00

CALCULATED
JJ

CHECKED
GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610
605
600
595

EX SH

214+50.00
607.70

214+00.00
607.41

213+50.00
607.59

212+50.00
606.97

EX LA

4:1

EX. 6"GAS

ABAN. 6" WATER

EX. 16" WATER

D1 STA. 213+49.2, 39.0' LT
PROP. MH-3, AS PER PLAN
SEE SHEET 164

D2 STA. 213+67.0, 40.4' LT
PROP. I-2A-6, AS PER PLAN
SEE SHEET 164

D3 STA. 213+29.1, 90.4' LT
PROP HW-2.1/2.2
SEE SHEET 164

D4 STA. 213+68.4, 38.9' RT
PROP. I-2A-8, AS PER PLAN
SEE SHEET 164

6'-24"B

EX. 24" STM.

55'-30"B @0.50%

12"

12"B

TO BE REMOVED
(SV 4921)
STA. 213+66.8, 35.9 RT.
EX. CI = 606.64
SEE SHEET 164

EX. 6" GAS

(SV90318)
STA. 213+49.35, 57.73' LT.
SEE SHEET 164

FOR SEEDING CALCULATIONS SEE SHEET 86 — FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 212+50.00 TO STA. 214+50.00

ERI-250-0.00

232
677

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SEEDING

END WIDTH	SQ. YDS.

END AREA

CUT	FILL

VOLUME

CUT	FILL

CALCULATED JJ

CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 / 605 / 600 / 615

TWP

EX SH

SAW CUT

PAVEMENT REMOVED

EX. 16" WATER

ABAN. 6" WATER

217+00.00
608.43

+09, DRIVE REMOVED

PAVEMENT REMOVED

609.7 59.2RT

7:1

CTV

EX. 6" GAS

EX. 2" WATER

BUCKEYE UNDERGROUND APPROX. LOCATION

+41, 28' COMM. DRIVE RECONSTRUCT SEE DETAIL SHEET 338

216+50.00
608.36

+40, DRIVE

+40, DRIVE RECONSTRUCT SEE DETAIL SHEET 338

0.02

0.10

216+40.00
608.34

610.8 81.7' RT.

10'V.C.

0.03

LA

6:1

216+00.00
608.28

215+50.00
608.03

+18, 30' COMM. DRIVE NO WORK

215+00.00
607.86

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 215+00.00 TO STA. 217+00.00

ERI-250-0.00

233
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610
605
600

DO NOT DISTURB EXIST. GUARDRAIL
EX SH
TMP
EX. 16" WATER
ABAN. 6" WATER
EX. 6" GAS
6:1
218+50.00
608.17

SAW CUT
PAVEMENT REMOVED
+90, COMM. DRIVE RECONSTRUCT SEE DETAIL SHEET 338
607.55
43° RT.
0.08
608.7±
53.4' RT
EX. 2" WATER
217+90.00
608.27

+79, 35' COMM. DRIVE REMOVED
+90, COMM. DRIVE
217+79.00
608.31

PAVEMENT REMOVED
6:1
217+50.00
608.43

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 217+50.00 TO STA. 218+50.00

ERI-250-0.00

234
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

610 605 600 595

TMP
EX SH

608.05
35.50' LT

607.78
35.4' RT

DO NOT DISTURB
EXIST. GUARDRAIL

ABAN. 6" WATER
EX. 16" WATER
EX. 18" STM.
EX. 6" GAS

220+00.00
608.27
BEGIN SUPERELEVATION

+39, 25' COMM. DRIVE

0.02

EX. 4" WATER
ABAN. 6" WATER

219+50.00
608.00

REPLACE T-2A-6 FRAME & COVER
(SV 5110)
STA. 219+26.7, 34.9' RT.
EX. CI = 607.42
SEE SHEET 165

6:1

219+39.00
607.98

STA. 219+08.5
13.5'x8' BOX CULVERT TOP= 606.00

EX. 16" WATER

(SV 5224)
STA. 218+93.9, 35.1' LT.
EX. CI = 606.50
SEE SHEET 165

219+00.00
607.98

13.5'x8' BOX CULVERT

(SV 5109)
STA. 218+94.7, 34.8' RT.
EX. CI = 606.75
SEE SHEET 165

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 219+00.00 TO STA. 220+00.00

ERI-250-0.00

235
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600

EX SH

609.86
35.50' LT

609.55
0.00' RT

+77, 35' COMM. DRIVE
608.87
33.00' RT

EX SH

TMP

EX. 6"ɔGAS

ABAN. 6"ɔ WATER

221+00.00
609.49

EX. 16" WATER

RECONSTRUCT TO GRADE
(SV 5144)
STA. 221+28.0, 34.9' RT.
EX. CI = 609.10
SEE SHEET 166

+77, 35' COMM. DRIVE
RECONSTRUCT
SEE DETAIL SHEET 339

EX SH

609.45
35.50' LT

609.26
0.00' RT

608.54
35.50' RT

608.69
43.00' RT

608.48
59.00' RT

0.02

0.013

EX SH

TMP

EX. 6"ɔGAS

ABAN. 6"ɔ WATER

220+77.00
609.17

EX. 16" WATER

EX. 18" STM.

+42, 35' COMM. DRIVE

EX SH

608.80
43.00' LT

608.65
(T/DROP CURB)
33.00' LT

608.91
0.00' RT

608.16
(T/DROP CURB)
33.00' RT

EX SH

TMP

EX. 6"ɔGAS

ABAN. 6"ɔ WATER

220+50.00
608.87

EX. 16" WATER

EX. 18" STM.

608.34
59.00' LT

EX SH

608.66
43.00' LT

608.51
35.50' LT

608.81
0.00' RT

608.33
35.50' RT

DO NOT DISTURB
EXIST. GUARDRAIL

EX SH

TMP

+42, 35' COMM. DRIVE
SEE DETAIL SHEET 339

220+42.00
608.78

60 50 40 30 20 10 0 10 20 30 40 50 60

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 220+42.00 TO STA. 221+00.00

ERI-250-0.00

236
677

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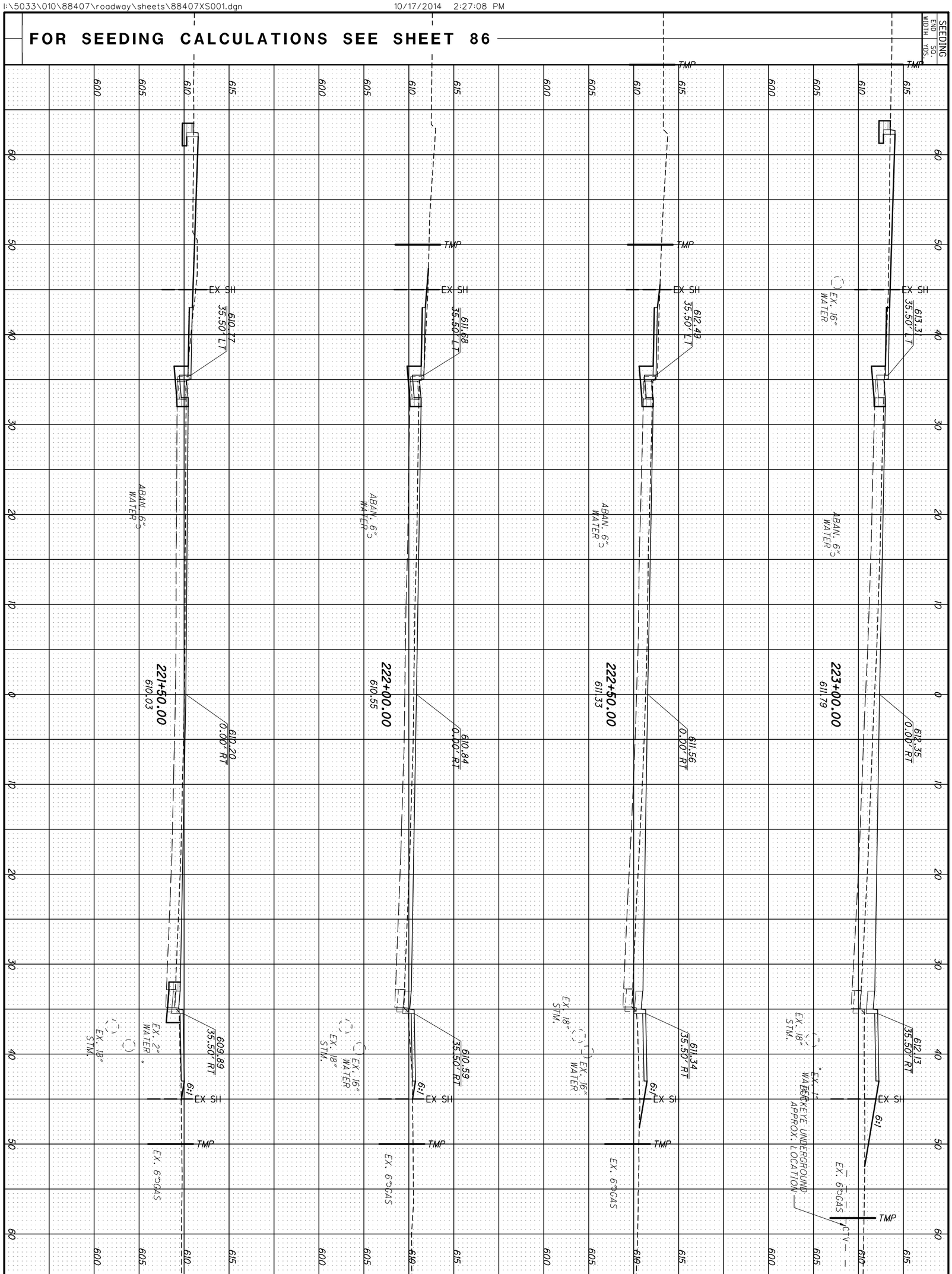
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH, SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT, FILL
VOLUME: CUT, FILL

237
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 221+50.00 TO STA. 223+00.00

CALCULATED JJ
CHECKED GAB

SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ | CHECKED GAB

TMP

TMP

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 223+50.00 TO STA. 224+00.00

ERI-250-0.00

238
677

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60 50 40 30 20 10 0 10 20 30 40 50 60

615 610 605 600 620

EX SH

6:1

614.46
35.50' LT

ADJUST TO GRADE
(SV 5729)
STA. 224+08.2, 48.4' LT.
EX. CB = 611.18
SEE SHEET 166

EX. 16" WATER

ADJUST TO GRADE
(SV 5728)
STA. 224+04.2, 38.6' LT.
EX. SAN. MH=614.68
SEE SHEET 166

ABAN. 6" WATER

613.62
0.00' RT

224+00.00
612.93

613.40
35.50' RT

EX. 18" STM.

EX. 1" WATER

611.8, 49.0' RT

EX. 6" GAS

STA. 224+00.0, 49.0' RT
PROP. CB-3A, AS PER PLAN
SEE SHEET 166

613.85
33.00' LT

EX. 16" WATER

ABAN. 6" WATER

613.32
0.00' RT

223+71.00
612.57

612.77
35.50' RT

EX. 18" STM.

EX. 1" WATER

171, COMM. DRIVE
RECONSTRUCT
SEE DETAIL SHEET 340

611.6, 62.8' RT

0.0600

EX. 6" GAS

613.96
35.50' LT

EX. 16" WATER

ABAN. 6" WATER

613.08
0.00' RT

223+50.00
612.32

612.86
35.50' RT

EX. 18" STM.

EX. 1" WATER

EX. 6" GAS

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

620 615 610 605 600

+13, 41' COMM. DRIVE REMOVED

615.31 35.50' LT
614.47 0.00' RT
614.25 35.50' RT

6:1 EX SH TMP EX SH TMP

EX. 6" GAS
EX. 6" GAS TELE.
EX. 16" WATER
ABAN. 6" WATER
EX. 8" SAN.
EX. 15" STM.
EX. 1" WATER

225+00.00
613.79

614.61 33.00' LT
614.09 0.00' RT
613.87 35.50' RT

EX SH 6:1 EX SH

STA. 224+47.5, 49.7' RT
PROP. CB-7, AS PER PLAN
SEE SHEET 166

612.3
EX. 6" GAS
EX. 16" WATER
ABAN. 6" WATER
EX. 8" SAN.
EX. 15" STM.
EX. 1" WATER

224+50.00
613.43

614.43 33.00' LT
+31, INTERSECTION BEATTY LANE
613.90 0.00' RT
613.68 35.50' RT

EX SH 6:1 EX SH

+39, 11' COMM. DRIVE TO BE REMOVED

612.0 49.0RT
EX. 6" GAS
EX. 16" WATER
ABAN. 6" WATER
EX. 12"
EX. 8" SAN.
EX. 1" WATER

224+31.00
613.21

RECONSTRUCT TO GRADE
(SV 5168)
STA. 224+27.0, 34.8' RT
EX. CI = 611.73
SEE SHEET 166

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 224+31.00 TO STA. 225+00.00

ERI-250-0.00

239
677

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SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL

CALCULATED JJ
CHECKED GAB

EX R/W

-- BOGART ROAD --

226+50.00
614.52

616.17
35.50' LT

615.33
0.00' RT

615.10
37.45' RT

613.7

8:1

TMP

EX SH

EX. TELE.

TO BE REMOVED
(SV 11312)
STA. 226+89.2, 39.5' RT.
EX. CI = 612.87
SEE SHEET 167

8" WATER

D1 STA. 226+31.0, 51.0' RT 605
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 167

226+00.00
614.39

615.95
35.50' LT

615.11
0.00' RT

614.89
35.50' RT

EX. 6"GAS

EX. 6"GAS TELE.

EX. 16" WATER

ABAN. 6" WATER

RECONSTRUCT TO GRADE
(SV 5796)
STA. 226+25.4, 40.5' RT.
EX. MH = 613.48
SEE SHEET 167

(SV 11313)
STA. 226+08.9, 38.4' LT.
EX. SAN. MH=616.28
SEE SHEET 167

225+50.00
614.14

615.73
35.50' LT

614.87
0.00' RT

614.65
35.50' RT

EX. 6"GAS TELE.

EX. 16" WATER

(SV 11314)
STA. 225+43.5, 52.7' LT.
EX. CB = 615.34
SEE SHEET 166

ABAN. 6" WATER

EX. 8" SAN.

EX. 15" STM.

EX. 1" WATER

225+19.00
613.97

615.48
35.50' LT

614.64
0.00' RT

614.09
35.50' RT

613.9, 51.2' RT

+13, 41' COMM. DRIVE REMOVED

+19, 12' RES. DRIVE

12:1

0.0600

EX. 8" SAN.

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 225+19.00 TO STA. 226+50.00

ERI-250-0.00

240
677

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SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

620 615 610 605 600

EX LA — EX LA — EX LA — EX LA — TMP

616.90 35.50' LT
616.06 0.00' RT
615.84 35.50' RT
615.46 58.00' RT
EX. TELE. EX. TELE.
229+00.00 615.36
EX. 21" STM.

D6 STA. 228+68, 53' RT
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 167

616.81 35.50' LT
615.97 0.00' RT
615.68 35.50' RT
EX. TELE. EX. TELE. EX. TELE.
EX. 12" WATER
228+66.15 615.24
8:1
EX. 12"
5'-12"B
13'-12"C
EX. 12" WATER
TO BE REMOVED (SV11310)
STA. 228+66.2, 40.2' RT
EX. CB
SEE SHEET 167
STA. 228+66.2, 40.2' RT
PROP. MH-3, AS PER PLAN
SEE SHEET 167
D6

STA. 137+52 6, 39.8' LT.
6'x3.5'x5' TELE. VAULT
616.43 33.00' LT
616.82 50.87' LT
615.90 0.00' RT
615.68 35.50' RT
EXIST. GUARDRAIL TO BE REMOVED
EX. TELE. EX. TELE. EX. TELE.
EX. TELE.
EX. 12" WATER
228+50.00 615.23
EX. 15" STM.

616.59 35.50' LT
615.75 0.00' RT
615.53 35.50' RT
1.61%
1.61%
EX. TELE. (228+09)
EX. 4" WATER (228+11)
EX. 12" WATER
228+06.43 615.05
D2 REPLACE I-2A-10 INLET FRAME & COVER RECONSTRUCT TO GRADE (SV 5933)
STA. 228+28.9, 34.9' RT.
SEE SHEET 167
8"

-- BOGART ROAD --

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 228+06.43 TO STA. 229+00.00

ERI-250-0.00

241
677

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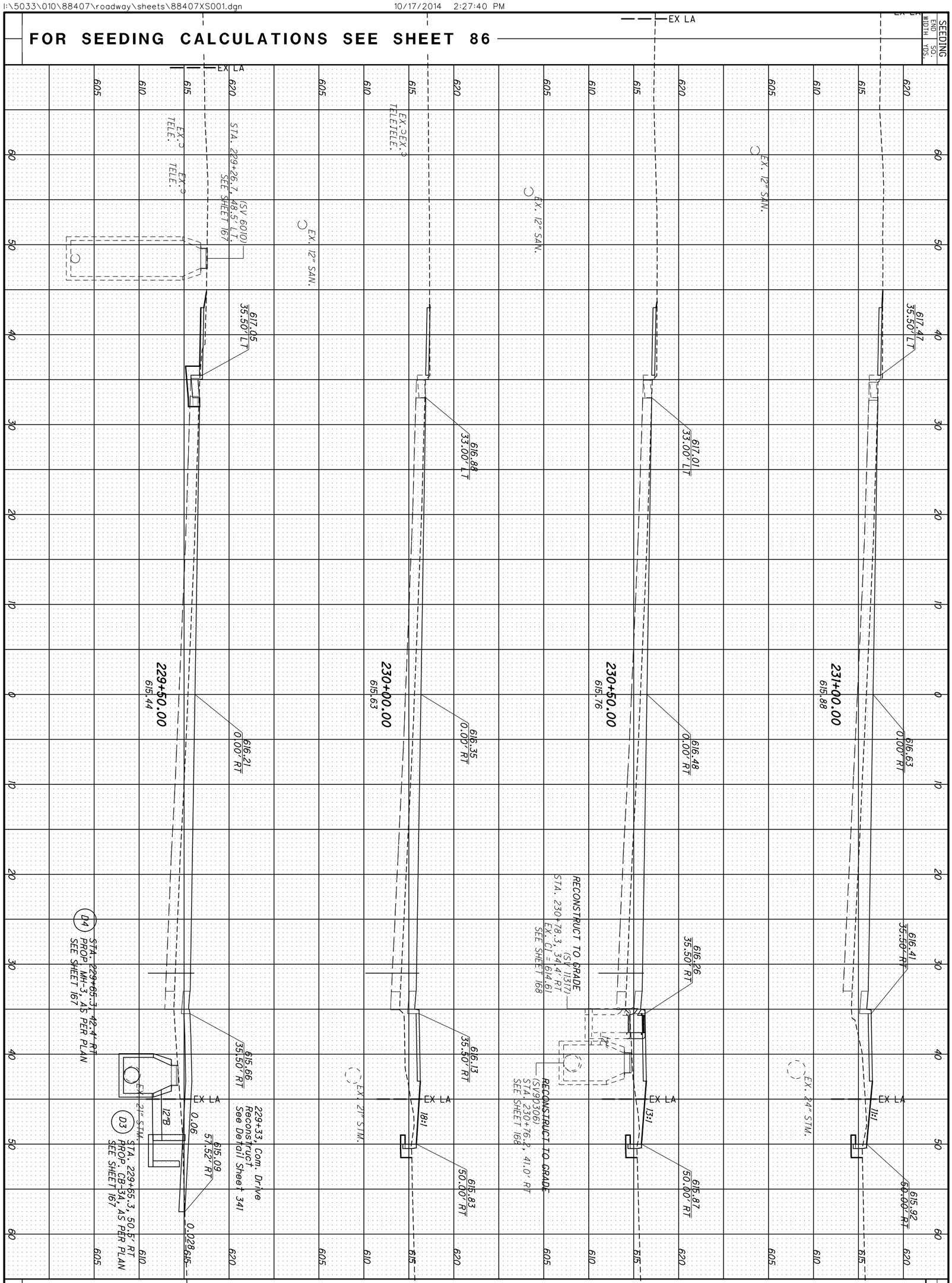
FOR SEEDING CALCULATIONS SEE SHEET 86



FOR EARTHWORK CALCULATIONS SEE SHEET 85

242
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 229+50.00 TO STA. 231+00.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

620 615 610 605

616.90 33.00' LT
618.37 0.00' RT
616.15 35.50' RT

232+50.00
616.14

6'-5 3/8"X8'-0" BOX CULVERT
EX. 24" STM.
EX LA

(SV 10323)
STA. 231+83.9, 70.2' LT.
SEE SHEET 168

617.09 33.00' LT
616.56 0.00' RT
616.34 35.50' RT
614.50 9:1 60.42' RT
EX LA
614.0

232+00.00
616.12

EX. 24" STM.
EX. 8" SAN.
TMP

RECONSTRUCT TO GRADE
(SV 11316)
STA. 231+85.5, 52.5' RT.
SEE SHEET 168

+39, 24' COMM. DRIVE
NO WORK
617.19 33.00' LT
616.66 0.00' RT
616.11 (T/DROP CURB) 35.50' RT
EX LA
0.0600
10'V.C.

231+50.00
615.94

EX. 24" STM.
EX. 12" SAN.

+35, COMM. DRIVE,
NO WORK
617.18 33.00' LT
616.65 0.00' RT
616.10 35.50' RT
+33, Com. Drive
Reconstruct
See Detail Sheet 341
615.67 62.10' RT
EX LA
0.0600
10'V.C.

231+39.00
615.92

EX. 24" STM.
EX. 12" SAN.

INF

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 231+39.00 TO STA. 232+50.00

ERI-250-0.00

243
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

232+66.00
616.12

233+00.00
616.22

233+50.00
616.23

616.84
33.00' LT

616.74
33.00' LT

616.60
33.00' LT

616.31
0.00' RT

616.21
0.00' RT

616.25
0.00' RT

615.76
35.50' RT

615.99
35.50' RT

615.54
33.00' RT

EX. 24" STM.

0.0600

0.0900

614.0 71'RT

6:1

244
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 232+66.00 TO STA. 233+50.00

CALCULATED: JJ
CHECKED: GAB

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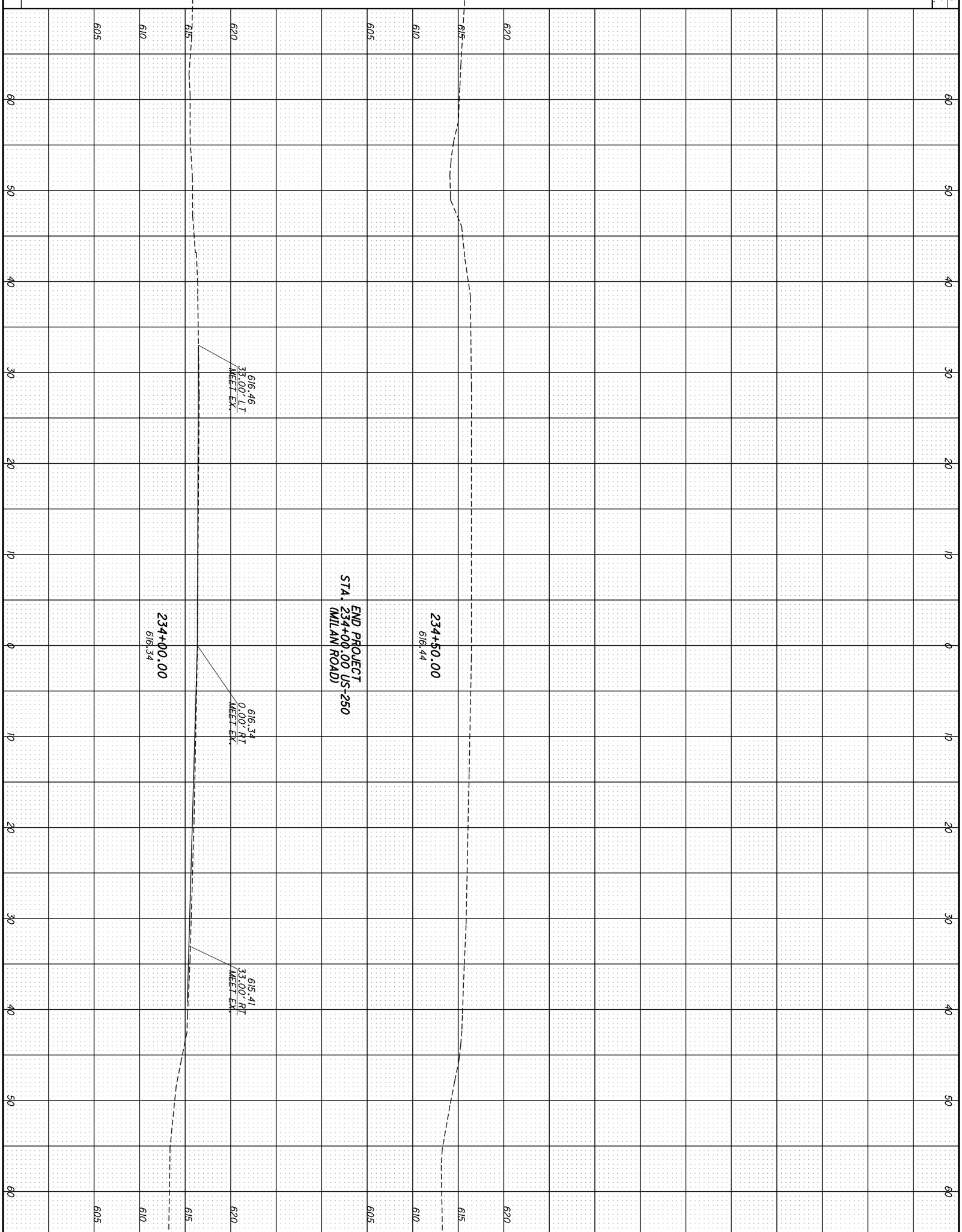
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH
SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA
CUT
FILL

VOLUME
CUT
FILL

245
677

ERI-250-0.00

CROSS SECTIONS US-250 (MILAN ROAD)
STA. 234+00.00 TO STA. 234+50.00

CALCULATED
JJ
CHECKED
GAB

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
295 & 296	Intersection Detail
135	US-250 (Sycamore Line) P&P

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Full Depth Pavement Replacement (Concrete)
- TH # Quality Level A Test Hole

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED | CHECKED

STA. 471+50.00 TO STA. 477+00.00

PLAN AND PROFILE - US 6 (CLEVELAND RD.)

ERI-250-0.00

246
677

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STA. 9+39.24 SYCAMORE LINE = STA. 474+15.00 US RTE 6

STA. 9+40.50 SYCAMORE LINE (BK)= STA. 0+00.00 US 250 (SYCAMORE LINE) AHD.

STA. 473+16.3, 39.6' LT
PROP. CB-3A W/2' SUMP, AS PER PLAN
T/GRATE = 592.26
E 12" E = 585.12 (TRAP)

STA. 474+18.8, 34.9' RT.
PROP. CB-3A W/2' SUMP, AS PER PLAN
T/GRATE = 592.83
E 12" NE = 589.9± (TRAP)

TO BE REMOVED (SV 11284)
STA. 474+17.7, 40.1' RT
EX. CB = 592.74
E 12" NE=589.84

(SV90223)
STA. 474+23.9, 7.4' RT.
T/RIM=593.67
E 12" SW=589.67
E 12" SE=589.07
E 15" N&S=584.07

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EXISTING PROFILE ALONG ℄ CONST.: 593.40, 593.21, 593.23, 593.46, 593.59, 593.75, 593.90, 594.17, 594.22, 594.01

605 600 595 590 585 580 575 570

472+00 473+00 474+00 475+00 476+00 477+00

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

INTERSECTION

(SV90223)
STA. 474+23.9, 7.4' RT.
T/RIM=593.67
SEE SHEET 246

STA. 474+18.8, 34.9' RT.
PROP. CB-3A W/2' SUMP, AS PER PLAN
T/GRATE = 592.83
SEE SHEET 246

TO BE REMOVED
(SV 11284)
STA. 474+17.7, 40.1' RT
EX. CB = 592.74
SEE SHEET 246

EX R/W

R/W

TMP

EX. GAS

6" WL

12"

12"

12'-12"B

474+00.00
593.58

INTERSECTION

473+50.00
593.46

STA. 473+15.3, 39.6' LT
PROP. CB-3A W/2' SUMP AS PER PLAN
T/GRATE = 592.26
SEE SHEET 246

473+00.00
593.23

472+50.00
593.21

BEGIN WORK STA. 472+43.00
US-6 (CLEVELAND ROAD)
MEET EXISTING

472+00.00
593.40

471+50.00

595

590

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS BASELINE US-6
STA. 471+50.00 TO STA. 474+00.00

ERI-250-0.00

247
677

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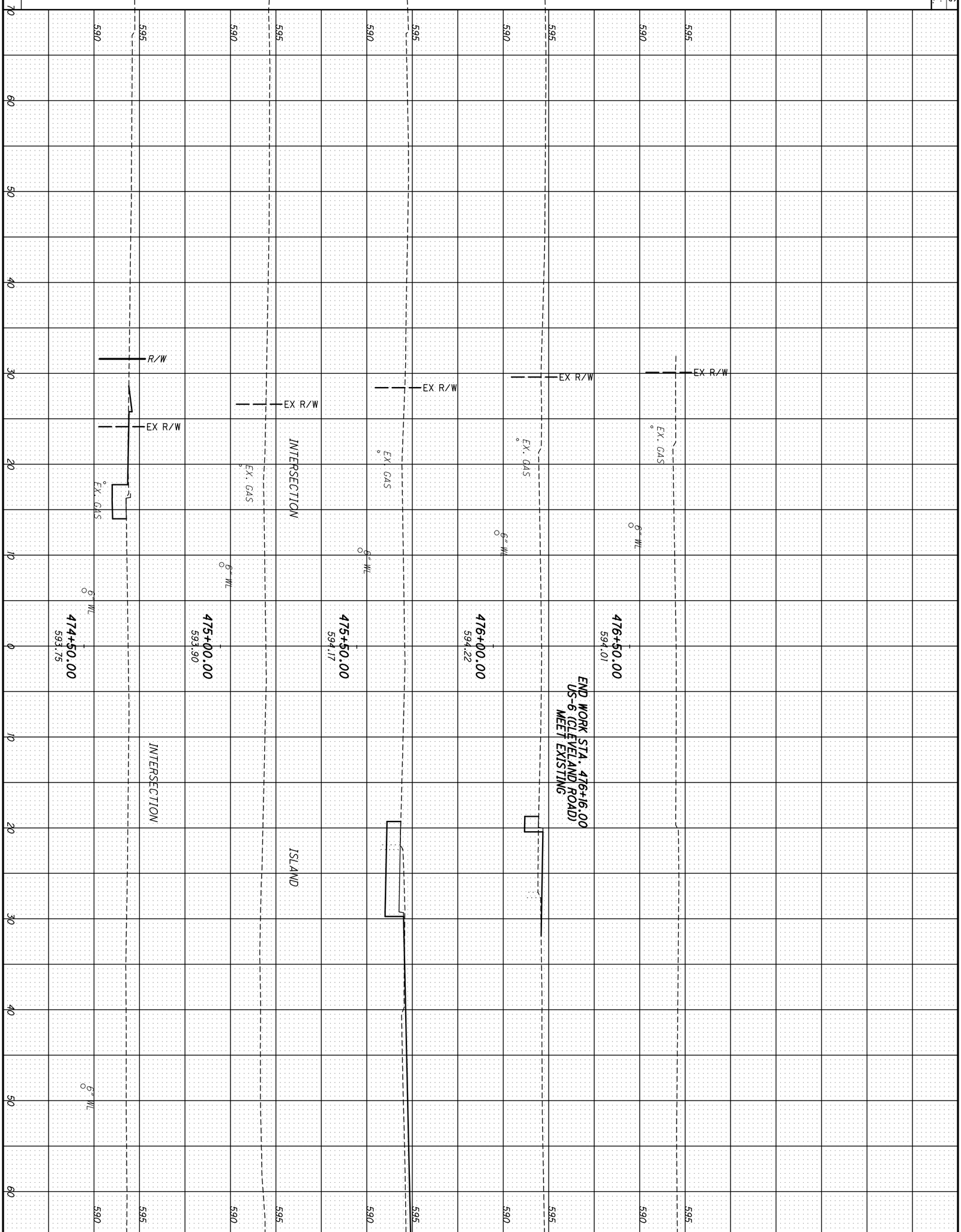
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | END AREA FILL | VOLUME CUT | VOLUME FILL

248
677

ERI-250-0.00

CROSS SECTIONS BASELINE US-6
STA. 474+50.00 TO STA. 476+50.00

CALCULATED JJ
CHECKED GAB

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
300 & 301	Intersection Detail
149	US-250 (Milan Rd) Plan and Profile

HULL RD.

MILAN RD. US-250

℄ SURVEY HULL RD.

℄ US 250 (MILAN RD.)

℄ CONST. HULL RD.

CONST. LIMITS

ABANDONED 16.5' WIDE RAILROAD R/W

2" WATER SERVICE CLOSE CORP STOP AND ABANDONED SERVICE LINE

P.I. Sta. 1+14.14
Δ = 12° 26' 20" (RT)
Dc = 28° 00' 00"
R = 204.63'
T = 22.30'
L = 44.42'
E = 1.21'
C = 44.34'
C.B. = N 79° 10' 21" E

P.I. Sta. 1+86.91
Δ = 21° 00' 00" (RT)
Dc = 20° 57' 57"
R = 273.28'
T = 50.65'
L = 100.16'
E = 4.65'
C = 99.60'
C.B. = S 84° 06' 29" E

SAW CUT

℄ CONST. HULL ROAD
CURVE DATA
P.I. Sta. 13+30.10
Δ = 54° 48' 22" (RT)
Dc = 10° 59' 50"
R = 521.00'
T = 270.10'
L = 498.36'
E = 65.85'
C = 479.58'
C.B. = N 78° 59' 21" E

MATCH LINE: STA. 15+00

TO BE REMOVED

POLE TO BE RELOCATED

CB TO BE REMOVED

274'-4" UD

196'-4" UD

105'-15"B/C @ 1.0%

BUCKEYE UNDERGROUND FIBER IN CONDUIT APPROX. LOCATION

ERIE COMMUNITY FED. CREDIT UNION #4416

BOB EVANS SIGN

COMMERCIAL SIGN

HANDICAP PARKING

WAGNER QUARRY PORTABLE SIGN

SPLIT RAIL FENCE

2'X4' CONC. PAD

PC Sta. 10+60.00

PC Sta. 10+00.00

N 51° 35' 10" E

STA. 139+43.12 US 250=
STA. 11+98.89 HULL RD.

S 37° 01' 48" E

S 73° 36' 29" E

N 72° 51' 11" W

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED | CHECKED

PLAN AND PROFILE - HULL ROAD STA. 10+00 TO STA. 15+00

ERI-250-0.00

249
677

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SEE INTERSECTION DETAIL SHEET 301

STA 11+17.11 ELEV = 614.04±

STA 11+66.16 ELEV = 613.55±

PVI STA 12+31.61 ELEV = 613.55'

198.39' @ -1.19%

40.00' VC.

78.23' @ -0.40%

PVI STA 14+50.00 ELEV = 610.95'

STA 14+30.00 ELEV 611.19

STA 14+70.00 ELEV 610.87

STA. 140+06.3, 76.8' LT (US-250)
PROP CB-3A, AS PER PLAN
SEE SHEET 149

STA. 140+17.4, 76.8' LT. (US-250)
PROP MH-3, AS PER PLAN
SEE SHEET 149

STA. 140+78.8, 40.4' LT (US-250)
PROP CB-3A, AS PER PLAN
SEE SHEET 149

EXIST. PROFILE @ ℄ CONST.

PROP. PROFILE @ ℄ CONST.

-1.19 %

-0.40 %

TO BE REMOVED (SV 6460)
STA. 12+90.8, 32.5' RT
EX. CB = 611.98

TO BE REMOVED (SV 6461)
STA. 13+36.7, 4.8' RT.
EX. CB = 611.95

TO BE REMOVED (SV 1783)
STA. 12+47.3, 17.6' RT.
EX. MH=613.96
℄ 12"SE=608.76
℄ 15"E&S=608.76

TO BE REMOVED (SV 6631)
STA. 13+10.8, 42.9' LT
EX. MH = 611.87
℄ 12"E=607.87
℄ 15"SW=607.87

TO BE REMOVED (SV 6896)
STA. 13+50.7, 72.9' LT.
EX. CB=609.40
℄ 15"SE=606.90

TO BE REMOVED (SV 6524)
STA. 13+99.7, 10.8' LT
EX. CB=610.82
℄ 12"SW=608.03

TO BE REMOVED (SV 6963)
STA. 13+97.9, 4.2' LT.
EX. CB=610.42
℄ 6"SW=608.02
℄ 12"NE=607.52
℄ 12"NW&SE=607.22

D1 STA. 13+97.9, 4.2' LT
PROP MH-3, AS PER PLAN
T/RIM = 611.64
℄ 15" SW = 607.79
℄ 12" SE = 607.22

PROP. PROFILE GRADE	613.93	613.70	613.33	613.03	612.74	612.44	612.14	611.84	611.55	611.25	610.99	610.85	610.75	PROP. PROFILE GRADE
EXISTING PROFILE ALONG ℄ CONST.	614.58	614.43	614.16	613.71	614.13	614.24	613.46	612.42	611.38	610.79	610.70	EXISTING PROFILE ALONG ℄ CONST.		

620 615 610 605 600 595 590

10+00 11+00 12+00 13+00 14+00 15+00

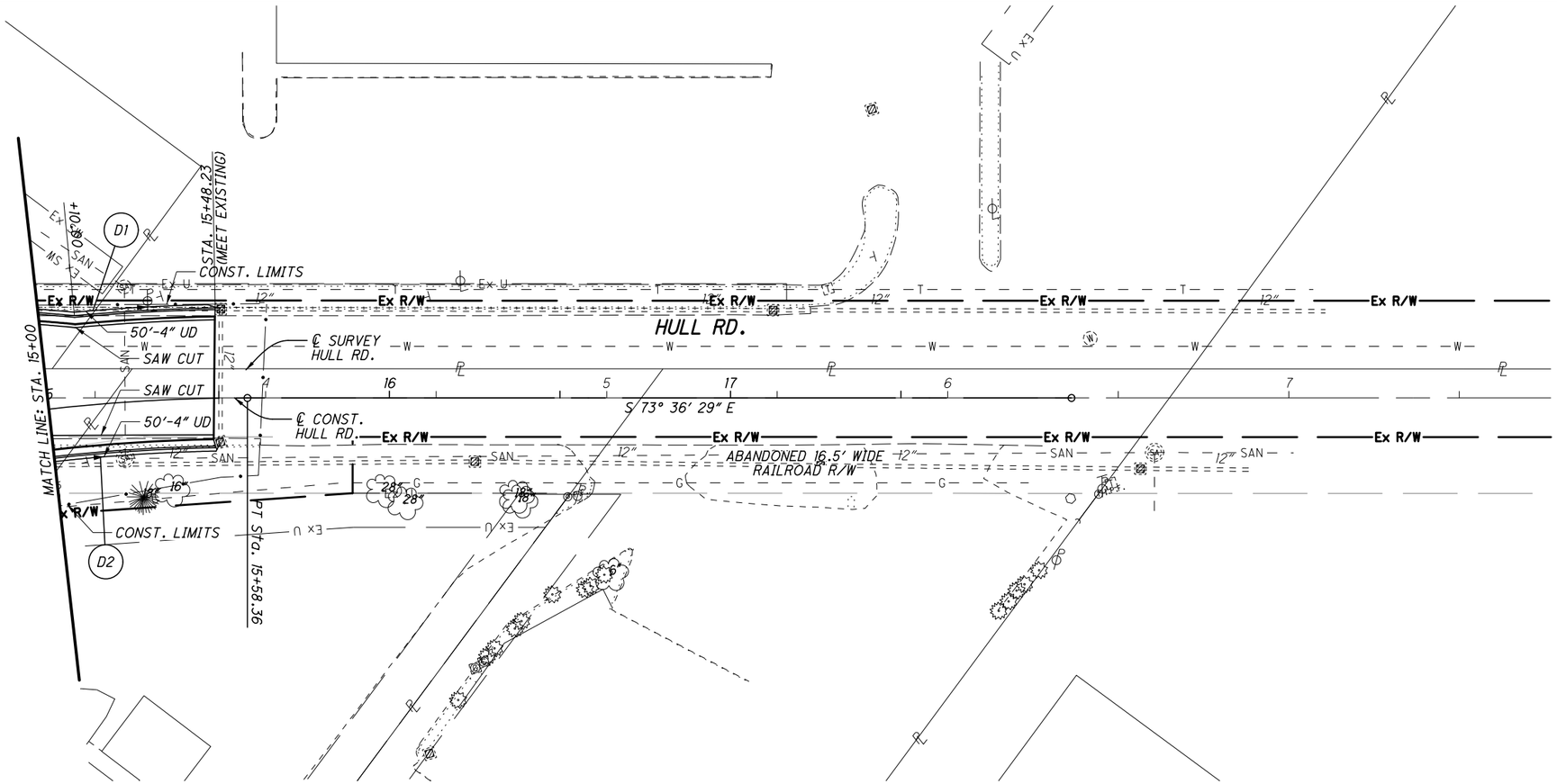
CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

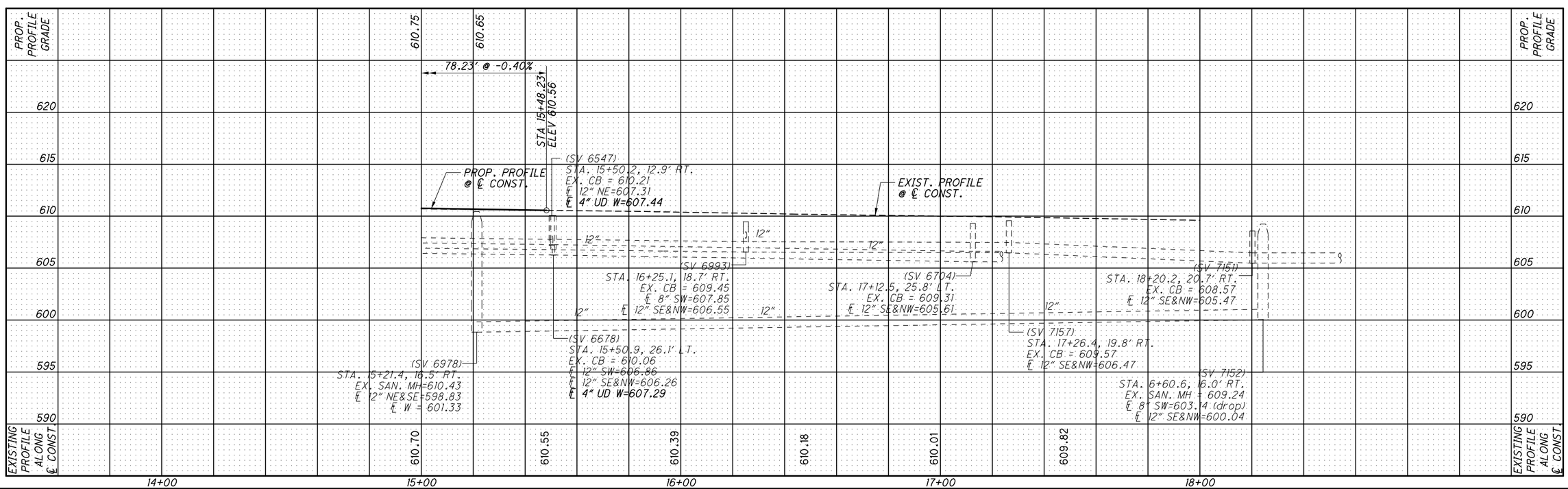
℄ CONST. HULL ROAD
CURVE DATA
P.I. Sta. 13+30.10
Δ = 54° 48′ 22″ (RT)
Dc = 10° 59′ 50″
R = 521.00′
T = 270.10′
L = 498.36′
E = 65.85′
C = 479.58′
C.B. = N 78° 59′ 21″ E

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - HULL ROAD STA. 4+00 TO STA. 8+06

ERI-250-0.00

250
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

BEGIN WORK STA. 12+31.61 HULL ROAD (MEET EXISTING)

614.13
12+00.00
614.13

613.33
12+50.00
614.24

612.74
13+00.00
613.46

612.14
13+50.00
612.42

EX R/W

EX. 2"ΦD

EX. 12" W

2" SERVICE

9" UD

TO BE REMOVED (SV 6631) STA. 13+10.8, 42.9' LT. EX. MH = 611.87 SEE SHEET 249

TO BE REMOVED (SV 17831) STA. 12+47.7, 12.6' RT. EX. MH=613.96 SEE SHEET 249

TO BE REMOVED (SV 6460) 9" UD STA. 12+90.8, 32.5' RT. EX. CB=611.98 SEE SHEET 249

TO BE REMOVED (SV 6896) STA. 13+50.1, 72.9' LT. EX. CB=609.40 E 15"SE=606.90

TO BE REMOVED (SV 6461) STA. 13+36.7, 4.8' RT. EX. CB=611.06 SEE SHEET 249

EX. GAS

EX. CB

STA. 13+97.9, 4.2' LT PROP. MH-3, AS PER PLAN SEE SHEET 249

STA. 12+95.4, 34.3' RT PROP CB-3A, AS PER PLAN T/GRATE = 612.36 SEE SHEET 249

STA. 13+00.4, 44.3' RT. PROP MH-3, AS PER PLAN T/RIM = 613.12 SEE SHEET 249

R/W

FO

G

251 / 677	ERI-250-0.00	CROSS SECTIONS HULL ROAD STA. 12+00.00 TO STA. 13+50.00	CALCULATED JJ	CHECKED GAB

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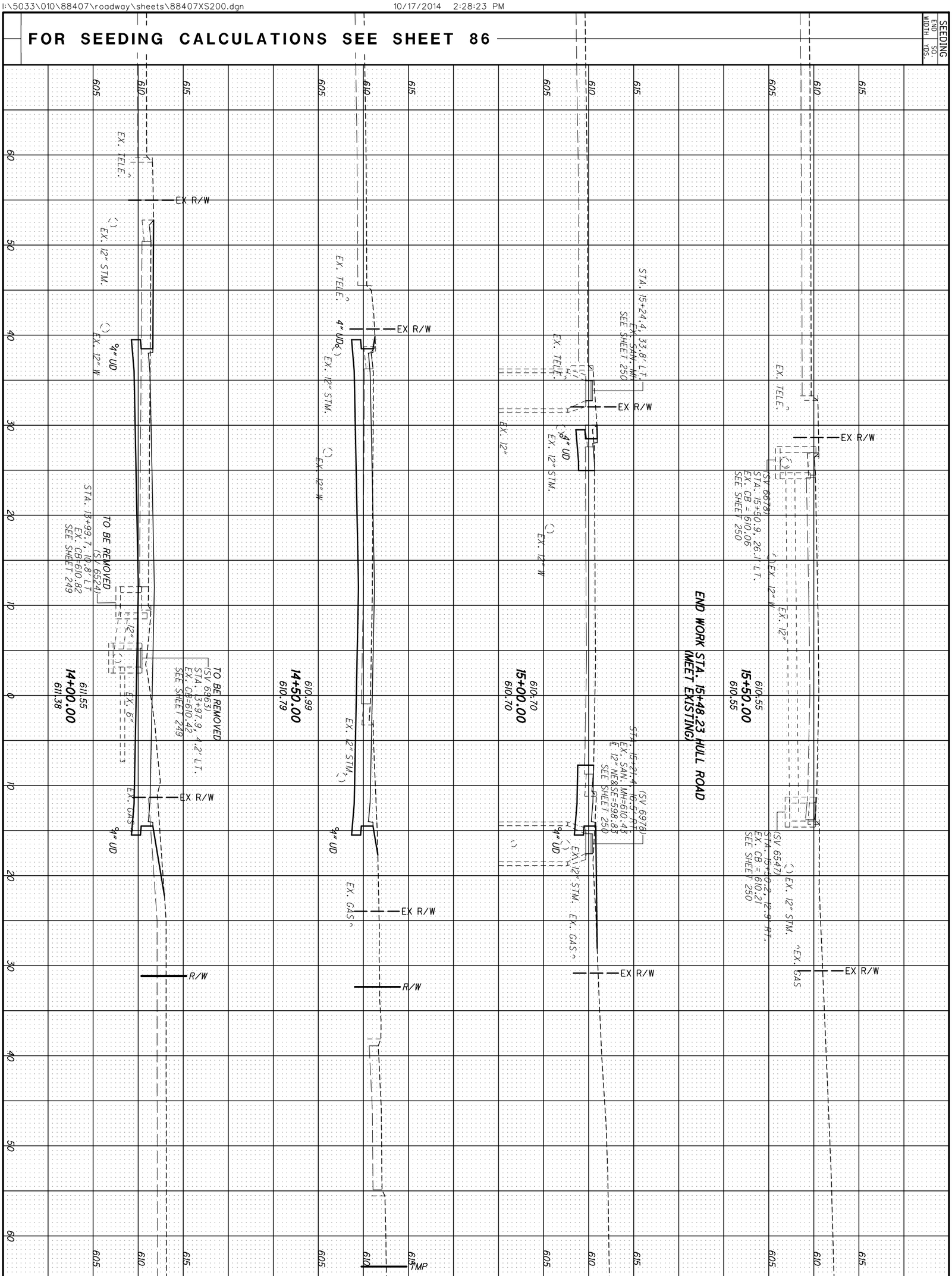
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING	END	SQ.
	WIDTH	YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA	CUT	FILL
VOLUME	CUT	FILL

(252) 677	ERI-250-0.00	CROSS SECTIONS HULL ROAD STA. 14+00.00 TO STA. 15+50.00	CALCULATED JJ CHECKED GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.

605 610 615 605 610 615 605 610 615

60 50 40 30 20 10 0 10 20 30 40 50 60

EX R/W EX R/W EX R/W

EX. TELE.

EX. 12" STM.

EX. 12" W

610.39
16+00.00
610.39

610.18
16+50.00
610.18

610.01
17+00.00
610.01

(SV 6704)
STA. 17+12.5, 25.8' LT.
EX. CB = 609.31
SEE SHEET 250

(SV 6993)
STA. 16+23.1, 18.7' RT.
EX. CB = 609.45
SEE SHEET 250

(SV 7167)
STA. 17+26.4, 19.8' RT.
EX. CB = 609.57
SEE SHEET 250

EX. GAS

EX R/W EX R/W EX R/W

605 610 615 605 610 615 605 610 615

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

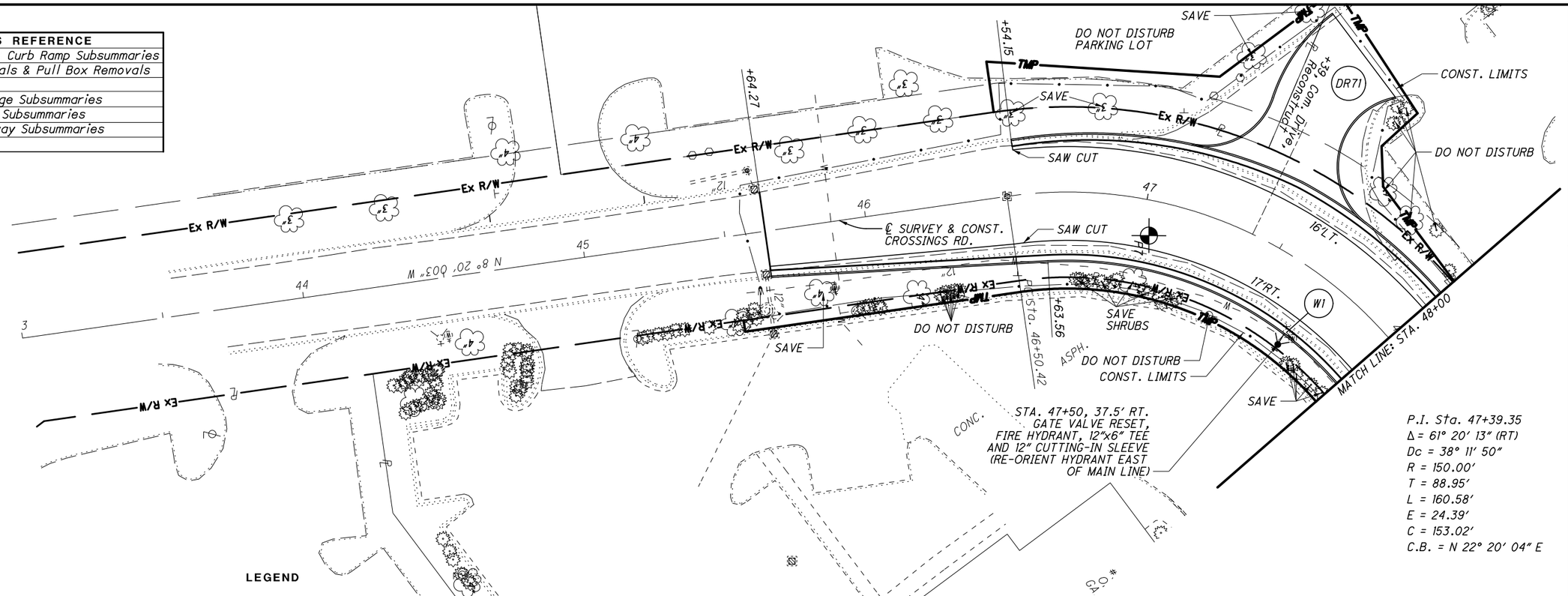
253
677

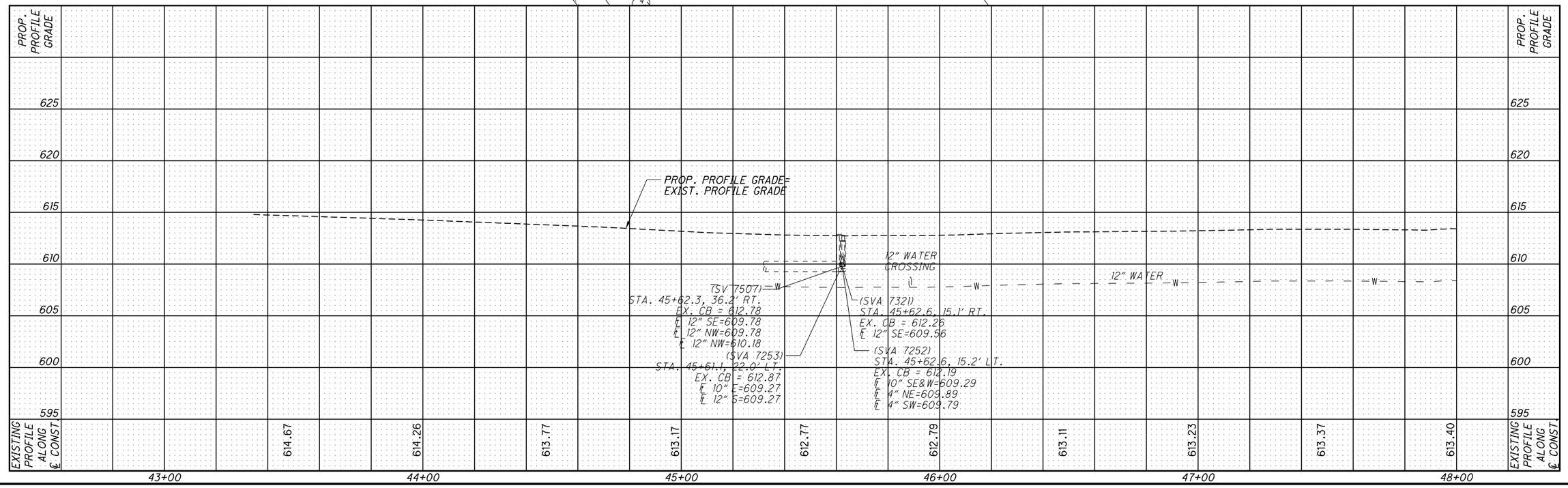
ERI-250-0.00

CROSS SECTIONS HULL ROAD
STA. 16+00.00 TO STA. 17+00.00

CALCULATED JJ
CHECKED GAB

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries





HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - CROSSING RD. STA. 43+00 TO STA. 48+00

ERI-250-0.00

254
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
304 & 305	Intersection Detail
157	US-250 (Milan Rd) Plan and Profile

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED

CHECKED

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

CONC.
DR38
CROSSINGS OF SANDUSKY SIGN
36'-12B @0.20%
DO NOT DISTURB SIGN
EX. 18"
EX. 12"
Ex U
bushes
GRASS
Ex R/W
SAW CUT
MATCH LINE: STA. 48+00
℄ SURVEY & CONST. CROSSINGS RD.
N 53° 02' 33" E
65'-12B @ 0.20%
CONST. LIMITS
Sta. 48+11.10
ASPH.
38'-12B, 706.02 @ 0.20%
℄ 250 (MILAN RD.)
MILAN RD. US-250
7-12B @1.0%
10" SAN.
Ex SAN MH
Ex 8" W
Ex 18" W
Ex 12" W
Ex 6" W
Ex 2" W
Ex 4" W
Ex 6" GAS
Ex UG ELEC
Ex OHW
Ex UG TEL
Ex UG CATV
Ex UG FO
Ex UG TEL-CATV
Ex UG TEL-FO
Ex UG ELEC-TEL
Ex UG ELEC-FO
Ex UG ELEC-TEL-FO
Ex UG ELEC-TEL-CATV-FO
Ex UG ELEC-TEL-CATV
Ex UG ELEC-CATV-FO
Ex UG ELEC-CATV
Ex UG CATV-FO
Ex UG TEL-CATV-FO
STA. 181+51.79 US 250= STA. 50+00.00 CROSSINGS RD.
CONST. LIMITS
TMP
GRASS
BRUSH
ASPH.
UNK.
TO BE REMOVED
DR72
DEAD
EO1
T(QL-D)
Ex SIGN
Ex 6" SAN
Ex 8" SAN
Ex 10" SAN
Ex 15" SAN
Ex 18" SAN
Ex 21" SAN
Ex 24" SAN
Ex 30" SAN
Ex 36" SAN
Ex 42" SAN
Ex 48" SAN
Ex 54" SAN
Ex 60" SAN
Ex 66" SAN
Ex 72" SAN
Ex 78" SAN
Ex 84" SAN
Ex 90" SAN
Ex 96" SAN
Ex

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.

70 60 50 40 30 20 10 0 10 20 30 40 50 60

605 610 615 620

EX R/W

STA. 45+61.1, 22.0' LT.
EX. CB = 612.87
SEE SHEET 254
(SVA 7253)

STA. 45+62.6, 15.2' LT.
EX. CB = 612.19
SEE SHEET 254
(SVA 7252)

STA. 45+62.6, 15.1' RT.
EX. CB = 612.26
SEE SHEET 254
(SVA 7321)

12" WATER

STA. 45+62.3, 36.2' RT.
EX. CB = 612.78
SEE SHEET 254
(SV 7507)

BEGIN WORK STA. 45+64.27 CROSSINGS ROAD
(MEET EXISTING)

614.26
44+00.00
614.26

613.77
44+50.00
613.77

613.17
45+00.00
613.17

612.77
45+50.00
612.77

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

256
677

ERI-250-0.00

CROSS SECTIONS - CROSSINGS ROAD
STA. 44+00.00 TO STA. 45+50.00

CALCULATED JJ
CHECKED GAB

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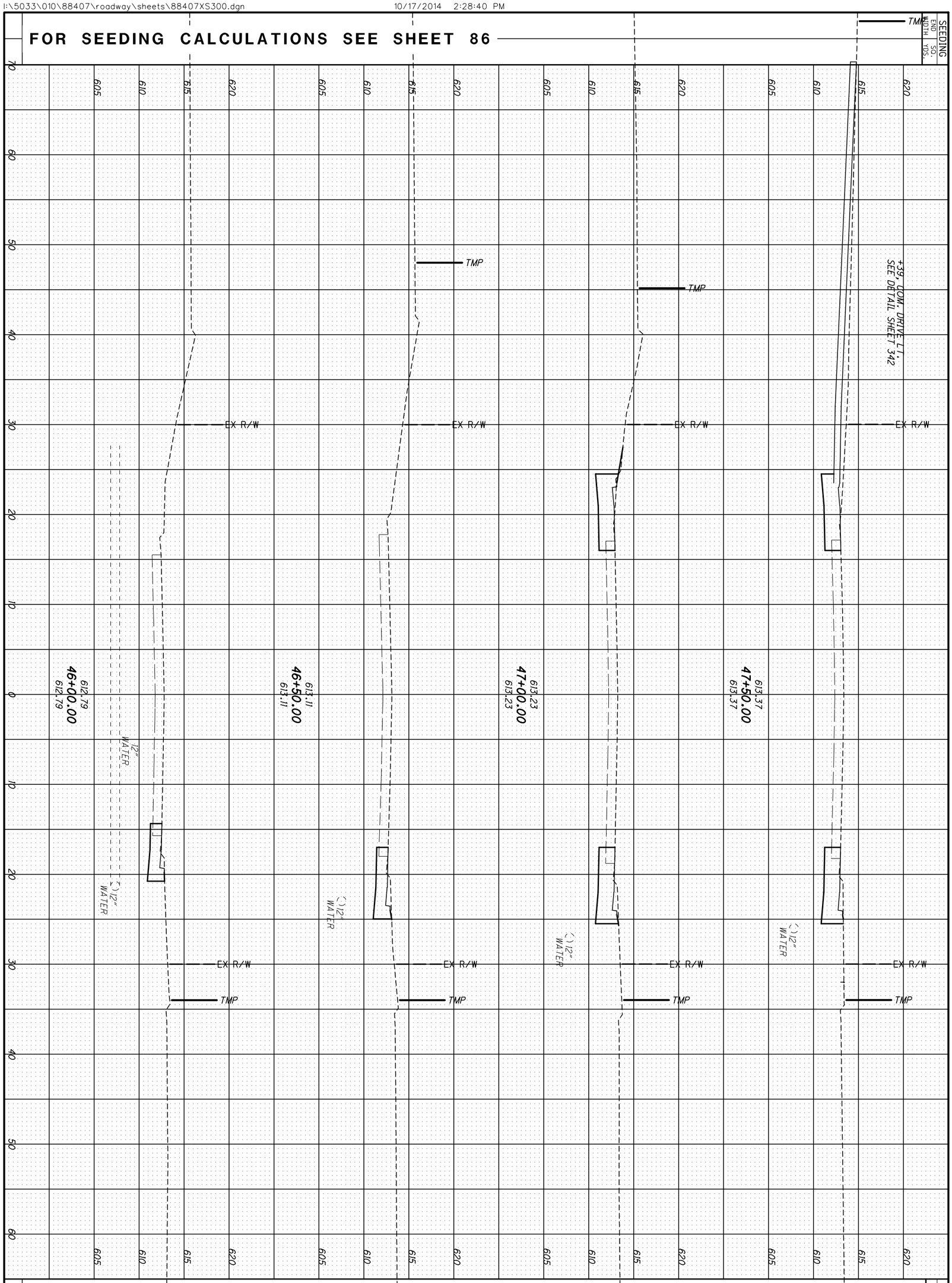
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END AREA WIDTH SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA VOLUME
CUT FILL CUT FILL

257
677

ERI-250-0.00

CROSS SECTIONS - CROSSINGS ROAD
STA. 46+00.00 TO STA. 47+50.00

CALCULATED JJ
CHECKED GAB

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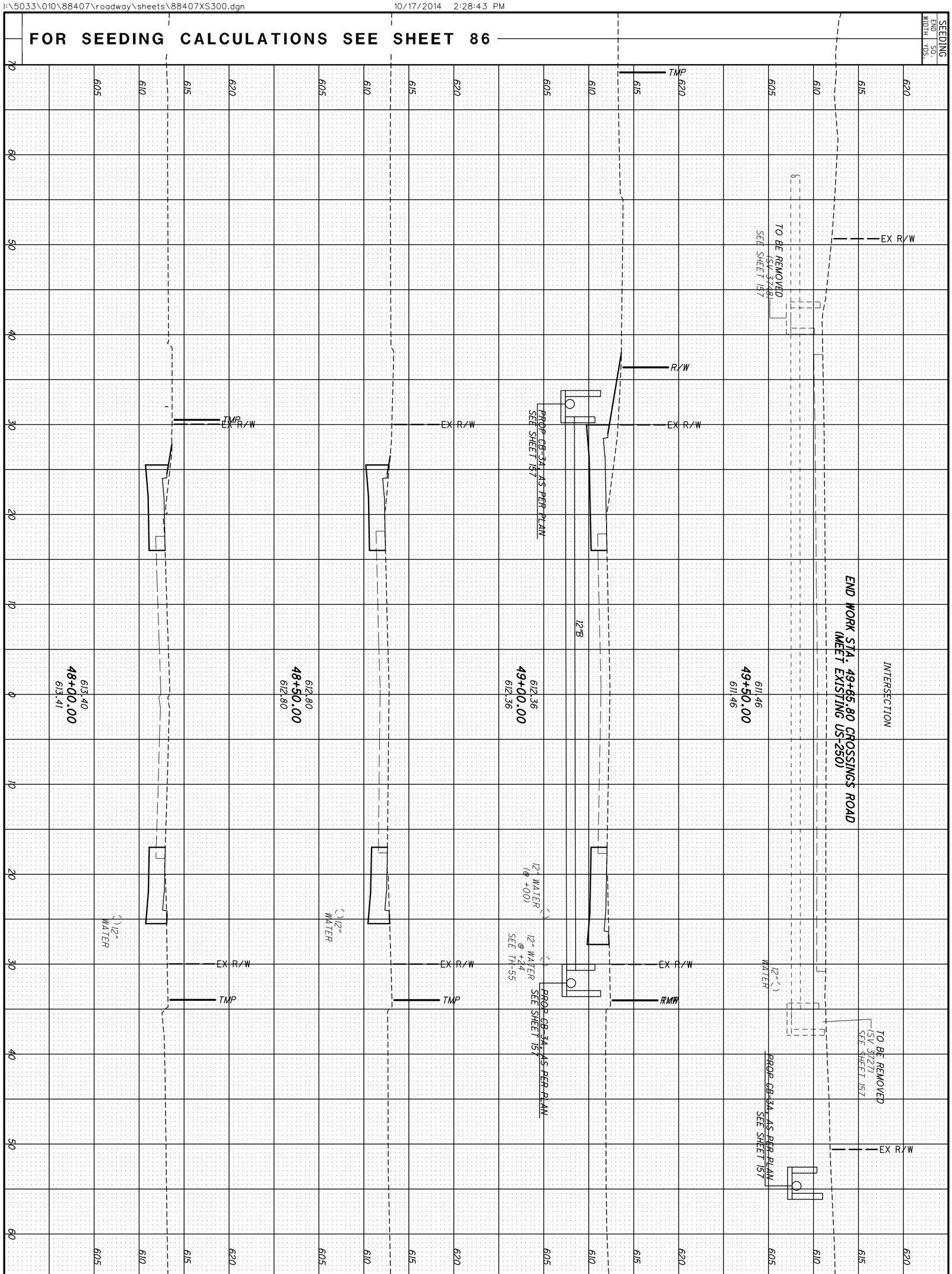
FOR SEEDING CALCULATIONS SEE SHEET 86

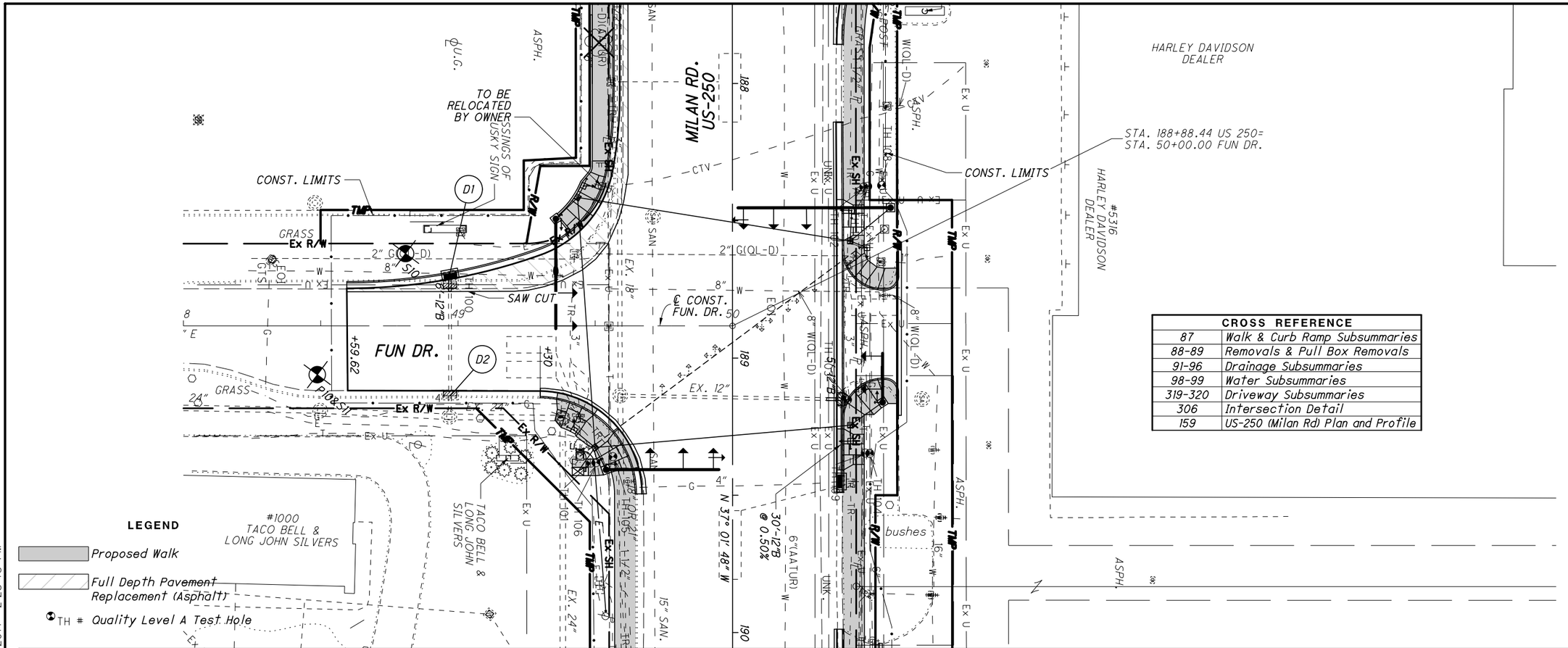
SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

258 / 677	ERI-250-0.00	CROSS SECTIONS - CROSSINGS ROAD STA. 48+00.00 TO STA. 49+50.00	CALCULATED JJ CHECKED GAB



LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
306	Intersection Detail
159	US-250 (Milan Rd) Plan and Profile

PLAN NORTH

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - FUN DR.
STA. 48+00 TO STA. 50+00

ERI-250-0.00

259
677

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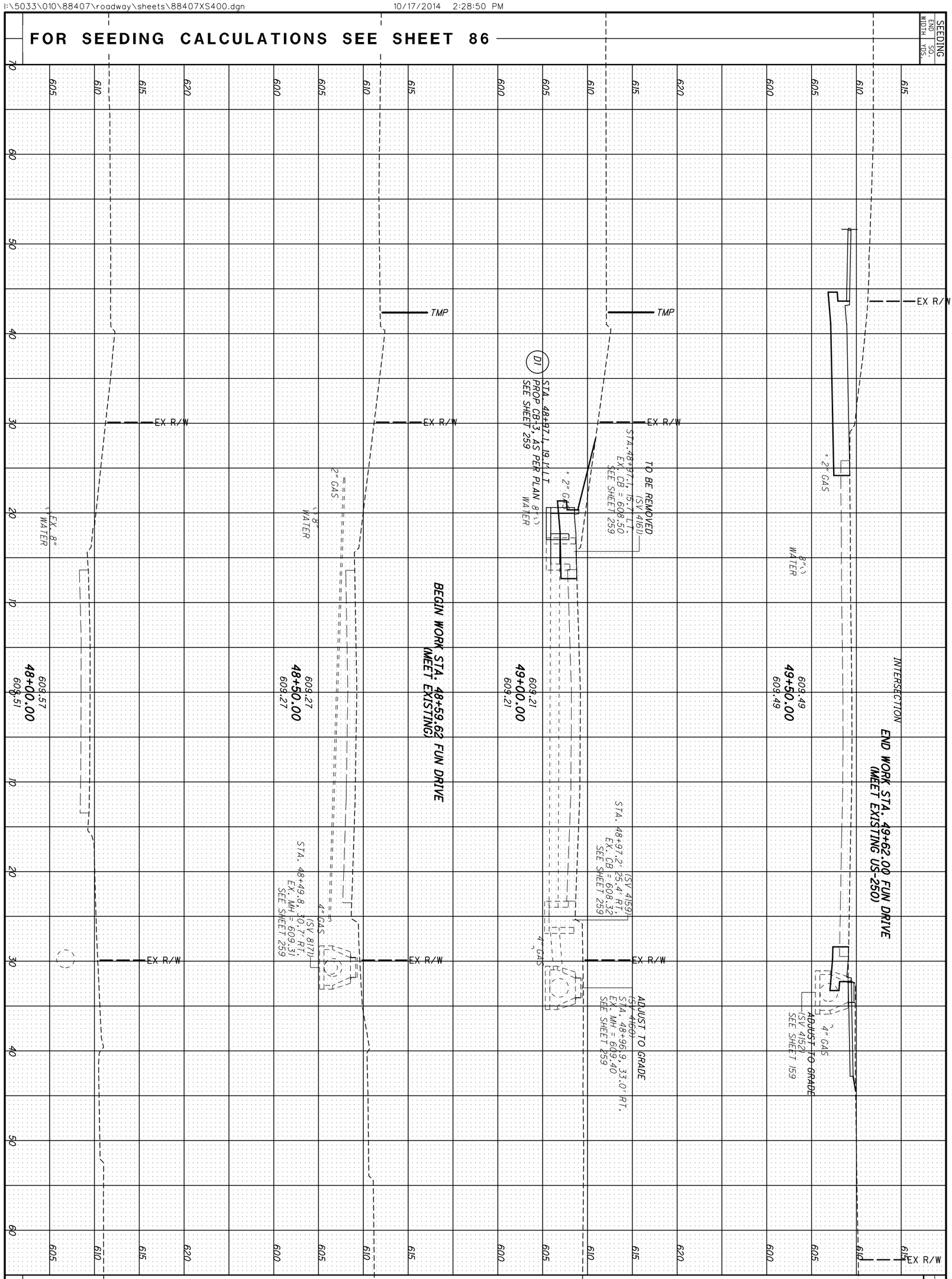
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

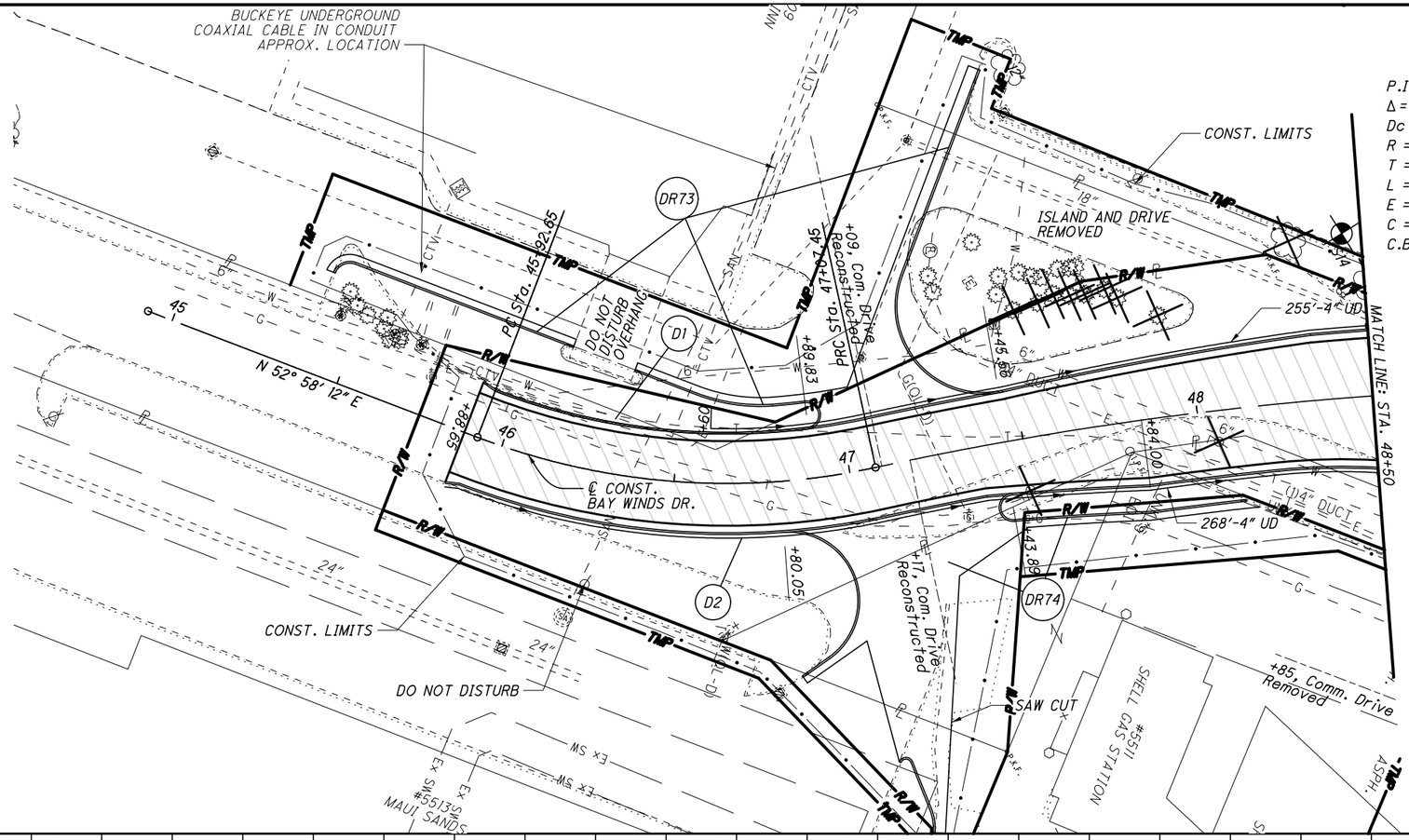
END AREA: CUT | FILL
VOLUME: CUT | FILL

260
677

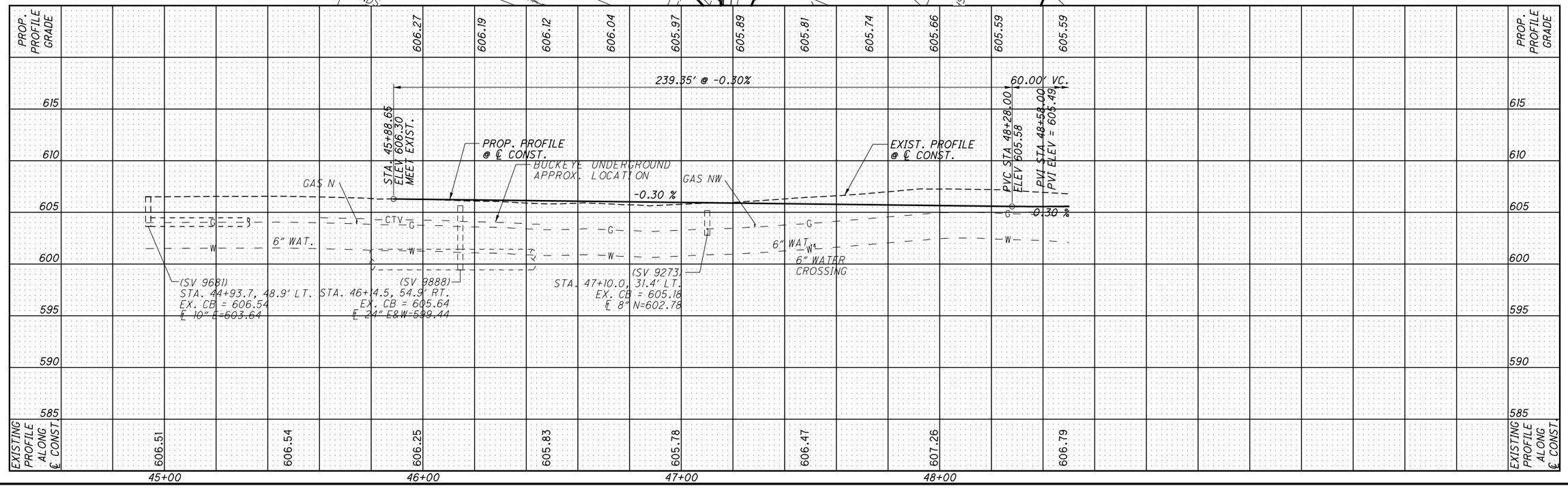
ERI-250-0.00

CROSS SECTIONS - FUN DRIVE
STA. 48+00.00 TO STA. 49+50.00

CALCULATED: JJ
CHECKED: GAB



CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries



HORIZONTAL SCALE IN FEET: 0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - BAY WINDS DRIVE STA. 45+00 TO STA. 48+50

ERI-250-0.00

261
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
307 & 308	Intersection Detail
160	US-250 (Milan Rd) Plan and Profile

PLAN NORTH

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED | CHECKED

MILAN RD. US-250

S. PARK PL.

BAY WINDS DR.

CONST. LIMITS

TO BE RELOCATED BY OWNER

+13, Comm. Drive Removed

TO BE REMOVED

+05, Comm. Drive Removed

+50, Com. Drive Reconstruct

DO NOT DISTURB

SAW CUT

TO BE RELOCATED BY OWNER

STA. 195+57.13 US 250=
STA. 49+88.11 BAY WINDS DR (BACK)=
STA. 49+88.11 S. PARK PL. (AHEAD)

P.I. Sta. 50+02.87
Δ = 32° 54' 58" (RT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 295.42'
L = 574.49'
E = 42.72'
C = 566.63'
C.B. = N 36° 12' 28" E

MATCH LINE STA. 48+50

STA. 52+81.44 END FULL DEPTH

STA. 52+68.16 MEET EXIST.

N 52° 39' 57" E

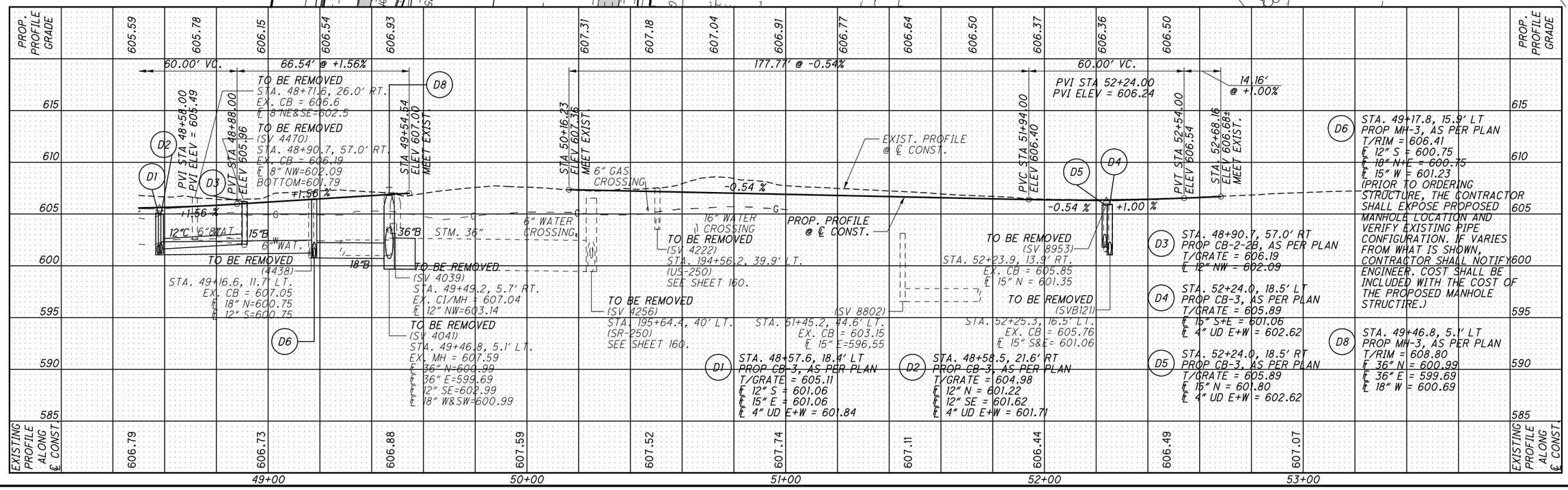
LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

PLAN AND PROFILE - BAY WINDS/S. PARK PL. STA. 48+50 TO STA. 54+00

ERI-250-0.00

262
677



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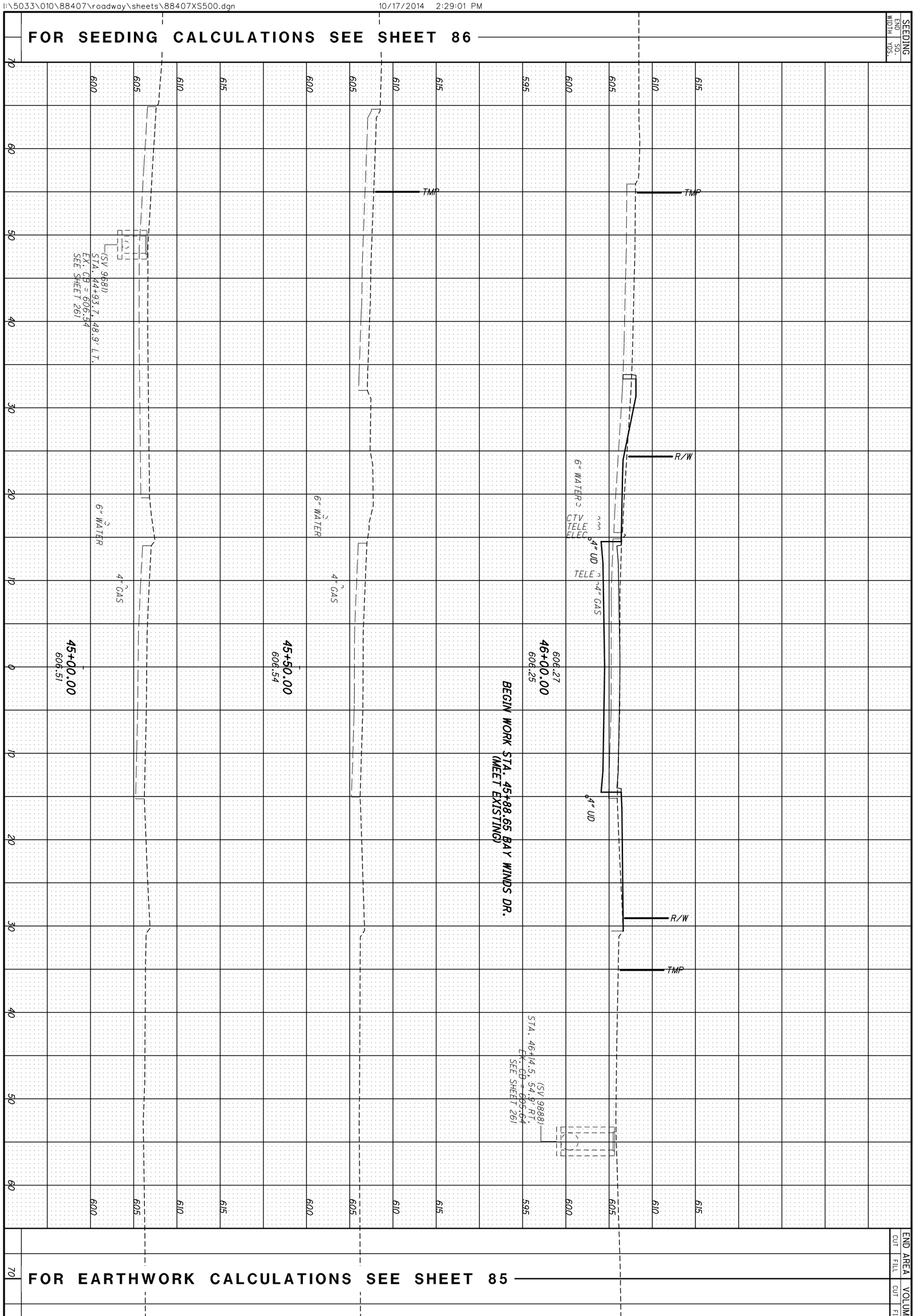

263
677

ERI-250-0.00

CROSS SECTIONS - BAY WINDS DR.
STA. 45+00.00 TO STA. 46+00.00

CALCULATED JJ
CHECKED GAB

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

264
677

ERI-250-0.00

CROSS SECTIONS - BAY WINDS DR.
STA. 46+50.00 TO STA. 48+00.00

CALCULATED: JJ
CHECKED: GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

615 610 605 600

50+07.0+
6" ABANDONED WATER

50+00.00
607.58

EX. 36" STORM

SUSPEND WORK STA. 49+54.54 BAY WINDS DR.
(MEET EXISTING US-250)

STA. 49+46.8, 5.1' LT
PROP MH-3, AS PER PLAN
T/RIM = 606.80
SEE SHEET 262

TO BE REMOVED
(SV 4041)
STA. 49+46.8, 5.1' LT.
EX. MH = 607.59
SEE SHEET 262

R/W
EX SH
4" UD
36"B

606.93
49+50.00
606.97

TO BE REMOVED
(SV 4039)
STA. 49+49.2, 5.7' RT.
EX. CI/MH = 607.04
SEE SHEET 262

STA. 49+17.8, 15.9' LT
PROP MH-3, AS PER PLAN
T/RIM = 606.41
SEE SHEET 262

TO BE REMOVED
(4438)
STA. 49+16.6, 11.7' RT.
EX. CB = 607.05
SEE SHEET 262

D3 STA. 48+90.7, 57.0' LT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 606.19
SEE SHEET 262

TMP
R/W
EX SH
18"B
4" UD
12"B
6" WATER
TELE
4"

606.15
49+00.00
606.62

D1 STA. 48+57.6, 18.4' LT
PROP CB-3, AS PER PLAN
T/GRATE = 605.11
SEE SHEET 262

605.59
48+50.00
606.79

D2 STA. 48+58.5, 21.6' RT
PROP CB-3, AS PER PLAN
T/GRATE = 604.98
SEE SHEET 262

ELEC
4" GAS

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS - BAY WINDS DR.
STA. 48+50.00 TO STA. 50+00.00

ERI-250-0.00

265
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

STA. 50+16.23 S. PARK PL.
END FULL DEPTH REPLACEMENT

D4 STA. 52+24.0, 18.5' LT
PROP CB-3, AS PER PLAN
SEE SHEET 262

D5 STA. 52+24.0, 18.5' RT
PROP CB-3, AS PER PLAN
SEE SHEET 262

TMP

R/W

4" UD

37'-15"B @ 2.0%

15"

TO BE REMOVED
(SV8121)
STA. 52+26.3, 16.5' LT.
EX. CB = 605.76
SEE SHEET 262

606.37
52+00.00
606.44

TO BE REMOVED
(SV 8953)
STA. 52+23.9, 13.9' RT.
EX. CB = 605.85
SEE SHEET 262

(SV 8802)
STA. 51+45.2, 44.6' LT.
EX. CB = 603.15
SEE SHEET 262

4:1

POSSIBLE RETAINING WALL

606.64
51+50.00
607.11

mail sign

606.91
51+00.00
607.74

EX SH

TO BE REMOVED
(SV 4256)
STA. 50+24.9, 18.0' RT.
EX. CI/MH=606.54
SEE SHEET 262

STA. 50+58.8±
6" GAS CROSSING

12"

STA. 50+69.6 EX 16" WATER CROSSING

STA. 50+69.6
EX 16" WATER
CROSSING

36"

607.18
50+50.00
607.54

RESUME WORK STA. 50+16.23 S. PARK PL.
(MEET EXISTING US-250)

615 610 605 600

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS - S. PARK PL.
STA. 50+50.00 TO STA. 52+00.00

ERI-250-0.00

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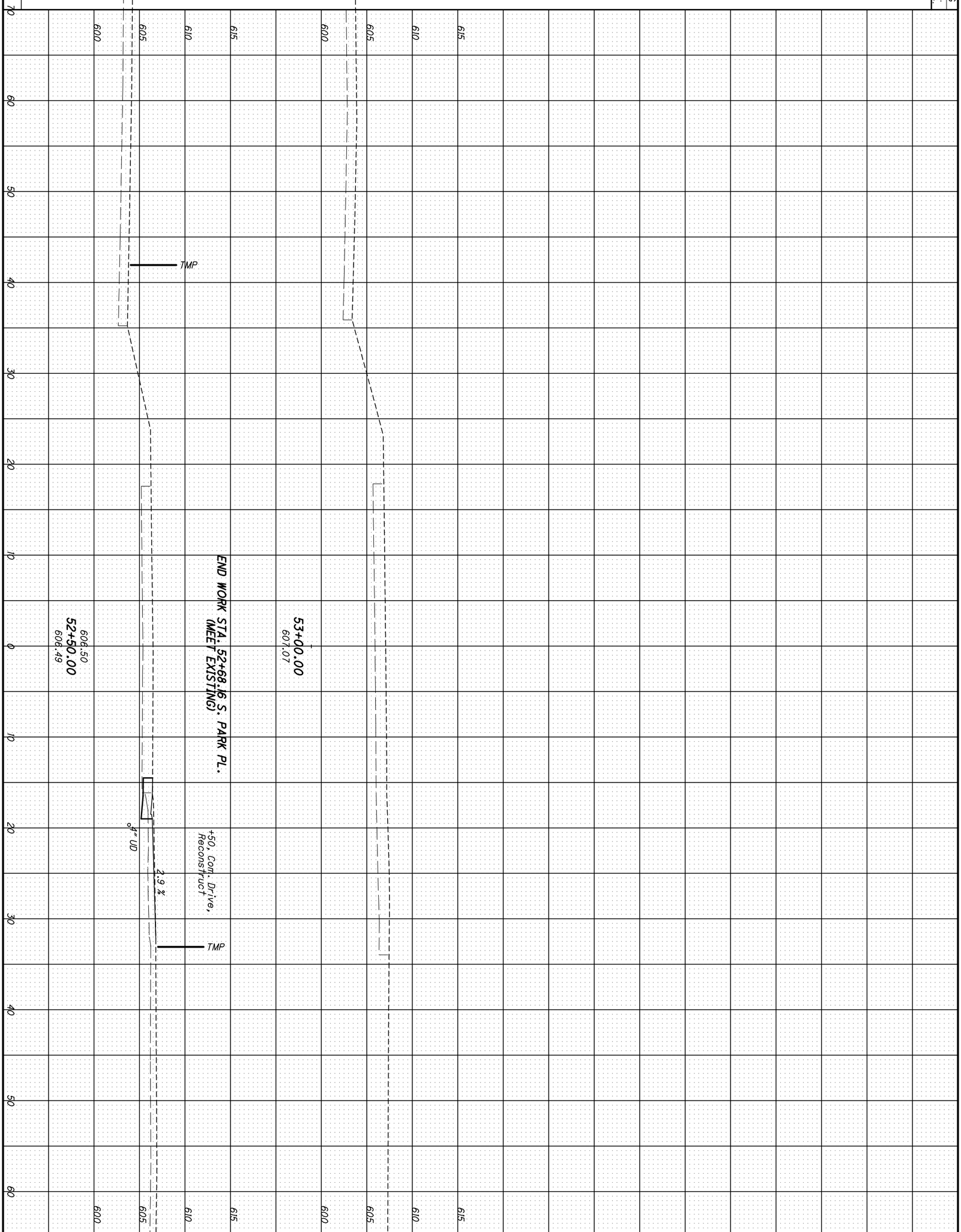
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

267 / 677	ERI-250-0.00	CROSS SECTIONS - S. PARK PL. STA. 52+50.00 TO STA. 53+00.00	CALCULATED: JJ CHECKED: GAB

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
311	Intersection Detail
162	US-250 (Milan Rd) Plan and Profile

CONST. LIMITS

Ex LA

SAW CUT

℄ RAMP "B"

PB1

PB2

PB3

P14

T517

PC Sta. 1+00.00

℄ SURVEY & CONST. US 250 (MILAN RD.)

MILAN RD. US-250

CONST. LIMITS

P.I. Sta. 4+67.31
Δ = 28° 45′ 55″ (RT)
Dc = 4° 00′ 00″
R = 1,432.39′
T = 367.31′
L = 719.13′
E = 46.35′
C = 711.60′
C.B. = N 87° 14′ 46″ E

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

TH # Quality Level A Test Hole

PROP. PROFILE GRADE= EXIST. PROFILE GRADE

EX. TELE. (172'± LT.)

6" GAS (180'± LT.)

606.09 | 605.30 | 604.59 | 603.99 | 603.39 | 603.32 | 603.26 | 603.28 | 603.45 | 603.82 | 604.03 | 603.87

0+00 1+00 2+00 3+00 4+00 5+00

HORIZONTAL SCALE IN FEET

CALCULATED

CHECKED

PLAN AND PROFILE - RAMP "B"
STA. 0+00.00 TO STA. 5+00.00

ERI-250-0.00

268
677

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.

EX LA

0+50.00
605.30
605.30

1+00.00
604.59
604.59

1+50.00
603.99
603.99

2+00.00
603.39
603.39

BEGIN WORK STA. 0+47.35 RAMP "B"
(MEET EXISTING US-250)

INTERSECTION

TIE-IN (+68+)

EX. 1½" TR

599.00
598.89
598.78
600.7
600.6
600.4

4:1
2:1

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA VOLUME
CUT | FILL | CUT | FILL

269
677

ERI-250-0.00

CROSS SECTIONS RAMP "B"
STA. 0+50.00 TO STA. 2+00.00

CALCULATED JJ
CHECKED GAB

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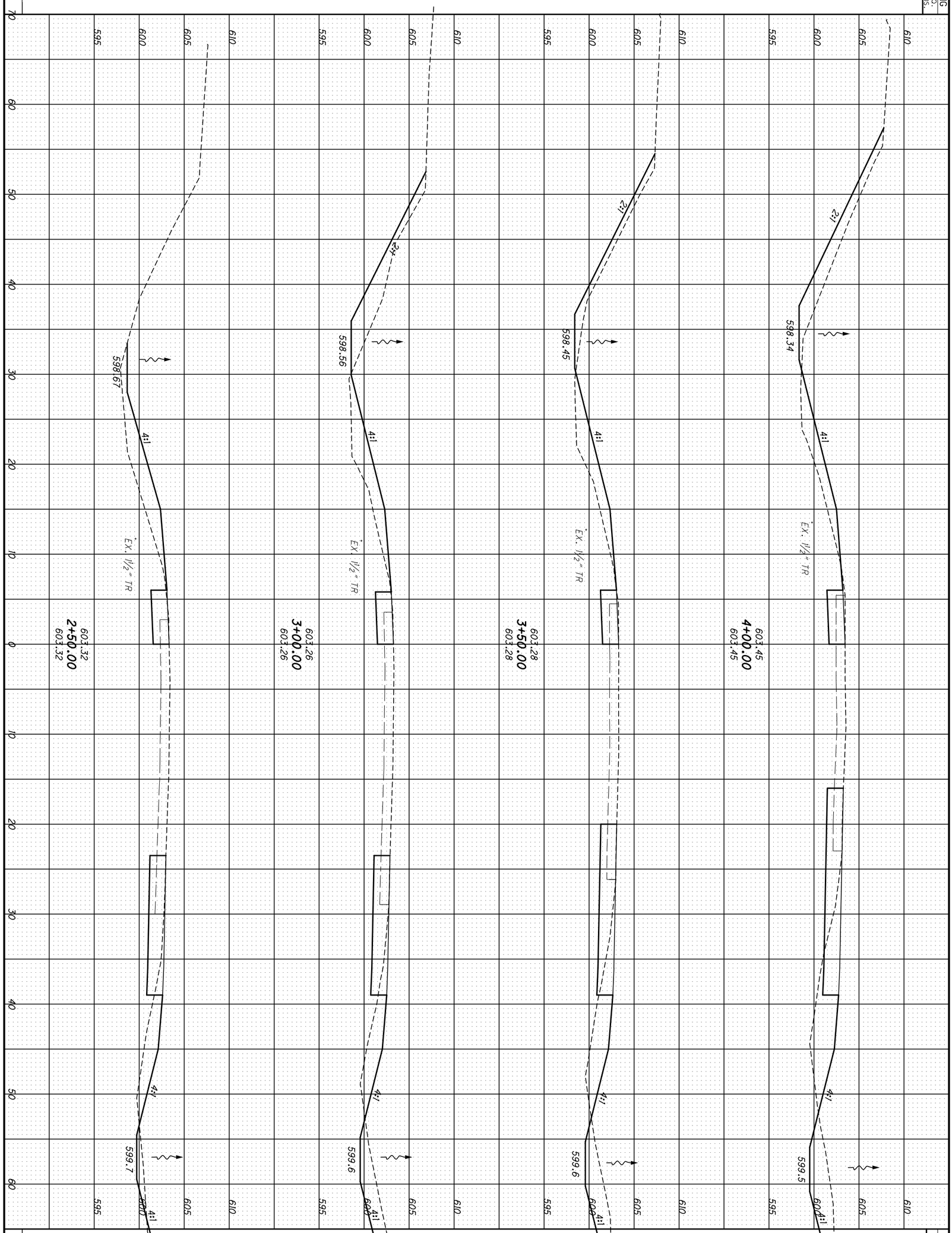
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

270
677

ERI-250-0.00

CROSS SECTIONS RAMP "B"
STA. 2+50.00 TO STA. 4+00.00

CALCULATED JJ
CHECKED GAB

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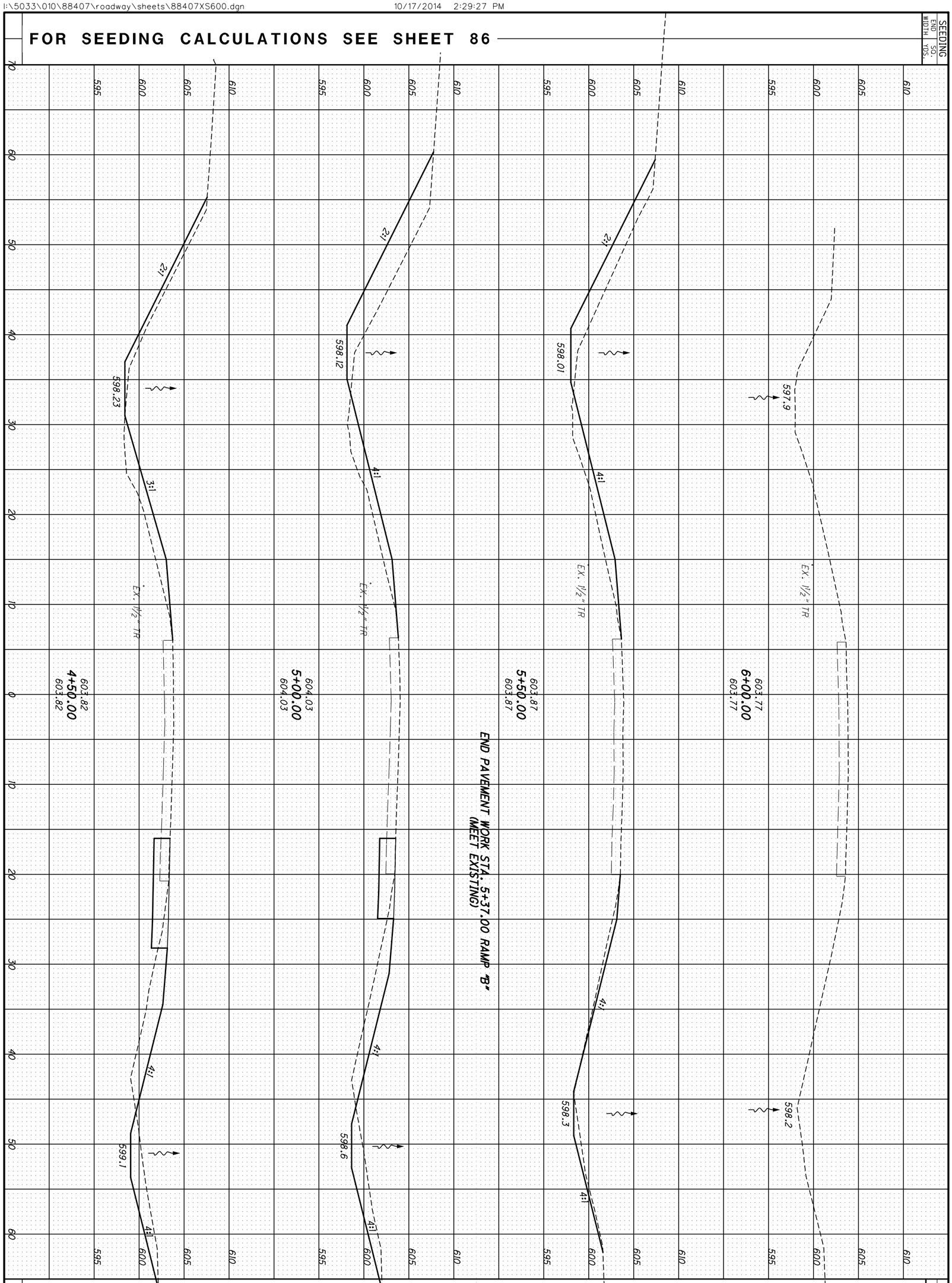
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

271
677

ERI-250-0.00

CROSS SECTIONS RAMP "B"
STA. 4+50.00 TO STA. 6+00.00

CALCULATED JJ
CHECKED GAB

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

RES. #1115 · RES. #1201 · RES. #1205

Res. Drive CONC. · Sta. 20+00.00 P.I. Sta. 362+33.47 · +18, Res. Drive CONC. · +72, Res. Drive CONC.

CONST. LIMITS · DR76 · D1 · DR77 · D2 · S1 · DR78 · MB1

GRASS · Ex R/W · EX. 15" · 60.00' · (2) 10'-15"C · (4)MTD (QL-D) · (9)MTD(FO)(QL-D) · 8" W · 4" GAS · FO · G · T · SAN · 4" W · Ex U · 4" GAS TELE. CABLES (RT.) · 15" W · 8" WAT. · 12" · 15" · EXISTING STONE WALL DO NOT DISTURB

51 · 19 · 362 · 20 · 363 · 21 · 364 · 29

N 88° 56' 10" W · ℄ CONST. BOGART RD. · S 88° 38' 56" E · S. LINE SEC. 2 · N. LINE SEC. 1 · MATCH LINE: STA. 365+00

BOTAY RD. · AGRICULTURE · GRICULTURE · ASPH. · +91, Res. Drive

---

65.00' @ +0.72% · 50.00' VC · 125.00' @ +0.84%

P.V.I. STA 363+50.00 ELEV = 612.76'

612.22 · 612.40 · 612.58 · 612.77 · 612.97 · 613.18 · 613.39 · 613.60 · 613.81 · 614.02

625 · 620 · 615 · 610 · 605 · 600 · 595 · 590

STA. 362+60.00 ELEV.=612.11 MEET EX.

PVC STA. 363+25.00 ELEV.=612.58

PVT STA. 363+75.00 ELEV.=612.97

PVC STA. 365+00.00 ELEV.=614.02

+0.72 % · +0.84 %

(SV 10529) STA. 361+98.1, 27.2'RT EX. CB = 610.70 ℄ 6" SW=608.90

(SV 10427) STA.361+96.8, 16.2' RT. EX. SAN. MH = 611.40 ℄ 12" E=597.40 (DROP) ℄ 15" SW=600.80 ℄ 15" W=595.90

(SV 10831) STA. 361+19.8, 34.9' LT. EX. CB = 608.52 FULL OF DEBRIS

EXIST. PROFILE GRADE

(SV 10914) STA. 361+29.5, 50.6' RT. EX. CB = 609.60 ℄ 12" E=607.80 ℄ 12" W=606.80

(SV 10569) STA. 362+37.3, 51.7' RT. EX. CB = 610.12 ℄ 4" SW=608.42 ℄ 6" SE=608.22 ℄ 8" SW=608.42 ℄ 12" W=608.42

(SV 10804) STA. 362+20.7, 23.5' LT. EX. CB = 610.78 ℄ 6" S=608.68 ℄ 15" E&W=605.68

TO BE REMOVED (SV 10779) STA. 363+41.1, 23.3' LT. EX. CB = 611.82 ℄ 4" W=610.82 ℄ 15" E&W=607.12

STA. 364+36.4, 6.7' LT. 6'X3.5'X5' TELE. VAULT

TO BE REMOVED (SV 10764) STA. 363+90.1, 23.4' LT. EX. CB = 612.19 ℄ 15" E&W=607.39

PROP. PROFILE GRADE

ADJUST TO GRADE (SV 10404) STA. 364+55.7, 18.0' RT. EX. SAN. MH = 613.27 ℄ 12" E&W=602.87

1 STA. 363+47.0, 23.3' LT. PROP CB-2-2B, AS PER PLAN T/GRATE = 611.85 ℄ 15" E+W = 607.15

2 STA. 363+96.0, 23.4' LT. PROP CB-2-2B, AS PER PLAN T/GRATE = 612.23 ℄ 15" E+W = 607.46

EXISTING PROFILE ALONG ℄ CONST. · 610.86 · 611.27 · 611.67 · 612.04 · 612.41 · 612.76 · 613.19 · 613.62 · 613.97

361+00 · 362+00 · 363+00 · 364+00 · 365+00

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED · CHECKED

PLAN AND PROFILE - BOGART RD. STA. 361+00 TO STA. 365+00

ERI-250-0.00

272 / 677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

1. STA. 365+05.7, 28.1' LT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 612.99
℄ 12" S = 608.79
℄ 15" E+W = 608.79

2. STA. 356+15.0, 22.7' RT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 613.38
℄ 12" N = 609.31

3. STA. 365+95.0, 30.2' LT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 613.74
℄ 12" S = 609.51
℄ 15" W = 610.51

4. STA. 368+21.5, 31.0' RT
PROP MH-3, AS PER PLAN
T/RIM = 614.71
℄ 6" NW = 612.1±
℄ 12" E = 611.03
℄ 12" SW = 612.5±

5. STA. 369+11, 26.0' RT
PROP CB-3, AS PER PLAN
T/GRATE = 613.55
℄ 12" W&N = 610.12
℄ 4" UD E&W = 610.28

6. STA. 369+11, 26.32' LT
PROP CB-3, AS PER PLAN
T/GRATE = 613.55
℄ 12" N&S=609.60
℄ 4" UD E&W = 610.28

7. STA. 369+11, 36.0' LT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 614.00
℄ 12" S&E=609.50

P.I. Sta. 370+09.93
Δ = 11° 36' 15" (LT)
Dc = 5° 00' 00"
R = 1,145.92'
T = 116.44'
L = 232.09'
E = 5.90'
C = 231.69'
C.B. = N 85° 32' 56" E

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - BOGART RD. STA. 365+00 TO STA. 369+50

ERI-250-0.00

273
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
314 & 315	Intersection Detail
167	US-250 (Milan Rd) Plan and Profile

P.I. Sta. 370+09.93
Δ = 11° 36′ 15″ (LT)
Dc = 5° 00′ 00″
R = 1,145.92′
T = 116.44′
L = 232.09′
E = 5.90′
C = 231.69′
C.B. = N 85° 32′ 56″ E

MATCH LINE: STA. 369+50

MATCH LINE: STA. 374+00

MILAN RD. US-250

℄ CONST. BOGART RD.

STA. 373+00, 44′ LT. FIRE HYDRANT REMOVED AND RESET

TO BE RELOCATED BY OWNER

CONST. LIMITS

+22, Res. Drive

215′-4″ UD

165′-4″ UD

99′-4″ UD

SAW CUT

ENCROACHMENTS REMOVED

MANNY'S SPORTS TAVERN #6201

+02, Com. Drive Removed

GUARDRAIL REMOVED

122′-12″ B/C @ 0.22%

DO NOT DISTURB

STA. 227+66.68 US 250=
STA. 370+85.62 BOGART RD.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

CALCULATED | CHECKED

PLAN AND PROFILE - BOGART RD.
STA. 369+50 TO STA. 374+00

ERI-250-0.00

274
677

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	370+00	371+00	372+00	373+00	374+00
PROP. PROFILE GRADE	614.23	614.36	614.57	614.84	615.17
	615.56	615.96	616.28	616.51	616.63
	616.64	616.56	616.37	616.12	615.86
	615.60	615.38	615.24	615.17	
EXISTING PROFILE ALONG ℄ CONST.	612.97	613.43	615.48	616.82	616.82
	615.85	614.38	613.40	612.79	

220.00′ VC
P.V.I. STA 369+50.00
ELEV = 613.58′
LOW PT. STA. 369+11.26, ELEV. = 614.15

35.00′ @+1.59%

160.00′ VC
P.V.I. STA 371+75.00
ELEV = 617.15′
HIGH PT. 371+91.99
HIGH PT. ELEV=616.65

70.00′ @-1.03 %

350.00′ VC
P.V.I. STA 375+00.00
ELEV = 613.80′
LOW PT. STA. 374+10.95
LOW PT. ELEV. = 615.16

PVT STA. 370+60.00
PVT ELEV.=615.33

PVC STA. 370+95.00
PVC ELEV.=615.88

PVT STA. 372+55.00
PVC ELEV.=616.33

PVC STA. 373+25.00
PVC ELEV.=615.60

TO BE REMOVED
(SV 11312)
STA. 370+18.7, 56.9′ LT.
EX. CB = 612.87
℄ W = 610.57

(SV 5772)
STA. 369+62.1, 39.4′ LT.
EX. MH = 612.68
℄ 12″ N,W&SE=609.08 (PLUG SE)

TO BE REMOVED
(SV 5766)
STA. 369+89.3, 67.8′ LT.
EX. CB = 611.66
℄ 12″ SW=609.36

TO BE REMOVED
(SV 11311)
STA. 369+85.3, 20.0′ LT.
EX. CB = 612.19
℄ 12″ NE&NW=609.49

TO BE REMOVED
(SV 5769)
STA. 369+82.0, 55.4′ LT.
EX. CB = 611.69
℄ 12″ NE=608.89
℄ 4″ S=608.89

ADJUST TO GRADE
STA. 371+41.8, 16.3′ LT.
EX WAT. MH= 616.73
6″ N ABANDONED
6″ SOUTH

RECONSTRUCT TO GRADE
STA. 371+53.4, 20.5′ LT.
EX. WAT. MH= 616.89
12″ WATER CROSING SOUTH

ADJUST TO GRADE
STA. 371+25.6, 26.5′ LT.
EX. WATER MH= 616.34
8″X12″ REDUCER

(SV 6031)
STA. 371+98.27, 51.6′ RT.
EX. SAN. MH = 617.37
EX. 15″ S&E = 598.07

PROP. PROFILE GRADE

EXIST. PROFILE GRADE

6″ GAS CROSSING

6″ WAT. CROSSING

6″ WATER ABANDONED

16″ WAT. NORTH

16″ WAT. SOUTH

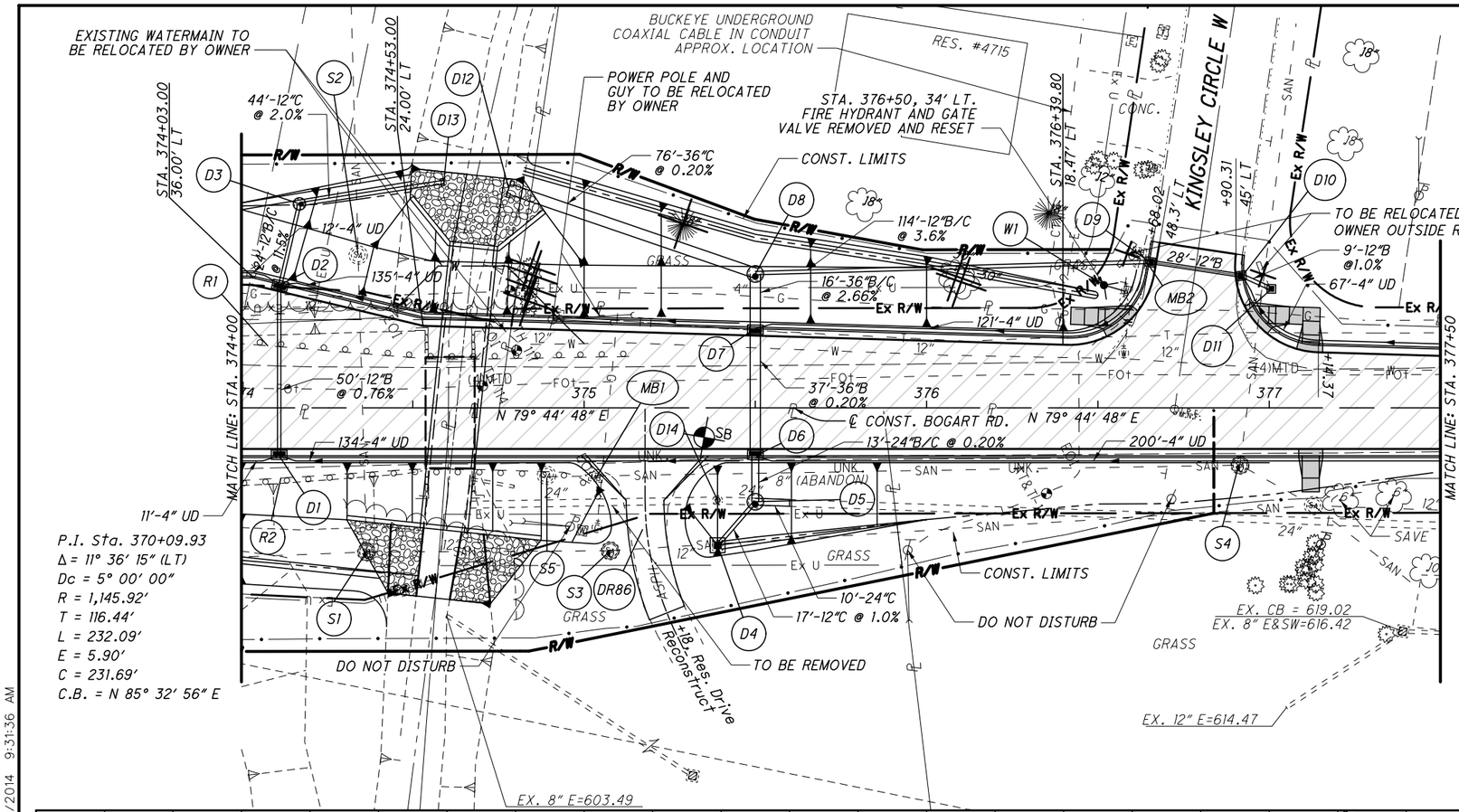
12″B/C TELE. CABLES (RT.)

12″ WAT.

STA. 374+97.5, 5.7′ LT.
6′X3.5′X5′ TELE. VAULT

5 STA. 371+78.0, 33.3′ RT
PROP CB-3, AS PER PLAN
T/GRATE = 615.78
℄ 12″ E = 612.97

6 STA. 373+00.0, 37.0′ LT
PROP HW-2.1/HW-2.2
℄ 12″ W = 612.70



CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
97	Sanitary Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
316	Intersection Detail
494 - 499	Culvert Plans

1. STA. 374+11.0, 14.0' RT
PROP CB-3, AS PER PLAN
T/GRATE = 614.77
℄ 12" N = 611.00
℄ 4" UD E+W = 611.50

2. STA. 374+11.3, 36.1' LT
PROP CB-3, AS PER PLAN
T/GRATE = 614.41
℄ 12" N+S = 610.62
℄ 4" UD E+W = 611.14

3. STA. 374+17.0, 59.6' LT
PROP MH-3, AS PER PLAN
T/RIM = 610.90
℄ 12" S = 607.86
℄ 12" E = 603.48

4. STA. 375+39, 40.1' RT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 612.64
℄ 12" NE = 609.64

5. STA. 375+50, 27.4' RT
PROP MH-3, AS PER PLAN
T/RIM = 614.50
℄ 12" SW = 609.47
℄ 24" E+N = 602.77

6. STA. 375+50, 14.0' RT
PROP CB-3A, AS PER PLAN
T/GRATE = 615.92
℄ 36" N = 602.65
℄ 24" S = 602.74
℄ 4" UD E = 612.65

7. STA. 375+50, 23.1' LT
PROP CB-3A, AS PER PLAN
T/GRATE = 615.77
℄ 36" N+S = 602.67
℄ 4" UD E = 612.50

8. STA. 375+50, 39.0' LT
PROP MH-3, AS PER PLAN
T/RIM = 614.10
℄ 36" S+W = 602.64
℄ 12" E = 610.60

9. STA. 376+65.0, 42.6' LT
PROP CB-3A, AS PER PLAN
T/GRATE = 618.04
℄ 12" E+W = 613.63

10. STA. 376+92.2, 38.6' LT
PROP CB-3A, AS PER PLAN
T/GRATE = 617.96
℄ 12" W+E = 613.91
℄ 4" UD N+S = 614.69

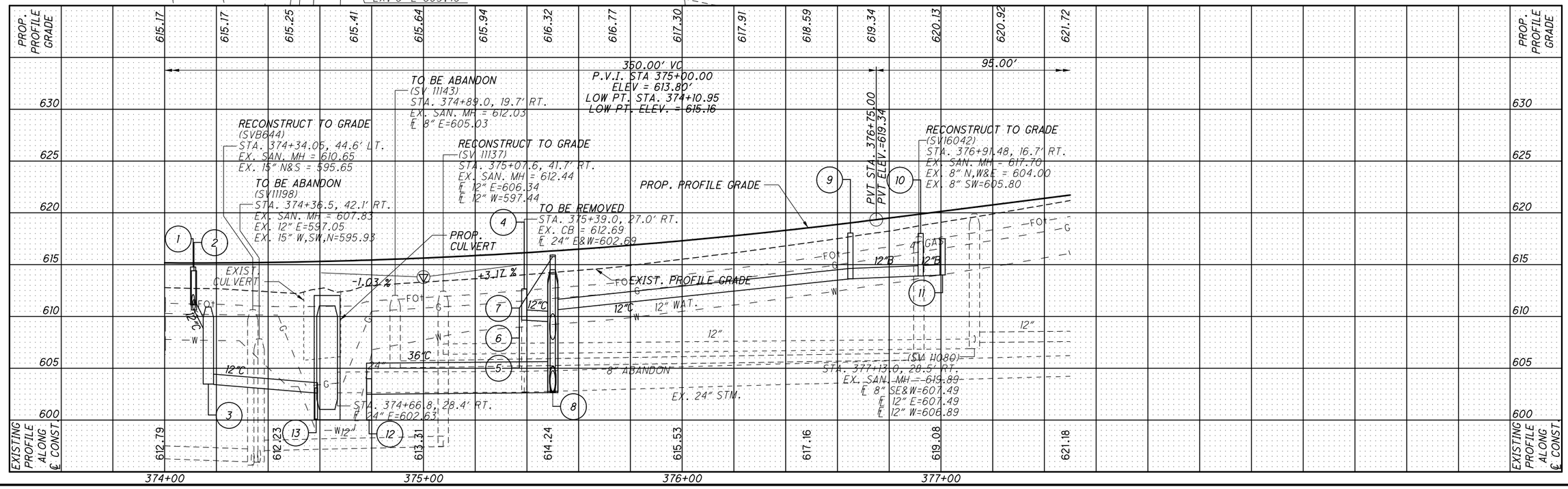
11. STA. 377+00.0, 34.0' LT
PROP CB-2-2B, AS PER PLAN
T/GRATE = 617.50
℄ 12" W = 614.00

12. STA. 374+78.00, 64.00' LT.
PROP HW-2.1/2.2
℄ 36" E = 602.49

13. STA. 374+59.08, 65.98' LT.
PROP HW-2.1/2.2
℄ 12" W = 602.60

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- TH # Quality Level A Test Hole



HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN AND PROFILE - BOGART RD.
STA. 374+00 TO STA. 377+50

ERI-250-0.00

275
677

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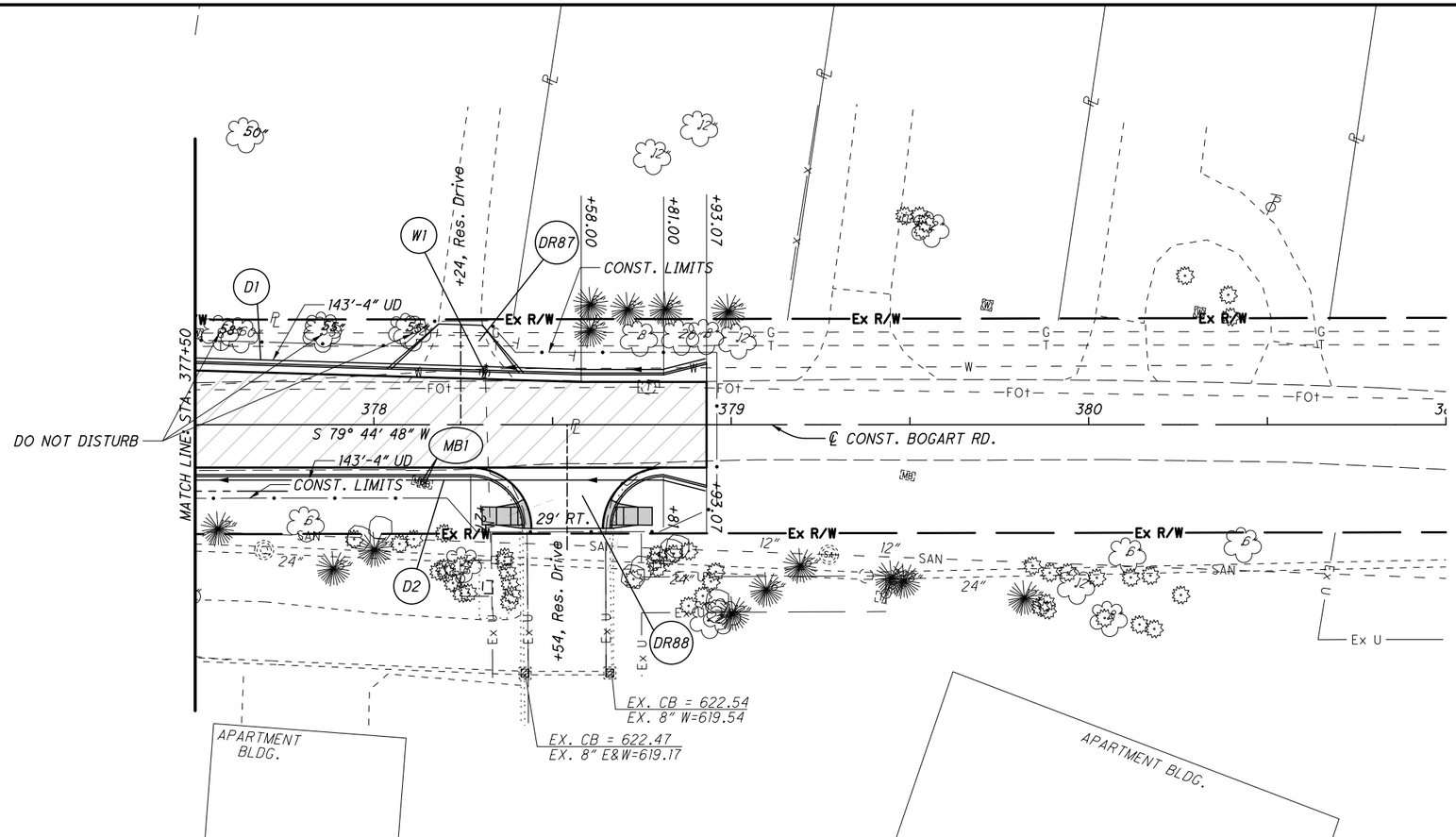
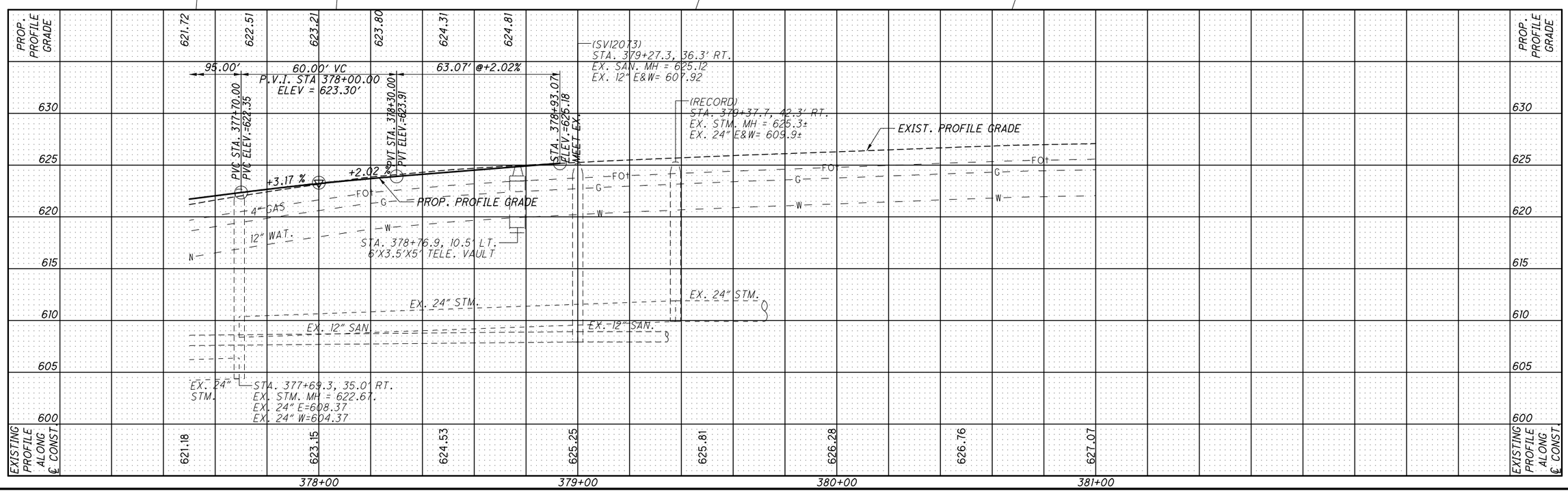
CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
90	Mailbox Subsummaries
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries





LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN AND PROFILE - BOGART RD.
STA. 377+50 TO STA. 381+00

ERI-250-0.00

276
677

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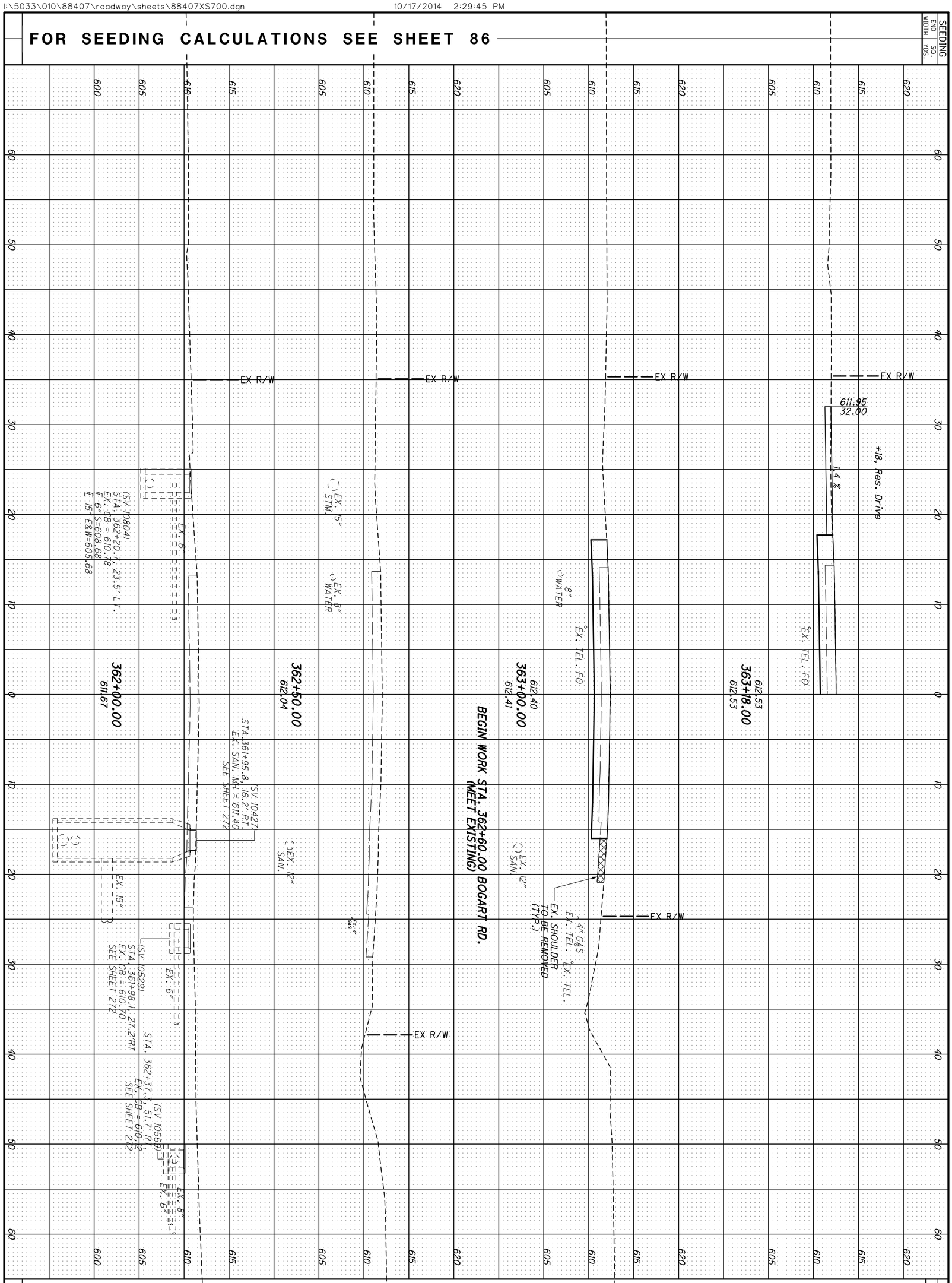
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

277
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 362+00.00 TO STA. 363+18.00

CALCULATED: JJ
CHECKED: GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

620 615 610 605

EX R/W

ADJUST TO GRADE
(SV 10404)
STA. 364+55.7 18.0' RT.
EX. SAN. MH = 613.27
SEE SHEET 272

EX. 12" STM.

EX. 8" WATER

EX. TEL. FO

EX. 4" GAS

EX. TEL.

4 %

STA. 364+36.4, 6.7' LT.
6'X3.5'X5.5' TELE. VAULT

613.60
364+50.00
613.62

TO BE REMOVED
(SV 10764)
STA. 363+90.1, 23.4' LT.
EX. CB = 612.19
SEE SHEET 272

D2 STA. 363+96.0, 23.4' LT
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 272

613.18
364+00.00
613.19

EX. SHOULDER
TO BE REMOVED
(TYP.)

4" GAS

EX. 12" SAN.

+72, Res. Drive

613.34
32.00

6.4%

612.94
363+72.00
612.95

D1 STA. 363+47.0, 23.3' LT
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 272

TO BE REMOVED
(SV 10779)
STA. 363+41.1, 23.3' LT.
EX. CB = 611.82
SEE SHEET 272

612.77
363+50.00
612.76

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS BOGART RD
STA. 363+50.00 TO STA. 364+50.00

ERI-250-0.00

278
677

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ

CHECKED GAB

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS BOGART RD
STA. 364+91.00 TO STA. 365+50.00

ERI-250-0.00

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60 50 40 30 20 10 0 10 20 30 40 50 60

620 615 610 605

TMP — EX R/W — R/W

+47, Res. Drive

EX. 12" — EX. TEL. FO — 3" GAS — EX. TEL.

EX. 8" WATER

TO BE REMOVED
(SV 10718)
STA. 365+89.9, 24.6' LT
EX. CB = 613.71
SEE SHEET 273

(SV 10646)
STA. 365+90.9, 22.5' RT.
EX. CB = 613.47
SEE SHEET 273

EX. 12" SAN.

614.38
365+50.00
614.42

+47, Res. Drive

TMP — EX R/W — 613.00 36.00 — R/W

0.2 %

EX. 15" STM. — EX. 8" WATER — EX. TEL. FO

614.36
365+47.00
614.40

EX R/W — +91, Res. Drive — EX R/W — R/W

6:1

EX. 12" — EX. TEL. FO — 4" GAS — EX. TEL.

8" WATER — 6" WATER — 12"B

D1 STA. 365+05.7, 28.1' LT
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 273

TO BE REMOVED
(SV 10749)
STA. 365+03.4, 24.6' LT.
EX. CB = 612.99
SEE SHEET 273

TO BE REMOVED
(SV 10623)
STA. 365+10.0, 22.7' RT.
EX. CB = 613.34
SEE SHEET 273

614.02
365+00.00
613.97

EX. 12" SAN.

D2 STA. 356+15.0, 22.7' RT
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 273

+91, Res. Drive — EX R/W — R/W

613.61 28.00 — 0.1%

EX. TEL.

613.94
364+91.00
613.91

EX. 12" SAN.

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FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA
CUT | FILL

VOLUME
CUT | FILL

280
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 365+67.00 TO STA. 366+50.00

CALCULATED JJ
CHECKED GAB

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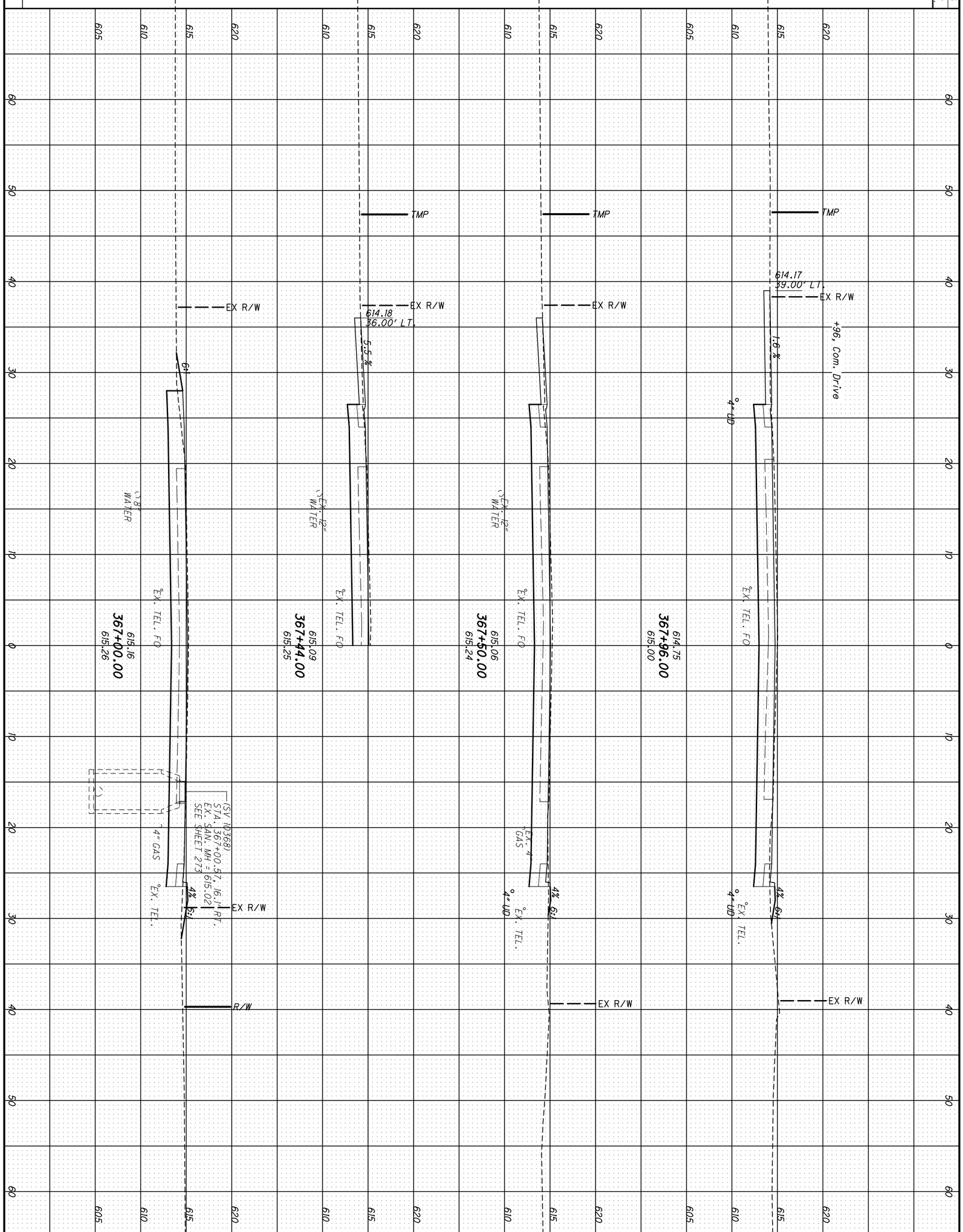
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

281
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 367+00.00 TO STA. 367+96.00

CALCULATED JJ
CHECKED GAB

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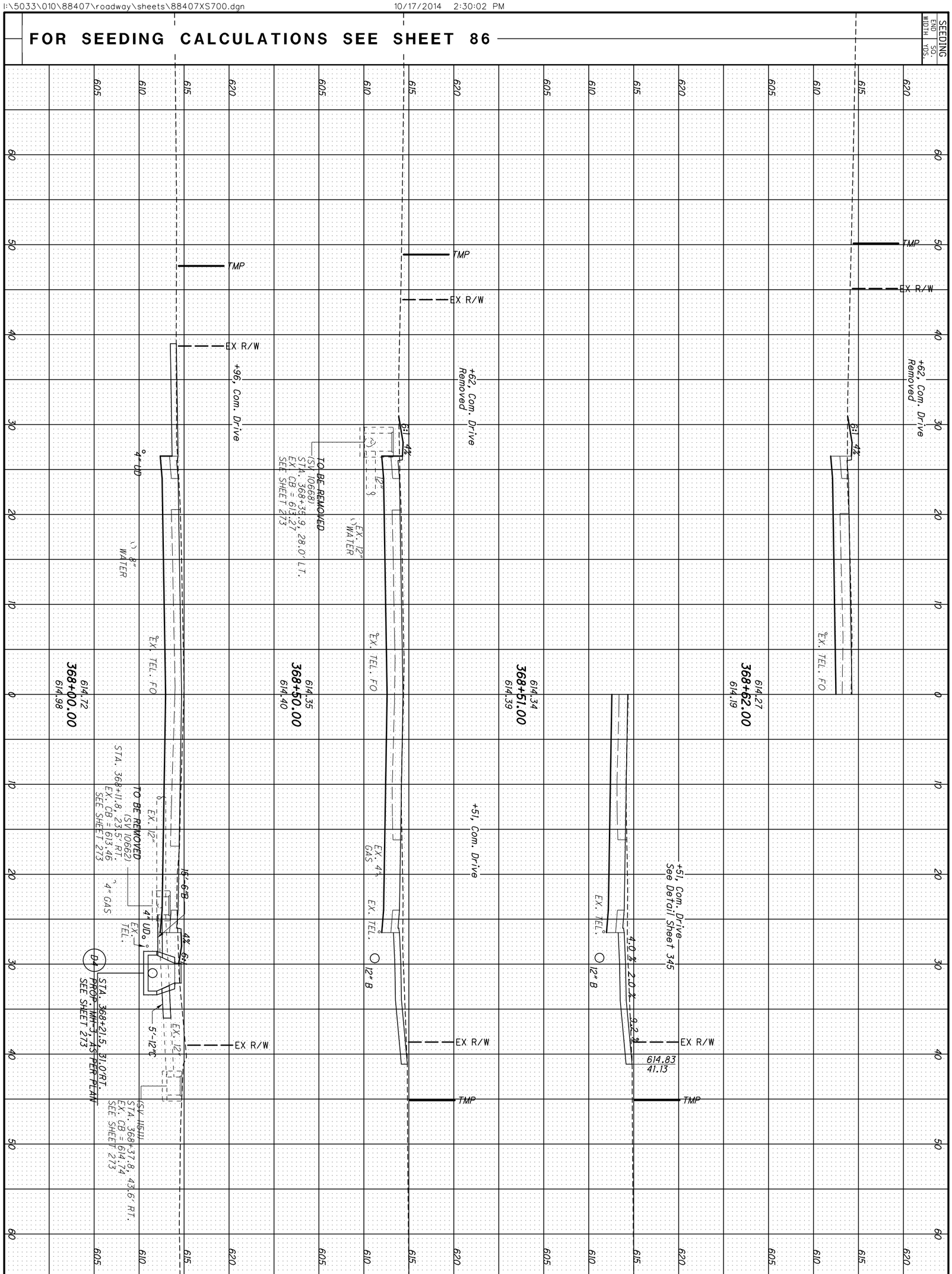
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.

FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL — VOLUME: CUT | FILL



282 / 677	ERI-250-0.00	CROSS SECTIONS BOGART RD STA. 368+00.00 TO STA. 368+62.00	CALCULATED JJ CHECKED GAB

SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

625 620 615 610 605

R/W

EX SH

EX LA

EX. TEL.

9 %

EX. 6" GAS

RECONSTRUCT TO GRADE
STA. 371+53.4, 20.5' LT.
EX. WAT. MH= 616.89

EX. 6"

EX. TEL.

EX. TEL. FO

EX. 4" GAS

4" GAS

EX. TEL.

616.51
371+50.00
616.82

RESUME WORK STA. 371+18.93
BOGART RD. (MEET EXISTING US-250)

SUSPEND WORK STA. 370+52.58
BOGART RD. (MEET EXISTING US-250)

+02, Com. Drive Removed

EX R/W

614.93
43.9' RT.

TMP

EX. GAS

PAVEMENT REMOVED

EX. TEL. FO

EX. (2) MTD

12" WL

614.57
370+00.00
612.94

TMP

EX R/W

TO BE REMOVED
(SV 5766)
STA. 369+89.3, 67.8' LT.
EX. CB = 611.66
SEE SHEET 274

7 %

EX. 12"

4" UD

8" WATER

TO BE REMOVED
(SV 11311)
STA. 369+85.3, 20.0' LT.
EX. CB = 612.19
SEE SHEET 274

EX. TEL. FO

EX. TEL.

2" GAS
12" WL

4:1

EX R/W

TO BE REMOVED
(SV 11312)
STA. 370+18.7, 56.9' LT.
EX. CB = 612.87
SEE SHEET 274

TO BE REMOVED
(SV 5769)
STA. 369+82.0, 55.4' LT.
EX. CB = 611.69
SEE SHEET 274

614.23
369+50.00
612.97

TMP

EX R/W

D7 STA. 369+11.0, 36.0' LT.
PROP. CB 2-2B, AS PER PLAN
SEE SHEET 273

1.7 %

10'-12"B @ 1.0%

4" UD

EX. TEL. FO

52'-12" B @ 1.0%

+06, Com. Drive Removed

EX R/W

615.12
40.8' RT.

TMP

PAVEMENT REMOVED

EX. TEL.

MAINTAIN 18" CLEARANCE

12" WL

D5 STA. 369+11.0, 26.0'RT.
PROP. CB-3, AS PER PLAN
SEE SHEET 273

D6 STA. 369+11.0, 26.32'LT.
PROP. CB-3, AS PER PLAN
SEE SHEET 273

STA. 369+18.0, 6.9' LT.
6'X3.5'X5.25' TELE. VAULT

614.15
369+00.00
613.57

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS BOGART RD
STA. 369+00.00 TO STA. 371+50.00

ERI-250-0.00

283
677

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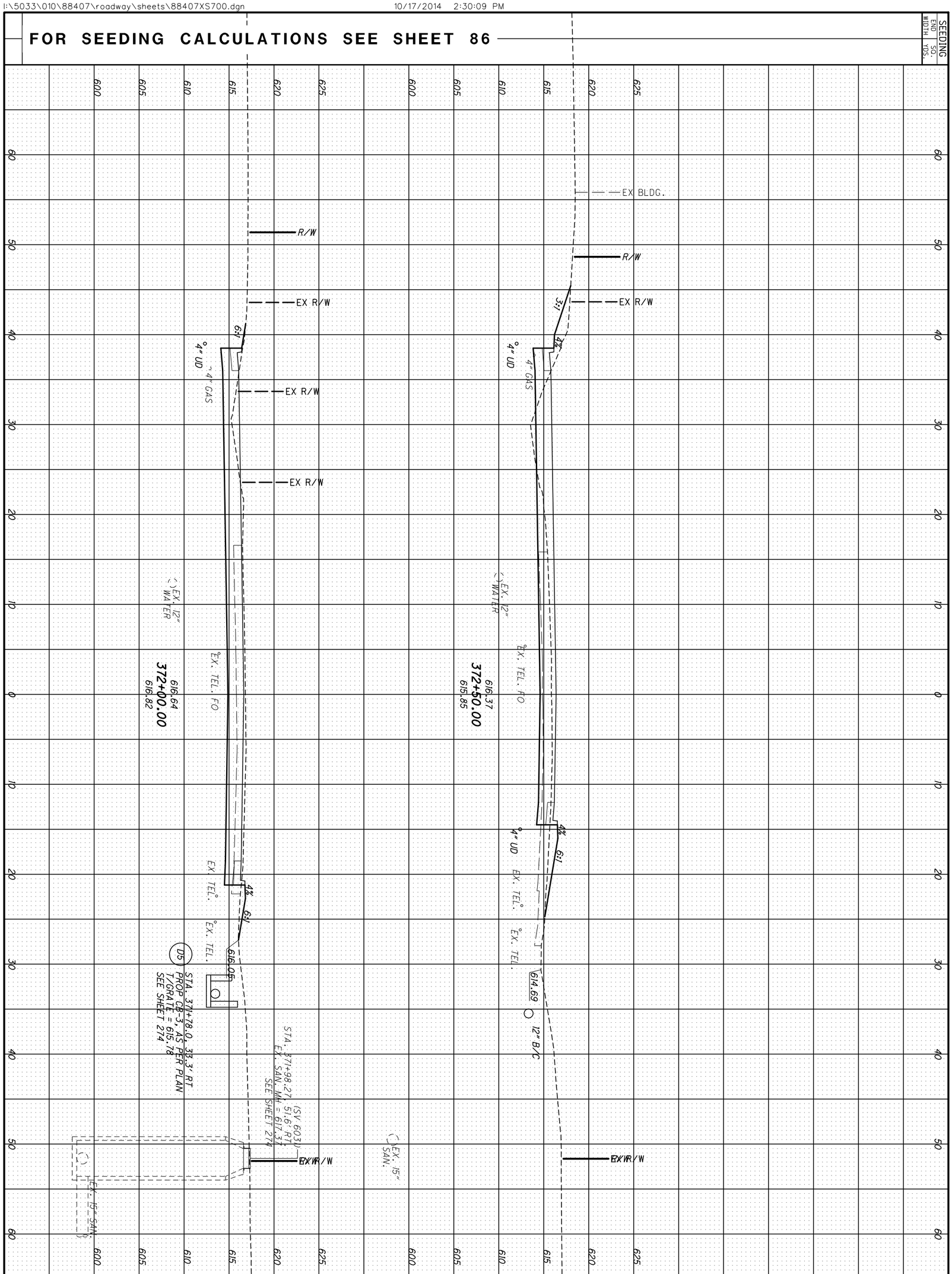
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

284
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 372+00.00 TO STA. 372+50.00

CALCULATED JJ
CHECKED GAB

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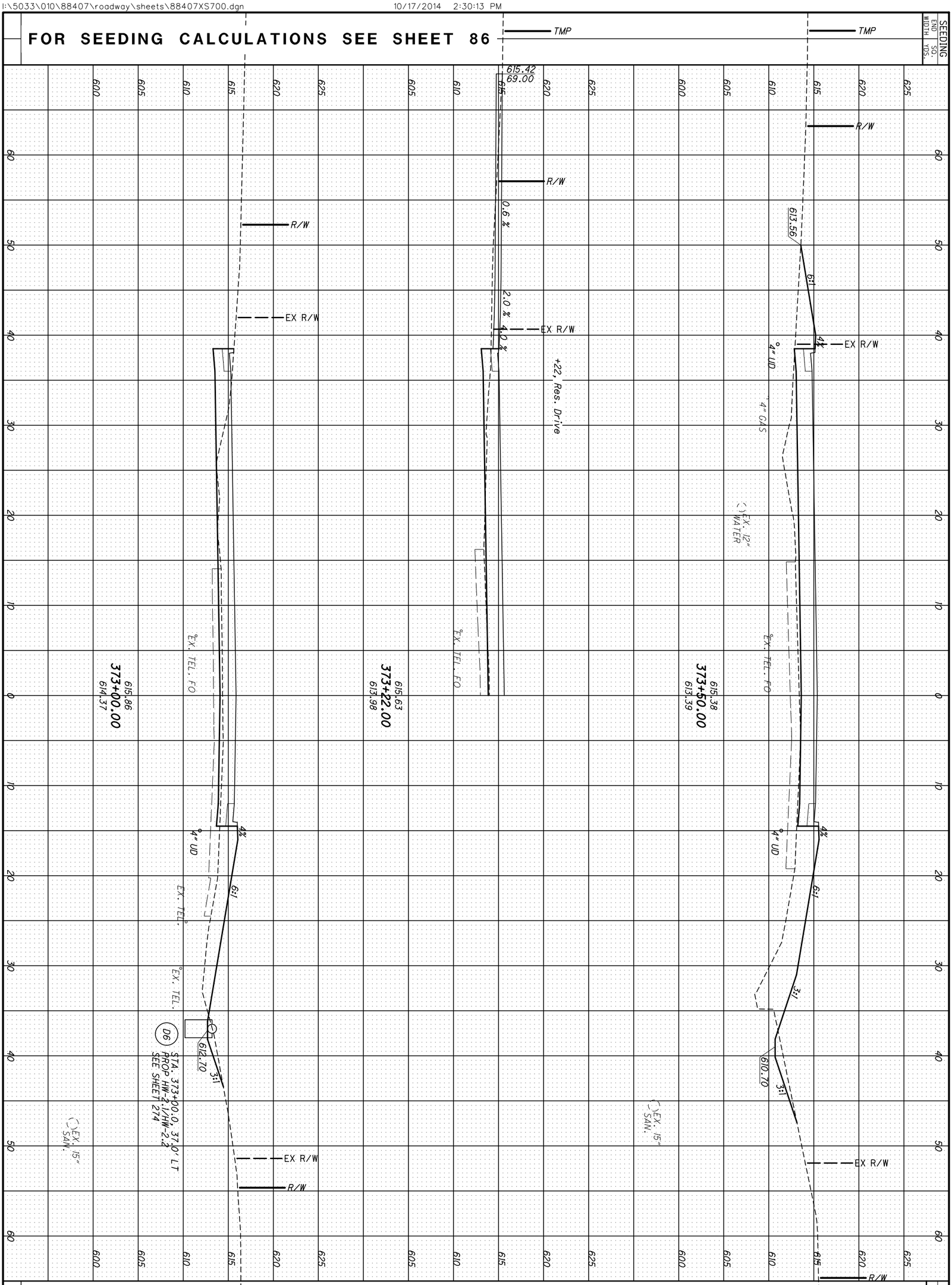
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

285
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 373+00.00 TO STA. 373+50.00

CALCULATED JJ
CHECKED GAB

SEEDING

END WIDTH	SQ. YDS.

60 50 40 30 20 10 0 10 20 30 40 50 60

620 615 610 605 600 595 625

R/W — EX R/W

3:1 6:1 4% 4% 6:1 3:1 3:1

4" UD 4" UD

606.00

36" C

EX. TEL. EX. TEL.

EX. 12" WATER

EX. TEL. FO

615.64
375+00.00
613.31

4" GAS

EX. 8" SAN. (ABANDON)

EX. 24" STM

610.90

(SV 11137)
STA. 375+07.6, 41.7' RT.
EX. SAN. MH = 612.44
SEE SHEET 275

RECONSTRUCT TO GRADE
(SV 11143)
STA. 374+89.0, 19.7' RT.
EX. SAN. MH = 612.03
SEE SHEET 275

D13 STA. 374+59.08, 65.98' LT.
PROP HW-2.1/2.2
℄ 12' W = 602.60

D12 STA. 374+78.00, 64.00' LT.
PROP HW-2.1/2.2
℄ 36' E = 602.49

4" UD 4" UD

EX. TEL. (3)(4) MTD

4" GAS

615.25
374+50.00
612.23

12'X10' BOX CULVERT

STA. 374+66.8, 28.4' RT.
℄ 24" L=602.63

EX. 12" WATER

EXISTING WATERMAIN TO BE RELOCATED BY OWNER

SEE SHEETS 494 - 499 FOR CULVERT PLANS

RECONSTRUCT TO GRADE
(SVB644)
STA. 374+34.05, 44.6' LT.
EX. SAN. MH = 610.65
SEE SHEET 275

D3 STA. 374+17.0, 59.6' LT
PROP. MH-3, AS PER PLAN
SEE SHEET 275

612.00 12"B/C

D2 STA. 374+11.3, 36.1' LT
PROP. CB-3, AS PER PLAN
SEE SHEET 275

4" UD 12"B 4" UD

EX. TEL. FO

D1 STA. 374+11.0, 14.0' RT
PROP. CB-3, AS PER PLAN
SEE SHEET 275

TO BE ABANDON
(SVI1198)
STA. 374+36.49, 42.1' RT.
EX. SAN. MH = 607.83
SEE SHEET 275

608.70

4" GAS

12" WATER

STA. 374+97.5, 5.7' LT.
6'X3.5'X5' TELE. VAULT

615.17
374+00.00
612.79

EX. 15" SAN.

EX. 12" SAN.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS BOGART RD
STA. 374+00.00 TO STA. 375+00.00

ERI-250-0.00

286
677

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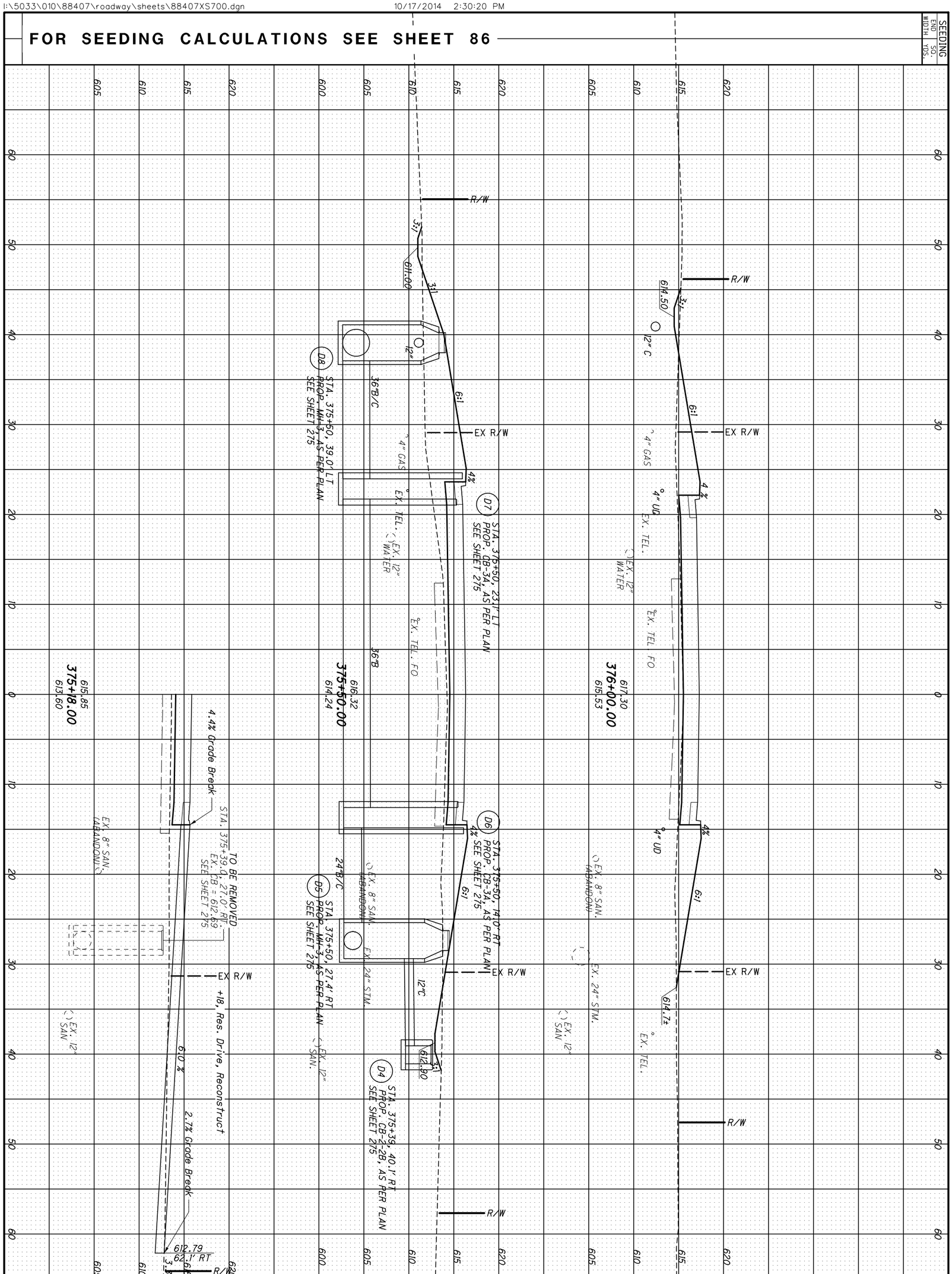
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

287
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 375+18.00 TO STA. 376+00.00

CALCULATED JJ
CHECKED GAB

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED JJ
CHECKED GAB

60 50 40 30 20 10 0 10 20 30 40 50 60

625 620 615 610 605

RECONSTRUCT TO GRADE
(SV16042)
STA. 376+91.48, 16.7' RT.
EX. SAN. MH = 617.70
SEE SHEET 275

EX R/W

(SV 11080)
STA. 377+13.0, 28.5' RT.
EX. SAN. MH = 619.89
SEE SHEET 275

D10 STA. 376+92.2, 38.6' LT
PROP. CB-3A, AS PER PLAN
SEE SHEET 275

617.5±

6:1 4% 4% 6:1

618.78

4" GAS 4" UD EX. TEL. EX. TEL. FO 4" UD

D11 STA. 377+00.0, 34.0' LT
PROP. CB-2-2B, AS PER PLAN
SEE SHEET 275

EX. 12" WATER

620.13
377+00.00
619.08

EX. 8" EX. 8" EX. 8"

EX. 24" STM.

+71.44 INTERSECTION
KINGSLEL CIRCLE WEST

EX R/W R/W

4 % 6:1

4" UD

D9 STA. 376+65.0, 42.6' LT
PROP. CB-3A, AS PER PLAN
SEE SHEET 275

619.23
376+71.44
617.95

EX. 8" SAN. (ABANDON)

EX. 24" STM.

R/W EX R/W EX R/W R/W

6:1 4% 4% 6:1

CTV CTV CTV

617.5± 618.8±

4" GAS 4" UD EX. TEL. EX. TEL. FO 4" UD

TELE. CROSSINGS (376+45±)

12" C

BUCKEYE UNDERGROUND
APPROX. LOCATION

EX. 12" WATER

618.59
376+50.00
617.19

EX. 8" SAN. (ABANDON)

EX. 24" STM.

60 50 40 30 20 10 0 10 20 30 40 50 60

FOR SEEDING CALCULATIONS SEE SHEET 86

FOR EARTHWORK CALCULATIONS SEE SHEET 85

CROSS SECTIONS BOGART RD
STA. 376+50.00 TO STA. 377+00.00

ERI-250-0.00

288
677

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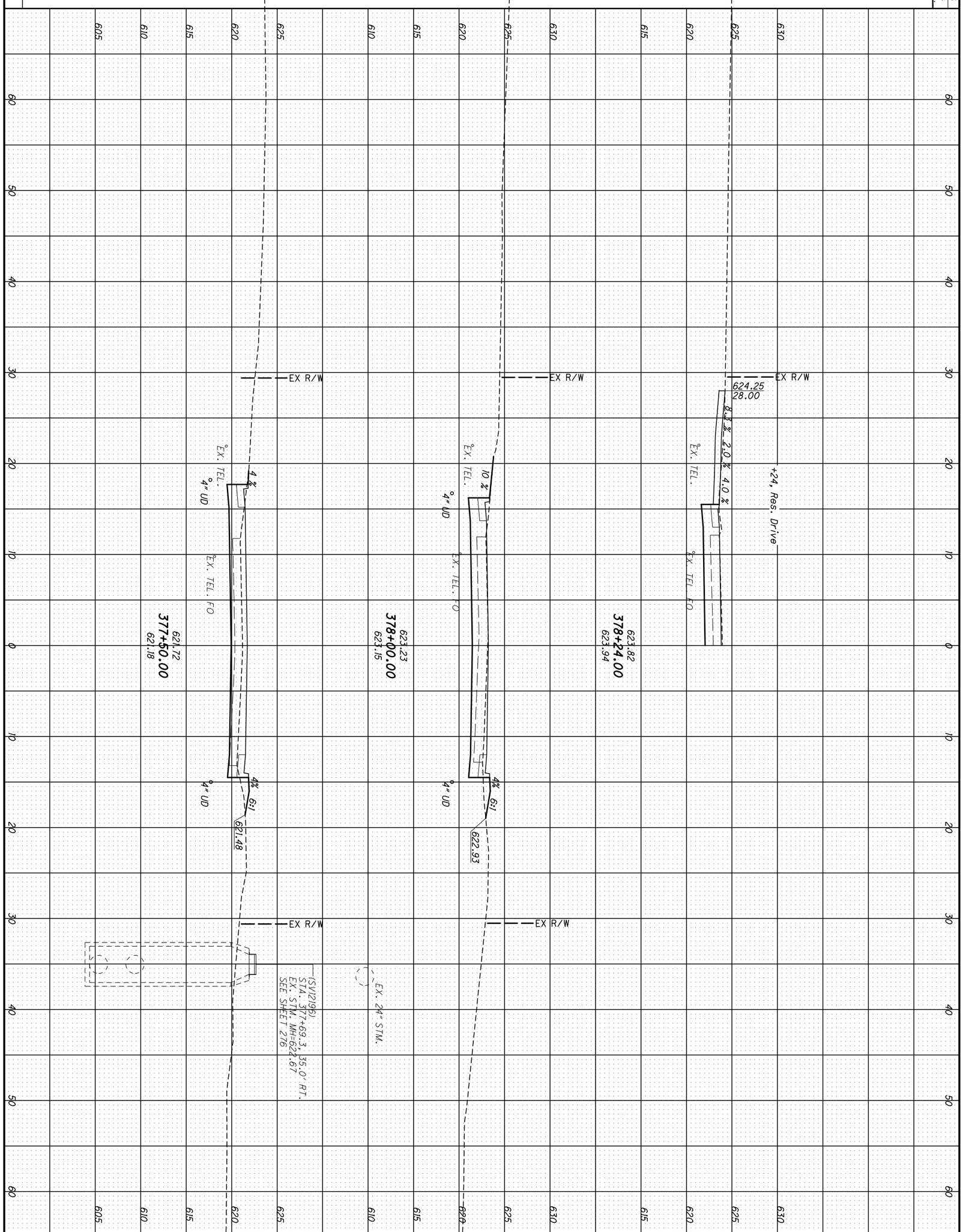
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

289
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 377+50.00 TO STA. 378+24.00

CALCULATED: JJ
CHECKED: GAB

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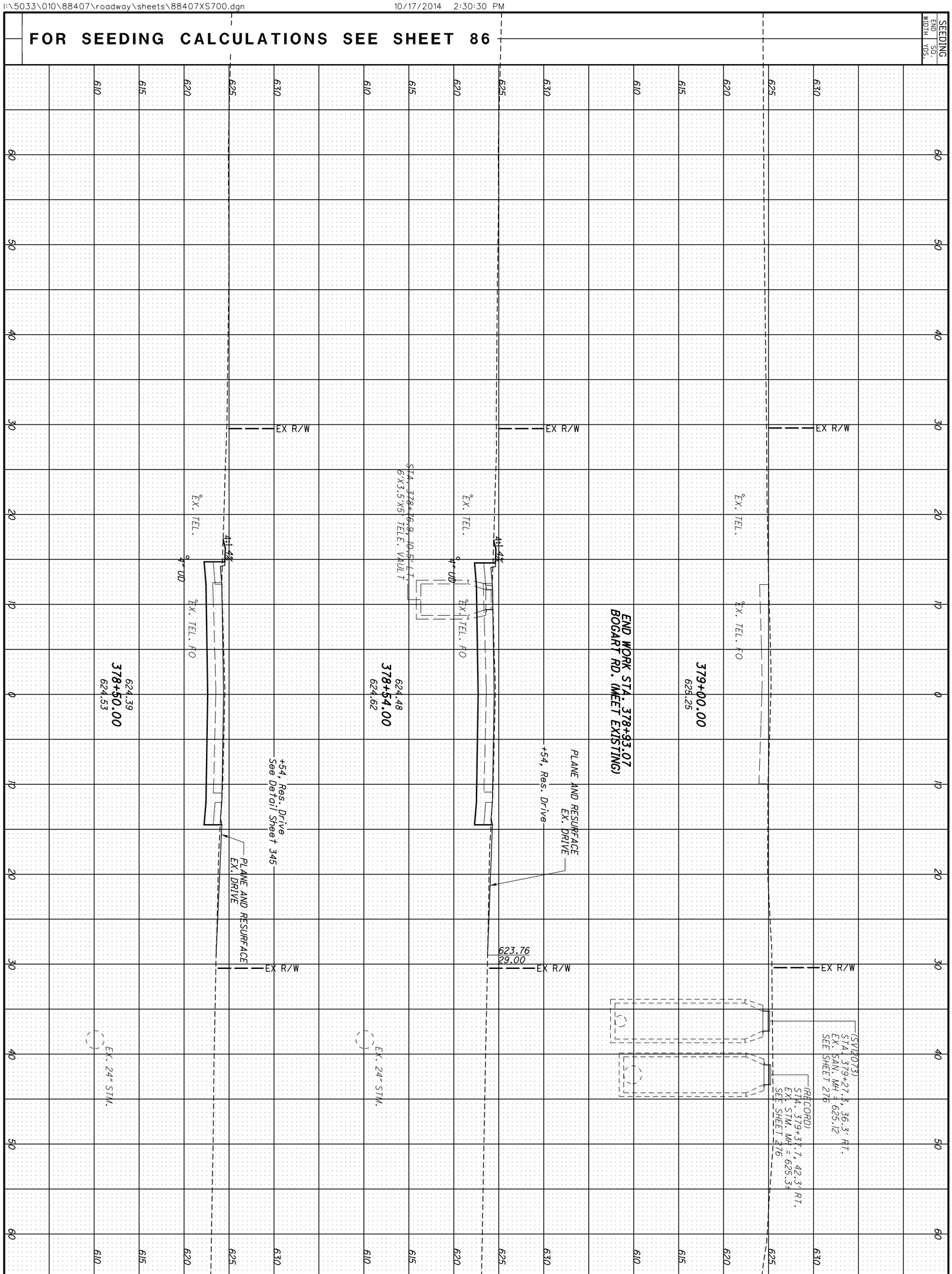
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING: END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA: CUT | FILL
VOLUME: CUT | FILL

290
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 378+50.00 TO STA. 379+00.00

CALCULATED JJ
CHECKED GAB

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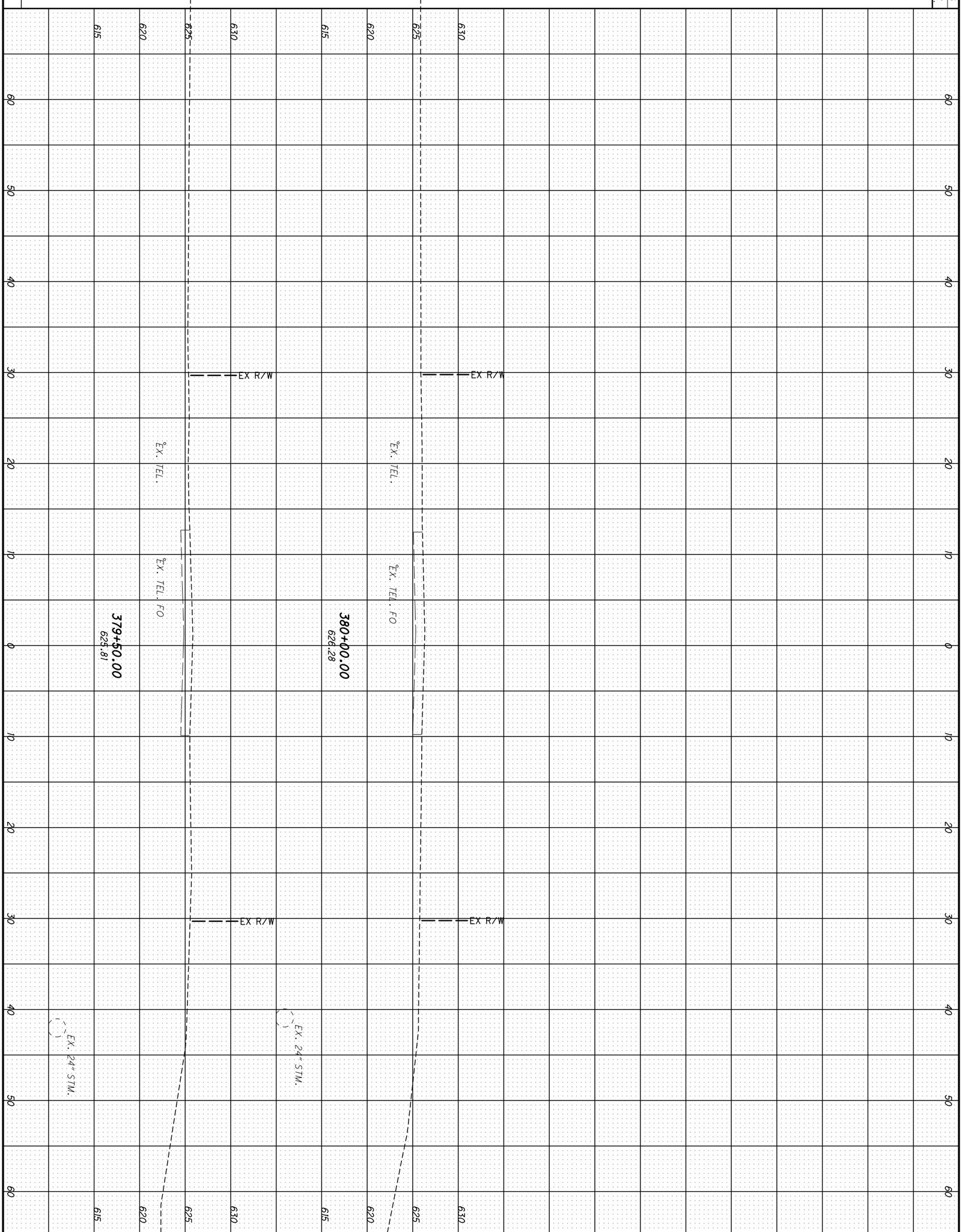
FOR SEEDING CALCULATIONS SEE SHEET 86

SEEDING
END WIDTH | SQ. YDS.



FOR EARTHWORK CALCULATIONS SEE SHEET 85

END AREA CUT | FILL
VOLUME CUT | FILL

291
677

ERI-250-0.00

CROSS SECTIONS BOGART RD
STA. 379+50.00 TO STA. 380+00.00

CALCULATED JJ
CHECKED GAB

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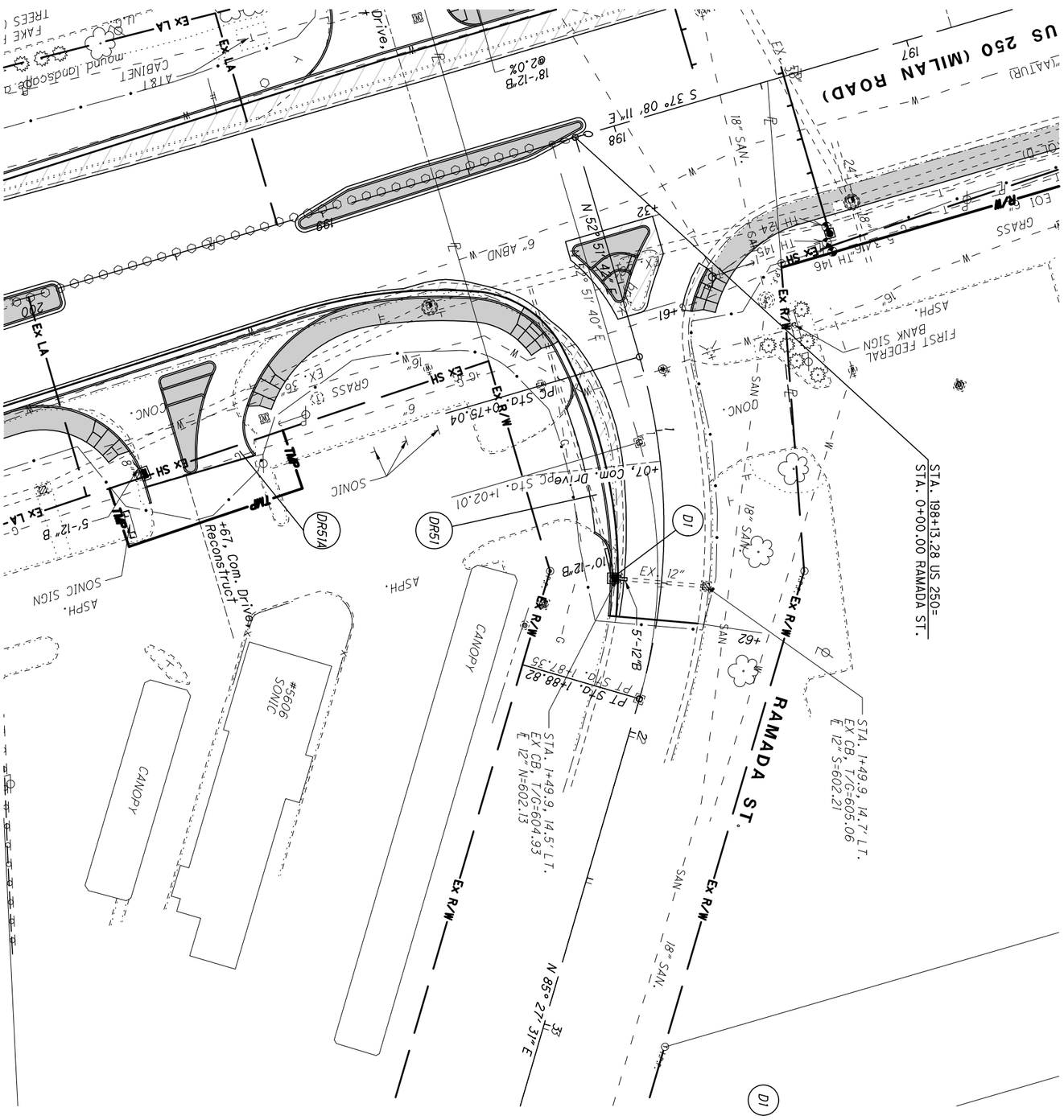

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
309	Intersection Detail
161	US-250 (Milan Rd) Plan and Profile

292 / 677	ERI-250-0.00	PLAN DETAIL SHEET RAMADA STREET	CALCULATED CHECKED	0 20 10 40 HORIZONTAL SCALE IN FEET

US 250 (MILAN ROAD)

STA. 202+48.31 US 250=
STA. 14+79.78 RAMP "A"=
STA. 0+00.00 RAMP "B"

CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
310	Intersection Detail
318	Culvert Detail
162	US-250 (Milan Rd) Plan and Profile

℄ RAMP "A"
14+24.00
605.13

℄ RAMP "A"
14+00.00
604.88

℄ RAMP "A"
13+75.00
604.59

℄ RAMP "A"
13+50.00
604.33

℄ RAMP "A"
13+25.00
604.20

℄ RAMP "A"
13+00.00
604.13

FOR EARTHWORK CALCULATIONS SEE SHEET 85
FOR SEEDING CALCULATIONS SEE SHEET 86

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED
CHECKED

PLAN DETAIL SHEET
US 250 AND RAMP "A"

ERI-250-0.00

293
677

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CROSS REFERENCE	
87	Walk & Curb Ramp Subsummaries
88-89	Removals & Pull Box Removals
91-96	Drainage Subsummaries
98-99	Water Subsummaries
319-320	Driveway Subsummaries
312	Intersection Detail
164	US-250 (Milan Rd) Plan and Profile

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt) See Sheet 17 for Build Up

RAMP "C"

+85

19.4'

6.0'

+50.00

DENSE VEGETATION

+08, Landscape Access Drive

+96.00
19.75' LT

+88.5
17.75' LT

DR53

EX. 18"

16"

6" WCI - C(ATUR)

EOI

+86
19' RT

CURB, TYPE B

ROCK, CHANNEL PROTECTION TYPE C, 2'-0" THICK W/ FILTER

55'-30"B @ 0.50%

6'-24"B

16'-12"B @ 1.0%

6'-12"B

EX. 24"

EX. 15"

EX. 84" X 76"

EX. 84" X 71"

Ex LA

Ex SH

TMP

ELASH

SPEEDWAY

GAS PUMPS

+14, Com. Drive, Remove

KEROSENE PUMP

CONC.

BRUSH

mulch

bushes

GRASS

SPEEEDWAY SIGN U.G.

+18, Com. Drive, No Work

STL. POST

ELEC. BOX

WOO

212

213

214

215

N 37° 8' 11" W

US 250 (MILAN ROAD)

STA. 212+98.65 US 250=
STA. 0+00.00 RAMP "C"=
STA. 15+89.00 RAMP "D"

FOR EARTHWORK CALCULATIONS SEE SHEET 85

FOR SEEDING CALCULATIONS SEE SHEET 86

℄ RAMP "C"
1+85.33
604.80

℄ RAMP "C"
1+50.00
605.02

℄ RAMP "C"
1+25.00
605.30

℄ RAMP "C"
1+00.00
605.54

℄ RAMP "C"
0+75.00
605.75

℄ RAMP "C"
0+53.00
606.20

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED | CHECKED

PLAN DETAIL SHEET
US 250 AND RAMP "C"

ERI-250-0.00

294
677

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NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

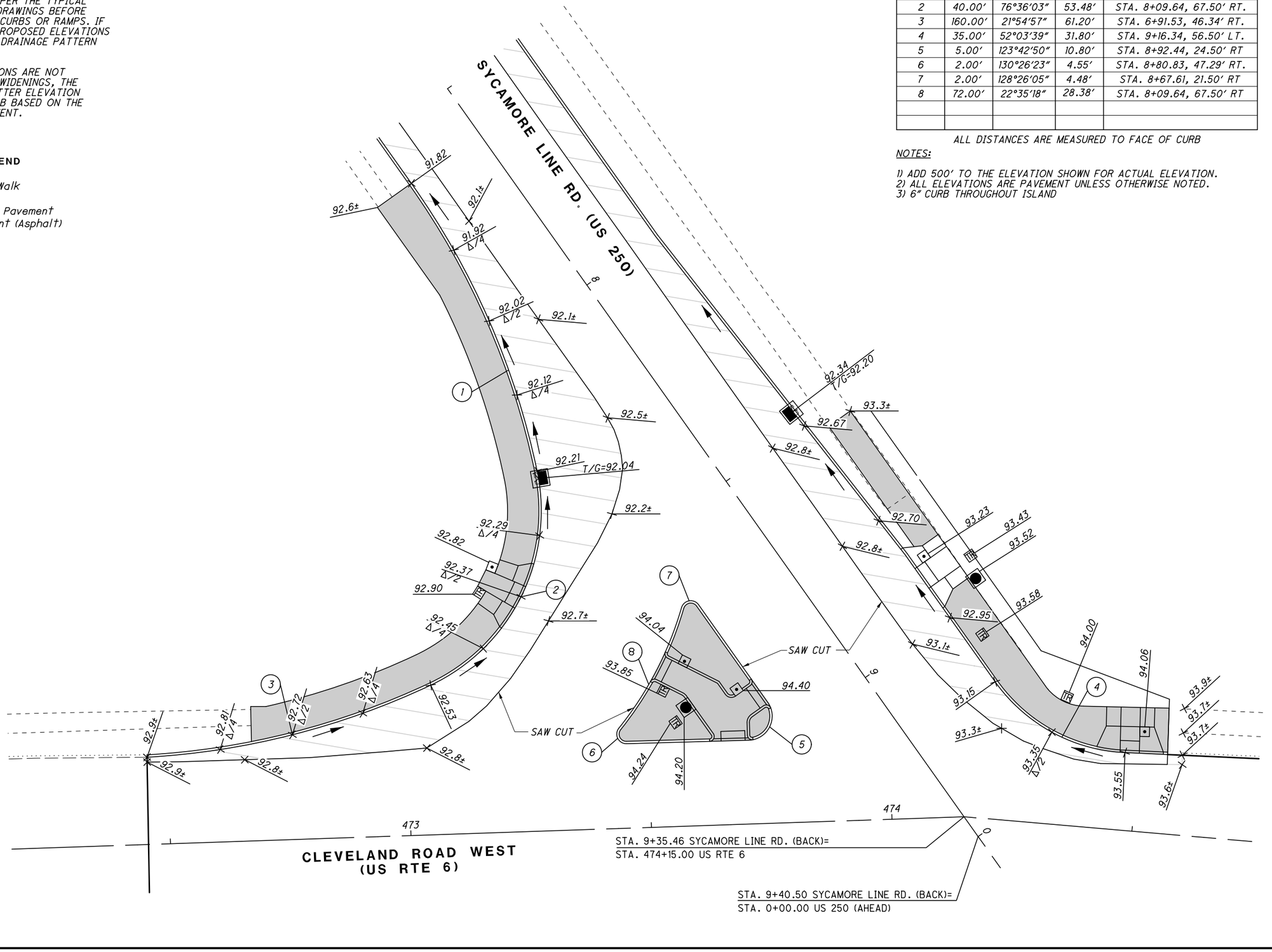
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	160.00′	23°33′23″	65.78′	STA. 7+61.69, 177.50′ RT.
2	40.00′	76°36′03″	53.48′	STA. 8+09.64, 67.50′ RT.
3	160.00′	21°54′57″	61.20′	STA. 6+91.53, 46.34′ RT.
4	35.00′	52°03′39″	31.80′	STA. 9+16.34, 56.50′ LT.
5	5.00′	123°42′50″	10.80′	STA. 8+92.44, 24.50′ RT
6	2.00′	130°26′23″	4.55′	STA. 8+80.83, 47.29′ RT.
7	2.00′	128°26′05″	4.48′	STA. 8+67.61, 21.50′ RT
8	72.00′	22°35′18″	28.38′	STA. 8+09.64, 67.50′ RT

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 500′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND US 6

ERI-250-0.00

295
677

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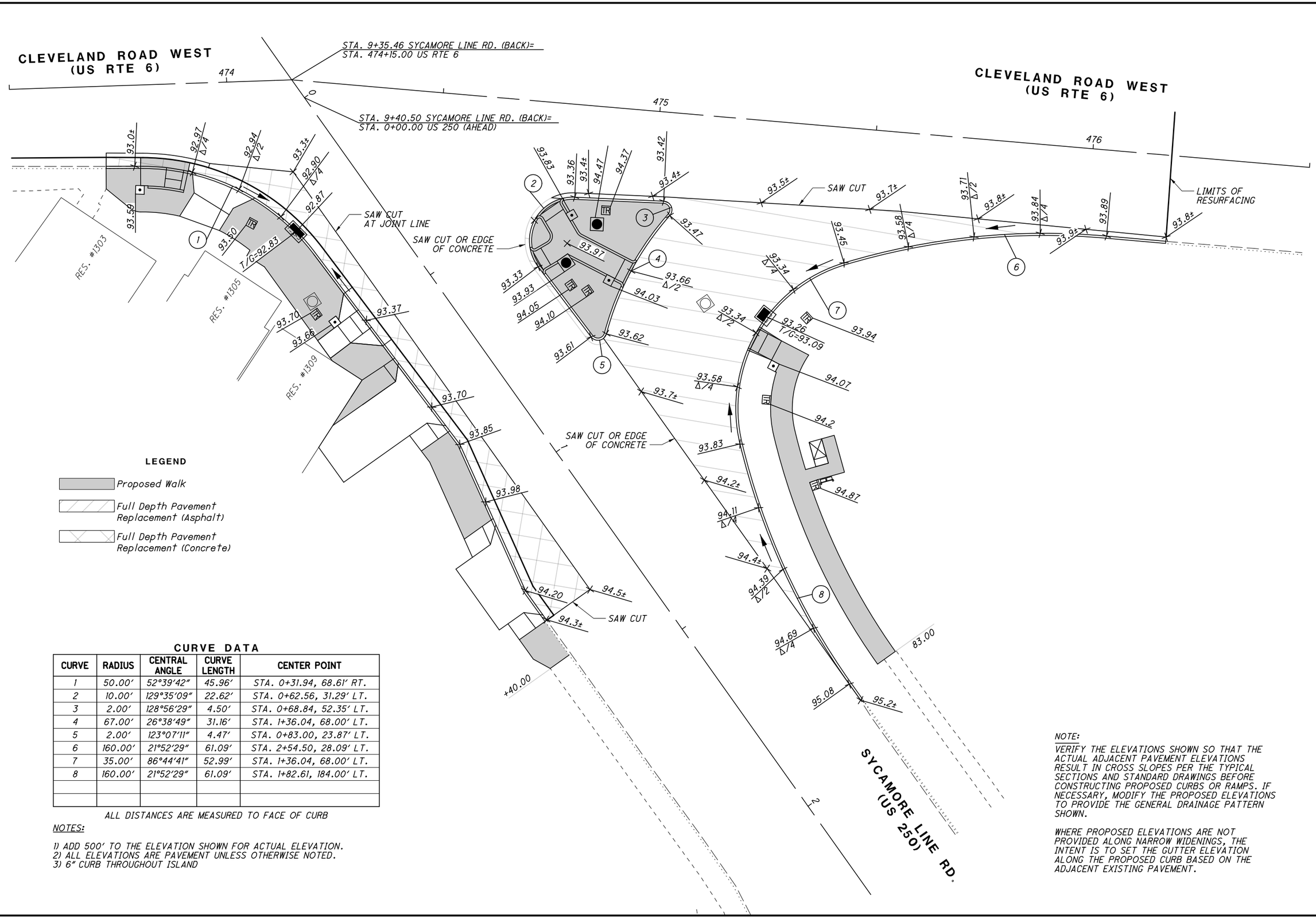

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	50.00′	52°39′42″	45.96′	STA. 0+31.94, 68.61′ RT.
2	10.00′	129°35′09″	22.62′	STA. 0+62.56, 31.29′ LT.
3	2.00′	128°56′29″	4.50′	STA. 0+68.84, 52.35′ LT.
4	67.00′	26°38′49″	31.16′	STA. 1+36.04, 68.00′ LT.
5	2.00′	123°07′11″	4.47′	STA. 0+83.00, 23.87′ LT.
6	160.00′	21°52′29″	61.09′	STA. 2+54.50, 28.09′ LT.
7	35.00′	86°44′41″	52.99′	STA. 1+36.04, 68.00′ LT.
8	160.00′	21°52′29″	61.09′	STA. 1+82.61, 184.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 500′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED
CHECKED

INTERSECTION DETAIL
US 250 AND US 6

ERI-250-0.00

296
677

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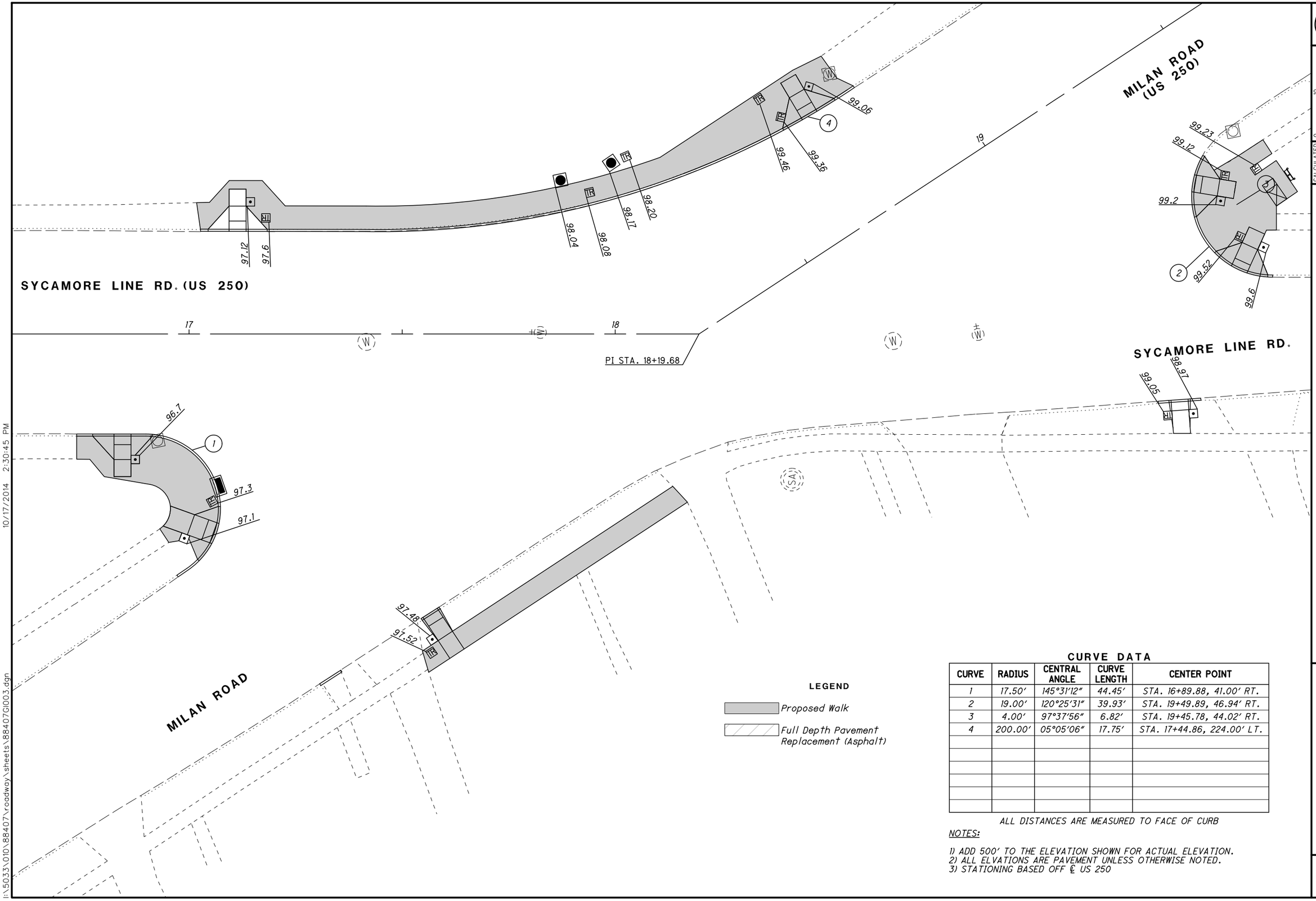

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	17.50′	145°31′12″	44.45′	STA. 16+89.88, 41.00′ RT.
2	19.00′	120°25′31″	39.93′	STA. 19+49.89, 46.94′ RT.
3	4.00′	97°37′56″	6.82′	STA. 19+45.78, 44.02′ RT.
4	200.00′	05°05′06″	17.75′	STA. 17+44.86, 224.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 500′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL US 250 AND MILAN ROAD

ERI-250-0.00

297
677

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NOTE:

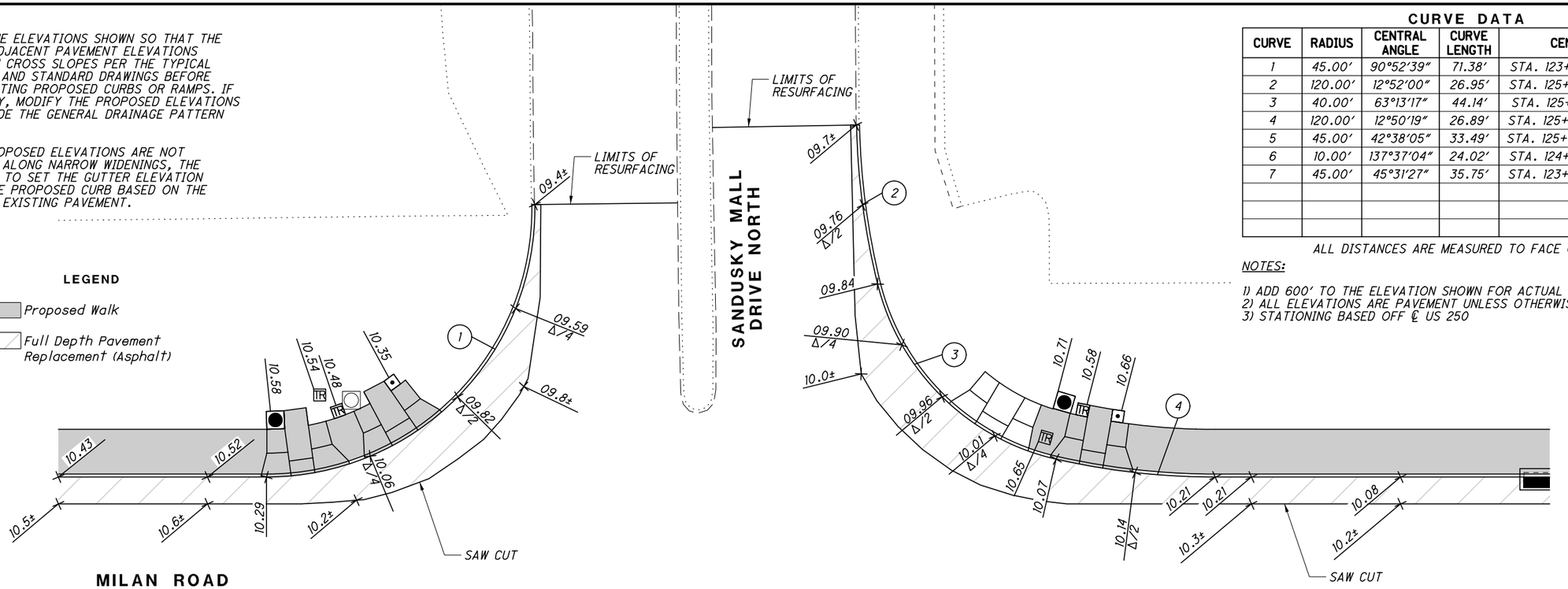
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	45.00′	90°52′39″	71.38′	STA. 123+59.88, 81.00′ LT.
2	120.00′	12°52′00″	26.95′	STA. 125+78.80, 97.27′ LT.
3	40.00′	63°13′17″	44.14′	STA. 125+01.15, 78.00′ LT.
4	120.00′	12°50′19″	26.89′	STA. 125+18.93, 156.00′ LT.
5	45.00′	42°38′05″	33.49′	STA. 125+02.00, 80.00′ RT.
6	10.00′	137°37′04″	24.02′	STA. 124+78.29, 54.25′ RT.
7	45.00′	45°31′27″	35.75′	STA. 123+63.85, 80.02′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND SANDUSKY MALL DRIVE NORTH
ERI-250-0.00

298
677

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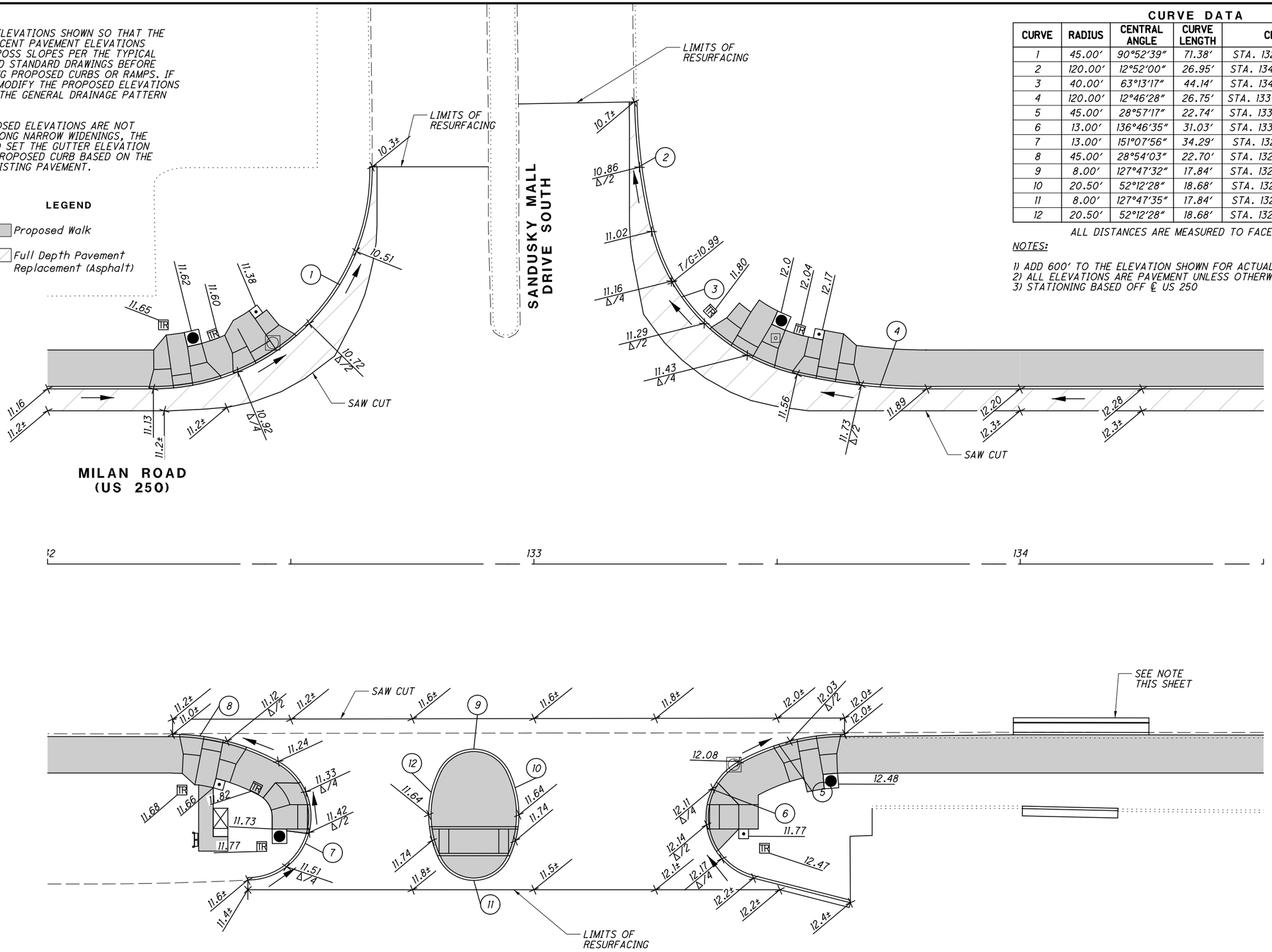
NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	45.00′	90°52′39″	71.38′	STA. 132+21.75, 81.00′ LT.
2	120.00′	12°52′00″	26.95′	STA. 134+40.66, 97.27′ LT.
3	40.00′	63°13′17″	44.14′	STA. 134+40.66, 97.27′ LT.
4	120.00′	12°46′28″	26.75′	STA. 133+80.80, 156.00′ LT.
5	45.00′	28°57′17″	22.74′	STA. 133+63.87, 80.00′ RT.
6	13.00′	136°46′35″	31.03′	STA. 133+48.37, 52.00′ RT.
7	13.00′	151°07′56″	34.29′	STA. 132+41.17, 52.00′ RT.
8	45.00′	28°54′03″	22.70′	STA. 132+25.72, 80.02′ RT.
9	8.00′	127°47′32″	17.84′	STA. 132+87.63, 46.08′ RT.
10	20.50′	52°12′28″	18.68′	STA. 132+76.40, 51.58′ RT.
11	8.00′	127°47′35″	17.84′	STA. 132+98.85, 51.58′ RT.
12	20.50′	52°12′28″	18.68′	STA. 132+87.63, 46.08′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND SANDUSKY MALL DRIVE SOUTH

ERI-250-0.00

299
677

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CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	40.00′	16°15′11″	11.35′	STA. 138+79.62, 76.38′ LT.
2	48.00′	39°51′26″	33.39′	STA. 138+77.19, 84.00′ LT.
3	148.00′	10°38′31″	27.49′	STA. 137+92.81, 137.67′ LT.
4	158.00′	27°13′34″	75.08′	STA. 141+61.66, 72.75′ LT.
5	38.00′	73°44′44″	48.91′	STA. 140+42.63, 88.00′ LT.
6	158.00′	23°33′23″	64.96′	STA. 140+90.59, 198.00′ LT.
7	65.00′	30°48′01″	34.94′	STA. 140+42.63, 88.00′ LT.
8	2.00′	145°10′28″	5.07′	STA. 140+04.37, 33.00′ LT.
9	5.00′	108°47′32″	9.49′	STA. 139+75.84, 36.00′ LT.
10	505.00′	02°50′19″	25.02′	STA. 144+49.18, 125.07′ RT.
11	2.00′	133°59′41″	4.68′	STA. 139+81.60, 60.35′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

NOTE:

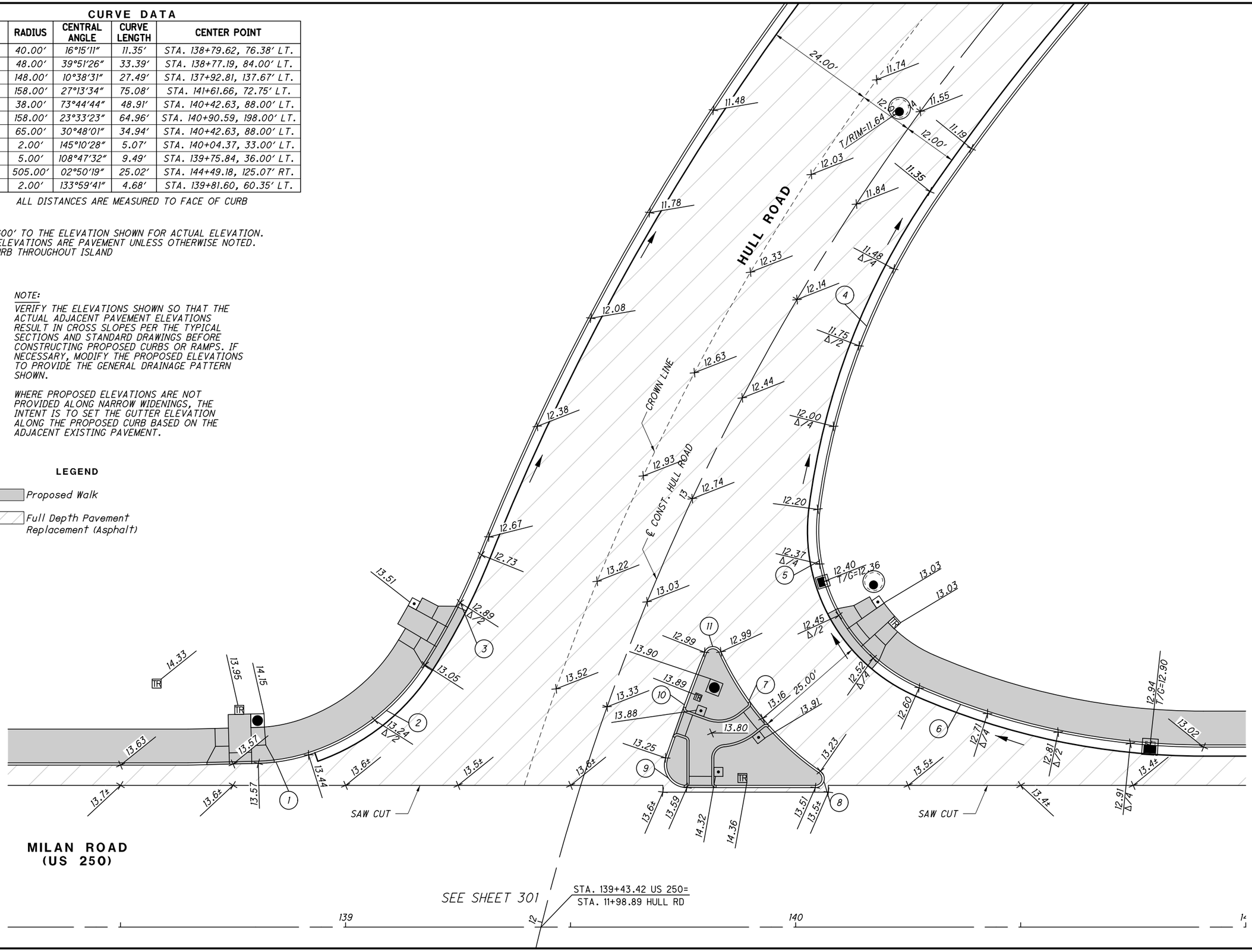
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED

CHECKED

INTERSECTION DETAIL
US 250 AND HULL ROAD

ERI-250-0.00

300
677

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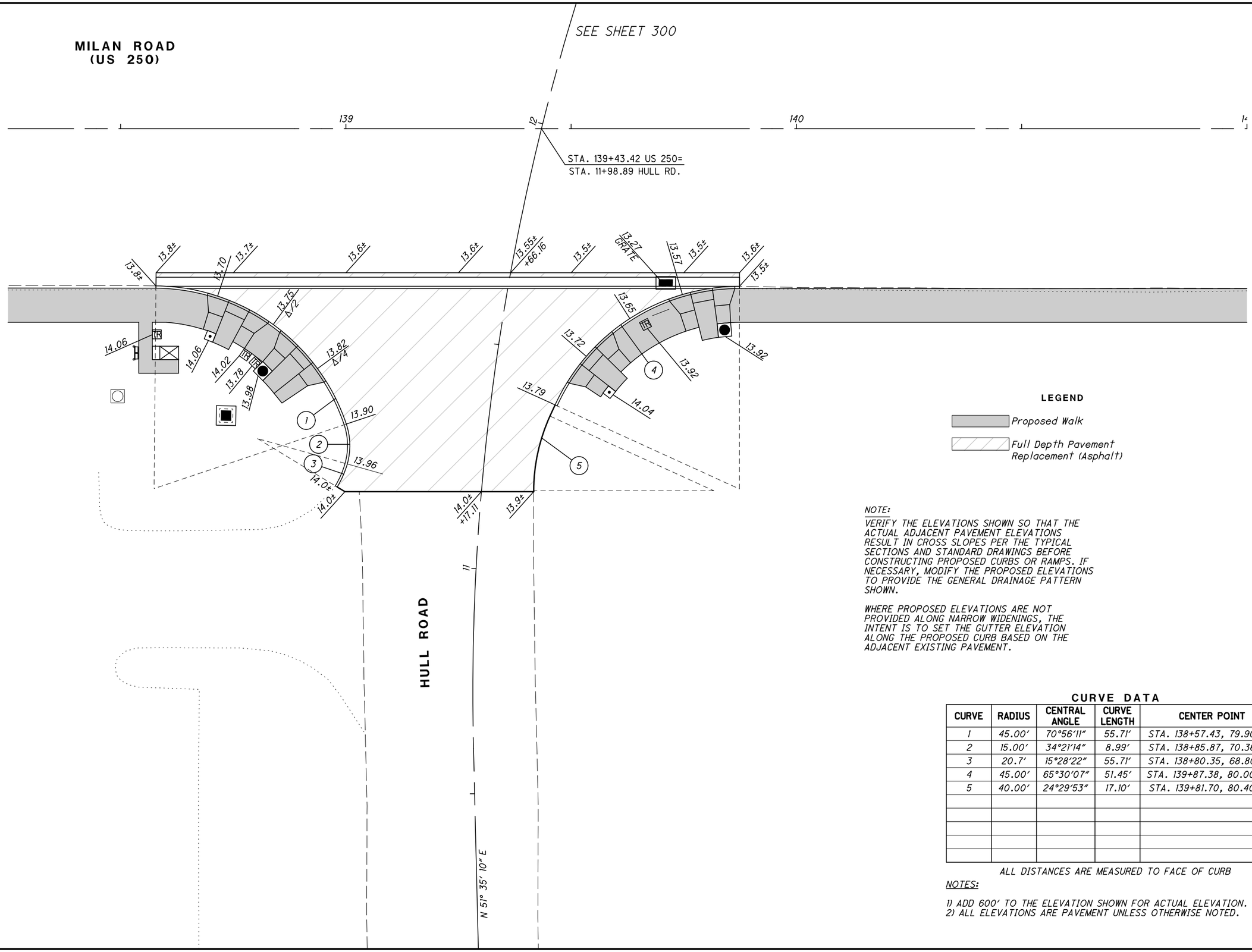

NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	45.00′	70°56′11″	55.71′	STA. 138+57.43, 79.90′ RT
2	15.00′	34°21′14″	8.99′	STA. 138+85.87, 70.36′ RT
3	20.7′	15°28′22″	55.71′	STA. 138+80.35, 68.80′ RT
4	45.00′	65°30′07″	51.45′	STA. 139+87.38, 80.00′ RT.
5	40.00′	24°29′53″	17.10′	STA. 139+81.70, 80.40′ RT

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED
CHECKED

INTERSECTION DETAIL
US 250 AND HULL ROAD

ERI-250-0.00

301
677

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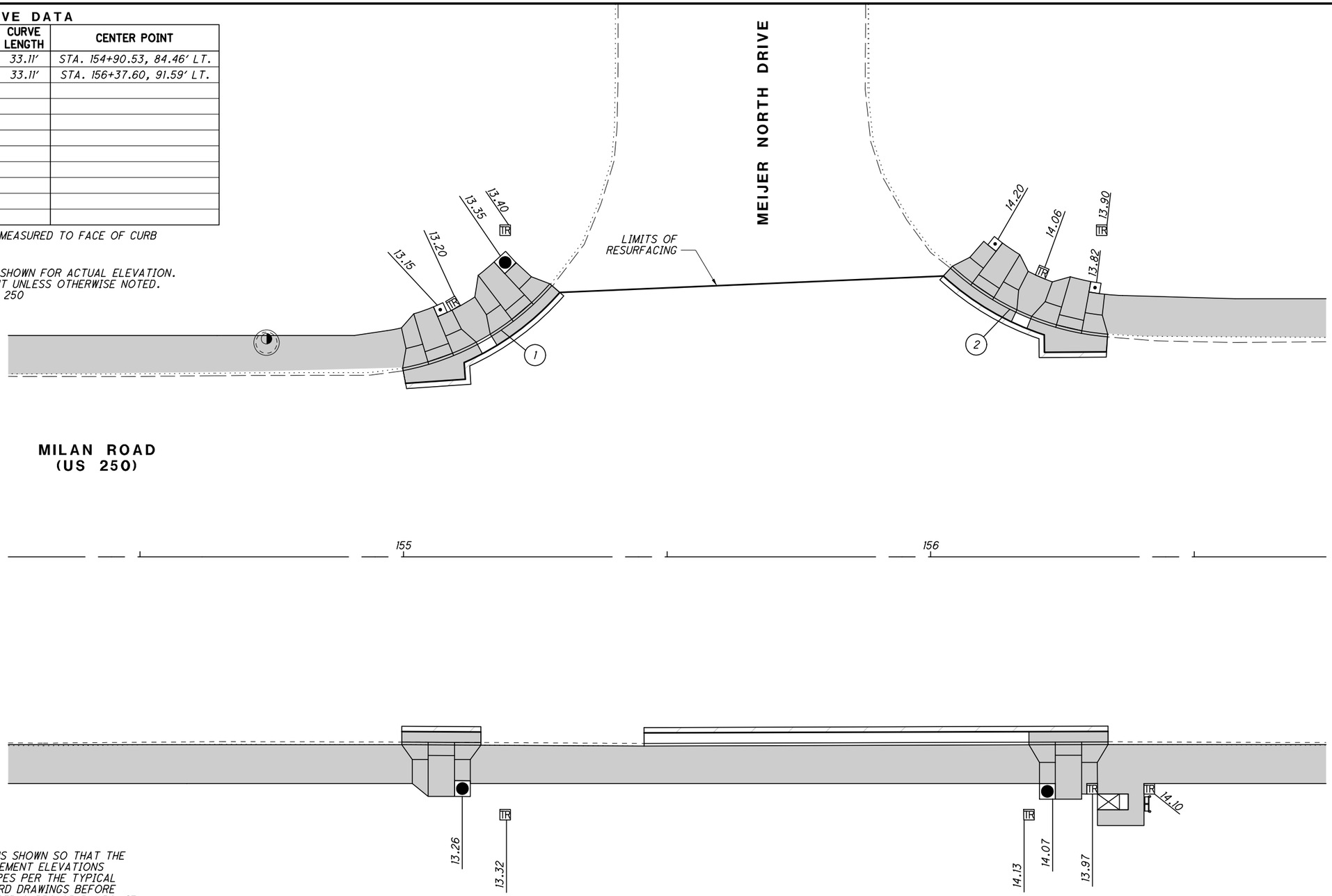
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	50.00′	37°56′16″	33.11′	STA. 154+90.53, 84.46′ LT.
2	50.00′	37°56′08″	33.11′	STA. 156+37.60, 91.59′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250



NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND MEIJER NORTH DRIVE

ERI-250-0.00

302
677

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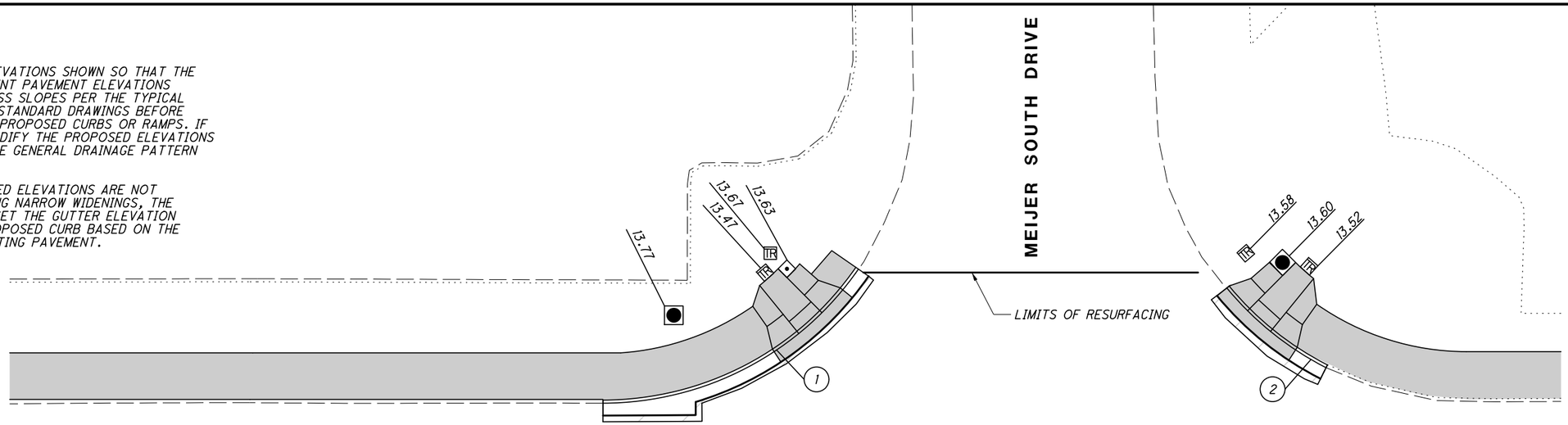
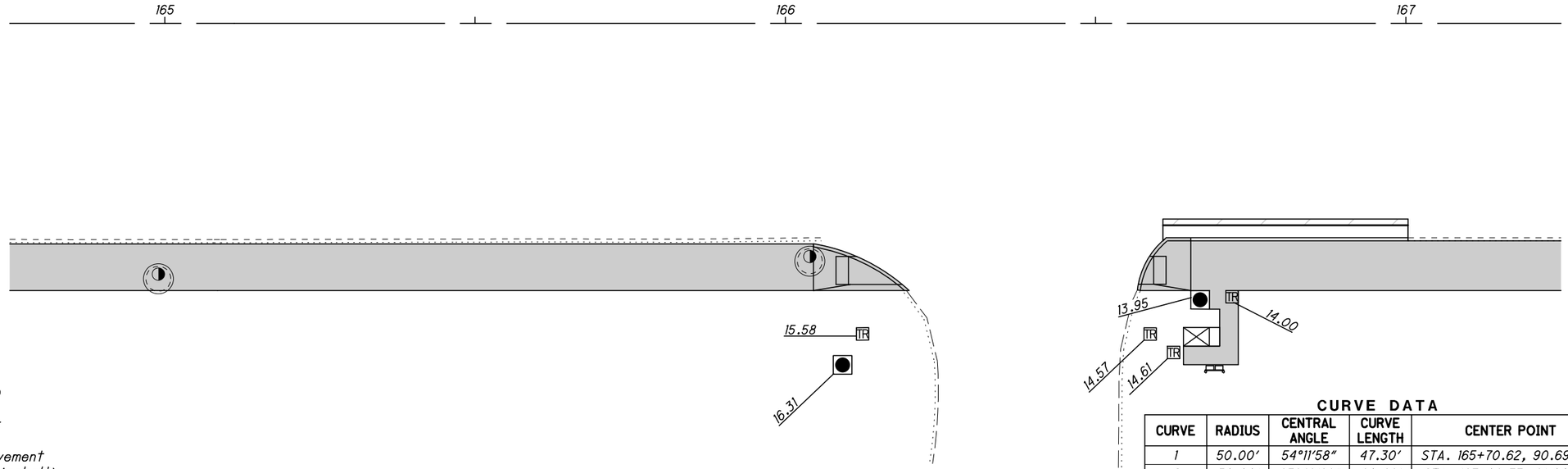
NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.



MILAN ROAD
(US 250)



LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	50.00′	54°11′58″	47.30′	STA. 165+70.62, 90.69′ LT.
2	50.00′	23°42′28″	20.69′	STA. 167+09.77, 91.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND MEIJER SOUTH DRIVE

ERI-250-0.00

303
677

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NOTE:

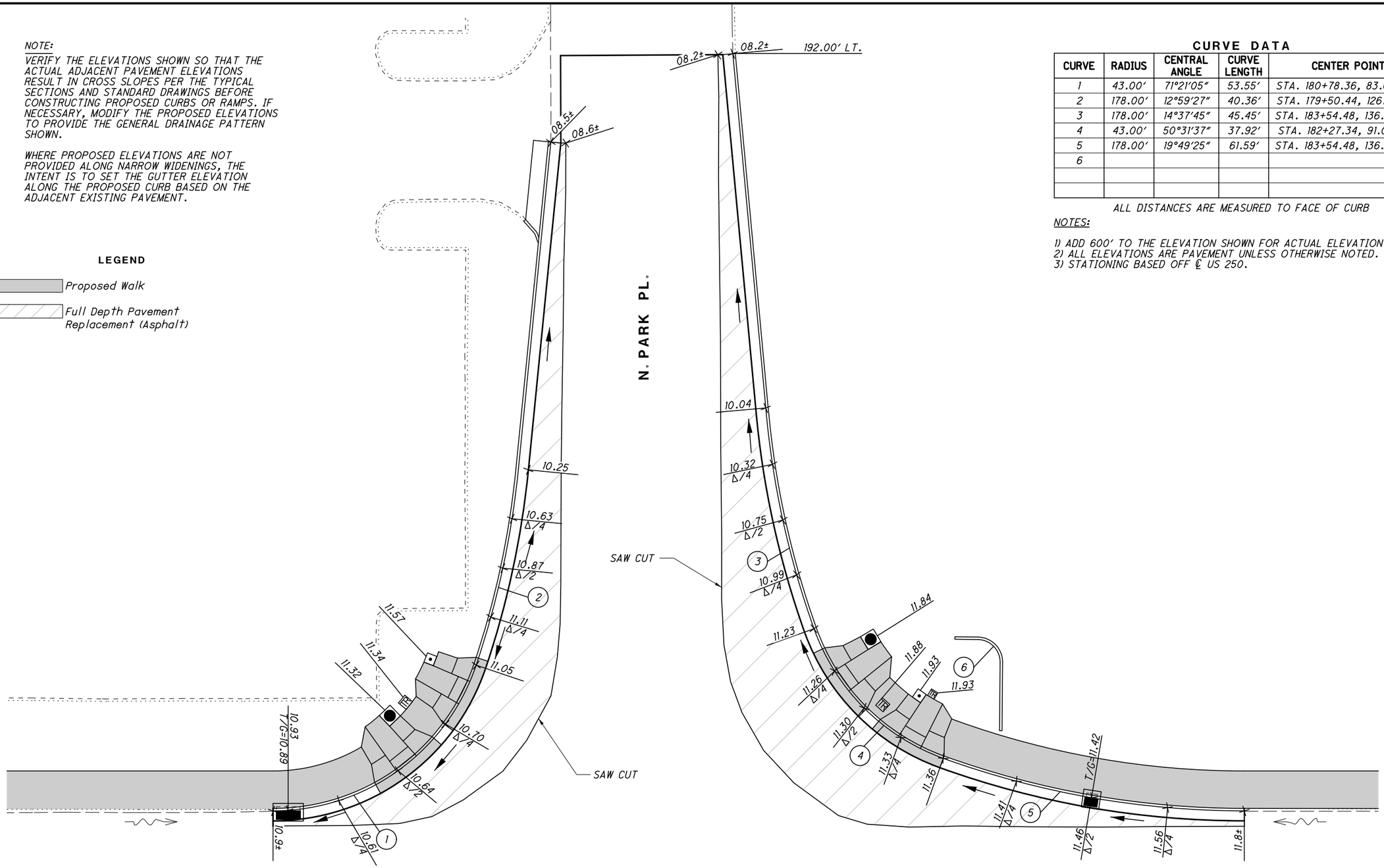
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	43.00'	71°21'05"	53.55'	STA. 180+78.36, 83.00' LT.
2	178.00'	12°59'27"	40.36'	STA. 179+50.44, 126.17' LT.
3	178.00'	14°37'45"	45.45'	STA. 183+54.48, 136.40' LT.
4	43.00'	50°31'37"	37.92'	STA. 182+27.34, 91.00' LT.
5	178.00'	19°49'25"	61.59'	STA. 183+54.48, 136.40' LT.
6				

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL US 250 AND N. PARK PL.

ERI-250-0.00

304
677

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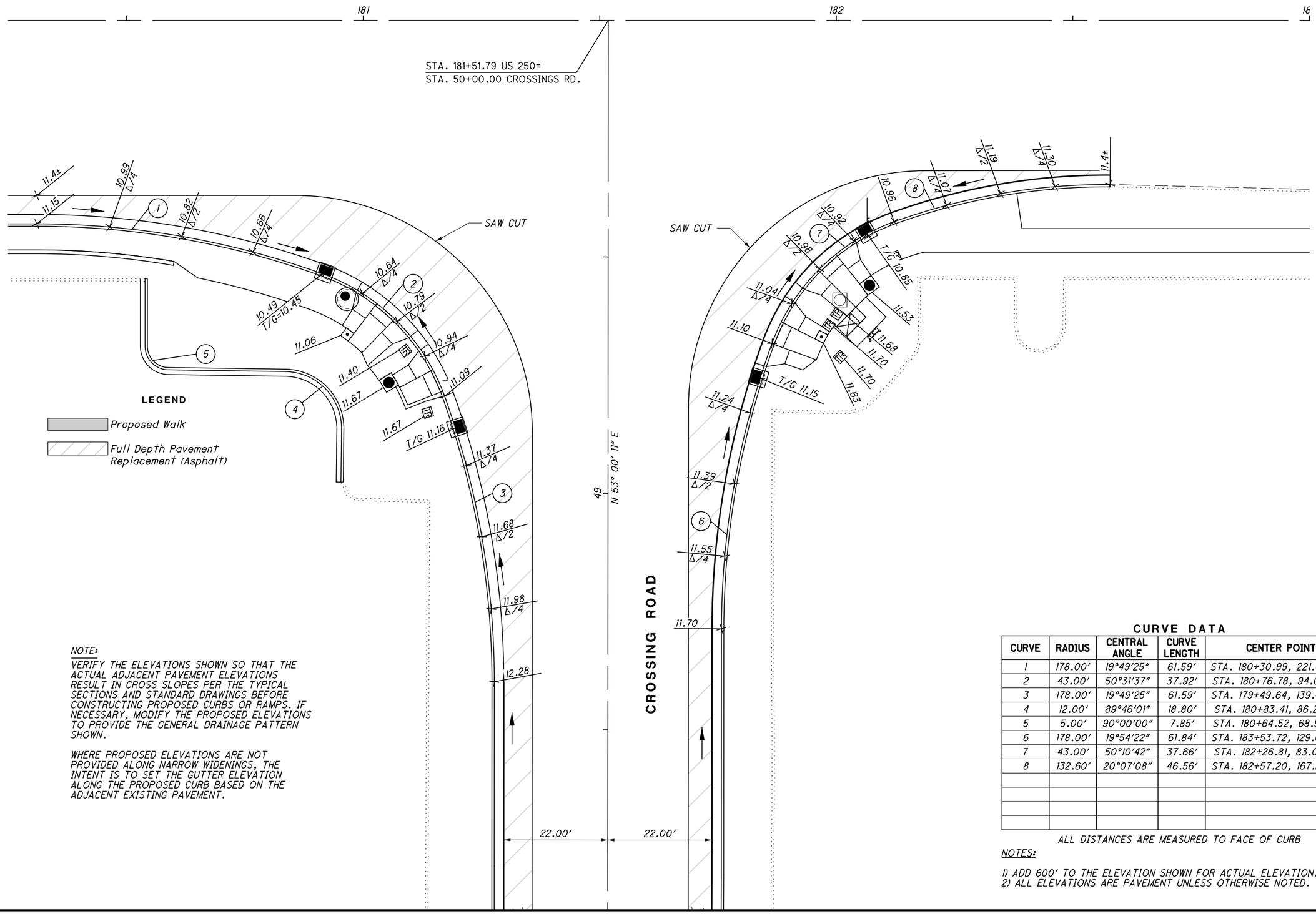
MILAN ROAD
(US 250)

SEE SHEET 304



LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	178.00′	19°49′25″	61.59′	STA. 180+30.99, 221.00′ RT.
2	43.00′	50°31′37″	37.92′	STA. 180+76.78, 94.00′ RT.
3	178.00′	19°49′25″	61.59′	STA. 179+49.64, 139.40′ RT.
4	12.00′	89°46′01″	18.80′	STA. 180+83.41, 86.24′ RT.
5	5.00′	90°00′00″	7.85′	STA. 180+64.52, 68.97′ RT.
6	178.00′	19°54′22″	61.84′	STA. 183+53.72, 129.04′ RT.
7	43.00′	50°10′42″	37.66′	STA. 182+26.81, 83.00′ RT.
8	132.60′	20°07′08″	46.56′	STA. 182+57.20, 167.29′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND CROSSINGS ROAD

ERI-250-0.00

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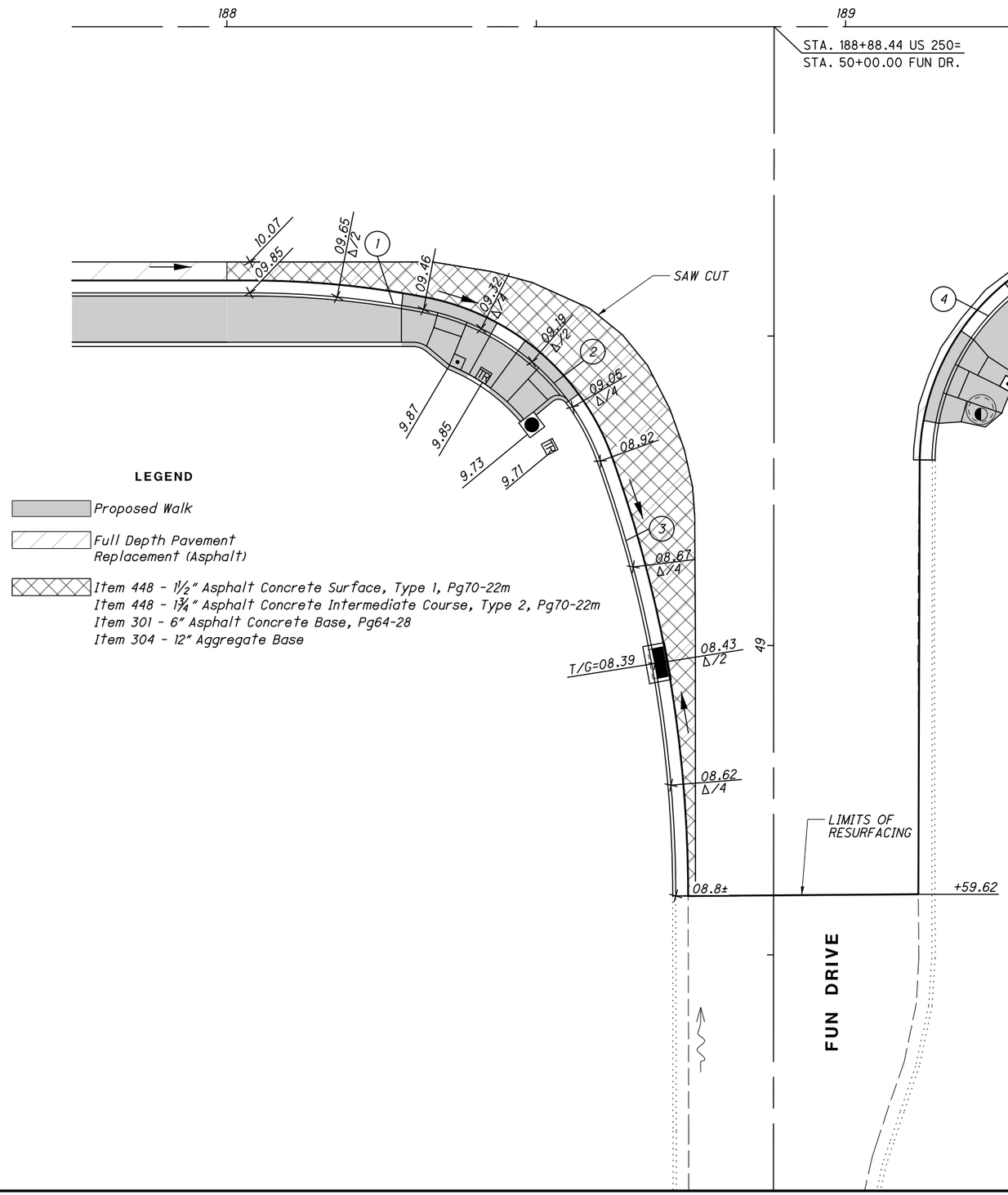
MILAN ROAD
(US 250)

SEE SHEET 335



LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Item 448 - 1½" Asphalt Concrete Surface, Type 1, Pg70-22m
  Item 448 - 1¾" Asphalt Concrete Intermediate Course, Type 2, Pg70-22m
  Item 301 - 6" Asphalt Concrete Base, Pg64-28
  Item 304 - 12" Aggregate Base

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	148.00′	10°56′33″	28.27′	STA. 188+03.70, 191.00′ RT.
2	38.00′	59°20′32″	39.36′	STA. 188+24.58, 83.00′ RT.
3	208.00′	19°45′00″	71.70′	STA. 186+64.54, 140.35′ RT
4	35.50′	89°16′14″	55.31′	STA. 189+49.46, 70.50′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND FUN DRIVE

ERI-250-0.00

306
677

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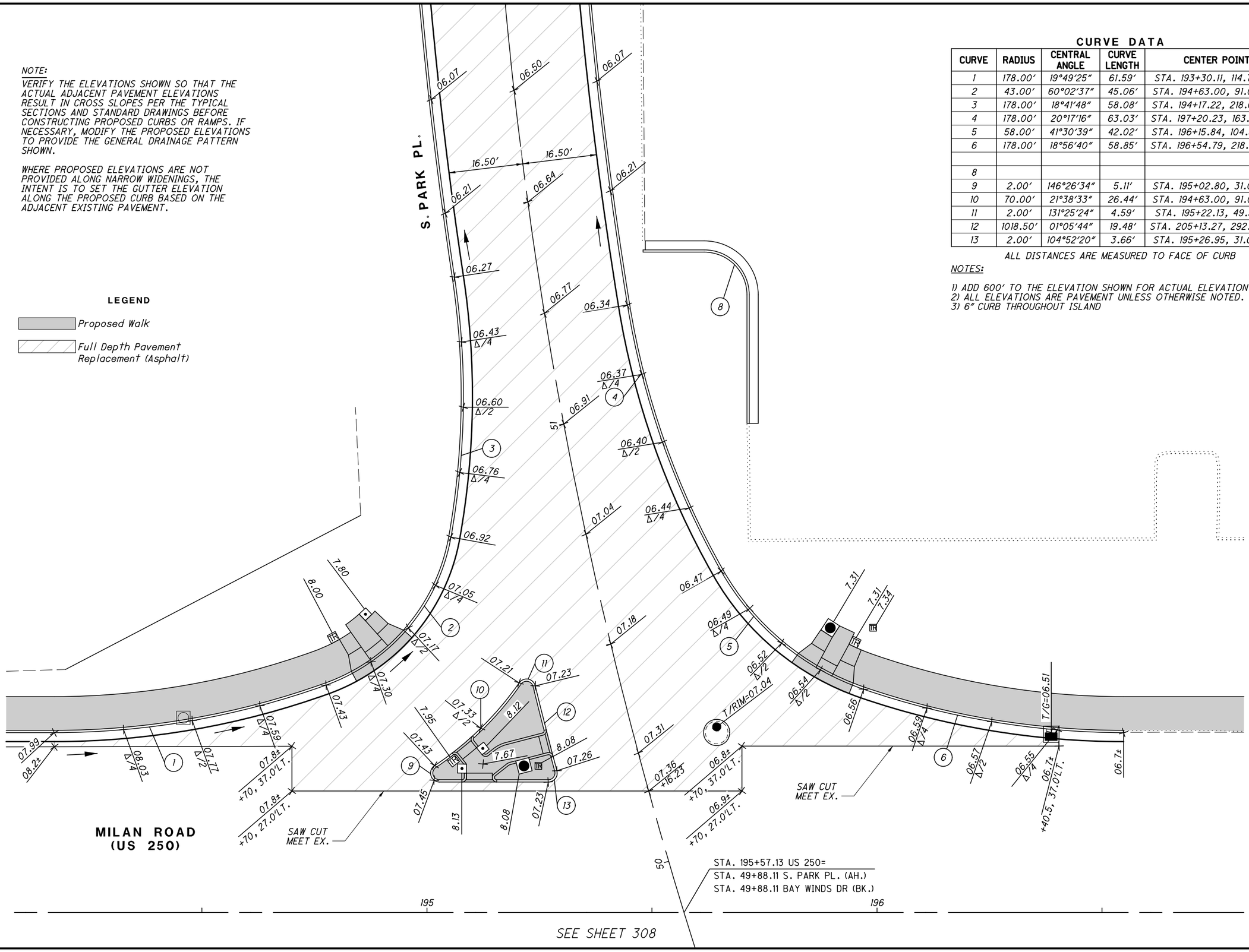
NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	178.00′	19°49′25″	61.59′	STA. 193+30.11, 114.75′ LT.
2	43.00′	60°02′37″	45.06′	STA. 194+63.00, 91.00′ LT.
3	178.00′	18°41′48″	58.08′	STA. 194+17.22, 218.00′ LT.
4	178.00′	20°17′16″	63.03′	STA. 197+20.23, 163.67′ LT.
5	58.00′	41°30′39″	42.02′	STA. 196+15.84, 104.50′ LT.
6	178.00′	18°56′40″	58.85′	STA. 196+54.79, 218.00′ LT.
8				
9	2.00′	146°26′34″	5.11′	STA. 195+02.80, 31.00′ LT.
10	70.00′	21°38′33″	26.44′	STA. 194+63.00, 91.00′ LT.
11	2.00′	131°25′24″	4.59′	STA. 195+22.13, 49.91′ LT.
12	1018.50′	01°05′44″	19.48′	STA. 205+13.27, 292.92′ LT.
13	2.00′	104°52′20″	3.66′	STA. 195+26.95, 31.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND S. PARK PL.

ERI-250-0.00

307
677

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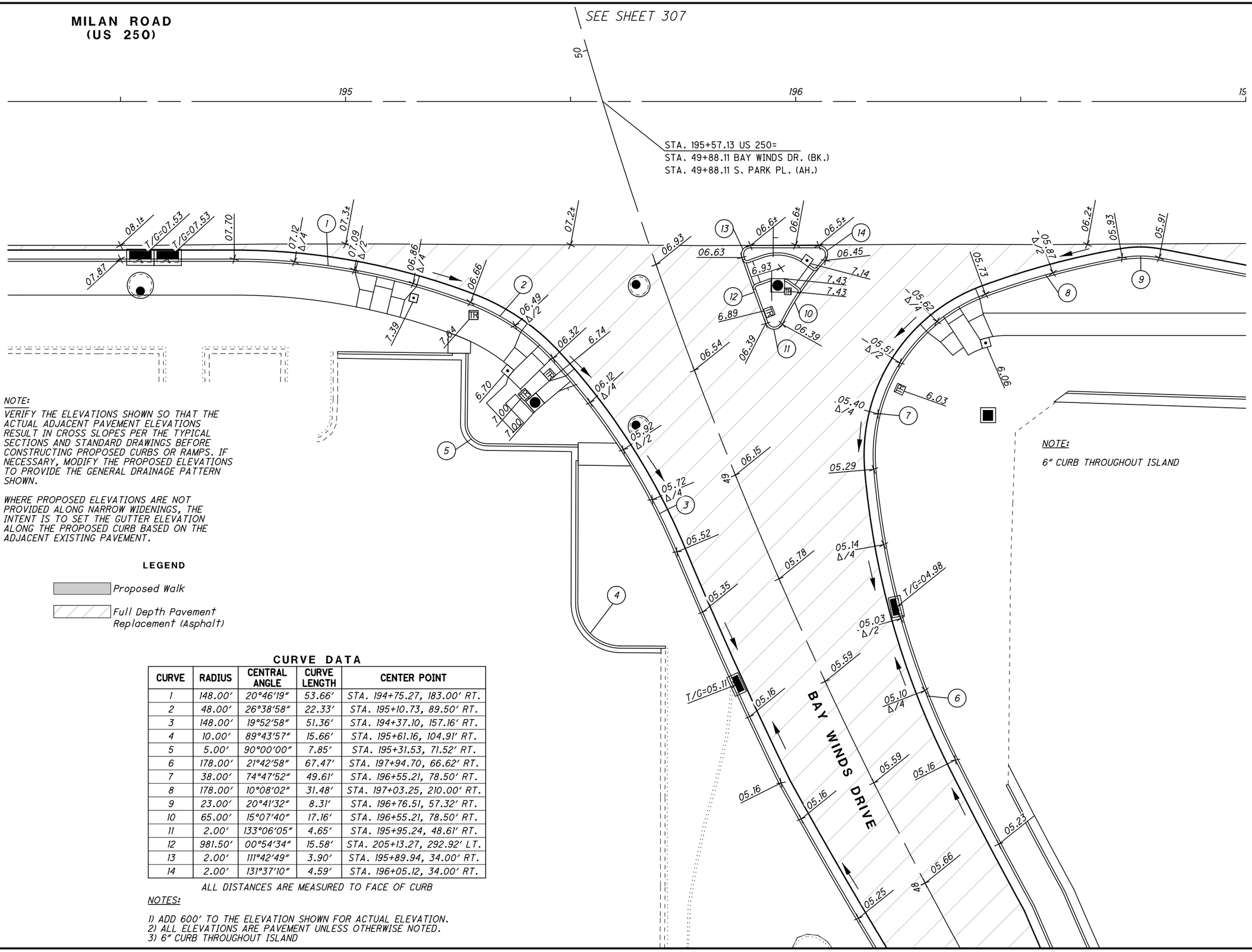

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	148.00′	20°46′19″	53.66′	STA. 194+75.27, 183.00′ RT.
2	48.00′	26°38′58″	22.33′	STA. 195+10.73, 89.50′ RT.
3	148.00′	19°52′58″	51.36′	STA. 194+37.10, 157.16′ RT.
4	10.00′	89°43′57″	15.66′	STA. 195+61.16, 104.91′ RT.
5	5.00′	90°00′00″	7.85′	STA. 195+31.53, 71.52′ RT.
6	178.00′	21°42′58″	67.47′	STA. 197+94.70, 66.62′ RT.
7	38.00′	74°47′52″	49.61′	STA. 196+55.21, 78.50′ RT.
8	178.00′	10°08′02″	31.48′	STA. 197+03.25, 210.00′ RT.
9	23.00′	20°41′32″	8.31′	STA. 196+76.51, 57.32′ RT.
10	65.00′	15°07′40″	17.16′	STA. 196+55.21, 78.50′ RT.
11	2.00′	133°06′05″	4.65′	STA. 195+95.24, 48.61′ RT.
12	981.50′	00°54′34″	15.58′	STA. 205+13.27, 292.92′ LT.
13	2.00′	111°42′49″	3.90′	STA. 195+89.94, 34.00′ RT.
14	2.00′	131°37′10″	4.59′	STA. 196+05.12, 34.00′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6" CURB THROUGHOUT ISLAND

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED
CHECKED

INTERSECTION DETAIL
US 250 AND BAY WINDS DRIVE

ERI-250-0.00

308
677

10/17/2014 2:30:57 PM
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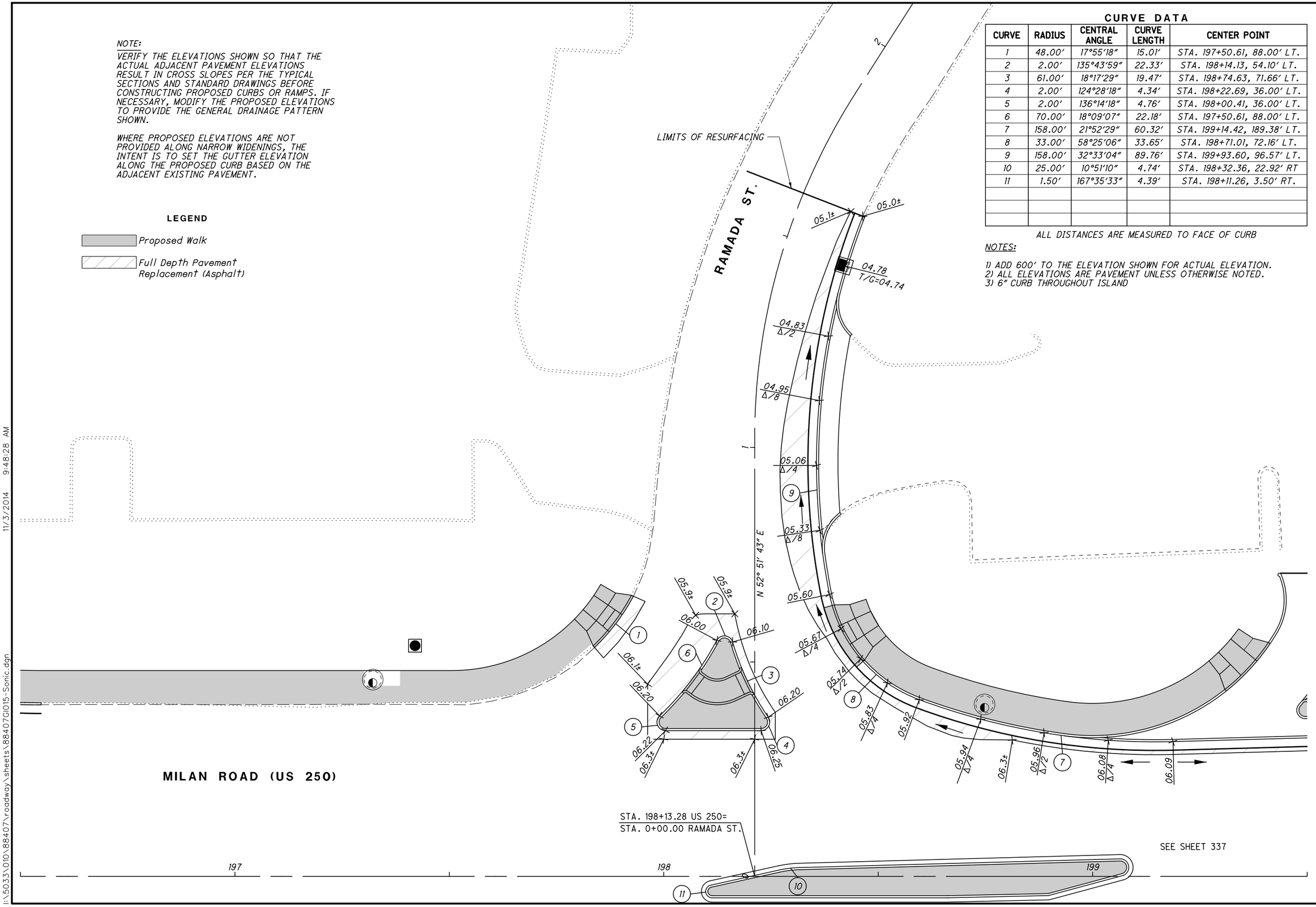
NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	48.00′	17°55′18″	15.01′	STA. 197+50.61, 88.00′ LT.
2	2.00′	135°43′59″	22.33′	STA. 198+14.13, 54.10′ LT.
3	61.00′	18°17′29″	19.47′	STA. 198+74.63, 71.66′ LT.
4	2.00′	124°28′18″	4.34′	STA. 198+22.69, 36.00′ LT.
5	2.00′	136°14′18″	4.76′	STA. 198+00.41, 36.00′ LT.
6	70.00′	18°09′07″	22.18′	STA. 197+50.61, 88.00′ LT.
7	158.00′	21°52′29″	60.32′	STA. 199+14.42, 189.38′ LT.
8	33.00′	58°25′06″	33.65′	STA. 198+71.01, 72.16′ LT.
9	158.00′	32°33′04″	89.76′	STA. 199+93.60, 96.57′ LT.
10	25.00′	10°51′10″	4.74′	STA. 198+32.36, 22.92′ RT
11	1.50′	167°35′33″	4.39′	STA. 198+11.26, 3.50′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND RAMADA STREET

ERI-250-0.00

309
677

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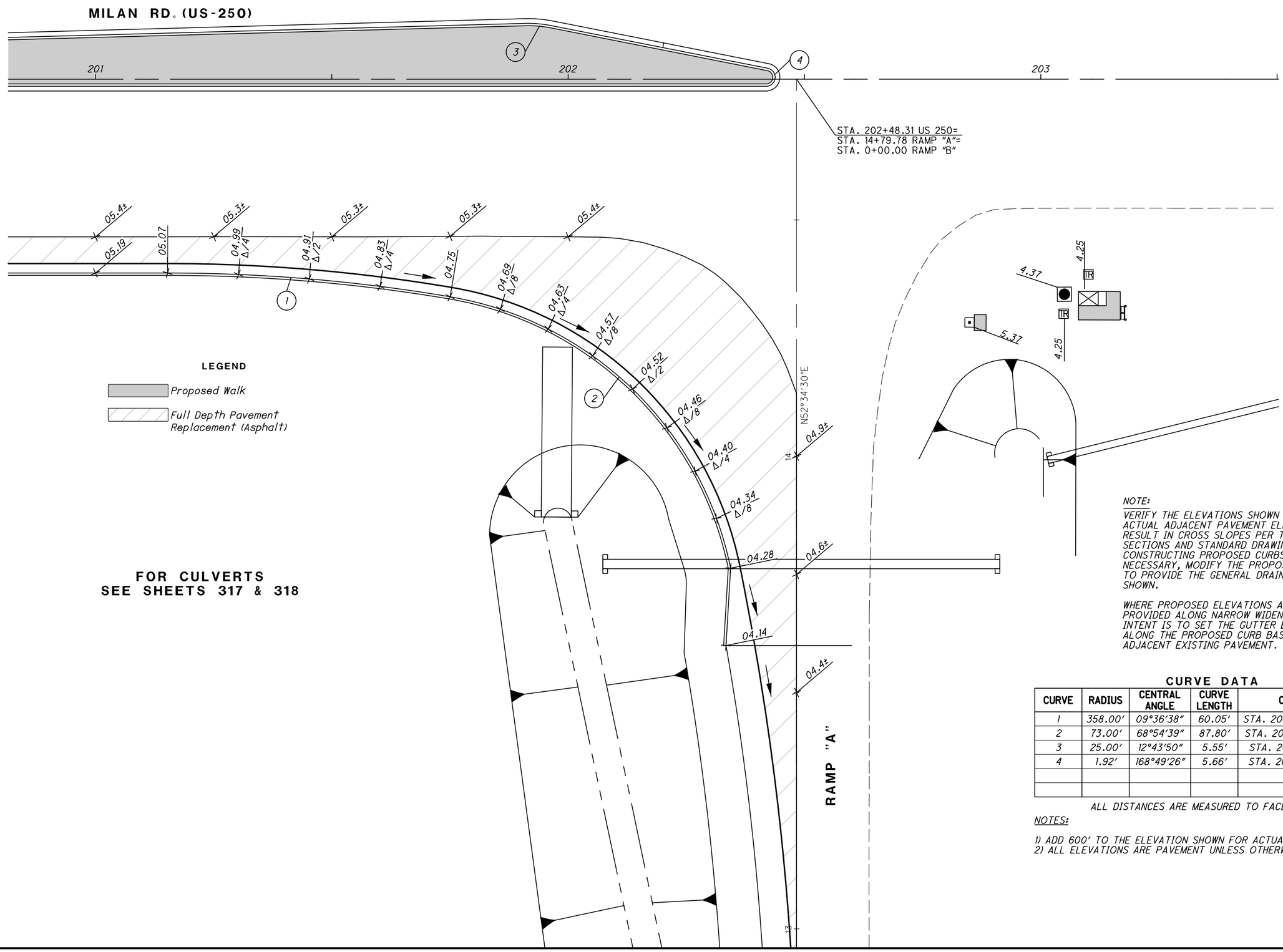
SEE SHEET 311



FOR CULVERTS
SEE SHEETS 317 & 318

NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	358.00′	09°36′38″	60.05′	STA. 201+15.26, 399.00′ RT.
2	73.00′	68°54′39″	87.80′	STA. 201+62.84, 118.00′ RT.
3	25.00′	12°43′50″	5.55′	STA. 201+91.60, 13.17′ RT.
4	1.92′	168°49′26″	5.66′	STA. 202+41.88, 0.42′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED
CHECKED

INTERSECTION DETAIL
US 250 AND RAMP "A"

ERI-250-0.00

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CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	438.00′	16°28′59″	126.00′	STA. 200+85.79, 474.14′ LT.
2	73.00′	33°32′12″	42.73′	STA. 201+98.82, 127.08′ LT.
3	438.00′	14°48′59″	113.26′	STA. 199+12.87, 353.92′ LT.
4	2.00′	85°39′19″	2.99′	STA. 203+25.26, 48.00′ LT.
5	68.00′	14°26′43″	17.14′	STA. 203+91.07, 53.00′ LT.
6	518.00′	11°11′47″	101.22′	STA. 208+34.10, 25.92′ RT.
7	1.50′	180°00′00″	4.71′	STA. 203+59.19, ℄

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

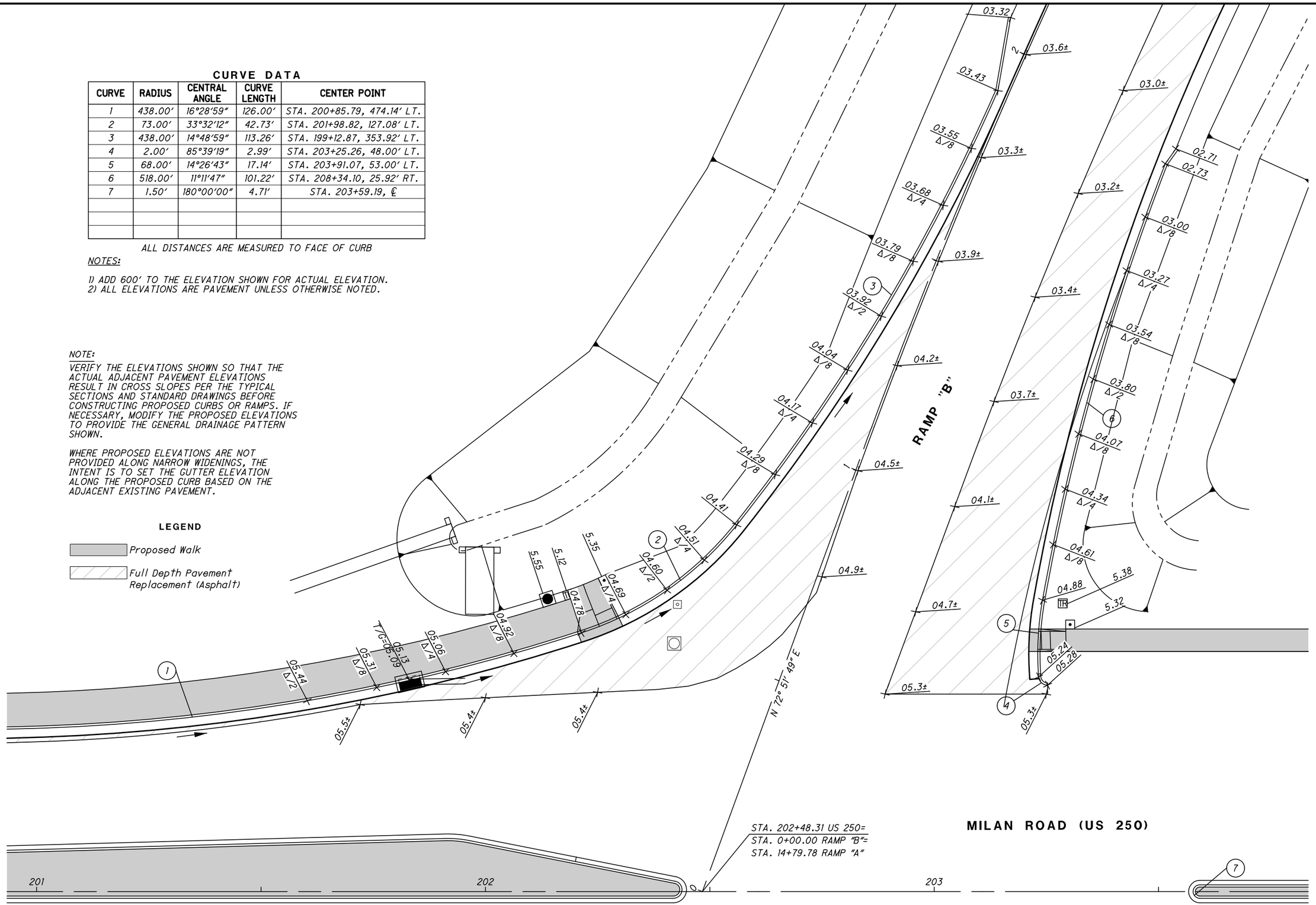
NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)



SEE SHEET 310

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL US 250 AND RAMP "B"

ERI-250-0.00

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NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

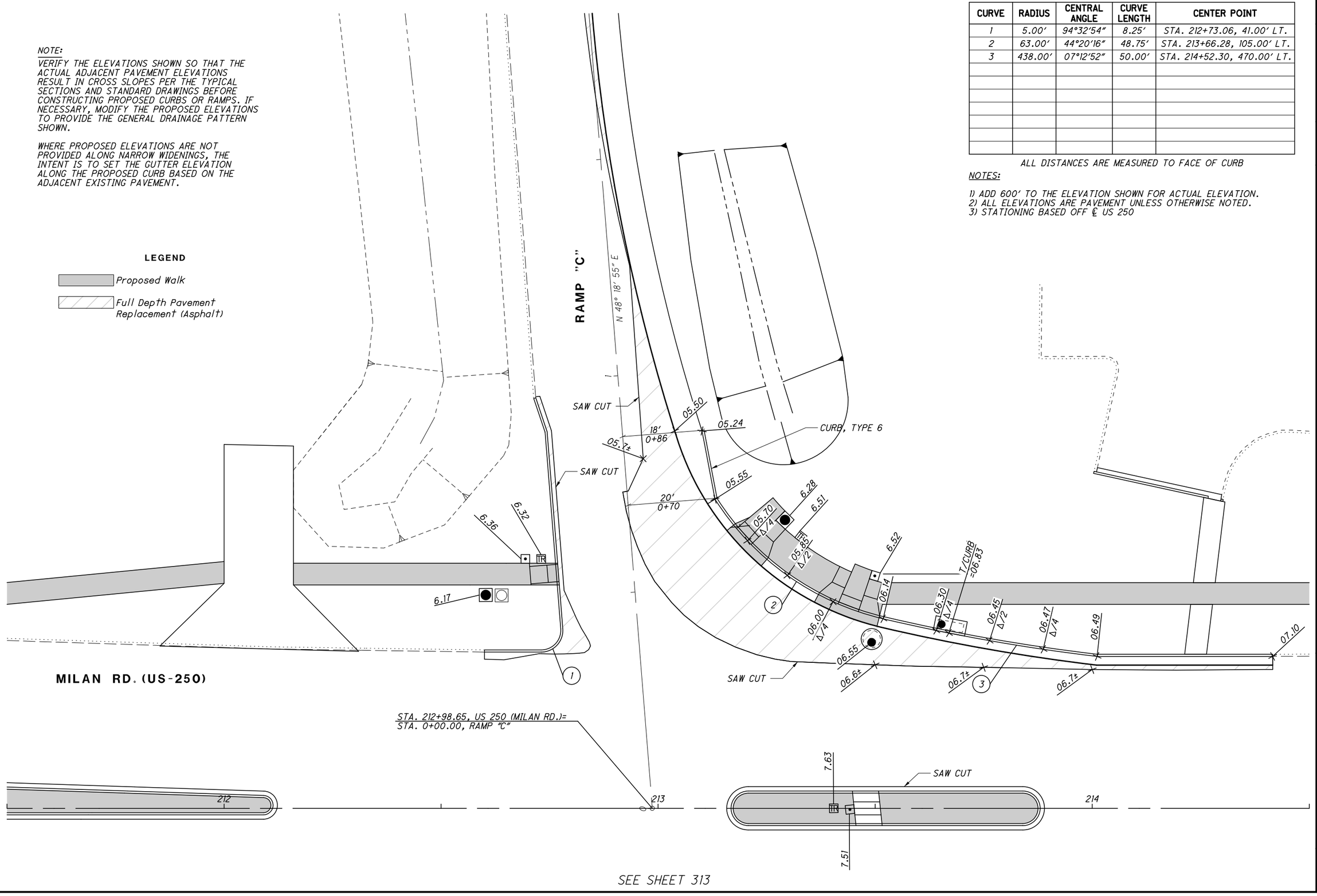
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	5.00′	94°32′54″	8.25′	STA. 212+73.06, 41.00′ LT.
2	63.00′	44°20′16″	48.75′	STA. 213+66.28, 105.00′ LT.
3	438.00′	07°12′52″	50.00′	STA. 214+52.30, 470.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250



SEE SHEET 313

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND RAMP "C"

ERI-250-0.00

312
677

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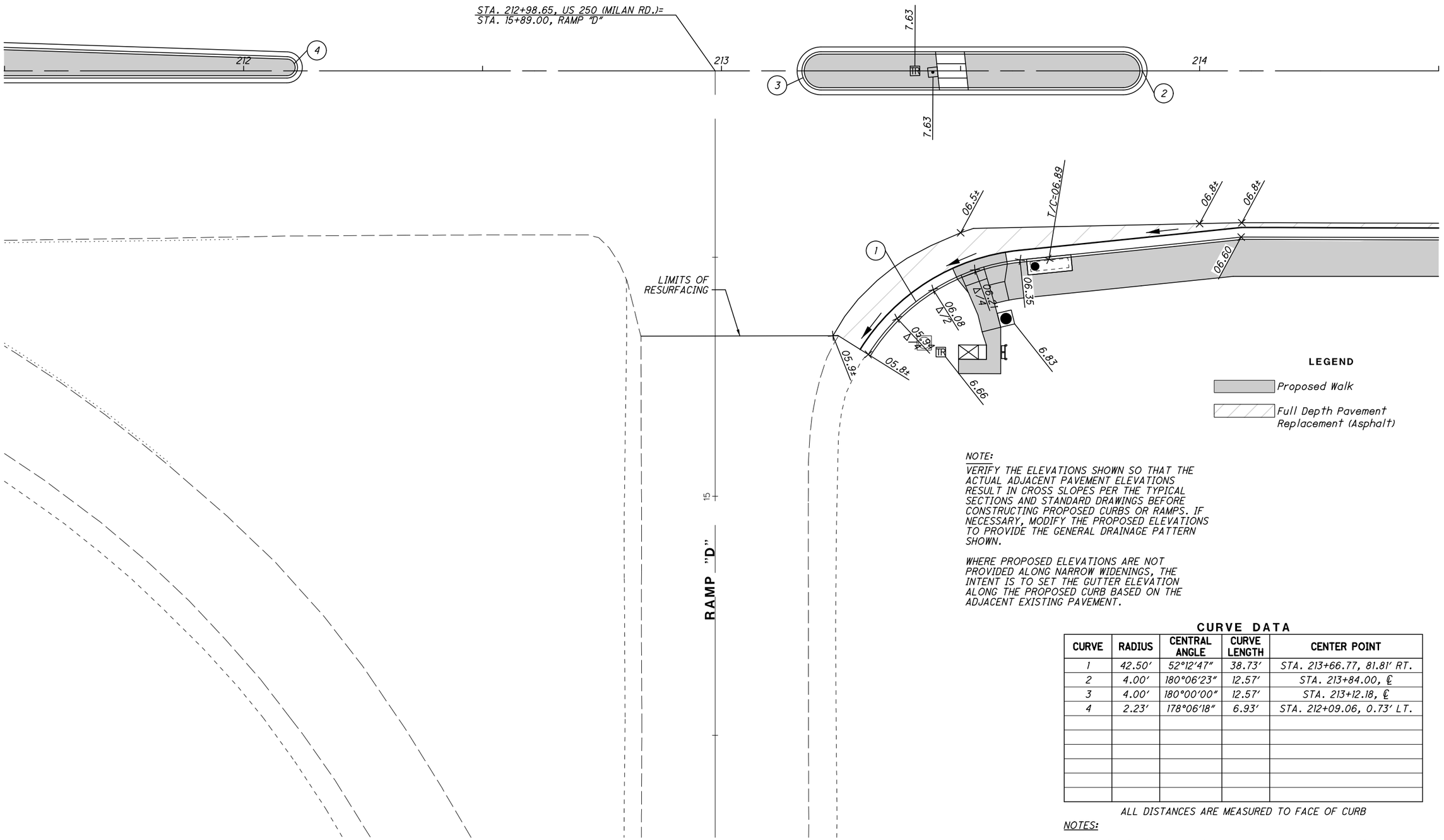
SEE SHEET 312

MILAN RD. (US-250)



LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	42.50′	52°12′47″	38.73′	STA. 213+66.77, 81.81′ RT.
2	4.00′	180°06′23″	12.57′	STA. 213+84.00, ℄
3	4.00′	180°00′00″	12.57′	STA. 213+12.18, ℄
4	2.23′	178°06′18″	6.93′	STA. 212+09.06, 0.73′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) STATIONING BASED OFF ℄ US 250

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND RAMP "D"

ERI-250-0.00

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CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	148.00′	20°26′09″	52.79′	STA. 226+66.36, 183.00′ LT.
2	48.00′	29°29′23″	24.71′	STA. 227+00.22, 89.50′ LT.
3	148.00′	20°46′19″	53.66′	STA. 226+26.88, 153.96′ LT.
4	98.00′	35°20′55″	60.46′	STA. 229+13.11, 113.51′ LT.
5	58.00′	36°36′40″	37.06′	STA. 228+77.02, 99.42′ LT.
6	98.00′	32°42′42″	55.95′	STA. 228+97.91, 133.00′ LT.
7	82.00′	21°35′37″	30.90′	STA. 228+77.02, 99.42′ LT.
8	2.00′	138°29′14″	4.83′	STA. 228+23.21, 36.00′ LT.
9	2898.79′	00°31′24″	26.48′	STA. 232+60.93, 2864.79′ RT.
10	2.00′	106°41′20″	3.72′	STA. 227+97.04, 36.00′ LT.
11	2.00′	136°56′26″	4.78′	STA. 228+04.37, 60.97′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

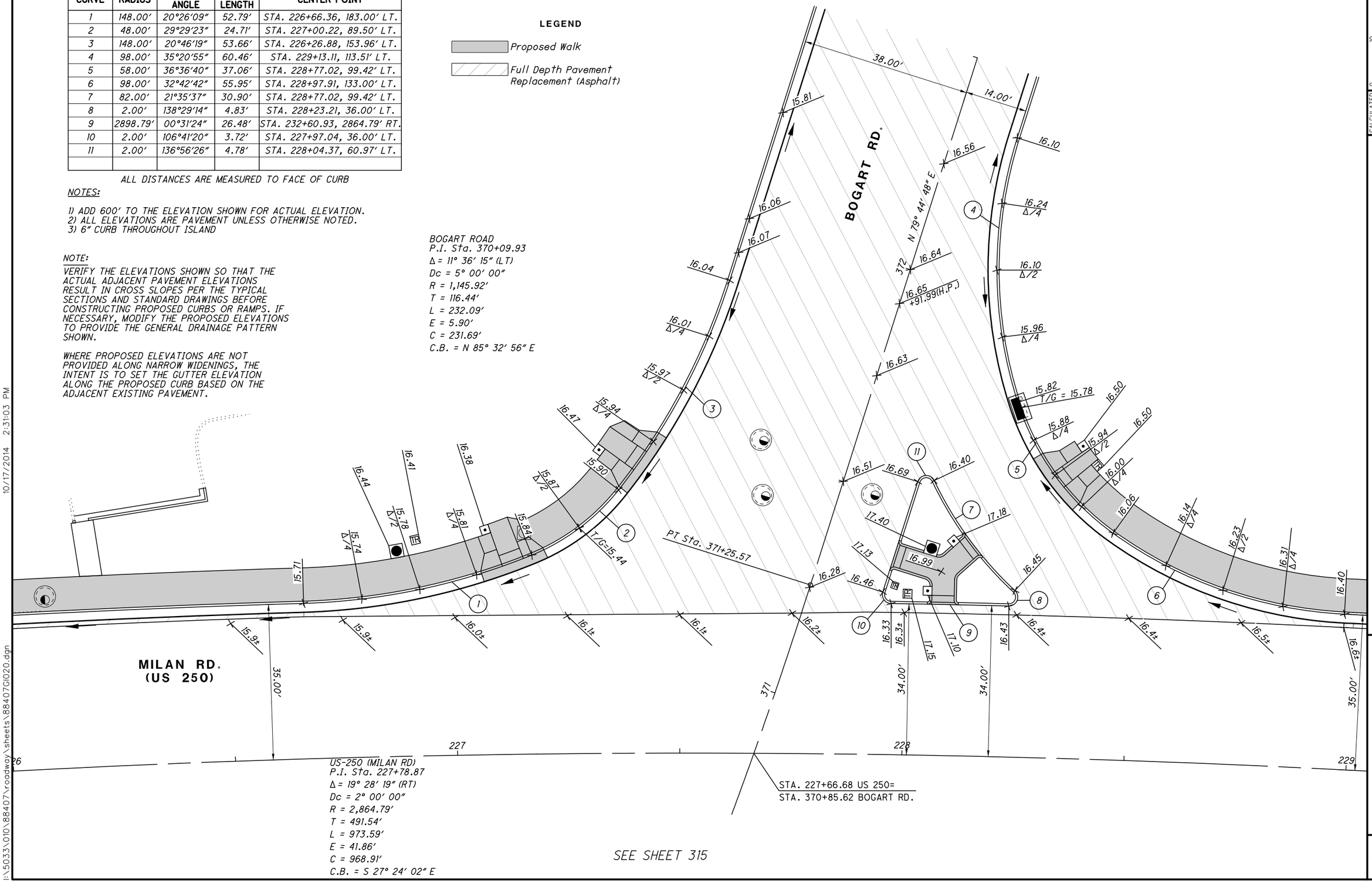
WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

BOGART ROAD
P.I. Sta. 370+09.93
Δ = 11° 36′ 15″ (LT)
Dc = 5° 00′ 00″
R = 1,145.92′
T = 116.44′
L = 232.09′
E = 5.90′
C = 231.69′
C.B. = N 85° 32′ 56″ E



US-250 (MILAN RD)
P.I. Sta. 227+78.87
Δ = 19° 28′ 19″ (RT)
Dc = 2° 00′ 00″
R = 2,864.79′
T = 491.54′
L = 973.59′
E = 41.86′
C = 968.91′
C.B. = S 27° 24′ 02″ E

SEE SHEET 315

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND BOGART ROAD

ERI-250-0.00

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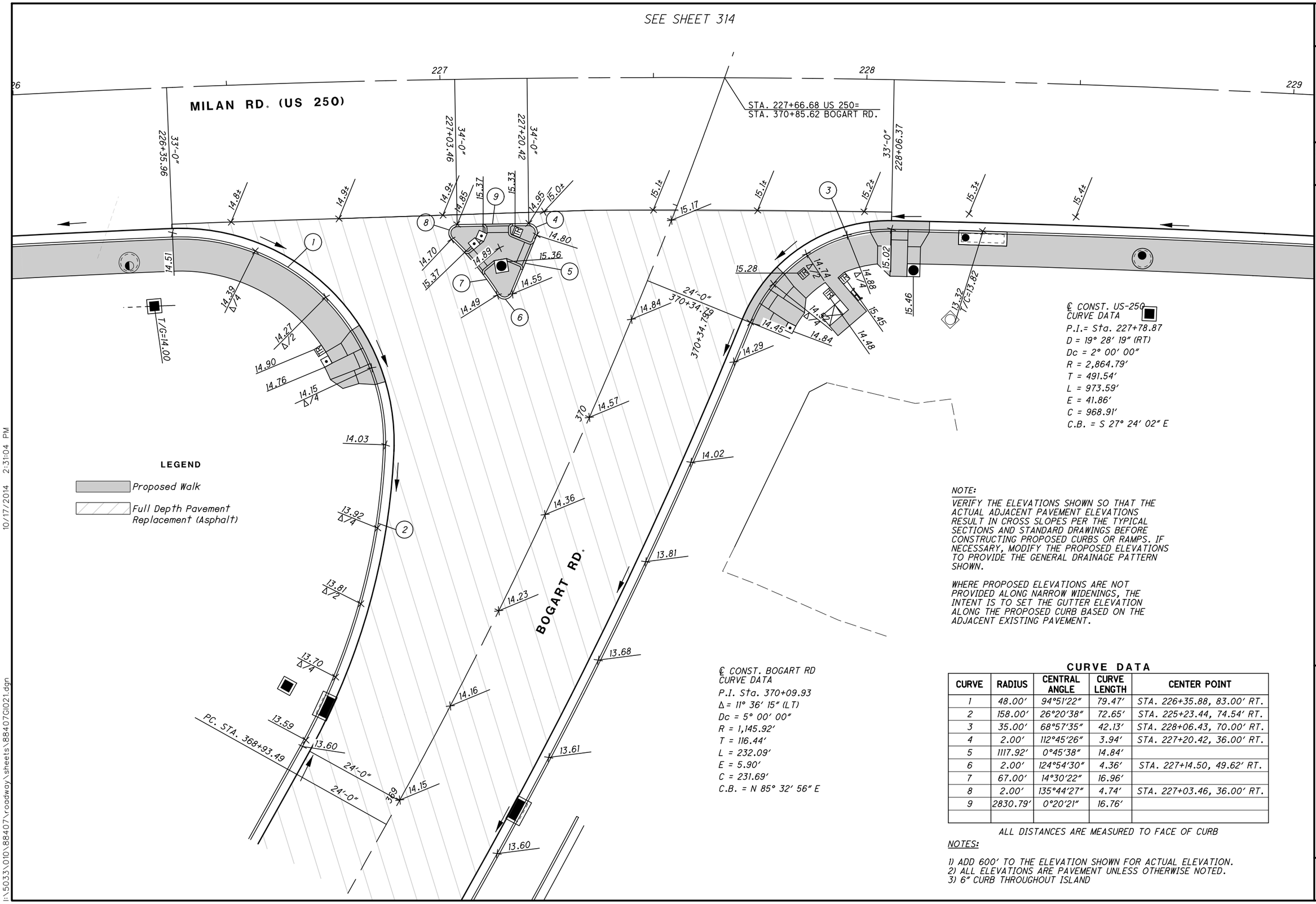
SEE SHEET 314



LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

℄ CONST. US-250
CURVE DATA
P.I.= Sta. 227+78.87
D = 19° 28′ 19″ (RT)
Dc = 2° 00′ 00″
R = 2,864.79′
T = 491.54′
L = 973.59′
E = 41.86′
C = 968.91′
C.B. = S 27° 24′ 02″ E

℄ CONST. BOGART RD
CURVE DATA
P.I. Sta. 370+09.93
Δ = 11° 36′ 15″ (LT)
Dc = 5° 00′ 00″
R = 1,145.92′
T = 116.44′
L = 232.09′
E = 5.90′
C = 231.69′
C.B. = N 85° 32′ 56″ E

NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	48.00′	94°51′22″	79.47′	STA. 226+35.88, 83.00′ RT.
2	158.00′	26°20′38″	72.65′	STA. 225+23.44, 74.54′ RT.
3	35.00′	68°57′35″	42.13′	STA. 228+06.43, 70.00′ RT.
4	2.00′	112°45′26″	3.94′	STA. 227+20.42, 36.00′ RT.
5	1117.92′	0°45′38″	14.84′	
6	2.00′	124°54′30″	4.36′	STA. 227+14.50, 49.62′ RT.
7	67.00′	14°30′22″	16.96′	
8	2.00′	135°44′27″	4.74′	STA. 227+03.46, 36.00′ RT.
9	2830.79′	0°20′21″	16.76′	

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
US 250 AND BOGART ROAD

ERI-250-0.00

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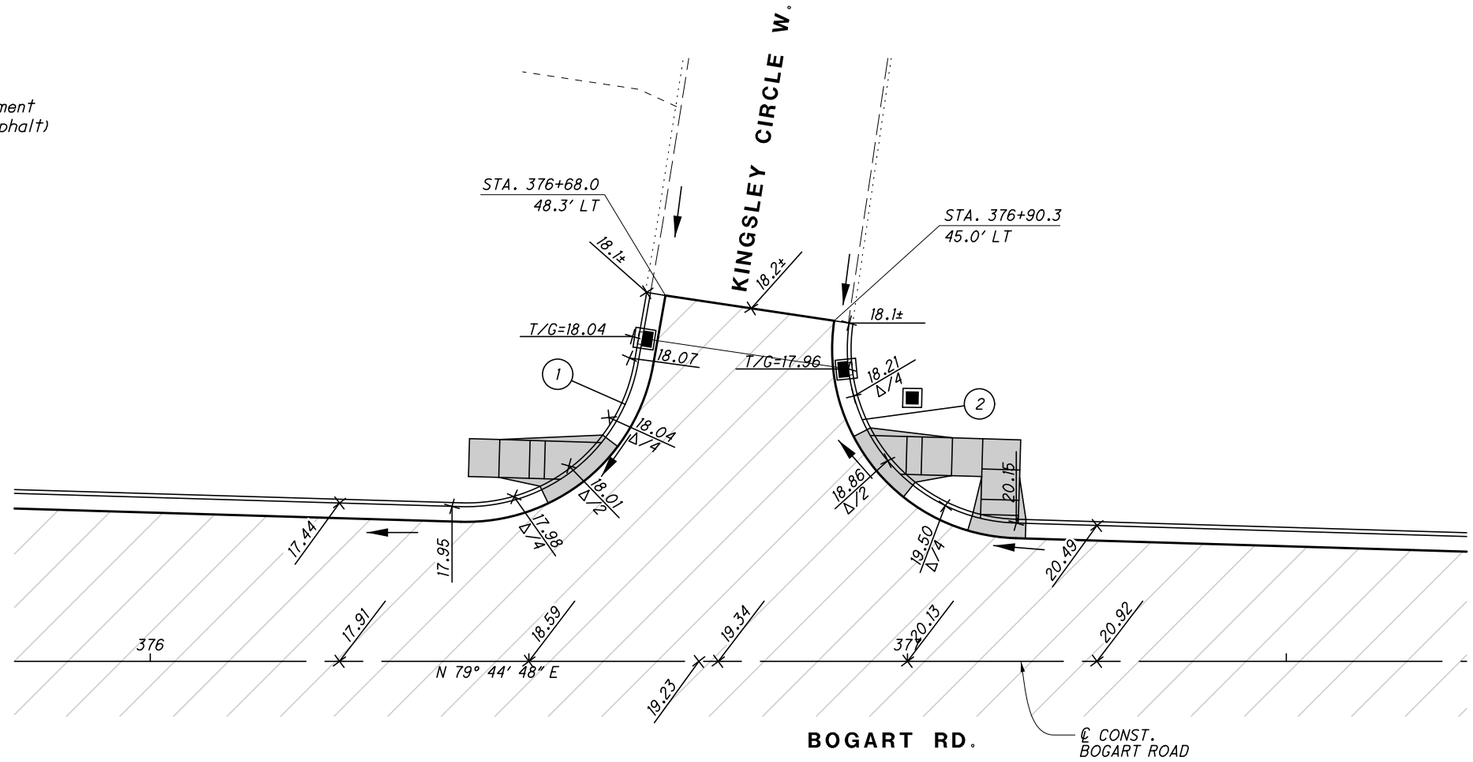
LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	23.00'	81°38'48"	32.78'	STA. 376+41.77, 43.42' LT.
2	23.00'	96°49'30"	38.87'	STA. 377+15.03, 41.25' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

INTERSECTION DETAIL
BOGART ROAD AND W. KINGSLEY CIR.

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316
677

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STA. 202+48.34 ℄ R/W & CONST. MILAN RD. (US 250) =
STA. 14+79.78 ℄ CONST. RAMP A
STA. 0+00.00 ℄ CONST. RAMP B

HORIZONTAL SCALE IN FEET

RAMP A

℄ CONST. RAMP B N 72° 51' 49" E

℄ CONST. RAMP A

N 52° 51' 49" E

STA. 201+98.19 ℄ CONST. US 250 @ ℄ CULVERT

EX. 76"x48" RCP

90°

ROCK CHANNEL PROTECTION, TYPE C, 2'-0" THICK W/FILTER

STA. 201+98.78, 77.97' LT.

CONSTRUCTION LIMITS

SIDEWALK

CONCRETE MEDIAN

SAW CUT

TO BE REMOVED

℄ RW/ & CONST. RAMP MILAN RD. (US 250)

S 37° 08' 11" E

MILAN RD. (US 250)

PAVED SHOULDER

S15

24" RCP

EX. 2" SERVICE

24"-599.0

STA. 201+97.48, 92.67' RT.

CONSTRUCTION LIMITS

HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 0.28 SQ. MI.
Q(10)	= 92 CFS
Q(100)	= 164 CFS
HW(10)	= 602.83
HW(100)	= 604.74
V(10)	= 4.5 FPS
V(100)	= 8.0 FPS

EXISTING STRUCTURE	
TYPE:	76"x48" REINFORCED CONCRETE PIPE PROJECTING FROM FILL
SIZE:	76"x48" ELIPTICAL
SKEW:	NONE
ALIGNMENT:	TANGENT
DATE BUILT:	UNKNOWN

℄ CONST. US 250

133.4'± 76"x48" RCP (EXISTING)

15'-0" 76"X48" TYPE A (706.04) | 64'-4" | 54'-1½" | 36'-0" 76"X48", TYPE A (706.04) | 15'-0"

20'-0" | 6'-0" EXIST. PIPE TO BE REMOVED | 9'-0" EXIST. PIPE TO BE REMOVED

620 / 610 / 600 / 590

EX LA | EX. 6" GAS | EX. 6" GAS | E/P EL. 601.61 | SAW CUT | PROFILE GRADE | SAW CUT | SAW CUT | SAW CUT | E/P EL. 601.61

EL. 602.83 HW (10)
EL. 604.74 HW (100)

2:1 | 4:1 | 12:1 | 3:1

EX. 76"x48" RCP | 0.07%

ROCK CHANNEL PROTECTION, TYPE C, 2'-0" THICK W/FILTER | HW-2.2 | EX. 16" WATER | ABAN. 6" WATER | 2" SERVICE WATER | HW-2.2 | ROCK CHANNEL PROTECTION, TYPE C, 2'-0" THICK W/FILTER

OUTLET ℄=598.02 | INLET ℄=599.19

LONGITUDINAL SECTION ALONG ℄ CULVERT

CALCULATED JDL | CHECKED JTY

CULVERT DETAIL - STA. 201+98.19 US 250

ERI-250-0.00

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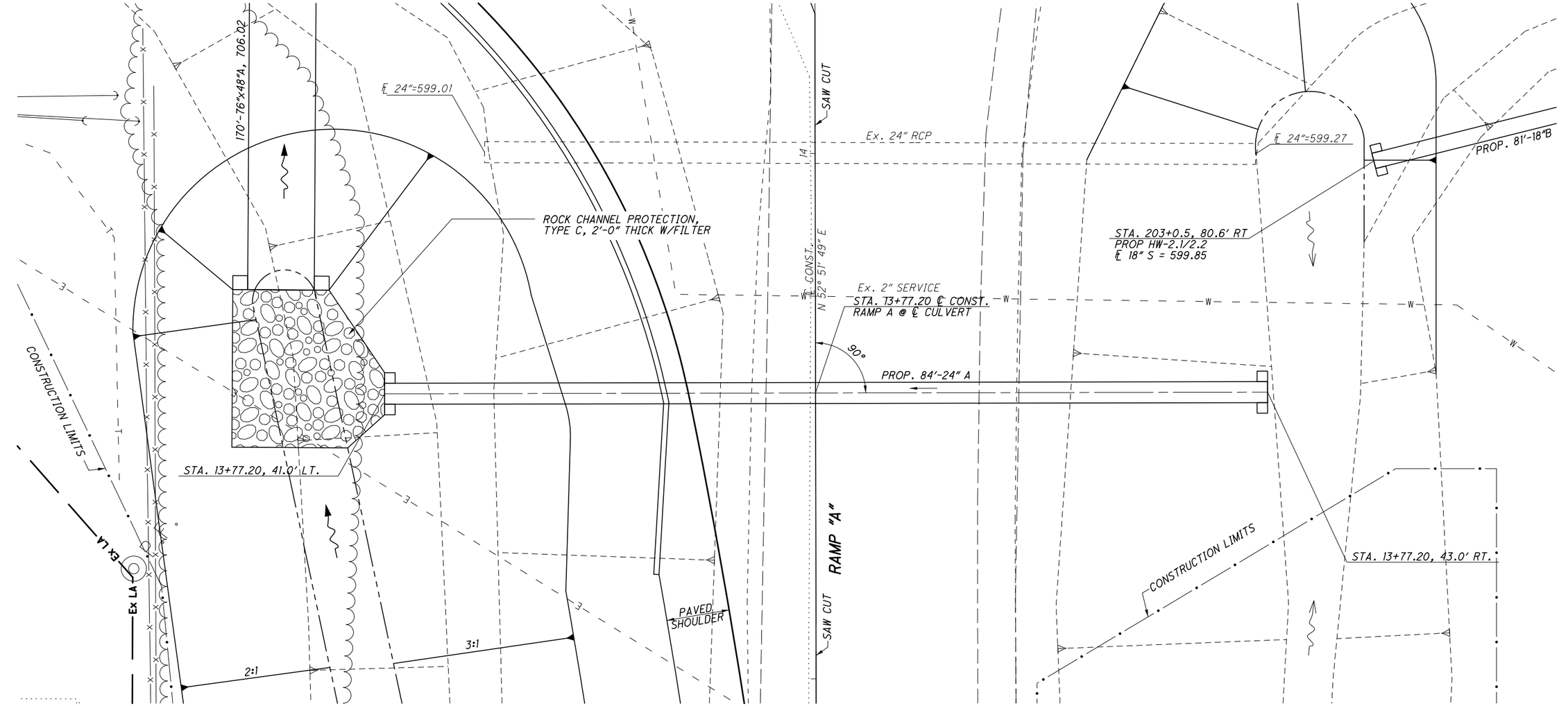
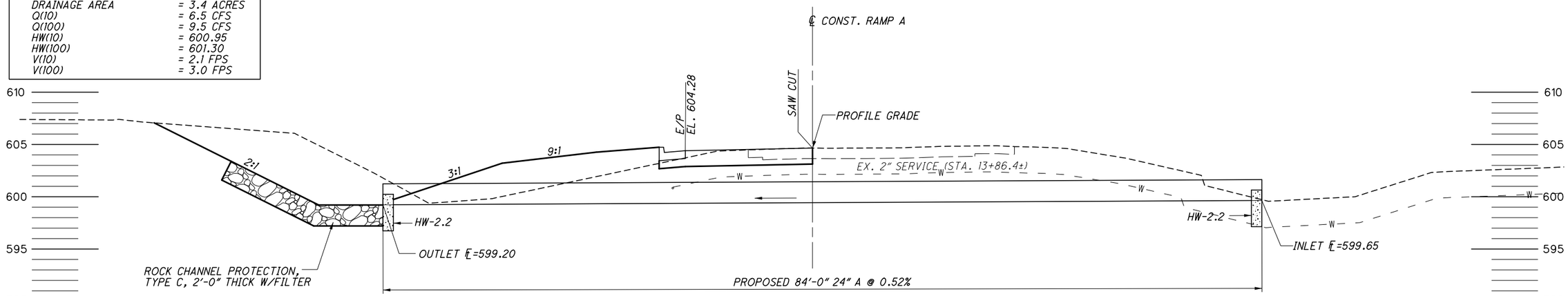


HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 3.4 ACRES
Q(10)	= 6.5 CFS
Q(100)	= 9.5 CFS
HW(10)	= 600.95
HW(100)	= 601.30
V(10)	= 2.1 FPS
V(100)	= 3.0 FPS



LONGITUDINAL SECTION ALONG ℄ CULVERT

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED JDL
CHECKED JTY

CULVERT DETAIL - STA. 13+77.20
RAMP A

ERI-250-0.00

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DRIVES (1/2)

REF. NO.	PLAN SHEET	DETAIL SHEET	STATTION	SIDE	STREET	TYPE	W, FEET	L1, FEET	L2, FEET	L3, FEET	RESIDENTIAL OR COMMERCIAL	L1 & L2 MATERIAL	L3 MATERIAL	CADD AREAS					204	301	304	407	411	441		452	
														A, RES. ASPHALT	B, RES. CONCRETE	C, COMM. ASPHALT	D, COMM. CONCRETE	E, COMM. STONE	SUBGRADE COMPACTION [(A+B+C+D+E)/9]	3" ASPHALT CONCRETE BASE, PG64-22 [(C*3/(12*27)]	6" AGGREGATE BASE [(A+C)*6/(12*27)]	TACK COAT, TRACKLESS TACK, SURFACE COURSE, [(A+C)/9 X 0.04]	10" STABILIZED CRUSHED AGGREGATE [(E*10/(12*27)]	1-1/4"AC SURF. COURSE, TYPE 1, (448), (DRIVEWAYS) [(A+C)/9 X 1.25/36]	1-3/4"AC INTER. COURSE, TYPE 2, (448), (DRIVEWAYS) [(A+C)/9 X 1.75/36]	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA [B/9]	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA [D/9]
														SQ FT	SQ FT	SQ FT	SQ FT	SQ FT	SQ YD	CU YD	CU YD	GAL	CU YD	CU YD	CU YD	SQ YD	SQ YD
DR-01	135	-	6+78	LT	SYC. LINE	2 CURBED	25.00	6.95	-	-	COM	CONC	-				205		22.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.78
DR-02	135	-	6+93	RT	SYC. LINE	2 CURBED	14.70	4.91	-	-	RES	CONC	-		94				10.44	0.00	0.00	0.00	0.00	0.00	0.00	10.44	0.00
DR-03	135	-	7+28	RT	SYC. LINE	2 CURBED	11.00	4.20	-	-	RES	CONC	-		65				7.22	0.00	0.00	0.00	0.00	0.00	0.00	7.22	0.00
DR-04	135	-	0+05	RT	SYC. LINE	2 CURBED	9.50	VAR	VAR	-	RES	CONC	-		108				12.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00
DR-05	135	-	0+71	RT	SYC. LINE	2 IN WALK	12.00	3.00	7.00	16.60	RES	CONC	CONC		313				34.78	0.00	0.00	0.00	0.00	0.00	0.00	34.78	0.00
DR-06	135	-	1+17	RT	SYC. LINE	2 IN WALK	17.20	3.00	7.00	0.60	RES	CONC	CONC		190				21.11	0.00	0.00	0.00	0.00	0.00	0.00	21.11	0.00
DR-07	137-8	323	70+15	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	ASPH			1373	364		193.00	12.71	25.43	6.10	0.00	5.30	7.42	0.00	40.44
DR-08	139	-	77+80	LT	MILAN	2 IN WALK	10.00	2.50	7.00	40.00	RES	CONC	CONC		879				97.67	0.00	0.00	0.00	0.00	0.00	0.00	97.67	0.00
DR-09	139	-	78+45	LT	MILAN	2 IN WALK	9.50	2.50	±	32.00	RES	CONC	CONC		401				44.56	0.00	0.00	0.00	0.00	0.00	0.00	44.56	0.00
DR-10	139	-	79+05	LT	MILAN	2 IN WALK	9.00	2.50	7.00	24.00	RES	CONC	CONC		308				34.22	0.00	0.00	0.00	0.00	0.00	0.00	34.22	0.00
DR-11	139	-	79+65	LT	MILAN	2 IN WALK	10.00	2.50	7.00	19.00	RES	CONC	CONC		292				32.44	0.00	0.00	0.00	0.00	0.00	0.00	32.44	0.00
DR-12	140	-	80+22	LT	MILAN	2 IN WALK	15.50	2.50	7.00	11.00	RES	CONC	CONC		325				36.11	0.00	0.00	0.00	0.00	0.00	0.00	36.11	0.00
DR-13	140	-	80+83	LT	MILAN	2 IN WALK	10.50	2.50	7.00	15.00	RES	CONC	CONC		264				29.33	0.00	0.00	0.00	0.00	0.00	0.00	29.33	0.00
DR-14	140	-	81+43	LT	MILAN	2 IN WALK	9.50	2.50	7.00	7.22	RES	CONC	CONC		177				19.67	0.00	0.00	0.00	0.00	0.00	0.00	19.67	0.00
DR-15	140	-	83+32	LT	MILAN	2 IN WALK	31.80	2.50	7.00	5.00	RES	CONC	CONC		467				51.89	0.00	0.00	0.00	0.00	0.00	0.00	51.89	0.00
DR-16	141	324	85+34	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	ASPH			819			91.00	7.58	15.17	3.64	0.00	3.16	4.42	0.00	0.00
DR-17	141	324	86+30	LT	MILAN	1 CURBED	-	-	-	-	COM	CONC	-				281		31.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.22
DR-18	141	-	87+62	LT	MILAN	2 IN WALK	9.60	2.50	7.00	6.80	RES	CONC	CONC		163				18.11	0.00	0.00	0.00	0.00	0.00	0.00	18.11	0.00
DR-19	141	-	88+34	LT	MILAN	2 IN WALK	20.67	2.50	7.00	1.00	COM	CONC	CONC				234		26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.00
DR-20	141		85+96	RT	MILAN	CURB ONLY					COM	ASPH	-			24			2.67	0.22	0.44	0.11	0.00	0.09	0.13	0.00	0.00
DR-21	141	325	87+73	RT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	ASPH			635			70.56	5.88	11.76	2.82	0.00	2.45	3.43	0.00	0.00
DR-22	141	325	89+00	RT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	ASPH			5340			593.33	49.44	98.89	23.73	0.00	20.60	28.84	0.00	0.00
DR-23	141-142	326	93+22	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	ASPH			1148			127.56	10.63	21.26	5.10	0.00	4.43	6.20	0.00	0.00
DR-24	142		90+32	RT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	ASPH			595			66.11	5.51	11.02	2.64	0.00	2.30	3.21	0.00	0.00
DR-25	146-7	327	129+37	RT	MILAN	RIRO	-	-	-	-	COM	ASPH	ASPH			2598			288.67	24.06	48.11	11.55	0.00	10.02	14.03	0.00	0.00
DR-25A	148	-	134+11	RT	MILAN	CURB ONLY					COM	ASPH	-			29			3.22	0.27	0.54	0.13	0.00	0.11	0.16	0.00	0.00
DR-26	149	-	142+27.5	LT	MILAN	2 IN WALK	20.40	2.50	7.00	2.00	COM	CONC	CONC				282		31.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.33
DR-27	150	-	143+31	LT	MILAN	CURB ONLY					COM	ASPH	-			20			2.22	0.19	0.37	0.09	0.00	0.08	0.11	0.00	0.00
DR-28	150	-	144+90	LT	MILAN	2 IN WALK	24.00	2.50	7.00	0.00	COM	CONC	CONC			153	282		48.33	1.42	2.83	0.68	0.00	0.59	0.83	0.00	31.33
DR-29	150	-	145+53	LT	MILAN	2 IN WALK	28.00	2.50	7.00	2.00	COM	CONC	CONC				328		36.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.44
DR-30	151	-	148+12	LT	MILAN	2 IN WALK	20.00	2.50	7.00	2.00	COM	CONC	CONC				236		26.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.22
DR-31	153	329	159+90	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			3281			364.56	30.38	60.76	14.58	0.00	12.66	17.72	0.00	0.00
DR-32	153-4	330	163+13	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			2488			276.44	23.04	46.07	11.06	0.00	9.60	13.44	0.00	0.00
DR-33	155	331	172+05	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			3288			365.33	30.44	60.89	14.61	0.00	12.69	17.76	0.00	0.00
DR-34	155	331	172+12	RT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	-			970			107.78	8.98	17.96	4.31	0.00	3.74	5.24	0.00	0.00
DR-35	156	332	174+21	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			3163			351.44	29.29	58.57	14.06	0.00	12.20	17.08	0.00	0.00
DR-36	156	-	175+21	RT	MILAN	2 IN WALK	12.00	2.50	7.00	11.30	RES	CONC	CONC		256				28.44	0.00	0.00	0.00	0.00	0.00	0.00	28.44	0.00
DR-37	156-7	333	177+63	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			3005			333.89	27.82	55.65	13.36	0.00	11.59	16.23	0.00	0.00
DR-38	157	342	180+71	RT	MILAN	CURB ONLY					COM	ASPH				77			8.56	0.71	1.43	0.34	0.00	0.30	0.42	0.00	0.00
DR-39	157	-	182+24	LT	MILAN	CURB ONLY					COM	ASPH				27			3.00	0.25	0.50	0.12	0.00	0.10	0.15	0.00	0.00
DR-40	158	-	184+64	LT	MILAN	2 IN WALK	18.00	2.50	7.00	1.00	COM	CONC	CONC				199		22.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.11
DR-41	158	334	186+82	LT	MILAN	2 IN WALK	15.00	2.50	7.00	DET	RES	CONC	CONC		748				83.11	0.00	0.00	0.00	0.00	0.00	0.00	83.11	0.00
DR-42	158	334	187+17	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			1703			189.22	15.77	31.54	7.57	0.00	6.57	9.20	0.00	0.00
DR-43	159	335	188+91	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	-			800			88.89	7.41	14.81	3.56	0.00	3.09	4.32	0.00	0.00
DR-44	159	335	190+71	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	-			1162			129.11	10.76	21.52	5.16	0.00	4.48	6.28	0.00	0.00
DR-45	159-160	336	192+92	LT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			2003			222.56	18.55	37.09	8.90	0.00	7.73	10.82	0.00	0.00
TOTALS TO SHEET 320:																			4684.67	321.31	642.62	154.23	0.00	133.88	187.43	561.12	267.89

CALCULATED LMZ
CHECKED GAB

DRIVE SUBSUMMARY - SHEET 1 OF 2

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DRIVES (2/2)

REF. NO.	PLAN SHEET	DETAIL SHEET	STATTION	SIDE	STREET	TYPE	W. FEET	L1. FEET	L2. FEET	L3. FEET	RESIDENTIAL OR COMMERCIAL	L1 & L2 MATERIAL	L3 MATERIAL	CADD AREAS					204	301	304	407	411	441		452	
														A, RES. ASPHALT	B, RES. CONCRETE	C, COMM. ASPHALT	D, COMM. CONCRETE	E, COMM. STONE	SUBGRADE COMPACTION [(A+B+C+D+E)/9]	3" ASPHALT CONCRETE BASE, PG64-28 [C*3/(12*27)]	6" AGGREGATE BASE [(A+C)*6/(12*27)]	TACK COAT, TRACKLESS TACK, SURFACE COURSE, [(A+C)/9 X 0.04]	10" STABILIZED CRUSHED AGGREGATE [E*10/(12*27)]	1-1/4"AC SURF. COURSE, TYPE 1, (448), (DRIVEWAYS) [(A+C)*1.25/(12*27)]	1-3/4"AC INTER. COURSE, TYPE 2, (448), (DRIVEWAYS) [(A+C)*1.75/(12*27)]	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA [B/9]	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA [D/9]
														SQ FT	SQ FT	SQ FT	SQ FT	SQ FT	SQ YD	CU YD	CU YD	GAL	CU YD	CU YD	CU YD	SQ YD	SQ YD
DR-46	160	336	193+81	RT	MILAN	RIRO	-	-	-	-	COM	ASPH	-			845			93.89	7.82	15.65	3.76	0.00	3.26	4.56	0.00	0.00
DR-47	160, 262	-	195+40	RT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH	-			130			14.44	1.20	2.41	0.58	0.00	0.50	0.70	0.00	0.00
DR-48	160, 262	-	195+60	LT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH	-			118			13.11	1.09	2.19	0.52	0.00	0.46	0.64	0.00	0.00
DR-49	160-161	-	197+32	RT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH	-			292			32.44	2.70	5.41	1.30	0.00	1.13	1.58	0.00	0.00
DR-50	161	337	198+62	RT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	-			1323			147.00	12.25	24.50	5.88	0.00	5.10	7.15	0.00	0.00
DR-51	161	-	1+07	RT	RAMADA	1 CURBED	-	4.50	-	-	COM	CONC	-				209		23.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.22
DR51A	161	337	19967	LT	MILAN	1 CURBED	-	-	-	-	COM	CONC					1615		179.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.44
DR-52	162	-	203+68	RT	MILAN	2 UNCURBED	16.00	15.00	-	25.60	COM	ASPH	ASPH			876			97.33	8.11	16.22	3.89	0.00	3.38	4.73	0.00	0.00
DR-53	164	-	212+08	LT	MILAN	2 UNCURBED	16.00	15.00	-	32.00	COM	ASPH	ASPH			972			108.00	9.00	18.00	4.32	0.00	3.75	5.25	0.00	0.00
DR-54	164	-	214+15	LT	MILAN	CURB ONLY					COM	ASPH				29			3.22	0.27	0.54	0.13	0.00	0.11	0.16	0.00	0.00
DR-55	165	338	216+40	RT	MILAN	2 IN WALK	24.00	2.50	5.00	36.10	COM	CONC	CONC				1303		144.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144.78
DR-56	165	338	217+79	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	-			828			92.00	7.67	15.33	3.68	0.00	3.19	4.47	0.00	0.00
DR-57	165	338	217+90	RT	MILAN	1 CURBED	-	-	-	-	COM	CONC	-			315	883		133.11	2.92	5.83	1.40	0.00	1.22	1.70	0.00	98.11
DR-58	165	339	219+39	LT	MILAN	2 IN WALK	27	2.5	5.00	4.00	COM	CONC	CONC				377		41.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.89
DR-59	165	339	220+42	LT	MILAN	1 CURBED	-	-	-	-	COM	ASPH	-			990			110.00	9.17	18.33	4.40	0.00	3.82	5.35	0.00	0.00
DR-60	165	339	220+77	RT	MILAN	1 CURBED	-	-	-	-	COM	CONC	-				1166		129.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.56
DR-61	166	-	221+35	LT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH	-			46			5.11	0.43	0.85	0.20	0.00	0.18	0.25	0.00	0.00
DR-62	166	-	222+93	LT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH	-			58			6.44	0.54	1.07	0.26	0.00	0.22	0.31	0.00	0.00
DR-63	166	340	223+71	RT	MILAN	2 IN WALK	24.00	2.50	5.00	17.75	COM	CONC	ASPH			704	235		104.33	6.52	13.04	3.13	0.00	2.72	3.80	0.00	26.11
DR-64	166	-	225+13	LT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH				42			4.67	0.39	0.78	0.19	0.00	0.16	0.23	0.00	0.00
DR-65	166	-	225+19	RT	MILAN	2 IN WALK	12.00	2.50	5.00	6.25	RES	CONC	CONC		195				21.67	0.00	0.00	0.00	0.00	0.00	0.00	21.67	0.00
DR-66	167	-	226+31	LT	MILAN	CURB ONLY	-	-	-	-	COM	ASPH	-			32			3.56	0.30	0.59	0.14	0.00	0.12	0.17	0.00	0.00
DR-67	167	341	229+34	LT	MILAN	2 IN WALK	24.00	2.50	5.00	0.00	COM	CONC	-				234		26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.00
DR-68	167	341	229+35	RT	MILAN	1 CURBED, RI	-	-	-	-	COM	CONC	ASPH			678	271		105.44	6.28	12.56	3.01	0.00	2.62	3.66	0.00	30.11
DR-69	168	341	231+33	RT	MILAN	2 IN WALK	42.75	2.50	5.00	17.75	COM	CONC	ASPH			1128	414		171.33	10.44	20.89	5.01	0.00	4.35	6.09	0.00	46.00
DR-70	168	341	232+66	RT	MILAN	2 IN WALK	34.00	2.50	5.00	26.45	COM	CONC	STN				330	899	136.56	0.00	0.00	0.00	27.75	0.00	0.00	0.00	36.67
DR-71	254	342	47+39	LT	CROSSINGS	1 CURBED	-	-	-	-	COM	ASPH	-			1716			190.67	15.89	31.78	7.63	0.00	6.62	9.27	0.00	0.00
DR-72	255	-	181+33	LT	CROSSINGS	1 CURBED	-	-	-	-	COM	ASPH	-			52			5.78	0.48	0.96	0.23	0.00	0.20	0.28	0.00	0.00
DR-73	261	343	47+09	LT	BAY WINDS	1 CURBED	-	-	-	-	COM	ASPH	-			1075			119.44	9.95	19.91	4.78	0.00	4.15	5.81	0.00	0.00
DR-74	261	344	47+17	RT	BAY WINDS	1 CURBED	-	-	-	-	COM	ASPH	-			2345			260.56	21.71	43.43	10.42	0.00	9.05	12.67	0.00	0.00
DR-75	262	-	52+50	RT	S PARK PL	1 CURBED	-	-	-	-	COM	ASPH	-			111			12.33	1.03	2.06	0.49	0.00	0.43	0.60	0.00	0.00
DR-76	272	-	363+18	LT	BOGART	2 UNCURBED	21.91	14.28	-	-	RES	CONC	-		517				57.44	0.00	0.00	0.00	0.00	0.00	0.00	57.44	0.00
DR-77	272	-	363+72	LT	BOGART	2 UNCURBED	15.93	12.68	-	-	RES	CONC	-		364				40.44	0.00	0.00	0.00	0.00	0.00	0.00	40.44	0.00
DR-78	272-273	-	364+91	RT	BOGART	2 UNCURBED	22.58	12.00	-	-	RES	ASPH	-	415					46.11	0.00	7.69	1.84	0.00	1.60	2.24	0.00	0.00
DR-79	273	-	365+47	LT	BOGART	2 UNCURBED	9.00	11.50	-	-	RES	CONC	-		231				25.67	0.00	0.00	0.00	0.00	0.00	0.00	25.67	0.00
DR-80	273	-	365+67	RT	BOGART	2 UNCURBED	19.63	12.00	-	-	RES	CONC	-		380				42.22	0.00	0.00	0.00	0.00	0.00	0.00	42.22	0.00
DR-81	273	-	365+75	LT	BOGART	2 UNCURBED	15.80	10.66	-	-	RES	ASPH	-	277					30.78	0.00	5.13	1.23	0.00	1.07	1.50	0.00	0.00
DR-82	273	-	367+44	LT	BOGART	2 UNCURBED	15.86	12.00	-	-	RES	CONC	-		241				26.78	0.00	0.00	0.00	0.00	0.00	0.00	26.78	0.00
DR-83	273	345	368+51	RT	BOGART	1 CURBED	-	-	-	-	COM	ASPH	-			441			49.00	4.08	8.17	1.96	0.00	1.70	2.38	0.00	0.00
DR-84	273	-	368+62	LT	BOGART	2 CURBED	24.00	13.50	-	5.12	COM	CONC	STN			389			43.22	3.60	7.20	1.73	0.00	1.50	2.10	0.00	0.00
DR-85	274	-	373+22	LT	BOGART	2 CURBED	16.00	11.50	-	19.00	RES	CONC	CONC		621				69.00	0.00	0.00	0.00	0.00	0.00	0.00	69.00	0.00
DR-86	275	-	375+18	RT	BOGART	2 CURBED	14.00	12.50	-	20.9	COM	ASPH	ASPH			664			73.78	6.15	12.30	2.95	0.00	2.56	3.59	0.00	0.00
DR-87	276	-	378+24	LT	BOGART	2 CURBED	12.3	12.50	-	0	RES	CONC	CONC		311				34.56	0.00	0.00	0.00	0.00	0.00	0.00	34.56	0.00
DR-88	276	345	378+54	RT	BOGART	1 CURBED	-	-	-	-	COM	ASPH	-			464			51.56	4.30	8.59	2.06	0.00	1.79	2.51	0.00	0.00
TOTALS THIS SHEET:																			3127.89	154.29	321.39	77.14	27.75	66.96	93.74	317.78	781.89
TOTALS FROM SHEET 319:																			4684.67	321.31	642.62	154.23	0.00	133.88	187.43	561.12	267.89
TOTALS TO GENERAL SUMMARY:																			**7813**	**476**	**965**	**232**	**28**	**201**	**282**	**879**	**1050**

CALCULATED LMZ
CHECKED GAB

DRIVE SUBSUMMARY - SHEET 2 OF 2

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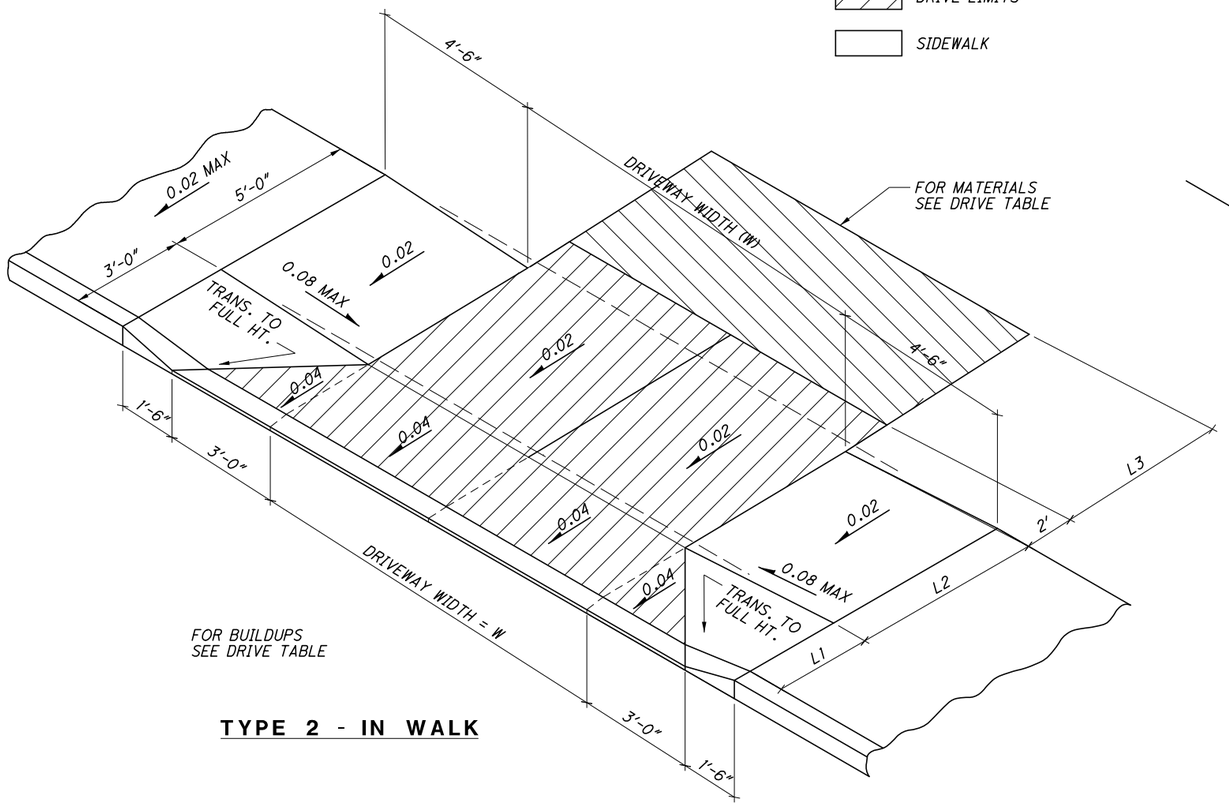
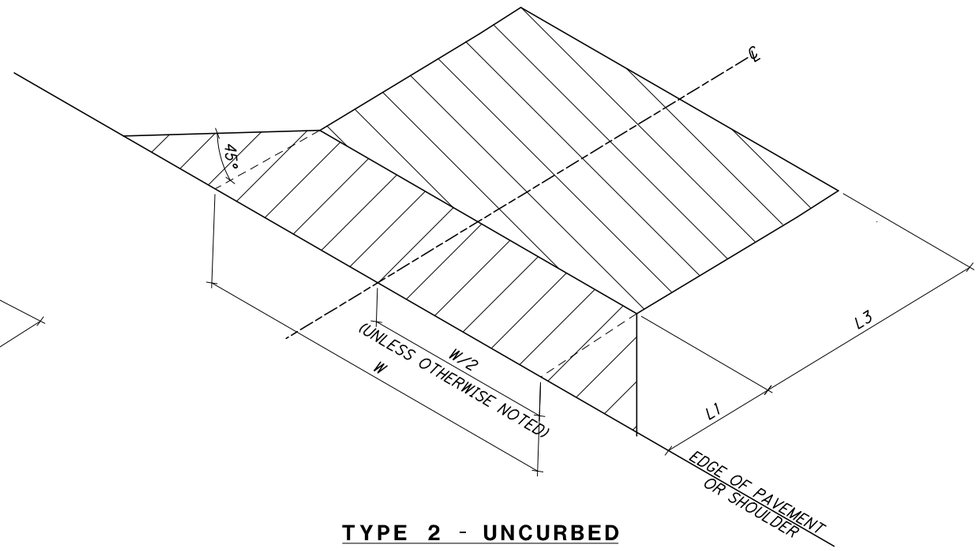
LEGEND

DRIVE LIMITS

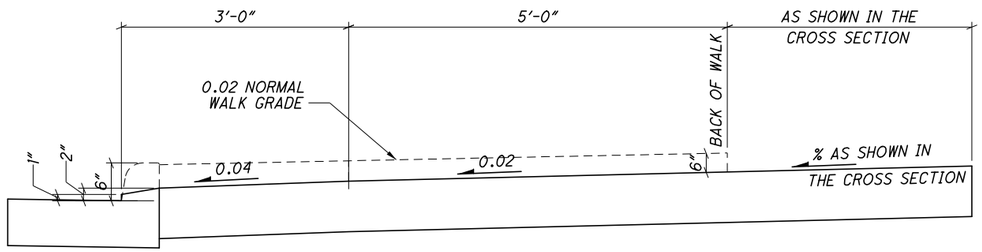
SIDEWALK



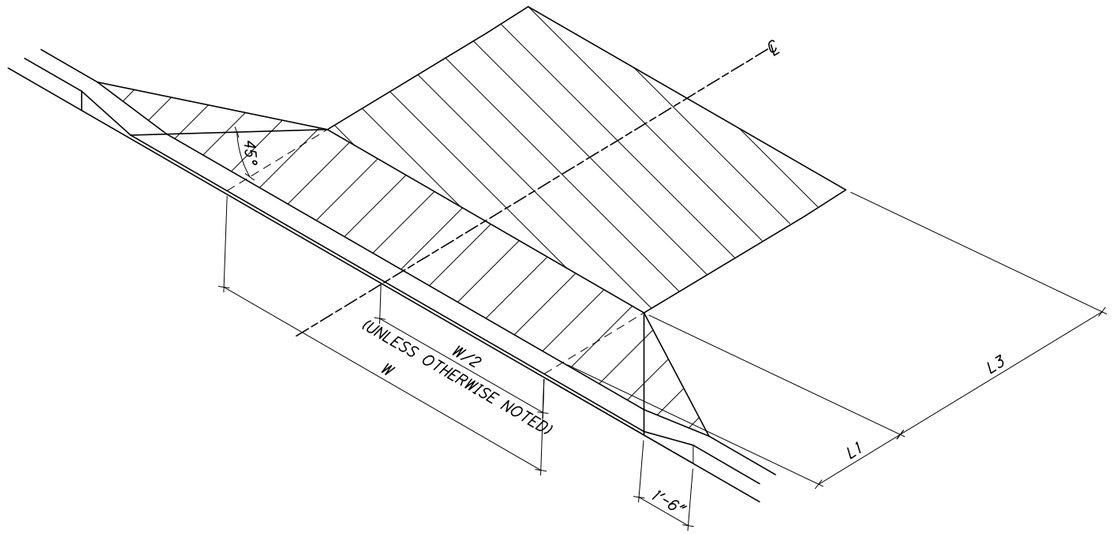
TYPE 2 - IN WALK



TYPE 2 - UNCURBED



DRIVEWAY PROFILE (IN WALK)
(FOR OTHER TYPES, SEE CROSS SECTIONS AND DETAILS)



TYPE 2 - CURBED

CALCULATED | CHECKED

DRIVE DETAILS

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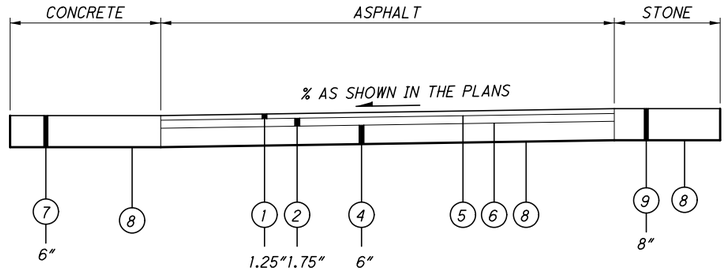
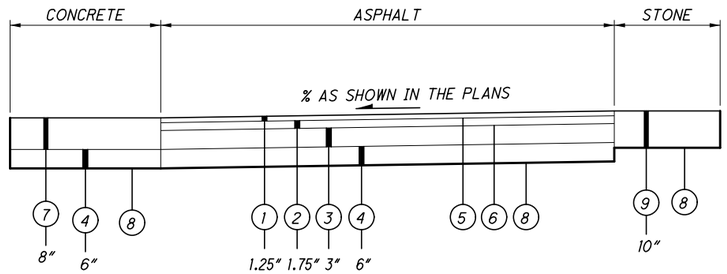


RESIDENTIAL DRIVEWAY BUILDUPS



COMMERCIAL DRIVEWAY BUILDUPS

PROPOSED DRIVEWAY PROFILE LEGEND

(1) 442-ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448) (DRIVEWAYS)
(2) 442-ASPHALT CONCRETE INTERMEDIATE SURFACE COURSE, 19MM, TYPE A (448) (DRIVEWAYS)
(3) 301-ASPHALT CONCRETE BASE, PG-64-22
(4) 304-AGGREGATE BASE
(5) 407-TACK COAT, TRACKLESS TACK, SURFACE COURSE
(6) 407-TACK COAT, TRACKLESS TACK, INTERMEDIATE COURSE
(7) 452-NON-REINFORCED CONCRETE PAVEMENT
(8) 204-SUBGRADE COMPACTION
(9) 411-STABILIZED CRUSHED AGGREGATE

CALCULATED | CHECKED

DRIVE DETAILS

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LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

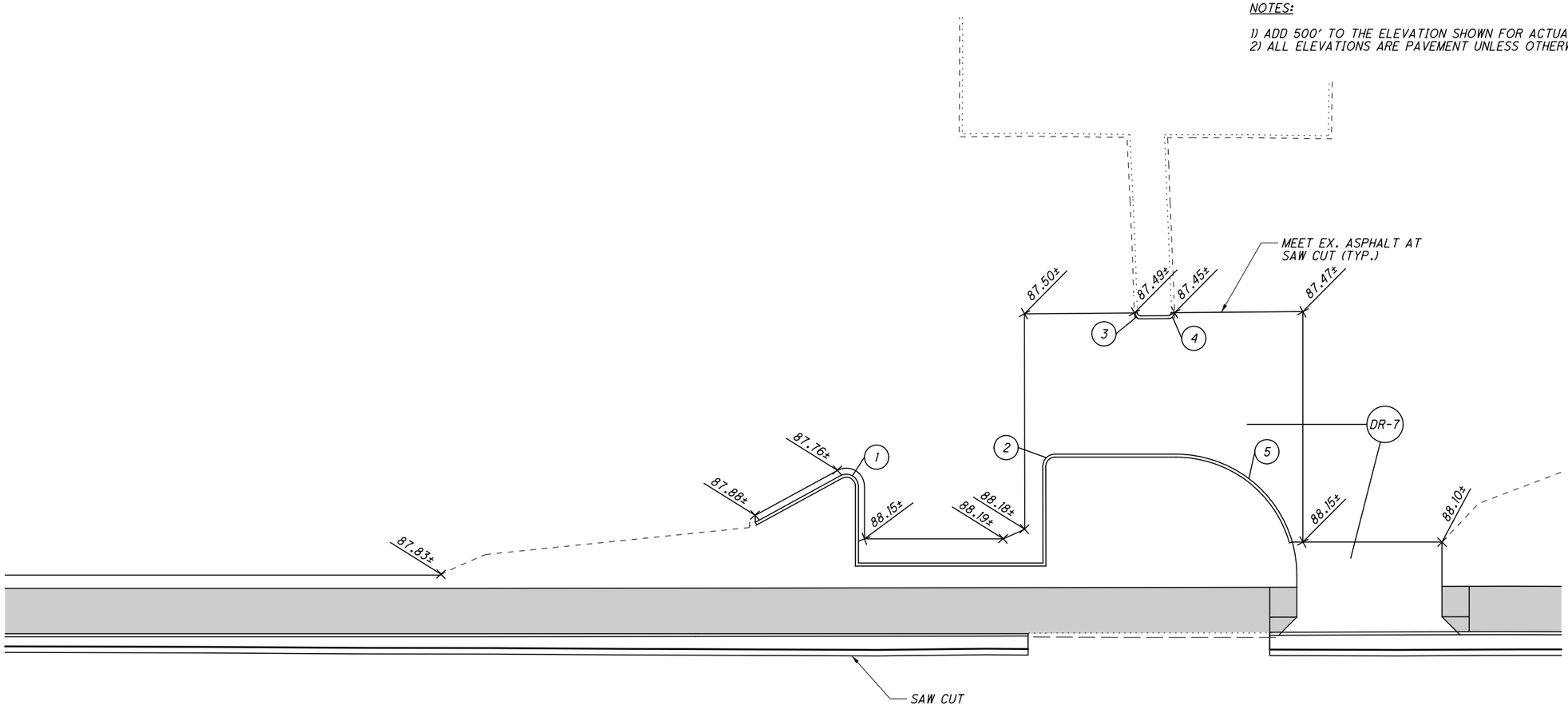
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	2.00′	118°38′08″	4.14′	STA. 69+28.48, 59.69′ LT.
2	2.00′	90°03′41″	3.14′	STA. 69+62.98, 63.00′ LT.
3	1.00′	89°23′17″	1.54′	STA. 69+77.13, 88.36′ LT.
4	1.00′	90°43′58″	1.58′	STA. 69+81.70, 88.40′ LT.
5	20.00′	74°08′50″	25.88′	STA. 69+83.00, 45.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 500′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-7)
US 250 AT STA. 68+97

ERI-250-0.00

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LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Existing Pavement Removed

NOTE:

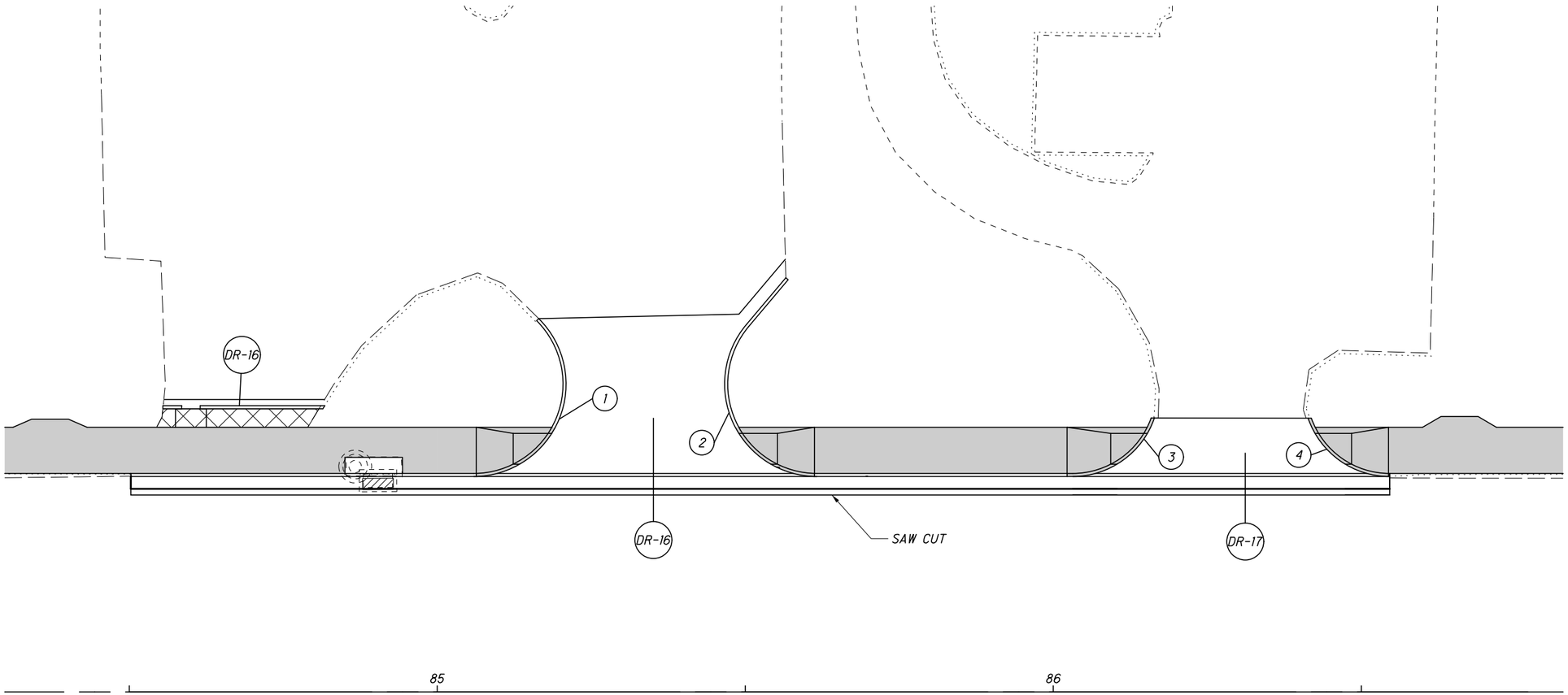
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	15.00′	135°12′32″	35.40′	STA. 85+05.91, 50.00′ LT.
2	15.00′	130°09′20″	34.07′	STA. 85+61.64, 50.00′ LT.
3	14.00′	71°12′03″	17.40′	STA. 86+03.16, 49.00′ LT.
4	14.00′	71°08′14″	17.38′	STA. 86+54.62, 49.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-16 & DR-17)
US 250 AT STA. 85+34 & 86+30

ERI-250-0.00

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677

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NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

	Proposed Walk
	Full Depth Pavement Replacement (Asphalt)
EP	Edge of Pavement Elevation at Face of Curb
BW	Back of Walk Elevation
TC	Top of Curb Elevation

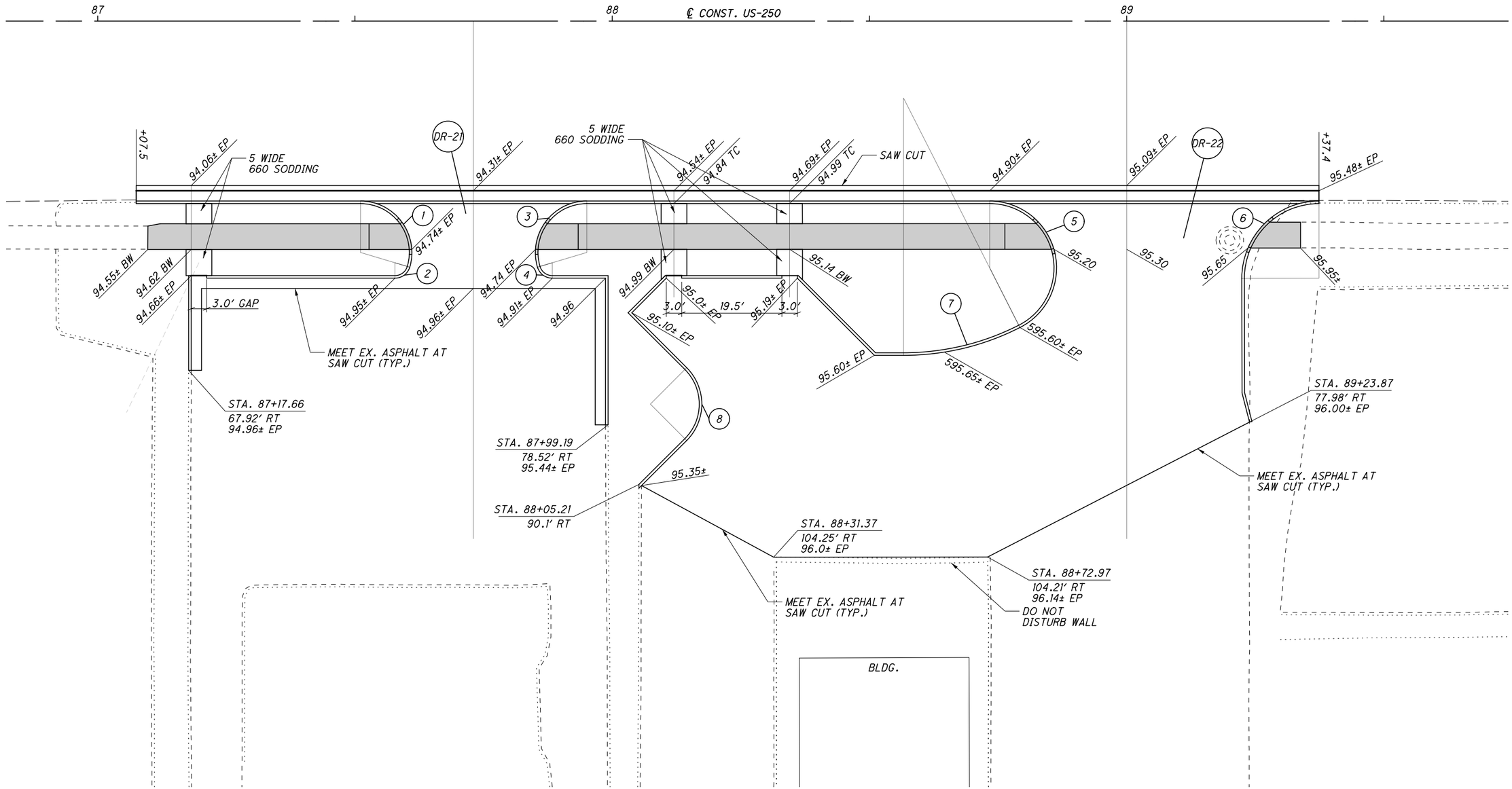
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	10.00′	106°36′06	18.61′	STA. 87+51.07, 45.00′ RT.
2	3.00′	73°23′54″	3.84′	STA. 87+57.78, 47.00′ RT.
3	10.00′	106°36′06	18.61′	STA. 87+95.07, 45′.00 RT.
4	3.00′	73°23′54″	3.84′	STA. 87+88.36, 47.00′ RT.
5	13.00′	153°6′43″	34.74′	STA. 88+73.38, 48.00′ RT.
6	15.00′	90°09′00″	23.60′	STA. 89+37.39, 50.00′ RT.
7	50.00′	26°53′17″	23.46′	STA. 88+56.65, 15.00′ RT.
8	10.00′	90°3′36″	15.72′	STA. 88+07.42, 74.47′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 500′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-21 & DR-22)
US 250 AT STA. 87+73 & 89+00

ERI-250-0.00

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LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Existing Pavement Removed

NOTE:

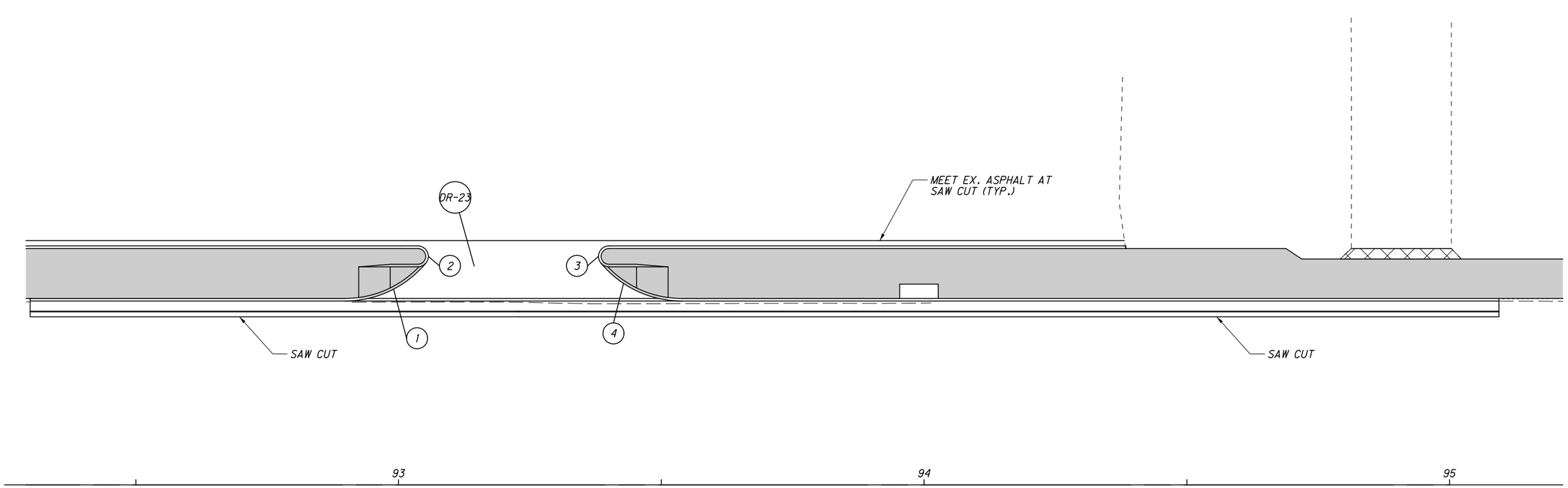
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	20.00′	50°17′28″	17.55′	STA. 92+89.81, 55.00′ LT.
2	2.00′	180°0′0″	6.28′	STA. 93+03.65, 43.50′ LT.
3	2.00′	180°0′0″	6.28′	STA. 93+40.04, 43.50′ LT.
4	20.00′	50°17′28″	17.55′	STA. 93+53.88, 55.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-23)
US 250 AT STA. 92+63 & 94+91

ERI-250-0.00

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LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

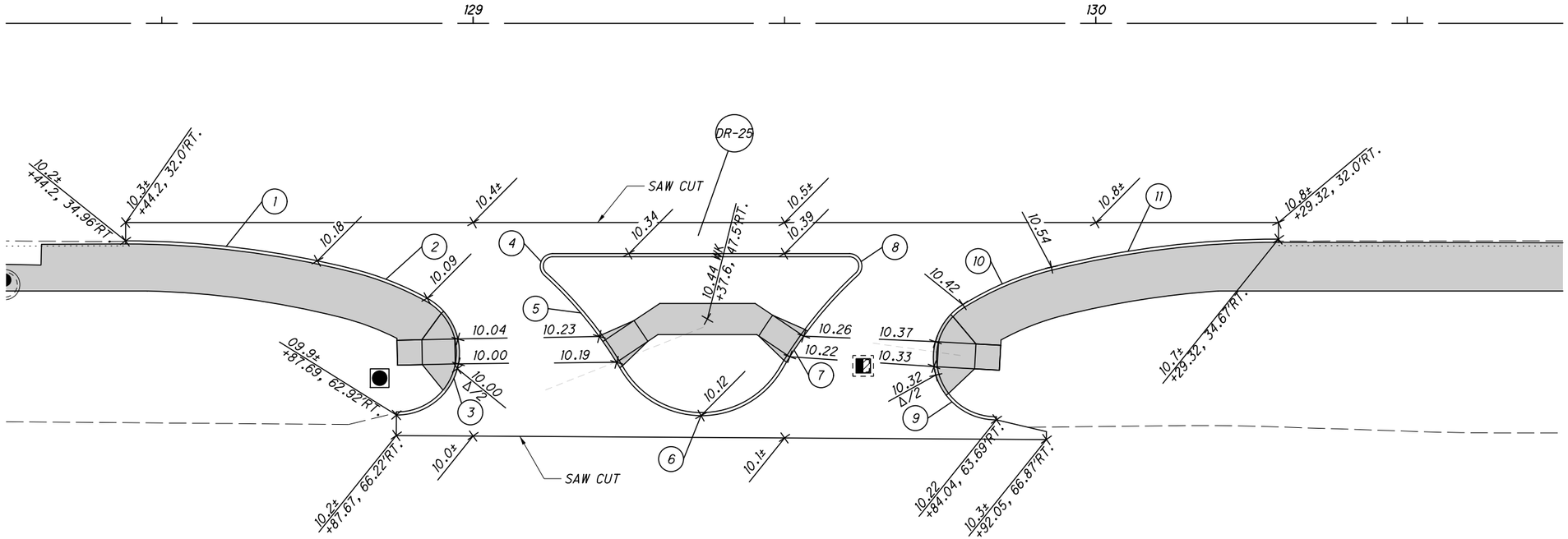
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	150.00′	14°04′12″	36.83′	STA. 128+44.20, 184.96′ RT.
2	50.00′	14°46′37″	12.90′	STA. 128+68.51, 87.96′ RT.
3	10.00′	151°50′26″	26.50′	STA. 128+87.81, 52.92′ RT.
4	2.00′	137°53′01″	4.81′	STA. 129+12.77, 39.00′ RT.
5	64.00′	17°31′24″	19.57′	STA. 128+68.51, 87.96′ RT.
6	15.00′	119°31′23″	31.29′	STA. 129+36.68, 48.03′ RT.
7	64.00′	17°23′33″	19.43′	STA. 130+05.01, 87.67′ RT.
8	2.00′	137°30′33″	4.80′	STA. 129+60.43, 39.00′ RT.
9	10.00′	148°54′07″	25.99′	STA. 129+83.90, 53.69′ RT.
10	50.00′	17°46′55″	15.52′	STA. 130+05.01, 87.67′ RT.
11	150.00′	14°04′12″	36.83′	STA. 130+29.32, 184.67′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-25)
US 250 AT STA. 129+37

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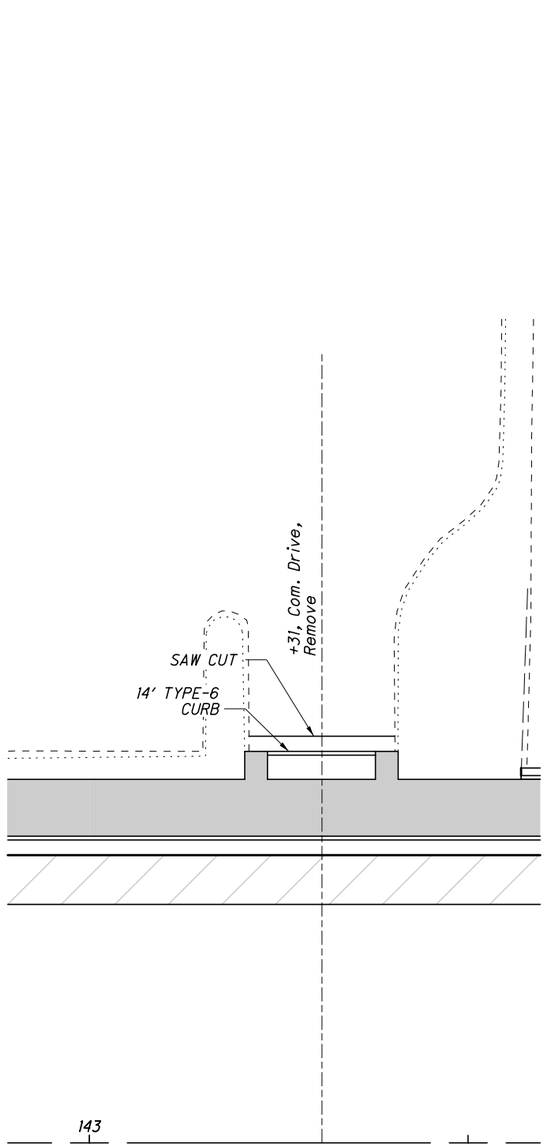

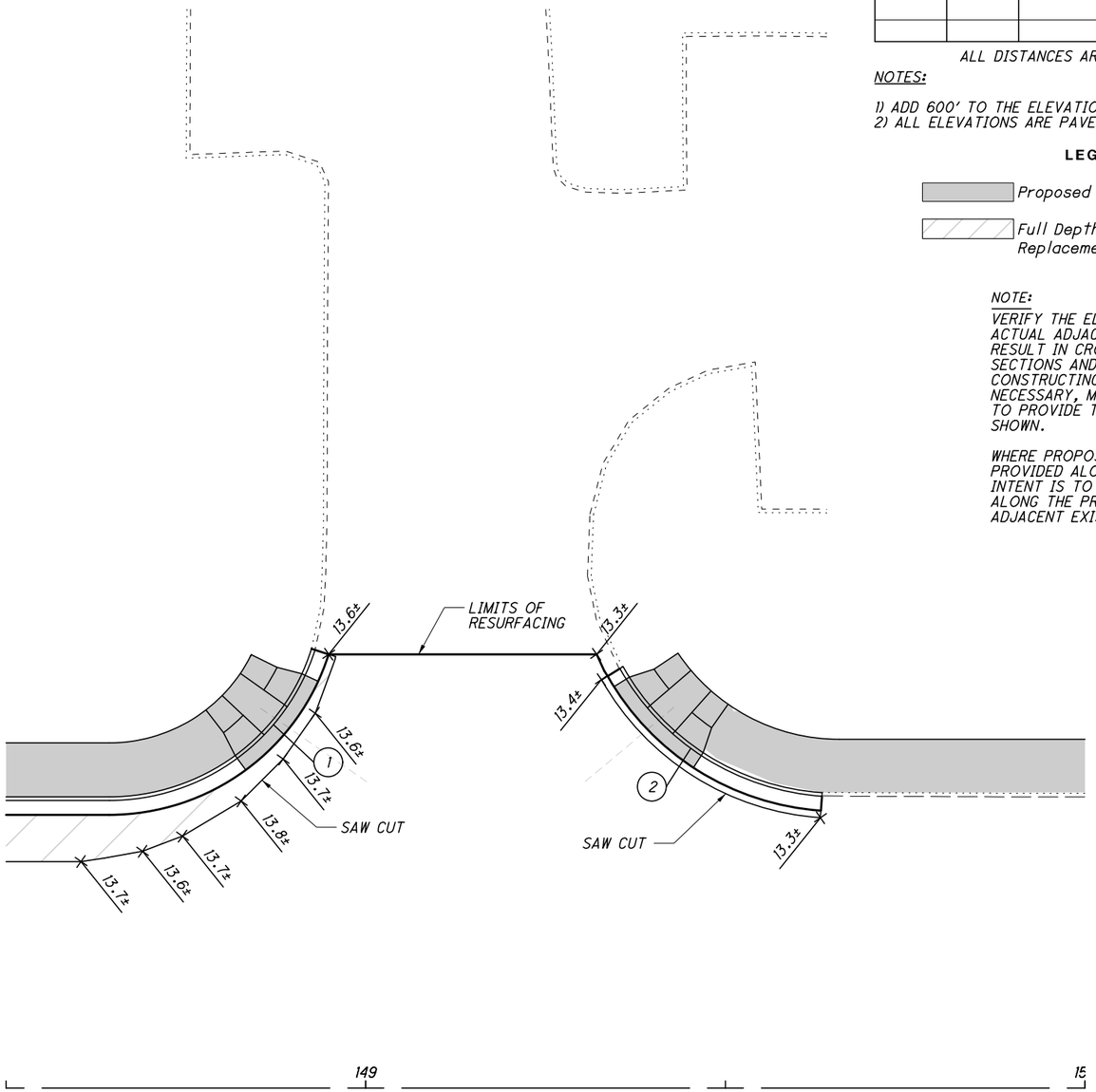

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	30.00′	72°23′07″	37.90′	STA. 148+64.36, 70.00′ LT.
2	35.00′	56°39′15″	34.61′	STA. 149+65.84, 75.50′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL
US 250 AT STA. 143+31 (DR-27) & STA. 149+15

ERI-250-0.00

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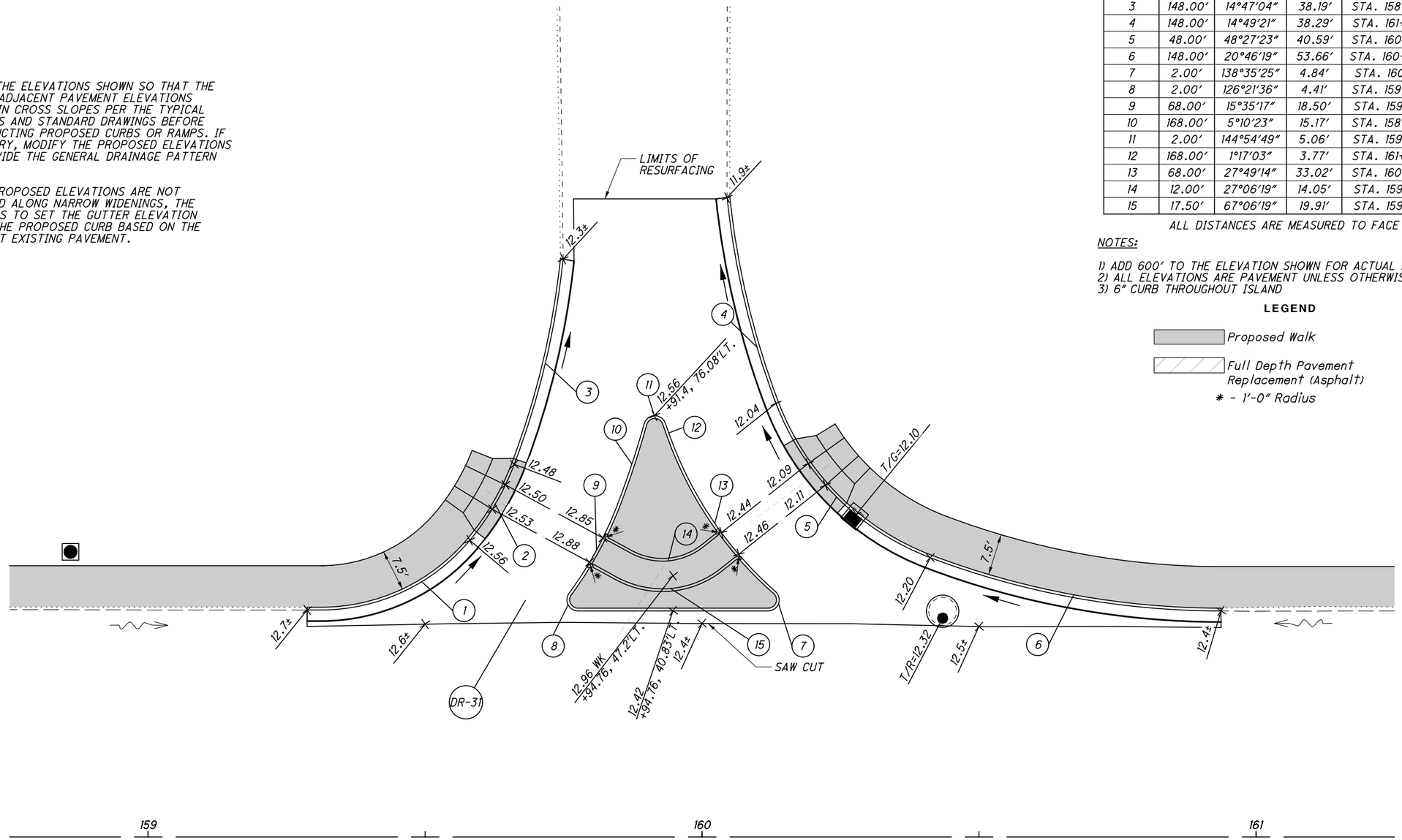
NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	35.00'	50°10'24"	30.65'	STA. 159+31.21, 76.00' LT.
2	48.00'	19°04'55"	15.99'	STA. 159+21.23, 84.33' LT.
3	148.00'	14°47'04"	38.19'	STA. 158+27.73, 119.80' LT.
4	148.00'	14°49'21"	38.29'	STA. 161+51.73, 130.80' LT.
5	48.00'	48°27'23"	40.59'	STA. 160+58.23, 95.33' LT.
6	148.00'	20°46'19"	53.66'	STA. 160+93.69, 188.83' LT.
7	2.00'	138°35'25"	4.84'	STA. 160+11.93, 42.83' LT.
8	2.00'	126°21'36"	4.41'	STA. 159+77.60, 42.83' LT.
9	68.00'	15°35'17"	18.50'	STA. 159+21.23, 84.33' LT.
10	168.00'	5°10'23"	15.17'	STA. 158+27.73, 119.80' LT.
11	2.00'	144°54'49"	5.06'	STA. 159+91.47, 74.08' LT.
12	168.00'	1°17'03"	3.77'	STA. 161+51.73, 130.80' LT.
13	68.00'	27°49'14"	33.02'	STA. 160+58.23, 95.33' LT.
14	12.00'	27°06'19"	14.05'	STA. 159+92.84, 61.82' LT.
15	17.50'	67°06'19"	19.91'	STA. 159+92.84, 61.82' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6" CURB THROUGHOUT ISLAND

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

* - 1'-0" Radius

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED

CHECKED

DRIVE DETAIL (DR-31)
US 250 AT STA. 159+90

ERI-250-0.00

329
677

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NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	35.00′	50°39′27″	30.94′	STA. 162+52.67, 76.09′ LT.
2	48.00′	18°18′05″	15.33′	STA. 162+42.58, 84.28′ LT.
3	5.00′	60°17′01″	5.26	STA. 162+83.43, 70.78′ LT.
4	5.00′	118°28′23″	10.34′	STA. 163+41.78, 74.78′ LT.
5	48.00′	40°45′19″	34.14′	STA. 163+79.58, 95.28′ LT.
6	148.00′	20°46′19″	53.66′	STA. 164+15.05, 188.78′ LT.
7	2.00′	138°35′25″	4.84′	STA. 163+33.28, 42.78′ LT.
8	2.00′	126°21′36″	4.41′	STA. 162+98.95, 42.78′ LT.
9	68.00′	15°35′17″	18.50′	STA. 162+42.58, 84.28′ LT.
10	168.00′	5°10′23″	15.17′	STA. 161+49.08, 119.75′ LT.
11	2.00′	144°54′49″	5.06′	STA. 163+12.82, 74.04′ LT.
12	168.00′	1°17′03″	3.77′	STA. 164+73.08, 130.75′ LT.
13	68.00′	27°49′14″	33.02′	STA. 163+79.58, 95.28′ LT.
14	5.00′	90°00′00″	7.85′	STA. 163+58.18, 74.78′ LT.
15	7.50′	67°06′19″	8.78′	STA. 163+14.66, 56.39′ LT.
16	12.50′	67°06′19″	14.64′	STA. 163+14.66, 56.39′ LT.

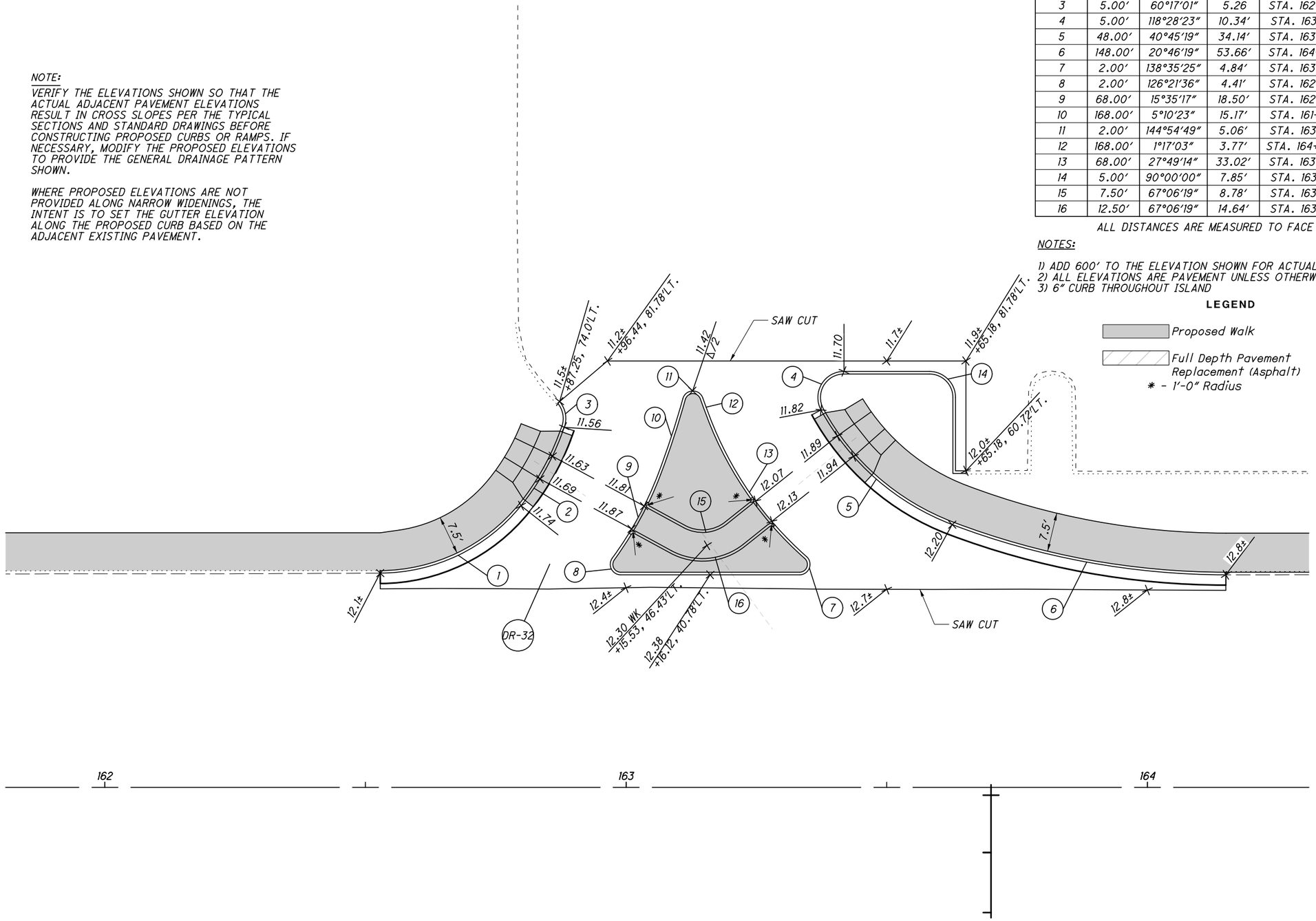
ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- * - 1′-0″ Radius



DRIVE DETAIL (DR-32)
US 250 AT STA. 163+13

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED
CHECKED

ERI-250-0.00

330
677

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NOTE:

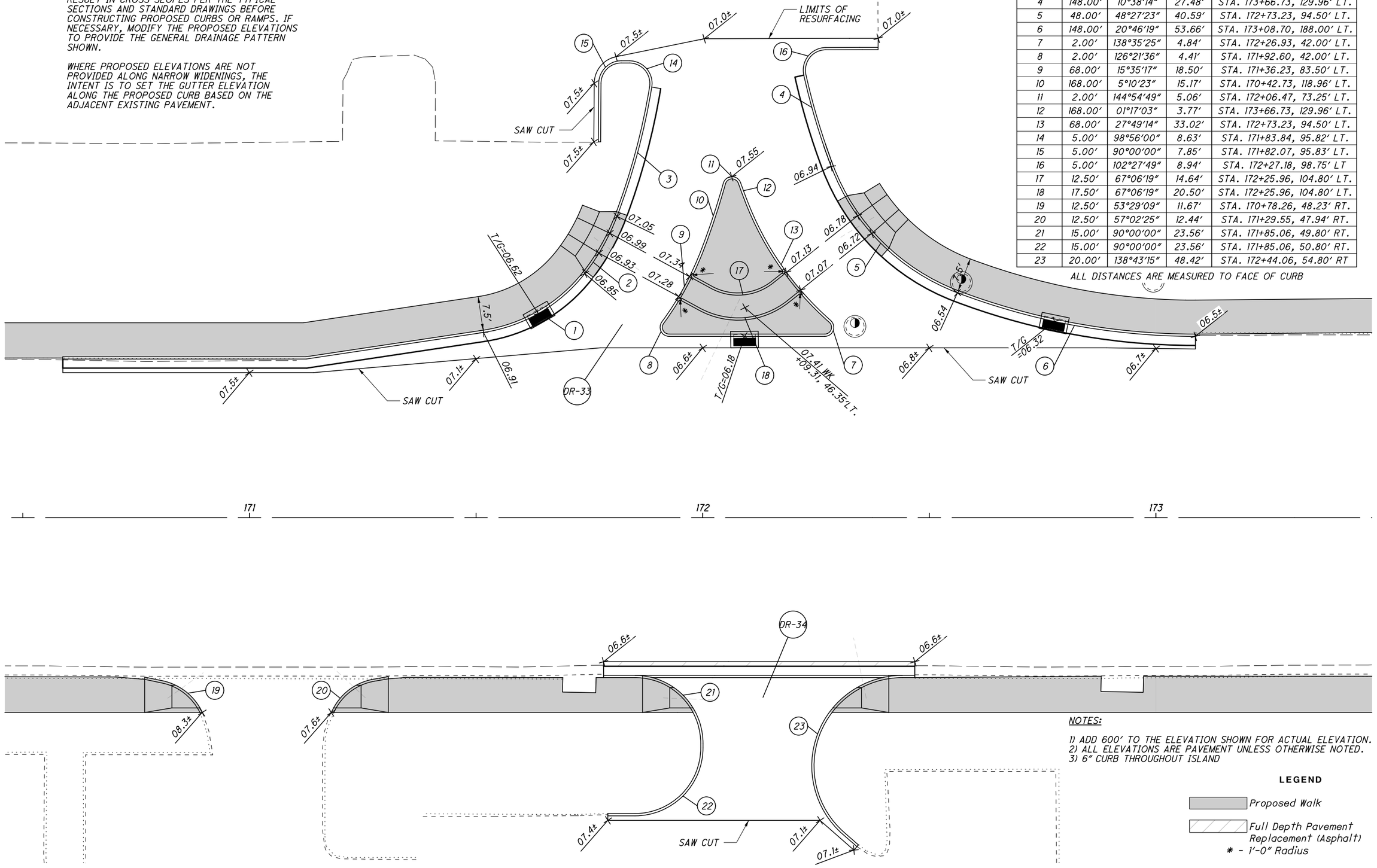
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	35.00′	43°21′29″	26.49′	STA. 171+46.46, 75.47′ LT.
2	48.00′	17°21′07″	14.54′	STA. 171+36.23, 83.50′ LT.
3	148.00′	11°27′27″	29.60′	STA. 170+42.73, 118.96′ LT.
4	148.00′	10°38′14″	27.48′	STA. 173+66.73, 129.96′ LT.
5	48.00′	48°27′23″	40.59′	STA. 172+73.23, 94.50′ LT.
6	148.00′	20°46′19″	53.66′	STA. 173+08.70, 188.00′ LT.
7	2.00′	138°35′25″	4.84′	STA. 172+26.93, 42.00′ LT.
8	2.00′	126°21′36″	4.41′	STA. 171+92.60, 42.00′ LT.
9	68.00′	15°35′17″	18.50′	STA. 171+36.23, 83.50′ LT.
10	168.00′	5°10′23″	15.17′	STA. 170+42.73, 118.96′ LT.
11	2.00′	144°54′49″	5.06′	STA. 172+06.47, 73.25′ LT.
12	168.00′	01°17′03″	3.77′	STA. 173+66.73, 129.96′ LT.
13	68.00′	27°49′14″	33.02′	STA. 172+73.23, 94.50′ LT.
14	5.00′	98°56′00″	8.63′	STA. 171+83.84, 95.82′ LT.
15	5.00′	90°00′00″	7.85′	STA. 171+82.07, 95.83′ LT.
16	5.00′	102°27′49″	8.94′	STA. 172+27.18, 98.75′ LT
17	12.50′	67°06′19″	14.64′	STA. 172+25.96, 104.80′ LT.
18	17.50′	67°06′19″	20.50′	STA. 172+25.96, 104.80′ LT.
19	12.50′	53°29′09″	11.67′	STA. 170+78.26, 48.23′ RT.
20	12.50′	57°02′25″	12.44′	STA. 171+29.55, 47.94′ RT.
21	15.00′	90°00′00″	23.56′	STA. 171+85.06, 49.80′ RT.
22	15.00′	90°00′00″	23.56′	STA. 171+85.06, 50.80′ RT.
23	20.00′	138°43′15″	48.42′	STA. 172+44.06, 54.80′ RT

ALL DISTANCES ARE MEASURED TO FACE OF CURB



NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

* - 1′-0″ Radius

HORIZONTAL SCALE IN FEET

CALCULATED

CHECKED

DRIVE DETAIL (DR-33 & DR-34)
US 250 AT STA. 172+05 & 172+12

ERI-250-0.00

331
677

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NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

* - 1'-0" Radius

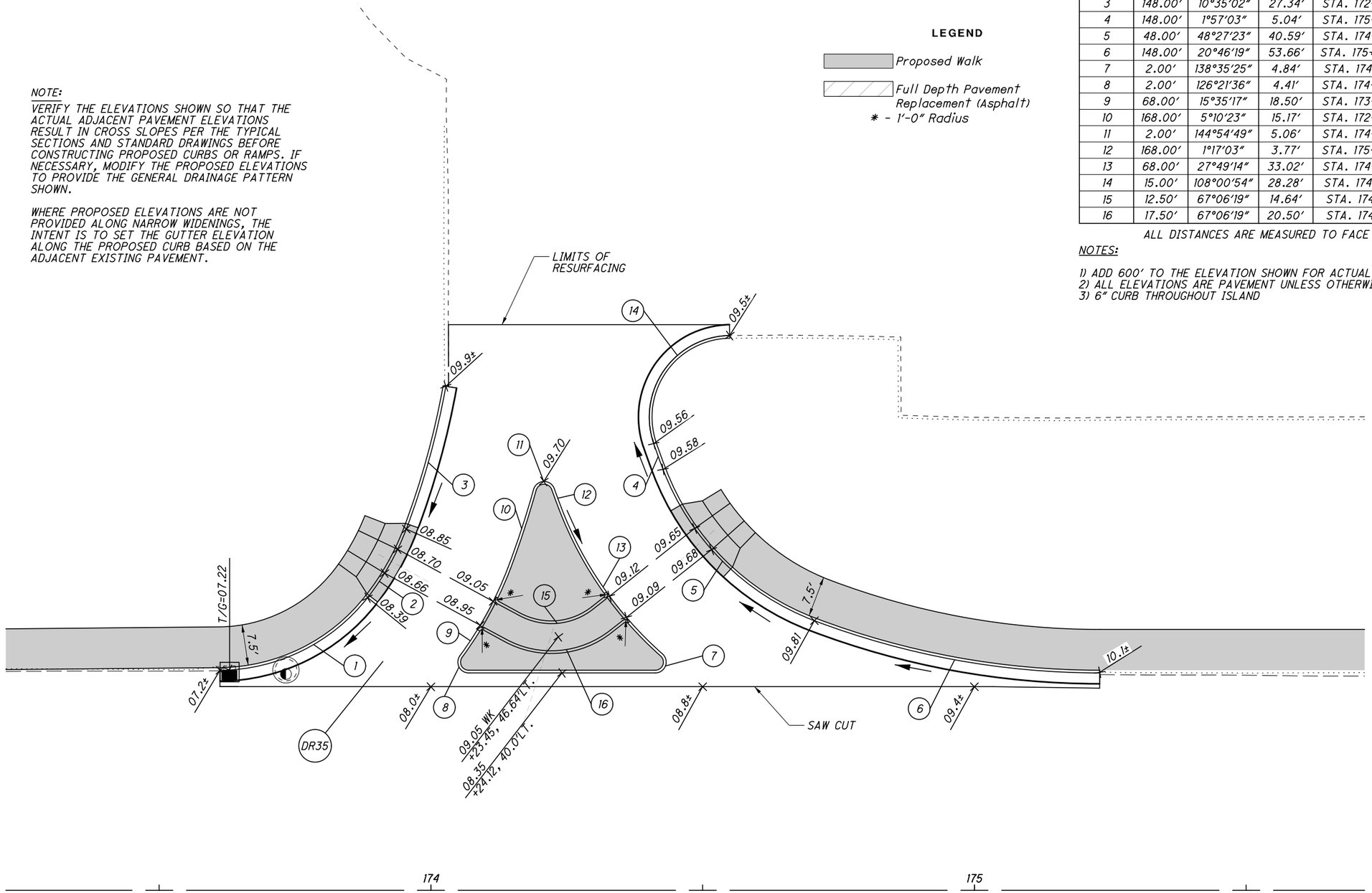
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	35.00'	51°14'44"	31.30'	STA. 173+60.82, 75.47' LT.
2	48.00'	17°21'07"	14.54'	STA. 173+50.59, 83.50' LT.
3	148.00'	10°35'02"	27.34'	STA. 172+57.09, 118.96' LT.
4	148.00'	1°57'03"	5.04'	STA. 175+81.09, 129.96' LT.
5	48.00'	48°27'23"	40.59'	STA. 174+87.59, 94.50' LT.
6	148.00'	20°46'19"	53.66'	STA. 175+23.05, 188.00' LT.
7	2.00'	138°35'25"	4.84'	STA. 174+41.29, 42.00' LT.
8	2.00'	126°21'36"	4.41'	STA. 174+06.96, 42.00' LT.
9	68.00'	15°35'17"	18.50'	STA. 173+50.59, 83.50' LT.
10	168.00'	5°10'23"	15.17'	STA. 172+57.09, 118.96' LT.
11	2.00'	144°54'49"	5.06'	STA. 174+20.83, 73.25' LT.
12	168.00'	1°17'03"	3.77'	STA. 175+81.09, 129.96' LT.
13	68.00'	27°49'14"	33.02'	STA. 174+87.59, 94.50' LT.
14	15.00'	108°00'54"	28.28'	STA. 174+41.29, 42.00' LT.
15	12.50'	67°06'19"	14.64'	STA. 174+22.15, 61.59' LT.
16	17.50'	67°06'19"	20.50'	STA. 174+22.15, 61.59' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6" CURB THROUGHOUT ISLAND



DRIVE DETAIL (DR-35)
US 250 AT STA. 174+21

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED

CHECKED

ERI-250-0.00

332
677

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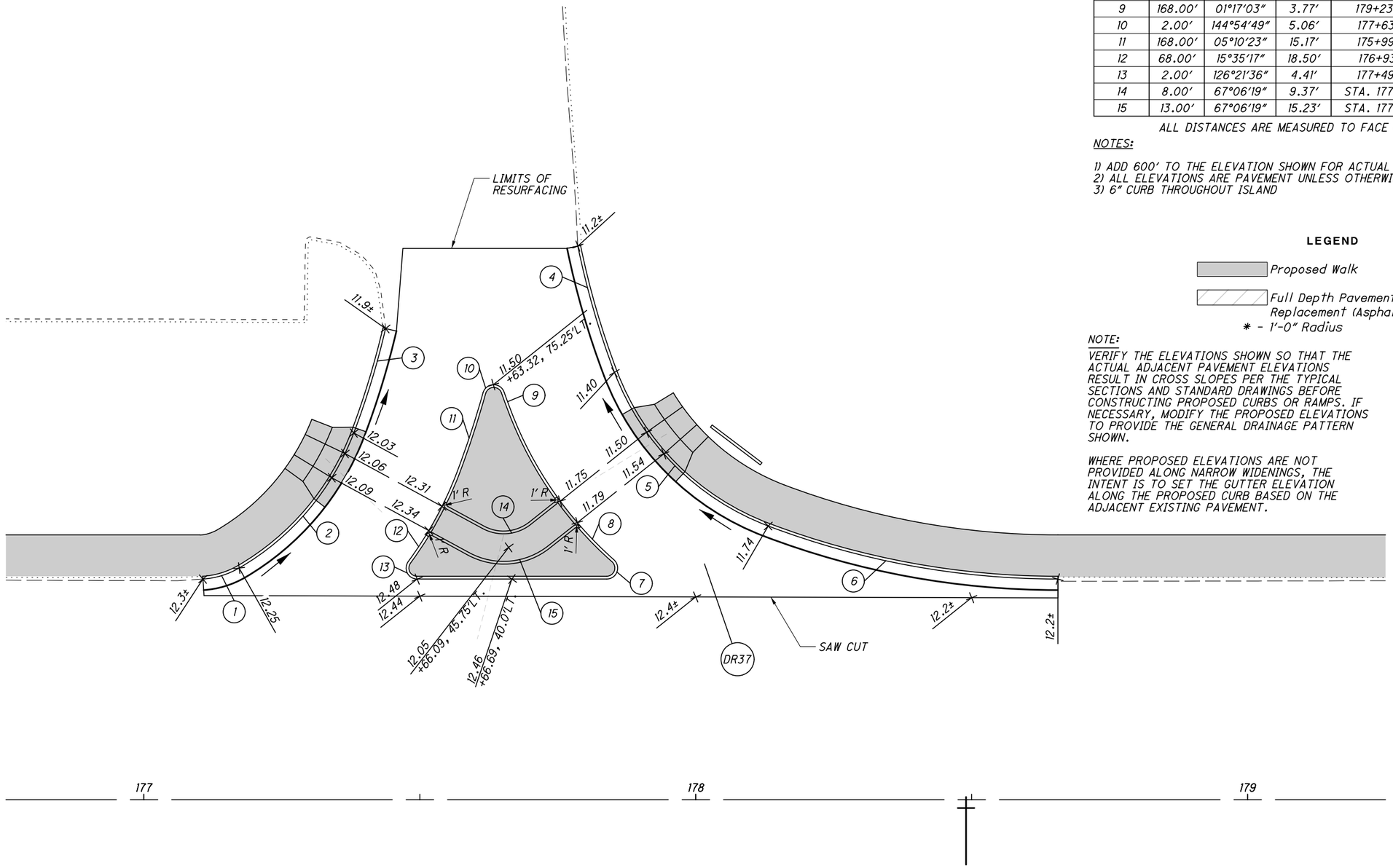

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	15.00'	26°27'58"	6.93'	176+93.15, 83.50' LT.
2	48.00'	39°04'18"	32.73'	176+93.15, 83.50' LT.
3	148.00'	07°40'21"	19.82'	175+99.65, 118.96' LT.
4	148.00'	09°14'01"	23.85'	179+23.65, 129.96' LT.
5	48.00'	48°27'23"	40.59'	178+30.15, 94.50' LT.
6	148.00'	20°46'19"	53.66'	178+36.94, 39.61' LT.
7	2.00'	138°35'25"	4.84'	177+83.85, 42.00' LT.
8	68.00'	27°49'14"	33.02'	178+30.15, 94.50' LT.
9	168.00'	01°17'03"	3.77'	179+23.65, 129.96' LT.
10	2.00'	144°54'49"	5.06'	177+63.39, 73.25' LT.
11	168.00'	05°10'23"	15.17'	175+99.65, 118.96' LT.
12	68.00'	15°35'17"	18.50'	176+93.15, 83.50' LT.
13	2.00'	126°21'36"	4.41'	177+49.52, 42.00' LT.
14	8.00'	67°06'19"	9.37'	STA. 177+65.18, 56.21' LT.
15	13.00'	67°06'19"	15.23'	STA. 177+65.18, 56.21' LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6" CURB THROUGHOUT ISLAND

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)
* - 1'-0" Radius

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-37)
US 250 AT STA. 177+63

ERI-250-0.00

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677

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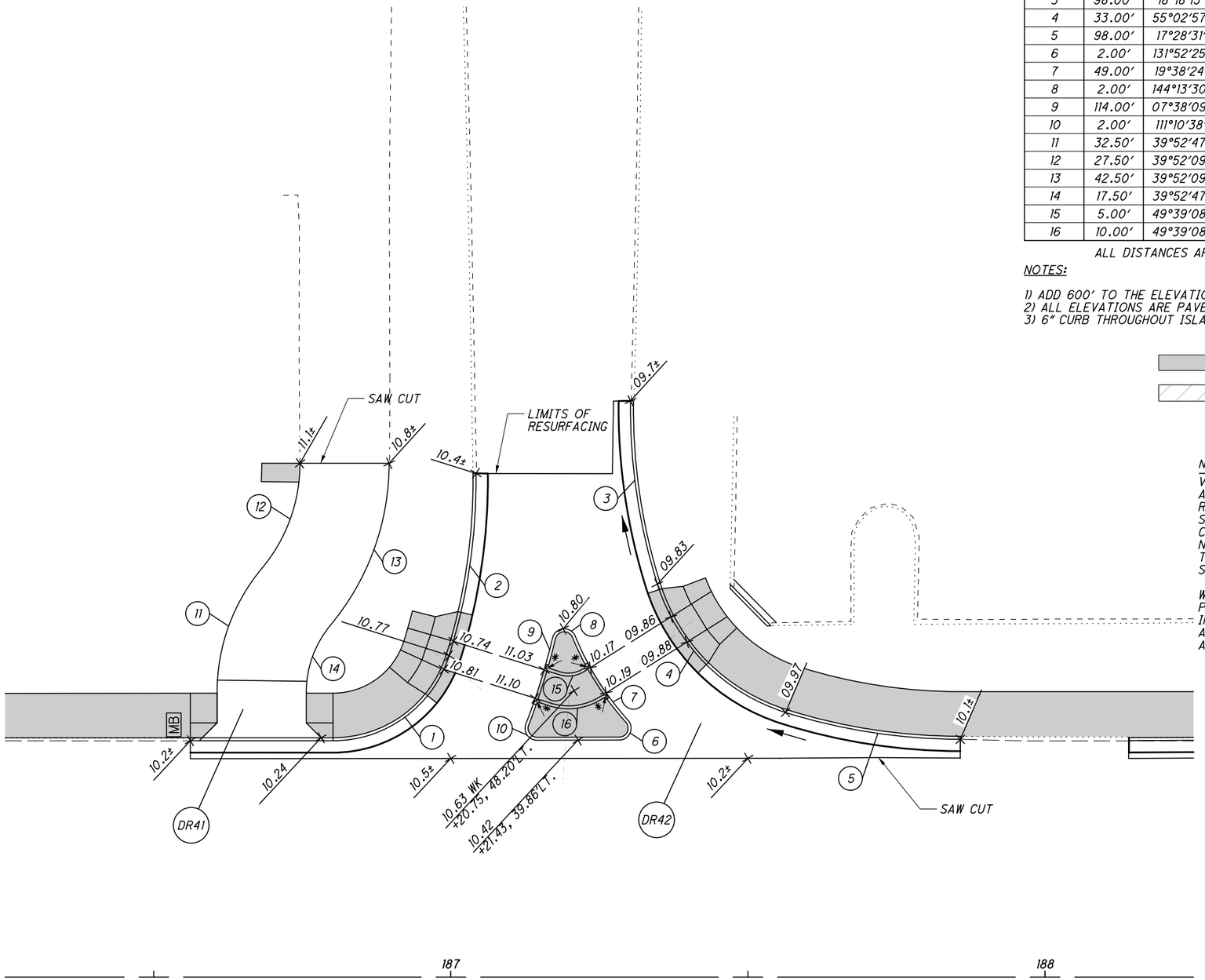

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	20.50′	72°31′09″	25.95′	STA. 186+80.17, 60.25′ LT
2	98.00′	18°11′08″	31.11′	STA. 186+06.25, 83.52′ LT.
3	98.00′	18°18′15″	31.11′	STA. 188+28.25, 95.52′ LT.
4	33.00′	55°02′57″	31.71′	STA. 187+66.25, 76.00′ LT.
5	98.00′	17°28′31″	29.38′	STA. 187+85.77, 138.00′ LT.
6	2.00′	131°52′25″	4.60′	STA. 187+28.35, 41.88′ LT.
7	49.00′	19°38′24″	16.80′	STA. 187+66.25, 76.00′ LT.
8	2.00′	144°13′30″	5.03′	STA. 187+19.08, 56.60′ LT.
9	114.00′	07°38′09″	15.19′	STA. 186+06.25, 83.52′ LT.
10	2.00′	111°10′38″	3.88′	STA. 187+14.50, 41.85′ LT.
11	32.50′	39°52′47″	22.62′	STA. 186+93.18, 47.96′ LT.
12	27.50′	39°52′09″	19.14′	STA. 186+47.13, 86.43′ LT.
13	42.50′	39°52′09″	29.57′	STA. 186+47.13, 86.43′ LT.
14	17.50′	39°52′47″	12.18′	STA. 186+93.18, 47.96′ LT.
15	5.00′	49°39′08″	4.33′	STA. 187+19.79, 55.63′ LT.
16	10.00′	49°39′08″	8.40′	STA. 187+19.79, 55.63′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

* - 1′-0″ Radius

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL
US 250 AT STA. 186+82 & STA. 187+17
TRAIL (DR-41 & DR-42

ERI-250-0.00

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NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	16.62′	180°00′00″	52.23′	STA. 190+42.85, 56.63′ LT
2	16.63′	180°00′00″	52.23′	STA. 191+00.10, 56.63′ LT.
3	15.00′	89°57′47″	23.55′	STA. 188+60.31, 55.00′ LT.
4	5.00′	89°39′17″	7.82′	STA. 188+70.31, 55.57′ LT.
5	5.00′	90°02′07″	7.86′	STA. 189+12.32, 55.49′ LT.
6	15.00′	90°02′13″	23.57′	STA. 189+22.31, 55.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

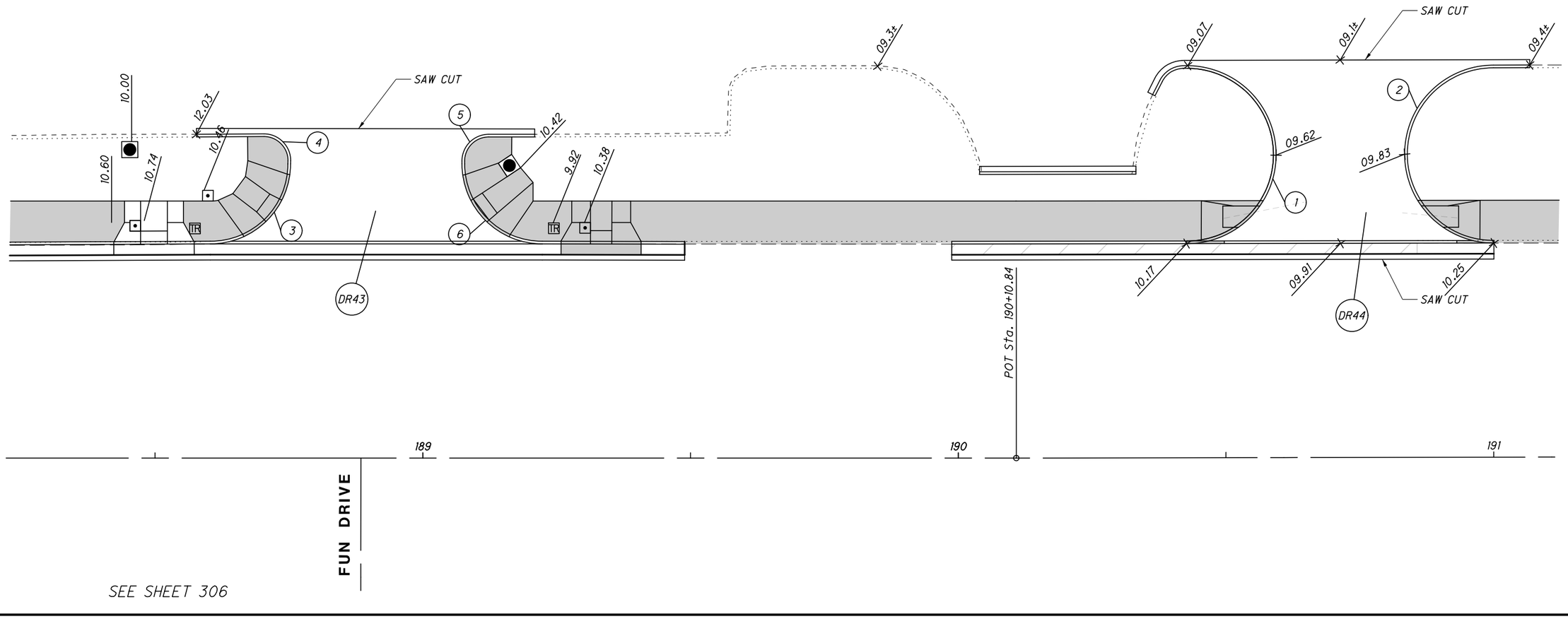
1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

* - 1′-0″ Radius



SEE SHEET 306

DRIVE DETAIL (DR-43 & DR-44)
US 250 AT STA. 188+91 & STA. 190+71

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

ERI-250-0.00

335
677

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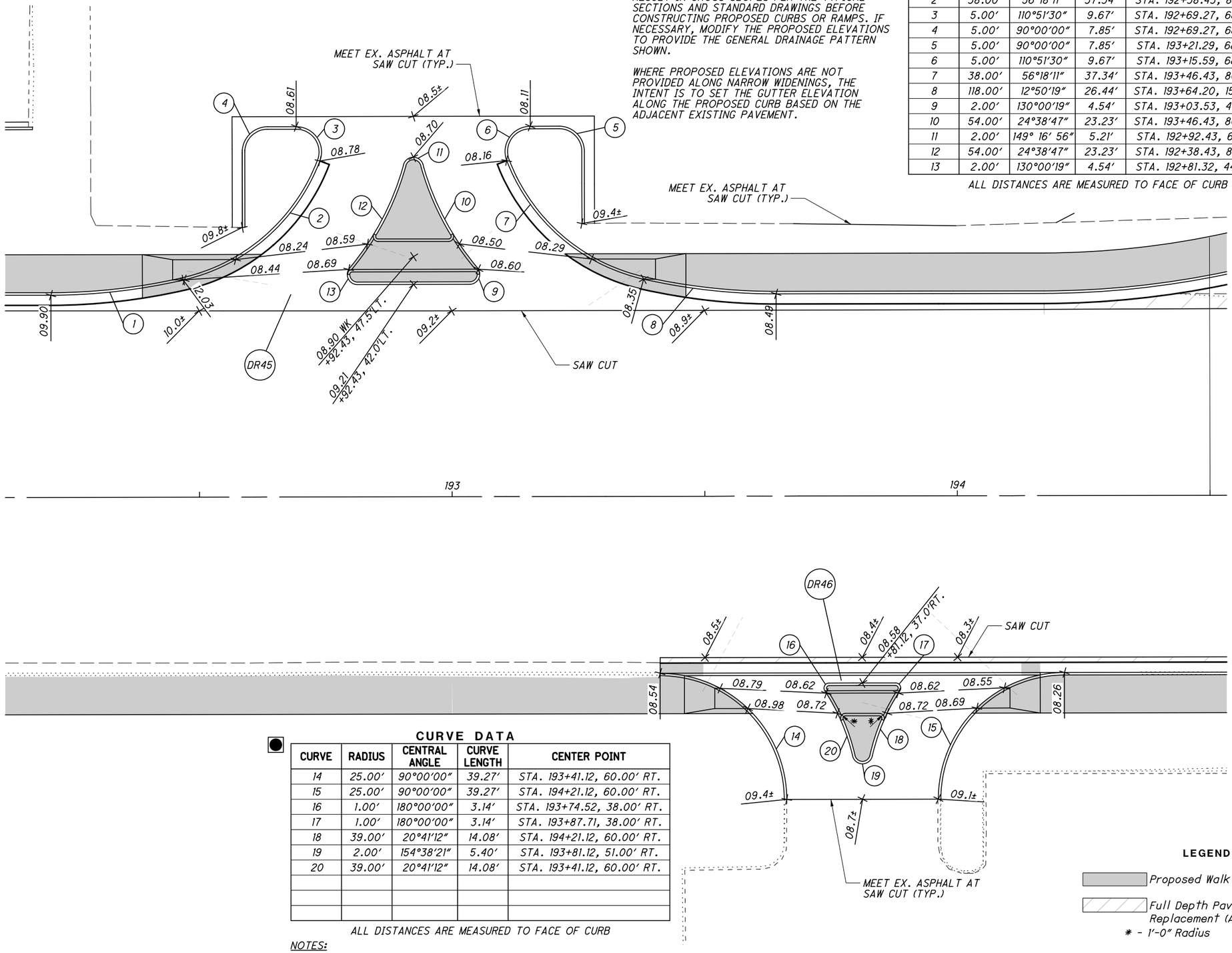
NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	118.00′	12°50′19″	26.44′	STA. 192+20.65, 158.00′ LT
2	38.00′	56°18′11″	37.34′	STA. 192+38.43, 80.00′ LT
3	5.00′	110°51′30″	9.67′	STA. 192+69.27, 68.25′ LT.
4	5.00′	90°00′00″	7.85′	STA. 192+69.27, 68.25′ LT.
5	5.00′	90°00′00″	7.85′	STA. 193+21.29, 68.25′ LT.
6	5.00′	110°51′30″	9.67′	STA. 193+15.59, 68.25′ LT.
7	38.00′	56°18′11″	37.34′	STA. 193+46.43, 80.00′ LT.
8	118.00′	12°50′19″	26.44′	STA. 193+64.20, 158.00′ LT
9	2.00′	130°00′19″	4.54′	STA. 193+03.53, 44.00′ LT.
10	54.00′	24°38′47″	23.23′	STA. 193+46.43, 80.00′ LT.
11	2.00′	149° 16′ 56″	5.21′	STA. 192+92.43, 65.17′ LT.
12	54.00′	24°38′47″	23.23′	STA. 192+38.43, 80.00′ LT
13	2.00′	130°00′19″	4.54′	STA. 192+81.32, 44.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB



CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
14	25.00′	90°00′00″	39.27′	STA. 193+41.12, 60.00′ RT.
15	25.00′	90°00′00″	39.27′	STA. 194+21.12, 60.00′ RT.
16	1.00′	180°00′00″	3.14′	STA. 193+74.52, 38.00′ RT.
17	1.00′	180°00′00″	3.14′	STA. 193+87.71, 38.00′ RT.
18	39.00′	20°41′12″	14.08′	STA. 194+21.12, 60.00′ RT.
19	2.00′	154°38′21″	5.40′	STA. 193+81.12, 51.00′ RT.
20	39.00′	20°41′12″	14.08′	STA. 193+41.12, 60.00′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.
3) 6″ CURB THROUGHOUT ISLAND

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- * - 1′-0″ Radius

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-45 & DR-46)
US 250 AT STA. 192+92 & STA. 193+81

ERI-250-0.00

336
677

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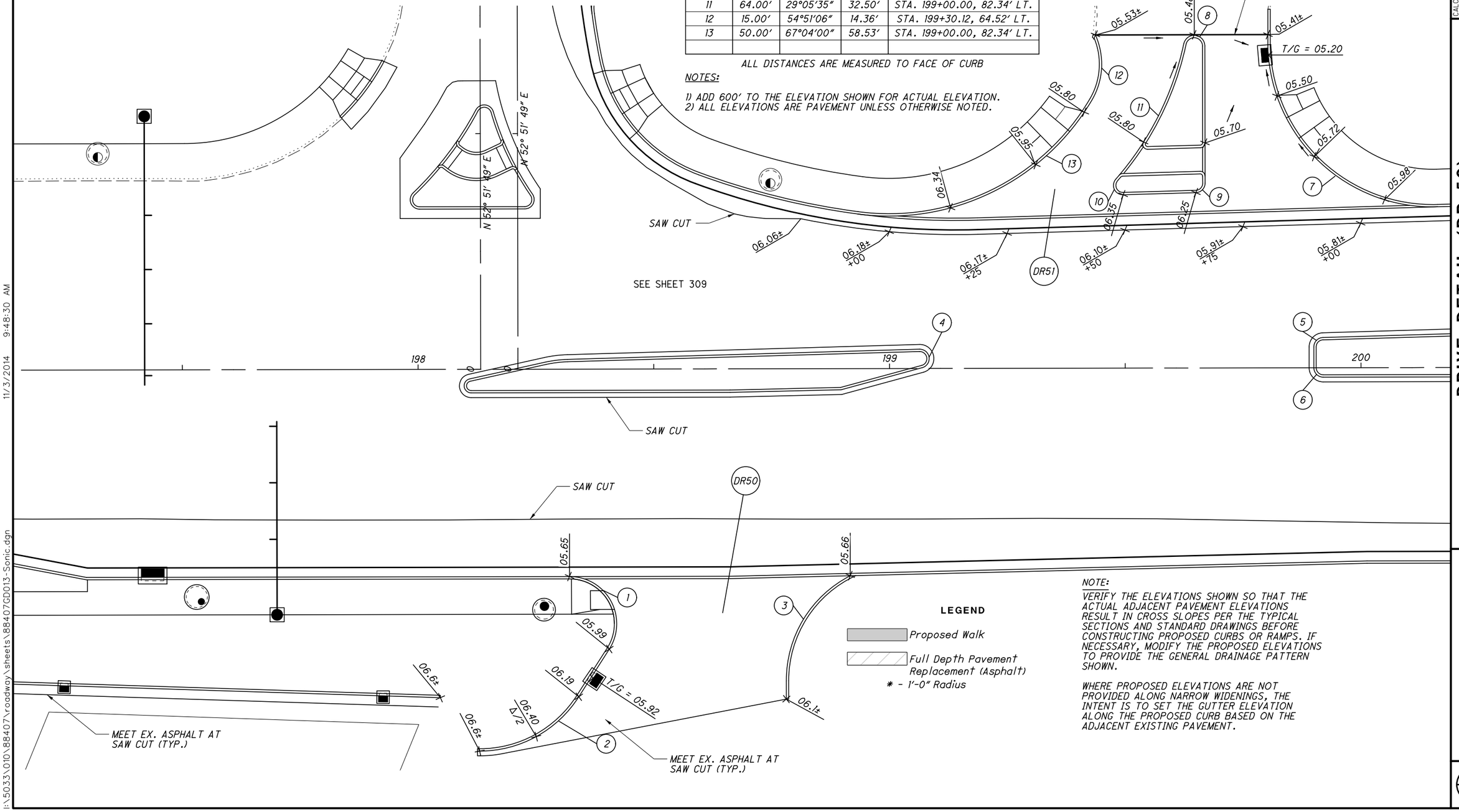
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	10.00′	122°41′10″	21.41′	STA. 198+32.04, 54.00′ RT.
2	25.00′	57°18′50″	25.01′	STA. 198+12.92, 56.01′ RT.
3	25.00′	62°53′15″	27.44′	STA. 199+02.98, 66.19′ RT.
4	2.00′	166°27′51″	5.81′	STA. 199+06.42, 2.10′ LT.
5	2.00′	88°26′43″	3.09′	STA. 199+92.00, 4.42′ LT.
6	2.00′	90°00′00″	3.14′	STA. 199+92.00, ℄
7	35.00′	89°30′43″	54.68′	STA. 200+15.37, 69.07′ LT.
8	2.25′	167°53′30″	6.59′	STA. 199+64.75, 68.33′ LT.
9	2.00′	88°26′39″	3.09′	STA. 199+65.00, 39.20′ LT.
10	2.00′	132°51′52″	4.64′	STA. 199+49.58, 38.78′ LT.
11	64.00′	29°05′35″	32.50′	STA. 199+00.00, 82.34′ LT.
12	15.00′	54°51′06″	14.36′	STA. 199+30.12, 64.52′ LT.
13	50.00′	67°04′00″	58.53′	STA. 199+00.00, 82.34′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- * - 1′-0″ Radius

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-50)
US 250 AT STA. 198+62

ERI-250-0.00

337
677

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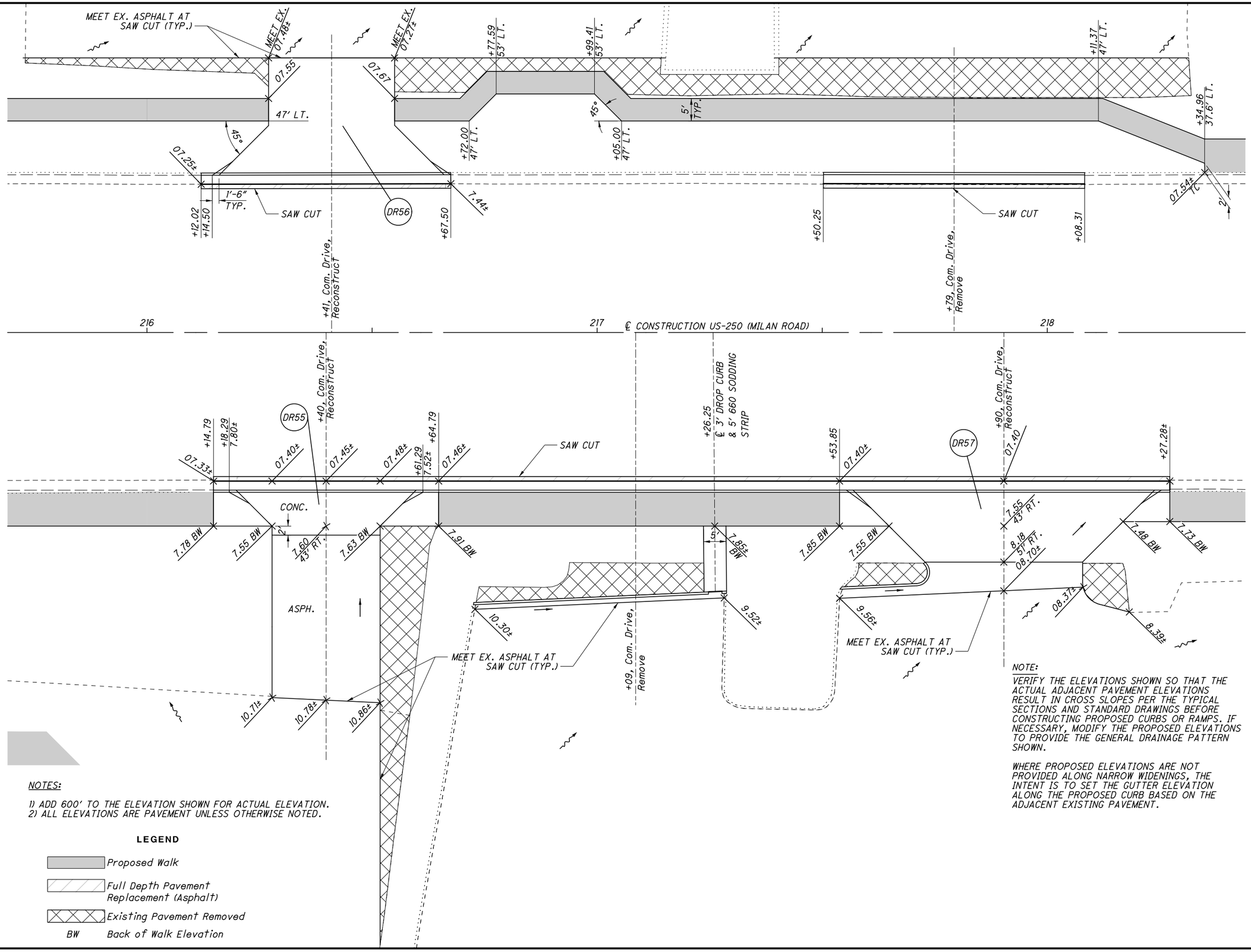

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Existing Pavement Removed
- BW — Back of Walk Elevation

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED
CHECKED

DRIVE DETAIL (DR-55 & DR-56 & DR-57)
US250 AT STA. 216+40, STA. 217+79, STA. 217+90

ERI-250-0.00

338
677

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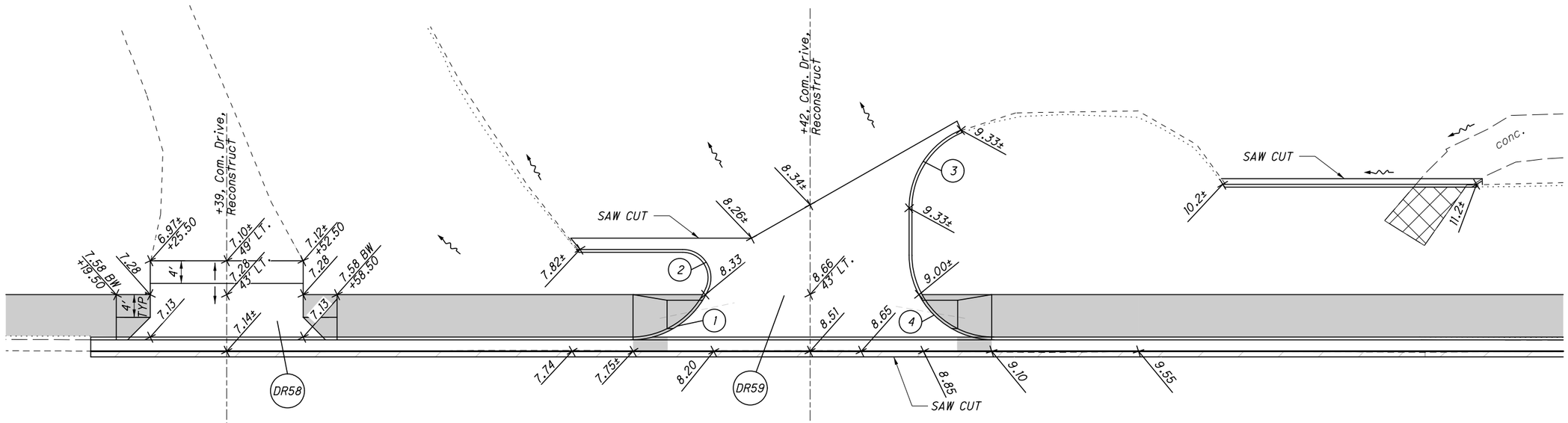

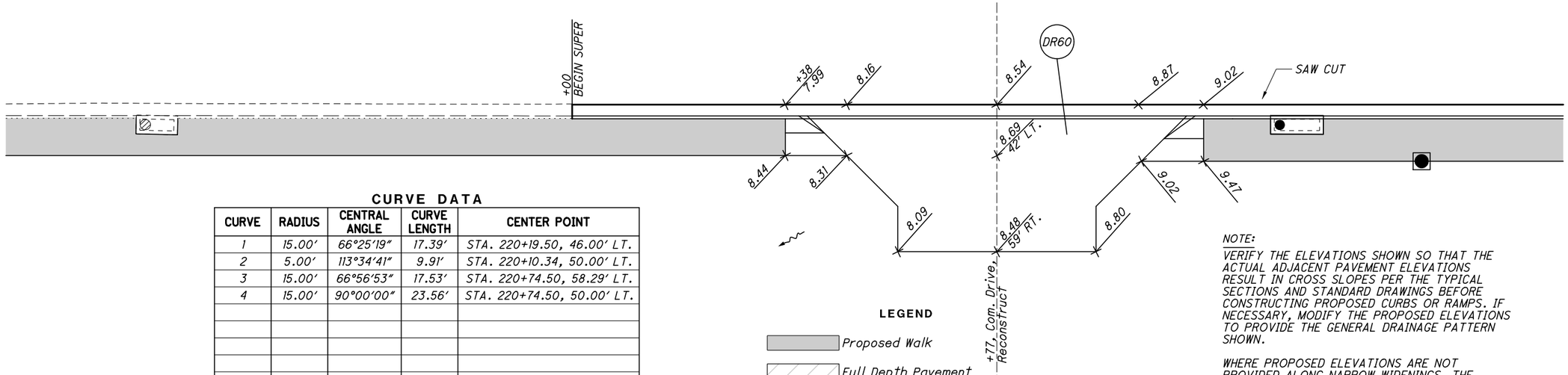

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	15.00′	66°25′19″	17.39′	STA. 220+19.50, 46.00′ LT.
2	5.00′	113°34′41″	9.91′	STA. 220+10.34, 50.00′ LT.
3	15.00′	66°56′53″	17.53′	STA. 220+74.50, 58.29′ LT.
4	15.00′	90°00′00″	23.56′	STA. 220+74.50, 50.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Existing Pavement Removed
- BW — Back of Walk Elevation

NOTE:
VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-58 & DR-59 & DR-60)
US 250 AT STA. 219+39 & 220+42 & 220+77

ERI-250-0.00

339
677

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LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

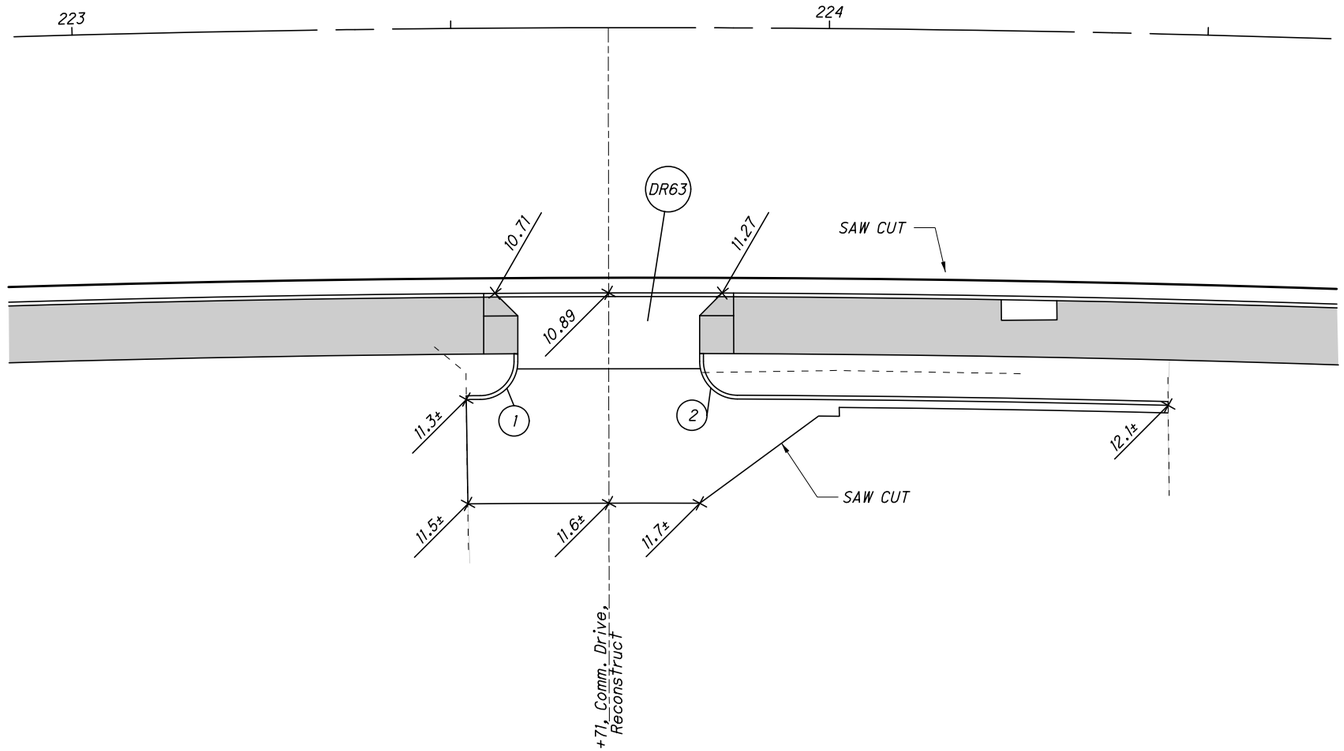
WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	5.00'	89°39'17"	7.82'	STA. 223+53.54, 44.00' RT.
2	5.00'	89°39'17"	7.82'	STA. 223+88.07, 44.00' RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600' TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-63)
US 250 AT STA. 223+71

ERI-250-0.00

340
677

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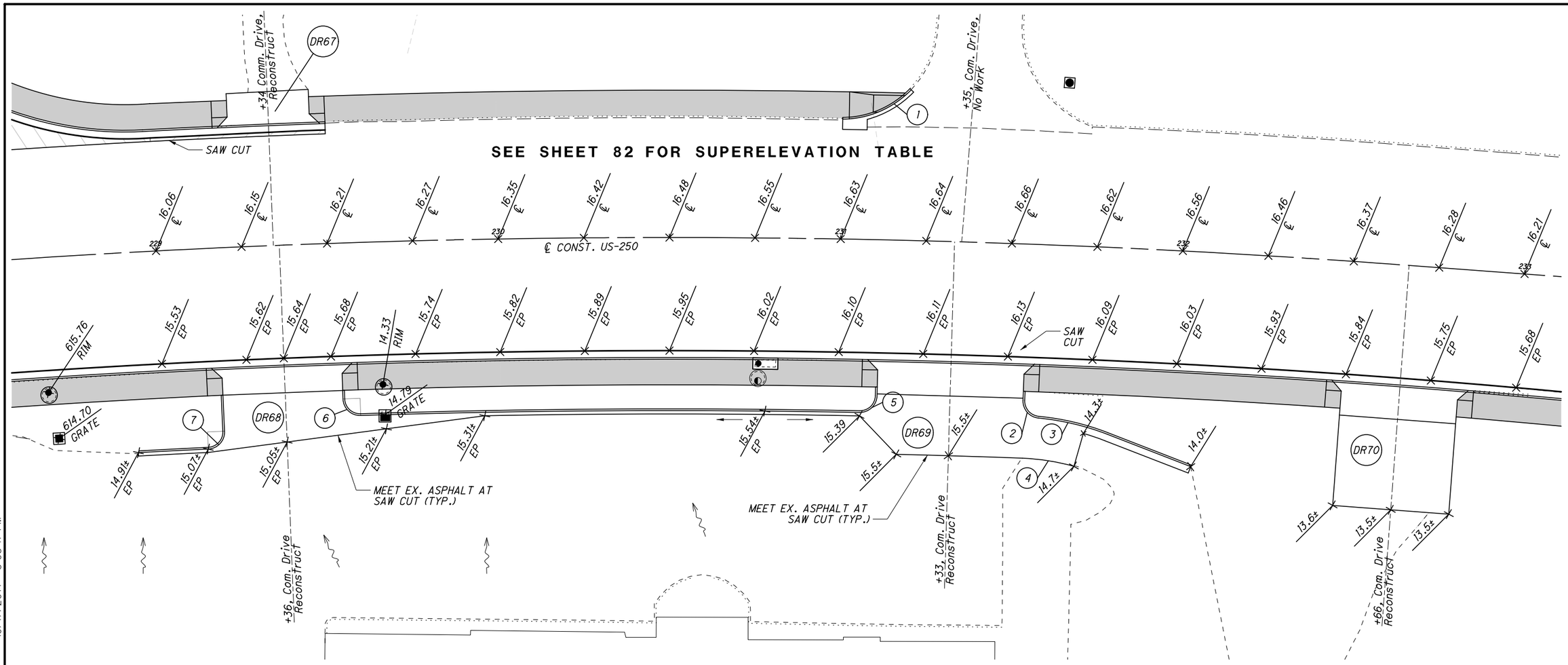

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)
- Existing Pavement Removed

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	28.17′	45°26′07″	22.34′	STA. 230+99.29, 63.14′ LT.
2	5.00′	86°43′41″	7.57′	STA. 231+60.03, 45.63′ RT.
3	75.00′	15°50′22″	20.73′	STA. 231+55.40, 125.50′ RT.
4	63.00′	13°52′07″	15.25′	STA. 231+55.40, 125.50′ RT.
5	5.00′	89°53′54″	7.85′	STA. 231+06.53, 45.50′ RT.
6	5.00′	89°55′36″	7.85′	STA. 229+58.19, 45.50′ RT.
7	5.00′	89°53′53″	7.85′	STA. 229+12.49, 53.50′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 7.5 15 30

CALCULATED | CHECKED

DRIVE DETAIL (DR-67 TO DR-70)
US 250 AT STA. 229+34 TO 232+66

ERI-250-0.00

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NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

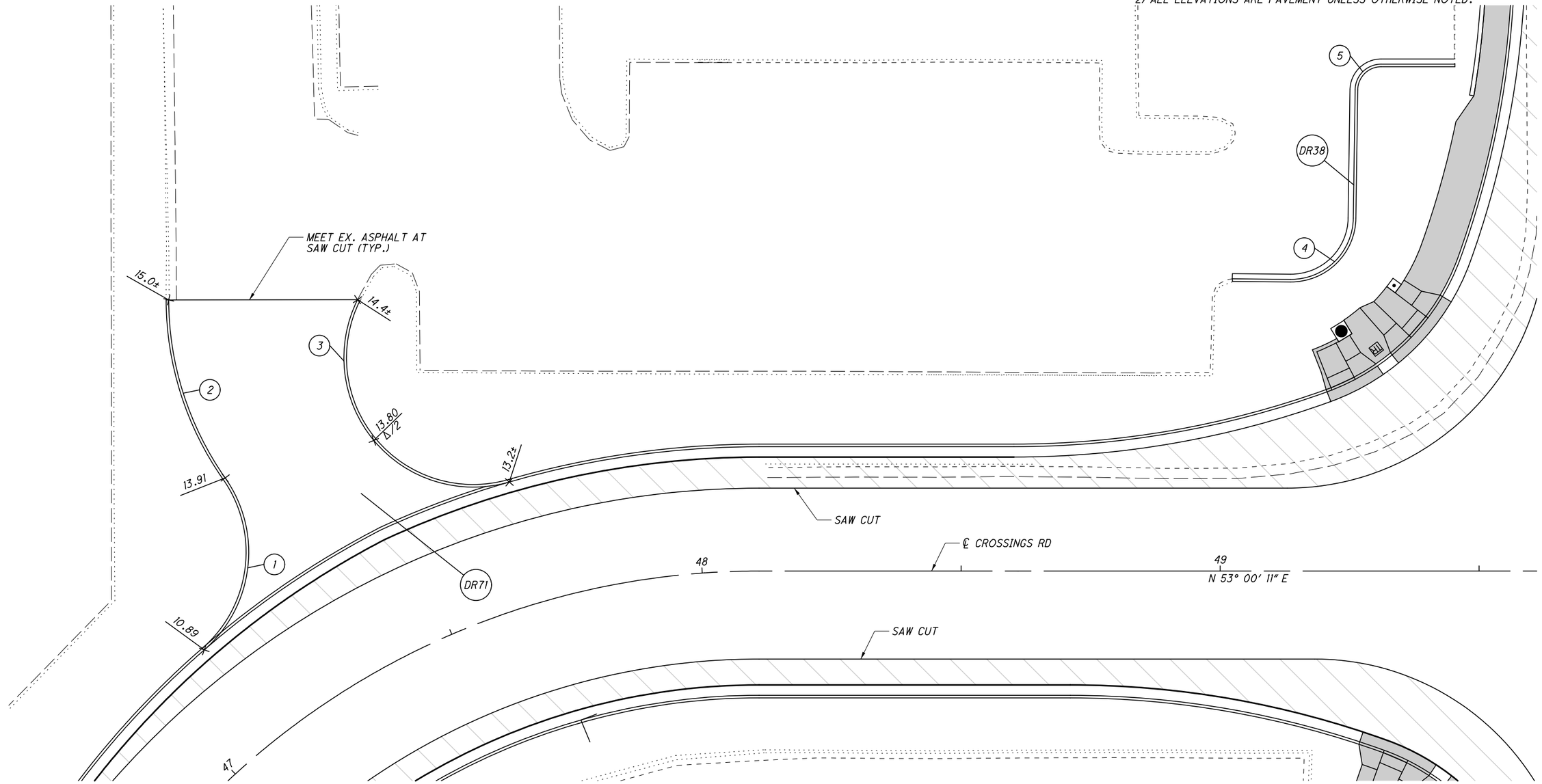
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	25.00′	84°01′39″	36.66′	STA. 47+09.38, 47.11′ LT.
2	60.00′	34°58′14″	36.62′	STA. 47+71.90, 59.53′ LT.
3	25.00′	132°42′23″	57.90′	STA. 47+68.85, 48.97′ LT.
4	12.00′	89°46′01″	18.80′	STA. 49+13.67, 68.37′ LT.
5	5.00′	89°10′40″	7.78′	STA. 49+30.99, 92.93′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-71)
CROSSINGS RD AT STA. 47+39

ERI-250-0.00

342
677

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LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

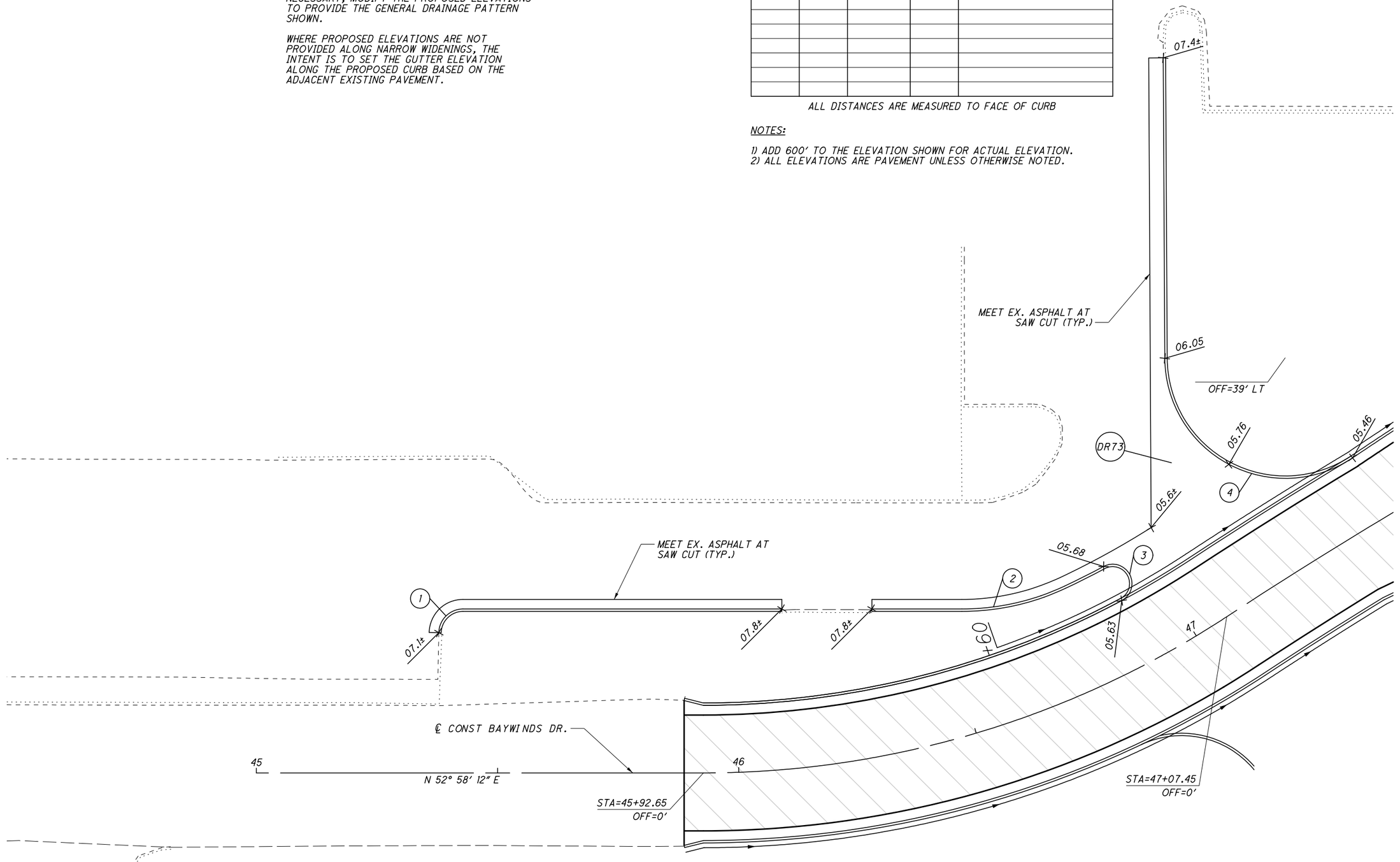
CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	5.00′	88°49′47″	7.75′	STA. 45+42.81, 28.96′ LT.
2	50.00′	25°09′58″	21.96′	STA. 46+79.62, 72.00′ LT.
3	4.00′	180°00′00″	12.57′	STA. 46+89.83, 18.00′ LT.
4	25.00′	123°33′41″	53.91′	STA. 47+45.56, 39.00′ LT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED

CHECKED

DRIVE DETAIL (DR-73)
BAY WINDS DR. AT 47+09

ERI-250-0.00

343
677

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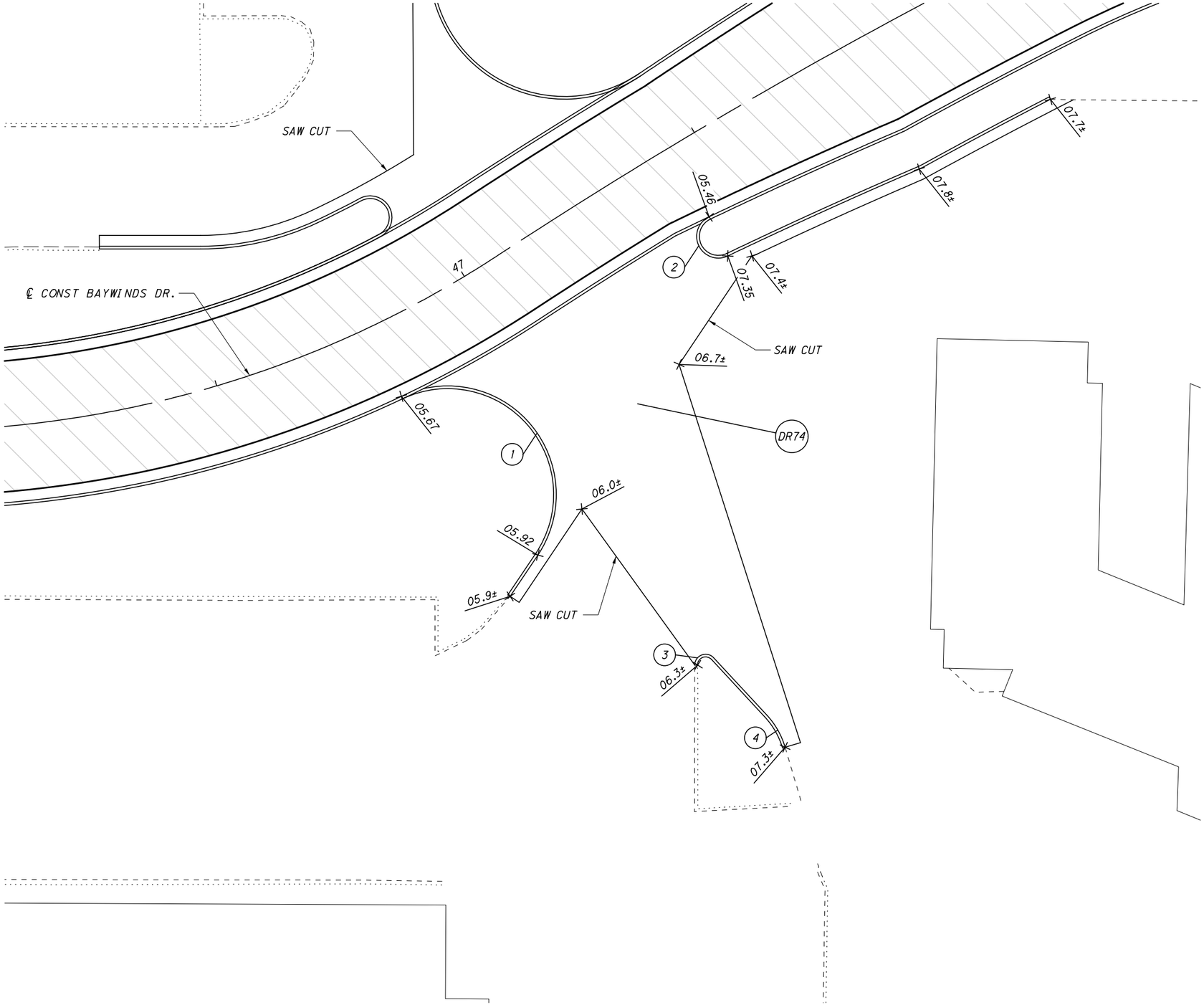

CURVE DATA

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	20.00′	136° 55′ 0″	47.79′	STA. 46+80.05, 34.00′ RT.
2	4.00′	180° 0′ 0″	12.57′	STA. 47+43.89, 18.68′ RT.
3	2.00′	137° 2′ 5″	4.78′	STA. 47+00.81, 84.25′ RT.
4	15.00′	26° 21′ 47″	6.90′	STA. 46+94.28, 101.12′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

LEGEND

Proposed Walk

Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-74)
BAY WINDS DR. AT 47+17

ERI-250-0.00

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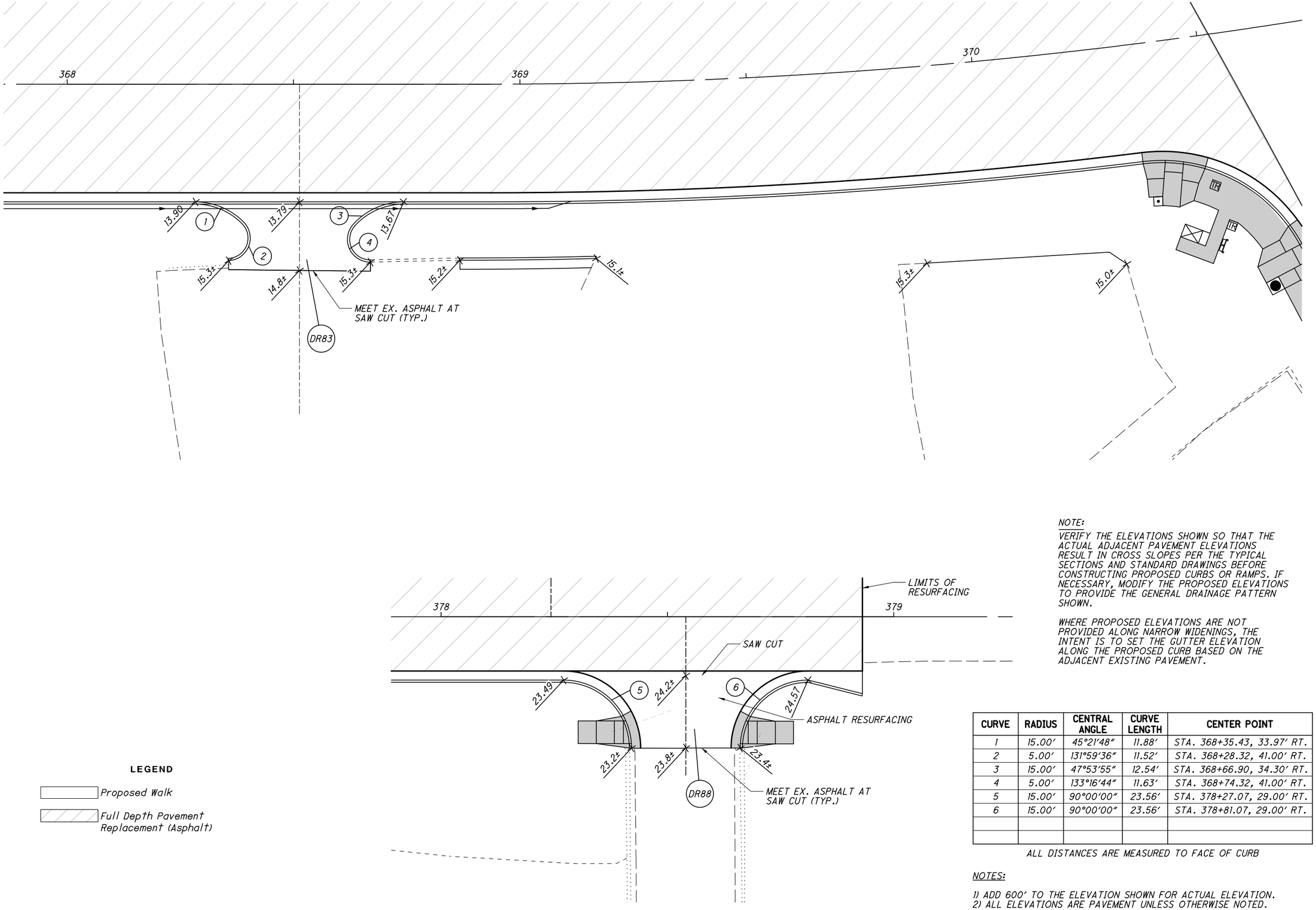

LEGEND

- Proposed Walk
- Full Depth Pavement Replacement (Asphalt)

NOTE:

VERIFY THE ELEVATIONS SHOWN SO THAT THE ACTUAL ADJACENT PAVEMENT ELEVATIONS RESULT IN CROSS SLOPES PER THE TYPICAL SECTIONS AND STANDARD DRAWINGS BEFORE CONSTRUCTING PROPOSED CURBS OR RAMPS. IF NECESSARY, MODIFY THE PROPOSED ELEVATIONS TO PROVIDE THE GENERAL DRAINAGE PATTERN SHOWN.

WHERE PROPOSED ELEVATIONS ARE NOT PROVIDED ALONG NARROW WIDENINGS, THE INTENT IS TO SET THE GUTTER ELEVATION ALONG THE PROPOSED CURB BASED ON THE ADJACENT EXISTING PAVEMENT.

CURVE	RADIUS	CENTRAL ANGLE	CURVE LENGTH	CENTER POINT
1	15.00′	45°21′48″	11.88′	STA. 368+35.43, 33.97′ RT.
2	5.00′	131°59′36″	11.52′	STA. 368+28.32, 41.00′ RT.
3	15.00′	47°53′55″	12.54′	STA. 368+66.90, 34.30′ RT.
4	5.00′	133°16′44″	11.63′	STA. 368+74.32, 41.00′ RT.
5	15.00′	90°00′00″	23.56′	STA. 378+27.07, 29.00′ RT.
6	15.00′	90°00′00″	23.56′	STA. 378+81.07, 29.00′ RT.

ALL DISTANCES ARE MEASURED TO FACE OF CURB

NOTES:

1) ADD 600′ TO THE ELEVATION SHOWN FOR ACTUAL ELEVATION.
2) ALL ELEVATIONS ARE PAVEMENT UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED | CHECKED

DRIVE DETAIL (DR-83 & DR-88)
BOGART RD AT 368+51 & 378+54

ERI-250-0.00

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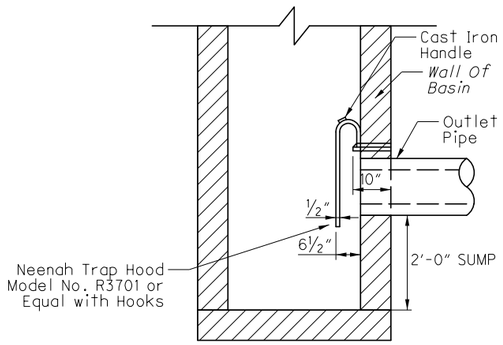

TRAP HOODS SHALL BE INSTALLED IN ALL CATCH BASINS, WHERE REQUIRED BY CITY TO SATISFY ENVIRONMENTAL CONCERNS.

NOTE: TRAP HOODS MUST BE SIZED TO BE REMOVABLE FROM CB THROUGH GRATE OPENING FROM ABOVE.

PAYMENT FOR ALL LABOR, EQUIPMENT, & MATERIALS NECESSARY TO CONSTRUCT THE SUMP AND TRAP HOOD AS INDICATED HEREIN SHALL BE INCLUDED WITH THE APPROPRIATE 604 AS PER PLAN DRAINAGE STRUCTURE ITEM.

TRAP HOOD INSTALLATION DETAIL FOR:

CATCH BASIN, NO.3 W/ 2' SUMP, AS PER PLAN
CATCH BASIN, NO.3A W/ 2' SUMP, AS PER PLAN

ITEM 604, MANHOLE NO. 3, WITH 2' SUMP, AS PER PLAN
IN ADDITION TO THE RESPECTIVE ITEM AND ALL APPROPRIATE PARTS OF CMS ITEM 604, THIS ITEM SHALL INCLUDE A 2'-0" SUMP AND THE INSTALLATION OF AN EJ PRESCOTT PPF CATCH BASIN HOOD OR APPROVED EQUAL AS INDICATED IN THE PLANS. THE TRAP HOOD SHALL CONFORM TO THE SHAPE OF THE CURVED STRUCTURE WALL AND BE CONSTRUCTED FROM SOLID WALL HDPE PIPE AND/OR PLATE. THE TRAP HOOD SHALL BE CONSTRUCTED SO THAT IT TRAPS GASES EXITING THE COMBINED SEWER PIPE OUTLETTING THE STRUCTURE. THE TRAP HOOD SHALL PROTRUDE AT LEAST SIX INCHES OR ONE-THIRD THE PIPE'S INSIDE DIAMETER BELOW THE INVERT, WHICHEVER IS GREATER. THE HOOD SHALL BE SEALED TO THE MANHOLE STRUCTURE WITH AN OIL RESISTANT FOAM GASKET. THE HOOD SHALL BE ATTACHED TO THE STRUCTURE WITH STAINLESS STEEL ANCHOR STUDS AND NUTS, ALLOWING THE HOOD TO BE REMOVED AND INSTALLED WITH MINIMUM EFFORT. A MINIMUM OPENING AREA SHALL BE PROVIDED FOR THE HOOD EQUIVALENT TO THE OUTLETTING DIAMETER PIPE. CONTRACTOR SHALL VERIFY DESIGN DIMENSIONS OF THE HOOD BEFORE ORDERING. VENT HOLES SHALL NOT BE PROVIDED. THE CONTRACTOR SHALL VERIFY THAT VENT HOLES ARE NOT INCLUDED IN THE HOOD BEFORE ORDERING.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 604, MANHOLE, NO. 3 WITH 2' SUMP, AS PER PLAN.

CALCULATED | CHECKED

MISCELLANEOUS DETAILS

ERI-250-0.00

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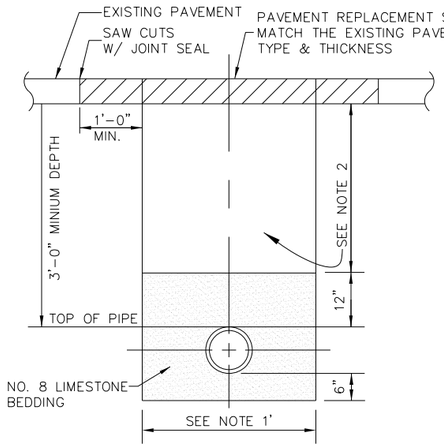
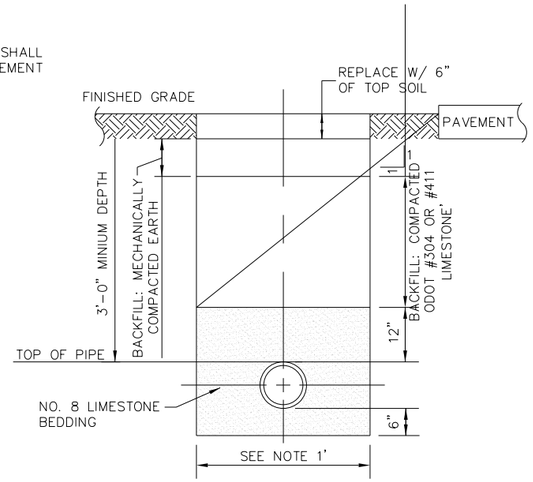


TRENCH WITHIN PAVEMENT
N.T.S.



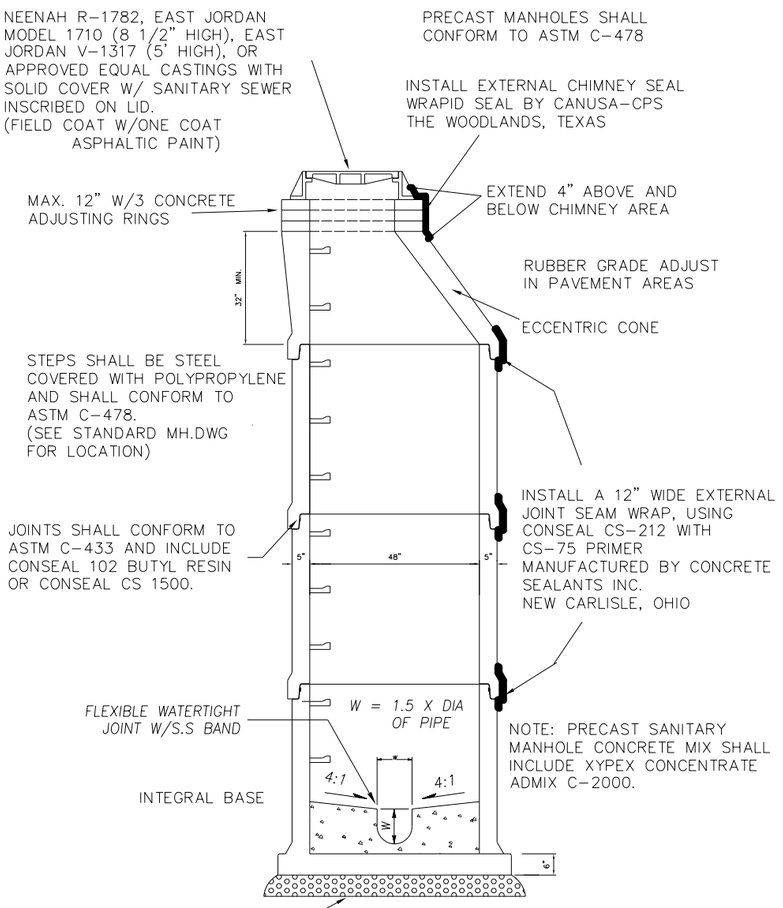
TRENCH OUTSIDE OF PAVEMENT
N.T.S.

NOTES:

1. THE WIDTH OF THE TRENCH SHALL BE AT LEAST 12 INCHES AND NOT EXCEED 24 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE. THE SANITARY LINE SHALL BE LOCATED IN CENTER OF TRENCH TO ALLOW FOR A MINIMUM OF 6 INCH CLEARANCE FROM TRENCH WALLS.
2. BACKFILL:
AS A MINIMUM USE COMPACTED ODOT #304 OR #411 LIMESTONE TO 95% STANDARD PROCTOR, OR AS REQUIRED BY THE POLITICAL SUBDIVISION MAINTAINING THE PAVEMENT IF MORE STRIGENT.

NOTE: ODOT, COUNTY ENGINEER OR TOWNSHIP MAY REQUIRE SPECIAL BACKFILL NEAR AND/OR UNDER PAVEMENT.

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES	
TYPICAL TRENCH SECTION FOR SANITARY LINE INSTALLATION	
SCALE: N.T.S.	STANDARD DRAWING NO. 2



STANDARD SANITARY MANHOLE

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES	
STANDARD SANITARY MANHOLE	
SCALE: N.T.S.	STANDARD DRAWING NO. 1

CALCULATED | CHECKED

SANITARY SEWER DETAILS

ERI-250-0.00

347
677

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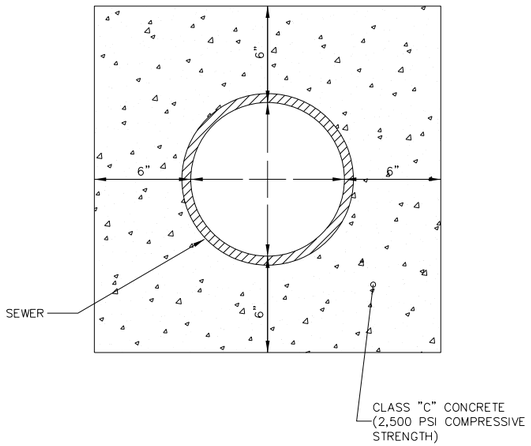
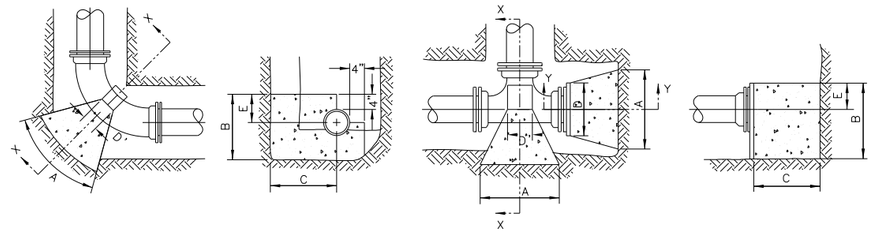


ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES	
CONCRETE PIPE ENCASEMENT	
SCALE: N.T.S.	STANDARD DRAWING NO. 4



PLAN
45°,22.5° & 11.25°

SECTION X–X

PLAN
DEAD END OR TEE

SECTION Y–Y

	11.25° BEND			22.5° BEND			45° BEND			TEE–DEAD END		
DIA	A	B	C.Y.	A	B	C.Y.	A	B	C.Y.	A	B	C.Y.
4"	–	–	–	–	–	–	1'–0"	1'–0"	0.08	1'–1"	1'–0"	0.08
6"	–	–	–	1'–0"	1'–0"	0.08	1'–7"	1'–2"	0.12	1'–10"	1'–4"	0.15
8"	1'–0"	1'–0"	0.07	1'–5"	1'–2"	0.11	2'–5"	1'–4"	0.17	2'–6"	1'–8"	0.23
10"	1'–2"	1'–2"	0.09	2'–0"	1'–4"	0.15	3'–0"	1'–8"	0.25	3'–4"	2'–0"	0.32
12"	1'–5"	1'–4"	0.23	2'–6"	1'–6"	0.35	3'–8"	2'–0"	0.65	4'–1"	2'–4"	0.82
14"	1'–8"	1'–6"	0.28	3'–0"	1'–8"	0.45	4'–3"	2'–4"	0.84	4'–10"	2'–8"	1.05
16"	2'–0"	1'–8"	0.33	3'–4"	2'–0"	0.58	4'–10"	2'–8"	1.06	5'–7"	3'–0"	1.30
18"	2'–4"	1'–10"	0.53	3'–7"	2'–4"	0.95	5'–6"	3'–0"	1.73	6'–1"	3'–6"	2.18
20"	2'–7"	2'–0"	0.61	3'–10"	2'–8"	1.15	6'–1"	3'–4"	2.05	6'–7"	4'–0"	2.62
24"	3'–5"	2'–2"	0.97	5'–0"	3'–0"	1.91	7'–7"	3'–10"	3.44	8'–6"	4'–6"	4.47

DIMENSION C
4"–10" DIA.=2'–0"
12"–16" DIA.=3'–0"
18"–20" DIA.=4'–0"
24" DIA.=5'–0"

DIMENSION D
4"–10" DIA.=1'–0"
12"–24" DIA.=2'–0"

DIMENSION E
FOR ALL DIAMETERS
E=D/2+4"

NOTE:

1. BLOCKING DESIGN BASED ON WORKING PRESSURE 150 PSI + 100 PSI WATER HAMMER AND SOIL BEARING 3000 PSF.

2. THRUST BLOCKS SHALL BE CLASS "C" CONCRETE 4,000 PSI COMPRESSIVE STRENGTH.

3. THRUST BLOCKS SHALL BE 3" MINIMUM CLEARANCE FROM ALL BOLTS

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES	
THRUST BLOCKING DETAILS FOR BENDS IN HORIZONTAL PLANE (WORKING PRESSURE UP TO 150 PSI)	
SCALE: N.T.S.	STANDARD DRAWING NO. 5

CALCULATED | CHECKED

SANITARY SEWER DETAILS

ERI-250-0.00

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677

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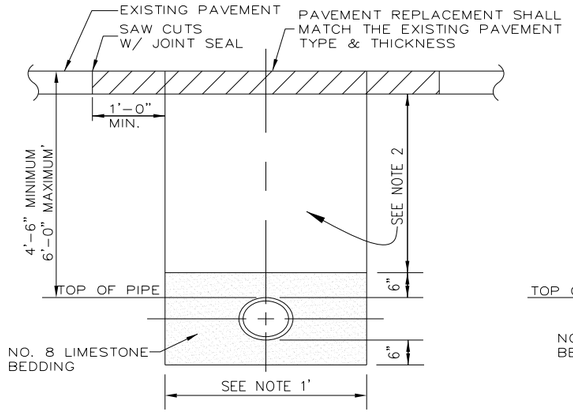
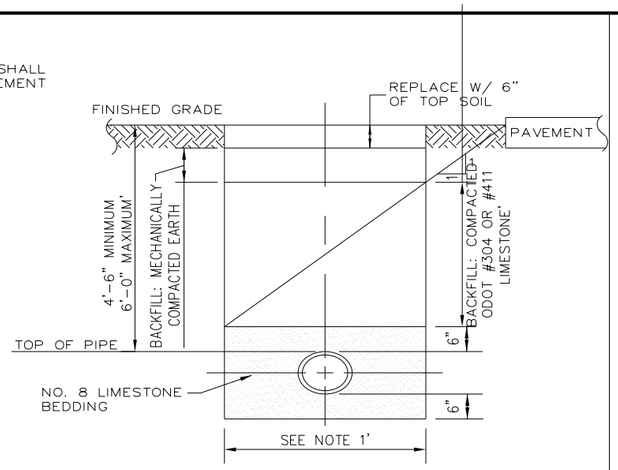


TRENCH WITHIN PAVEMENT
N.T.S.



TRENCH OUTSIDE OF PAVEMENT
N.T.S.

NOTES:

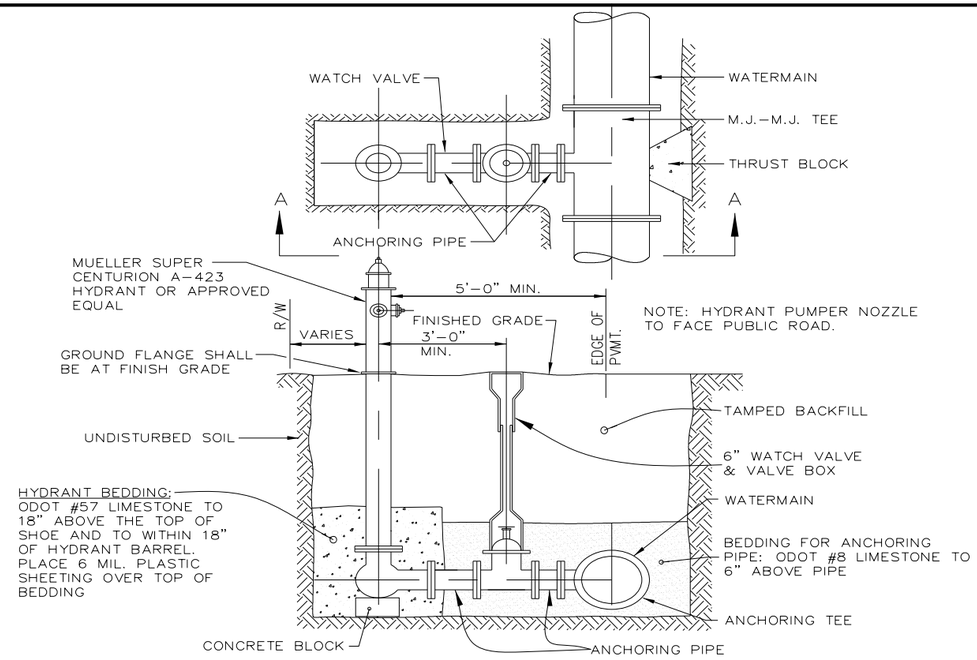
1. THE WIDTH OF THE TRENCH SHALL BE AT LEAST 12 INCHES AND NOT EXCEED 24 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE. THE WATERLINE SHALL BE LOCATED IN CENTER OF TRENCH TO ALLOW FOR A MINIMUM OF 6 INCH CLEARANCE FROM TRENCH WALLS.
2. BACKFILL:
AS A MINIMUM USE COMPACTED ODOT #304 OR #411 LIMESTONE TO 95% STANDARD PROCTOR, OR AS REQUIRED BY THE POLITICAL SUBDIVISION MAINTAINING THE PAVEMENT IF MORE STRIGENT.

NOTE: ODOT, COUNTY ENGINEER OR TOWNSHIP MAY REQUIRE SPECIAL BACKFILL NEAR AND/OR UNDER PAVEMENT.

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

TYPICAL TRENCH SECTION FOR WATERMAIN INSTALLATION

SCALE: N.T.S. | STANDARD DRAWING NO. 1



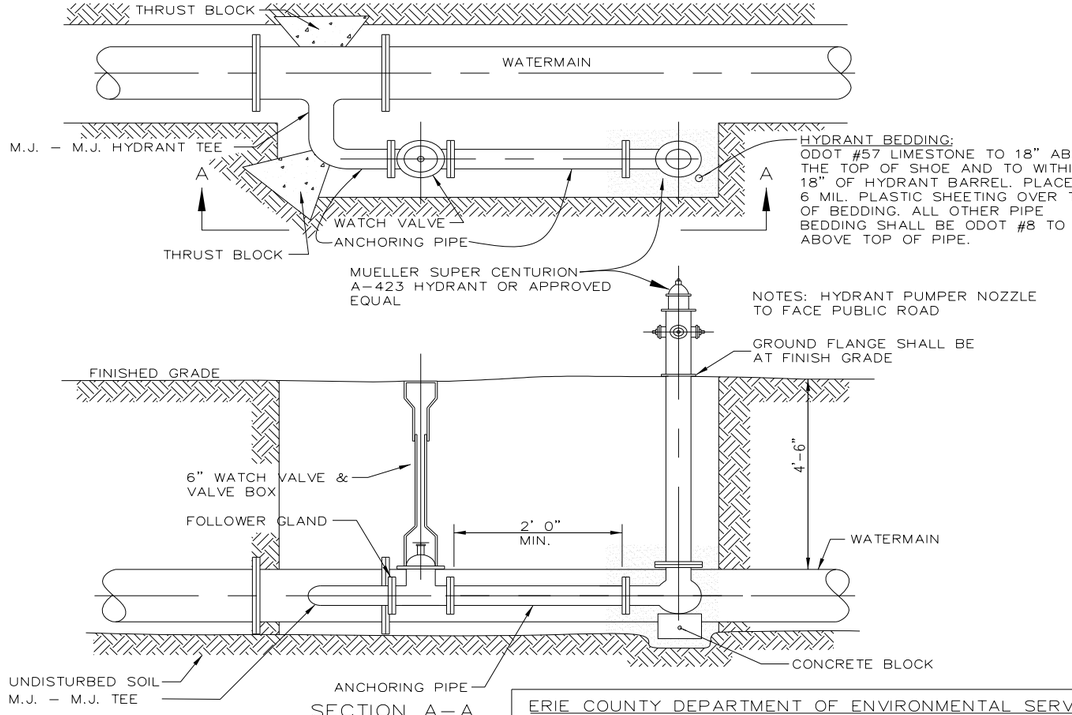
SECTION A-A

NOTE: ANCHORING PIPE LENGTH BETWEEN VALVE AND HYDRANT SHALL BE AT LEAST 2'-0" IN LENGTH.

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

HYDRANT PERPENDICULAR TO WATERMAIN

SCALE: N.T.S. | STANDARD DRAWING NO. 2

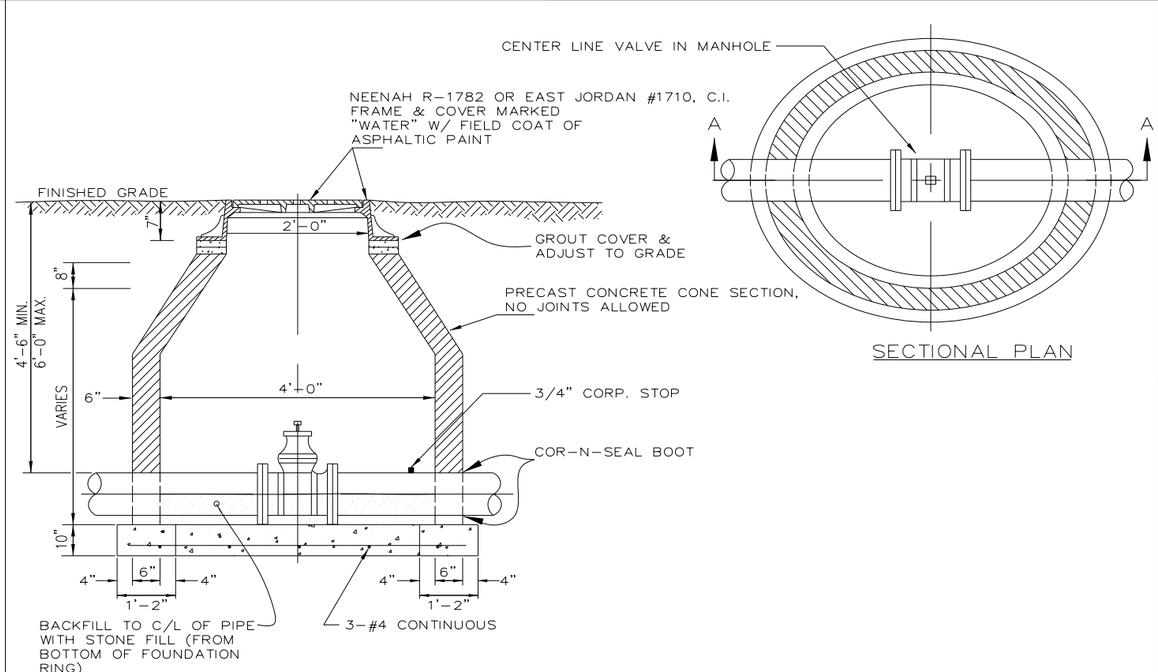


SECTION A-A

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

HYDRANT PARALLEL TO WATERMAIN

SCALE: N.T.S. | STANDARD DRAWING NO. 3



SECTIONAL PLAN

NOTES:
1. DESIGN MANHOLE FOR H-20 HIGHWAY LOADINGS
2. CLASS "C", 4,500 PSI CONCRETE MIX

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

LINE VALVE AND MANHOLE

SCALE: N.T.S. | STANDARD DRAWING NO. 4

CALCULATED | CHECKED

WATER LINE DETAILS

ERI-250-0.00

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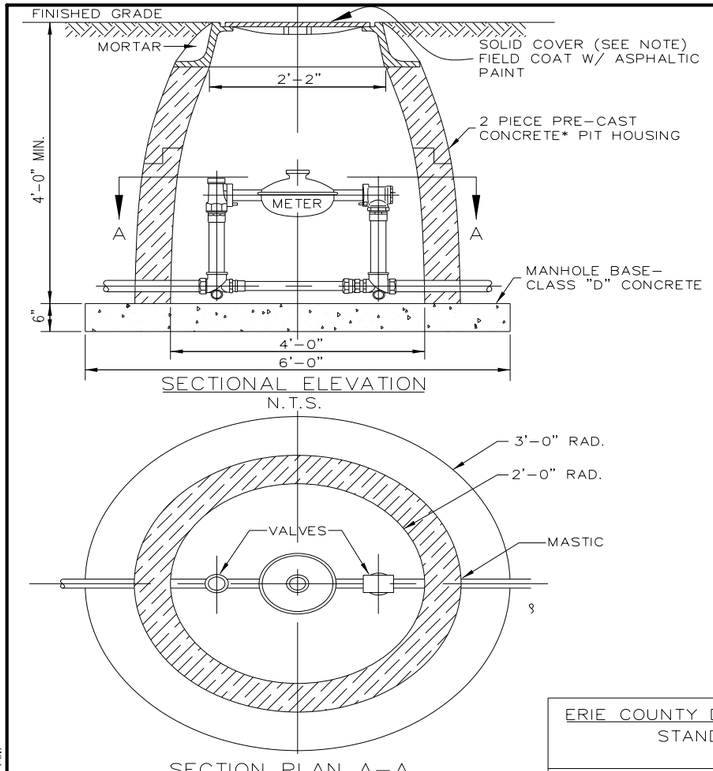


NOTES

1. EXCAVATION FOR METER PIT TO BE DONE BY CONTRACTOR.

2. CONCRETE PIT BASE & PRE-CAST CONCRETE PIT HOUSING* TO BE FURNISHED & INSTALLED BY PROPERTY OWNER.

3. METER PIT COVER, SPECIFICATIONS: IN GRASS AREA: FORD #24 MONITOR COVER IN DRIVE OR PARKING LOT: NEENAH #R-1782 OR EAST JORDAN #1710. ALL MUST BE MARKED "WATER". NO AIR HOLES.

4. COVERS MAY BE AVAILABLE AT ERIE COUNTY WATER DEPARTMENT. PROPERTY OWNER SHALL INSTALL AND ADJUST METER PIT COVER TO THE PROPER GRADE.

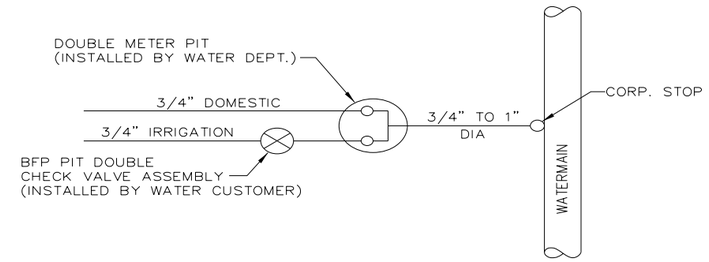
5. METER, VALVES AND PIPING IN METER PIT TO BE FURNISHED AND INSTALLED BY ERIE COUNTY WATER DEPARTMENT.

6. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE WATER MAINTENANCE DEPARTMENT AT 2614 COLUMBUS AVE. AT (419) 627-7667.

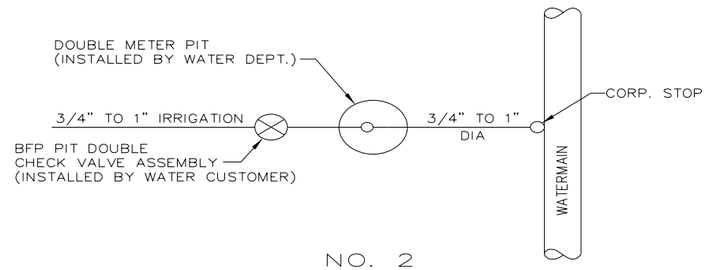
* PRE-CAST CONCRETE PIT HOUSING TO BE OF THE TYPE APPROVED BY THE ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
STANDARD METER PIT FOR 1 1/2" & 2" WATER SERVICE

SCALE: N.T.S. | STANDARD DRAWING NO. 6



NO. 1

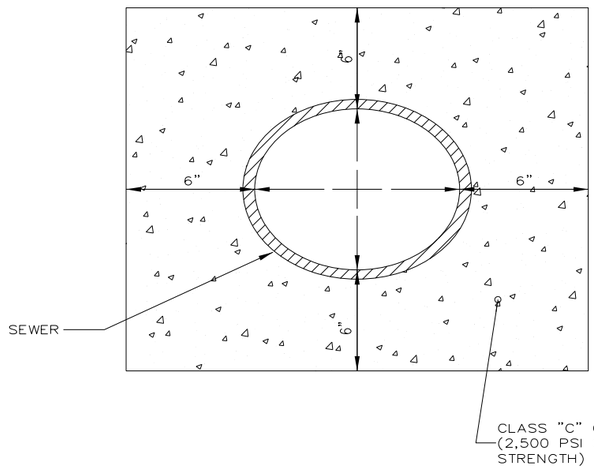


NO. 2

NOTES:
LARGER THAN 1" DIAMETER SERVICE LINES FOR IRRIGATION METERS, CUSTOMERS/CONTRACTORS SHALL CONSULT WITH THE ERIE COUNTY WATER DEPT. FOR ACCEPTABLE DESIGN AND CONCERNING INSTALLATION RESPONSIBILITIES. ERIE COUNTY RESERVES THE RIGHT TO LIMIT THE USE OF WATER THROUGH IRRIGATION OR TO SHUT IRRIGATION SERVICES OFF AS NEEDED TO ADEQUATELY SUPPLY NECESSARY WATER TO CUSTOMERS.

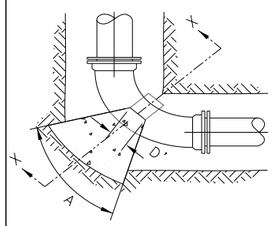
ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
LAWN IRRIGATION SERVICE INSTALLATIONS

SCALE: N.T.S. | STANDARD DRAWING NO. 9

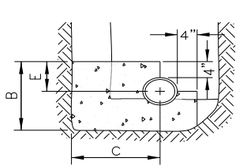


ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
CONCRETE PIPE ENCASEMENT

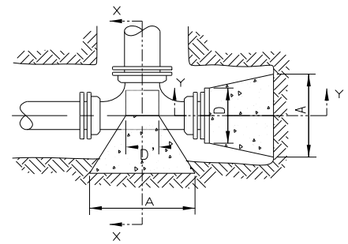
SCALE: N.T.S. | STANDARD DRAWING NO. 10



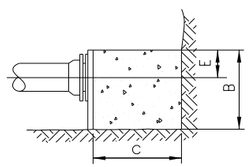
PLAN
45°,22.5° & 11.25°



SECTION X-X



PLAN
DEAD END OR TEE



SECTION Y-Y

DIA	11.25° BEND			22.5° BEND			45° BEND			TEE-DEAD END		
	A	B	C.Y.	A	B	C.Y.	A	B	C.Y.	A	B	C.Y.
4"	–	–	–	–	–	–	1'-0"	1'-0"	0.08	1'-1"	1'-0"	0.08
6"	–	–	–	1'-0"	1'-0"	0.08	1'-7"	1'-2"	0.12	1'-10"	1'-4"	0.15
8"	1'-0"	1'-0"	0.07	1'-5"	1'-2"	0.11	2'-5"	1'-4"	0.17	2'-6"	1'-8"	0.23
10"	1'-2"	1'-2"	0.09	2'-0"	1'-4"	0.15	3'-0"	1'-8"	0.25	3'-4"	2'-0"	0.32
12"	1'-5"	1'-4"	0.23	2'-6"	1'-6"	0.35	3'-8"	2'-0"	0.65	4'-1"	2'-4"	0.82
14"	1'-8"	1'-6"	0.28	3'-0"	1'-8"	0.45	4'-3"	2'-4"	0.84	4'-10"	2'-8"	1.05
16"	2'-0"	1'-8"	0.33	3'-4"	2'-0"	0.58	4'-10"	2'-8"	1.06	5'-7"	3'-0"	1.30
18"	2'-4"	1'-10"	0.53	3'-7"	2'-4"	0.95	5'-6"	3'-0"	1.73	6'-1"	3'-6"	2.18
20"	2'-7"	2'-0"	0.61	3'-10"	2'-8"	1.15	6'-1"	3'-4"	2.05	6'-7"	4'-0"	2.62
24"	3'-5"	2'-2"	0.97	5'-0"	3'-0"	1.91	7'-7"	3'-10"	3.44	8'-6"	4'-6"	4.47

DIMENSION C
4"-10" DIA.=2'-0"
12"-16" DIA.=3'-0"
18"-20" DIA.=4'-0"
24" DIA.=5'-0"

DIMENSION D
4"-10" DIA.=1'-0"
12"-24" DIA.=2'-0"

DIMENSION E
FOR ALL DIAMETERS
E=D/2+4"

NOTE:

1. BLOCKING DESIGN BASED ON WORKING PRESSURE 150 PSI + 100 PSI WATER HAMMER AND SOIL BEARING 3000 PSF.

2. THRUST BLOCKS SHALL BE CLASS "C" CONCRETE 4,000 PSI COMPRESSIVE STRENGTH.

3. THRUST BLOCKS SHALL BE 3" MINIMUM CLEARANCE FROM ALL BOLTS

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
THRUST BLOCKING DETAILS FOR BENDS IN HORIZONTAL PLANE (WORKING PRESSURE UP TO 150 PSI)

SCALE: N.T.S. | STANDARD DRAWING NO. 11

CALCULATED | CHECKED

WATER LINE DETAILS

ERI-250-0.00

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SHEET NUMBER										PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
			363		386		405		412	01/SAF/ OT/ERI	02/SAF/ OT/ESCE						
																TRAFFIC CONTROL	
			1287							1287		621	00100	1287	EACH	RPM	
			1284							1284		621	54000	1284	EACH	RAISED PAVEMENT MARKER REMOVED	
							23			23		625	32000	23	EACH	GROUND ROD	
					688					688		630	02100	688	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
					1628					1628		630	03100	1628	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
					129					129		630	04100	129	FT	GROUND MOUNTED SUPPORT, NO. 4 POST, TYPE S	
					38					38		630	06100	38	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
					76					76		630	07600	76	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
							1			1		630	10603	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 6, AS PER PLAN	
							1			1		630	10803	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8, AS PER PLAN	
							3			3		630	11103	3	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 11, AS PER PLAN	352
							5			5		630	11203	5	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 12, AS PER PLAN	352
							13			13		630	11208	13	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN	352
									120	120		630	75001	120	EACH	SIGN ATTACHMENT ASSEMBLY, AS PER PLAN	352
					1				21	22		630	79501	22	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	352
					711					711		630	80100	711	SQ FT	SIGN, FLAT SHEET	
							655		596	1251		630	80225	1251	SQ FT	SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN	352
					4					4		630	84500	4	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
							23			23		630	84510	23	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
					100					100		630	84900	100	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					102					102		630	85100	102	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					168					168		630	86002	168	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
					4					4		630	86102	4	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
					6					6		630	87400	6	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
					3					3		630	87500	3	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
					13					13		630	87520	13	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	
					2					2		630	89810	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	
			7.18							7.18		644	00100	7.18	MILE	EDGE LINE, 4"	
			5.67							5.67		644	00200	5.67	MILE	LANE LINE, 4"	
			4.24							4.24		644	00300	4.24	MILE	CENTER LINE	
			13912							13912		644	00400	13912	FT	CHANNELIZING LINE, 8"	
			2165							2165		644	00500	2165	FT	STOP LINE	
			8348							8348		644	00600	8348	FT	CROSSWALK LINE	
			1929							1929		644	00700	1929	FT	TRANSVERSE/DIAGONAL LINE	
			111							111		644	00900	111	SQ FT	ISLAND MARKING	
			273							273		644	01300	273	EACH	LANE ARROW	
			2773							2773		644	01500	2773	FT	DOTTED LINE, 4"	
			2123							2123		644	01514	2123	FT	DOTTED LINE, 8"	
			212							212		644	20800	212	FT	YIELD LINE	
			832							832		644	30000	832	FT	REMOVAL OF PAVEMENT MARKING	
			13							13		644	30020	13	EACH	REMOVAL OF PAVEMENT MARKING	

CALCULATED LMZ
CHECKED GAB

TRAFFIC CONTROL GENERAL SUMMARY

ERI-250-0.00

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ITEM 630 - SIGNING, MISC.: SIGN DATA COLLECTION

THIS ITEM OF WORK SHALL ONLY PERTAIN TO ODOT MAINTAINED SIGNS ON THIS PROJECT. THESE SIGNS INCLUDE SIGNS LOCATED OUTSIDE MUNICIPAL CORPORATION LIMITS AND ALSO THE FOLLOWING SIGNS LOCATED INSIDE MUNICIPAL CORPORATION LIMITS:

1) GUIDE SIGNS RELATING TO THE STATE HIGHWAY SYSTEM

2) ROUTE MARKER SIGN INSTALLATIONS INCLUDING ASSOCIATED AUXILIARY SIGNS SUCH AS CARDINAL DIRECTION SIGNS, ARROWS, "TO", "JCT", ETC...

SIGN DATA COLLECTION SHALL CONSIST OF COLLECTING AND RECORDING INFORMATION FOR ANY WORK INVOLVING THESE SIGNS INCLUDING SIGN REMOVAL, SIGN RELOCATION OR NEW SIGN INSTALLATION ON THIS PROJECT. DISTRICT THREE HAS A SIGN INVENTORY SYSTEM IN OPERATION. WORK PERFORMED ON EXISTING SIGNS AND INSTALLATION OF NEW SIGNS WILL AFFECT THE ACCURACY OF THE INVENTORY.

ALL EXISTING SIGNS HAVE A BAR CODE STICKER. THE BAR CODE STICKER NUMBER FOR ANY SIGNS REMOVED ON THE PROJECT SHALL BE RECORDED COMPLETELY AND ACCURATELY SO THEY CAN BE REMOVED FROM THE INVENTORY. THE BAR CODE STICKER NUMBER FOR ANY SIGNS THAT ARE NEW OR RELOCATED SHALL ALSO BE RECORDED COMPLETELY AND ACCURATELY. NEW SIGNS REQUIRE NEW BAR CODE STICKERS WHICH WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. ANY STICKERS NOT USED ARE TO BE RETURNED TO ODOT DISTRICT 3 TRAFFIC DEPARTMENT. BAR CODE STICKERS CAN ALSO BE OBTAINED FROM ODOT DISTRICT 3 BY CONTACTING MATT BLANKENSHIP, ROADWAY SERVICES MANAGER, PHONE 419-207- 7045.

THE INFORMATION SHALL BE COLLECTED FROM ALL SIGNS REMOVED, RELOCATED OR INSTALLED ON THE PROJECT AND RECORDED COMPLETELY AND ACCURATELY BY A PERSON FAMILIAR WITH SIGNING TERMINOLOGY. THE INFORMATION REQUIRED APPEARS ON A FORM WHICH WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING. ALL SECTIONS OF THE FORM SHALL BE COMPLETED FROM THE INFORMATION COLLECTED FOR EACH SIGN. NOTE THAT THE STRAIGHT LINE MILEAGE LOG POINT OF THE SIGN REMOVAL, RELOCATION OR INSTALLATION IS TO BE PROVIDED. PROJECT STATIONING IS NOT ACCEPTABLE. AFTER THE FORM IS COMPLETED, IT SHALL BE RETURNED TO ODOT DISTRICT 3 TRAFFIC DEPARTMENT. A COPY OF THIS FORM IS AVAILABLE UPON REQUEST FOR THE CONTRACTOR TO REVIEW FOR BIDDING PURPOSES. FOR A COPY OF THIS FORM PLEASE CALL 1-419-207- 7045, ROADWAY SERVICES MANAGER.
ALL COMPLETED FORMS FOR THE PROJECT ARE TO BE PROVIDED TO THE ENGINEER NOT LATER THAN 30 CALENDAR DAYS AFTER COMPLETION OF SIGNING WORK ITEMS.

PAYMENT FOR THE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK WHICH INCLUDES COLLECTION OF INFORMATION, COMPLETION OF THE FORMS SUPPLIED TO THE CONTRACTOR, INSTALLATION OF BAR CODE STICKERS, MEASURING OF THE SIGNS AND ANY OTHER WORK IN ORDER TO COMPLETE THE FORM SHALL BE INCLUDED IN THE COST OF ITEM 630 - SIGNING, MISC.: SIGN DATA COLLECTION PER EACH.

SIGN REPLACEMENTS

WITH RESPECT TO THE REPLACEMENT OF EXISTING SIGNS THE CONTRACTOR SHALL IN NO CASE REMOVE A SIGN UNLESS THE APPLICABLE REPLACEMENT CAN BE ERECTED WITHIN THE SAME WORKING DAY.

ITEM 630 - OVERHEAD SIGN SUPPORT, TYPE TC-16.21, AS PER PLAN

PAINT THE ENTIRE SUPPORT INCLUDING SIGN ATTACHMENT ASSEMBLIES AND BRACKETS PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

ITEM 630 - SIGN ATTACHMENT ASSEMBLY, AS PER PLAN

PROVIDE BRACKETS, U-BOLTS AND HARDWARE PER SCD TC-16.21 TO MOUNT EXTRUSHEET SIGNS TO SIGNAL SUPPORTS. TWO ARE REQUIRED PER SIGN.

PAINT THE ENTIRE ASSEMBLY PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

ITEM 630 - SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN

PROVIDE A SINGLE TC-9.10 CROSS ARM, DESIGN 1 WITH ATTACHMENT AND HARDWARE FOR MOUNTING AN EXRUSHEET SIGN TO THE VERTICAL POLE OF A TC-81.21 SIGNAL SUPPORT.

PAINT THE ENTIRE SUPPORT ASSEMBLY PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

ITEM 630 - SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN

PAINT THE SIGN BACK AND EDGES INCLUDING SIGN BRACKETS PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

CALCULATED | CHECKED

TRAFFIC CONTROL GENERAL NOTES (SHEET 1 OF 2)

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PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS

GENERAL - WHERE DESIGNATED IN "AS PER PLAN" OR "ALTERNATE BID" NOTES, GALVANIZED STEEL SUPPORT ITEMS SHALL BE FINISHED GLOSS HUNTER GREEN, FEDERAL STANDARD 595C, COLOR 14109, USING THE PAINT SYSTEM SPECIFIED BELOW.

THE EXPOSED PORTION OF THE ANCHOR BOLTS AND NUTS THAT CAN BE SEEN BY THE PUBLIC ABOVE THE BASE PLATE OF THE VERTICAL POLE SHALL ALSO BE FIELD PAINTED TO MATCH. THE PART OF THE ANCHOR BOLT AND THE NUT SHALL BE FIELD CLEANED AS APPROVED BY THE ENGINEER IN ORDER TO ACCEPT THE THREE COAT PAINT SYSTEM MENTIONED BELOW.

THE PROTECTIVE COATING OF SUPPORT ITEMS SHALL BE A FOUR PART PROCESS TO INCLUDE SURFACE PREPARATION FOLLOWED BY A THREE COAT PAINT SYSTEM. THIS THREE COAT SYSTEM SHALL CONSIST OF AN EPOXY PRIME COAT, AN EPOXY INTERMEDIATE COAT AND A URETHANE FINISH COAT; WITH EACH COAT BEING A DIFFERENT COLOR.

THE PURPOSE OF THIS COATING IS TO PROVIDE PROTECTION FOR NEW, UN-WEATHERED GALVANIZED STEEL SUPPORT ITEMS FROM CORROSIVE ELEMENTS IN THE ATMOSPHERE. COATING AND SURFACE PREPARATION OF THE NEW GALVANIZED SUPPORT ITEMS SHOULD BE DONE BY THE MANUFACTURER.

COATING SYSTEM - THE COATING SYSTEM SHALL BE A THREE COAT PAINT SYSTEM CONFORMING TO 708.02. SUPPLY THE PRIMER, INTERMEDIATE AND FINISH COATS FROM THE SAME PAINT MANUFACTURER.

SURFACE PREPARATION, NEW SUPPORT ITEMS - NEW, UN- WEATHERED GALVANIZED SUPPORT ITEMS SHOULD HAVE THEIR SURFACE PREPARATION AND PROTECTIVE COATING APPLIED AT THE MANUFACTURING FACILITY OF THE SUPPORT ITEMS.

THE SUPPORT ITEMS SHALL BE PREPARED FOR COATING BY SSPC-SP1 SOLVENT CLEANING (DO NOT USE ALKALINE CLEANERS) FOLLOWED BY SSPC-SP7, 100% BRUSH-OFF BLAST OF SURFACE.

BEFORE THE PREPARED SURFACE DEGRADES FROM THE PRESCRIBED STANDARDS, THE PRIME COAT SHALL BE APPLIED. IN EVERY CASE, THE SURFACE SHALL BE COATED WITH THE ORGANIC ZINC PRIME COAT ON THE SAME DAY OF SURFACE PREPARATION. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING, OR OTHER DAMAGE TO THE PREPARED SURFACE.

COATING, EPOXY PRIME COAT

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE COAT OF EPOXY PRIMER TO THE SUPPORT ITEMS. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL BE BETWEEN 1.5 TO 2.0 MILS (38 TO 51 MICROMETERS). IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED THICKNESS, THAT COST SHALL BE BORNE BY THE CONTRACTOR. THE COLOR OF THIS COAT SHALL BE NOTICEABLY DIFFERENT FROM THE BASE MATERIAL AND OTHER PROPOSED COATS.

THIS COAT SHALL IN ALL CASES BE APPLIED OVER SURFACES THAT WERE PREPARED EARLIER THAT SAME DAY. THE THINNING OF THE MATERIAL IS STRICTLY PROHIBITED. MATERIAL INCAPABLE OF BEING APPLIED AS SPECIFIED SHALL NOT BE USED.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT OVER THE ENTIRE SUPPORT SECTION IS LESS THAN THE SPECIFIED 1.5 TO 2.0 MILS (38 TO 51 MICROMETERS) BUT IS AT LEAST 1.25 MILS (32 MICROMETERS), THE CONTRACT BID PRICE FOR THIS ITEM SHALL BE REDUCED TO DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 16.67%. IF THE DEFICIENCY OF COATING IS MORE THAN THAT 16.67% [(THAT IS, THE AVERAGE DRY FILM THICKNESS IS LESS THAN 1.25 MILS (32 MICROMETERS)] THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL.

THE PRIME COAT SHOULD BE APPLIED AT THE MANUFACTURING FACILITY OF THE SUPPORT ITEMS. VERIFICATION BY THE MANUFACTURER OF THE COATING MATERIAL FOR THE PRIME COAT WILL BE REQUIRED. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING OR OTHER SURFACE DAMAGE TO THE PRIME COAT.

THIS PRIME COAT SHALL BE MANUFACTURED BY THE SAME COMPANY SUPPLYING THE INTERMEDIATE AND TOP COATS. A PROPERLY CALIBRATED DRY FILM THICKNESS INSTRUMENT WILL BE USED TO CHECK THE COATING.

COATING, EPOXY INTERMEDIATE COAT

THIS ITEM SHALL CONSIST OF THE APPLICATION OF ONE COAT OF EPOXY TO THE SUPPORT ITEMS. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN SIX MILS (152 MICROMETERS). IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED THICKNESS, WHICH COST SHALL BE BORNE BY THE CONTRACTOR. THINNING OF THE MATERIAL IS STRICTLY PROHIBITED. MATERIAL INCAPABLE OF BEING APPLIED AS SPECIFIED SHALL NOT BE USED.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT OVER THE ENTIRE SUPPORT SECTION IS LESS THAN THE SPECIFIED SIX MILS (152 MICROMETERS), BUT IS AT LEAST 5.0 MILS (127 MICROMETERS), THE CONTRACT PRICE FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 16.67%.

IF THE DEFICIENCY OF COATING IS MORE THAN 16.67% [THAT IS, THE AVERAGE DRY FILM THICKNESS IS LESS THAN 5.0 MILS (127 MICROMETERS)], THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL.

AT LEAST 24 HOURS BUT NO MORE THAN THREE DAYS SHALL ELAPSE AFTER THE APPLICATION OF THE ORGANIC ZINC PRIME COAT AND BEFORE THE APPLICATION OF THE EPOXY INTERMEDIATE COAT. SURFACE SHALL IN ALL CASES BE CLEAN BEFORE THE INTERMEDIATE COAT IS APPLIED.

THIS INTERMEDIATE COAT SHOULD BE DONE AT THE MANUFACTURING FACILITY OF THE SUPPORT ITEMS. VERIFICATION BY THE MANUFACTURER FOR THE INTERMEDIATE COAT WILL BE REQUIRED.

CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING OR OTHER SURFACE DAMAGE TO THE INTERMEDIATE COAT.

THIS INTERMEDIATE COAT SHALL BE MANUFACTURED BY THE SAME COMPANY SUPPLYING THE PRIME AND TOP COATS. A PROPERLY CALIBRATED DRY FILM THICKNESS INSTRUMENT WILL BE USED TO CHECK THE COATING.

COATING, URETHANE FINISH COAT

THIS ITEM SHALL CONSIST OF AN APPLICATION OF ONE COAT OF URETHANE TO THE SUPPORT ITEMS. THE TOTAL DRY FILM THICKNESS OF THIS COAT SHALL NOT BE LESS THAN 1.5 MILS (38 MICROMETERS). IF MORE THAN ONE PASS IS NECESSARY TO OBTAIN THE REQUIRED THICKNESS, THE COST SHALL BE BORNE BY THE CONTRACTOR. THINNING OF THE MATERIAL IS STRICTLY PROHIBITED. MATERIAL INCAPABLE OF BEING APPLIED AS SPECIFIED SHALL NOT BE USED. THE COLOR OF THIS COAT SHALL BE GLOSS HUNTER GREEN, FEDERAL STANDARD 595C, COLOR 14109.

WHEN THE AVERAGE DRY FILM THICKNESS OF THIS COAT OVER THE ENTIRE SUPPORT SECTION IS LESS THAN THE SPECIFIED 1.5 MILS (38 MICROMETERS) BUT IS AT LEAST 1.0 MIL (25 MICROMETERS), THE CONTRACT PRICE FOR THIS ITEM SHALL BE REDUCED IN DIRECT PROPORTION TO THE PERCENT DEFICIENCY OF COATING UP TO 33-1/3%.

IF THE DEFICIENCY OF COATING IS MORE THAN 33.33% [I.E. THE AVERAGE DRY FILM THICKNESS IS LESS THAN 1.0 MIL (25 MICROMETERS)] THE WORK FOR THIS ITEM SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RECOATED AT THE FULL EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL.

AT LEAST 24 HOURS BUT NO MORE THAN THREE DAYS SHALL ELAPSE AFTER THE APPLICATION OF THE EPOXY INTERMEDIATE COAT BEFORE THE APPLICATION OF THE URETHANE FINISH COAT IS MADE. IN ALL CASES SURFACES SHALL BE CLEANED BEFORE THE FINISH COAT IS APPLIED.

THIS FINISH COAT SHOULD BE DONE AT THE MANUFACTURING FACILITY OF THE SUPPORT ITEMS. VERIFICATION BY THE MANUFACTURER FOR THE FINISH COAT WILL BE REQUIRED. CAREFUL HANDLING AND STORAGE WILL BE REQUIRED TO PREVENT ANY SCRAPING, MARRING, OR SURFACE DAMAGE TO THE FINISH COAT.

THIS FINISH COAT SHALL BE MANUFACTURED BY THE SAME COMPANY SUPPLYING THE PRIME AND INTERMEDIATE COATS. A PROPERLY CALIBRATED, DRY FILM THICKNESS INSTRUMENT WILL BE USED TO CHECK THE COATING.

PAYMENT - ALL LABOR, EQUIPMENT, HANDLING COST AND MATERIAL NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE 630 OR 632 PAY ITEM, AS PER PLAN.

CALCULATED | CHECKED

TRAFFIC CONTROL GENERAL NOTES (SHEET 2 OF 2)

ERI-250-0.00

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
A1	364	7+74	8+40																			2						
A2	364	474+79	476+11																			3						
A3	364	1+02	1+98																			3						
R1	364			371	371	6																						
CH1	364	7+52	8+83	131												131												
CH2	364	474+69	476+41	172												172												
CH3	364	0+69	2+13	144												144												
CH4	364	8+33	9+05	215												215												
CH5	364	0+50	1+17	205												205												
CL1	364	5+97	9+41	344					0.07																			
CL2	364	0+00	2+13	213					0.04																			
CL3	364	471+82	476+41	459					0.09																			
CW1	364	8+43	0+00	231																231								
CW2	364	0+00	0+65	247																247								
DL1	364			334										334														
L1	364	1+45	2+15	70								0.01																
SL1	364	8+50	8+83	25															25									
SL2	364	8+40	8+52	16															16									
SL3	364		473+68	19															19									
SL4	364		474+69	23															23									
SL5	364	0+98	1+10	16															16									
SL6	364	0+69	0+92	25															25									
A1	365		16+76																			2						
A2	365		19+19																			2						
CW1	365		17+01	109																109								
CW2	365		17+60	108																108								
CW3	365		18+94	186																186								
CW4	365			68																68								
DL1	365	16+76	19+09										425	214														
L1	365	19+18	19+89	71								0.01																
R1	365			404	404	2																						
R2	365			57	57	2																						
SL1	365		16+76	24															24									
SL2	365			22															22									
SL3	365		19+09	28															28									
SL4	365			13															13									
A1	366	70+50	75+00																			4						
CL1	366	66+52	78+00	1148							0.22														15			15
EL1	366	66+27	78+00	1173			0.44																					
L1	366	66+52	78+00	1148								0.44														30		30
A1	367	80+50	88+50																			8						
CL1	367	78+00	90+50	1250							0.48	0.48													32	32		64
CW1	367		81+80	87																87								
CW2	367		84+03	95																95								
EL1	367	78+00	90+50	1250			0.48																					
L1	367	78+00	90+50	1250																								
SL1	367		81+80	16															16									
SL2	367		84+03	16															16									
TOTALS CARRIED TO SHEET 363					832	10	0.92	0.00	0.20	0.00	0.70	0.94	425	548	0	867	0	0	243	1131	0	24	0	0	47	62	0	109

PAVEMENT MARKING SUBSUMMARY (1 of 10)

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
A1	368	91+00	97+00																			6						
A2	368		96+06																			1						
A3	368	98+38	100+12																			3						
A4	368		101+59																			2						
CH1	368	98+30	100+24	194												194										3		3
CH2	368	101+44	102+09	65												130										2		2
CL1	368	90+50	97+33	683							0.26														18			18
CL2	368	97+33	102+09	476					0.09																6			6
CW1	368	95+99	96+50																	86								
CW2	368	95+92	96+48																	71								
CW3	368	100+29	101+28																	434								
EL1	368	90+50	102+09	1159			0.44																				32	32
EL2	368	95+36	97+07				0.02																					
L1	368	90+50	102+09	1159								0.44														30		30
SL1	368	96+26	96+39																13									
SL2	368	100+24	101+44																137									
T1	368	95+94	96+48														74											
T2	368	99+06	99+91														62											
YL1	368	95+98	96+10																		18							
A1	369	120+66	123+30	264																		5						
A2	369	121+53	123+52	199																		4						
A3	369		124+12																			1						
A4	369		124+39																			1						
A5	369	125+10	128+45	335																		6						
A6	369	125+10	127+10	200																		4						
A7	369	128+99	130+65	166																		3						
CH1	369	120+33	123+48	315												315										4		4
CH2	369	121+22	123+61	239												239										3		3
CH3	369		124+17	26												26										3		3
CH4	369		124+44	17												17										3		3
CH5	369	125+05	127+70	265												265										4		4
CH6	369	125+05	128+60	355												355										5		5
CH7	369	128+99	131+00	201												201										3		3
CL1	369	120+33	131+00	1067					0.20																14			14
CL2	369		124+33	17					0.01																1			1
CW1	369	123+63	125+01	138																679								
CW2	369	128+97	129+75	78																95								
DL1	369	123+48	124+01	53									65													1		1
DL2	369	128+60	131+00	240											240											3		3
EL1	369	120+33	131+00	1067			0.40																				32	32
IM1	369		120+33																					63				
L1	369	120+33	131+00	1067								0.40														27		27
TOTALS CARRIED TO SHEET 363					0	0	0.86	0.00	0.30	0.00	0.26	0.84	65	0	240	1742	136	0	150	1365	18	36	0	63	39	91	64	194

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PAVEMENT MARKING SUBSUMMARY (2 of 10)

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
					FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
SL1	369		123+62	36															36									
SL2	369	123+97	124+29	32															32									
SL3	369	124+33	124+70	37															37									
SL4	369		125+05	47															47									
A1	370	131+42	132+14	72																		2						
A2	370		132+73																			1						
A3	370	133+77	135+09	132																		3						
A4	370	133+77	134+68	91																		2						
A5	370	136+10	138+51	241																		4						
A6	370	12+70	14+02	132																		9						
A7	370	10+78	11+22	44																		2						
A8	370	139+96	140+62	66																		2						
A9	370	140+62	142+60	198																		4						
CH1	370	131+00	132+24	124												124									2		2	
CH2	370		132+79													26									3		3	
CH3	370	133+67	134+74	107												107									2		2	
CH4	370	133+67	135+64	197												197									3		3	
CH5	370	136+04	138+70	266												266									4		4	
CH6	370	12+59	14+21	162												162									3		3	
CH7	370	10+73	11+39	66												66									3		3	
CH8	370	139+63	143+00													470									6		6	
CL1	370	131+00	141+97	1097					0.21																14			14
CL2	370	141+97	143+50	153							0.06														4			4
CL3	370	10+73	11+39	66					0.01																1			1
CL4	370	12+59	15+58	299					0.06																4			4
CW1	370	132+25	133+63																	635								
CW2	370	138+74	140+15																	573								
DL1	370	132+10	132+63										65													1		1
DL3	370	135+64	138+19	255											255											4		4
DL2	370	138+19	139+76										265													4		4
DL4	370	143+00	143+50	50											50											1		1
DL5	370	14+60	15+58	98									98													2		2
EL1	370	131+00	143+50	1250			0.48																				64	64
L1	370	131+00	143+50	1250								0.48														32		32
SL1	370	132+24	133+67																171									
SL2	370	138+70	140+19																164									
TOTALS CARRIED TO SHEET 363					0	0	0.48	0.00	0.28	0.00	0.06	0.48	428	0	305	1418	0	0	487	1208	0	29	0	0	23	70	64	157

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (3 of 10)

ERI-250-0.00

356
677

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
A1	371		143+70																			2						
A2	371		148+70																			2						
A3	371	149+86	150+52	66																		2						
A4	371	151+60	154+90	330																		6						
A5	371		156+45																			1						
CH1	371	149+43	150+86	143												143										2		2
CH2	371	151+34	155+00	366												366										5		5
CH3	371	156+33	156+50	17												17										3		3
CL1	371	143+50	150+44	694							0.26														18			18
CL2	371	150+37	155+50	513					0.10																7			7
		156+33	156+50	17																								
CW1	371	148+85	149+44																	108								
CW2	371	155+04	156+29																	480								
DL1	371	143+50	148+60	510											510											7		7
EL1	371	143+50	155+50	1200			0.46																				32	32
LL1	371	143+50	155+50	1200								0.46														31		31
SL1	371	155+00	156+33	133															114									
T1	371	152+02	154+88														114											
IM1	371	156+31	156+37																				48					
A1	372	156+45	158+41																			4						
A2	372	160+61	161+93																			3						
A3	372	163+84	165+83																			3						
A4	372	163+84	165+17																			3						
A5	372		166+35																			2						
A6	372	166+98	167+77																			4						
CH1	372	156+33	158+86	253												253										4		4
CH2	372	159+58	162+07	249												249										4		4
CH3	372	162+80	165+27	247												247										4		4
CH4	372	163+84	165+93	209												209										3		3
CH5	372		166+35													30										3		3
CH6	372	166+88	168+08	120												120										2		2
CH7	372	166+88	168+50	162												162										3		3
CL1	372	156+50	162+95	645							0.12														8			8
CL2	372	162+95	168+50	555					0.11																8			8
CL3	372		166+46	30					0.01																1			1
TOTALS CARRIED TO SHEET 363					0	0	0.46	0.00	0.22	0.00	0.38	0.46	0	0	510	1796	114	0	114	588	0	32	0	48	42	71	32	145

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (4 of 10)

ERI-250-0.00

357
677

10/17/2014 4:26:00 PM

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
CW1	372	159+62	160+23																	80								
CW2	372	162+83	163+44																	80								
CW3	372	166+00	166+81																	149								
DL1	372	158+86	159+60										80												1		1	
DL2	372	162+07	162+77										76												1		1	
DL3	372	165+27	165+80										54												1		1	
EL1	372	156+50	168+50	1200			0.46																				32	32
EL2	372	159+58	160+48	65			0.01																					
EL3	372	162+79	163+70	65			0.01																					
L1	372	156+50	168+50	1200								0.46													31		31	
SL1	372	165+93	166+88																123									
T1	372	159+73	160+37														73											
T2	372	162+94	163+58														73											
T3	372	156+47	163+31															359										
YL1	372	159+66	159+34																		20							
YL2	372	162+87	163+06																		20							
A1	373	168+60	169+37	77																		2						
A2	373		171+64																			1						
A3	373		172+97																			1						
A4	373	174+95	176+27	132																		3						
A5	373		176+64																			1						
A6	373	178+89	179+92	103																		4						
A7	373	178+25	179+57	132																		3						
CH1	373	168+50	169+37	87												87										2		2
CH2	373	171+74	173+15	141												141										2		2
CH3	373	173+88	176+58	270												270										4		4
CH4	373	177+31	180+00	269												269										4		4
CH5	373	178+89	180+00	111												111										2		2
CH6	373	178+49	180+00	151												151										2		2
CL1	373	168+50	178+00	950					0.18																12			12
CL2	373	177+12	180+00	288					0.06																4			4
CW1	373	171+77	172+38																	80								
CW2	373	173+91	174+52																	80								
CW3	373	177+36	177+93																	80								
DL1	373	169+37	176+22	685											685											9		9
DL2	373	173+15	173+69	54									54													1		1
DL3	373	176+58	177+12	54									54													1		1
DL4	373	177+12	178+49	137											137											2		2
EL1	373	168+50	180+00	1150			0.44																					
EL2	373	171+74	172+61				0.01																					
EL3	373	173+88	174+75				0.01																					
EL4	373	177+31	178+18				0.01																					
TOTALS CARRIED TO SHEET 363					0	0	0.95	0.00	0.24	0.00	0.00	0.46	318	0	822	1029	146	359	123	549	40	15	0	0	16	63	32	111

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (5 of 10)

ERI-250-0.00

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677

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REF. NO.	SHEET	STATION		LENGTH	644		644		644			644	644			644	644		644	644	644	644	644		621			
					REMOVAL OF PAVEMENT MARKING	REMOVAL OF PAVEMENT MARKING	EDGE LINE (WHITE)	EDGE LINE (YELLOW)	CENTER LINE (SOLID, DOUBLE)	CENTER LINE (BROKEN, SINGLE)	CENTER LINE (BROKEN-SOLID,DOUBLE)	LANE LINE	DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	CHANNELIZING LINE	TRANSVERSE LINE (WHITE)	TRANSVERSE LINE (YELLOW)	STOP LINE	CROSSWALK LINE	YIELD LINE	LANE ARROW	ISLAND MARKING (WHITE)	ISLAND MARKING (YELLOW)	RPM, YELLOW/YELLOW, 2-WAY	RPM, WHITE/RED, 2-WAY	RPM, WHITE, 1-WAY	RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
L1	373	168+50	180+00	1150								0.44														30		30
T1	373	168+70	170+92	222													120											
T2	373	171+96	172+49														55											
T3	373	174+03	174+66														67											
T4	373	177+46	178+09														67											
YL1	373	171+81	171+99																		20							
YL2	373	173+96	174+13																		20							
YL3	373	177+38	177+56																		20							
A1	374		180+23																			1						
A2	374		180+89																			2						
A3	374	47+13	49+11	198																		11						
A4	374	181+37	181+58																			4						
A5	374	182+23	186+17	394																		7						
A6	374	182+23	184+86	263																		5						
A7	374	186+24	188+21	197																		8						
A8	374		187+88																			1						
A9	374	188+84	188+94																			2						
A10	374		49+26																			2						
A11	374	189+50	191+48																			8						
CH1	374	180+00	180+99	99												198										3		3
CH2	374	180+00	180+32	32												32										3		3
CH3	374	46+96	49+21	225												400										5		5
CH4	374	71' LT	192' LT	121												236										3		3
CH5	374	182+12	186+58	446												446										6		6
CH6	374	182+12	185+19	307												307										4		4
CH7	374	186+95	188+32	137												137										2		2
CH8	374	186+24	188+32	208												208										3		3
CH9	374	186+07	188+32	225												225										3		3
CH10	374		188+99	20												20										3		3
CH11	374	48+60	49+36	76												76										3		3
CH12	374	189+41	191+36	195												195										3		3
CL1	374	180+00	192+50	1250					0.24																16			16
CL2	374	45+34	49+21	387					0.07																5			5
CL3	374	71' LT	192' LT	121					0.02																2			2
CL4	374	48+60	49+36	76					0.01																1			1
CL5	374		188+99	20					0.01																1			1
CW1	374	181+03	182+08																	741								
CW2	374	186+99	187+40																	64								
CW3	374	188+33	189+36																	543								
TOTALS CARRIED TO SHEET 363					0	0	0.00	0.00	0.35	0.00	0.00	0.44	0	0	0	2480	309	0	0	1348	60	51	0	0	25	71	0	96

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (6 of 10)

ERI-250-0.00

359
677

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
DL1	374	180+32	180+93										62													1		1
DL2	374	181+09	181+98										99	174												4		4
DL3	374	184+50	186+07	157											157											2		2
DL4	374	186+58	186+99										48													1		1
DL5	374	191+36	192+50	114									25		89											2		2
EL1	374	180+00	192+50	1250			0.48																				64	64
EL2	374	186+95	187+71	83			0.02																					
LL1	374	180+00	192+50	1250								0.48														32		32
SL1	374	180+99	182+12																205									
SL2	374	188+31	189+40																147									
T1	374	181+41	181+52														79											
T2	374	187+11	187+60														43											
YL1	374	187+04	187+17																		14							
A1	375		193+47																			1						
A2	375	192+94	194+93																			4						
A3	375	48+48	49+24																			2						
A4	375	50+49	52+45																			4						
A5	375	196+36	197+02																			2						
A6	375	196+03	197+35																			3						
A7	375	197+97	201+93																			7						
A8	375	199+60	199+80																			2						
A10	375	0+87	1+38																			7						
A11	375	2+04	4+05																			12						
A9	375	203+60	204+26																			2						
CH1	375	192+65	195+02	237												237										3		3
CH2	375	192+59	194+02	143												87										2		2
CH3	375	50+39	52+83	366												366										5		5
CH4	375	48+48	49+34	142												142										2		2
CH5	375	195+67	197+13	205												205										3		3
CH6	375	195+94	197+42	149												149										2		2
CH7	375	197+70	202+24	623												623										8		8
CH8	375	199+50	199+90	40												40										3		
CH9	375	203+51	204+88	137												137										2		2
CH10	375	0+69	4+67	880												880										11		11
CL1	375	192+50	197+70	520					0.10																7			7
CL2	375	45+89	52+83	694					0.26																18			18
CL3	375	198+05	198+24	191					0.04																3			3
TOTALS CARRIED TO SHEET 363					0	0	0.50	0.00	0.40	0.00	0.00	0.48	234	174	246	2866	122	0	352	0	14	46	0	0	28	83	64	172

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (7 of 10)

ERI-250-0.00

360
677

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING FT	644 REMOVAL OF PAVEMENT MARKING EACH	644 EDGE LINE (WHITE) MI	644 EDGE LINE (YELLOW) MI	644 CENTER LINE (SOLID, DOUBLE) MI	644 CENTER LINE (BROKEN, SINGLE) MI	644 CENTER LINE (BROKEN-SOLID,DOUBLE) MI	644 LANE LINE MI	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP) FT	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP) FT	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP) FT	644 CHANNELIZING LINE FT	644 TRANSVERSE LINE (WHITE) FT	644 TRANSVERSE LINE (YELLOW) FT	644 STOP LINE FT	644 CROSSWALK LINE FT	644 YIELD LINE FT	644 LANE ARROW EACH	644 ISLAND MARKING (WHITE) SQ FT	644 ISLAND MARKING (YELLOW) SQ FT	621 RPM, YELLOW/YELLOW, 2-WAY EACH	621 RPM, WHITE/RED, 2-WAY EACH	621 RPM, WHITE, 1-WAY EACH	621 RAISED PAVEMENT MARKER REMOVED EACH
CW1	375	192+47	193+38	108																108								
CW2	375	193+53	194+09	75																75								
CW3	375	52+87	52+93	83																83								
CW4	375	194+87	196+42	483																483								
CW5	375	197+87	198+44	94																94								
CW6	375	199+34	199+87	70																70								
CW7	375	202+14	203+21	198																198								
DL1	375	192+50	192+58	11									11													1		1
DL2	375	194+02	194+84	86									86													2		2
DL3	375	197+13	197+89	84									84													2		2
DL4	375	201+19	203+51	420+50									264	50												4		4
EL1	375	192+50	205+00	1250			0.48																				32	32
EL2	375	197+70	205+00	730				0.28																				
EL3	375	0+77	5+37	460			0.09																					
EL4	375	0+84	5+37	444				0.08																				
EL5	375	202+13	202+48	168			0.03																					
EL6	375	197+76	198+49	60			0.01																					
EL7	375	199+63	199+67	32				0.01																				
LL1	375	192+50	205+00	1250								0.48														32		32
SL1	375	195+00	196+22	157															157									
SL2	375	202+13	203+50	172															172									
T1	375	192+77	193+29	60													60											
T2	375	194+81	195+26	48													48											
T3	375	195+68	195+99	35													35											
T4	375	195+95	196+11	27													27											
T5	375	197+99	198+38	39													50											
T6	375	199+09	199+67	25													25											
T7	375	201+76	202+22	51													51											
T8	375	202+80	203+01	39													39											
T9	375	203+26	204+54	68													68											
YL1	375	192+72	192+87	16																	16							
YL2	375	193+84	193+97	14																	14							
YL3	375	194+95	195+09	18																	18							
YL4	375	197+93	198+07	18																	18							
YL5	375	199+43	199+55	14																	14							
TOTALS CARRIED TO SHEET 363					0	0	0.61	0.37	0.00	0.00	0.00	0.48	445	50	0	0	403	0	329	1111	80	0	0	0	0	41	32	73

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (8 OF 10)

ERI-250-0.00

361
677

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
		FROM	TO OR AT	FT	FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
A1	376		213+03			3																3						
A2	376		215+15																			2						
CH1	376	213+11	213+36													66										3		3
CL1	376	214+30	219+00	470							0.18														12			12
CW1	376	212+77	213+56																	249								
DL1	376	212+32	213+07										86													2		2
EL1	376	205+00	219+00	1400			0.53																				32	32
EL2	376	205+00	214+30	930				0.35																				
EL3	376	0+31	1+85	154				0.03																				
EL4	376	0+70	1+85	115			0.02																					
LL1	376	205+00	219+00	1400								0.53														35		35
SL1	376	212+40	213+55																141									
T1	376	212+06	212+42															38										
T2	376	213+14	213+27														23											
T3	376	213+88	214+30															60										
A1	377		220+15																			2						
A2	377	222+32	226+28	396																		7						
CL1	377	219+00	221+00	200							0.08														6			6
CL2	377	221+00	226+50	550					0.10																7			7
CW1	377	224+07	224+56																	81								
EL1	377	219+00	226+50	750			0.28																					
LL1	377	219+00	226+50	750								0.28														19		19
A1	378		226+94																			1						
A2	378	371+58	372+24																			4						
A3	378	369+39	370+06																			4						
A4	378	228+25	230+87																			5						
A5	378		233+60																			2						
CH1	378	226+50	227+04	54												54										3		3
CH2	378	228+15	231+25	310												310										4		4
CH3	378	371+48	372+00	52												104										2		2
CH4	378	227+91	228+38													155										2		2
CH5	378	226+89	227+27													127										2		2
CH6	378	369+00	370+26	126												242										4		4
CL1	378	226+50	232+15	565					0.11																8			8
CL2	378	232+15	234+00	185							0.07														5			5
CL3	378	369+00	372+00	300					0.06																4			4
CW1	378	226+80	228+35																	718								
EL1	378	226+50	234+00	750			0.28																				32	32
EL2	378	369+00	372+00	300			0.06																					
LL1	378	226+50	234+00	750								0.28														19		19
SL1	378	226+76	228+38																212									
T1	378	226+96	227+00														11											
T2	378	228+25	228+29														14											
TOTALS CARRIED TO SHEET 363					0	3	1.17	0.38	0.27	0.00	0.33	1.09	86	0	0	1058	48	98	353	1048	0	30	0	0	42	95	64	201

PAVEMENT MARKING SUBSUMMARY (9 OF 10)

CALCULATED LMZ
CHECKED GAB

ERI-250-0.00

362
677

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REF. NO.	SHEET	STATION FROM	STATION TO OR AT	LENGTH	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	644 EDGE LINE (WHITE)	644 EDGE LINE (YELLOW)	644 CENTER LINE (SOLID, DOUBLE)	644 CENTER LINE (BROKEN, SINGLE)	644 CENTER LINE (BROKEN-SOLID,DOUBLE)	644 LANE LINE	644 DOTTED LINE, 4" (WHITE 2' SEG. / 6' GAP)	644 DOTTED LINE, 4" (YEL. 2' SEG. / 6' GAP)	644 DOTTED LINE, 8" (WHITE 3' SEG. / 9' GAP)	644 CHANNELIZING LINE	644 TRANSVERSE LINE (WHITE)	644 TRANSVERSE LINE (YELLOW)	644 STOP LINE	644 CROSSWALK LINE	644 YIELD LINE	644 LANE ARROW	644 ISLAND MARKING (WHITE)	644 ISLAND MARKING (YELLOW)	621 RPM, YELLOW/YELLOW, 2-WAY	621 RPM, WHITE/RED, 2-WAY	621 RPM, WHITE, 1-WAY	621 RAISED PAVEMENT MARKER REMOVED
					FT	EACH	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SQ FT	SQ FT	EACH	EACH	EACH	EACH
A1	379	367+41	368+73	132																		6						
CH1	379	367+05	369+00	195												390										5		5
CL1	379	362+60	369+00	640					0.12																8			8
EL1	379	362+60	369+00	640			0.24																					
T1	379	362+60	366+65	405														81										
A1	380	372+90	373+56																			4						
CH1	380	372+50	373+83	133												266										4		4
CL1	380	372+50	378+93	643					0.12																8			8
CL2	380	376+76	376+78	16					0.01																1			1
EL1	380	372+50	378+93	643			0.24																					
SL1	380	376+62	376+76	14															14									
T1	380	374+54	376+42															94										
T2	380	377+06	378+38															19										
TOTALS THIS SHEET					0	0	0.48	0.00	0.25	0.00	0.00	0.00	0	0	0	656	0	194	14	0	0	10	0	0	17	9	0	26
TOTALS CARRIED FROM SHEET 354					832	10	0.92	0.00	0.20	0.00	0.70	0.94	425	548	0	867	0	0	243	1131	0	24	0	0	47	62	0	109
TOTALS CARRIED FROM SHEET 355					0	0	0.86	0.00	0.30	0.00	0.26	0.84	65	0	240	1742	136	0	150	1365	18	36	0	63	39	91	64	194
TOTALS CARRIED FROM SHEET 356					0	0	0.48	0.00	0.28	0.00	0.06	0.48	428	0	305	1418	0	0	487	1208	0	29	0	0	23	70	64	157
TOTALS CARRIED FROM SHEET 357					0	0	0.46	0.00	0.22	0.00	0.38	0.46	0	0	510	1796	114	0	114	588	0	32	0	48	42	71	32	145
TOTALS CARRIED FROM SHEET 358					0	0	0.95	0.00	0.24	0.00	0.00	0.46	318	0	822	1029	146	359	123	549	40	15	0	0	16	63	32	111
TOTALS CARRIED FROM SHEET 359					0	0	0.00	0.00	0.35	0.00	0.00	0.44	0	0	0	2480	309	0	0	1348	60	51	0	0	25	71	0	96
TOTALS CARRIED FROM SHEET 360					0	0	0.50	0.00	0.40	0.00	0.00	0.48	234	174	246	2866	122	0	352	0	14	46	0	0	28	83	64	172
TOTALS CARRIED FROM SHEET 361					0	0	0.61	0.37	0.00	0.00	0.00	0.48	445	50	0	0	403	0	329	1111	80	0	0	0	0	41	32	73
TOTALS CARRIED FROM SHEET 362					0	3	1.17	0.38	0.27	0.00	0.33	1.09	86	0	0	1058	48	98	353	1048	0	30	0	0	42	95	64	201
TOTALS CARRIED TO TRAFFIC CONTROL GENERAL SUMMARY, SHEET 351					832	13	7.18		4.24			5.67	2773		2123	13912	1929		2165	8348	212	273	111		1287			1284

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING SUBSUMMARY (10 OF 10)

ERI-250-0.00

363
677

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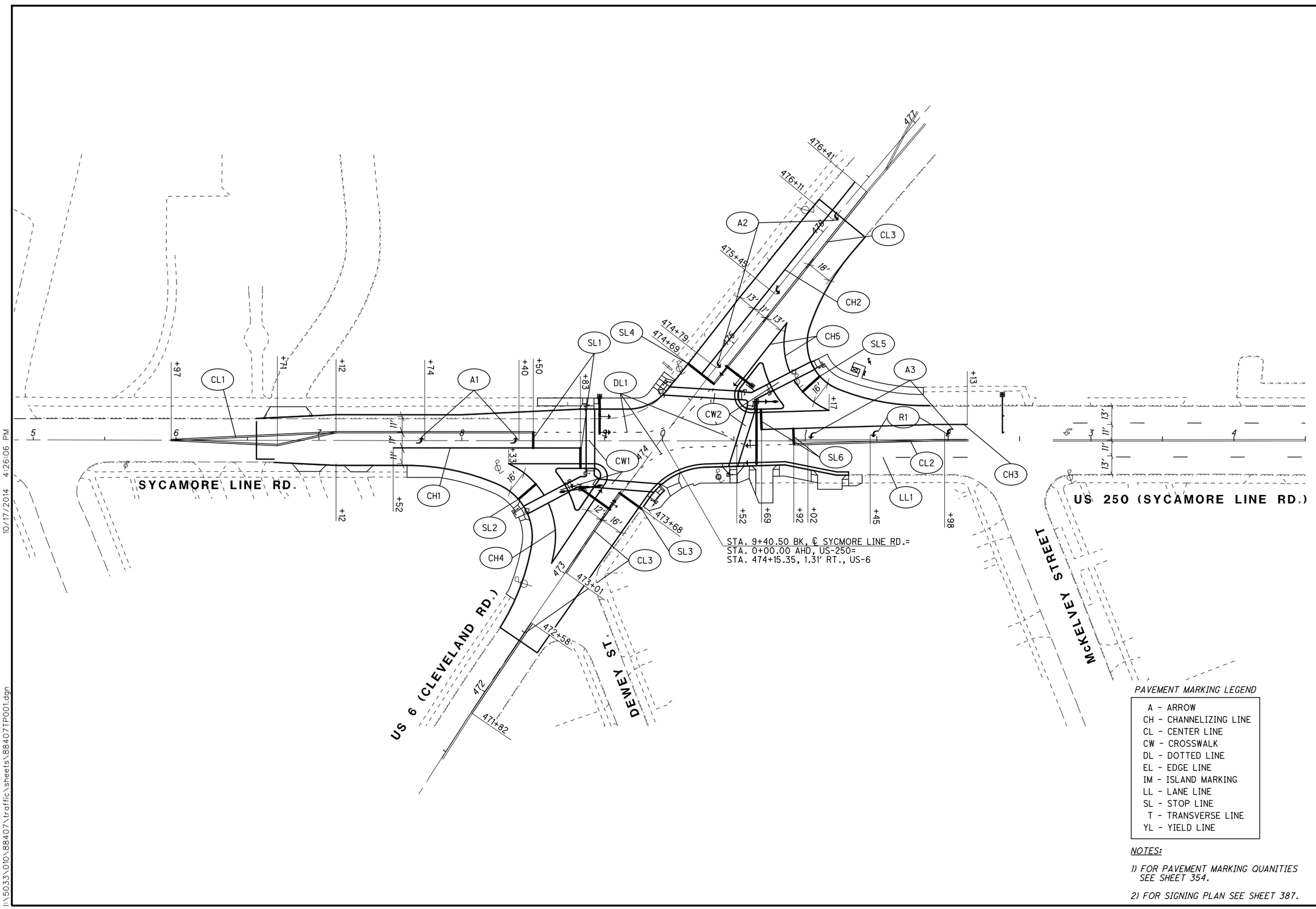

PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 354.

2) FOR SIGNING PLAN SEE SHEET 387.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
SYCAMORE ROAD (US 250)

ERI-250-0.00

364
677

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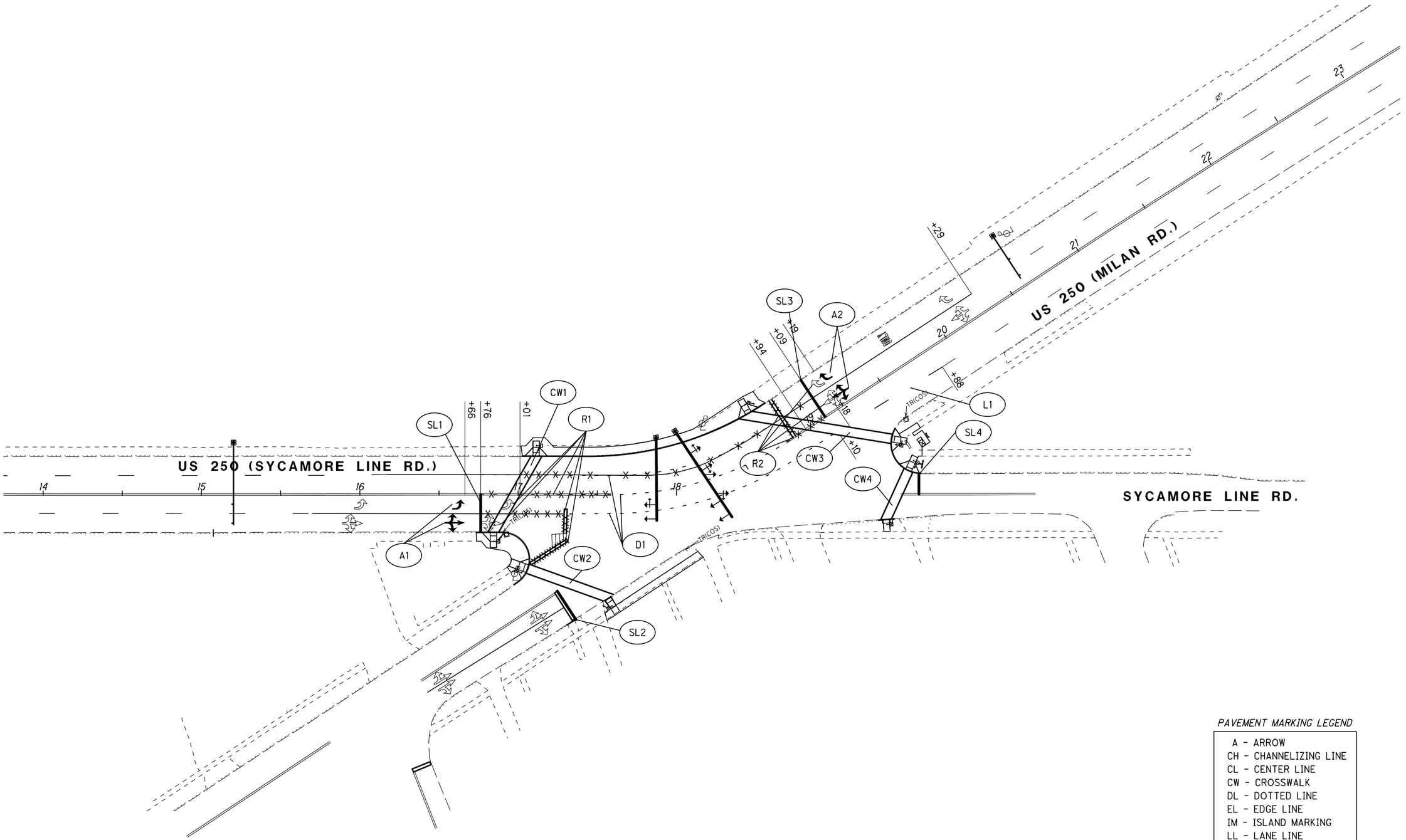

PAVEMENT MARKING LEGEND

A	ARROW
CH	CHANNELIZING LINE
CL	CENTER LINE
CW	CROSSWALK
DL	DOTTED LINE
EL	EDGE LINE
IM	ISLAND MARKING
LL	LANE LINE
SL	STOP LINE
T	TRANSVERSE LINE
YL	YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 354.

2) FOR SIGNING PLAN SEE SHEET 388.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED | CHECKED

PAVEMENT MARKING PLAN
SYCAMORE ROAD (US 250)

ERI-250-0.00

365
677

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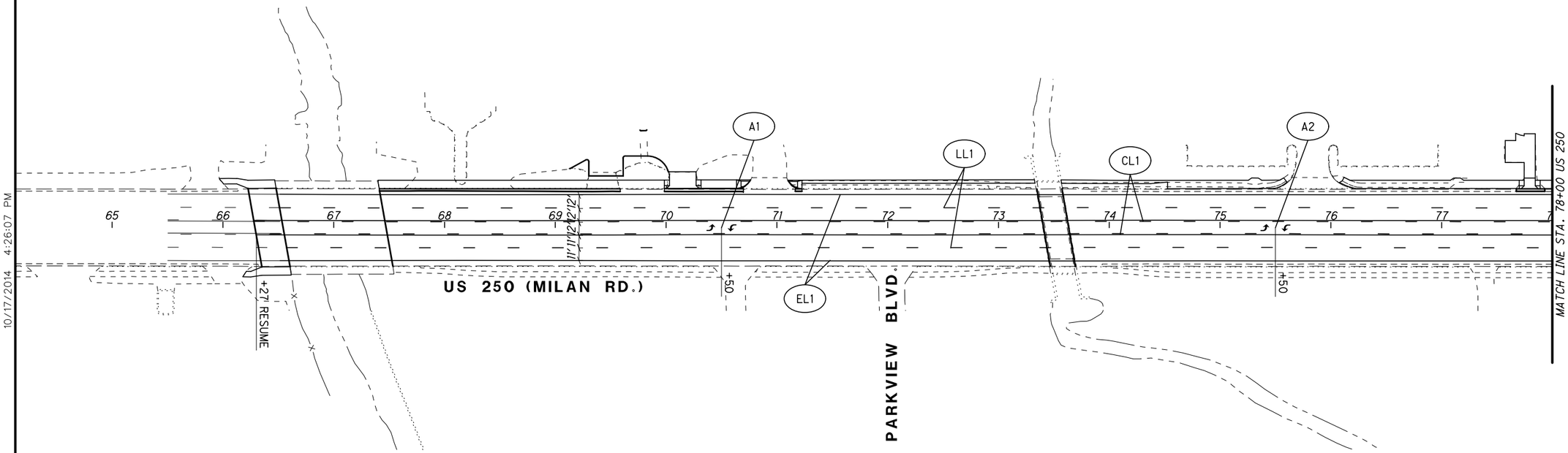

PAVEMENT MARKING LEGEND

A	ARROW
CH	CHANNELIZING LINE
CL	CENTER LINE
CW	CROSSWALK
DL	DOTTED LINE
EL	EDGE LINE
IM	ISLAND MARKING
LL	LANE LINE
SL	STOP LINE
T	TRANSVERSE LINE
YL	YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 354.

2) FOR SIGNING PLAN SEE SHEET 389.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED | CHECKED

PAVEMENT MARKING PLAN
STA. 65+50 to STA. 78+00

ERI-250-0.00

366
677

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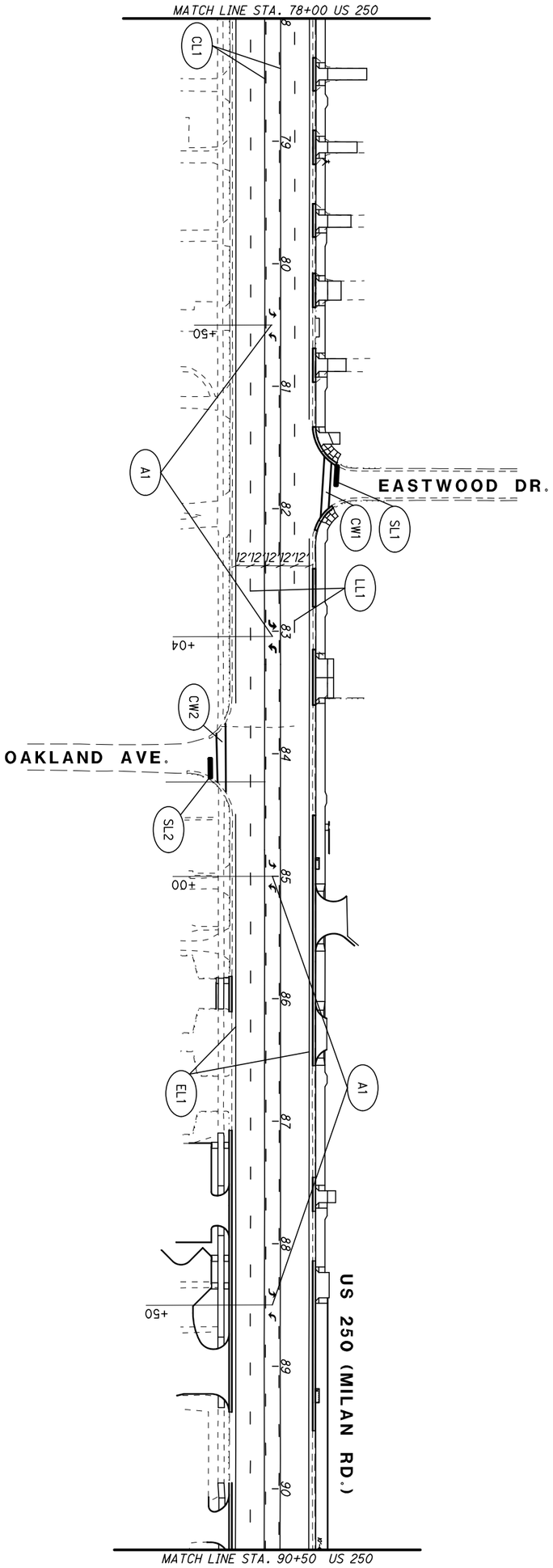


PAVEMENT MARKING LEGEND

A	- ARROW
CH	- CHANNELIZING LINE
CL	- CENTER LINE
CW	- CROSSWALK
DL	- DOTTED LINE
EL	- EDGE LINE
IM	- ISLAND MARKING
LL	- LANE LINE
SL	- STOP LINE
T	- TRANSVERSE LINE
YL	- YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 354-355.

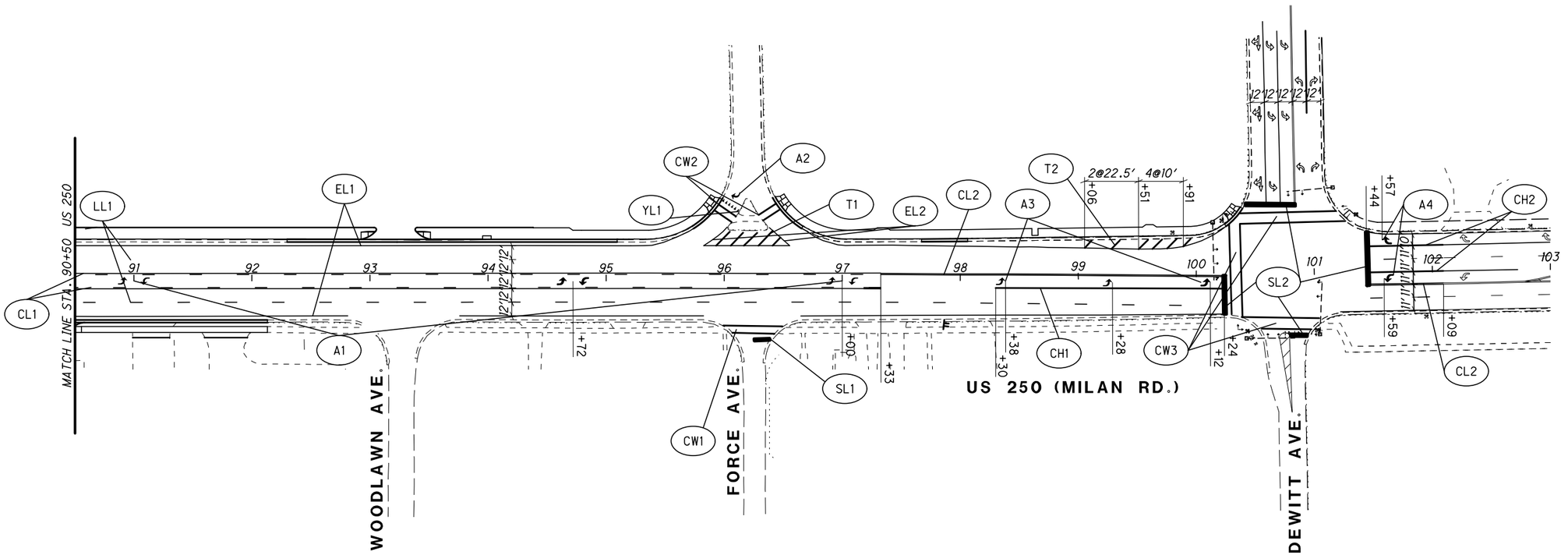
2) FOR SIGNING PLAN SEE SHEET 390.

ERI-250-0.00

PAVEMENT MARKING PLAN
STA. 78+00 to STA. 90+50

CALCULATED LMZ
CHECKED GAB

0 50
25 100
HORIZONTAL SCALE IN FEET



PAVEMENT MARKING LEGEND

A	- ARROW
CH	- CHANNELIZING LINE
CL	- CENTER LINE
CW	- CROSSWALK
DL	- DOTTED LINE
EL	- EDGE LINE
IM	- ISLAND MARKING
LL	- LANE LINE
SL	- STOP LINE
T	- TRANSVERSE LINE
YL	- YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 355.

2) FOR SIGNING PLAN SEE SHEET 391.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
STA. 90+50 TO STA. 103+00

ERI-250-0.00

368
677

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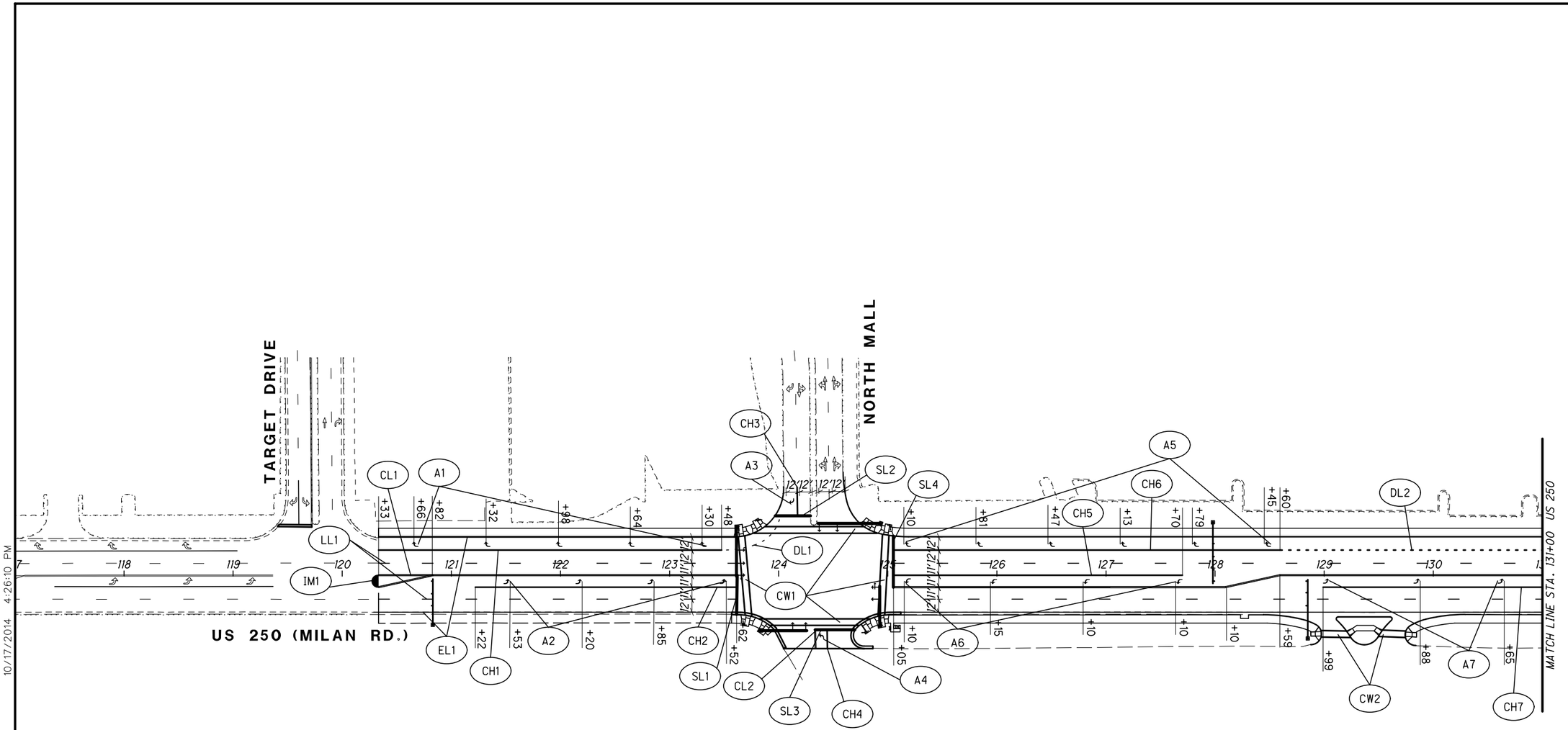

PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEETS 355-356.

2) FOR SIGNING PLAN SEE SHEET 392.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
STA. 119+00 TO STA. 131+00

ERI-250-0.00

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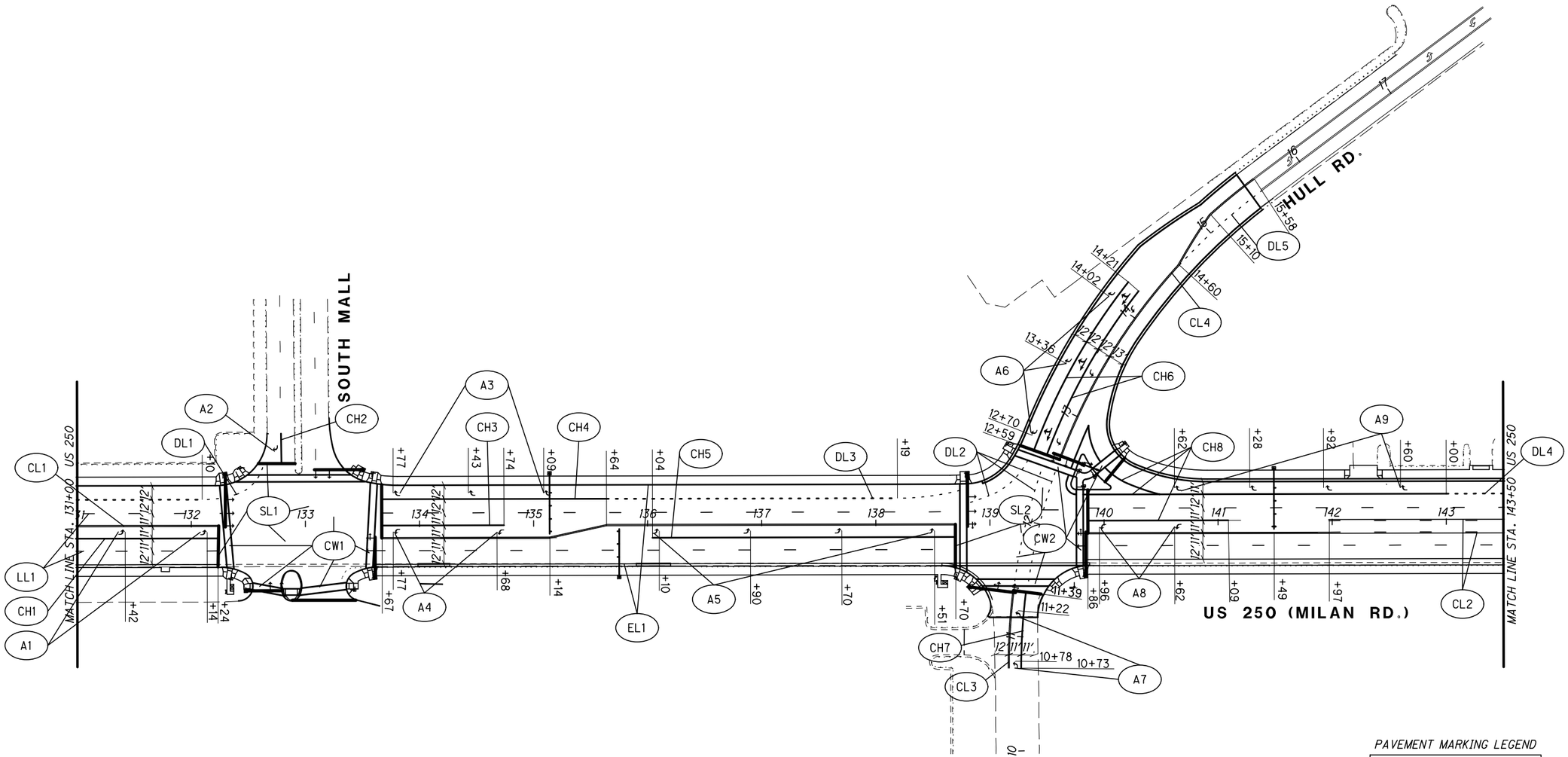

PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 356.

2) FOR SIGNING PLAN SEE SHEET 393.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
STA. 131+00 TO STA. 143+50

ERI-250-0.00

370
677

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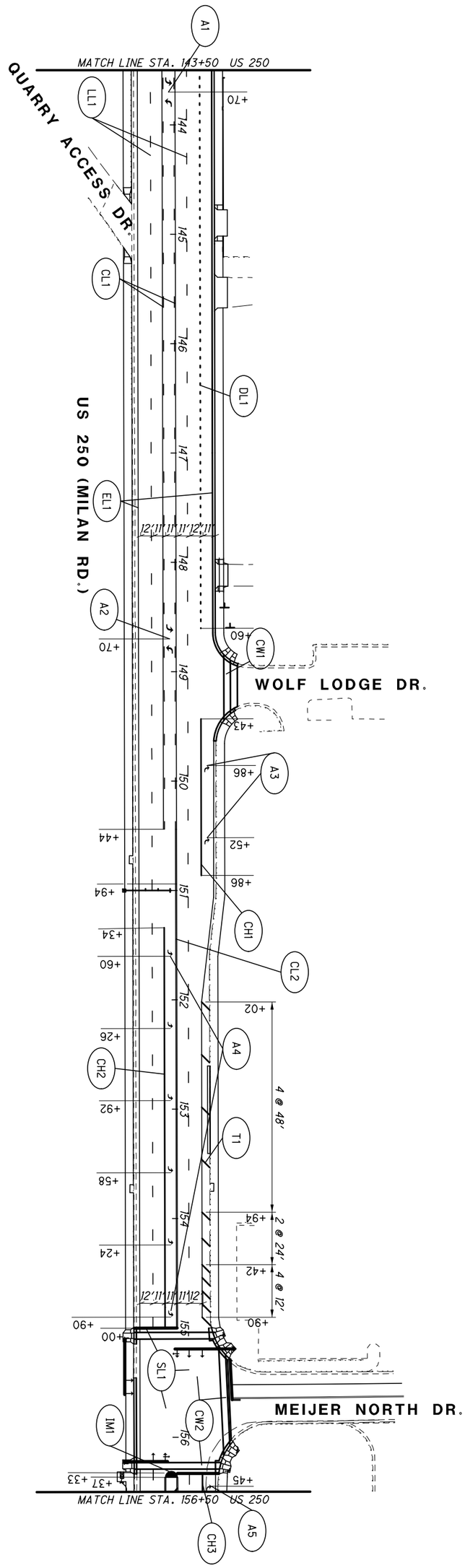


PAVEMENT MARKING LEGEND

A	ARROW
CH	CHANNELIZING LINE
CL	CENTER LINE
CW	CROSSWALK
DL	DOTTED LINE
EL	EDGE LINE
IM	ISLAND MARKING
LL	LANE LINE
SL	STOP LINE
T	TRANSVERSE LINE
YL	YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANTITIES SEE SHEET 357.

2) FOR SIGNING PLAN SEE SHEET 394.

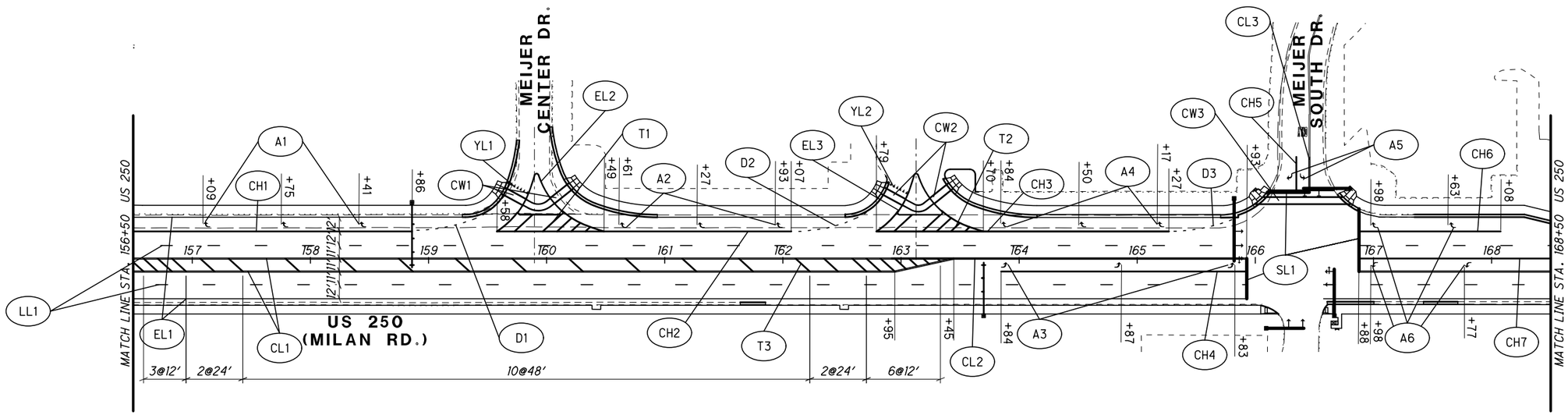
371
677

ERI-250-0.00

PAVEMENT MARKING PLAN
STA. 143+50 TO STA. 156+50

CALCULATED LMZ
CHECKED GAB

0 50
25 100
HORIZONTAL SCALE IN FEET



PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEETS 357-358.

2) FOR SIGNING PLAN SEE SHEET 395.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
STA. 156+50 TO STA. 168+50

ERI-250-0.00

372
677

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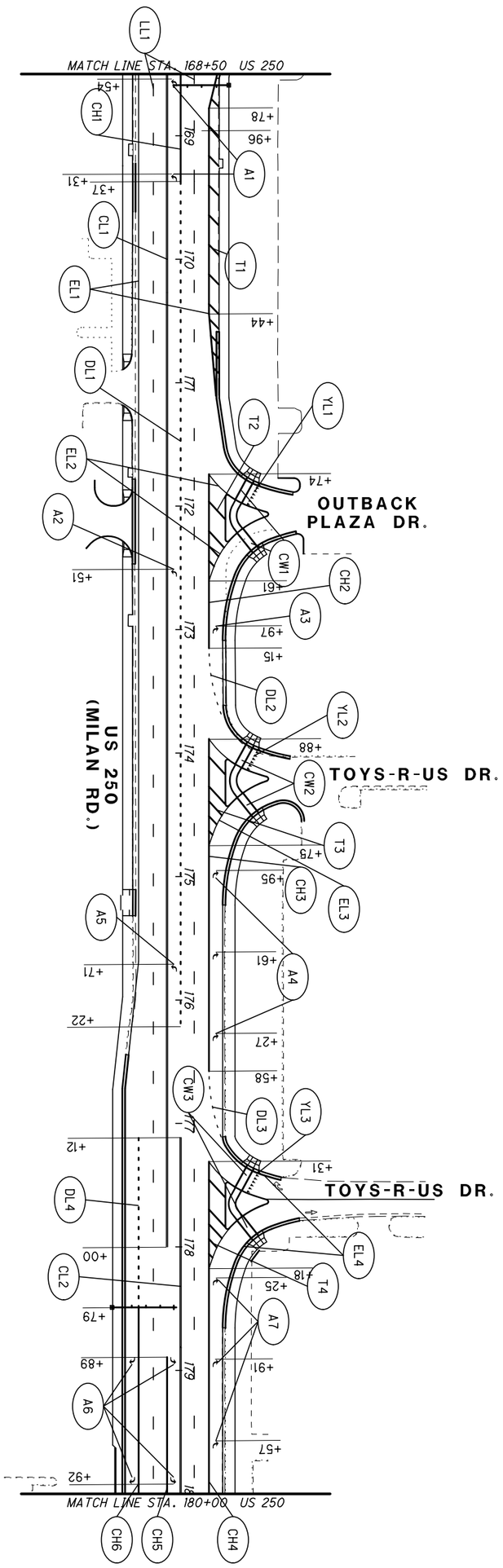


PAVEMENT MARKING LEGEND

A	ARROW
CH	CHANNELIZING LINE
CL	CENTER LINE
CW	CROSSWALK
DL	DOTTED LINE
EL	EDGE LINE
IM	ISLAND MARKING
LL	LANE LINE
SL	STOP LINE
T	TRANSVERSE LINE
YL	YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEETS 358-359.

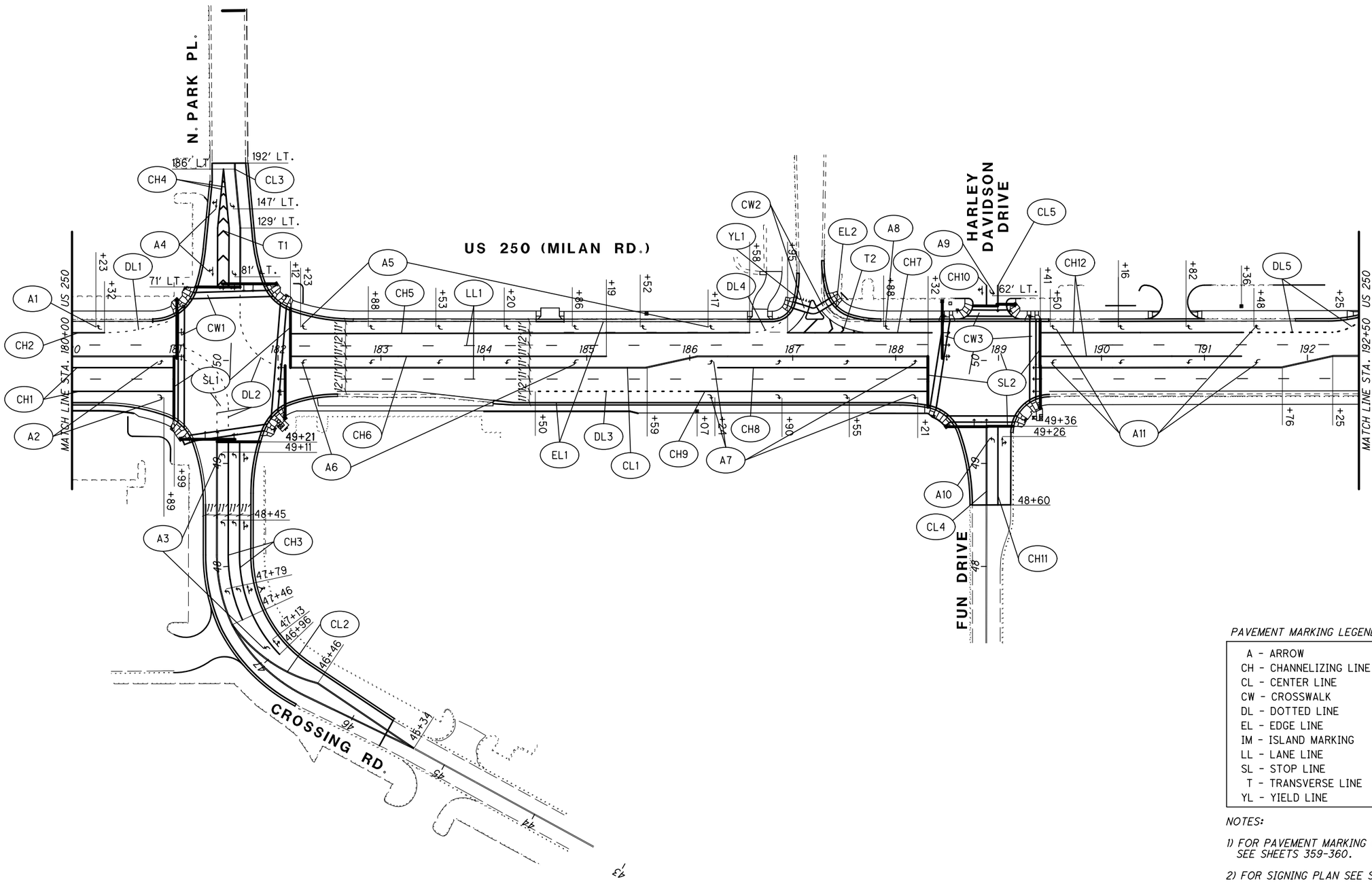
2) FOR SIGNING PLAN SEE SHEET 396.

ERI-250-0.00

PAVEMENT MARKING PLAN
STA. 168+50 TO STA. 180+00

CALCULATED LMZ
CHECKED GAB

0 50
25 100
HORIZONTAL SCALE IN FEET



PAVEMENT MARKING LEGEND

A	- ARROW
CH	- CHANNELIZING LINE
CL	- CENTER LINE
CW	- CROSSWALK
DL	- DOTTED LINE
EL	- EDGE LINE
IM	- ISLAND MARKING
LL	- LANE LINE
SL	- STOP LINE
T	- TRANSVERSE LINE
YL	- YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEETS 359-360.

2) FOR SIGNING PLAN SEE SHEET 397.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
STA. 180+00 TO STA. 192+50

ERI-250-0.00

374
677

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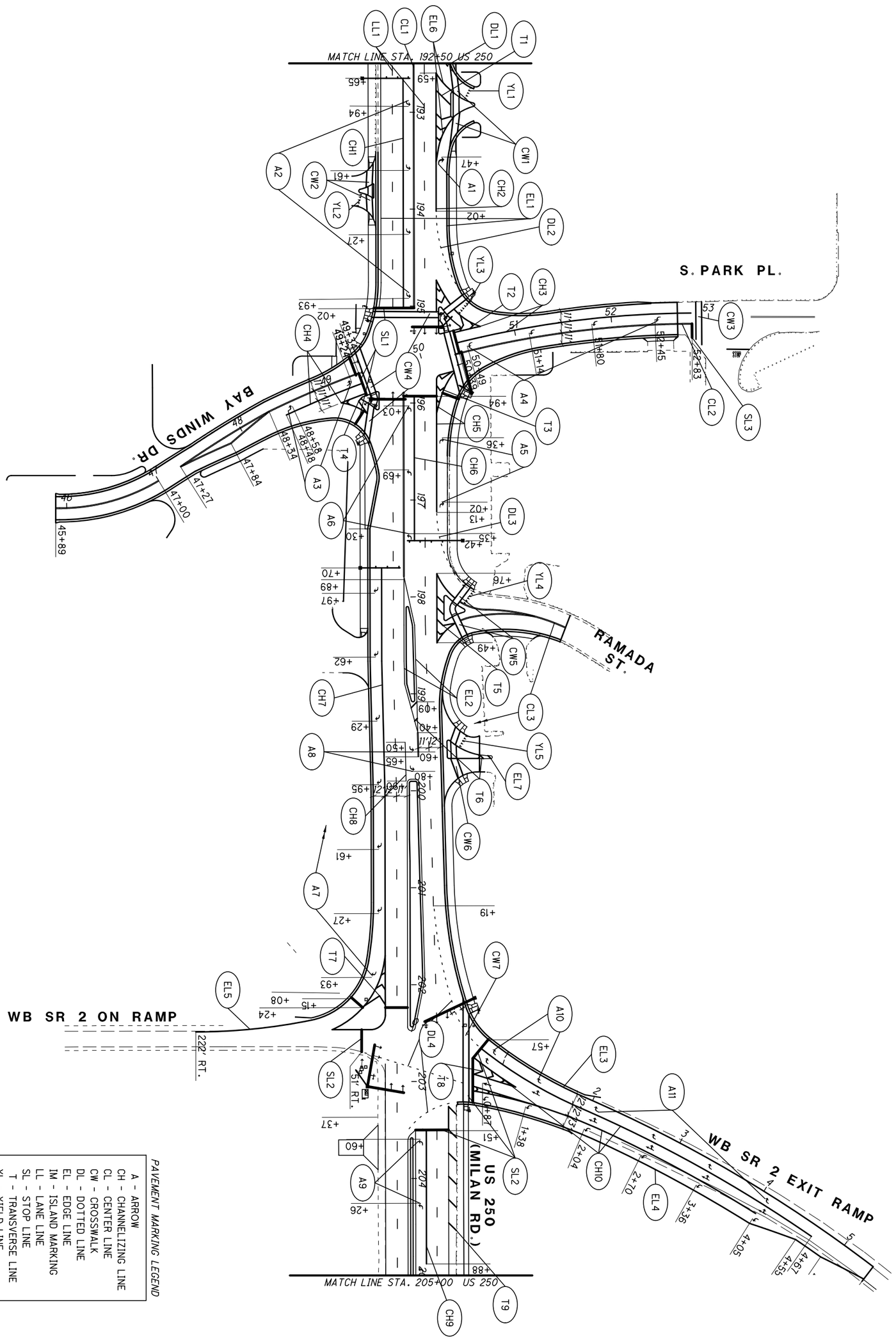


PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANTITIES SEE SHEETS 360-361.

2) FOR SIGNING PLAN SEE SHEET 398.

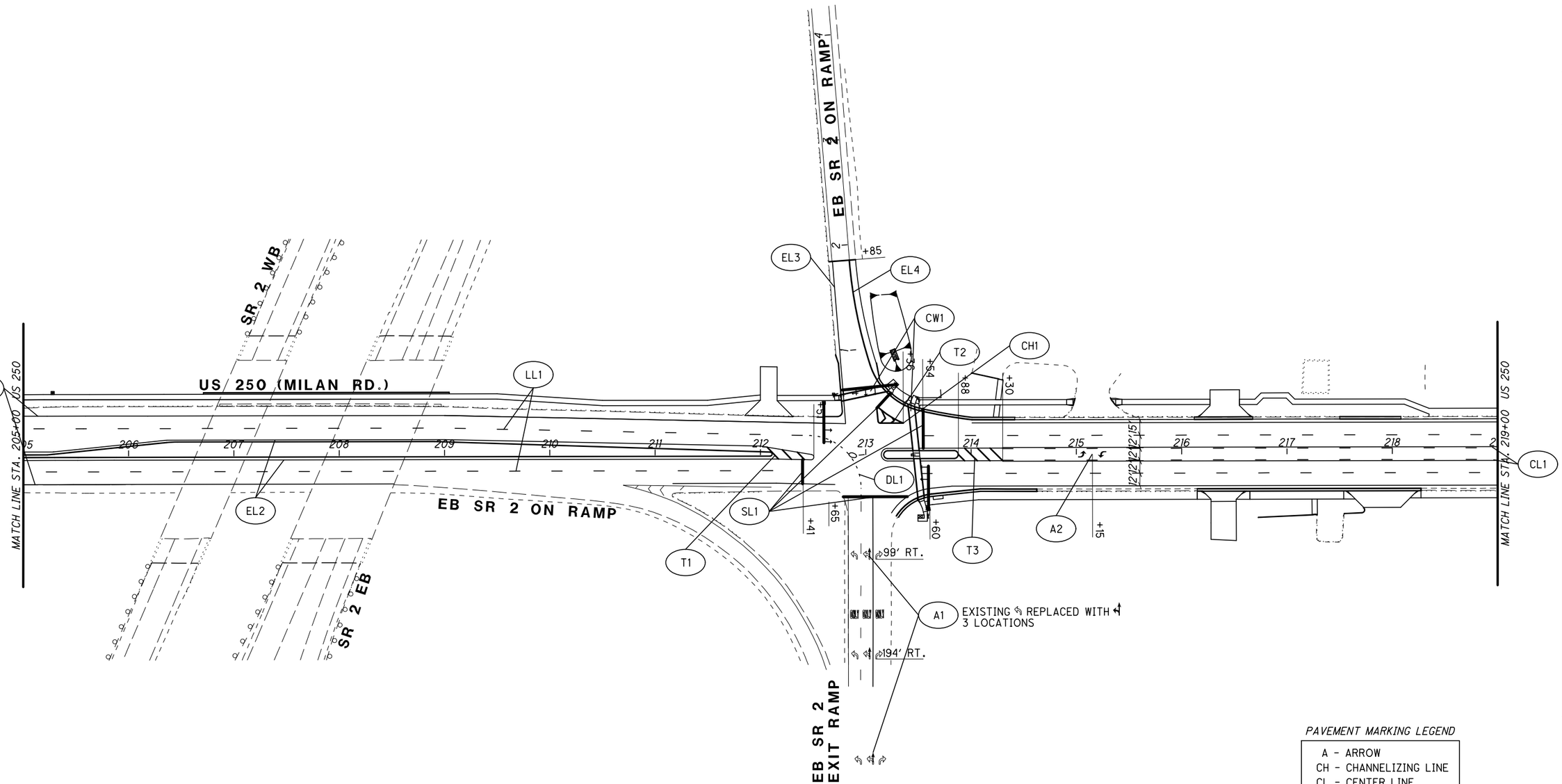
375
677

ERI-250-0.00

PAVEMENT MARKING PLAN
STA. 192+50 TO STA. 205+00

CALCULATED LMZ
CHECKED GAB

0 25 50 100
HORIZONTAL SCALE IN FEET



PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 362.

2) FOR SIGNING PLAN SEE SHEET 399.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

PAVEMENT MARKING PLAN
STA. 205+00 TO STA. 219+00

ERI-250-0.00

376
677

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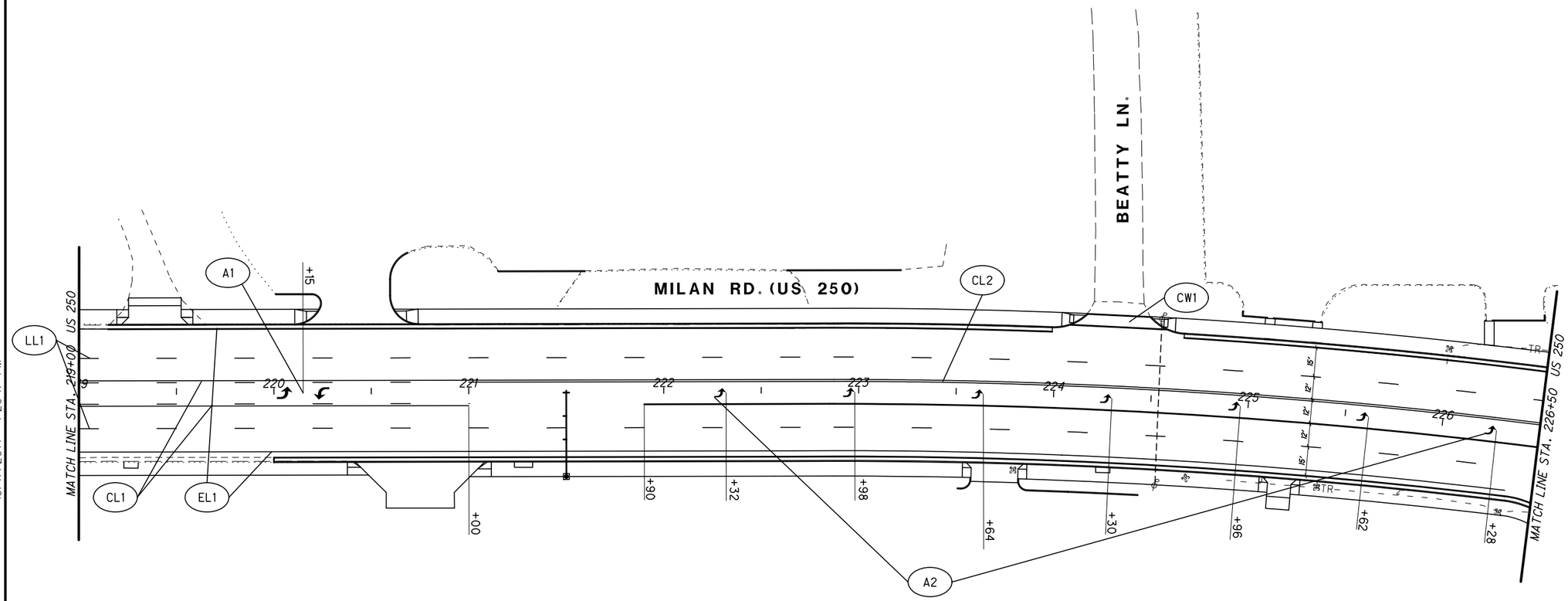

PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 362.

2) FOR SIGNING PLAN SEE SHEET 400.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED | CHECKED

PAVEMENT MARKING PLAN
STA. 219+00 TO STA. 226+50

ERI-250-0.00

377
677

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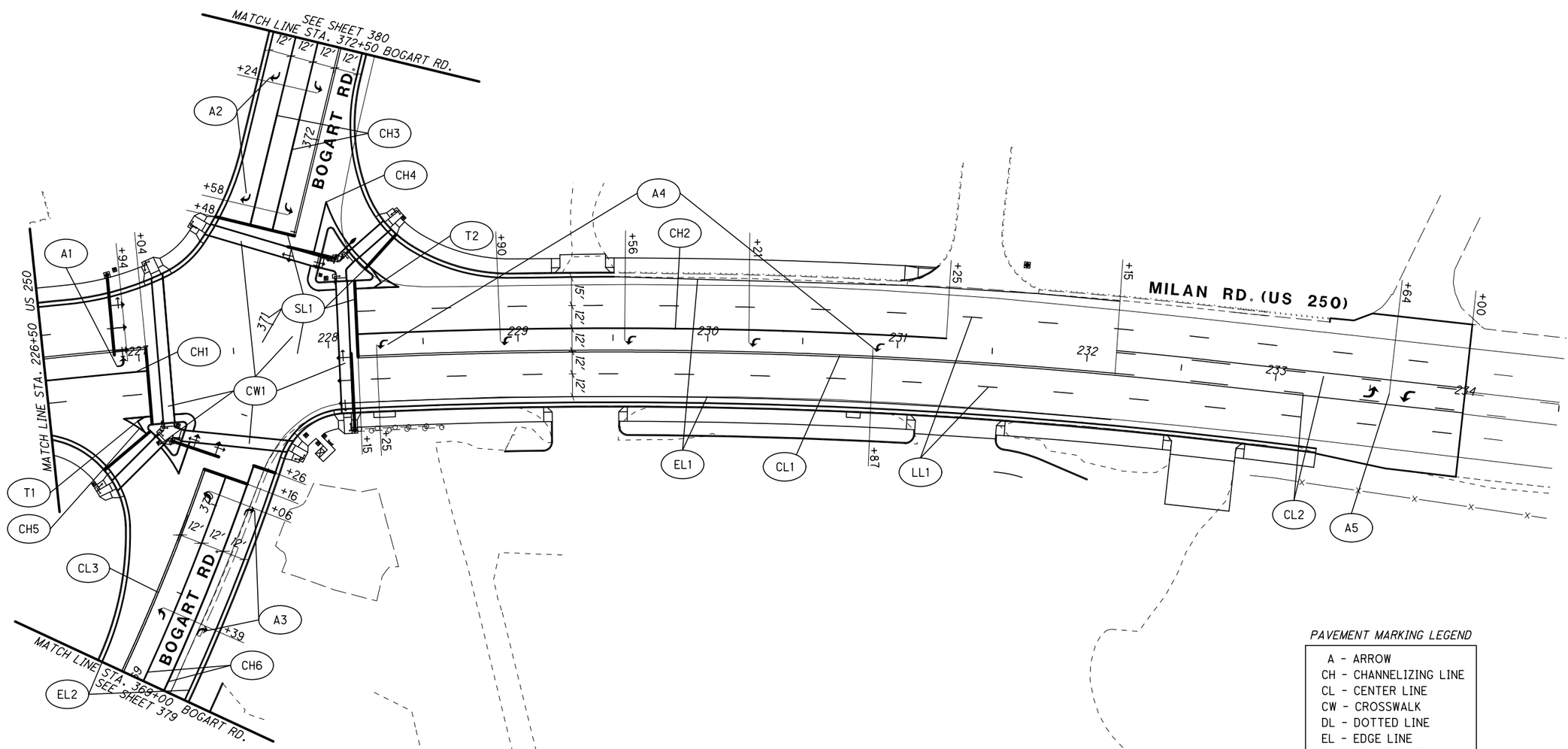

PAVEMENT MARKING LEGEND

A - ARROW
CH - CHANNELIZING LINE
CL - CENTER LINE
CW - CROSSWALK
DL - DOTTED LINE
EL - EDGE LINE
IM - ISLAND MARKING
LL - LANE LINE
SL - STOP LINE
T - TRANSVERSE LINE
YL - YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 362.

2) FOR SIGNING PLAN SEE SHEET 401.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED | CHECKED

PAVEMENT MARKING PLAN
STA. 226+50 TO STA. 234+50

ERI-250-0.00

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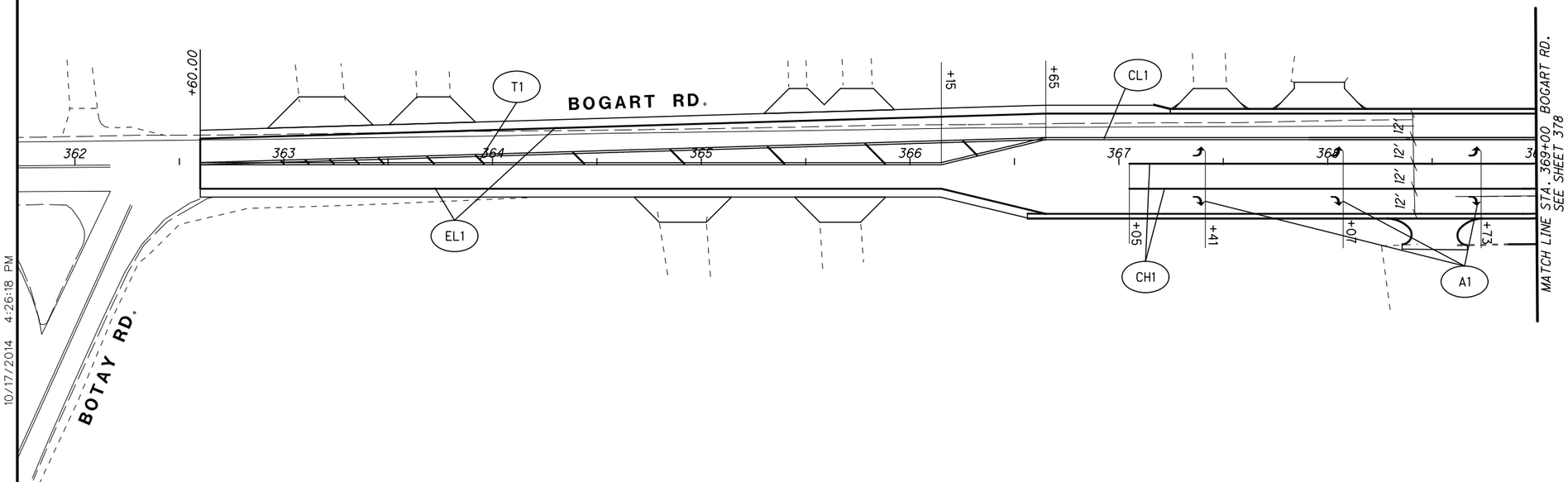

PAVEMENT MARKING LEGEND

A	ARROW
CH	CHANNELIZING LINE
CL	CENTER LINE
CW	CROSSWALK
DL	DOTTED LINE
EL	EDGE LINE
IM	ISLAND MARKING
LL	LANE LINE
SL	STOP LINE
T	TRANSVERSE LINE
YL	YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 363.

2) FOR SIGNING PLAN SEE SHEET 402.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED | CHECKED

PAVEMENT MARKING PLAN
STA. 362+00 TO STA. 369+00

ERI-250-0.00

379
677

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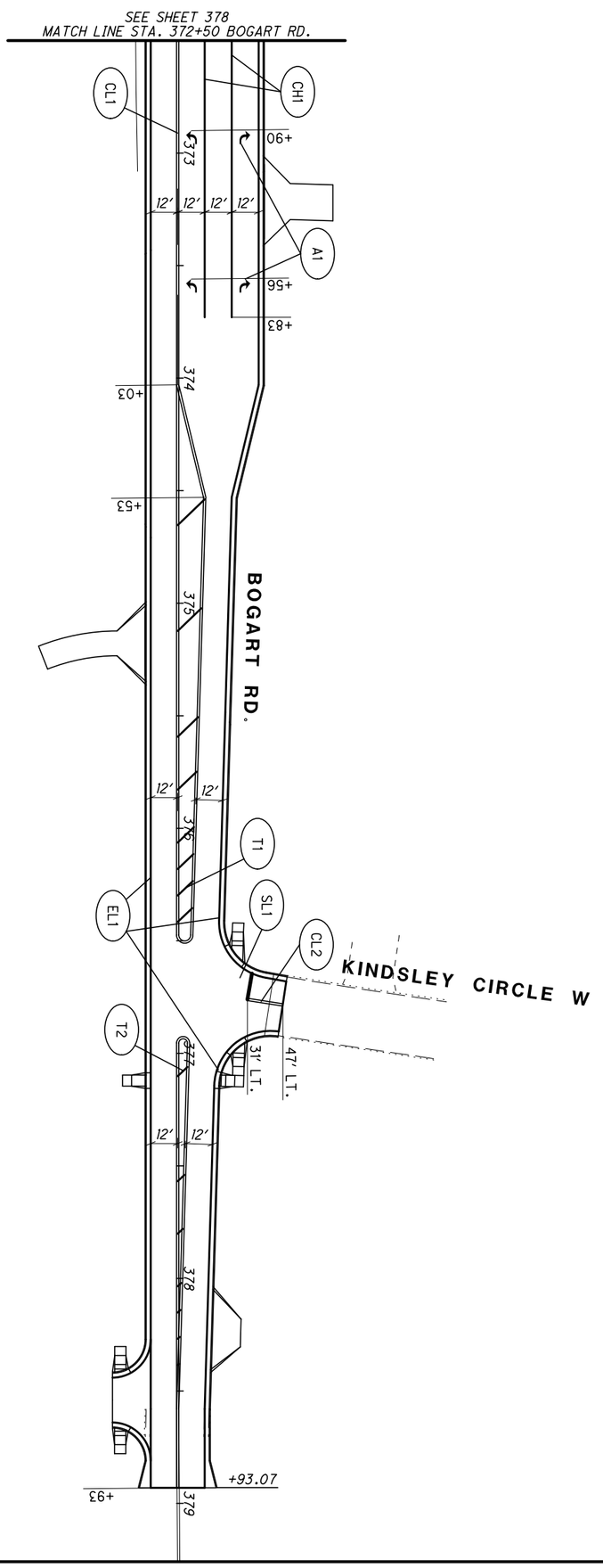

PAVEMENT MARKING LEGEND

A	- ARROW
CH	- CHANNELIZING LINE
CL	- CENTER LINE
CW	- CROSSWALK
DL	- DOTTED LINE
EL	- EDGE LINE
IM	- ISLAND MARKING
LL	- LANE LINE
SL	- STOP LINE
T	- TRANSVERSE LINE
YL	- YIELD LINE

NOTES:

1) FOR PAVEMENT MARKING QUANITIES SEE SHEET 363.

2) FOR SIGNING PLAN SEE SHEET 403.

380
677

ERI-250-0.00

PAVEMENT MARKING PLAN
STA. 371+00 TO STA. 379+00

CALCULATED LMZ
CHECKED GAB

0 15 30 60
HORIZONTAL SCALE IN FEET

N

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET SQ FT	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT		630 GROUND MOUNTED SUPPORT, NO. 4 (TYPE S) FT	630 GROUND MOUNTED SUPPORT, NO. 6 POST FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12 FT	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EACH	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION EACH	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10 EACH	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL EACH
387	S1	SYCAMORE LINE RD	6+75	RT	R3-H8bh	36 x 30			13.0								1						
	S2	SYCAMORE LINE RD	8+36	RT															1	1			
	S3	US 250	WIRE																		2		
	S4	US 250	0+05	LT	M1-4	24 x 24			13.8							1			1				
		US 250			M6-4	21 x 15										1							
	S5	US 250	1+13	LT	R1-2	24 x 24			13.0							2			2				
					R5-1	30 x 30										2							
387	S6	US 250	0+66	LT	M3-2	24 x 12			15.0							1			1				
					M1-4	30 x 24										1							
					M6-1	21 x 15										1							
	S7	US 250	1+83	LT	M4-6	24 x 12			13.0								1						
					M1-4	30 x 24											1						
	S8	SYCAMORE LINE RD	8+30	RT	M3-4	21 x 15			30.0								1						
					M1-4	30 x 24											1						
					M5-2	21 x 15											1						
					M8-H1	24 x 24			14.0								1						
					M5-2	21 x 15											1						
	S9	US 250	0+39	RT	M4-14	24 x 12	2.0								1								
					M1-4	30 x 24	5.0																
	S10	US 250	POLE	LT	SEE 412																		
	S11	US 250	1+00	LT	R10-15R	30 x 30	6.3	13.0															
						30 x 30	6.3	13.0															
	S12	SYCAMORE LINE RD	8+30	RT	R10-15R	30 x 30	6.3	13.0															
			8+70	RT	R10-15R	30 x 30	6.3	13.0															
388	S1	US 250	19+44	RT	R10-H6BL	24 x 30			13.0							1			1				
	S2	US 250	17+02	RT	D3-1														1	1			
	S3	US 250	18+41	LT														2					
389	S1	US 250	72+21	RT	R1-1	30 x 30	6.3				15.0								1	1			
					D3-1A	51 x 12	8.5																
					D3-1	54 x 12	9.0																
	S2	US 250	74+90	LT	R7-1	12 x 18	1.5	12.0									1						
390	S1	US 250	81+51	LT															1	1			
	S2	US 250	81+61	LT	R1-1	30 x 30					15.0					1			1				
					D3-1A	51 x 12	8.5																
					D3-1	51 x 12	8.5																
	S3	US 250	84+28	RT	R1-1	30 x 30					15.0												
					D3-1A	51 x 12	8.5																
					D3-1	45 x 12	7.5																
	S4	US 250	79+80	LT	R7-1	12 x 18		12.0									1						
	S5	US 250	82+40	LT	R7-1	12 x 18		12.0									1						
390	S6	US 250	83+80	LT	R20-1	18 x 24		12.5									1						
	S7	US 250	84+00	LT	R7-1	12 x 18		12.0									1						
391	S1	US 250	96+21	LT	SEE 415		21.0		52.0														
	S2	US 250	93+52	RT	R1-1	30 x 30					15.0					1			1	1			
					D3-1A	51 x 12	8.5																
					D3-1	54 x 12	9.0																
	S3	US 250	96+46	RT	R1-1	30 x 30					15.0					1			1				
					D3-1A	51 x 12	8.5																
					D3-1	36 x 12	6.0																
	S4	US 250	101+00	RT	D3-1A	51 x 12	8.5				13.5												
					D3-1	42 x 12	7.0																
	S5	US 250	100+35	LT	D3-1A	51 x 12	8.5				12.5												
					D3-1	42 x 12	7.0									1							
TOTALS CARRIED TO SHEET 386							174	113	177	0	101	0	0	0	1	14	13	2	12	5	2	0	0

CALCULATED LMZ
CHECKED GAB

SIGN SUBSUMMARY (1 OF 6)

ERI-250-0.00

381
677

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 (TYPE S)	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
							SQ FT	FT	FT		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
391	S6	US 250	94+72	LT	R2-1	18 x 24		12.5								1							
	S7	US 250	95+83	RT															1	1			
	S8	US 250	96+20	LT															2	2			
	S9	US 250	97+90	RT					26.0							1			1				
	S10	US 250	95+83	LT															1	1			
392	S1	US 250	122+25	RT	R3-H8CG	48 x 30													2	1			
	S2	US 250	126+20	LT	R3-H8DA	54 x 30													2	1			
	S3	US 250	130+75	RT	R3-H8CG	48 x 30													2	1			
	S4	US 250	121+00	LT	R3-7	30 x 30			13.0							1							
	S5	US 250	121+50	LT	R7-1	12 x 18		12.0								1							
392	S6	US 250	123+90	LT	R10-H6B	24 x 30			13.0							1							
	S7	US 250	126+50	RT	R7-1	12 x 18		12.0								1							
	S8	US 250	129+37	RT	SEE SHT 415		21.0		52.0														
	S9	US 250	123+83	RT	SEE SH 412	66 x 24																	
	S10	US 250	124+88	LT	SEE SH 412	66 x 24																	
393	S1	US 250	132+10	LT	R3-7	30 x 30	6.3		13.0														
	S2	US 250	132+55	LT	R10-H6BL	24 x 30			13.0							1			1				
	S3	US 250	134+40	LT	R3-7	30 x 30			13.0							1			1				
	S4	US 250	134+80	LT	R3-H8DA	54 x 30													1	1			
	S5	US 250	134+90	RT															2	1			
393	S6	US 250	137+30	RT	R3-H8CG	48 x 30													2	1			
	S7	US 250	138+19	LT	R3-7	30 x 30	6.3		13.0														
	S8	US 250	138+30	LT															2	1			
	S9	US 250	138+50	RT															2	1			
	S10	US 250	138+74	LT	R3-H8BG														1	1			
393	S11	HULL RD	13+57	LT	R12-1	24 x 30			13.0							1			1				
	S12	HULL RD	13+40	LT	R3-H8CJ	48 x 30	10.0		26.0														
	S13	HULL RD	14+24	LT															1	1			
	S14	HULL RD	14+47	LT	R3-H8CJ	48 x 30	10.0		26.0														
	S15	US 250	141+35	LT	R3-H8DA	54 x 30													1	1			
393	S16	US 250	142+96	LT															1	2			
	S17	US 250	143+23	RT															1	2			
	S18	US 250	137+40	LT															1	1			
	S19	US 250	132+87	RT	R4-7	12 x 18	3.0	24.0															
	S20	US 250	132+45	RT	SEE SH 412	66 x 24																	
393	S21	US 250	133+50	LT	SEE SH 412	66 x 24																	
	S22	US 250	138+84	RT	SEE SH 412	66 x 24																	
	S23	US 250	139+82	LT	SEE SH 412	66 x 24																	
	S24	US 250	137+40	LT		12 x 18			12.0							1			1				
	S25	US 251	139+92	LT	R10-15R	30 x 30	12.5	13.0															
			140+25	LT	R10-15R	30 x 30	12.5	13.0															
394	S1	US 250	148+41	LT	R10-7	24 x 30			13.0							1			1				
	S2	US 250	148+54	LT	R3-7	30 x 30	6.3		13.0														
	S3	US 250	POLE	RT	SEE SH 412	66 x 24													1	1			
	S4	US 250	155+29	LT	R1-1														1	1			
	S5	US 250	150+82	LT															1	1			
394	S6	US 250	150+19	LT															1	2			
	S7	US 250	153+40	RT															1	1			
	S8	US 250	145+31	LT															1	1			
TOTALS CARRIED TO SHEET 386							88	87	259	0	0	0	0	0	0	11	0	0	37	27	0	0	0

CALCULATED LMZ
CHECKED GAB

SIGN SUBSUMMARY (2 OF 6)

ERI-250-0.00

382
677

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 (TYPE S)	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
							SQ FT	FT	FT		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
395	S1	US 250	157+50	RT	M4-5	24 x 12			15.0							1			2				
					M1-H5C	24 x 24										1							
					M5-4	24 x 18										1							
					M4-5	24 x 12			15.0							1							
					M1-5-2	24 x 24										1							
					M5-6	24 x 18										1							
	S2	US 250	158+00	LT															1	1			
	S3	US 250	159+20	LT															1	1			
	S4	US 250	159+50	LT															1	1			
	S5	US 250	159+28	RT	R3-2	36 x 36	9.0	13.5															
395	S6	US 250	159+91	LT	SEE SHT 415		21.0		52.0														
	S7	US 250	159+61	LT															1	1			
	S8	US 250	162+30	LT	D14-H4	48 x 30			26.0							1			2				
	S9	US 250	162+90	LT	R3-2	24 x 24		12.5											1	1			
	S10	US 250	162+82	LT	SEE SHT 415		21.0		52.0														
395	S11	US 250	163+11	LT															1	2			
	S12	US 250	163+29	LT															1	1			
	S13	US 250	167+97	LT															1	1			
	S14	US 250	166+15	RT	SEE SH 412	66 x 24																	
	S15	US 250	166+82	LT	SEE SH 412	66 x 24																	
	S16	US 250	164+57	RT	R2-1	18 x 24										1			1				
396	S1	US 250	171+22 &173+60	RT	R3-2	36 x 36	18.0	27.0															
	S2	US 250	171+80	LT															1	1			
	S3	US 250	172+04	LT	SEE SHT 415		21.0		52.0														
	S4	US 250	172+90	LT	R3-7	30 x 30			13.0							1			1				
	S5	US 250	173+61	LT															1	1			
396	S6	US 250	173+91	LT	R1-2	36 x 36													1	1			
	S7	US 250	174+23	LT	SEE SHT 415		21.0		52.0														
	S8	US 250	174+73	LT															1	1			
	S9	US 250	175+30	LT	R2-1	18 x 24		12.5								1			1				
	S10	US 250	175+95	RT	R3-9B	24 x 36			13.5										1	1			
396	S11	US 250	176+69	LT	R3-7	30 x 30	6.3		13.0														
	S12	US 250	175+95	LT															1	1			
	S13	US 250	176+41	RT	R3-H8DA	54 x 30													1	1			
	S14	US 250	177+32	LT															1	2			
	S15	US 250	177+20	LT	SEE SHT 415		21.0		52.0														
396	S16	US 250	177+70	LT				12.0								1			1				
	S17	US 250	179+30	LT	R2-1	18 x 24		12.5								1			1				
397	S1	US 250	180+30	LT	R3-7	30 x 30			13.0							1			1				
	S2	CROSSING RD	48+19	RT															1	1			
	S3	CROSSING RD	47+40	RT	R3-H8CN	48 x 30	10.0		26.0										1	1			
	S4	CROSSING RD	49+24	RT															1	1			
	S5	US 250	182+70	LT	R3-7	30 x 30			13.0							1			1				
397	S6	US 250	186+07	LT	R3-H8DA	54 x 30													1	1			
	S7	US 250	184+20	RT	R3-7	30 x 30			13.0							1			1				
	S8	US 250	184+80	RT	R2-1	18 x 24		12.5								1			1				
	S9	US 250	185+50	LT															1	1			
	S10	US 250	187+00	LT	SEE SHT 415		21.0		52.0														
TOTALS CARRIED TO SHEET 386							169	103	473	0	0	0	0	0	0	16	0	0	34	23	0	0	0

CALCULATED LMZ
CHECKED GAB

SIGN SUBSUMMARY (3 OF 6)

ERI-250-0.00

383
677

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 (TYPE S)	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
							SQ FT	FT	FT		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
397	S11	US 250	186+76	RT	R3-H8DA	54 x 30													1	1			
	S12	US 250	187+38	LT				12.0								1		1	1				
	S13	US 250	188+29	RT	R3-H8DA	54 x 30													1	1			
	S14	US 250	190+96	LT	R3-H8DA	54 x 30													1	1			
	S15	FUN DR	49+47	RT												1			1				
397	S16	US 250	192+40, +59	RT															2	3			
	S17	US 250	191+61	LT															1	1			
	S18	US 250	186+96	LT															1	2			
	S19	US 250	POLE	RT	SEE SHT 412	66 x 24																	
	S20	US 250	POLE	LT	SEE SHT 412	66 x 24																	
397	S21	US 250	POLE	RT	SEE SHT 412	66 x 24																	
	S22	US 250	POLE	LT	SEE SHT 412	66 x 24																	
398	S1	US 250	193+35	RT															1	1			
	S2	US 250	193+40	RT	R7-1	12 x 18		12.0								1			1				
	S3	US 250	195+40	RT															2	1			2
	S4	US 250	195+60	RT	W14-2	24 x 24		12.5								1			1	1			
	S5	US 250	194+02	LT	R3-7	30 x 30	6.3		13.0														
398	S6	S. PARK PL	52+55	LT	R3-H8BH	36 x 30	7.5		13.0														
	S7	BAY WINDS DR	48+18	RT	R3-H8BH	36 x 30	7.5		13.0														
	S8	US 250	195+96	RT	SEE SHT 412	66 x 24																	
	S9	US 250	197+74	RT															2	2			
	S10	US 250	201+20	RT	R7-1	12 x 18		12.0								1			1				
398	S11	US 250	202+05	RT															1	1			
	S12	S. PARK PL	51+22&51+41	RT															1	1			
	S13	US 250	197+17	LT	R3-7	30 x 30			13.0							1			1				
	S14	US 250	197+67	LT															2	3			
	S15	US 250	197+86	LT															1	1			
398	S16	US 250		LT	SEE SHT 415		21.0		52.0														
	S17	US 250	198+72	LT															2	2			
	S18	US 250	198+92	LT	R2-1	18 x 24		12.5								1			1				
	S19A	US 250	198+96	LT, CL	R3-2	36 x 36			13.5							1			1				
	S19B	US 250	199+67	LT	SEE SHT 415		21.0		52.0														
	S19C	US 250	198+90	CL	R3-20L	24 x 36	6.0		13.5														
	S19D	US 250	200+00	CL	R3-2	36 x 36	9.0		13.5														
	S20	US 250	201+10	LT	M3-4	24 x 12			13.5							1			1				
					M1-4	30 x 24																	
398	S21	US 250	202+16	LT															1	1			
	S22	US 250	202+20	LT	M3-4	24 x 12		23.0								1			1				
					M1-4	24 x 24																	
					M6-1	21 x 15																	
					D1-1BL	72 x 12																	
	S23	US 250	202+70	LT	R5-1	30 x 30			26.0							1			2				
				LT																1			
				LT	R6-1L	36 x 12										2							
		US 250	203+30	LT	R5-1	30 x 30			26.0							1			2				
				LT																1			
				LT	R6-1L	36 x 12										2							
	S24	RAMP B	2+99	LT															1	1			
	S25	RAMP B	4+04	LT&RT	R3-H8CJ	48 x 30	10.0		26.0														
	S26	RAMP B	1+71	LT&RT	R5-1A	30 x 18		24.0								1			2				
	S27	US 250		LT	SEE SHT 415		21.0		52.0														
	S28	US 250	198+61	RT	R3-2	36 x 36			13.5							1			1				
TOTALS CARRIED TO SHEET 386							109	108	354	0	0	0	0	0	0	18	0	1	38	26	0	0	2

CALCULATED LMZ
CHECKED GAB

SIGN SUBSUMMARY (4 OF 6)

ERI-250-0.00

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677

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 (TYPE S)	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
							SQ FT	FT	FT		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
398	S29	US 250	198+77	LT	D3-1A	51 x 12	8.5				12.5													
					D3-1	45 x 12	7.5																	
	S30	US 250	198+31	RT	R4-7b	24 x 30			13.0							1			1					
398	S31	US 250		RT	SEE SHT 415		21.0		52.0															
	S32	US 250	198+95	RT	R9-3	18 x 18	2.3	11.5																
	S33	US 250	202+08	RT	R9-3	24 x 24	4.0	12.5																
	S34	US 250	203+37	RT	R9-3	24 x 24	4.0	12.5																
	S35	US 250	POLE	LT	SEE SHT 412	66 x 24																		
	S36	US 250	194+80	LT	R10-15R	30 x 30	6.3	13.0																
		US 250	195+18	LT	R10-15R	30 x 30	6.3	13.0																
	S37	US 250	196+03	LT	R10-15R	30 x 30	6.3	13.0																
	S38	US 250	195+95	RT	R10-15R	30 x 30	6.3	13.0																
		US 250	196+30	RT	R10-15R	30 x 30	6.3	13.0																
	S39	US 250	202+20	RT					17.5				38.0	2.0		7			2					2
399	S1	US 250	205+73&206+03	LT	R3-H8CB	48 x 30													4	2				
	S2	US 250	206+03	RT	R3-2	24 x 24		12.5								1								
	S3	US 250	209+02	LT	M3-4	24 x 12													1	1				
					M1-4	24 x 24														1				
					M5-1	21 x 15														1				
	S4	US 250	212+52	LT	D3-H1B	48 x 8			17.5				38.0	2.0		1			2					
					D7-H1	72 x 24										1								
					M2-H7	66 x 24										1								
					M6-1	21 x 15										1								
					M1-H5C	24 x 24										1								
					M4-5	24 x 12										1								
						24 x 24										1								
	S5	US 250	214+12	RT	M3-2	24 x 12			27.0							1			1					
					M1-4	30 x 24										1								
					M4-5	24 x 12										1			1					
					M1-H5C	24 x 24										1								
					M6-3	21 x 15										1								
	S6	US 250	215+15	RT	R3-9B	24 x 36			13.5							1			1					
	S7	US 250	216+00	RT	R2-1	18 x 24		12.5								1			1					
	S8	US 250	213+41	LT	R10-15R	30 x 30	6.3	13.0																
	S9	US 250	212+00		R4-7	24 x 30			13.0							1			1					
	S10	US 250	213+21		R4-7b	24 x 30			13.0							1			1					
	S11	US 250	213+84		R4-7b	24 x 30			13.0							1			1					
	S12	US 250	212+65	RT	R9-3	24 x 24	4.0	12.5																
	S13	US 250	212+65	RT	R9-3	24 x 24	4.0	12.5																
	S14	US 250	213+60	RT	R9-3	18 x 18	2.3		13.5															
					R9-3BP	18 x 12	1.5																	
	S15	US250	213+32	LT	E9-H13	48 X 120						38.0				1			2					
400	S1	US 250	221+16	LT	M2-H7	66 x 24			25.0							1			2					
	S2	US 250	221+88	LT	R3-9B	24 x 36			13.5							1			1					
	S3	US 250	222+60	RT															1	2				
	S4	US 250	223+94	LT	M2-1	21 x 12			14.0							2			1					
					M1-5	30 x 30																		
	S5	US 250	223+96	LT												1			2	1				
	S6	US 250	224+12	LT	R1-1	30 x 30					15.0					1			1					
					D3-1A	51 x 12	8.5																	
					D3-1	39 x 12	6.5																	
	S7	US 250	224+54	RT																	4	2		
	S8	US 250	224+57	RT															2	1				
	S9	US 250	225+90	LT	M3-4	24 x 12			13.5							1			1					
					M1-4	30 x 24										1								
TOTALS CARRIED TO SHEET 386							112	165	259	0	28	38	76	4	0	35	0	0	30	9	4	2	2	

CALCULATED LMZ
CHECKED GAB

SIGN SUBSUMMARY (5 OF 6)

ERI-250-0.00

385
677

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST		630 GROUND MOUNTED SUPPORT, NO. 4 (TYPE S)	630 GROUND MOUNTED SUPPORT, NO. 6 POST	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND REERECTION	630 REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
							SQ FT	FT	FT		FT	FT	FT	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
401	S1	US 250	228+10	LT	M1-4	30 x 24													1	2			
					M6-4	21 x 15																	
	S2	US 250	229+00	LT	R7-4	12 x 18		12.0								1			1				
	S3	US 250	228+25&228+14	RT	OM4-1	18 x 18	4.5	25.2															
	S4	US 250	230+65	LT															2	2			
	S5	US 250	231+85	RT	R3-9B	24 x 36			15.5							2			2				
					R7-1	18 x 24																	
401	S6	US 250	230+95	LT	R7-1	18 x 24		12.5								1			1				
	S7	US 250	227+94	RT															1	1			
	S8	NOT USED																					
	S9	US 250	226+80	LT	R2-1	18 x 24		12.5								1			1				
	S10	US 250	226+80	RT					13.5							1			1	1			
401	S11	US 250	227+50	LT															2	1			
	S12	US 250	227+14	RT	SEE SH 412	66 x 24																	
	S13	US 250	228+06	LT	SEE SH 412	66 x 24																	
	S14	US 250	226+67	RT		30 x 30	6.3	13.0															
		US 250	227+04	RT		30 x 30	6.3	13.0															
	S15	US 250	228+19	LT		30 x 30	6.3	13.0															
		US 250	228+48	LT		30 x 30	6.3	13.0															
	S16	US 251	231+04	LT															2	1			
402	S1	BOGART RD	366+57	RT	R3-8B	48 x 30	10.0		26.0										1	1			
	S2	BOGART RD	366+65	LT	W2-2	24 x 24			12.5							2			1				
403	S1	BOGART RD	374+03	LT	R3-8B	48 x 30	10.0		26.0														
	S2	BOGART RD	376+59	LT	R1-1	36 x 36	9.0		13.5										1	1			
TOTALS THIS SHEET							59	114	107		0	0	0	0	0	8	0	0	17	10	0	0	0
TOTALS CARRIED FROM SHEET 381							174	113	177		101	0	0	0	1	14	13	2	12	5	2	0	0
TOTALS CARRIED FROM SHEET 382							88	87	259		0	0	0	0	0	11	0	0	37	27	0	0	0
TOTALS CARRIED FROM SHEET 383							169	103	473		0	0	0	0	0	16	0	0	34	23	0	0	0
TOTALS CARRIED FROM SHEET 384							109	108	354		0	0	0	0	0	18	0	1	38	26	0	0	2
TOTALS CARRIED FROM SHEET 385							112	165	259		28	38	76	4	0	35	0	0	30	9	4	2	2
TOTALS CARRIED TO TRAFFIC CONTROL GENERAL SUMMARY, SHEET 351							711	688	1628		129	38	76	4	1	102	13	3	168	100	6	2	4

CALCULATED LMZ
CHECKED GAB

SIGN SUBSUMMARY (6 OF 6)

ERI-250-0.00

386
677

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SIGNING PLAN
SYCAMORE ROAD (US 250)

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED LMZ
CHECKED GAB

ERI-250-0.00

387
677

SYCAMORE LINE RD.

US 250 (SYCAMORE LINE RD.)

US 6 (CLEVELAND RD.)

DEWEY ST.

McKELVEY STREET

SYCAMORE LINE RD

CLEVELAND RD

DEWEY ST

FINCH ST

S1 RELOCATED TO STA. 6+75

S2

S3 MOUNTED ON OVERHEAD WIRES ABOVE INTERSECTION

S4 RELOCATED TO STA. 0+05

S5 RELOCATED TO STA. 0+77 & STA. 1+13

S6 RELOCATED TO STA. 0+66

S7 RELOCATED TO STA. 1+83 SIGNAL POLE MOUNTED

S8 RELOCATED TO STA. 8+30

S9 BEGIN M4-14-24-3 M1-4-24-3 STA. 0+39

S10 M2-H7-66

S11 TURNING VEHICLES TO R10-15R-30

S12 R10-ISR-30 TURNING VEHICLES

R3-6R-30

R3-5L-30 ONLY

THROUGH TRUCKS PROHIBITED

NO PARKING THIS SIDE OF STREET

THROUGH TRAFFIC KEEP RIGHT

DO NOT BLOCK INTERSECTION

TRUCK ROUTE

SIGN LEGEND

SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)

SPEED LIMIT 35 — EXISTING SIGN TO BE REMOVED

SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGNING QUANITIES SEE SHEET 381.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 364.

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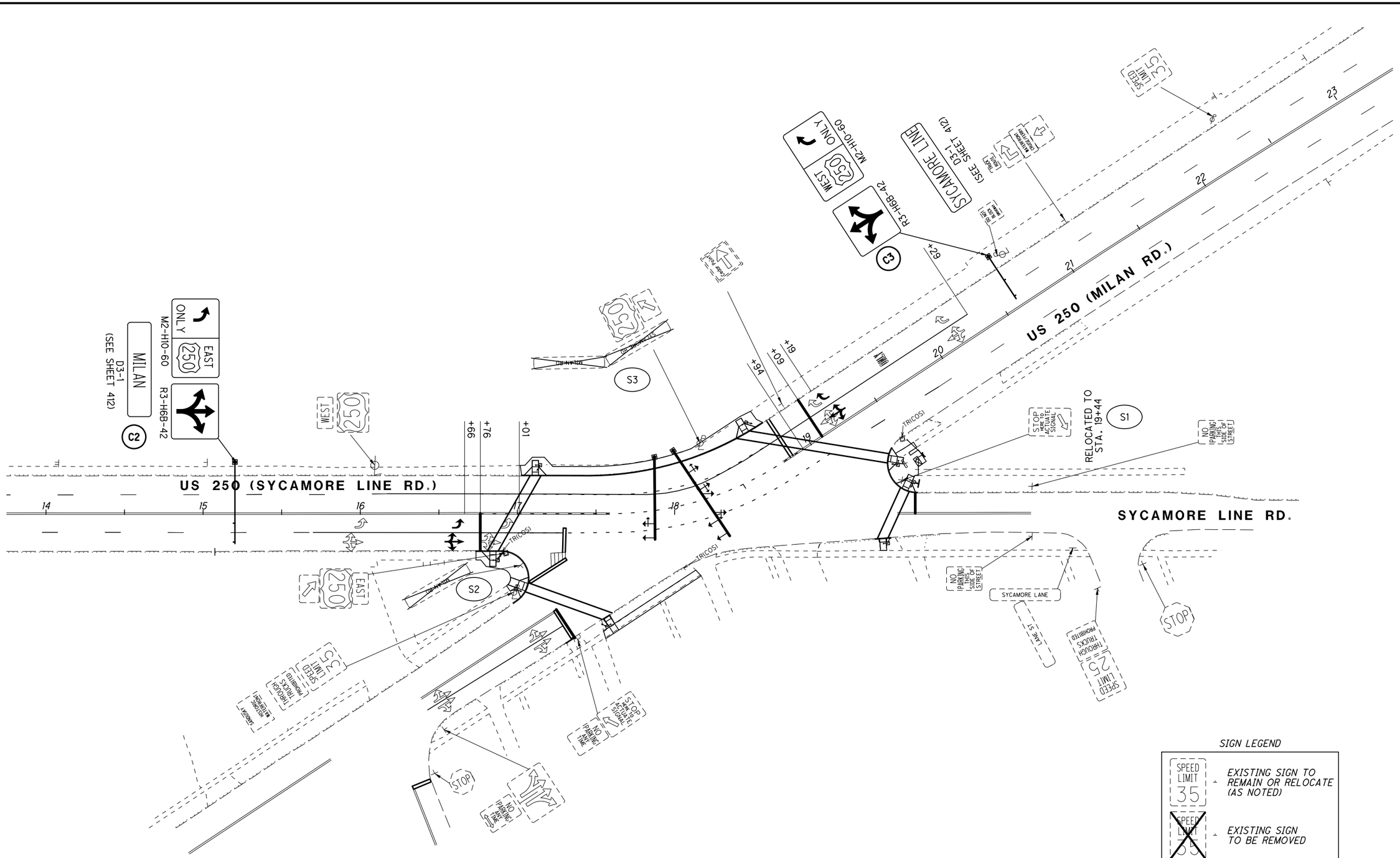

SIGN LEGEND

- SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
- SPEED LIMIT 35 (crossed out) — EXISTING SIGN TO BE REMOVED
- SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGNING QUANITIES SEE SHEET 381.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 365.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED

CHECKED

SIGNING PLAN
SYCAMORE ROAD (US 250)

ERI-250-0.00

388
677

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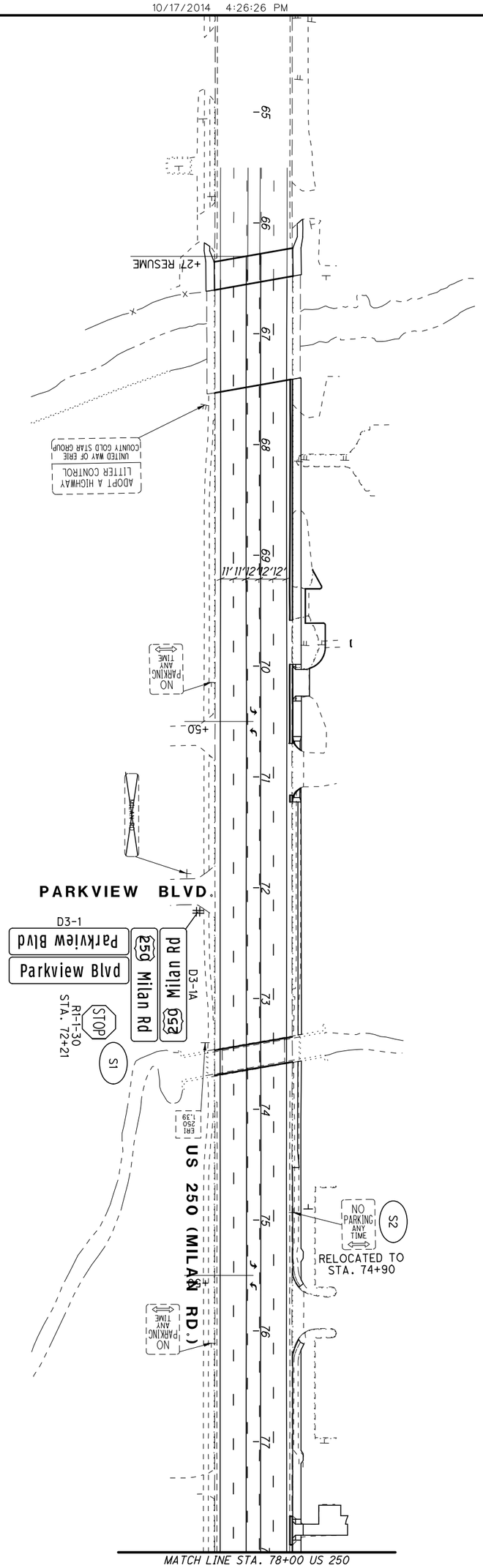


SIGN LEGEND

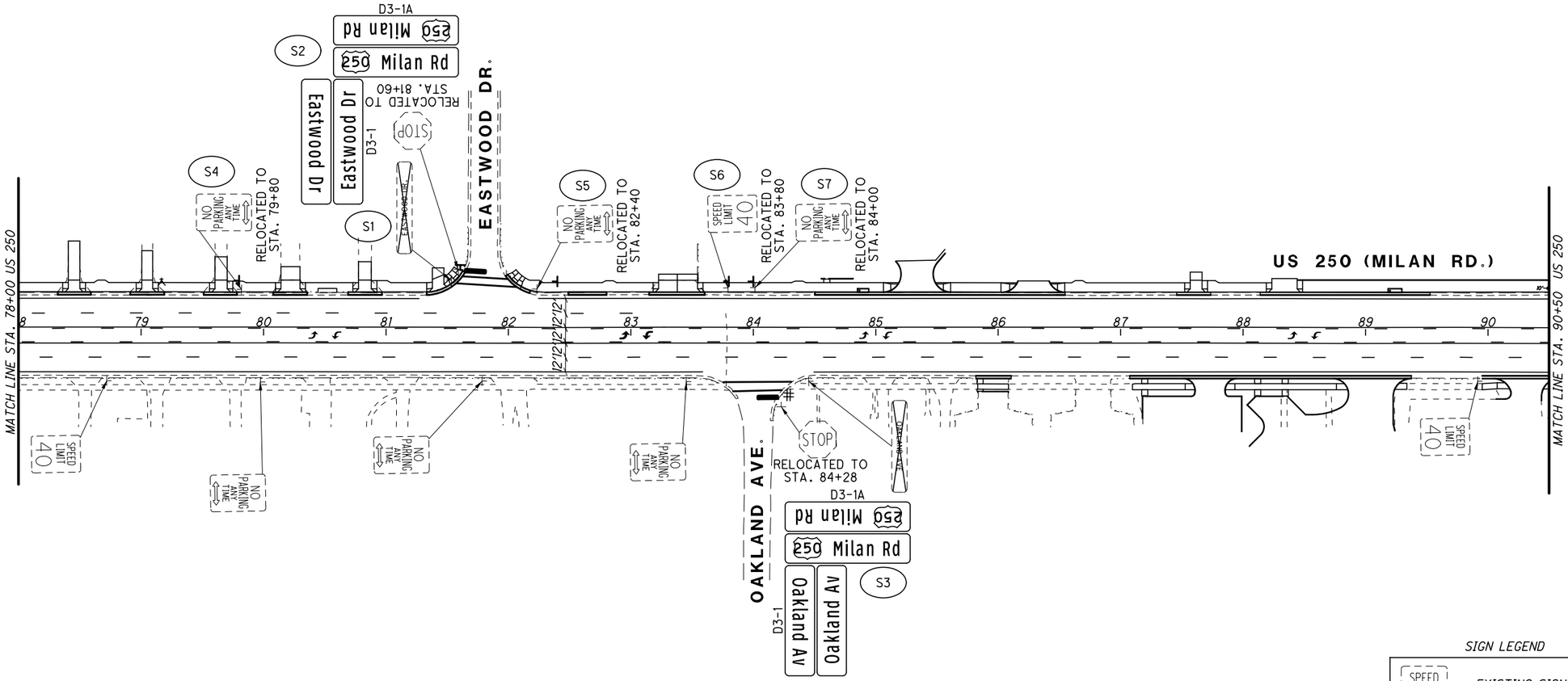
- SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
- SPEED LIMIT 35 — EXISTING SIGN TO BE REMOVED
- SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGNING QUANITIES SEE SHEET 381.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 366.

389 / 677	ERI-250-0.00	SIGNING PLAN STA. 65+50 to STA. 78+00	CALCULATED / CHECKED; 0 50 25 100 HORIZONTAL SCALE IN FEET



SIGN LEGEND

- SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
- SPEED LIMIT 35 — EXISTING SIGN TO BE REMOVED
- SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGNING QUANITIES SEE SHEET 381.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 367.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

SIGNING PLAN
STA. 78+00 to STA. 90+50

ERI-250-0.00

390
677

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SIGN LEGEND

- SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
- SPEED LIMIT 35 — EXISTING SIGN TO BE REMOVED
- SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGNING QUANITIES SEE SHEETS 381-382.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 368.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

SIGNING PLAN
STA. 90+50 TO STA. 103+00

ERI-250-0.00

391
677

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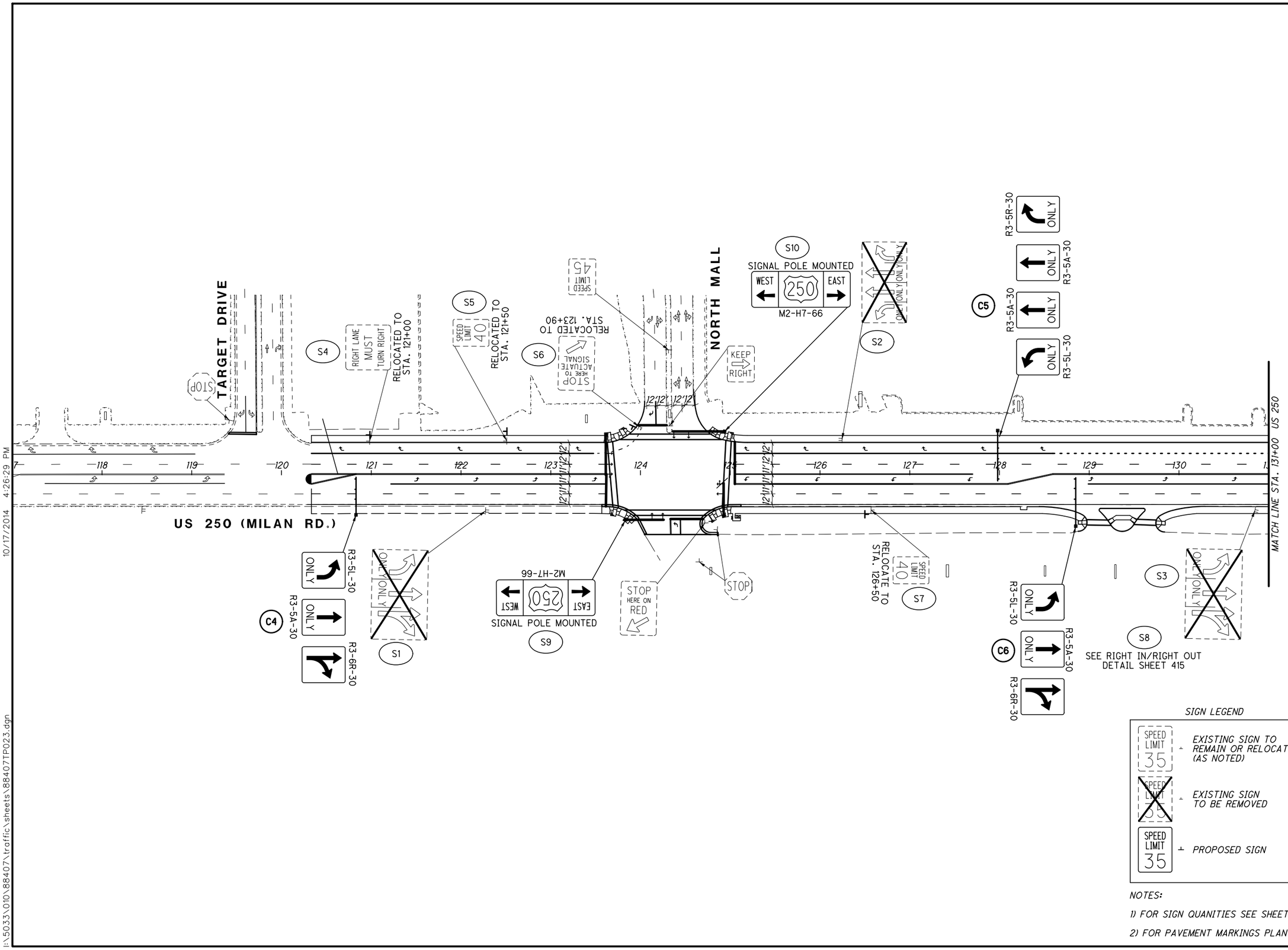
SIGNING PLAN
STA. 119+00 TO STA. 131+00

CALCULATED LMZ
CHECKED GAB

HORIZONTAL SCALE IN FEET
0 25 50 100



SIGN LEGEND

- SPEED LIMIT 35 — *EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)*
- SPEED LIMIT 35 (X) — *EXISTING SIGN TO BE REMOVED*
- SPEED LIMIT 35 — *PROPOSED SIGN*

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 382.

2) FOR PAVEMENT MARKINGS PLAN SEE SHEET 369.

ERI-250-0.00

392
677

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SIGNING PLAN
STA. 131+00 TO STA. 143+50

ERI-250-0.00

393
677

CALCULATED LMZ
CHECKED GAB

HORIZONTAL SCALE IN FEET
0 25 50 100

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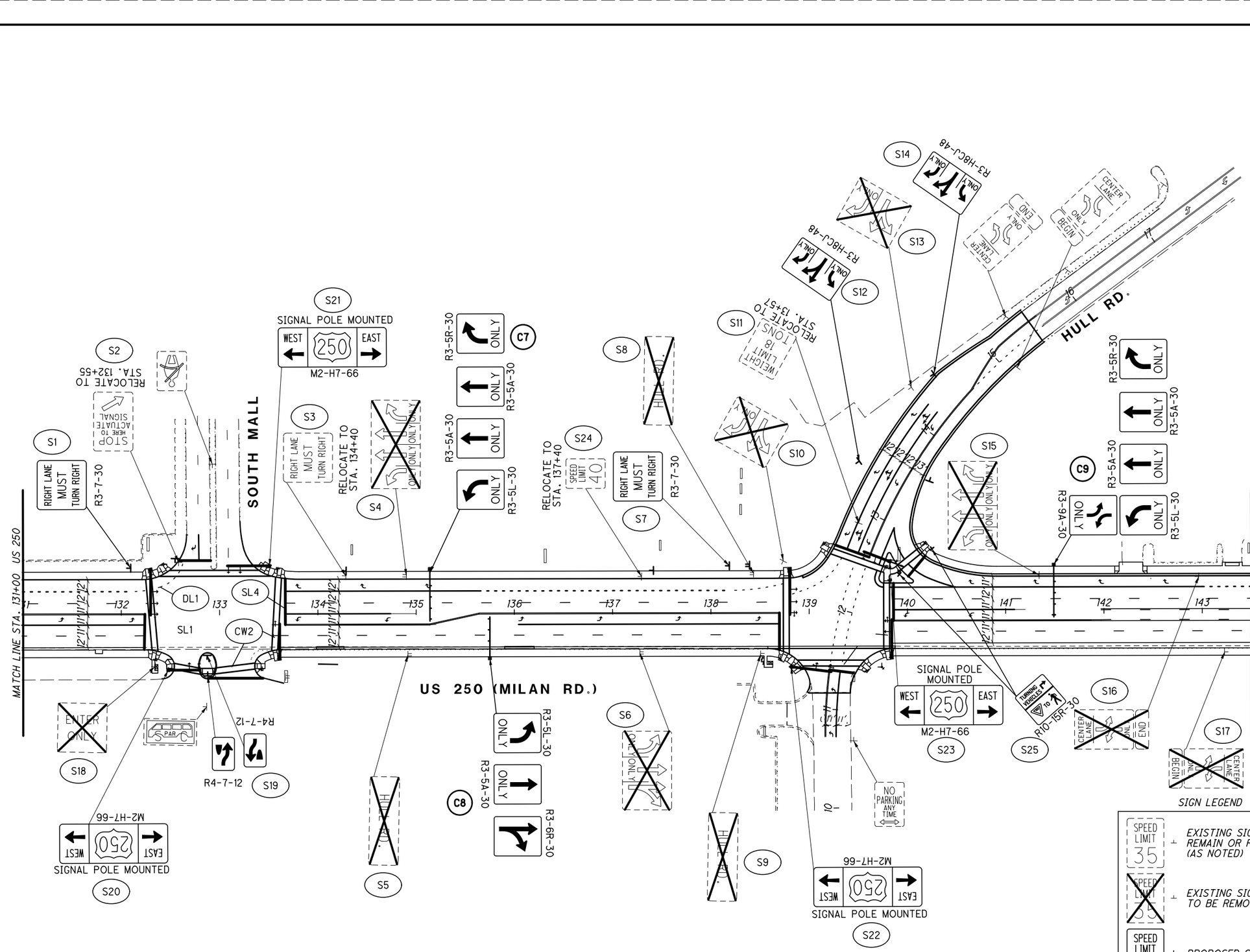


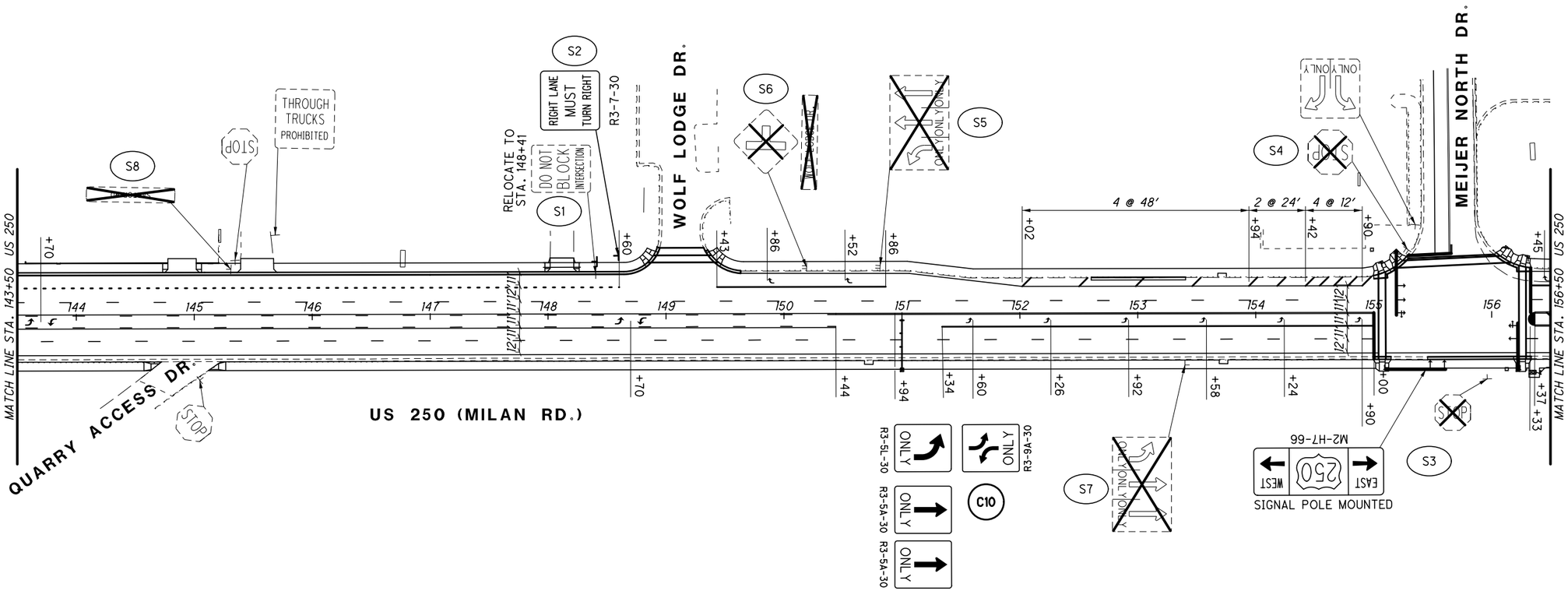
SIGN LEGEND

SPEED LIMIT 35	EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
SPEED LIMIT 35	EXISTING SIGN TO BE REMOVED
SPEED LIMIT 35	PROPOSED SIGN

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 382.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 370.



SIGN LEGEND

SPEED LIMIT 35	EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
SPEED LIMIT 35	EXISTING SIGN TO BE REMOVED
SPEED LIMIT 35	PROPOSED SIGN

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 382.

2) FOR PAVEMENT MARKINGS PLAN SEE SHEET 371.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

SIGNING PLAN
STA. 143+50 TO STA. 156+50

ERI-250-0.00

394
677

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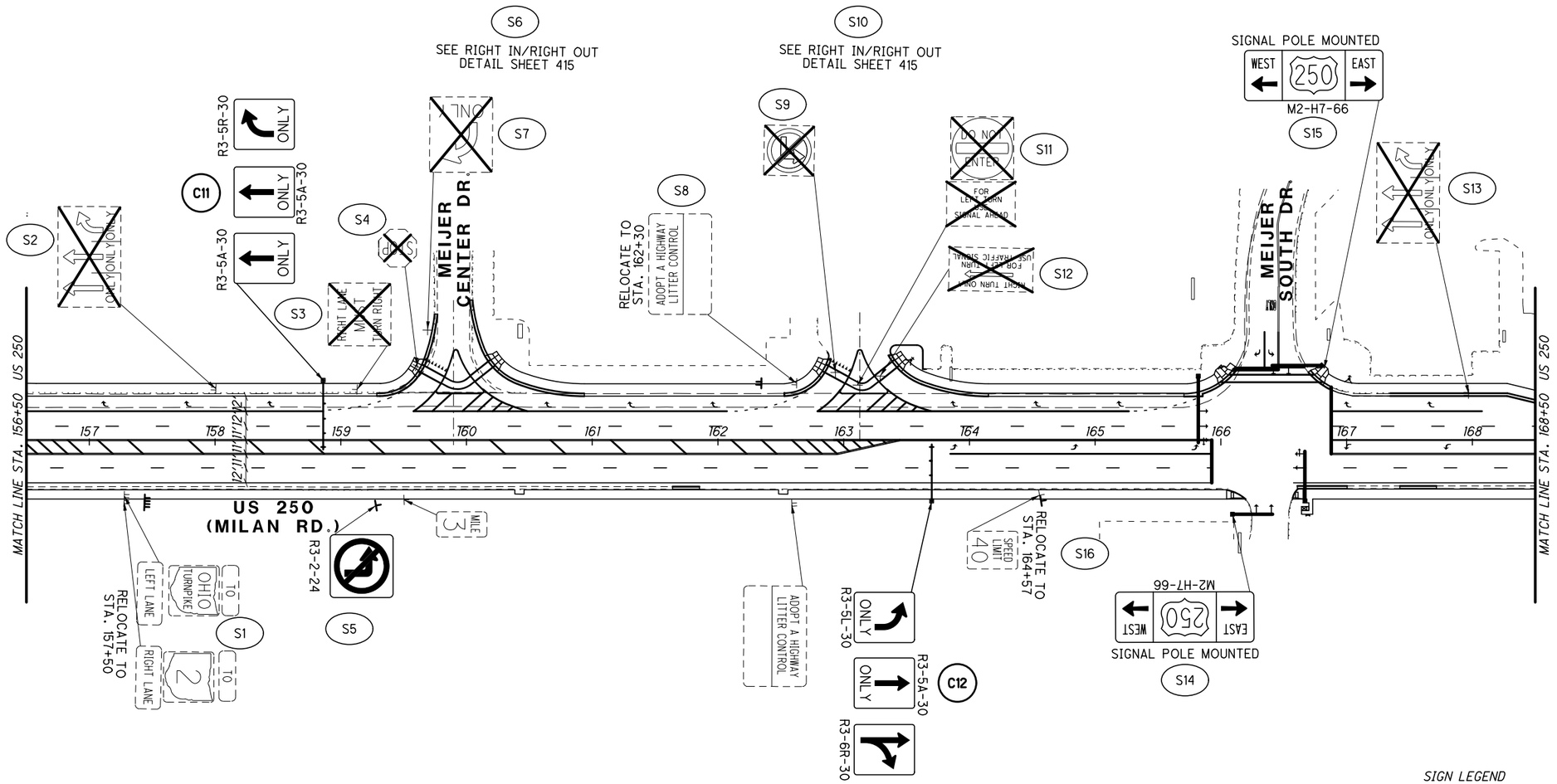

SIGN LEGEND

SPEED LIMIT 35	EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
SPEED LIMIT 35	EXISTING SIGN TO BE REMOVED
SPEED LIMIT 35	PROPOSED SIGN

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 383.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 372.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

SIGNING PLAN
STA. 156+50 TO STA. 168+50

ERI-250-0.00

395
677

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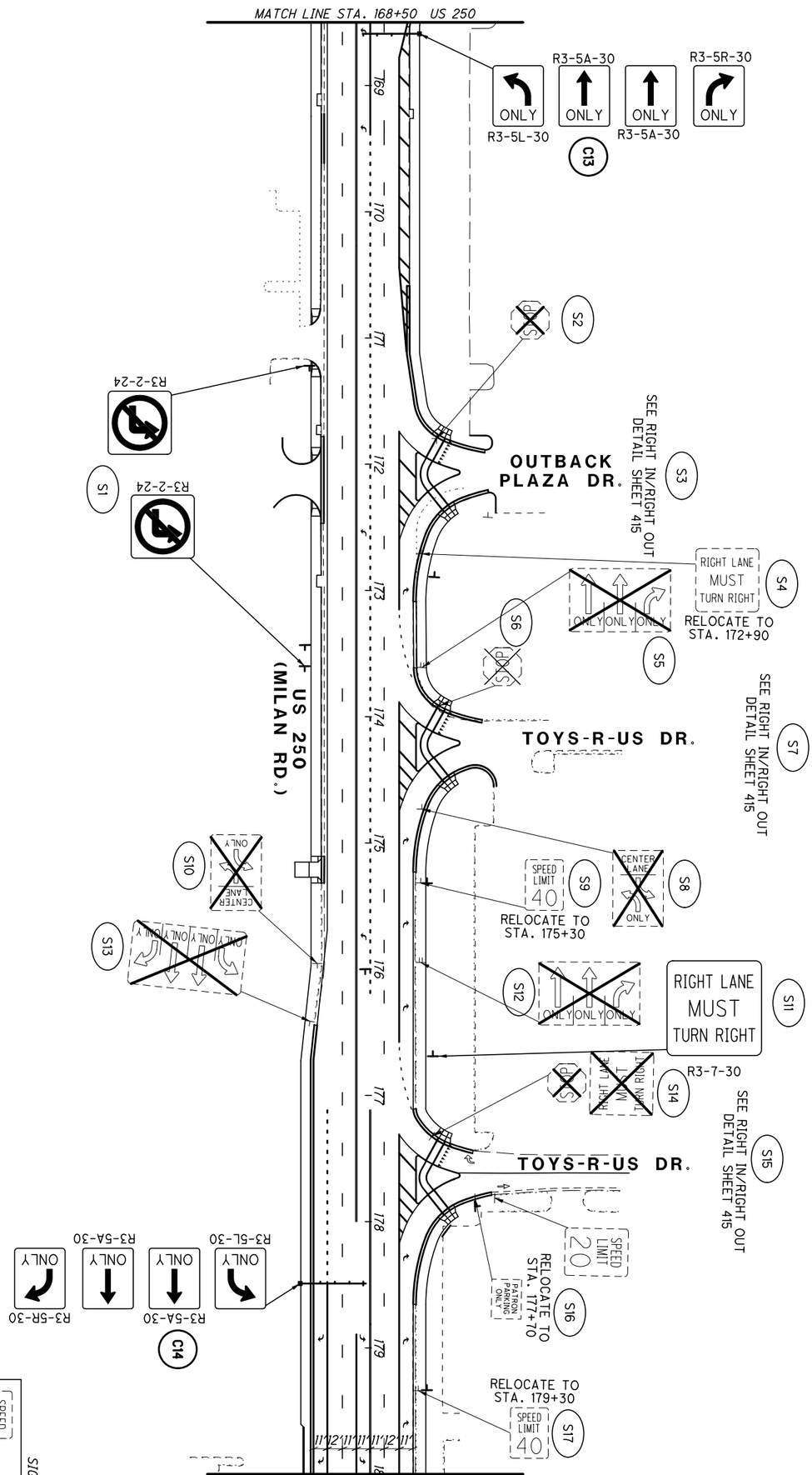

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 383.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 373.

396
677

ERI-250-0.00

SIGNING PLAN
STA. 168+50 TO STA. 180+00

CALCULATED LMZ
CHECKED GAB

0 25 50 100
HORIZONTAL SCALE IN FEET

NOTES:

1) FOR SIGNING QUANITIES SEE SHEETS 383-384.

2) FOR PAVEMENT MARKING PLAN SEE SHEET 374.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED LMZ
CHECKED GAB

SIGNING PLAN
STA. 180+00 TO STA. 192+50

ERI-250-0.00

397
677

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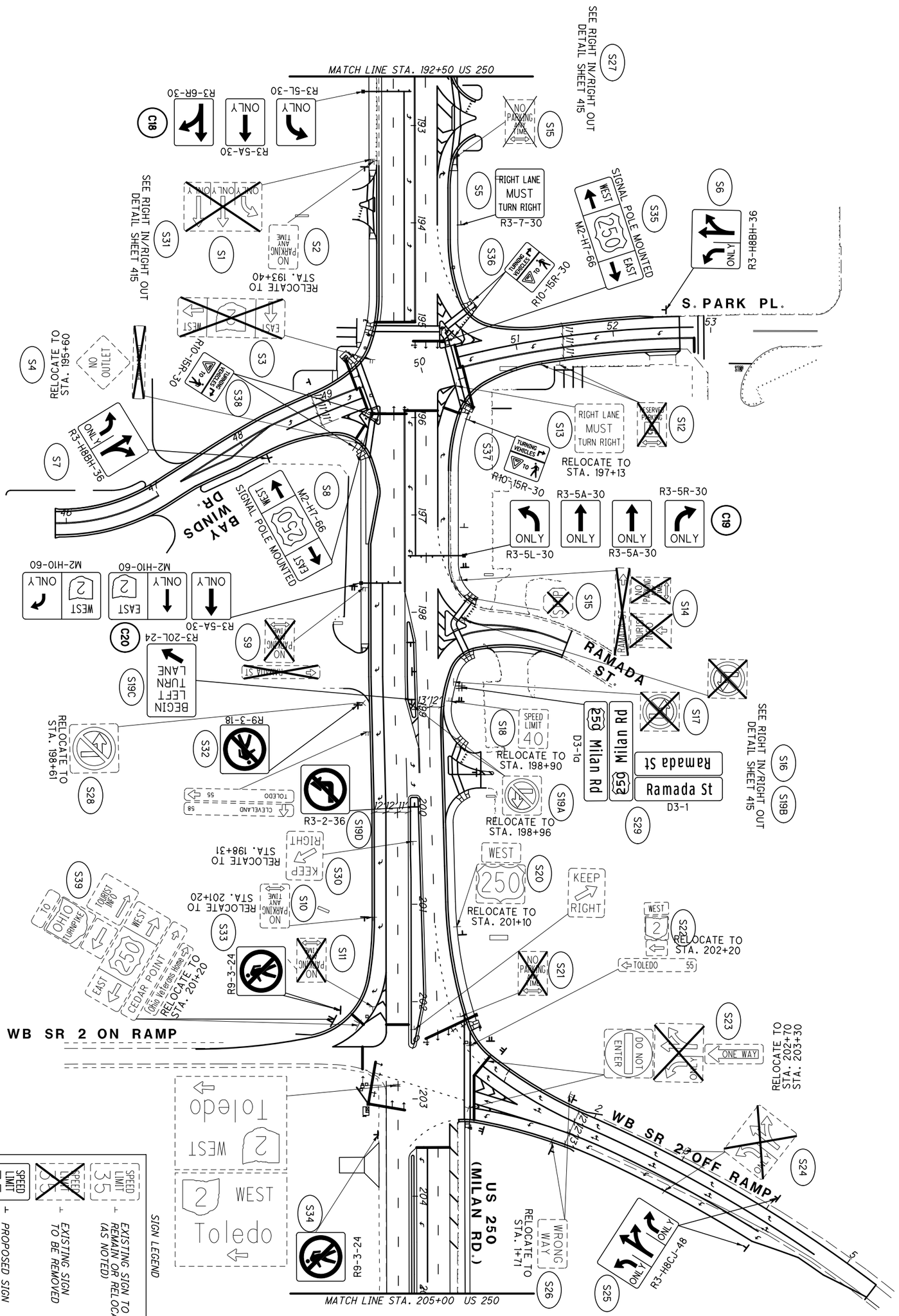


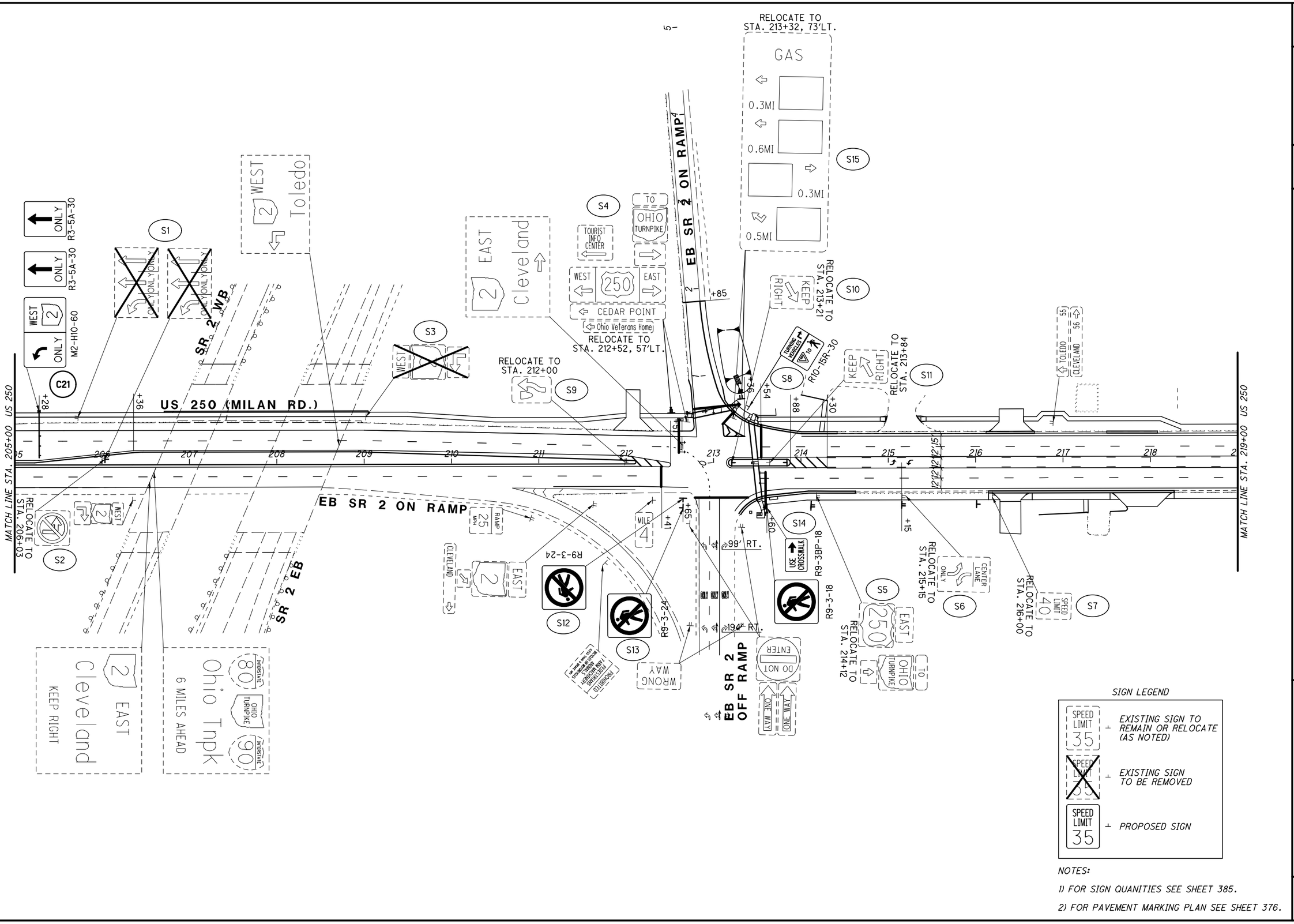
398
677

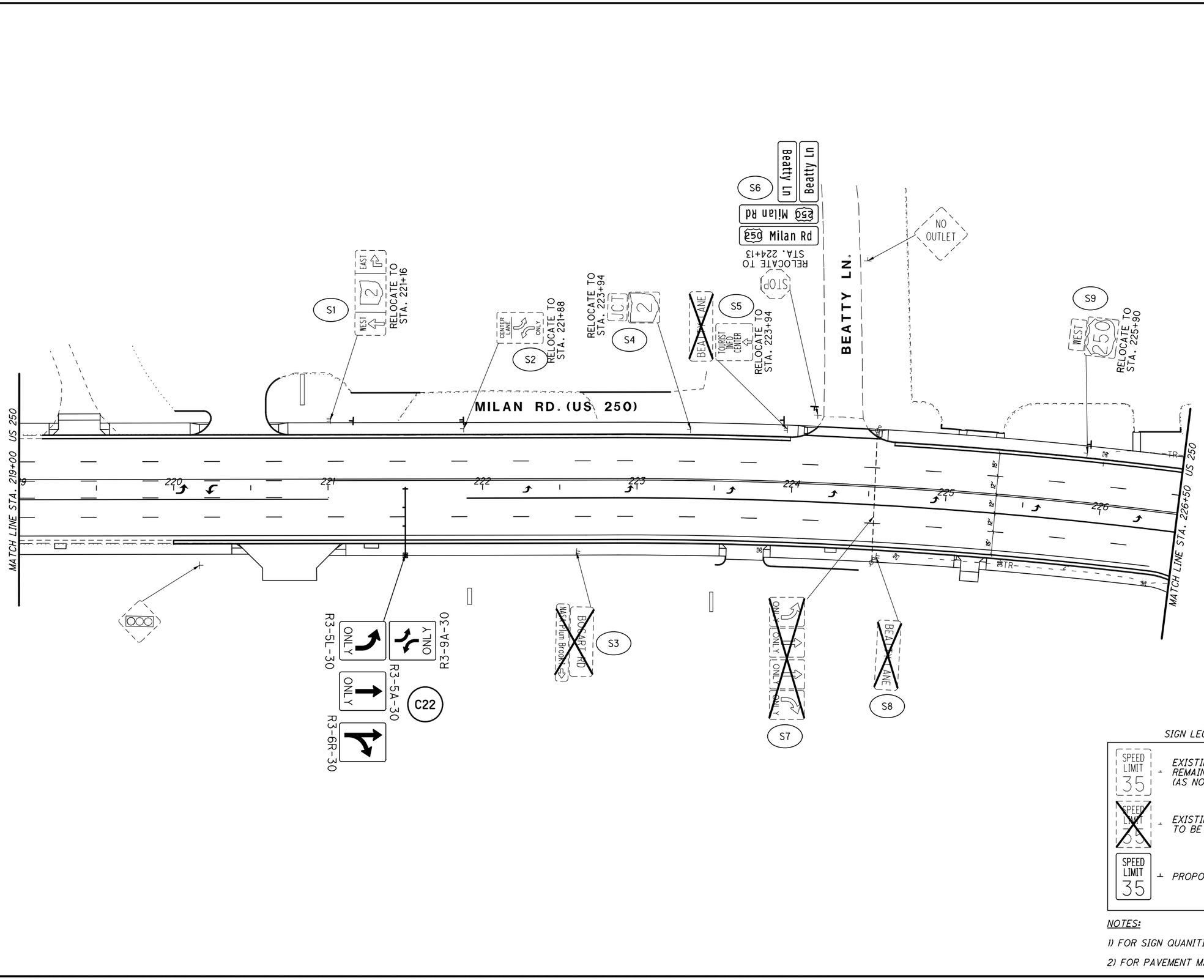
ERI-250-0.00

SIGNING PLAN
STA. 192+50 TO STA. 205+00

CALCULATED LMZ
CHECKED GAB

0 25 50 100
HORIZONTAL SCALE IN FEET


US 250 (MILAN RD.)
EB SR 2 ON RAMP
EB SR 2 OFF RAMP
SR 2 WB
SR 2 EB
MATCH LINE STA. 205+00 US 250
MATCH LINE STA. 219+00 US 250
RELOCATE TO STA. 206+03
RELOCATE TO STA. 212+00
RELOCATE TO STA. 212+52, 57'LT.
RELOCATE TO STA. 213+32, 73'LT.
RELOCATE TO STA. 213+21
RELOCATE TO STA. 213+84
RELOCATE TO STA. 214+12
RELOCATE TO STA. 215+15
RELOCATE TO STA. 216+00
GAS
0.3MI
0.6MI
0.3MI
0.5MI
TOURIST INFO CENTER
OHIO TURNPIKE
CEDAR POINT
Ohio Veterans Home
WEST Toledo
EAST Cleveland
KEEP RIGHT
ONLY
CAUTION ONLY
M2-H10-60
R3-5A-30
R10-15R-30
TURNING VEHICLES
R9-3BP-18
R9-3-18
R9-3-24
WRONG WAY
DO NOT ENTER
ONE WAY
CENTER LANE ONLY
SPEED LIMIT 40
CROSSWALK
RAMP 25 MPH
MILE 4
TOLEDO 55
CLEVELAND 56
2 EAST Cleveland KEEP RIGHT
80 90 Ohio Tnpk
6 MILES AHEAD
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
C21
+28
+36
+85
+54
+88
+30
+65
+41
+60
+15
99' RT.
194' RT.
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
12'
12'
12'



NOTES:

1) FOR SIGN QUANITIES SEE SHEET 385.

2) FOR PAVEMENT MARKINGS PLAN SEE SHEET 377.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED

CHECKED

SIGNING PLAN
STA. 219+00 TO STA. 226+50

ERI-250-0.00

400
677

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SIGNING PLAN
STA. 226+50 TO STA. 234+50

ERI-250-0.00

401
677

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED | CHECKED

MILAN RD. (US 250)

BOGART RD.

MATCH LINE STA. 372+00 BOGART RD. SEE SHEET 403

MATCH LINE STA. 369+00 BOGART RD. SEE SHEET 401

MATCH LINE STA. 226+50 US 250

RELOCATE TO STA. 226+80

RELOCATE TO STA. 229+00

RELOCATE TO STA. 230+95

RELOCATE TO STA. 231+85

SIGNAL POLE MOUNTED WEST 250 EAST M2-H7-66

WEIGHT LIMIT 25 TONS

NO PARKING ANY TIME

R10-15R-30 TURNING VEHICLES TO

R3-6R-30 R3-5A-30 ONLY R3-5L-30 ONLY R3-9A-30 ONLY C23

OM4-1-18

S1 S2 S3 S4 S5 S6 S7 S9 S10 S11 S12 S13 S14 S15 S16

SIGN LEGEND

- SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
- SPEED LIMIT 35 — EXISTING SIGN TO BE REMOVED
- SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 386.

2) FOR PAVEMENT MARKINGS PLAN SEE SHEET 378.

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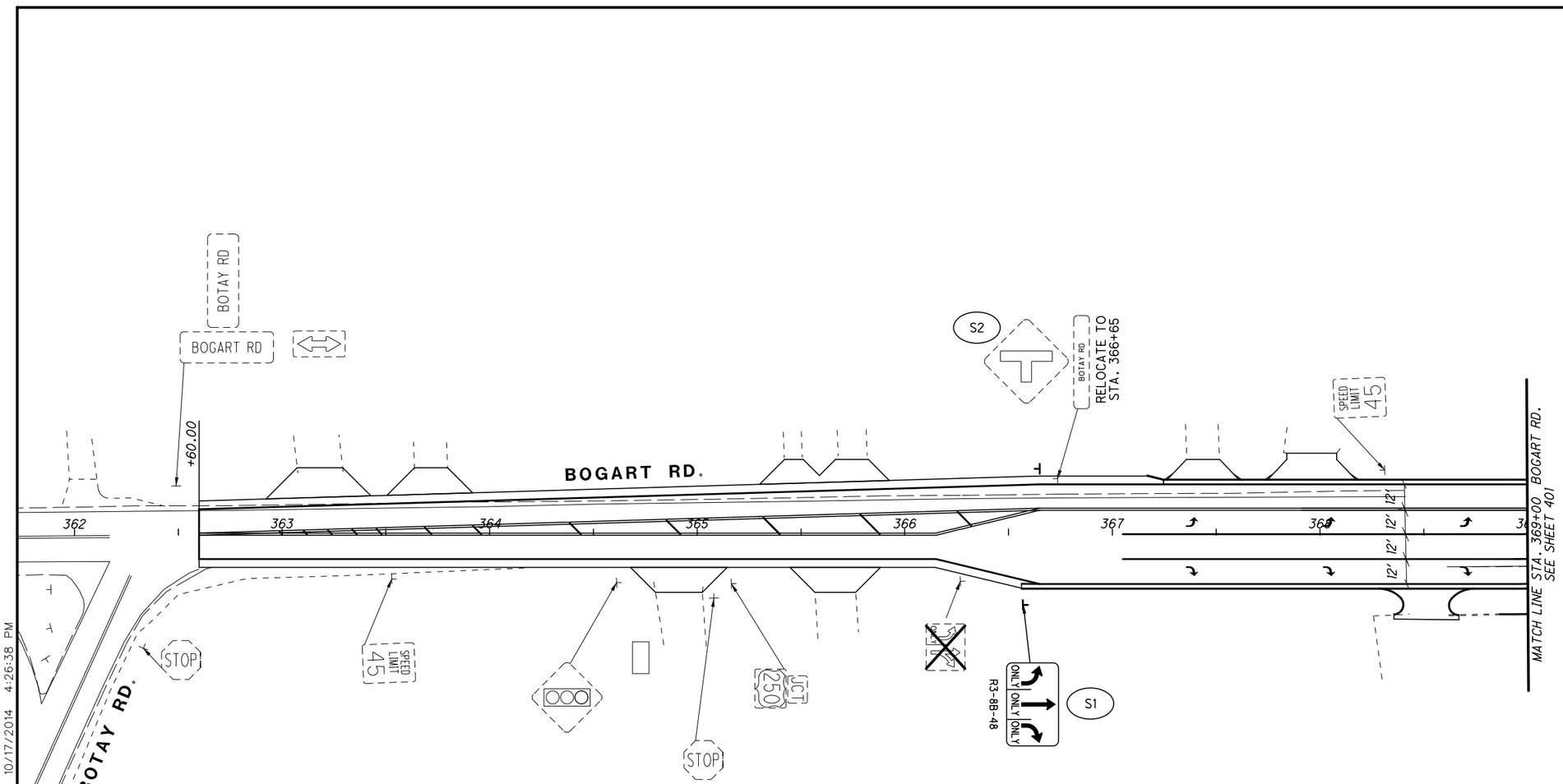

SIGN LEGEND

SPEED LIMIT 35	EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
SPEED LIMIT 35 (crossed out)	EXISTING SIGN TO BE REMOVED
SPEED LIMIT 35	PROPOSED SIGN

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 386.

2) FOR PAVEMENT MARKINGS PLAN SEE SHEET 379.

HORIZONTAL SCALE IN FEET
0 15 30 60

CALCULATED | CHECKED

SIGNING PLAN
STA. 362+00 TO STA. 369+00

ERI-250-0.00

402
677

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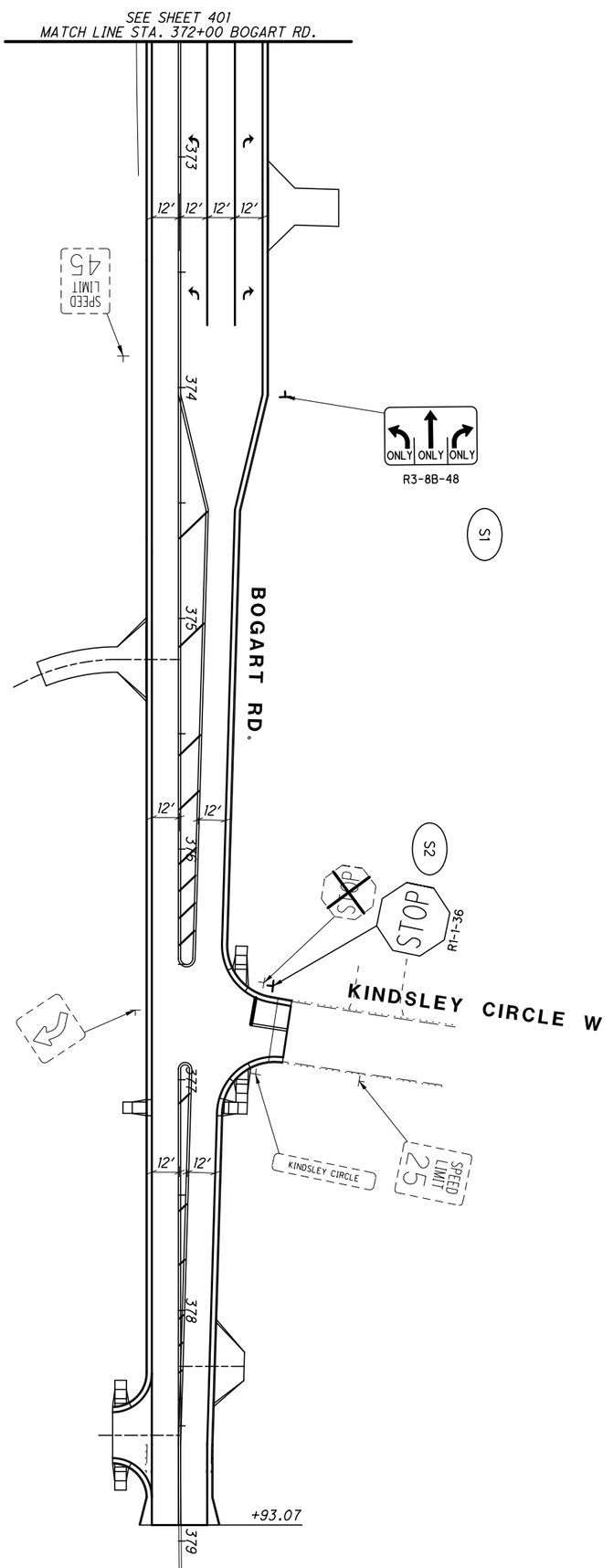


SIGN LEGEND

- SPEED LIMIT 35 — EXISTING SIGN TO REMAIN OR RELOCATE (AS NOTED)
- SPEED LIMIT 35 — EXISTING SIGN TO BE REMOVED
- SPEED LIMIT 35 — PROPOSED SIGN

NOTES:

1) FOR SIGN QUANITIES SEE SHEET 386.

2) FOR PAVEMENT MARKINGS PLAN SEE SHEET 380.

403
677

ERI-250-0.00

SIGNING PLAN
STA. 371+00 TO STA. 379+00

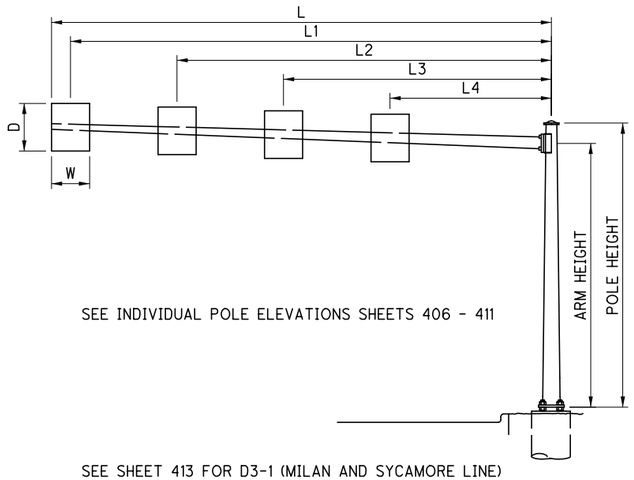
CALCULATED LMZ
CHECKED GAB

0 15 30 60
HORIZONTAL SCALE IN FEET

N

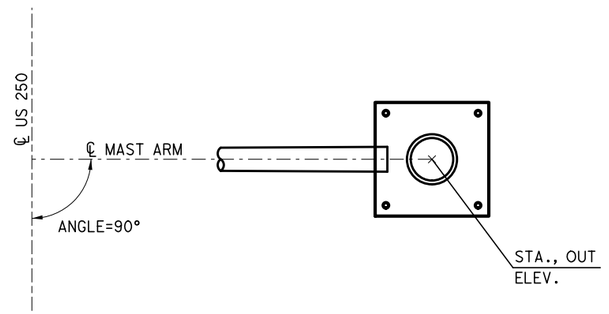
SINGLE ARM OVERHEAD SIGN SUPPORT, TC-16.21

SUPPORT NO.	SHEET	STATION	OUT	SIDE	DIRECTION	CROSS STREET	POLE HEIGHT	FOUNDATION ELEVATION	FAR PAVEMENT ELEVATION	L, CALCULATED ARM LENGTH (TO OUTSIDE EDGE OF SIGN)	CALCULATED CLEARANCE	K [SUM OF ALL SIGNS] [Ln x ((Wn x Dn) /144)]	TC-16.21 DESIGN NUMBER	ANGLE	SIGN 1					SIGN 2				SIGN 3				SIGN 4			
															CODE FRONT	CODE BACK	L1	W1	D1	CODE	L2	W2	D2	CODE	L3	W3	D3	CODE	L4	W4	D4
			FT				FT			FT	FT	FT°3		DEG			FT	FT	FT		FT	FT	FT		FT	FT	FT		FT	FT	FT
C1	387, 406	2+38.00	32.00	L	NB	CLEVELAND	20.0	595.31	595.36	27	18.4	300	6	90	R3-5L		25.00	2.50	3.00	R3-6R	15.00	2.50	3.00	-				-			
C2	388, 406	15+20.2	33.00	L	SB	MILAN	19.0	595.61	595.34	53	17.8	1262	13	90	M2-H10		51.00	3.50	3.00	R3-H6b	39.00	5.00	3.00	D3-1	21.00	4.50	1.50	-			
C3	388, 406	20+60.00	37.75	L	NB	SYC LINE	20.0	598.34	598.56	32	18.3	693	8	90	R3-H6b		30.00	3.50	3.00	M2-H10	18.00	5.00	3.00	D3-1	9.00	8.00	1.50	-			
C4	392, 406	120+83.00	44.50	R	SB	N MALL	19.0	611.46	611.37	42	17.6	645	11	90	R3-5L		40.00	2.50	3.00	R3-5a	28.50	2.50	3.00	R3-6R	17.50	2.50	3.00	-			
C5	392, 407	127+98.00	49.50	L	NB	N MALL	20.0	610.99	611.20	56	18.3	1114	13	90	R3-5L		54.00	2.50	3.00	R3-5a	43.50	2.50	3.00	R3-5a	31.50	2.50	3.00	R3-6R	19.50	2.50	3.00
C6	392, 407	128+85.00	57.00	R	SB	S MALL	20.0	610.61	611.31	54	17.8	934	13	90	R3-5L		52.50	2.50	3.00	R3-5a	42.00	2.50	3.00	R3-6R	30.00	2.50	3.00	-			
C7	393, 407	135+14.00	46.50	L	NB	S MALL	19.0	613.73	613.67	53	17.6	1024	13	90	R3-5L		51.00	2.50	3.00	R3-5a	40.00	2.50	3.00	R3-5a	28.50	2.50	3.00	R3-5R	17.00	2.50	3.00
C8	393, 407	135+75.00	44.50	R	SB	HULL	19.0	614.10	613.98	42	17.6	649	11	90	R3-5L		40.00	2.50	3.00	R3-5a	29.00	2.50	3.00	R3-6R	17.50	2.50	3.00	-			
C9	393, 408	141+49.00	49.50	L	NB	HULL	20.0	614.13	614.44	53	18.2	1024	13	90	R3-5L	R3-9a	51.00	2.50	3.00	R3-5a	40.00	2.50	3.00	R3-5a	28.50	2.50	3.00	R3-5R	17.00	2.50	3.00
C10	394, 408	151+00.00	43.50	R	SB	N MEIJER	20.0	613.86	613.91	44	18.5	694	12	90	R3-5L	R3-9a	42.00	2.50	3.00	R3-5a	31.00	2.50	3.00	R3-6R	19.50	2.50	3.00	-			
C11	395, 408	158+86.00	51.50	L	NB	N MEIJER	20.0	613.74	613.85	44	18.4	683	12	90	R3-5a		42.00	2.50	3.00	R3-5a	30.50	2.50	3.00	R3-5R	18.50	2.50	3.00	-			
C12	395, 408	163+70.00	44.50	R	SB	S MEIJER	19.0	613.78	613.76	45	17.5	716	12	90	R3-5L		43.00	2.50	3.00	R3-5a	32.00	2.50	3.00	R3-6R	20.50	2.50	3.00	-			
C13	396, 409	168+59.00	43.00	L	NB	S MEIJER	20.0	612.52	612.72	45	18.3	814	12	90	R3-5L		43.00	2.50	3.00	R3-5a	33.50	2.50	3.00	R3-5a	22.00	2.50	3.00	R3-5R	10.00	2.50	3.00
C14	396, 409	178+49.00	51.50	R	SB	CROSSINGS	19.0	612.76	612.62	52	17.6	994	13	90	R3-5L		50.00	2.50	3.00	R3-5a	39.00	2.50	3.00	R3-5a	27.50	2.50	3.00	R3-5R	16.00	2.50	3.00
C15	397, 409	185+58.00	45.50	L	NB	CROSSINGS	20.0	610.81	611.12	49	18.2	904	13	90	R3-5L		47.00	2.50	3.00	R3-5a	36.00	2.50	3.00	R3-5a	24.50	2.50	3.00	R3-5R	13.00	2.50	3.00
C16	397, 409	186+07.00	49.50	R	SB	FUN	20.0	610.55	611.19	50	17.9	934	13	90	R3-5L		48.00	2.50	3.00	R3-5a	37.00	2.50	3.00	R3-5a	25.50	2.50	3.00	R3-5R	14.00	2.50	3.00
C17	397, 410	191+36.00	52.50	L	NB	FUN	20.0	610.80	611.04	56	18.3	1114	13	90	R3-5L		54.00	2.50	3.00	R3-5a	43.00	2.50	3.00	R3-5a	31.50	2.50	3.00	R3-5R	20.00	2.50	3.00
C18	398, 410	192+65.00	49.00	R	SB	BAY WINDS	20.0	610.17	610.31	49	18.4	818	13	90	R3-5L		47.50	2.50	3.00	R3-5a	36.50	2.50	3.00	R3-6R	25.00	2.50	3.00	-			
C19	398, 410	197+42.00	53.80	L	NB	BAY WINDS	19.0	607.37	606.77	57	18.1	1144	13	90	R3-5L		55.00	2.50	3.00	R3-5a	44.00	2.50	3.00	R3-5a	32.50	2.50	3.00	R3-5R	21.00	2.50	3.00
C20	398, 410	197+70.00	52.00	R	SB	WB SR2	20.0	606.35	606.91	42	17.9	960	11	90	R3-5a		40.00	2.50	3.00	M2-H10	28.00	5.00	3.00	M2-H10	16.00	5.00	3.00	-			
C21	399, 411	205+28.00	60.00	L	NB	WB SR2	21.0	604.24	605.48	53	18.3	1264	13	90	M2-H10		50.50	5.00	3.00	R3-5a	39.50	2.50	3.00	R3-5a	28.00	2.50	3.00	-			
C22	400, 411	221+50.00	43.00	R	SB	BOGART	20.0	610.00	610.02	45	18.5	698	12	90	R3-5L	R3-9a	43.00	2.50	3.00	R3-5a	31.00	2.50	3.00	R3-6R	19.00	2.50	3.00	-			
C23	401, 411	231+65.00	47.50	L	NB	BOGART	19.0	617.40	616.63	49	18.3	799	13	90	R3-5L	R3-9a	47.50	2.50	3.00	R3-5a	35.50	2.50	3.00	R3-6R	23.50	2.50	3.00	-			



SEE INDIVIDUAL POLE ELEVATIONS SHEETS 406 - 411

SEE SHEET 413 FOR D3-1 (MILAN AND SYCAMORE LINE)



CALCULATED LMZ
CHECKED GAB

SINGLE ARM OVERHEAD SIGN SUPPORT, TC-16.21

ERI-250-0.00

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SINGLE ARM OVERHEAD SIGN SUPPORT, TC-16.21

SUPPORT NO.	SHEET	STATION	OUT	SIDE	DIRECTION	CROSS STREET	POLE HEIGHT	FOUNDATION ELEVATION	FAR PAVEMENT ELEVATION	L, CALCULATED ARM LENGTH (TO OUTSIDE EDGE OF SIGN)	CALCULATED CLEARANCE	K [SUM OF ALL SIGNS] [Ln x ((Wn x Dn) /144)]	TC-16.21 DESIGN NUMBER	ANGLE	625 GROUND ROD		630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 6, AS PER PLAN	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8, AS PER PLAN	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 11, AS PER PLAN	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 12, AS PER PLAN	630 OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN		630 SIGN ATTACHMENT ASSEMBLY, AS PER PLAN (FOR INFORMATION ONLY - COST INC. WITH TC-16.21 SUPPORT, 2 PER SIGN.)	630 SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION
			FT				FT			FT	FT	FT°3		DEG	EACH		EACH	EACH	EACH	EACH	EACH		EACH	SQ FT	EACH
C1	387, 406	2+38.00	32.00	L	NB	CLEVELAND	20.0	595.31	595.36	27	18.4	300	6	90	1		1						4	15.00	1
C2	388, 406	15+20.2	33.00	L	SB	MILAN	19.0	595.61	595.34	53	17.8	1262	13	90	1						1		6	32.25	1
C3	388, 406	20+60.00	37.75	L	NB	SYC LINE	20.0	598.34	598.56	32	18.3	693	8	90	1			1					6	37.50	1
C4	392, 406	120+83.00	44.50	R	SB	N MALL	19.0	611.46	611.37	42	17.6	645	11	90	1				1				6	22.50	1
C5	392, 407	127+98.00	49.50	L	NB	N MALL	20.0	610.99	611.20	56	18.3	1114	13	90	1						1		8	30.00	1
C6	392, 407	128+85.00	57.00	R	SB	S MALL	20.0	610.61	611.31	54	17.8	934	13	90	1						1		6	22.50	1
C7	393, 407	135+14.00	46.50	L	NB	S MALL	19.0	613.73	613.67	53	17.6	1024	13	90	1						1		8	30.00	1
C8	393, 407	135+75.00	44.50	R	SB	HULL	19.0	614.10	613.98	42	17.6	649	11	90	1				1				6	22.50	1
C9	393, 408	141+49.00	49.50	L	NB	HULL	20.0	614.13	614.44	53	18.2	1024	13	90	1						1		10	37.50	1
C10	394, 408	151+00.00	43.50	R	SB	N MEIJER	20.0	613.86	613.91	44	18.5	694	12	90	1					1			8	30.00	1
C11	395, 408	158+86.00	51.50	L	NB	N MEIJER	20.0	613.74	613.85	44	18.4	683	12	90	1					1			6	22.50	1
C12	395, 408	163+70.00	44.50	R	SB	S MEIJER	19.0	613.78	613.76	45	17.5	716	12	90	1					1			6	22.50	1
C13	396, 409	168+59.00	43.00	L	NB	S MEIJER	20.0	612.52	612.72	45	18.3	814	12	90	1					1			8	30.00	1
C14	396, 409	178+49.00	51.50	R	SB	CROSSINGS	19.0	612.76	612.62	52	17.6	994	13	90	1						1		8	30.00	1
C15	397, 409	185+58.00	45.50	L	NB	CROSSINGS	20.0	610.81	611.12	49	18.2	904	13	90	1						1		8	30.00	1
C16	397, 409	186+07.00	49.50	R	SB	FUN	20.0	610.55	611.19	50	17.9	934	13	90	1						1		8	30.00	1
C17	397, 410	191+36.00	52.50	L	NB	FUN	20.0	610.80	611.04	56	18.3	1114	13	90	1						1		8	30.00	1
C18	398, 410	192+65.00	49.00	R	SB	BAY WINDS	20.0	610.17	610.31	49	18.4	818	13	90	1						1		6	22.50	1
C19	398, 410	197+42.00	53.80	L	NB	BAY WINDS	19.0	607.37	606.77	57	18.1	1144	13	90	1						1		8	30.00	1
C20	398, 410	197+70.00	52.00	R	SB	WB SR2	20.0	606.35	606.91	42	17.9	960	11	90	1				1				6	37.50	1
C21	399, 411	205+28.00	60.00	L	NB	WB SR2	21.0	604.24	605.48	53	18.3	1264	13	90	1						1		6	30.00	1
C22	400, 411	221+50.00	43.00	R	SB	BOGART	20.0	610.00	610.02	45	18.5	698	12	90	1					1			8	30.00	1
C23	401, 411	231+65.00	47.50	L	NB	BOGART	19.0	617.40	616.63	49	18.3	799	13	90	1						1		8	30.00	1
FOR INFORMATION ONLY																							162		
TOTALS TO GENERAL SUMMARY, SHEET 351:															**23**		**1**	**1**	**3**	**5**	**13**			**655**	**23**

CALCULATED LMZ
CHECKED GAB

SINGLE ARM OVERHEAD SIGN SUPPORT SUBSUMMARY

ERI-250-0.00

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677

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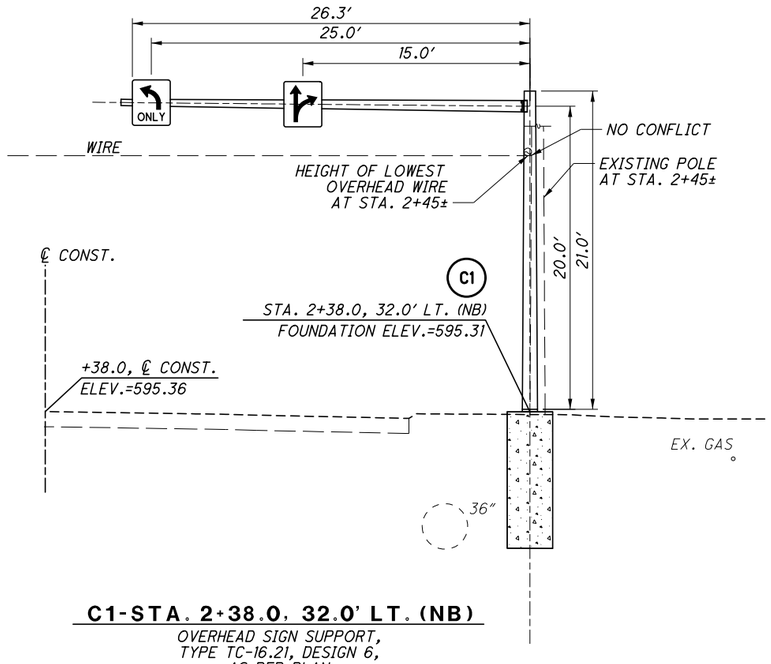
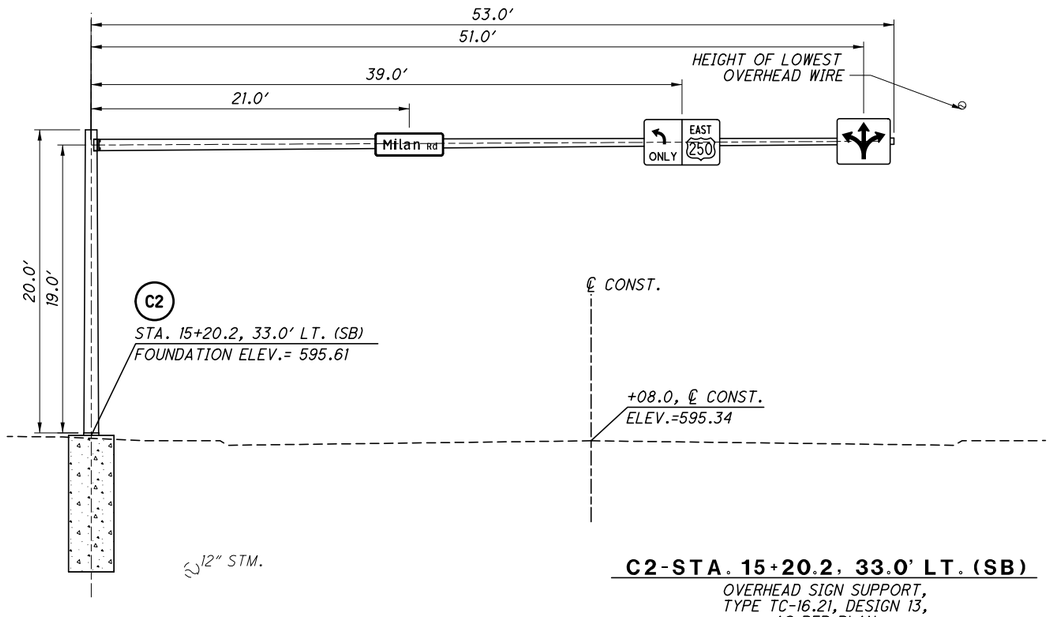


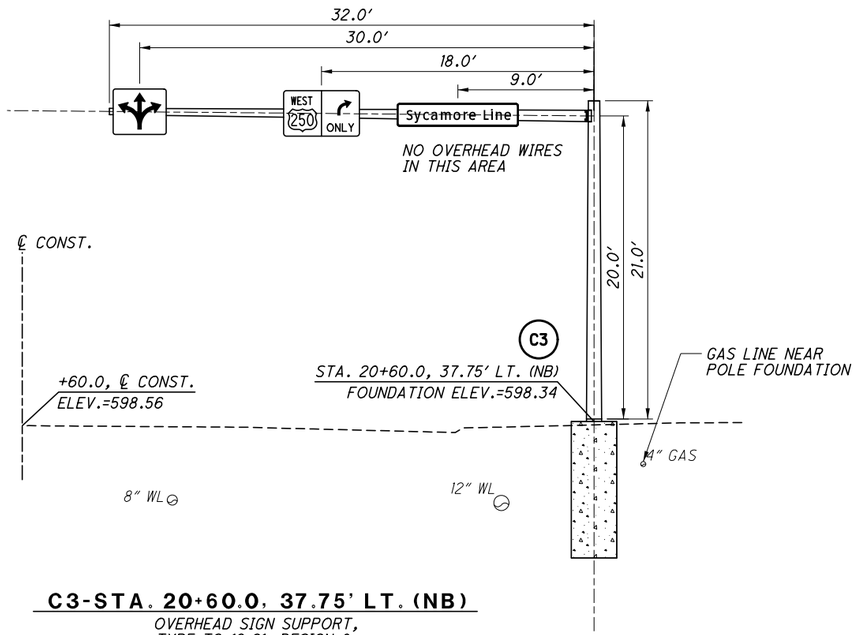
C1-STA. 2+38.0, 32.0' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 6,
AS PER PLAN



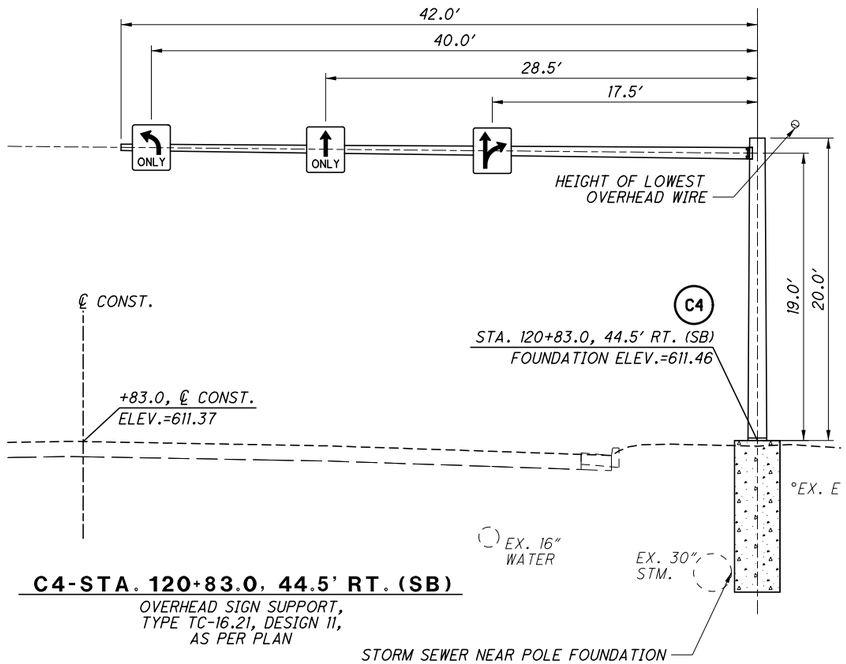
C2-STA. 15+20.2, 33.0' LT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN



C3-STA. 20+60.0, 37.75' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 8,
AS PER PLAN



C4-STA. 120+83.0, 44.5' RT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 11,
AS PER PLAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED | CHECKED

OVERHEAD SIGN SUPPORT ELEVATIONS

ERI-250-0.00

406
677

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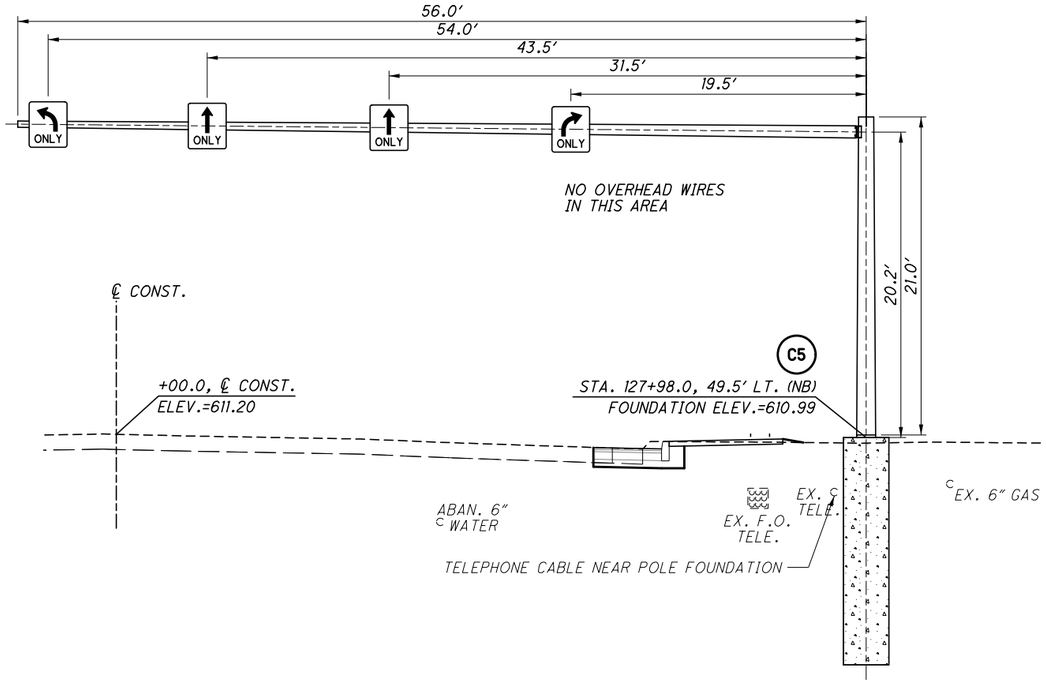
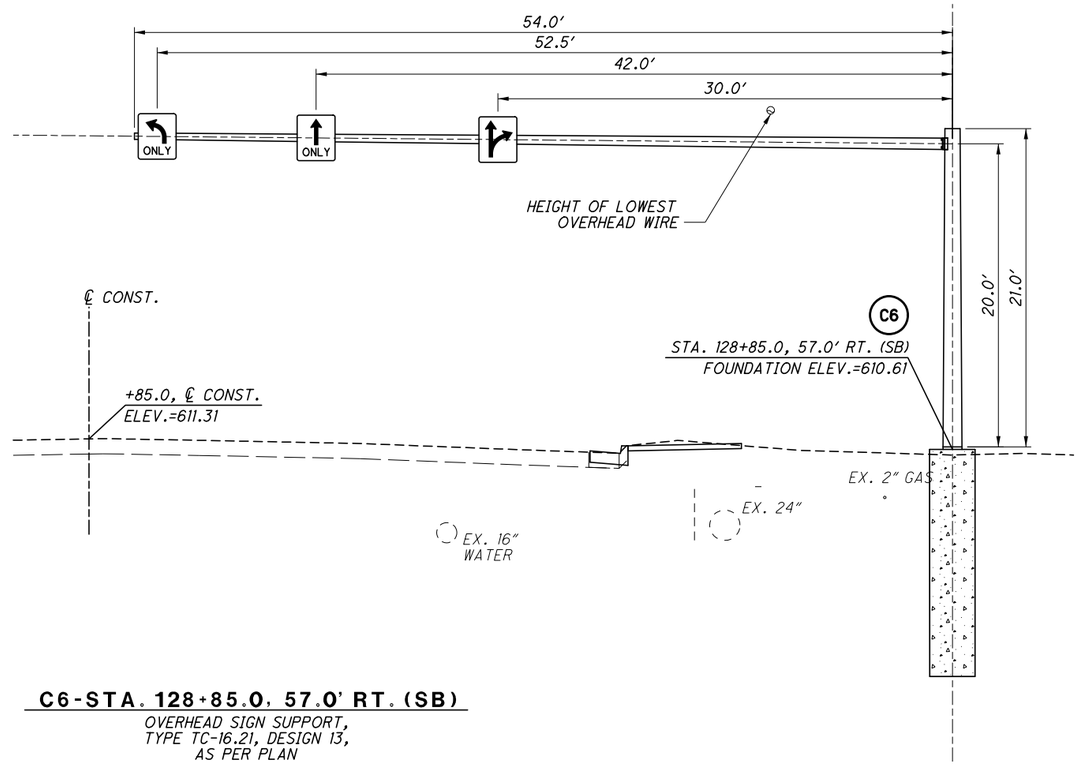


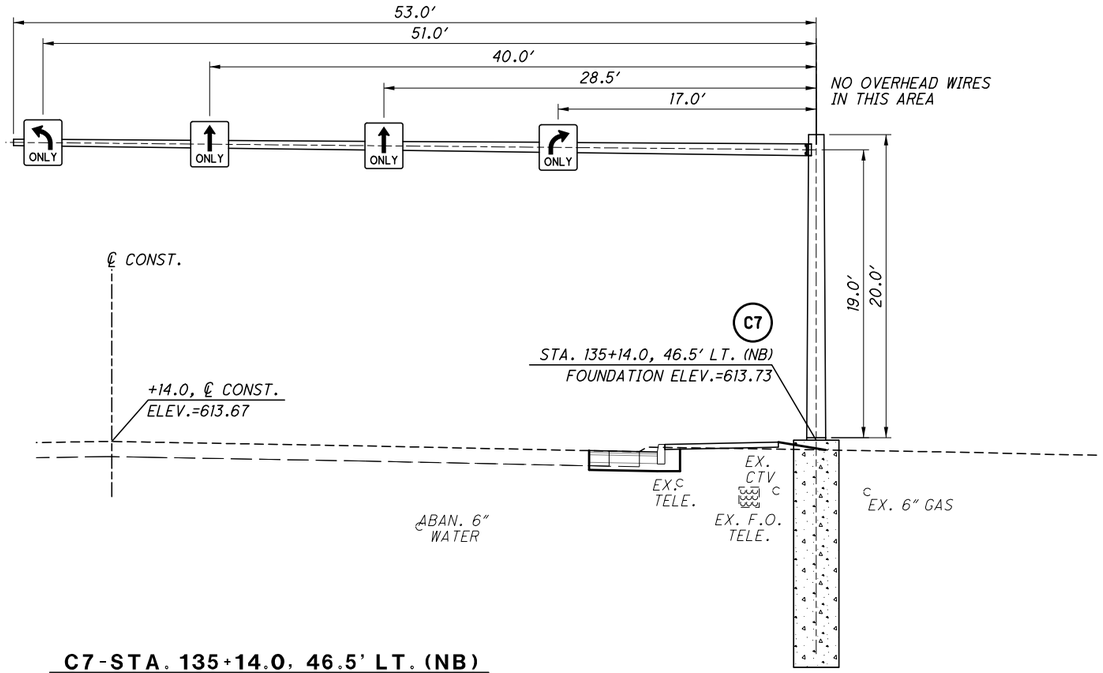
C5-STA. 127+98.0, 49.5' LT. (NB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN



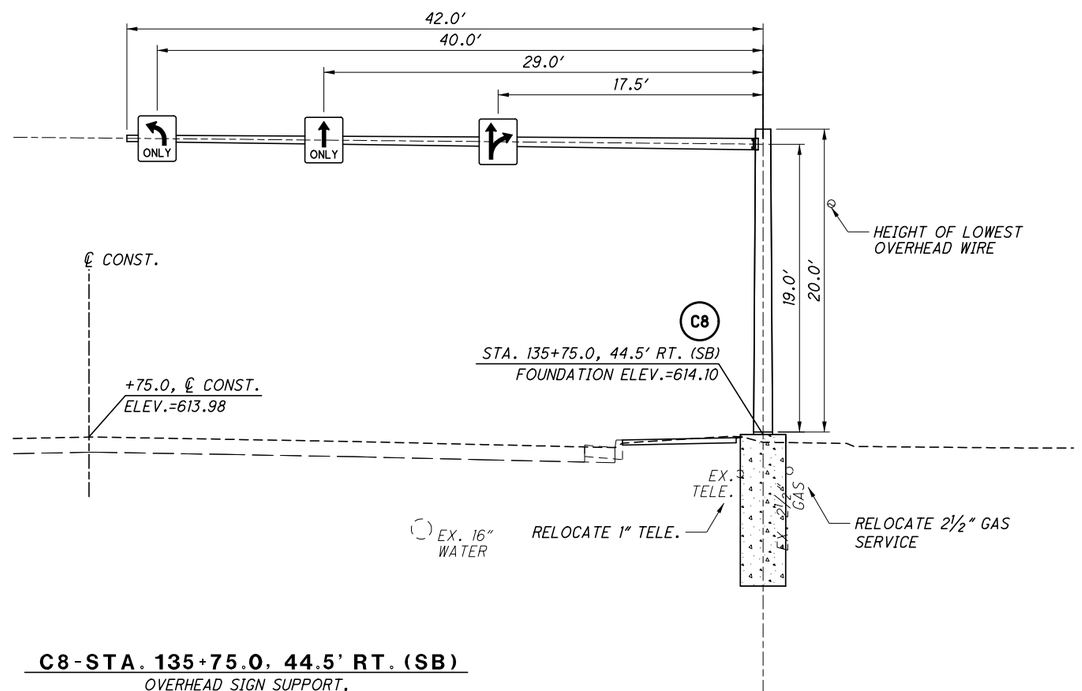
C6-STA. 128+85.0, 57.0' RT. (SB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN



C7-STA. 135+14.0, 46.5' LT. (NB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN



C8-STA. 135+75.0, 44.5' RT. (SB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 11, AS PER PLAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED | CHECKED

OVERHEAD SIGN SUPPORT ELEVATIONS

ERI-250-0.00

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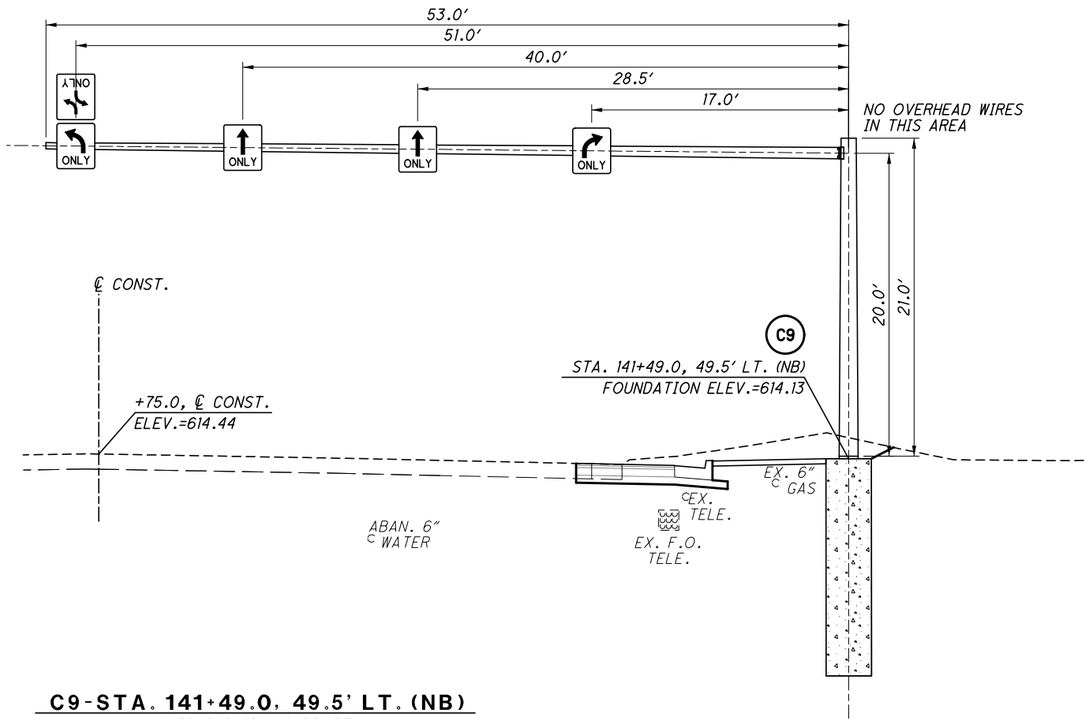
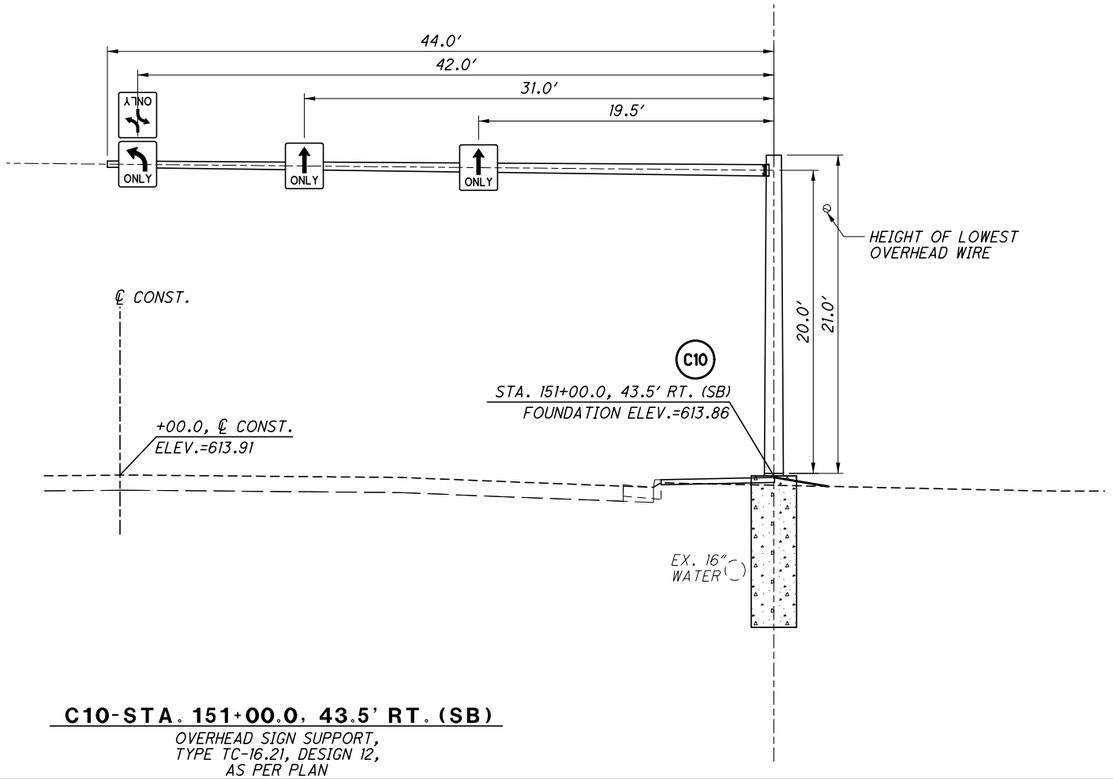


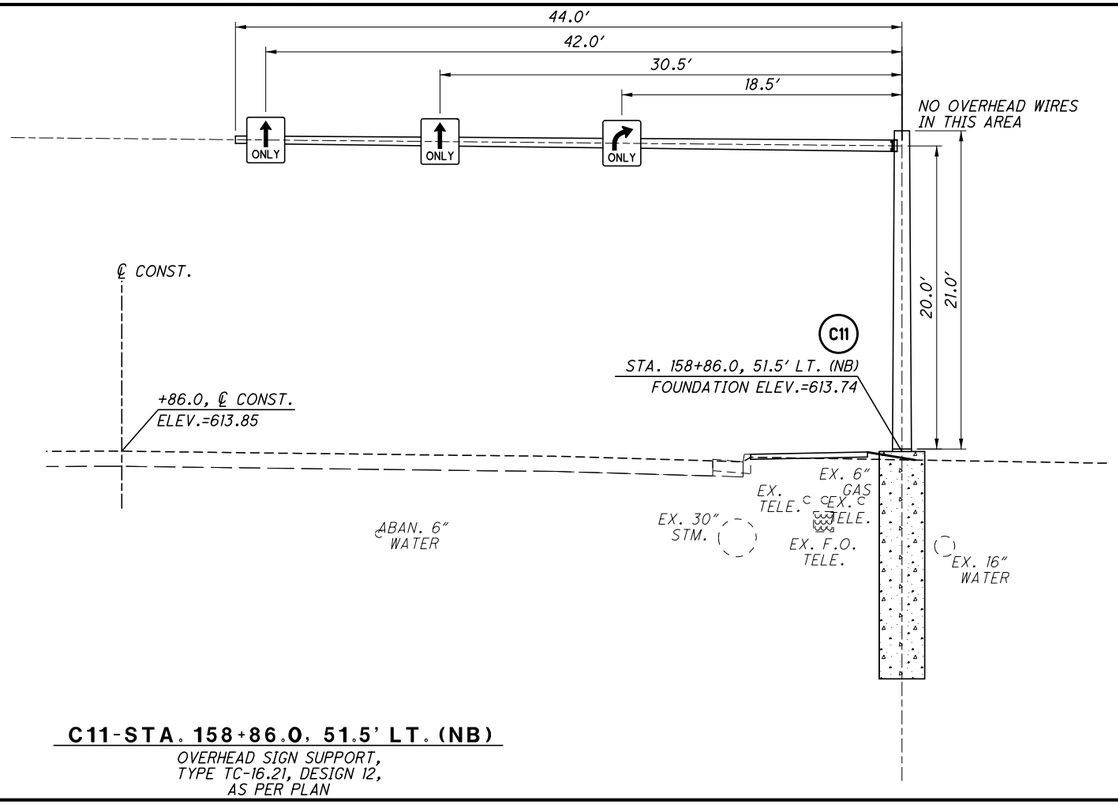
C9-STA. 141+49.0, 49.5' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN



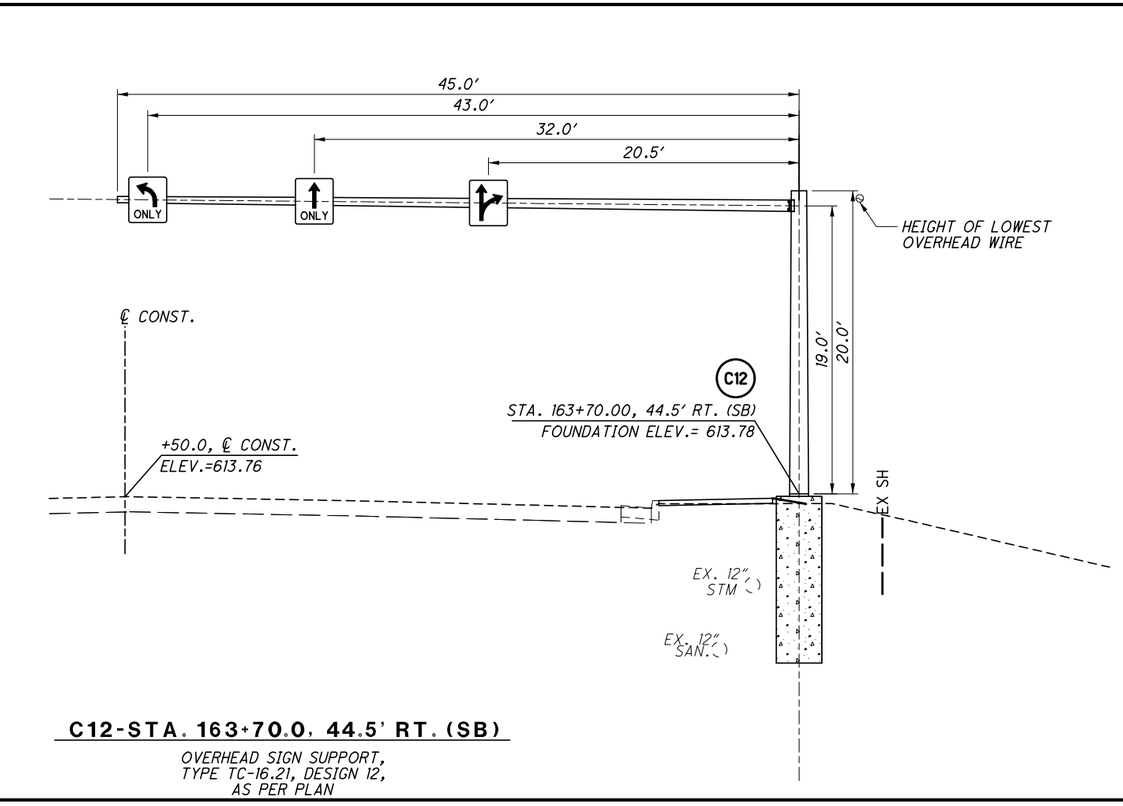
C10-STA. 151+00.0, 43.5' RT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 12,
AS PER PLAN



C11-STA. 158+86.0, 51.5' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 12,
AS PER PLAN



C12-STA. 163+70.0, 44.5' RT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 12,
AS PER PLAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED

CHECKED

OVERHEAD SIGN SUPPORT ELEVATIONS

ERI-250-0.00

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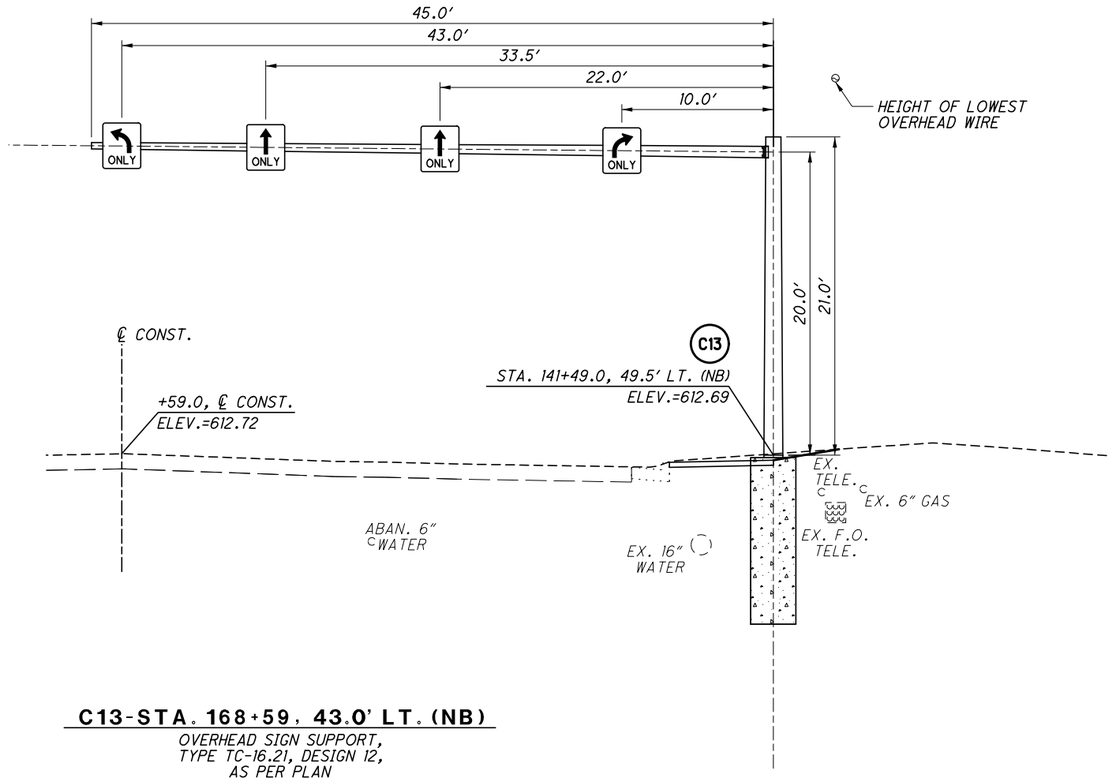
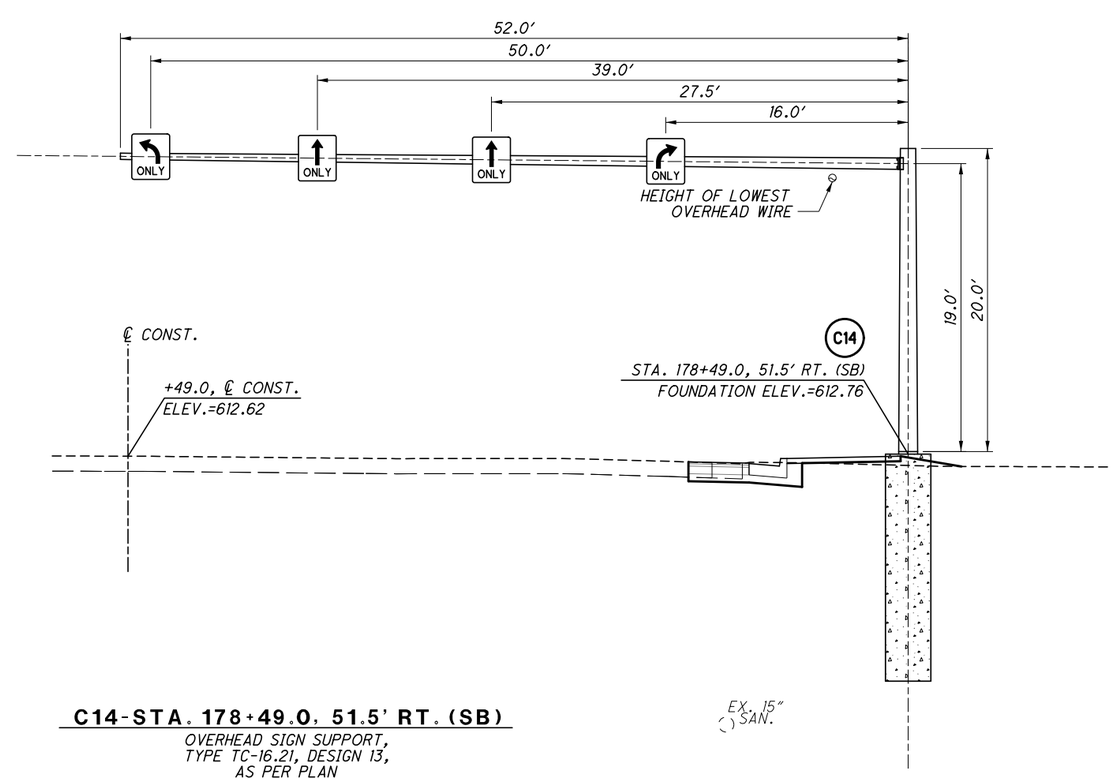


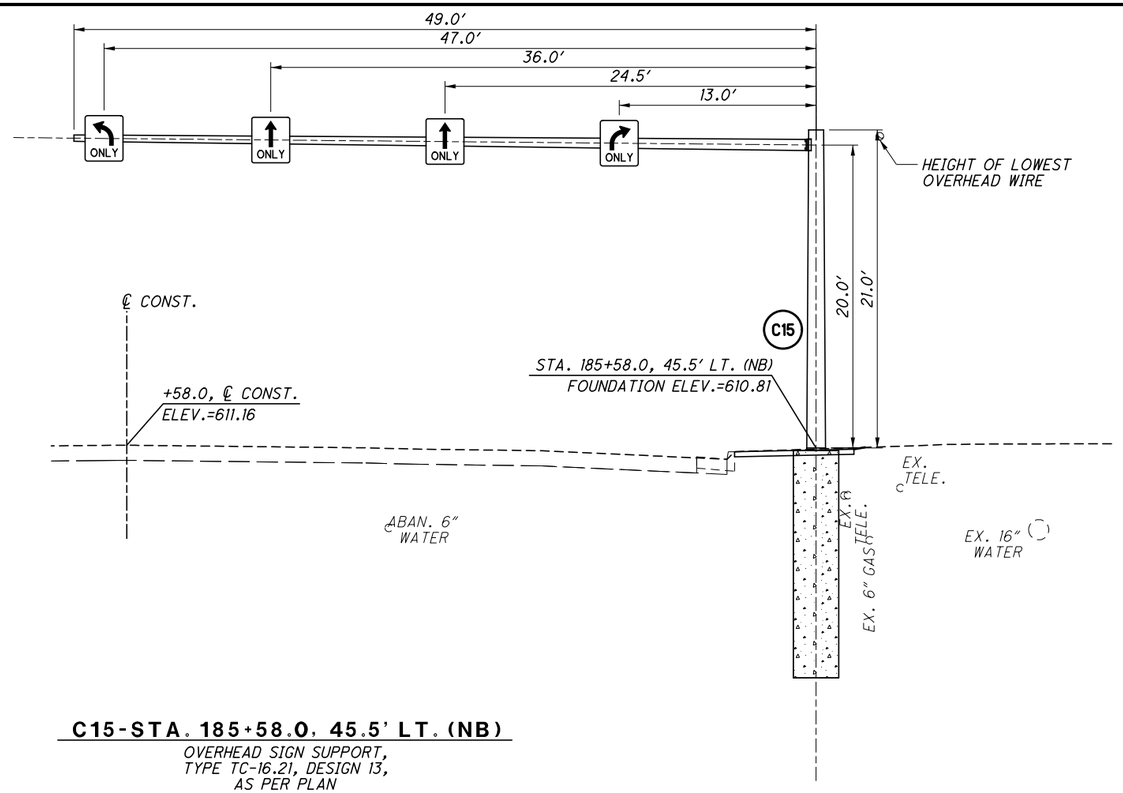
C13-STA. 168+59, 43.0' LT. (NB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 12, AS PER PLAN



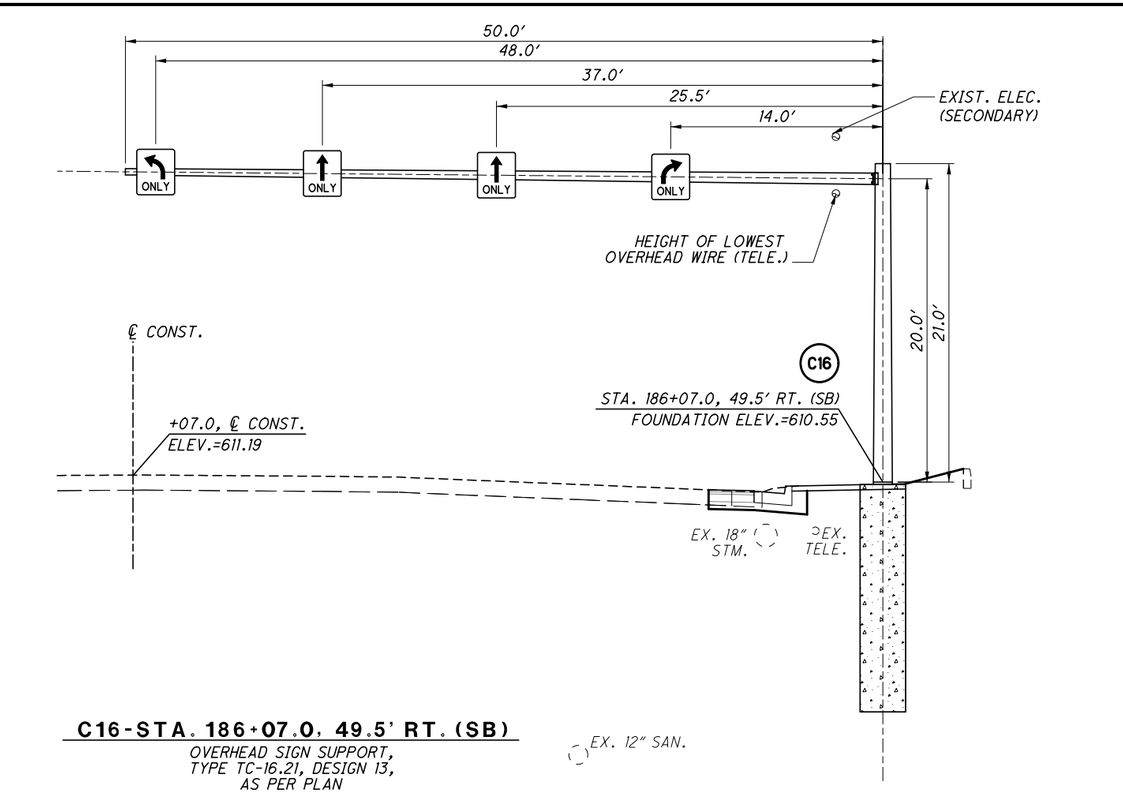
C14-STA. 178+49.0, 51.5' RT. (SB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN



C15-STA. 185+58.0, 45.5' LT. (NB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN



C16-STA. 186+07.0, 49.5' RT. (SB)

OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED | CHECKED

OVERHEAD SIGN SUPPORT ELEVATIONS

ERI-250-0.00

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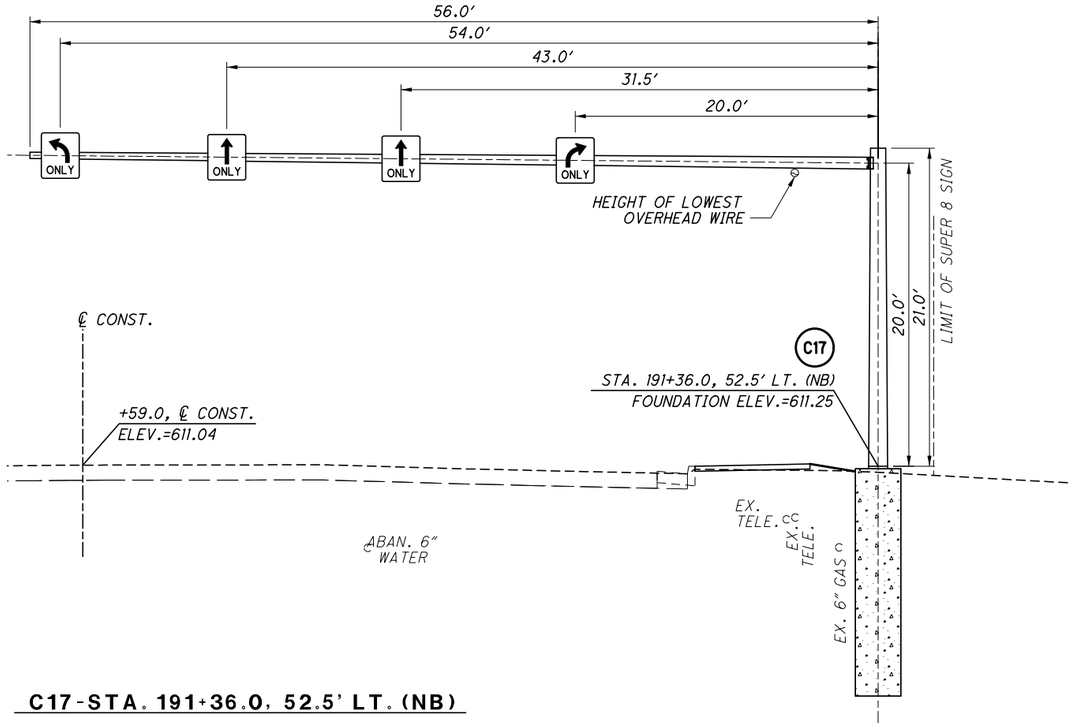
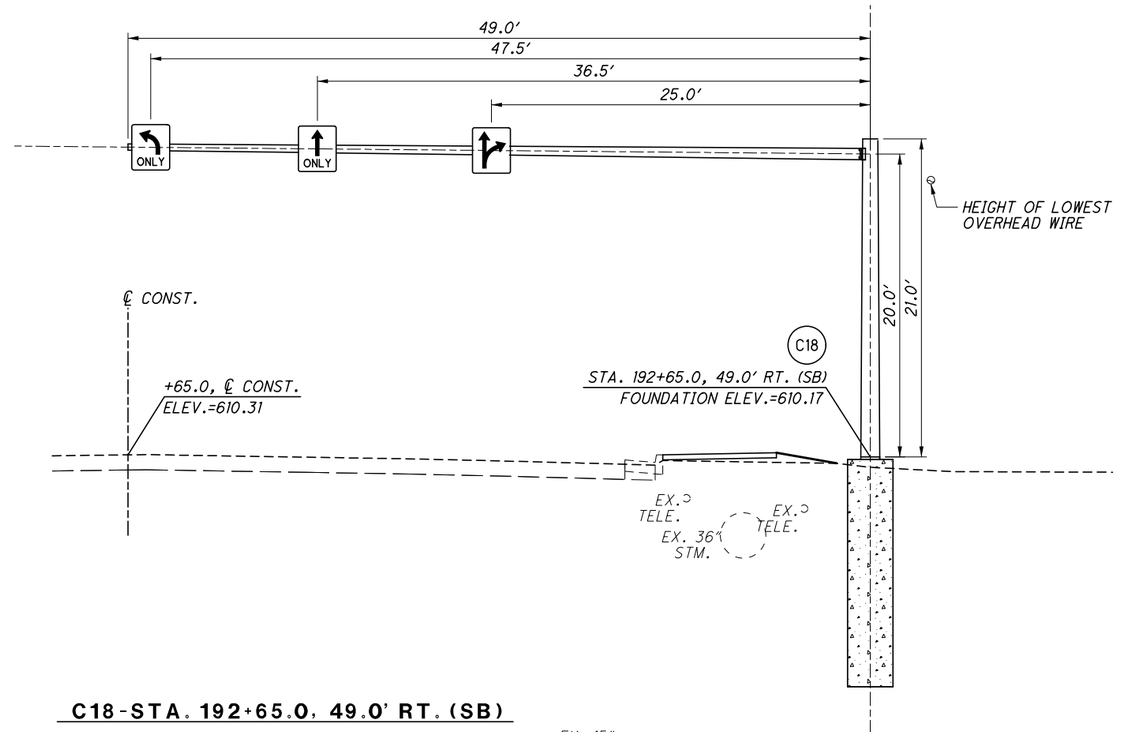


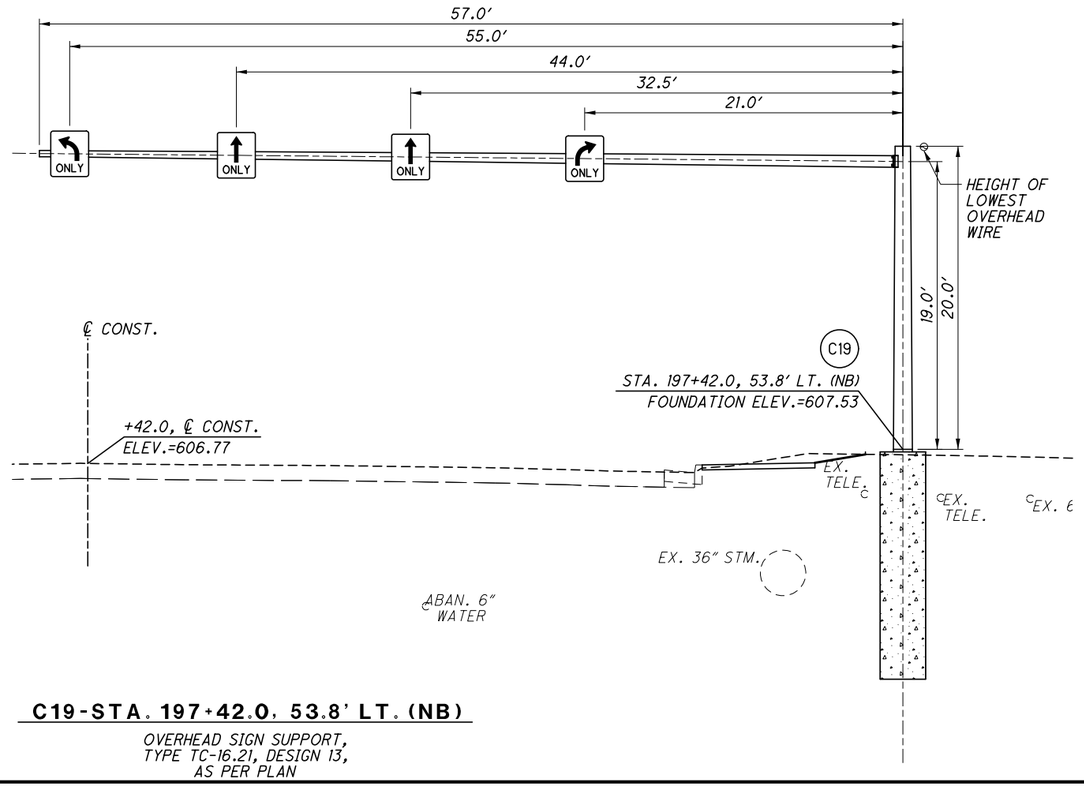
C17-STA. 191+36.0, 52.5' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN



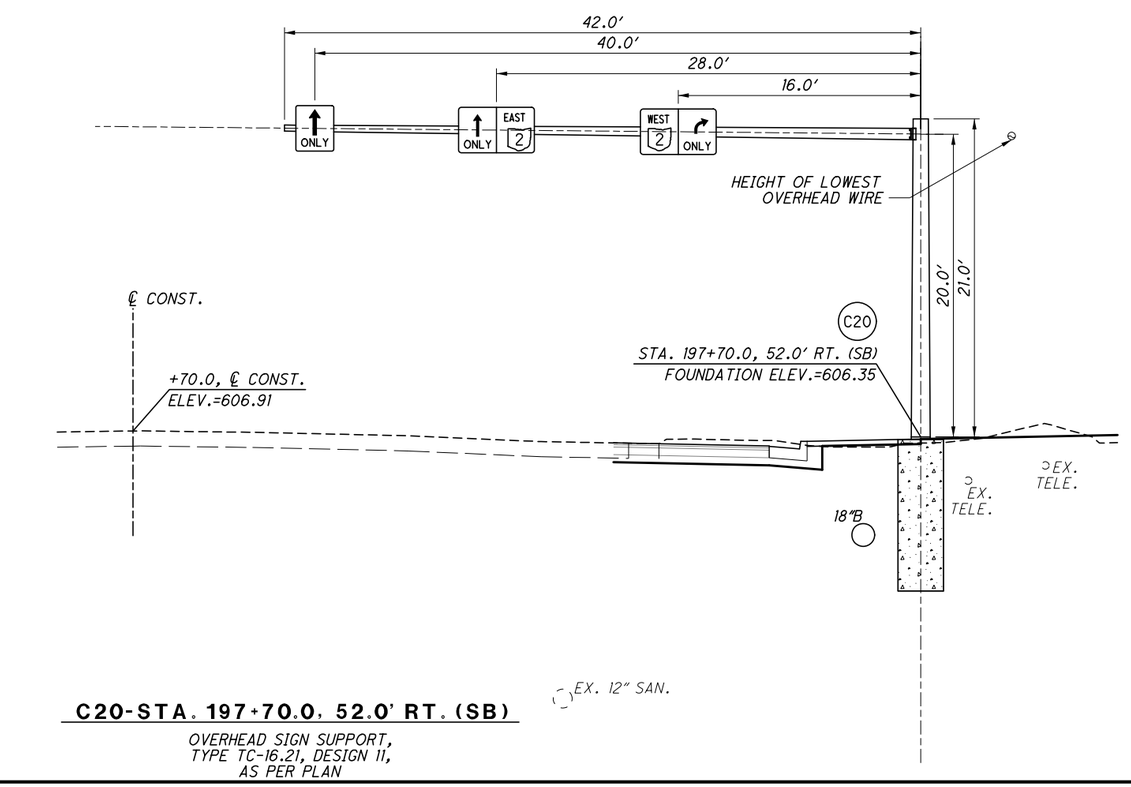
C18-STA. 192+65.0, 49.0' RT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN



C19-STA. 197+42.0, 53.8' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN



C20-STA. 197+70.0, 52.0' RT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 11,
AS PER PLAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED | CHECKED

OVERHEAD SIGN SUPPORT ELEVATIONS

ERI-250-0.00

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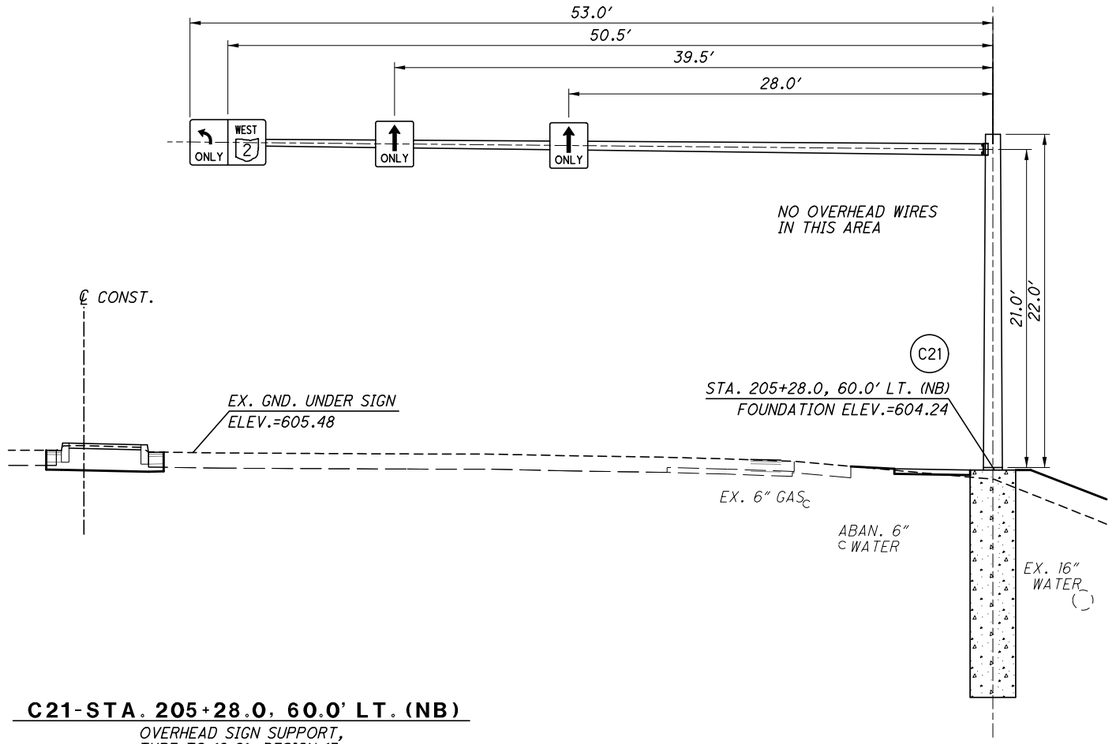
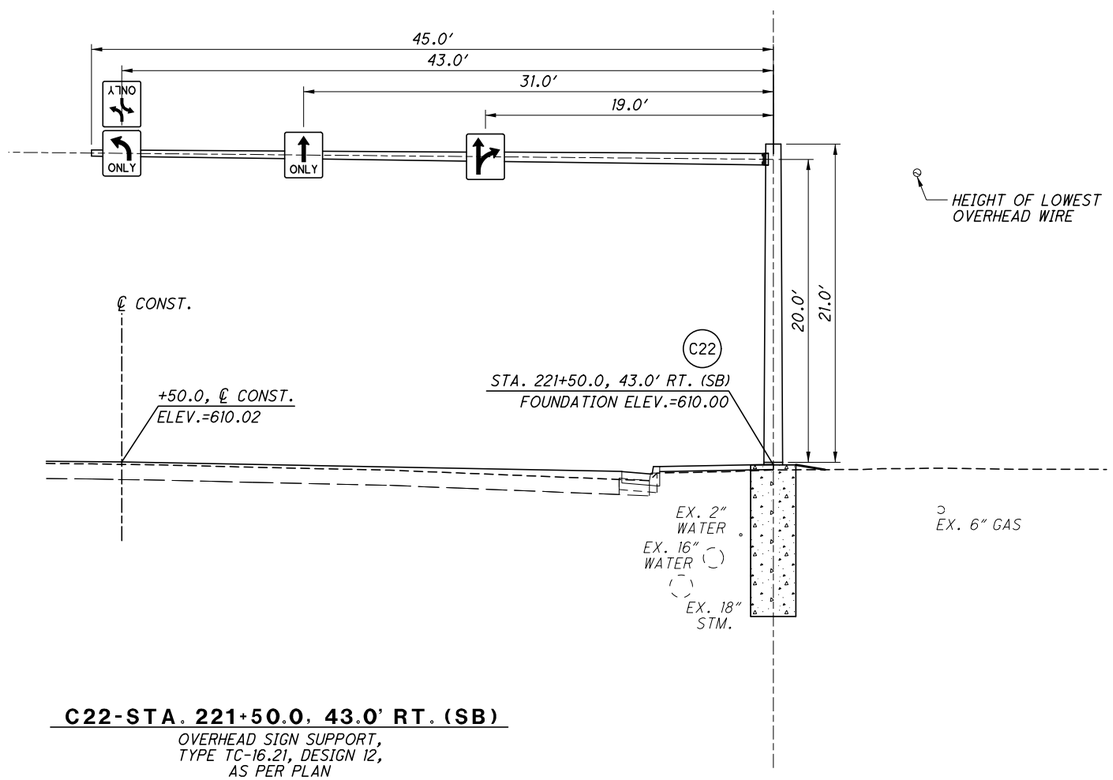


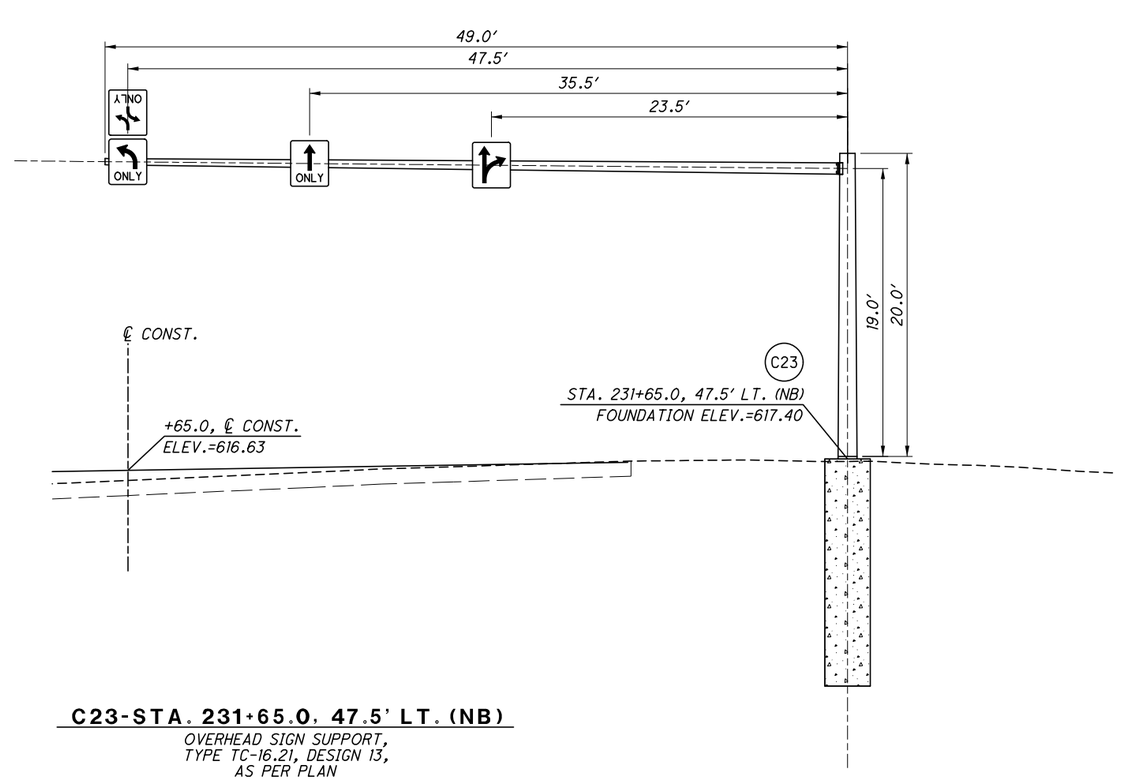
C21-STA. 205+28.0, 60.0' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN



C22-STA. 221+50.0, 43.0' RT. (SB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 12,
AS PER PLAN



C23-STA. 231+65.0, 47.5' LT. (NB)

OVERHEAD SIGN SUPPORT,
TYPE TC-16.21, DESIGN 13,
AS PER PLAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED | CHECKED

OVERHEAD SIGN SUPPORT ELEVATIONS

ERI-250-0.00

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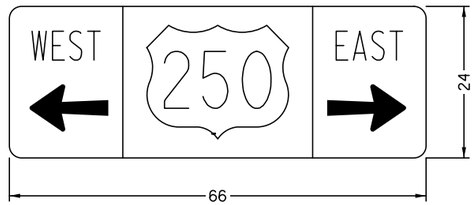
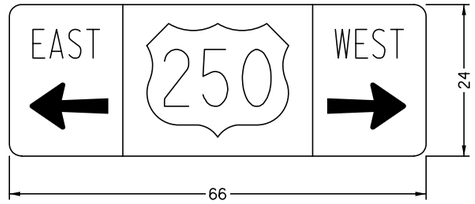
SIGNAL SUPPORT MOUNTED SIGNS

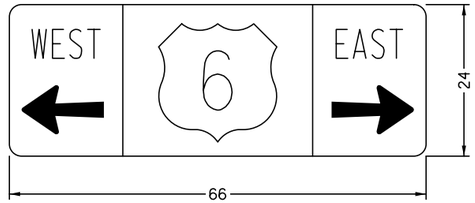
SIGNAL SHEET	INTERSECTION	SIGN PLAN SHEET	SIGN REFERENCE NO.	SIGNAL REFERENCE NO.	SIZE			LEGEND	QUANTITY	MOUNTING	630 SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN (SQ FT)	630 SIGN ATTACHMENT ASSEMBLY, AS PER PLAN (2 PER SIGNAL SUPPORT SIGN) (EACH)	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN (EACH)
432	US-6			S1, S3	81	x	18	Cleveland Rd	2	ARM	20.25	4	-
432	US-6			S4H	96	x	18	Sycamore Line	1	POLE	12.00	2	1
432	US-6			S2H	96	x	18	Sycamore Line	1	POLE	12.00	2	1
432	US-6	387	S10	S3H	66	x	24	M2-H7-66	1	POLE	11.00	2	1
442	N. MALL			S1, S3	72	x	18	Mall Blvd	2	ARM	18.00	4	-
442	N. MALL			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
442	N. MALL	392	S10, S9	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
447	S. MALL			S1, S3	84	x	18	S Mall Blvd	2	ARM	21.00	4	-
447	S. MALL			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
447	S. MALL	393	S21, S20	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
452	HULL			S1, S3	66	x	18	Hull Rd	2	ARM	16.50	4	-
452	HULL			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
452	HULL	393	S23, S22	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
457	N. MEIJER			S1, S3	57	x	18	N Meijer	2	ARM	14.25	4	-
457	N. MEIJER			S4	54	x	18	Milan Rd	1	ARM	6.75	2	-
457	N. MEIJER	394	S3	S4H	66	x	24	M2-H7-66	1	POLE	11.00	2	1
462	S. MEIJER			S1, S3	57	x	18	S Meijer	2	ARM	14.25	4	-
462	S. MEIJER			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
462	S. MEIJER	395	S15, S14	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
467	CROSSINGS			S1, S3	102	x	36	Crossings / N Park	2	ARM	51.00	4	-
467	CROSSINGS			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
467	CROSSINGS	397	S20, S19	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
472	FUN			S1, S3	60	x	18	Fun Dr	2	ARM	15.00	4	-
472	FUN			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
472	FUN	397	S22, S21	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
477	S. PARK			S1H	102	x	36	Bay Winds / S Park	1	POLE	25.50	2	1
477	S. PARK			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
477	S. PARK			S3	102	x	36	Bay Winds / S Park	1	ARM	25.50	2	-
477	S. PARK	398	S35, S8	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
482	SR-2 WB			S3	54	x	18	Milan Rd	1	ARM	6.75	2	-
				S1	30	x	42		1	ARM	8.75	2	-
487	SR-2 EB			S2	54	x	18	Milan Rd	1	ARM	6.75	2	-
492	BOGART			S1, S3	63	x	18	Bogart Rd	2	ARM	15.75	4	-
492	BOGART			S2, S4	54	x	18	Milan Rd	2	ARM	13.50	4	-
492	BOGART	401	S13, S12	S2H, S4H	66	x	24	M2-H7-66	2	POLE	22.00	4	2
TOTALS TO TRAFFIC CONTROL GENERAL SUMMARY											596	120	21



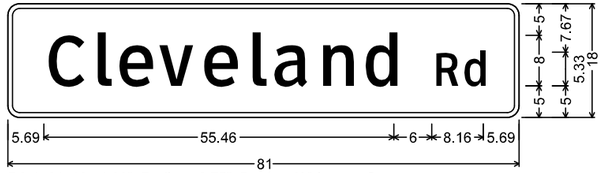
M2-H7-66



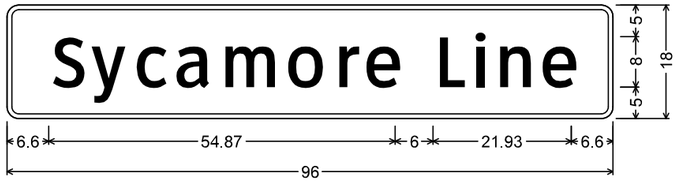
M2-H7-66



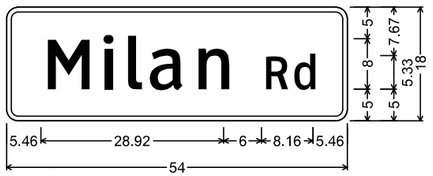
M2-H7-66 (S3H SHEET 432.)



D3-1 81x18; 1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W

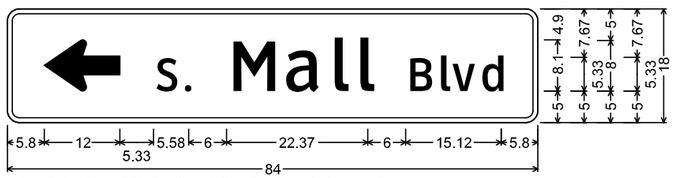


D3-1 96x18; 1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W

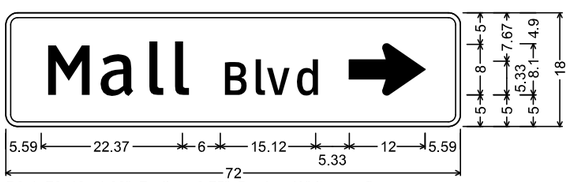


D3-1 54x18;
1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W

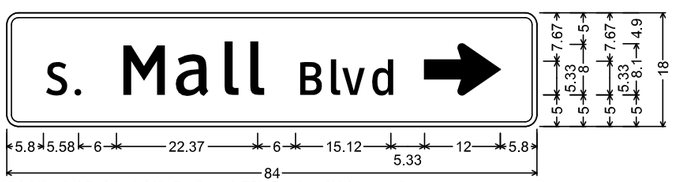
D3-1 72x18; 1.88" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 12.00" X 8.10" 180°;
ClearviewHwy-3-W



D3-1 84"x18"; 1.88" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 12.00" X 8.10" 180°; ClearviewHwy-3-W



D3-1 72x18; 1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W;
Standard Arrow Custom 12.00" X 8.10" 0°



D3-H3a_VARx24; 1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W; Standard Arrow Custom 12.00" X 8.10" 0°

CALCULATED | CHECKED

SIGNAL SUPPORT MOUNTED SIGNS

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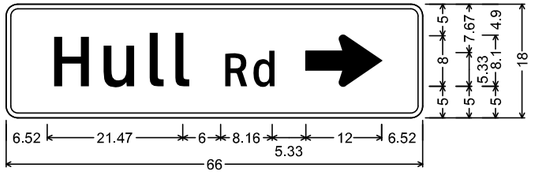
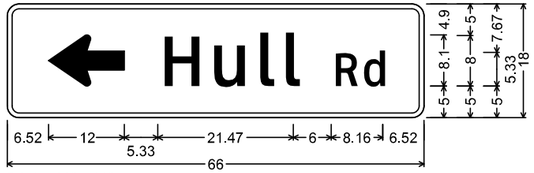


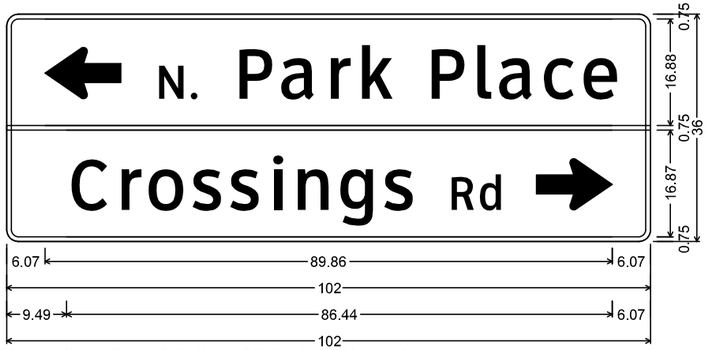
D3-1 66" x18";
1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W;
Standard Arrow Custom 12.00" X 8.10" 0°



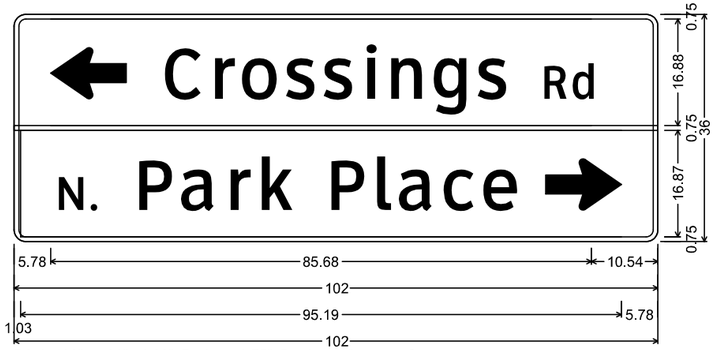
D3-1 66" x18";
1.88" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 12.00" X 8.10" 180°;
ClearviewHwy-3-W

D3-1 57" x 18";
1.88" Radius, 0.75" Border, White on Green;
[S.] ClearviewHwy-3-W;
[Meijer] ClearviewHwy-3-W;

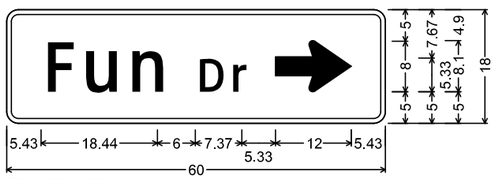
D3-1 57" x 18";
1.88" Radius, 0.75" Border, White on Green;
[N.] ClearviewHwy-3-W;
[Meijer] ClearviewHwy-3-W;



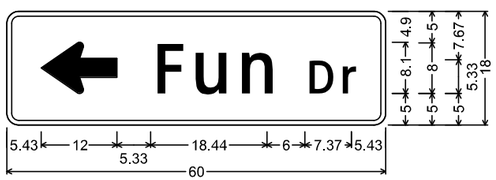
D3-1 102" x 36"; 1.88" Radius, 0.75" Border, White on Green;



D3-1 102" x 36"; 1.88" Radius, 0.75" Border, White on Green;



D3-1 60" x18";
1.88" Radius, 0.75" Border, White on Green;
ClearviewHwy-3-W;
Standard Arrow Custom 12.00" X 8.10" 0°



D3-1 60" x18";
1.88" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 12.00" X 8.10" 180°;
ClearviewHwy-3-W

CALCULATED | CHECKED

SIGNAL SUPPORT MOUNTED SIGNS

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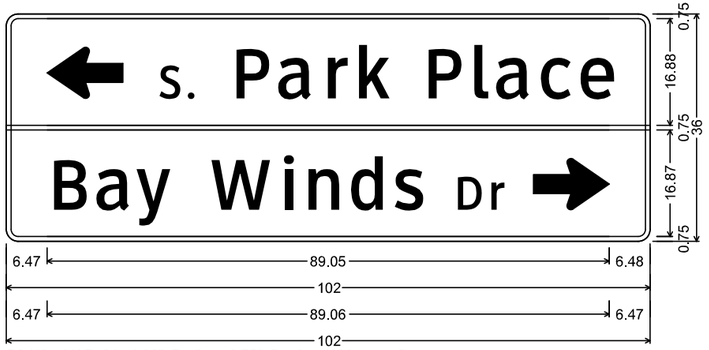

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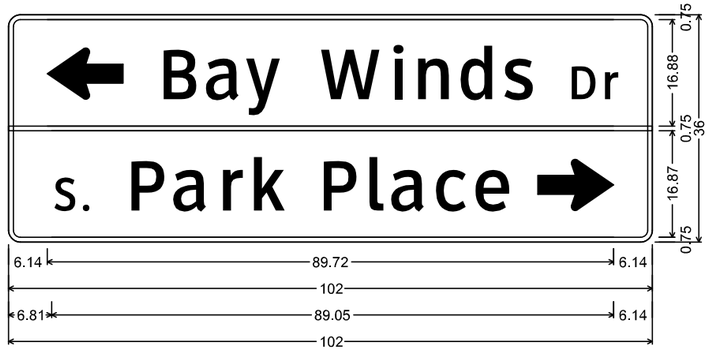

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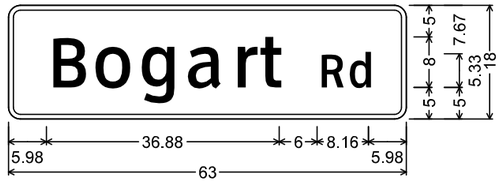

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SIGNAL SUPPORT MOUNTED SIGNS

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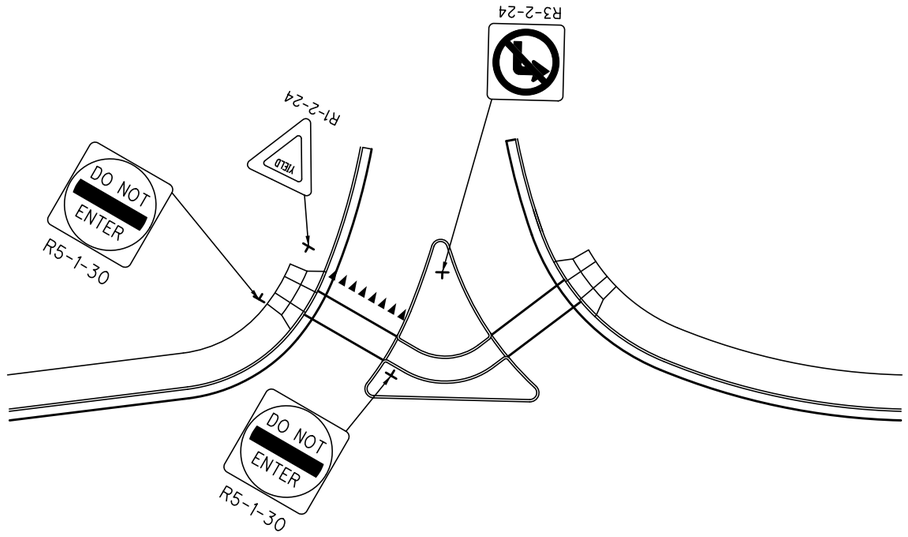
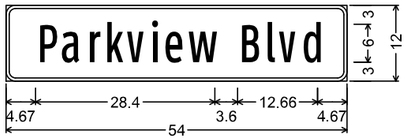


RIGHT IN/RIGHT OUT DETAIL
N.T.S

ITEM 630 - SIGN, FLAT SHEET =15.7 SF
ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST =50.7 FT



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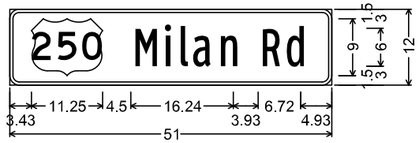

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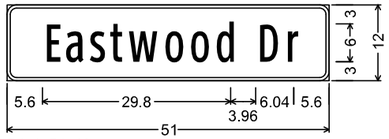

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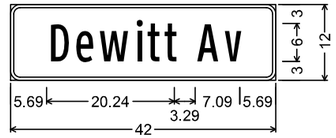

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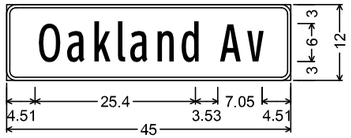

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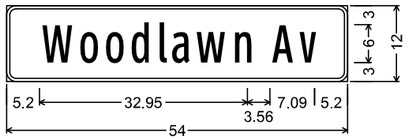

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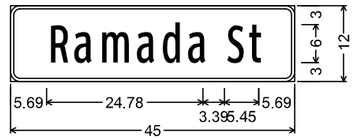

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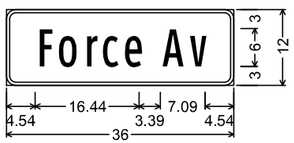

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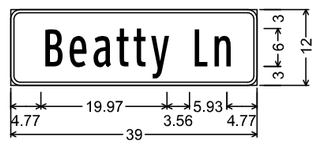

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WORK INSPECTION FOR TRAFFIC SIGNALS

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH 72 HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SITE(S) SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

SIGNAL PLAN NUMBERING CONVENTIONS

PLAN NORTH IS FROM BOGART ROAD TO CLEVELAND ROAD, AND IS SHOWN NEAR THE TRUE NORTH ARROW ON EACH PLAN SHEET.

AT EACH SIGNALIZED CROSSROAD, THE SIGNAL SUPPORTS ARE DESIGNATED AS M1 IN THE NORTHEAST QUADRANT, M2 IN THE SOUTHEAST QUADRANT, M3 IN THE SOUTHWEST QUADRANT, AND M4 IN THE NORTHWEST QUADRANT. IF NO SIGNAL SUPPORT IS LOCATED IN THE QUADRANT, THE DESIGNATION IS NOT USED.

TRANSFORMER BASE PEDESTALS ARE DESIGNATED THE LETTER T AND NUMBER STARTING WITH NUMBER 5, BEGINNING IN THE NORTHEAST QUADRANT CLOCKWISE TO THE NORTHWEST QUADRANT.

SIGNAL ITEMS ASSOCIATED WITH POLES ARE DESIGNATED BY THE FOLLOWING LETTERS PLUS THE NUMBER OF THE ASSOCIATED SIGNAL SUPPORT OR PEDESTAL.

W WALK/DON'T WALK PEDESTRIAN SIGNAL HEADS,
P PEDESTRIAN PUSHBUTTON
A ADVANCE RADAR DETECTOR
R RADAR DETECTOR, STOP LINE
S SIGN L LIGHTING BRACKET ARM AND LUMINAIRE

SUFFIX LETTERS FROM A TO G ARE USED AFTER THE POLE NUMBER AS NEEDED FOR MULTIPLE ITEMS ON THE SAME POLE.

A SUFFIX OF H DESIGNATES VEHICULAR OR PEDESTRIAN SIGNAL HEADS, OR SIGNS MOUNTED ON THE VERTICAL STEEL POLE.

CONDUIT AND PULLBOXES ARE DESIGNATED USING THE LETTERS C AND B AND NUMBERED INDEPENDENT OF THE POLES BEGINNING WITH ONE IN THE NORTHEAST QUADRANT, INCREASING CLOCKWISE TO THE NORTHWEST QUADRANT.

UTILITY COORDINATION

THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS WITH EACH INDIVIDUAL UTILITY COMPANY, AS NEEDED. SEE THE ROADWAY GENERAL NOTES FOR CONTACT INFORMATION.

ITEM 614 - EXISTING TRAFFIC SIGNALS KEPT IN OPERATION

IN ADDITION TO THE PLAN NOTE FOR MAINTENANCE OF TRAFFIC SIGNAL/ FLASHER INSTALLATIONS, THE CONTRACTOR SHALL MAINTAIN AND KEEP OPERATIONAL THE EXISTING TRAFFIC SIGNALS UNTIL ALL OTHER NEW EQUIPMENT HAS BEEN INSTALLED AND IS FUNCTIONAL. WORK SHALL INCLUDE ANY MODIFICATIONS TO EXISTING OR TEMPORARY TRAFFIC SIGNAL INSTALLATIONS AS REQUIRED BY CHANGES IN CONSTRUCTION OR OPERATIONAL CONDITIONS IN THE PROJECT AREA THROUGHOUT THE CONTRACT PERIOD.

THIS SHALL INCLUDE RELOCATIONS, REMOVALS, AND COVERING OF VEHICULAR/ PEDESTRIAN SIGNAL HEADS; COVERING OF SIGNS; TIMING ADJUSTMENTS, AND THE INSTALLATION OF ANY TEMPORARY SIGNAL EQUIPMENT AND TEMPORARY DETECTION TO SATISFY THE SAFETY AND OPERATIONAL CONDITIONS THROUGHOUT THE PROJECT.

THE USE OF EXISTING SIGNAL POLES OR INSTALLATION OF TEMPORARY OR PROPOSED SIGNAL POLES WILL BE PERMITTED TO MAINTAIN THE SIGNAL. ANY NECESSARY POLE GUYS SHALL BE INSTALLED. WHEN INSTALLING FOUNDATIONS IN CLOSE PROXIMITY TO EXISTING POLES OR PEDESTALS, PROVIDE SHORING OR BRACING AS REQUIRED TO PREVENT MOVEMENT OF THE EXISTING POLE.

THIS WORK SHALL BE PERFORMED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER, AND SHALL BE INCLUDED IN THE LUMP SUM PAYMENT FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 - TRAFFIC SIGNAL INSPECTION AND ACTIVATION

FOLLOWING COMPLETION OF THE SIGNAL WORK, THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER TO PLACE THE NEW TRAFFIC SIGNAL IN COVERED FLASH MODE OPERATION. THE CONTRACTOR SHALL CONTACT DISTRICT THREE TRAFFIC AT (419) 207-7168 AT LEAST THREE WORKING DAYS IN ADVANCE.

THE CONTRACTOR SHALL PLACE THE NEW TRAFFIC SIGNAL IN COVERED FLASH MODE OPERATION FOR A PERIOD OF FIVE (5) TO TEN (10) DAYS AS DIRECTED BY THE ENGINEER.

THE ENGINEER WILL CONDUCT AN OPERATION AND ELECTRICAL INSPECTION OF THE TRAFFIC SIGNAL DURING OR FOLLOWING THE PERIOD OF COVERED FLASH MODE OPERATION. ANY OPERATIONAL DEFICIENCIES SHALL BE CORRECTED PRIOR TO PLACING THE NEW TRAFFIC SIGNAL IN STOP-AND-GO OPERATION.

STOP-AND-GO OPERATION SHALL NOT BEGIN ON A WEEKEND, MONDAY, FRIDAY, OR ANY DAY BEFORE OR AFTER A STATE OBSERVED HOLIDAY UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE CONTRACTOR SHALL ACTIVATE THE NEW TRAFFIC SIGNALS PER THE REQUIREMENTS OF SCD MT-120.00 EXCEPT THE CONTRACTOR SHALL INSTALL FLAGS ON THE SIDE ROAD "SIGNAL AHEAD" WARNING SIGN(S).

FLAGGERS SHALL STOP ALL TRAFFIC DURING THE SWITCHOVER FROM OLD TO NEW SIGNALS.

TRAFFIC SHALL REMAIN STOPPED UNTIL THE NEW SIGNAL HAS SUCCESSFULLY COMPLETED ONE FULL CYCLE AND DETERMINATION HAS BEEN MADE BY THE ENGINEER THAT THE SIGNAL OPERATION IS SATISFACTORY AFTER WHICH THE FLAGGERS CAN REOPEN THE ROAD TO TRAFFIC. OLD SIGNAL HEADS SHALL BE COVERED OR PROMPTLY REMOVED WHEN NO LONGER IN SERVICE.

PAYMENT FOR ALL OF THE ABOVE DESCRIBED WORK SHALL BE INCLUDED WITH ITEM 614, MAINTAINING TRAFFIC.

ITEM 632 - REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

ALL EXISTING TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN OR SUPPORT POLES, POWER SERVICE, CABINET, CONTROLLER, AND SIGNS ON THE SIGNAL SUPPORTS SHALL BE REMOVED IN ACCORDANCE WITH CMS 632.26, EXCEPT AS INDICATED BELOW.

REMOVAL OF EXISTING POLE FOUNDATIONS AT LEAST 12 INCHES BELOW EXISTING GROUND (PER 632.06) AND SURFACE RESTORATION ARE INCLUDED IN THIS ITEM.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL THE LOCATIONS WHERE THE TRAFFIC SIGNAL EQUIPMENT IS TO BE REMOVED.

EARTH AREAS DISTURBED FROM REMOVAL OF THE TRAFFIC SIGNAL INSTALLATION SHALL BE RESTORED WITH ITEM 659 SEEDING AND MULCHING AS PART OF THIS ITEM IF NOT OTHERWISE ITEMIZED.

WHEN NO LONGER NEEDED FOR OPERATION OF THE EXISTING SIGNALS, EXISTING PULL BOXES WILL BE REMOVED SEPARATELY AND PAID FOR UNDER ITEM 625 PULL BOX REMOVED.

THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ITEMS OF ALL SIGNAL INSTALLATIONS REMOVED WITH THE EXCEPTION OF THE FOLLOWING ITEMS TO BE SALVAGED:

ECONOLITE CONTROLLERS,
RAVEN MODEMS, CABLES, ANTENNA AND APPURTENANCES
MASTER CONTROLLER,
MONITORS,
SPREAD SPECTRUM RADIO MODEMS, POWER SUPPLIES AND ANTENNAS,
ETHERNET RADIOS
VIDEO DETECTION CAMERAS, INTERFACE PANELS AND HUBS

AT THESE INTERSECTIONS:

NORTH MALL DR.
SOUTH MALL DR.
HULL RD.
NORTH MEIJER DR.
SOUTH MEIJER
DR. CROSSINGS RD. / NORTH PARK PLACE
FUN DRIVE
BAY WINDS DR. / SOUTH PARK PLACE
SR-2 WB RAMP
SR -2 EB RAMP
BOGART ROAD

THE SALVAGED ITEMS SHALL BE DELIVERED TO THE ODOT ERIE COUNTY GARAGE, 165 S. HURON STREET, MILAN, OH 44846, (419) 499-2351. THE CONTRACTOR SHALL PROVIDE AT LEAST SEVEN CALENDAR DAYS NOTICE OF DELIVERY SO THAT ODOT STAFF CAN BE SCHEDULED TO HELP UNLOAD THE SALVAGED ITEMS.

PAYMENT FOR ITEM 632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN, SHALL BE AT THE CONTRACT UNIT PRICE BID PER EACH, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS.

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SIGNAL GENERAL NOTES

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ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM (COMMUNICATION EQUIPMENT)

ALL COMPONENTS OF THE EXISTING REMOTE COMMUNICATIONS INSTALLATION NOT REQUIRED FOR THE PROPOSED ETHERNET NETWORK SHALL BE REMOVED AND SALVAGED AT THESE INTERSECTIONS:

STRUB ROAD
DEWITT AVENUE

THE SALVAGED COMPONENTS SHALL BE DELIVERED TO THE ODOT ERIE COUNTY GARAGE, 165 S. HURON STREET, MILAN, OH 44846, (419) 499-2351. THE CONTRACTOR SHALL PROVIDE AT LEAST SEVEN CALENDAR DAYS NOTICE OF DELIVERY SO THAT ODOT STAFF CAN BE SCHEDULED TO HELP UNLOAD THE SALVAGED ITEMS.

POWER SUPPLY FOR TRAFFIC SIGNALS

ELECTRIC POWER SHALL BE OBTAINED FROM THE OHIO EDISON COMPANY AT THE LOCATIONS SHOWN ON THE PLANS. POWER SUPPLY SHALL BE 120/240 VOLTS.

THE OHIO EDISON CONTACT IS JIM ROHRBACHER, 2508 WEST PERKINS ROAD, SANDUSKY, OHIO 44870, (419) 627-6881.

ITEM 632 - POWER SERVICE, AS PER PLAN

POWER SERVICE SHALL BE CONSTRUCTED PER CMS ITEM 632.24 AND THE DETAILS ON SHEET 420.

1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND.

2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASE, AND SHALL CONTACT THE METERING DEPARTMENT OF OHIO EDISON FOR INFORMATION REGARDING THE METER BASE SPECIFICATIONS AND INSTALLATION PRIOR TO ORDERING.

3. THE POWER SERVICE SHALL INCLUDE A BYPASS STYLE METER BASE SOCKET. THE METER BASE SHALL BE 100 AMP MINIMUM AND INCLUDE A 1- ½" HUB AT THE TOP OF THE METER BASE AND A LEVER BYPASS SWITCH PER THE REQUIREMENTS OF THE ELECTRICAL POWER COMPANY. THE METER BASE SOCKET SHALL BE AS MANUFACTURED BY LANDIS & GYR., MILBANK, SQUARE D, OR APPROVED EQUAL BY THE ENGINEER.

4. DISCONNECT SWITCH ENCLOSURES SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY AND SHACKLE OF BRONZE OR BRASS. KEYING SHALL BE TO THE STATE MASTER.

5. CONDUIT RISERS SHALL BE 1-½" MINIMUM DIAMETER. ALL CONDUIT AND FITTINGS SHALL BE GALVANIZED STEEL AS PER CMS 725.04.

6. THE ENCLOSURES SHALL HAVE A GLOSS HUNTER GREEN (FS595C, COLOR 14109) FACTORY APPLIED POLYESTER POWDER COAT FINISH. VISIBLE PORTIONS OF THE DISCONNECT RACK, CONDUIT AND HARDWARE SHALL BE PAINTED TO MATCH THE ENCLOSURE.

THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND PAYING OF ALL FEES RELATING TO THE POWER SERVICE CONNECTION. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE SIGNAL IS ACCEPTED BY THE MAINTAINING AGENCY. THE MAINTAINING AGENCY WILL REIMBURSE THE CONTRACTOR BY SUPPLEMENTAL AGREEMENT FOR POWER COMPANY FEES FOR ESTABLISHMENT OF SERVICE AND ELECTRICITY. THIS COMPENSATION IS FOR INVOICED COST WITHOUT MARKUP.

THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120/240 VOLTS.

ITEM 625 - CONDUIT, JACKED OR DRILLED, AS PER PLAN

THIS ITEM SHALL BE PER CMS 725.04 WHEN JACKED. DIRECTIONAL BORED CONDUIT SHALL BE PER CMS 725.051 (PVC SCHEDULE 80) OR CMS 725.052.

THE CONTRACTOR SHALL JACK OR DRILL IN PAVED AREAS BEFORE THE PAVEMENT IS RESTORED. IF JACKING OR DRILLING IS NOT POSSIBLE THE CONTRACTOR SHALL CONTACT THE ENGINEER TO COORDINATE OTHER OPTIONS. THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH TEST HOLES, WHEN NECESSARY, TO DETERMINE DEPTH OF EXISTING UTILITIES PRIOR TO INSTALLATION OF THE CONDUIT. TEST HOLES SHALL BE DONE AT EXISTING UNDERGROUND UTILITIES THAT ARE IN CONFLICT WITH THE PROPOSED CONDUIT.

PAYMENT WILL BE MADE AT CONTRACT UNIT PRICE PER LINEAR FOOT.

ITEM 611 - UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO THE STANDARD CONSTRUCTION DRAWING FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. AN ESTIMATED QUANTITY OF TWENTY FEET PER PULLBOX IS INCLUDED IN THE ESTIMATED QUANTITIES AND IS CARRIED TO THE SIGNAL GENERAL SUMMARY FOR THIS PURPOSE.

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.

A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.

B. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.

C. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED, SIZED PER THE NEC.

D. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN EACH OF THE CONDUITS.

2. CONDUITS

A. THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.

B. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.

C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.

D. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.

3. WIRE FOR GROUNDING AND BONDING

A. USE INSULATED COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:

I. USE 4 AWG BETWEEN THE POWER SERVICE, DISCONNECT RACK, SIGNAL SUPPORTS, PEDESTALS AND CONTROLLER CABINET.

II. THE INSULATION SHALL BE GREEN OR GREEN WITHYELLOW STRIPE(S). FOR 4 AWG OR LARGER; INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS.

B. IN THE HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE A MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.

4. GROUND ROD

A. A ¾ INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TOTHE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.

B. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED COPPER.

5. THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

COND. NO.	COLOR	VEHICLE SIGNAL	PEDESTRIAN SIGNAL
1	BLACK	GREEN BALL	#1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIPT. GRD.	EQUIPT. GRD.
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	WHITE/BLACK STRIPE	YELLOW ARROW	NOT USED

6. POWER SERVICE AND DISCONNECT SWITCH.

A. AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPICE.

B. THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH.

I. NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.

II. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.

7. PAYMENT FOR ALL MATERIALS AND WORK REQUIRED TO COMPLETE THEEFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

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SIGNAL GENERAL NOTES

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ITEM 633 - PREEMPTION DETECTOR CABLE

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING PREEMPTION DETECTOR HOME RUN CABLE IN THE LOCATIONS SHOWN IN THE PLANS. IT WILL BE USED FOR CONNECTIONS OF FUTURE PREEMPT RECEIVING UNITS TO PHASE SELECTORS IN THE LOCAL CONTROLLER CABINET. THE WIRE SHALL BE GROUNDED AT THE CONTROLLER FOR THE INTERIM.

PREEMPTION DETECTOR CABLE SHALL CONFORM TO ODOT SPECIFICATION 632. ONLY ONE EXTERNAL SPLICE SHALL BE PERMITTED BETWEEN FUTURE PREEMPTION RECEIVER UNIT ON THE MAST ARM AND CONTROLLER CABINET. THIS SPLICE SHALL MEET THE REQUIREMENTS OF CMS 632.23 USING A WATERPROOF EPOXY SPLICE KIT. THE CABLE SHALL BE APPROVED FOR BOTH OVERHEAD AND UNDERGROUND USE. THE JACKET SHALL WITHSTAND EXPOSURE TO SUNLIGHT AND ATMOSPHERIC TEMPERATURES AND STRESSES REASONABLY EXPECTED IN NORMAL INSTALLATIONS.

PAYMENT FOR ITEM 633 - PREEMPTION DETECTOR CABLE, SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT FOR THE CABLE FURNISHED, IN PLACE, WITH ALL CONNECTIONS MADE AND WIRING COMPLETED, TESTED AND ACCEPTED.

ITEM 633 - CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS2, AS PER PLAN

IN ADDITION TO ITEM 633.06 AND ITEM 733.02, THIS SPECIFICATION SHALL GOVERN WHERE DIFFERENCES OCCUR IN THE ODOT STANDARD CONSTRUCTION AND MATERIAL SPECIFICATION.

LOCAL CONTROLLER EQUIPMENT - THE CONTROLLER UNIT SUPPLIED SHALL BE AN ECONOLITE ASC3-2100, TS2, TYPE 2 CONTROLLER MANUFACTURED BY ECONOLITE CONTROL PRODUCTS, INC. OF ANAHEIM, CALIFORNIA.

THE CONTROLLER FIRMWARE SHALL BE CENTRACS ADAPTIVE ENABLED.

SUPPORT AND AN ON-CALL REPRESENTATIVE SHALL BE PROVIDED BY THE MANUFACTURER'S REPRESENTATIVE FOR A PERIOD OF FIVE YEARS BEGINNING AFTER FINAL ACCEPTANCE.

PROVIDE AN ETHERNET PORT ON FRONT PANEL OF ALL CONTROLLER UNITS.

CABINET - THE CABINET SHALL CONFORM TO 733.03B , NEMA TYPE TS-2, AND BE SIZE 7 FOR THE MAIN CABINET COMPARTMENT PER 733.03B(1)H. THE SIZE 7 CABINET SHALL HAVE THE SAME REQUIREMENTS AS SIZE 6, HOWEVER SHALL INCLUDE AN ADDITIONAL SHELF FOR ANY COMMUNICATION OR ADAPTIVE CONTROL HARDWARE

THE CABINET SHALL HAVE A GLOSS HUNTER GREEN (FS595C, COLOR 14109) FACTORY APPLIED POLYESTER POWDER COAT FINISH. THE CABINET SHALL CONTAIN TWO INDIVIDUAL COMPARTMENTS. EACH COMPARTMENT SHALL INCLUDE A LIGHT, DOOR STOP MECHANISM, VENT, FILTER, FAN AND THERMOSTAT. EACH COMPARTMENT SHALL BE INDIVIDUALLY KEYED TO THE STATE MASTER #2 LOCK. TWO KEYS SHALL BE SUPPLIED.

THE MAIN COMPARTMENT SHALL BE FURNISHED WITH TWO REMOVABLE SHELVES MOUNTED ON ADJUSTABLE CHANNELS. ALL MOUNTING HARDWARE SHALL BE INCLUDED. FURNISH A SHELF AND INTEGRAL STORAGE PER 733.03B(11).

THE SECONDARY COMPARTMENT SHALL BE A MINIMUM OF 18 INCHES WIDE AND MATCH THE OTHER DIMENSIONS OF THE MAIN COMPARTMENT. THE SECONDARY COMPARTMENT SHALL CONTAIN FOUR SLIDE-OUT SHELVES FOR EASY REPLACEMENT OF BATTERY BACKUP SYSTEM.

SUBMIT CATALOG CUTS AND SHOP DRAWINGS OF THE PROPOSED CABINET, UPS, RISER AND FOUNDATION TO THE ENGINEER FOR APPROVAL BEFORE ORDERING.

ITEM 633 - CABINET FOUNDATIONS

CONSTRUCT CONTROLLER CABINET FOUNDATIONS IN ACCORDANCE WITH SHEET 421, SCD TC-83.20 AND THE CABINET AND RISER MANUFACTURER'S RECOMMENDED ANCHOR BOLT LAYOUT.

ITEM 633 - CABINET RISERS, AS PER PLAN

PROVIDE A 12 INCH HIGH RISER OF A SIZE AND SHAPE COMPATIBLE WITH THE CONTROLLER / UPS CABINET FURNISHED AT ALL LOCATIONS PER 633.09.

THE CABINET RISER SHALL HAVE A GLOSS HUNTER GREEN (FS595C, COLOR 14109) FACTORY APPLIED POLYESTER POWDER COAT FINISH MATCHING THE CABINET.

ITEM 633 - CONTROLLER WORK PADS

SIDEWALK IS PROVIDED IN THE ROADWAY PLANS FOR AREAS SHOWN AS WORK PADS IN VARIOUS STANDARD DRAWINGS. ITEM 633 CONTROLLER WORK PADS ARE NOT REQUIRED.

ITEM 633 - UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 633 AND 733, THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST UNINTERRUPTIBLE POWER SUPPLY (UPS) LED STATUS INDICATOR LAMPS THAT ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS.

A 1-INCH WATERPROOF NEMA 4X OR IP66 LAMP WITH A DOMED RED LENS SHALL BE USED TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE "BACKUP" OPERATING CONDITION). THIS LAMP SHALL BE WIRED USING MINIMUM 20 GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED "BACKUP POWER STATUS DISPLAY", WITH WIRE POLARITY INDICATED.

THIS ITEM INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THE STATUS DISPLAY SHALL BE SOLID 100% DUTY CYCLE (NOT FLASHING). THE LAMP SHALL BE PLACED IN THE UPS CABINET WALL (NOT THE ROOF) IN SUCH A MANNER AS TO BE SEALED FROM WATER INTRUSION AND VISIBLE FROM A VEHICLE AT THE STOP LINE IN THE CLOSEST LANE OF AT LEAST ONE APPROACH TO THE SIGNALIZED INTERSECTION. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC. THE TERMINALS ARE TO BE INSULATED.

EXISTING REMOTE SIGNAL COMMUNICATION

THE EXISTING REMOTE COMMUNICATIONS TO EACH INTERSECTION AND CONTROLLER SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION VIA THE EXISTING CDMA MODEM UNTIL THE WIRELESS NETWORK IS INSTALLED AND FUNCTIONAL.

ANY SIGNAL CONTROLLER USED FOR TEMPORARY SIGNALS SHALL BE COMPATIBLE WITH ECONOLITE CENTRACS AND INCLUDE AN ETHERNET PORT FOR REMOTE COMMUNICATIONS.

ITEM 632 - SIGNALIZATION MISC., ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN

ODOT SHALL PROVIDE THE NECESSARY ETHERNET RADIOS, SWITCHES, MOUNTING HARDWARE, CABLING AND ACCESSORIES TO THE CONTRACTOR FOR INSTALLATION OF AN ETHERNET NETWORK FOR TRAFFIC SIGNAL COMMUNICATION.

ETHERNET RADIOS SHALL BE INSTALLED ON THE SIGNAL SUPPORT NEAREST TO THE TRAFFIC SIGNAL CABINET, OR AS REQUIRED TO MAINTAIN LINE OF SIGHT. CONTRACTOR SHALL RUN CAT5E CABLE AND ATTACH THE RADIOS TO THE SUPPORT POLES AS DIRECTED BY ODOT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL CABLE CONNECTIONS AND / OR FIELD TERMINATIONS NECESSARY TO CONNECT THE CABLING TO THE ETHERNET RADIOS.

THE CONTRACTOR SHALL COORDINATE WITH ODOT CENTRAL OFFICE, OFFICE OF TRAFFIC OPERATIONS FOR INSTALLATION, MOUNTING AND AIMING OF THE ANTENNAS.

ODOT SHALL PROGRAM AND CONFIGURE THE RADIOS AND SYSTEM AS NEEDED. AN ODOT TRAFFIC OPERATIONS ENGINEER MUST BE ON SITE FOR AIMING OF ANTENNAS AND TO CONFIGURE THE RADIOS. CONTRACTOR SHALL PROVIDE AT LEAST A TEN BUSINESS DAY NOTICE VIA EMAIL TO THE CENTRAL OFFICE EMPLOYEES LISTED BELOW BEFORE SCHEDULING THE INSTALLATIONS.

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INTERSECTIONS SHOWN ON SHEET 419 SHALL HAVE ETHERNET RADIOS AND CABLING INSTALLED. PAYMENT SHALL BE MADE PER INTERSECTION, COMPLETE IN PLACE, TESTED AND ACCEPTED.

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ITEM 809 - ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM

THIS ITEM OF WORK SHALL BE PERFORMED BY A MANUFACTURER REPRESENTATIVE. ALL INTERSECTIONS SHALL BE INSTALLED, PLACED, AND TURNED ON IN ODOT'S CENTRACS ENTERPRISE SERVER, INCLUDING INTERSECTION GRAPHICS. THE MANUFACTURER'S REPRESENTATIVE SHALL WORK WITH ODOT CENTRAL OFFICE TRAFFIC OPERATIONS AND DISTRICT 3 TRAFFIC DEPARTMENTS THROUGHOUT THE PROCESS OF ACTIVATING AND FINE TUNING THE ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM. ITEM SHALL INCLUDE ALL ITEMS NECESSARY TO PROVIE ADAPTIVE CONTROL TO THE 13 PROPOSED INTERSECTS SHOWN ON SHEET 419. PAY ITEM SHALL INCLUDE ANY SOFTWARE, HARDWARE, DATA KEYS NECESSARY FOR THE ADAPTIVE CONTROL.

THE INTERSECTIONS SHALL FIRST BE PLACED IN MONITORING MODE FOR ONE WEEK WHILE DATA IS COLLECTED.

AFTER THE ONE WEEK DATA COLLECTION PERIOD, THE MANUFACTURER'S REPRESENTATIVE SHALL CONFIGURE, FINE TUNE, ADJUST, AND ACTIVATE THE ADAPTIVE SYSTEM IN ODOT'S CENTRACS ENTERPRISE SERVER.

AFTER THE ADAPTIVE SYSTEM HAS BEEN ACTIVATED FOR A PERIOD OF ONE WEEK, THE MANUFACTURER'S REPRESENTATIVE SHALL ADJUST, FINE TUNE, AND RECONFIGURE THE ADAPTIVE SYSTEM.

THIS ITEM OF WORK SHALL INCLUDE FOUR HOURS OF CLASSROOM TRAINING FOR UP TO TEN PEOPLE ON CENTRACS ADAPTIVE, AND SHALL BE HELD AT ODOT CENTRAL OFFICE OR DISTRICT 3.

THIS ITEM SHALL ALSO INCLUDE FIVE CENTRACS WORKSTATION LICENSES FOR USE BY ODOT OR THE CITY OF SANDUSKY.

PAYMENT SHALL BE A LUMP SUM FOR ALL INTERSECTIONS SHOWN ON SHEET 419 AND SHALL INCLUDE ALL WORK AND TRAINING DESCRIBED ABOVE TO PROVIDE AN ADAPTIVE SYSTEM IN ODOT'S CENTRAL SIGNAL SOFTWARE, FULLY FUNCTIONAL, TESTED, AND ACCEPTED, INCLUDING IMPLEMENTING PROPOSED TIMINGS FURNISHED AT THE PRE-CONSTRUCTION MEETING INTO THE CONTROLLERS BY THE CONTRACTOR'S REPRESENTATIVE.

ITEM 809 ADVANCE RADAR DETECTION, WAVETRONIX SMARTSENSOR ADVANCE

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.

- ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.

- THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.

- SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER, SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.

- THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ON SITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.

- A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET).

- THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, WAVETRONIX SMARTSENSOR ADVANCE SHALL BE MADE A THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

ITEM 809 STOP-BAR RADAR DETECTION, WAVETRONIX SMARTSENSOR MATRIX

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.

- ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.

- THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.

- SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER, SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.

- THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.

- A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET).

- THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.

PAYMENT FOR ITEM 809 STOP-BAR RADAR DETECTION, WAVETRONIX SMARTSENSOR MATRIX SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

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GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 180 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY. EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLERS AND ASSOCIATED EQUIPMENT, DETECTOR UNITS, INTERCONNECTION ITEMS AND MASTER CONTROL EQUIPMENT. CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE STATE OR THE MAINTAINING AGENCY FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

POLE FOUNDATION AND PULL BOX ELEVATIONS AT CURB RAMPS

ELEVATIONS SHOWN FOR SIGNAL SUPPORT OR PEDESTAL FOUNDATIONS SHOWN ARE EITHER THE HIGHEST CALCULATED ADJACENT PROPOSED SIDEWALK ELEVATION, OR TWO INCHES ABOVE THE EXISTING GROUND ELEVATION DETERMINED FROM AVAILABLE AERIAL MAPPING.

WHERE FOUNDATIONS OR PULLBOXES ARE NEAR RAMPS, THE FINAL RAMP ELEVATIONS SHALL BE FIELD DETERMINED PER SCD BP-7.1. THE FOUNDATION TOP SHALL BE LEVEL WITH THE HIGHEST ADJACENT RAMP ELEVATION.

WHERE THE SIDE OF A FOUNDATION IS ADJACENT TO A SLOPING RAMP, THE EXPOSED FORMED FOUNDATION SIDE SHALL BE FINISHED TO PROVIDE A NEAT APPEARANCE.

THE FORMED SQUARE TOPS OF FOUNDATIONS ARE ALIGNED TO MATCH THE NEARBY SIDEWALK AND CURB RAMPS. THIS DOES NOT NECESSARILY MATCH THE ALIGNMENT OF THE POLES. USE THE LAYOUT INFORMATION IN THE PLANS FOR ALIGNING POLE ANCHOR BOLTS.

PULL BOX SURFACES IN RAMP SLOPES SHALL MATCH THE RAMP GRADE.

POLE FOUNDATIONS AND ORDERING POLES

PRIOR TO ORDERING POLES, THE CONTRACTOR SHALL LAYOUT THE LOCATION IN THE FIELD, COORDINATE WITH NEARBY UTILITIES, AND INSTALL THE POLE FOUNDATIONS PER 632.14.

SIGNAL HEAD MOUNTING

THE DESIGN HEIGHT OF POLES WAS CALCULATED USING THE AVERAGE OF THE MINIMUM AND MAXIMUM MAST ARM RISE SHOWN ON SCD TC-81.21 AND WITH THE SIGNAL HEADS RIGID MOUNTED ON THE CENTER OF THE YELLOW LENS PER SCD TC-85.20.

ITEM 632 - (COMBINATION) SIGNAL SUPPORT, TC-12.30 AND TC-81.21, AS PER PLAN

FURNISH GALVANIZED SIGNAL SUPPORTS OF THE TYPES SPECIFIED PER THE STANDARD DRAWINGS. PAINT THE SUPPORTS PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

WELD ONE AND ONE HALF INCH (1 -1/2") BLIND HALF COUPLINGS FOR SIGNAL HEADS AND LIGHTING BRACKET MOUNTS TO THE POLES PRIOR TO GALVANIZING. DO NOT BAND MOUNTINGS OR FIELD INSTALL WIRING HOLES ON PAINTED POLES.

ITEM 632 - SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.21 MAST ARM (GREATER THAN 59 FT IN LENGTH), AS PER PLAN

THIS ITEM SHALL CONSIST OF THE CONTRACTOR INSTALLING A TUNED MECHANICAL STOCKBRIDGE OR MASS-SPRING TYPE DAMPER ON A TC-81.21 MAST ARM SIGNAL SUPPORT TO REDUCE THE POSSIBILITY OF HARMONIC VIBRATIONS CAUSED BY WIND LOADS. A MECHANICAL DAMPER SHALL BE APPLIED TO ALL MAST ARMS OVER 59 FEET IN LENGTH. THE INSTALLED DAMPER SHALL BE CAPABLE OF REDUCING THE LOADED MAXIMUM VERTICAL MOVEMENT AT THE TIP OF THE ARM TO 8 INCHES MEASURED FROM THE HIGHEST TO THE LOWEST POINT OF DEFLECTION AT WIND SPEEDS OF 5-20 MPH.

ALL ATTACHMENT HARDWARE CONNECTIONS SHALL BE STAINLESS STEEL. STOCKBRIDGE-TYPE DAMPERS SHALL HAVE A STAINLESS STEEL SAFETY CHAIN ANCHORED TO THE MAST ARM TO PREVENT WEIGHTS FROM FALLING SHOULD THEY BECOME SEPARATED FROM THE REST OF THE ASSEMBLY.

THE DAMPERS SHALL BE PAINTED GLOSS HUNTER GREEN (FS595C, COLOR 14109) TO MATCH THE MAST ARM. THE DAMPER SHALL BE ATTACHED TO THE ARM WITHIN 8 FEET OF MAST ARM TIP. INSTALLATION SHALL BE PER THE MANUFACTURER'S GUIDELINES. STATIC DAMPERS SUCH AS HORIZONTAL FLAT SIGN MOUNTINGS SHALL NOT BE USED.

ACCEPTABLE DEVICES INCLUDE THE FOLLOWING OR APPROVED EQUAL:

1. UNION METAL ALCOA DAMPER DEVICE DWG. NO. 2G-1817-C1
2. VALMONT STRUCTURES
ALCOA DEVICE DWG. NO. OH104242P1
3. FLORIDA DOT SPRING-MASS DAMPER DRAWING INDEX NO. 17749

PAYMENT FOR ITEM 632, SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.21 (GREATER THAN 59 FT IN LENGTH), AS PER PLAN, SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH COMPLETE AND IN PLACE, AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

ORNAMENTAL SUPPORTS (ALTERNATE BID)

ALTERNATE BID ITEMS APPLY ONLY TO THOSE SIGNAL AND PEDESTAL SUPPORTS LOCATED AT THE FOLLOWING INTERSECTIONS:

NORTH MALL DR. AND SOUTH MALL DR.
HULL RD.
NORTH MEIJER DR. AND SOUTH MEIJER DR.
CROSSINGS RD. / NORTH PARK PLACE
FUN DRIVE
BAY WINDS DR. /SOUTH PARK PLACE
SR-2 WB RAMP AND SR -2 EB RAMP
BOGART ROAD

ORNAMENTAL SUPPORT DESIGN (ALTERNATE BID)

THE ALTERNATE BID ORNAMENTAL SIGNAL SUPPORT DESIGNER SHALL PROVIDE DRAWINGS OF A SIGNAL SUPPORT WITH STRUCTURAL ASPECTS OF THE DESIGN AND MATERIALS IN COMPLIANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS, WITH 2006 INTERIM REVISIONS, FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. THE SIGNAL SUPPORT SHALL BE ASTM A595 GRADE A WITH A MINIMUM YIELD STRENGTH OF 50 KSI. THE FOLLOWING DESIGN PARAMETERS SHALL BE USED:

1. BASIC WIND SPEED = 90 MPH
2. DESIGN LIFE = 25 YEARS
3. FATIGUE
CATEGORY = III
4. GALLOPING: NO
5. TRUCK INDUCED GUST: NO

THE SIGNAL SUPPORT DESIGNER SHALL ALSO INCLUDE CALCULATIONS TO SHOW THAT THE PROPOSED SUPPORT DESIGN IS SIZED TO PROVIDE THE 16' TO 18' ROAD SURFACE TO BOTTOM OF SIGNAL HEAD CLEARANCE SHOWN ON SCD TC-81.21 WITH SIGNAL HEADS RIGID MOUNTED ON THE CENTER OF THE YELLOW LENS PER SCD TC-85.20.

PRIOR TO INCORPORATION, SUBMIT TO THE ENGINEER TWO COPIES OF THE SIGNAL SUPPORT DRAWINGS AND SHOP DRAWINGS, WHICH IDENTIFY AND DESCRIBE EACH MANUFACTURED SIGNAL SUPPORT AND SIGNAL SUPPORT ITEM WHICH IS BEING INCORPORATED INTO THE CONSTRUCTION. THE SIGNAL SUPPORT DRAWINGS AND SHOP DRAWINGS SHALL EACH BE REVIEWED, SEALED, STAMPED, AND DATED BY TWO OHIO REGISTERED PROFESSIONAL ENGINEERS.

PAYMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER ITEM 632, [COMBINATION] SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21 DESIGN [NO.] (ALTERNATE BID).

ITEM 632-COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21 DESIGN [NO.] (ALTERNATE BID)

THE CONTRACTOR IS TO INCLUDE AN ALTERNATE BID FOR THE SIGNAL SUPPORTS. THE ALTERNATE CONSISTS OF AN ORNAMENTAL DESIGN.

FURNISH AND INSTALL UNION METAL COMPANY "NOSTALGIA" SERIES, COLUMBIAN" FAMILY SIGNAL SUPPORTS OR APPROVED EQUAL. POLES SHALL BE FLUTED SHAFTS WITH 16 FLUTES, COLUMBIAN STYLE DECORATIVE BASES (NO. 230, 260 OR 290 DEPENDING UPON SHAFT DIAMETER) AND ORNAMENTAL POLE CAPS (NO. 60-JX/49-66). MAST ARMS SHALL BE STRAIGHT, AS SHOWN ON SHEET 427.

PAINT THE ENTIRE SUPPORT PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

BRACKETS-PROVIDE BRACKET ARM(S) LIKE "ITEM 625 - BRACKET ARM, BY LENGTH, AS PER PLAN" OR PROPOSE ALTERNATIVE ORNAMENTAL BRACKET ARM(S) OF THE LENGTH SPECIFIED. PROVIDE AN ORNAMENTAL BRACKET FINIAL COMPATIBLE WITH THE LUMINAIRE PROPOSED.

LUMINAIRES-PROVIDE 136 TO 150 WATT LED ORNAMENTAL FIXTURES WITH INTEGRAL PHOTOCELLS OF TEARDROP STYLE WITH BRONZE METALLIC FINISH PER THE FOLLOWING MODELS, OR APPROVED EQUAL:

HOLOPHANE MEMPHIS LED, MPL/150/5K/AS/P/Z/4

BEACON MET(30) (LED), MET30/PC-60NB-136/5K/DIR4/PEC/DPF/MBT

STERNBERG 1914 LED LIBERTYVILLE, 1914LED/A

SUBMIT DESIGN CALCULATIONS, CATALOG CUTS AND SHOP DRAWINGS OF THE PROPOSED POLES, LUMINAIRES AND BRACKET ARMS TO THE ENGINEER FOR APPROVAL BEFORE ORDERING. IF CAST ALUMINUM COMPONENTS ARE PROPOSED, PROVIDE THE MANUFACTURER'S RECOMMENDATIONS TO RESIST GALVANIC CORROSION WITH THE STEEL POLES.

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ATTACH SIGNAL HEAD BRACKET ARMS TO THE POLES BY UTILIZING ONE AND ONE HALF INCH (1 -1/2") BLIND HALF COUPLINGS WELDED INTO THE POLE PRIOR TO GALVANIZING. DO NOT FIELD INSTALL WIRING HOLES FOR SIGNALS OR PUSH BUTTONS.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID FOR EACH SIGNAL SUPPORT, COMPLETE AND IN PLACE, INCLUDING LUMINAIRE BRACKET ARMS, GLOBE HOLDERS, LUMINAIRES, GLOBES, AND LAMPS.

ITEM 632-SIGNAL SUPPORT, MISC., ORNAMENTAL, TC-81.21 DESIGN [NO.] (ALTERNATE BID)

THE CONTRACTOR IS TO INCLUDE AN ALTERNATE BID FOR THE SIGNAL SUPPORTS. THE ALTERNATE CONSISTS OF AN ORNAMENTAL DESIGN.

FURNISH AND INSTALL UNION METAL COMPANY "NOSTALGIA" SERIES, COLUMBIAN" FAMILY SIGNAL SUPPORTS OR APPROVED EQUAL. POLES SHALL BE FLUTED SHAFTS WITH 16 FLUTES, COLUMBIAN STYLE DECORATIVE BASES (NO. 230, 260 OR 290 DEPENDING UPON SHAFT DIAMETER) AND ORNAMENTAL POLE CAPS (NO. 60-JX/49-66). MAST ARMS SHALL BE STRAIGHT, AS SHOWN ON SHEET 427.

PAINT THE ENTIRE SUPPORT PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

SUBMIT DESIGN CALCULATIONS, CATALOG CUTS AND SHOP DRAWINGS OF THE PROPOSED POLES TO THE ENGINEER FOR APPROVAL BEFORE ORDERING. IF CAST ALUMINUM COMPONENTS ARE PROPOSED, PROVIDE THE MANUFACTURER'S RECOMMENDATIONS TO RESIST GALVANIC CORROSION WITH THE STEEL POLES.

ATTACH SIGNAL HEAD BRACKET ARMS TO THE POLES BY UTILIZING ONE AND ONE HALF INCH (1 -1/2") BLIND HALF COUPLINGS WELDED INTO THE POLE PRIOR TO GALVANIZING. DO NOT FIELD INSTALL WIRING HOLES FOR SIGNALS OR PUSH BUTTONS.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID FOR EACH SIGNAL SUPPORT, COMPLETE AND IN PLACE.

ITEM 625 - BRACKET ARM, 15', 20', OR 30', AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 725.01 AND HL-10.11, SUPPLY TRUSS ARM HIGH RISE BRACKET ARMS OF THE LENGTHS SPECIFIED IN THE PLANS.

PAINT THE ENTIRE BRACKET ARM PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

ITEM 625 - LUMINAIRE, CONVENTIONAL, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 625 AND 725.11, THE LUMINAIRE SUPPLIED FOR THIS CONTRACT SHALL BE A COBRA HEAD STYLE FIXTURE ASSEMBLY AND SHALL HAVE A SOLID STATE (LED) LIGHT SOURCE EQUIVALENT TO A 200W METAL HALIDE LAMP. THE DISTRIBUTION SHALL BE IES TYPE III. THE FIXTURE SHALL BE EQUIPPED WITH AN INTEGRAL PHOTOCELL.

THE FIXTURE CASE SHALL HAVE A HUNTER GREEN (FS595C, COLOR 14109) FACTORY APPLIED POLYESTER POWDER COAT EXTERIOR FINISH MATCHING THE BRACKET ARM.

THE LUMINAIRE SHALL BE MANUFACTURED BY ACUITY BRANDS, LEOTEK ELECTRONICS USA, CREE INC., ELECTO-MATIC PRODUCTS INC., LIGHTING SOLUTIONS GROUP LLC, COOPER LIGHTING, OR APPROVED EQUAL. THE SOLID STATE (LED) LUMINAIRE SHALL USE 45% TO 65% OF THE REAL POWER OF THE CORRESPONDING METAL-HALIDE LUMINAIRE IT REPLACES, INCLUDING BALLAST. THE COLOR TEMPERATURE OF THE SOLID STATE (LED) LUMINAIRE SHALL BE 4000K +/- 450K. OPERATING TEMPERATURE RANGE SHALL INCLUDE THE RANGE -35 DEGREES F TO +110 DEGREES F WITHOUT DE-RATING. ENCLOSURE SHALL MEET CRITERIA OF IP65, MINIMUM. DRIVER MODULE SHALL BE UL APPROVED. DRIVER MODULE SHALL BE 1) AUTOSENSING OVER THE NOMINAL 120VAC TO 277VAC OPERATING RANGE, OR 2) 480VAC, AS REQUIRED. LUMINAIRE SHALL USE A GLASS LENS.

THE LUMINAIRE SHALL INCLUDE A MODULAR, REPLACEABLE SURGE PROTECTIVE DEVICE APPROPRIATE FOR THE IEEE/ANSI C62.41.2 2002 SCENARIO I, LOCATION CATEGORY C, HIGH-EXPOSURE CONDITION. STANDARD TESTS FOR THIS CONDITION ARE SEPARATE VOLTAGE AND CURRENT TESTS. LUMINAIRE SHALL MEET THE FOLLOWING GENERAL WITHSTAND LEVELS: 1) A 10KV (MINIMUM), 1.2/50 MICROSECOND VOLTAGE WAVEFORM, 2) A 10KA (MINIMUM), 8/20 MICROSECOND CURRENT WAVEFORM. THE SURGE SUPPRESSOR MODULE SHALL INCLUDE NAMEPLATE INFORMATION.

WARRANTY - A WRITTEN WARRANTY SHALL BE PROVIDED FOR THE FULL REPLACEMENT OF THE LUMINAIRE DUE TO ANY DEFECTIVE ELECTRICAL PARTS OR DEFECTIVE ENCLOSURE PARTS FOR SIX (6) YEARS, MINIMUM.

WARRANTY EXCLUDES FAILURES DUE TO LIGHTNING STRIKES AND SURGES OF SUFFICIENT MAGNITUDE TO PROPAGATE THROUGH THE SURGE PROTECTIVE DEVICE (SPD). SPDS ARE CONSIDERED SACRIFICIAL COMPONENTS UNDER NORMAL INSTALLED ROADWAY LIGHTING CONDITIONS AND ARE EXCLUDED FROM THE WARRANTY UNLESS A KNOWN OR DEMONSTRABLE DESIGN OR MANUFACTURING FAILURE IS INDICATED. THE WARRANTY SHALL PROVIDE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE ELECTRICAL PARTS (INCLUDING LIGHT SOURCE AND POWER SUPPLIES/DRIVERS) FOR A MINIMUM OF TEN (10) YEARS FROM THE DATE OF PURCHASE. FAILURE MORE THAN 10% OF THE TOTAL NUMBER OF ORIGINAL INDIVIDUAL LED EMITTERS WITHIN 6 YEARS SHALL CONSTITUTE LUMINAIRE FAILURE.

ITEM 632 - PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:

1. ALL SIGNAL LAMP UNITS SHALL BE LED, LIGHT EMITTING DIODE, AND SHALL MEET THE REQUIREMENTS OF CMS 732.04-C. THE SIGNAL LAMP UNITS SHALL BE LISTED ON ODOT'S QPL (QUALIFIED PRODUCTS LIST). THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

2. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.

3. PIPE, SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.

4. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.

5. COUNTDOWN FEATURE SHALL OPERATE PER CMS 732.05-D THE DEPARTMENT WILL MEASURE PEDESTRIAN SIGNAL HEAD (LED), COUNTDOWN, TYPE D2, AS PER PLAN, BY THE NUMBER OF COMPLETE UNITS FURNISHED AND INSTALLED, AND WILL INCLUDE ALL SUPPORT AND MOUNTING HARDWARE, CLOSURE CAPS, AND LAMPS AS SPECIFIED.

ITEM 632 - PEDESTRIAN PUSH BUTTON, AS PER PLAN

IN ORDER TO CONFORM TO THE AMERICAN WITH DISABILITIES ACT THE REQUIREMENTS OF 632.09 AND 732.06 ARE MODIFIED AS FOLLOWS:

1. THE MAXIMUM FORCE REQUIRED TO OPERATE THE PUSH BUTTON SHALL BE 5 POUNDS PER FOOT.

2. THE PUSH BUTTON SHALL BE RAISED OR FLUSH AND SHALL BE A MINIMUM OF TWO INCHES AT ITS SMALLEST DIMENSION.

3. THE BUTTON WHEN PRESSED SHALL INCLUDE A CONFIRMATION TONE.

ITEM 632 - PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 632.19 AND ODOT STANDARD CONSTRUCTION DRAWINGS TC-83.20, THE TRANSFORMER BASE PEDESTAL PROVIDED SHALL BE A BREAKAWAY DESIGN PER SHEET 426.

PAINT THE ENTIRE PEDESTAL PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

ITEM 632-PEDESTAL, MISC: 8' ORNAMENTAL (ALTERNATE BID)

THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID OF FOR A PAINTED ORNAMENTAL POLE, UNION METAL COMPANY "NOSTALGIA" SERIES, "COLUMBIAN" FAMILY PEDESTAL OR APPROVED EQUAL, WITH 16 FLUTE SHAFTS, AND COLUMBIAN STYLE DECORATIVE BASE, WITH A 4-½" DIAMETER POLE TOP WHICH WILL ACCEPT A PEDESTRIAN SIGNAL HEAD CAP MOUNT, OR AN ORNAMENTAL CAP.

ATTACH SIGNAL HEAD BRACKET ARMS TO THE POLES BY UTILIZING ONE AND ONE HALF INCH (1 -1/1") BLIND HALF COUPLINGS WELDED INTO THE POLE PRIOR TO GALVANIZING. DO NOT FIELD INSTALL WIRING HOLES FOR SIGNALS OR PUSH BUTTONS.

PAINT THE ENTIRE PEDESTAL PER "PAINTING OF OVERHEAD SIGN SUPPORTS, SIGNAL SUPPORTS, PEDESTALS AND BRACKET ARMS" ON SHEET 353.

SUBMIT CATALOG CUTS AND SHOP DRAWINGS OF THE PROPOSED POLES TO THE ENGINEER FOR APPROVAL BEFORE ORDERING THE POLES. IF CAST ALUMINUM COMPONENTS ARE PROPOSED, PROVIDE THE MANUFACTURER'S RECOMMENDATIONS TO RESIST GALVANIC CORROSION WITH THE STEEL POLE.

CALCULATED | CHECKED

SIGNAL GENERAL NOTES

ERI-250-0.00

416E
677

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		PARTICIPATION															ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	419	430	435	440	445	450	455	460	465	470	475	480	485	490	01/SAF/ OT/ERI	02/SAF/ OT/ECSE						
		280	220	180	160	180	100	160	180	160	220	80	80	180	2180		611	00400	2180	FT	4" CONDUIT, TYPE E	
		5	1	2	2	2	1	2	2	1	3	1	1	1	24		625	00500	24	EACH	CONNECTOR KIT, TYPE II	
		5	1	2	2	2	1	2	2	1	3	1	1	1	24		625	00600	24	EACH	CONNECTOR KIT, TYPE III	
		5		1	2	3		1	2		3			2	19		625	18201	19	EACH	BRACKET ARM, 15', AS PER PLAN	416E
				1				1		1	1	2	1		7		625	18401	7	EACH	BRACKET ARM, 20', AS PER PLAN	416E
			1				1								2		625	18511	2	EACH	BRACKET ARM, 30', AS PER PLAN	416E
		1173	606	2088	1245	1296	795	885	1008	378	1218	108	84	417	11301		625	23306	11301	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
		699	189	303	291	411	189	303	288	159	570	267	174	219	4062		625	23410	4062	FT	NO. 12 AWG POLE AND BRACKET CABLE	
		155	72	39	27	109	24	4	34	39	77	34	23	125	762		625	25204	762	FT	CONDUIT, 1-1/4", 725.051	
		17	38	16	22	31	6	24	27	15	20	14	10	12	252		625	25408	252	FT	CONDUIT, 2", 725.051	
		77	115	85	61	70	153	54	63	53	66	20	37	48	902		625	25504	902	FT	CONDUIT, 3", 725.051	
		30	61			19			3	11	4			21	149		625	25604	149	FT	CONDUIT, 4", 725.051	
		467	294	657	526	533	429	461	529	363	577	217	182	367	5602		625	25901	5602	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	416A
		127	105												232		625	25901	232	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 4"	416A
		5	1	2	2	3	1	2	2	1	4	2	1	2	28		625	26251	28	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	416E
		279	286	140	110	229	183	82	127	118	167	68	70	206	2065		625	29000	2065	FT	TRENCH	
		14	11	9	8	9	8	8	9	6	11	4	4	9	110		625	30706	110	EACH	PULL BOX, 725.08, 24"	
		18	14	12	12	15	10	9	12	13	15	9	10	17	166		625	32000	166	EACH	GROUND ROD	
		279	286	140	110	229	183	82	127	118	167	68	70	206	2065		625	36000	2065	FT	PLASTIC CAUTION TAPE	
		7	4	7	7	6	5	7	9	8	10	10	9	6	95		632	05006	95	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
			3												3		632	05067	3	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN	
		3	1	2	2	4	1	2	4	2	2	1		6	30		632	05086	30	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
		12	8	8	8	10	6	2	8	8	10	2	4	12	98		632	20731	98	EACH	PEDESTRIAN SIGNAL HEAD (LED) , (COUNTDOWN), TYPE D2, AS PER PLAN	416E
		10	5	9	9	10	6	9	13	10	12	11	9	12	125		632	25000	125	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
		12	8	8	8	10	6	2	8	8	10	2	4	12	98		632	25010	98	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
		12	8	8	8	10	6	2	8	8	10	2	5	12	99		632	26001	99	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	416E
		3647	2672	1832	1659	2298	1242	724	2086	1575	2172	1051	1842	2050	24850		632	40500	24850	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
		819	1056	476	440	655	449	384	834	464	374	330		1365	7646		632	40700	7646	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
		4	2	4	4	4	3	4	4	4	4	2	3	4	46		632	64010	46	EACH	SIGNAL SUPPORT FOUNDATION	
		10	8	4	4	7	3	1	4	5	7	3	3	9	68		632	64020	68	EACH	PEDESTAL FOUNDATION	
		2565	1827	1362	1234	1756	1015	367	1231	1181	1329	419	733	1775	16794		632	65200	16794	FT	LOOP DETECTOR LEAD-IN CABLE	
		44	50	62	91	40	94	46	71	98	80	179	91	46	992		632	66102	992	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
		22	22	22	22	22	22	22	23	26	22	22	22	22	291		632	69800	291	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
		1	1	1	1	1	1	1	1	1	1	1	1	1	13		632	70001	13	EACH	POWER SERVICE, AS PER PLAN	420
												1			1		632	77133	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-12.30 DESIGN 5 POLE, WITH MAST ARMS TC-81.21 DESIGN 11 AND DESIGN 4, AS PER PLAN	416D
			1												1		632	77231	1	EACH	SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.21 MAST ARM (GREATER THAN 59' IN LENGTH), AS PER PLAN	416D
										1					1		632	80103	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN	416D
					1			1						1	3		632	80203	3	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	416D
				1	1						1				3		632	80303	3	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN	416D
													1		1		632	80403	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4, AS PER PLAN	416D
				1		2	1	1		1				2	8		632	80503	8	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	416D
							1		2	1		1	1		6		632	80621	6	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	416D
			1												1		632	80621	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN, SANDUSKY	416D
										1					1		632	80700	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 1 (ALTERNATE BID)*	416E
					1			1						1	3		632	80700	3	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 2 (ALTERNATE BID)*	416E
				1	1						1				3		632	80700	3	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 3 (ALTERNATE BID)*	416E
													1		1		632	80700	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 4 (ALTERNATE BID)*	416E
				1		2	1	1		1				2	8		632	80700	8	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	416E
							1		2	1		1	1		6		632	80700	6	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	416E

* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.

CALCULATED LMZ
CHECKED GAB

SIGNAL GENERAL SUMMARY

ERI-250-0.00

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															PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	419	430	435	440	445	450	455	460	465	470	475	480	485	490	01/SAF/ OT/ERI	02/SAF/ OT/ECSE							
		1													1			632	80971	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN	416D
						1					1			1	3			632	80981	3	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	416D
		2													2			632	80981	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN, SANDUSKY	416D
											1				1			632	81001	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4, AS PER PLAN	416D
					1			1		1	1		1		5			632	81071	5	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	416D
		1													1			632	81071	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN, SANDUSKY	416D
				1	1	1									3			632	81081	3	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN	416D
				1			1	1	2						5			632	81091	5	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	416D
			1												1			632	81095	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 14, AS PER PLAN	416D
						1					1			1	3			632	81700	3	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 2 (ALTERNATE BID)*	416D
											1				1			632	81700	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 4 (ALTERNATE BID)*	416D
					1			1		1	1		1		5			632	81700	5	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	416D
				1	1	1									3			632	81700	3	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 12 (ALTERNATE BID)*	416D
				1			1	1	2						5			632	81700	5	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	416D
												1			1			632	81700	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-12.30, DESIGN 5, WITH MAST ARMS TC-81.21 DESIGN 11 AND DESIGN 4 (ALTERNATE BID)*	416D
				4	4	7	3	1	4	5	7	3	3	9	50			632	89901	50	EACH	PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN	416E
		10	8												18			632	89901	18	EACH	PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN, SANDUSKY	416E
				4	4	7	3	1	4	5	7	3	3	9	50			632	90010	50	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)*	416E
	2														2			632	90020	2	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM (COMMUNICATION EQUIPMENT)	416A
		1	1												2			632	90100	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
				1	1	1	1	1	1	1	1	1	1	1	11			632	90101	11	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	416
	2			1	1	1	1	1	1	1	1	1	1	1	13			632	90400	13	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	416C
	1														1			633	01541	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	416C
		1	1	1	1	1	1	1	1	1	1	1	1	1	13			633	01551	13	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS2, AS PER PLAN	416B
		1	1	1	1	1	1	1	1	1	1	1	1	1	13			633	67001	13	EACH	CABINET RISER, AS PER PLAN	416B
		1	1	1	1	1	1	1	1	1	1	1	1	1	13			633	67100	13	EACH	CABINET FOUNDATION	
		490	547												1037			633	67320	1037	FT	PREEMPTION DETECTOR CABLE	416B
		1	1	1	1	1	1	1	1	1	1	1	1	1	13			633	74001	13	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	416B
	1					1						1	1		4			809	60000	4	EACH	CCTV IP-CAMERA, DOME TYPE	423-425
	2			1	1	1	1	1	1	1	1	1	1	1				809	66050	13	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	416C
				2	2	2	2	2	2	2	2	2	2	2	22			809	69000	22	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	416C
		4	4	4	4	4	3	4	4	4	4	3	3	4	49			809	69100	49	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	416C

* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.

CALCULATED LMZ
CHECKED GAB

SIGNAL GENERAL SUMMARY

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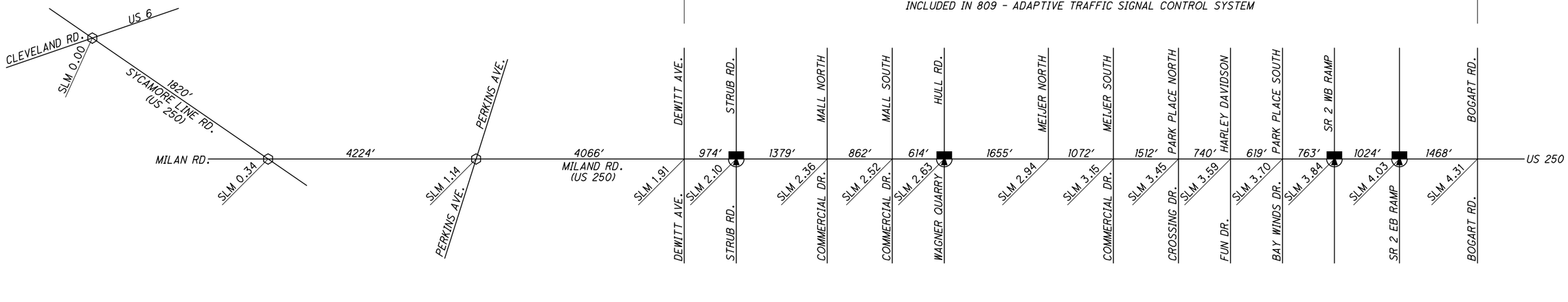

LEGEND

⬡ - CITY OF SANDUSKY MAINTENANCE

- CCTV CAMERA

NOTE:

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ESTIMATED QUANTITIES - STRUB RD AND DEWITT AVE

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			STRUB ROAD	
632	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM (COMMUNICATION EQUIPMENT)	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
809	1	EACH	CCTV IP-CAMERA SYSTEM, DOME TYPE	*
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
			DEWITT AVENUE	
632	1	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM (COMMUNICATION EQUIPMENT)	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	

* MOUNT ON EXISTING 33' HIGH TC-81.21 COMBINATION SIGNAL SUPPORT IN SOUTHEAST QUADRANT.

CALCULATED GAB
CHECKED LMZ

TRAFFIC SIGNAL SYSTEM

ERI-250-0.00

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Coordination Data - Dewitt Ave.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB		WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			14.0	27.0		17.0	14.0	27.0	13.0	17.0	
Ph Min Ped (in seconds)				26.0		34.1		35.0			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	14	42		34	14	42	14	20	83
3/3/4	10:00 AM - 7:00 PM	110	14	59		37	14	59	17	20	96
2/3/4	7:00 - 9:00 PM	100	15	50		35	15	50	15	20	3
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	14	42		34	14	42	14	20	83
3/3/4	10:00 AM - 7:00 PM	110	14	59		37	14	59	17	20	96
2/3/4	7:00 - 10:00 PM	100	15	50		35	15	50	15	20	3
Free (0)	10:00 PM - 8:00 AM										

Coordination Data - Strub Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD	ACT	ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	31.0	12.5	15.0	13.0	31.0	12.5	15.0	
Ph Min Ped (in seconds)				24.6		28.8		23.6		27.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	15	37	13	25	13	39	13	25	63
3/3/4	10:00 AM - 7:00 PM	110	20	48	13	29	13	55	14	28	72
2/3/4	7:00 - 9:00 PM	100	18	43	13	26	14	47	15	24	86
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	15	37	13	25	13	39	13	25	63
3/3/4	10:00 AM - 7:00 PM	110	20	48	13	29	13	55	14	28	72
2/3/4	7:00 - 10:00 PM	100	18	43	13	26	14	47	15	24	86
Free (0)	10:00 PM - 8:00 AM										

Coordination Data (Master Controller) - North Mall Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	27.0		16.0	14.0	26.0		16.0	
Ph Min Ped				39.7		34.8		42.9		34.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	13	55		22	18	50		22	37
3/3/4	10:00 AM - 7:00 PM	110	13	62		35	18	57		35	31
2/3/4	7:00 - 9:00 PM	100	14	53		33	14	53		33	49
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	13	55		22	18	50		22	37
3/3/4	10:00 AM - 7:00 PM	110	13	62		35	18	57		35	31
2/3/4	7:00 - 9:00 PM	100	14	53		33	14	53		33	49
Free (0)	10:00 PM - 8:00 AM										

Coordination Data (Master Controller) - South Mall Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			14.0	27.0		16.0	14.0	27.0		17.0	
Ph Min Ped (in seconds)				37.4		35.0		42.7		34.9	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	14	45		31	15	44		31	37
3/3/4	10:00 AM - 7:00 PM	110	14	60		36	14	60		36	20
2/3/4	7:00 - 9:00 PM	100	14	56		30	15	55		30	48
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	14	45		31	15	44		31	37
3/3/4	10:00 AM - 7:00 PM	110	14	60		36	14	60		36	20
2/3/4	7:00 - 10:00 PM	100	14	56		30	15	55		30	48
Free (0)	10:00 PM - 8:00 AM										

Coordination Data (Master Controller) -Hull Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	27.0		17.0	14.0	27.0	14.0	17.0	
Ph Min Ped				30.1		36.0		29.0		32.3	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	14	45		31	14	45	14	17	27
3/3/4	10:00 AM - 7:00 PM	110	13	65		32	18	60	15	17	10
2/3/4	7:00 - 9:00 PM	100	13	55		32	15	53	14	18	37
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	14	45		31	14	45	14	17	27
3/3/4	10:00 AM - 7:00 PM	110	13	65		32	18	60	15	17	10
2/3/4	7:00 - 10:00 PM	100	13	55		32	15	53	14	18	37
Free (0)	10:00 PM - 8:00 AM										

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ERI-250-0.00

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Coordination Data (Master Controller) - North Meijers Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode				COORD		ACT	ACT	COORD	ACT		
Ph Min Veh (in seconds)				26.0		16.0	13.0	26.0	16.0		
Ph Min Ped						36.2		38.9			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90		69		21	16	53	21		0
3/3/4	10:00 AM - 7:00 PM	110		82		28	21	61	28		0
2/3/4	7:00 - 9:00 PM	100		73		27	18	55	27		0
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90		69		21	16	53	21		0
3/3/4	10:00 AM - 7:00 PM	110		82		28	21	61	28		0
2/3/4	7:00 - 10:00 PM	100		73		27	18	55	27		0
Free (0)	10:00 PM - 8:00 AM										

Coordination Data - South Meijers Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	26.0		17.0	13.0	26.0		17.0	
Ph Min Ped								34.0			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	13	52		25	13	52		25	75
3/3/4	10:00 AM - 7:00 PM	110	13	62		35	13	62		35	108
2/3/4	7:00 - 9:00 PM	100	13	54		33	13	54		33	83
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	13	52		25	13	52		25	75
3/3/4	10:00 AM - 7:00 PM	110	13	62		35	13	62		35	108
2/3/4	7:00 - 10:00 PM	100	13	54		33	13	54		33	83
Free (0)	10:00 PM - 8:00 AM										

Coordination Data - Crossings Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD	ACT	ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	26.0	14.0	17.0	13.0	26.0	14.0	17.0	
Ph Min Ped				34.5		47.6		35.7		45.7	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	15	43	14	18	15	43	14	18	45
3/3/4	10:00 AM - 7:00 PM	110	14	63	15	18	17	63	14	19	44
2/3/4	7:00 - 9:00 PM	100	15	52	17	16	15	52	14	19	21
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	15	43	14	18	15	43	14	18	45
3/3/4	10:00 AM - 7:00 PM	110	14	63	15	18	17	63	14	19	44
2/3/4	7:00 - 10:00 PM	100	15	52	17	16	15	52	14	19	21
Free (0)	10:00 PM - 8:00 AM										

Coordination Data - Fun Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	27.0		16.0	14.0	26.0		16.0	
Ph Min Ped				39.7		34.8		42.9		34.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	22	46		22	14	54		22	37
3/3/4	10:00 AM - 7:00 PM	110	25	57		28	14	68		28	38
2/3/4	7:00 - 9:00 PM	100	19	53		28	14	58		28	38
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	22	46		22	14	54		22	37
3/3/4	10:00 AM - 7:00 PM	110	25	57		28	14	68		28	38
2/3/4	7:00 - 10:00 PM	100	19	53		28	14	58		28	38
Free (0)	10:00 PM - 8:00 AM										

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ERI-250-0.00

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Coordination Data - Bay Winds Drive

Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	27.0		17.0	14.0	26.0		17.0	
Ph Min Ped				25.8		32.7		30.4			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	13	57		20	15	55		20	31
3/3/4	10:00 AM - 7:00 PM	110	13	63		34	23	53		34	42
2/3/4	7:00 - 9:00 PM	100	13	59		28	18	54		28	26
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	13	57		20	15	55		20	31
3/3/4	10:00 AM - 7:00 PM	110	13	63		34	23	53		34	42
2/3/4	7:00 - 10:00 PM	100	13	59		28	18	54		28	26
Free (0)	10:00 PM - 8:00 AM										

Coordination Data - SR-2 WB

Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT		COORD			
Ph Min Veh (in seconds)			14.0	26.0		16.0		27.0			
Ph Min Ped								43.5			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	16	44		30		60			37
3/3/4	10:00 AM - 7:00 PM	110	18	67		25		82			54
2/3/4	7:00 - 9:00 PM	100	14	54		32		68			35
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	16	44		30		60			37
3/3/4	10:00 AM - 7:00 PM	110	18	67		25		82			54
2/3/4	7:00 - 10:00 PM	100	14	54		32		68			35
Free (0)	10:00 PM - 8:00 AM										

Coordination Data - SR-2 EB

Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode				COORD				COORD		ACT	
Ph Min Veh (in seconds)				26.0				26.0		16.0	
Ph Min Ped								23.9		38.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90		57				57		33	41
3/3/4	10:00 AM - 7:00 PM	110		75				75		35	70
2/3/4	7:00 - 9:00 PM	100		61				61		39	63
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90		57				57		33	41
3/3/4	10:00 AM - 7:00 PM	110		75				75		35	70
2/3/4	7:00 - 10:00 PM	100		61				61		39	63
Free (0)	10:00 PM - 8:00 AM										

Coordination Data -Bogart Road

Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD	ACT	ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	26.0	14.0	17.0	13.0	26.0	14.0	17.0	
Ph Min Ped (in seconds)				28.8		36.0		30.0		32.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 10:00 AM	90	14	38	16	22	14	38	14	24	66
3/3/4	10:00 AM - 7:00 PM	110	16	52	17	25	16	52	14	28	0
2/3/4	7:00 - 9:00 PM	100	14	47	15	24	14	47	14	25	53
Free (0)	9:00 PM - 6:30 AM										
	Weekend										
1/3/4	8:00 - 10:00 AM	90	14	38	16	22	14	38	14	24	66
3/3/4	10:00 AM - 7:00 PM	110	16	52	17	25	16	52	14	28	0
2/3/4	7:00 - 10:00 PM	100	14	47	15	24	14	47	14	25	53
Free (0)	10:00 PM - 8:00 AM										

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Coordination Data - Dewitt Ave.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB		WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			14.0	27.0		17.0	14.0	27.0	13.0	17.0	
Ph Min Ped (in seconds)				32.0		35.1		35.0			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	14	42		34	14	42	14	20	83
4/2/4	8:30 AM - 11:45 AM	120	14	72		34	14	72	16	18	92
4/3/4	11:45 AM - 6:30 PM	120	15	70		35	15	70	16	19	0
4/4/4	6:30 - 10:30 PM	120	15	70		35	15	70	16	19	2
4/1/4	NON-ART	120	14	72		34	14	72	16	18	92
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	14	72		34	14	72	16	18	92
4/3/4	1:00 PM - 6:00 PM	120	15	70		35	15	70	16	19	5
4/4/4	6:00 - 10:30 PM	120	15	70		35	15	70	16	19	2
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - Strub Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD	ACT	ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	31.0	12.5	15.0	13.0	31.0	12.5	15.0	
Ph Min Ped (in seconds)				24.6		28.8		23.6		27.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	15	37	13	25	13	39	13	25	63
4/2/4	8:30 AM - 11:45 AM	120	26	51	16	27	15	62	20	23	70
4/3/4	11:45 AM - 6:30 PM	120	23	54	14	29	14	63	16	27	90
4/4/4	6:30 - 10:30 PM	120	23	54	14	29	14	63	16	27	106
4/1/4	NON-ART	120	20	62	14	24	15	67	14	24	76
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	26	51	16	27	15	62	20	23	70
4/3/4	1:00 PM - 6:00 PM	120	23	54	14	29	14	63	16	27	90
4/4/4	6:00 - 10:30 PM	120	23	54	14	29	14	63	16	27	106
Free (0)	10:30 PM - 8:00 AM										

* When pushbutton is activated, the signal will come out of coordination to service the pedestrian clearance interval.

Coordination Data (Master Controller) - North Mall Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			COORD	ACT	ACT						
Ph Min Veh (in seconds)			13.0	27.0		16.0	14.0	26.0		16.0	
Ph Min Ped				39.7		34.8		42.9		34.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	13	55		22	18	50		22	37
4/2/4	8:30 AM - 11:45 AM	120	13	77		30	16	74		30	50
4/3/4	11:45 AM - 6:30 PM	120	13	39		38	16	66		38	44
4/4/4	6:30 - 10:30 PM	120	13	69		38	16	66		38	44
4/1/4	NON-ART	120	13	77		30	18	72		30	50
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	13	77		30	16	74		30	50
4/3/4	1:00 PM - 6:00 PM	120	13	39		38	16	66		38	44
4/4/4	6:00 - 10:30 PM	120	13	69		38	16	66		38	44
Free (0)	10:30 PM - 8:00 AM										

Coordination Data (Master Controller) - South Mall Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			COORD	ACT	ACT						
Ph Min Veh (in seconds)			14.0	27.0		16.0	14.0	27.0		17.0	
Ph Min Ped (in seconds)				37.4		35.0		42.7		34.9	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	14	45		31	15	44		31	37
4/2/4	8:30 AM - 11:45 AM	120	14	75		31	15	74		31	40
4/3/4	11:45 AM - 6:30 PM	120	14	70		36	15	69		36	38
4/4/4	6:30 - 10:30 PM	120	14	68		38	14	68		38	39
4/1/4	NON-ART	120	14	75		31	15	74		31	36
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	14	75		31	15	74		31	40
4/3/4	1:00 PM - 6:00 PM	120	14	70		36	15	69		36	38
4/4/4	6:00 - 10:30 PM	120	14	68		38	14	68		38	39
Free (0)	10:30 PM - 8:00 AM										

Coordination Data (Master Controller) - Hull Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	27.0		17.0	14.0	27.0	14.0	17.0	
Ph Min Ped				30.1		36.0		29.0		32.3	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	13	45		31	14	45	14	17	27
4/2/4	8:30 AM - 11:45 AM	120	13	73		34	14	72	17	17	28
4/3/4	11:45 AM - 6:30 PM	120	13	69		38	15	67	21	17	31
4/4/4	6:30 - 10:30 PM	120	13	69		38	15	67	21	17	28
4/1/4	NON-ART	120	13	72		35	16	69	18	17	26
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	13	73		34	14	72	17	17	0
4/3/4	1:00 PM - 6:00 PM	120	13	69		38	15	67	21	17	28
4/4/4	6:00 - 10:30 PM	120	13	69		38	15	67	21	17	28
Free (0)	10:30 PM - 8:00 AM										

CALCULATED LMZ
CHECKED GAB

SUMMER COORDINATION TIMING

ERI-250-0.00

419D
677

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Coordination Data (Master Controller) - North Meijers Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode				COORD		ACT	ACT	COORD			
Ph Min Veh (in seconds)				26.0		16.0	13.0	26.0	16.0		
Ph Min Ped						36.2		38.9			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90		69		21	16	53	21		0
4/2/4	8:30 AM - 11:45 AM	120		95		25	14	81	25		8
4/3/4	11:45 AM - 6:30 PM	120		92		28	20	72	28		0
4/4/4	6:30 - 10:30 PM	120		92		28	20	72	28		0
4/1/4	NON-ART	120		95		25	17	78	25		0
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120		95		25	14	81	25		8
4/3/4	1:00 PM - 6:00 PM	120		92		28	20	72	28		0
4/4/4	6:00 - 10:30 PM	120		92		28	20	72	28		0
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - South Meijers Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	26.0		17.0	13.0	26.0		17.0	
Ph Min Ped								34.0			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	13	52		25	13	52		25	75
4/2/4	8:30 AM - 11:45 AM	120	13	78		29	13	78		29	1
4/3/4	11:45 AM - 6:30 PM	120	13	73		34	13	73		34	110
4/4/4	6:30 - 10:30 PM	120	13	73		34	13	73		34	110
4/1/4	NON-ART	120	13	78		29	13	78		29	113
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	13	78		29	13	78		29	1
4/3/4	1:00 PM - 6:00 PM	120	13	73		34	13	73		34	110
4/4/4	6:00 - 10:30 PM	120	13	73		34	13	73		34	110
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - Crossings Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD	ACT	ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	26.0	14.0	17.0	13.0	26.0	14.0	17.0	
Ph Min Ped				34.5		47.6		35.7		45.7	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	15	43	14	18	15	43	14	18	45
4/2/4	8:30 AM - 11:45 AM	120	14	74	14	18	14	74	14	18	94
4/3/4	11:45 AM - 6:30 PM	120	14	69	15	22	16	67	14	23	116
4/4/4	6:30 - 10:30 PM	120	14	69	14	23	16	67	14	23	103
4/1/4	NON-ART	120	14	70	16	20	14	70	19	17	87
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	14	74	14	18	14	74	14	18	94
4/3/4	1:00 PM - 6:00 PM	120	14	69	15	22	16	67	14	23	116
4/4/4	6:00 - 10:30 PM	120	14	69	14	23	16	67	14	23	103
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - Fun Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	27.0		16.0	14.0	26.0		16.0	
Ph Min Ped				39.7		34.8		42.9		34.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	22	46		22	14	54		22	37
4/2/4	8:30 AM - 11:45 AM	120	20	72		28	14	78		28	94
4/3/4	11:45 AM - 6:30 PM	120	25	64		31	14	75		31	102
4/4/4	6:30 - 10:30 PM	120	25	64		31	14	75		31	96
4/1/4	NON-ART	120	20	72		28	14	78		28	94
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	20	72		28	14	78		28	94
4/3/4	1:00 PM - 6:00 PM	120	25	64		31	14	75		31	102
4/4/4	6:00 - 10:30 PM	120	25	64		31	14	75		31	96
Free (0)	10:30 PM - 8:00 AM										

CALCULATED LMZ
CHECKED GAB

SUMMER COORDINATION TIMING

ERI-250-0.00

419E
677

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Coordination Data -Bay Winds Drive											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT	ACT	COORD		ACT	
Ph Min Veh (in seconds)			13.0	27.0		17.0	14.0	26.0		17.0	
Ph Min Ped				25.8		32.7		30.4			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	13	57		20	15	55		20	31
4/2/4	8:30 AM - 11:45 AM	120	14	76		30	18	72		30	78
4/3/4	11:45 AM - 6:30 PM	120	13	76		31	21	68		31	92
4/4/4	6:30 - 10:30 PM	120	13	76		31	21	68		31	92
4/1/4	NON-ART	120	14	78		28	16	76		28	70
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	14	76		30	18	72		30	78
4/3/4	1:00 PM - 6:00 PM	120	13	76		31	21	68		31	92
4/4/4	6:00 - 10:30 PM	120	13	76		31	21	68		31	92
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - SR-2 WB											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD		ACT		COORD			
Ph Min Veh (in seconds)			14.0	26.0		16.0		27.0			
Ph Min Ped								43.5			
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	16	44		30		60			37
4/2/4	8:30 AM - 11:45 AM	120	15	60		45		75			67
4/3/4	11:45 AM - 6:30 PM	120	14	73		33		87			98
4/4/4	6:30 - 10:30 PM	120	14	73		33		87			98
4/1/4	NON-ART	120	15	50		55		65			67
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	15	60		45		75			67
4/3/4	1:00 PM - 6:00 PM	120	14	73		33		87			98
4/4/4	6:00 - 10:30 PM	120	14	73		33		87			98
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - SR-2 EB											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode				COORD				COORD		ACT	
Ph Min Veh (in seconds)				26.0				26.0		16.0	
Ph Min Ped								23.9		38.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90		57				57		33	41
4/2/4	8:30 AM - 11:45 AM	120		80				80		40	85
4/3/4	11:45 AM - 6:30 PM	120		78				78		42	110
4/4/4	6:30 - 10:30 PM	120		78				78		42	110
4/1/4	NON-ART	120		80				80		40	85
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120		80				80		40	85
4/3/4	1:00 PM - 6:00 PM	120		78				78		42	110
4/4/4	6:00 - 10:30 PM	120		78				78		42	110
Free (0)	10:30 PM - 8:00 AM										

Coordination Data - Bogart Rd.											
Coord. Phase:	2 & 6		All split times and offsets are in seconds								
Offset Mode	End Green of Phases 2 & 6										
Coordination Mode: Permissive Mode											
Plans											
Movement			NB LT	SB	EB LT	WB	SB LT	NB	WB LT	EB	
Mode			ACT	COORD	ACT	ACT	ACT	COORD	ACT	ACT	
Ph Min Veh (in seconds)			13.0	26.0	14.0	17.0	13.0	26.0	14.0	17.0	
Ph Min Ped (in seconds)				28.8		36.0		30.0		32.8	
Time Plan	Time of Day	Cycle Length	1	2	3	4	5	6	7	8	Offset 1
	Weekday		All split times and offsets are in seconds								
1/3/4	6:30 - 8:30 AM	90	14	38	16	22	14	38	14	24	66
4/2/4	8:30 AM - 11:45 AM	120	16	55	20	29	16	55	14	35	19
4/3/4	11:45 AM - 6:30 PM	120	16	56	22	26	16	56	14	34	40
4/4/4	6:30 - 10:30 PM	120	16	56	22	26	16	56	14	34	40
4/1/4	NON-ART	120	16	55	20	29	16	55	14	35	19
Free (0)	10:30 PM - 6:30 AM										
	Weekend										
4/2/4	8:00 AM - 1:00 PM	120	16	55	20	29	16	55	14	35	19
4/3/4	1:00 PM - 6:00 PM	120	16	56	22	26	16	56	14	34	40
4/4/4	6:00 - 10:30 PM	120	16	56	22	26	16	56	14	34	40
Free (0)	10:30 PM - 8:00 AM										

CALCULATED LMZ
CHECKED GAB

SUMMER COORDINATION TIMING

ERI-250-0.00

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10/20/2014 11:15:21 AM
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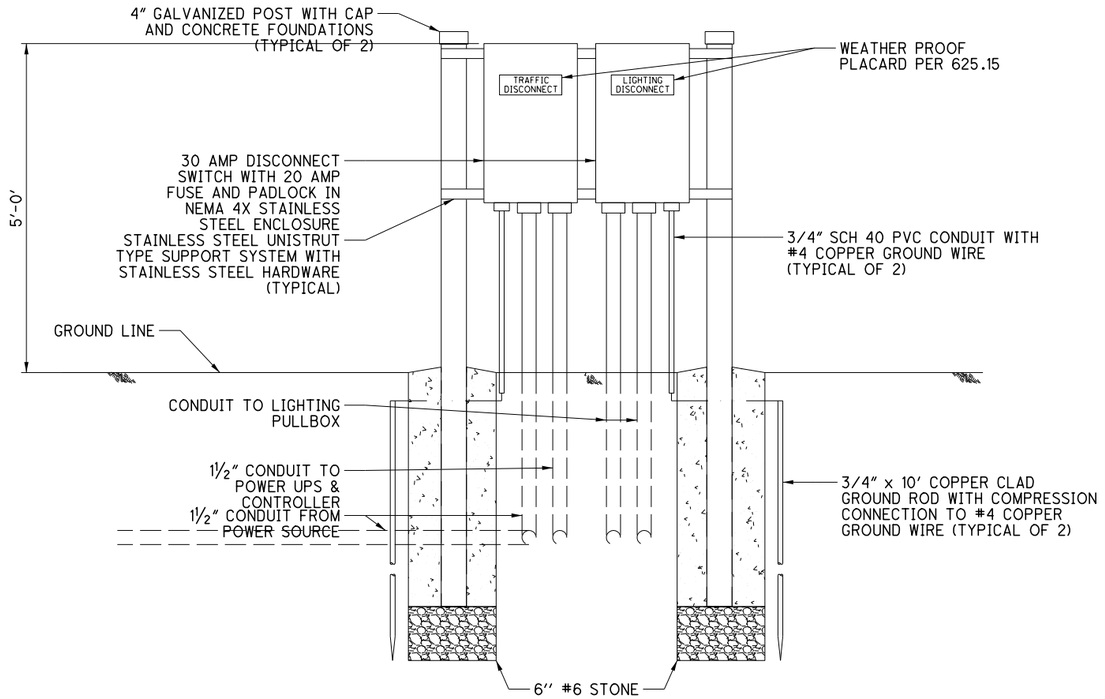
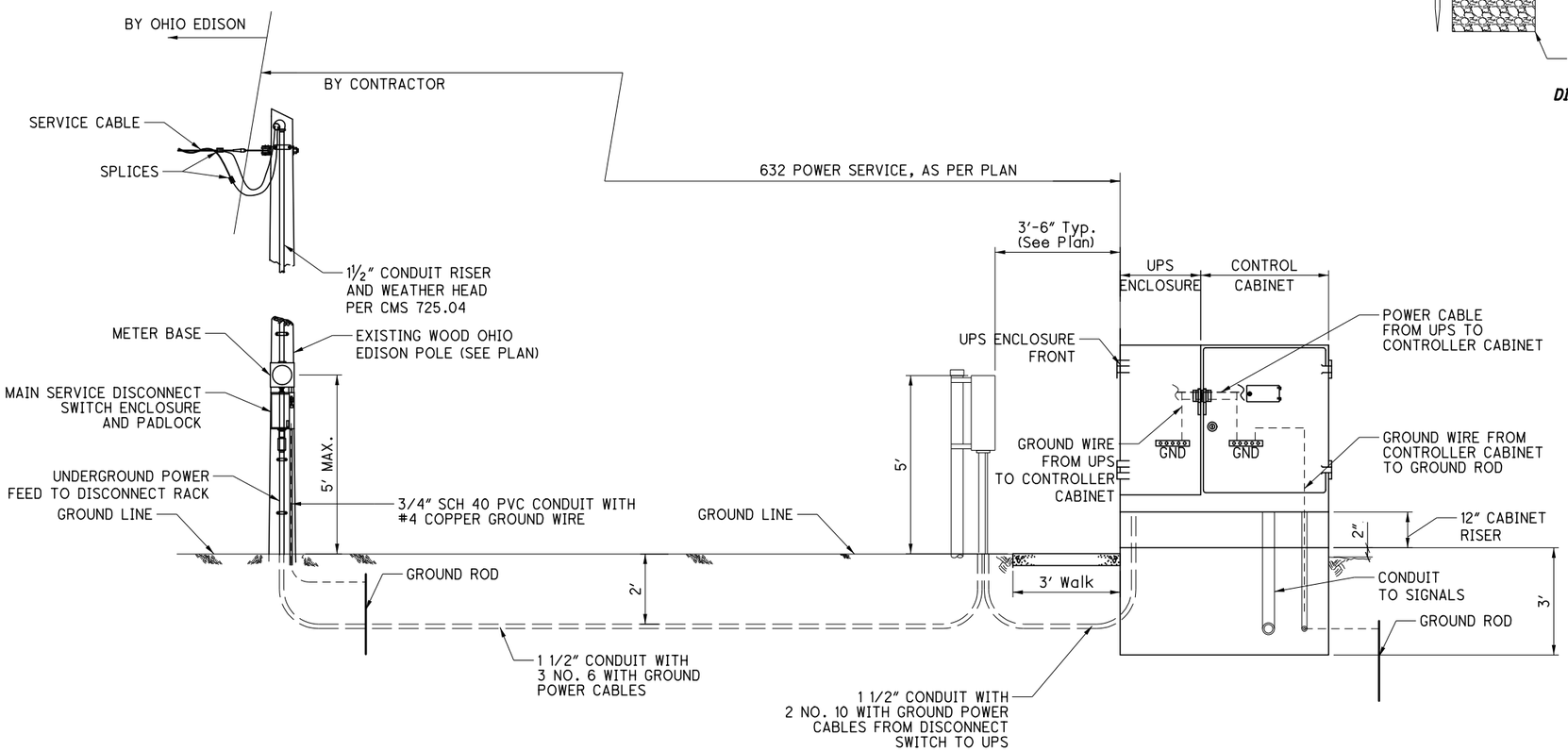
ENTIRE DISCONNECT RACK PAINTED
HUNTER GREEN SEE GENERAL NOTES



DISCONNECT RACK



POWER SERVICE CONDUIT RISER (SEE SCD TC-83.10)

DISCONNECT RACK (SEE SCD HL-40.10 AND HL-40.20 FOR ADDITIONAL DETAILS)

UPS ENCLOSURE & CONTROL CABINET (SEE TC-83.20 AND PIS 208320)

632 POWER SERVICE, EACH, INCLUDES ALL ITEMS SHOWN, INCLUDING WEATHERHEAD AND RISER, METER BASE AND MAIN DISCONNECT, GROUND RODS, DISCONNECT RACK, CONDUIT AND TRENCH. POWER CABLE IS ITEMIZED SEPARATELY.

CALCULATED | CHECKED

632 POWER SERVICE DETAILS

ERI-250-0.00

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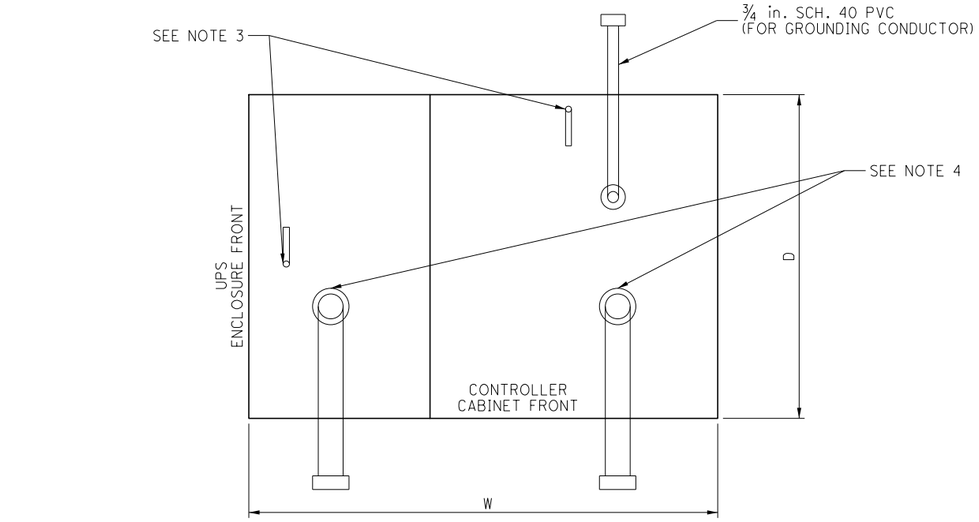

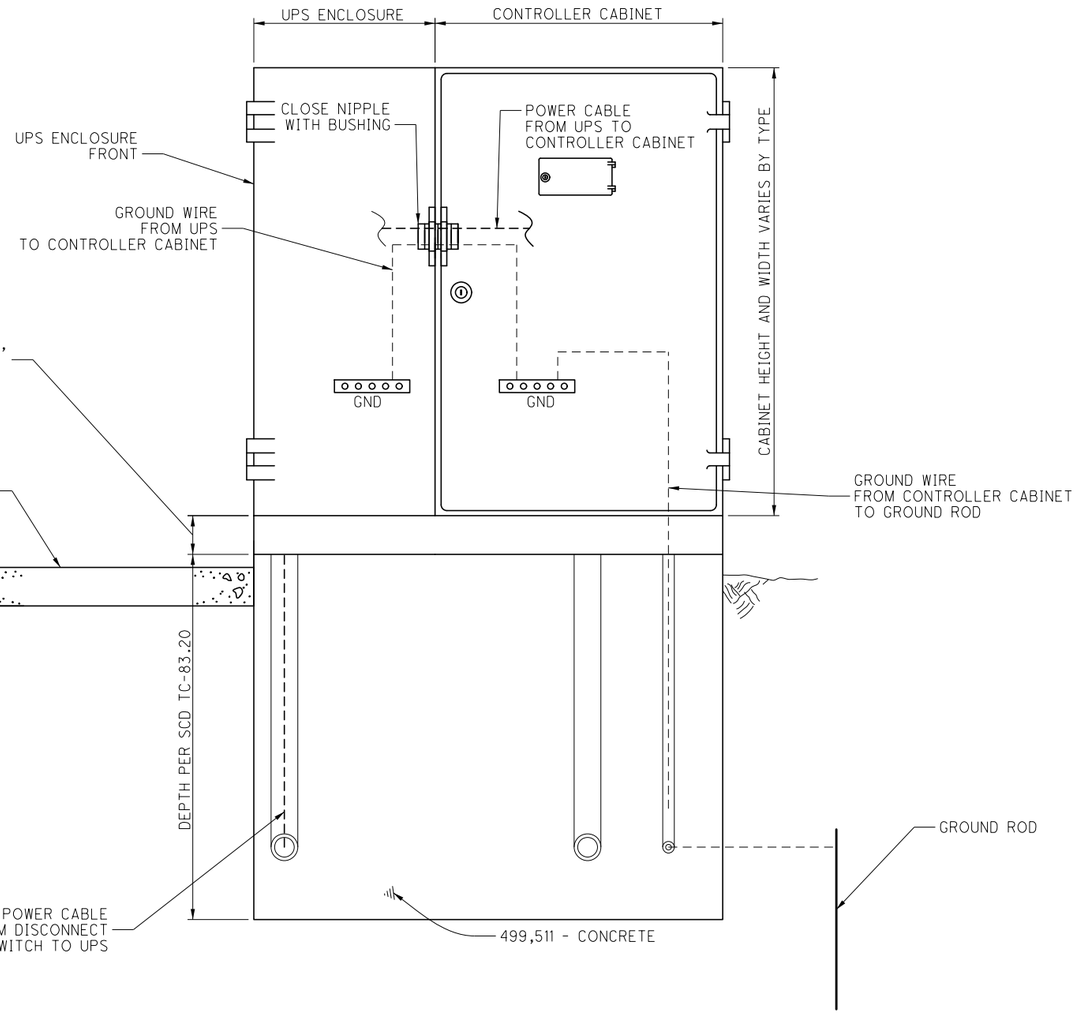

1. The Uninterruptible Power Supply (UPS) enclosure shall be mounted flush up against the traffic signal cabinet and sealed with silicone. The Contractor shall be responsible for providing the necessary power cable between the UPS unit and signal cabinet.

2. The UPS should be placed on the opposite side of the pull box on a 332/336 cabinet (per Standard Construction Drawing TC-83.20). The UPS placement for a NEMA cabinet varies, placement should provide adequate access with respect to slope, guardrail spacing, etc...

3. The size, number, and location of anchor bolts shall be in accordance with the manufacturer's recommendations.

4. The size, number, and orientation of conduit ells shall be as shown in the plan, except that a ¾ inch schedule 40 PVC shall be installed in each foundation.

5. ½ inch preformed joint filler as per CMS 705.03 shall be used between foundations and adjacent paved areas.

6. See Standard Construction Drawing TC-83.20 for further details.

TYPE	W (Inches)	D (Inches)	FOUNDATION CONCRETE (Cu. Yd.)
TS-1	60	24	1.23
TS-2	70	36	2.16
2070/170	50	36	1.54

CALCULATED | CHECKED

PID NUMBER 208320

UNINTERRUPTIBLE POWER SUPPLY (UPS) AND CONTROLLER CABINET FOUNDATION

ERI-250-0.00

421
677

10/20/2014 11:15:23 AM

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MATERIAL SPECIFICATIONS FOR BBS GENERATOR POWER PANEL EQUIPMENT

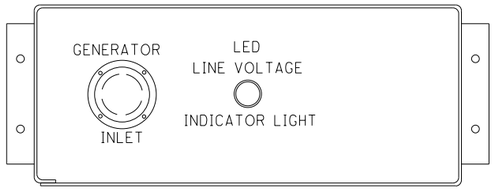
GENERATOR INLET --- The inlet shall be 30 amp, 125/250V, locking, four (4) wire grounding and meet the NEMA configuration number L14-30-P 30A 125/250V specification. The inlet shall be a Hubbell catalog #2715.

LINE VOLTAGE GENERATOR SWITCH --- The switch shall be 30 amp, 125/250V AC, two (2) pole, three (3) position (On, Off, On). The switch shall be a Hubbell catalog #1388.

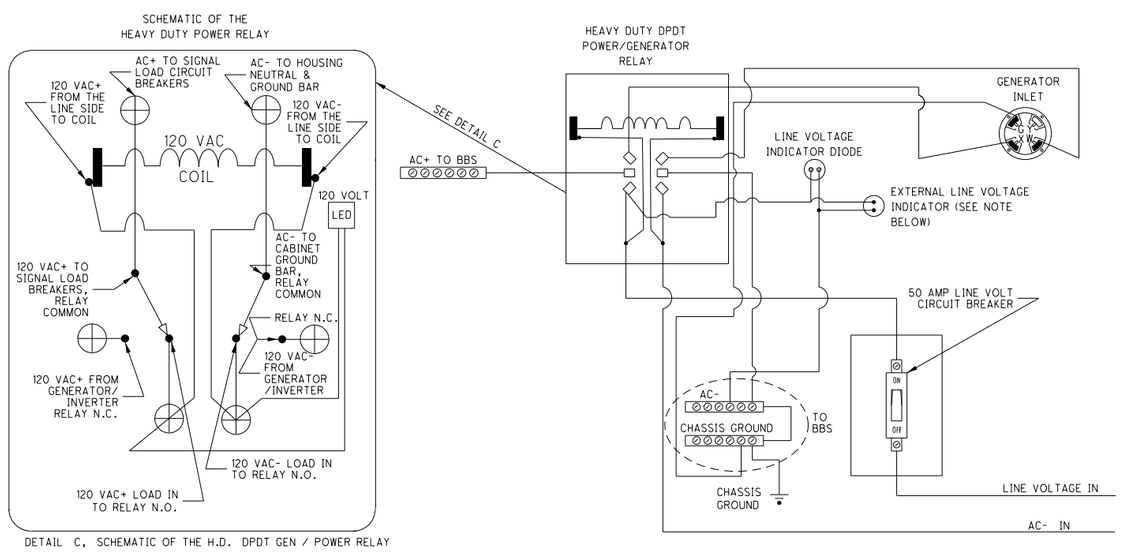
LINE VOLTAGE INDICATOR LIGHT --- The indicator light shall be a 125V AC light emitting diode with a red lens.

LINE VOLTAGE CIRCUIT BREAKER --- The circuit breaker shall be single pole single throw and a minimum of 30 amps. The amperage shall be increased to accomodate greater loads, if necessary. The gauge of the power cable shall be of proper size per the N.E.C.

EXTERNAL LINE VOLTAGE INDICATOR LIGHT --- The indicator light shall be a 1-inch (25mm) waterproof NEMA 4X or IP66 LED lamp with a GREEN lens.



FRONT VIEW OF GENERATOR POWER PANEL

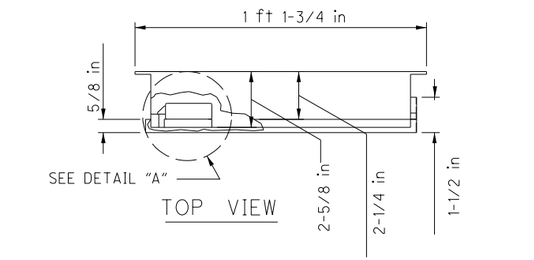


DETAIL C, SCHEMATIC OF THE H.D. DPDT GEN / POWER RELAY

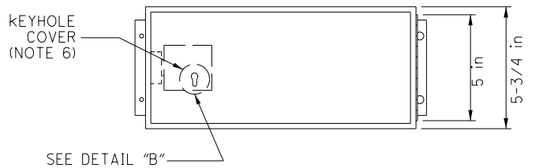
ELECTRICAL HOOKUP DETAIL FOR THE BBS GENERATOR POWER PANEL

NOTE : EXTERNAL LINE VOLTAGE INDICATOR LIGHT required when called for in the plans.
EXTERNAL LINE VOLTAGE INDICATOR LIGHT shall be located on the enclosure exterior for visibility from the adjacent roadway when all cabinet, and generator panel doors are closed.

GENERATOR POWER PANEL ENCLOSURE



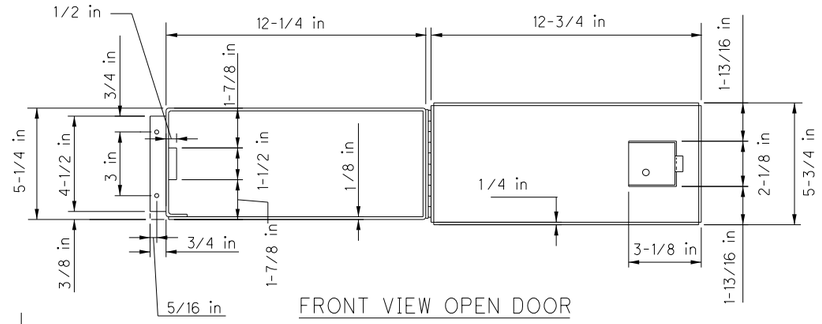
TOP VIEW



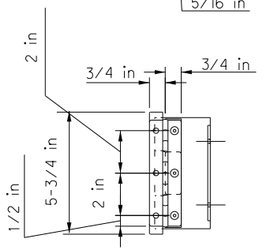
FRONT VIEW CLOSED DOOR

NOTES

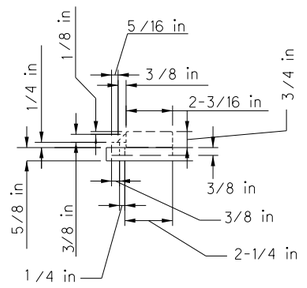
1. The enclosure shall be constructed Of 1/8 inch thick aluminum.
2. The lock shall be the standard police door type, keyed with the standard flasher door skeleton key.
3. The door shall be sealed with a foam rubber gasket to prevent moisture from entering the enclosure.
4. The enclosure shall be mounted onto the outside of the controller cabinet with non-accessible bolts and sealed with a high quality silicon caulk at all surfaces touching the cabinet.
5. The hinge shall be of stainless steel or equivalent corrosive-resistant material.
6. Keyhole shall be covered with a movable circular aluminum or brass cover with top pivot pin.



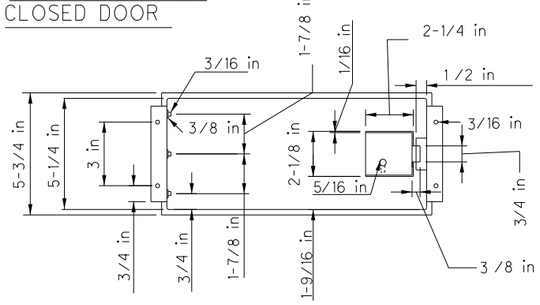
FRONT VIEW OPEN DOOR



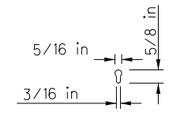
RIGHT SIDE VIEW CLOSED DOOR



DETAIL "A"



BACK VIEW CLOSED DOOR



DETAIL "B"

BATTERY BACKUP SYSTEM (BBS)
GENERATOR POWER PANEL

PJS NUMBER 203012

CALCULATED | CHECKED

ERI-250-0.00

422
677

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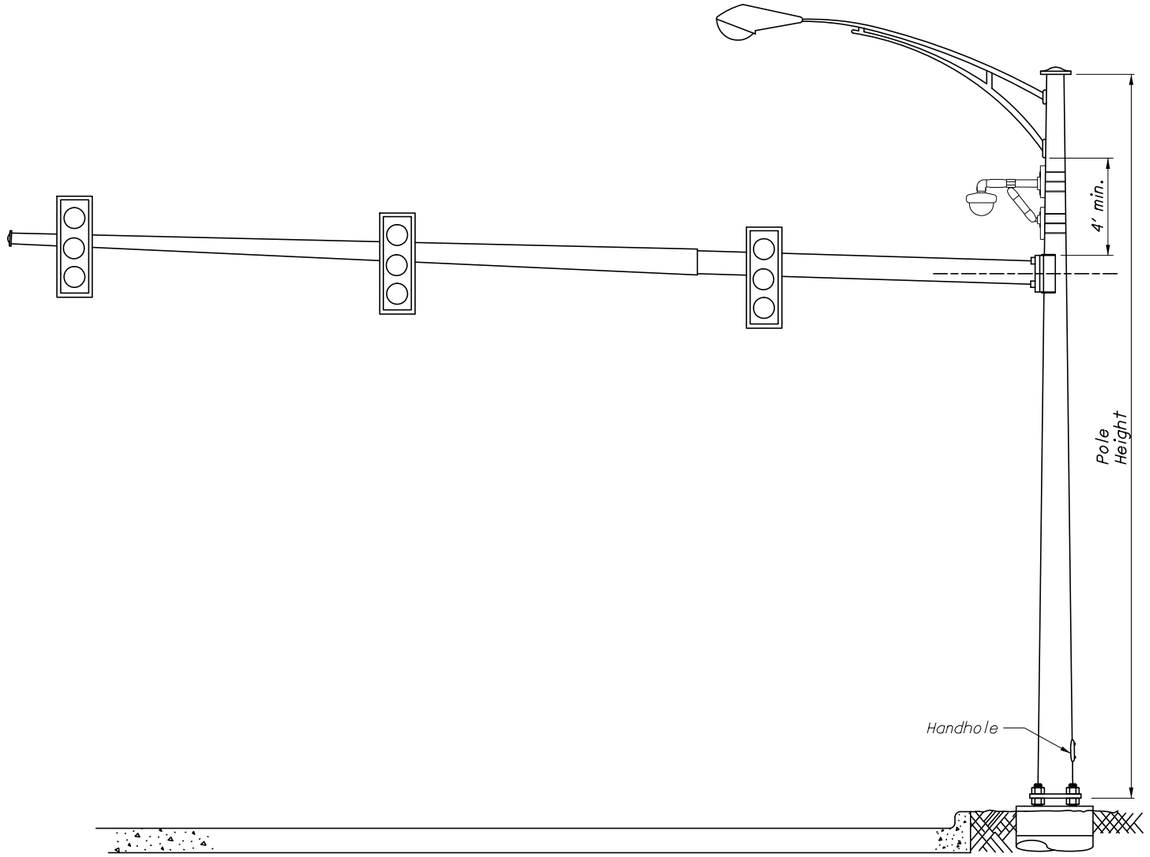
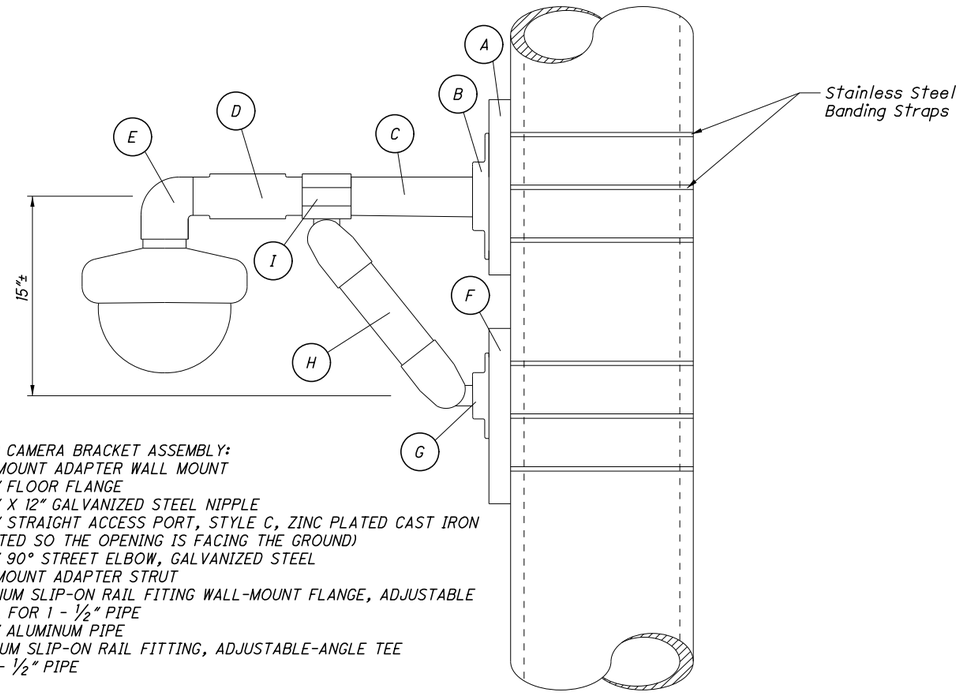


SIGNAL POLE WITH MAST ARM

NOT TO SCALE



POLE MOUNTED CAMERA BRACKET ASSEMBLY:

A. POLE MOUNT ADAPTER WALL MOUNT
B. 1 - ½" FLOOR FLANGE
C. 1 - ½" X 12" GALVANIZED STEEL NIPPLE
D. 1 - ½" STRAIGHT ACCESS PORT, STYLE C, ZINC PLATED CAST IRON (ORIENTED SO THE OPENING IS FACING THE GROUND)
E. 1 - ½" 90° STREET ELBOW, GALVANIZED STEEL
F. POLE MOUNT ADAPTER STRUT
G. ALUMINUM SLIP-ON RAIL FITING WALL-MOUNT FLANGE, ADJUSTABLE ANGLE, FOR 1 - ½" PIPE
H. 1 - ½" ALUMINUM PIPE
I. ALUMINUM SLIP-ON RAIL FITTING, ADJUSTABLE-ANGLE TEE FOR 1 - ½" PIPE

NOTES:

1. SHALL BE CAPABLE OF SUPPORTING CCTV ASSEMBLY UNITS UP TO 75 LBS.
2. ALL CONNECTION POINTS SHALL BE PROPERLY SEALED TO ENSURE WEATHER PROOF CABLE PATHWAY FROM SIGNAL POLE INTO CCTV ASSEMBLY UNIT.
3. PTFE ANTI-SIEZE THREAD SEALANT SHALL BE USED ON ALL FITTINGS
4. SCREWS NO SMALLER THAN ¼" - 20
5. LOCK AND FLAT WASHERS SHALL BE USED
6. NO EXPOSED CABLES - ALL CABLING SHALL BE HIDDEN BY BRACKET ASSEMBLY UNIT.
7. ALL HARDWARE SHALL BE STAINLESS STEEL.
8. ALL SCREWS SHALL BE HEX HEAD CAP SCREWS.
9. ALL ITEMS ARE TO PAINTED HUNTER GREEN (FS595C, COLOR, 14109) TO MATCH SUPPORT.

DETAIL POLE ADAPTERS AND BRACKET

NOT TO SCALE

CALCULATED | CHECKED

MAST ARM CAMERA MOUNT

ERI-250-0.00

423
677

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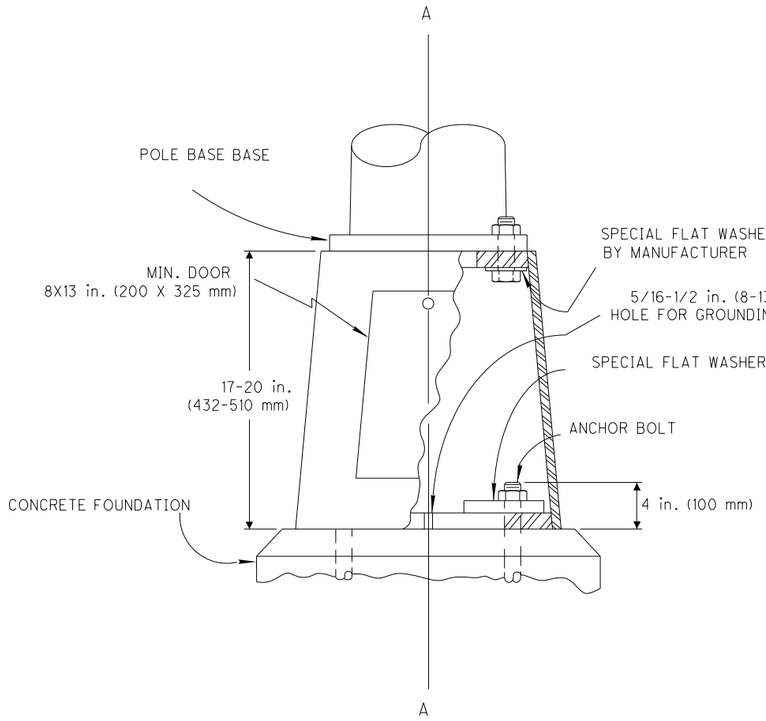

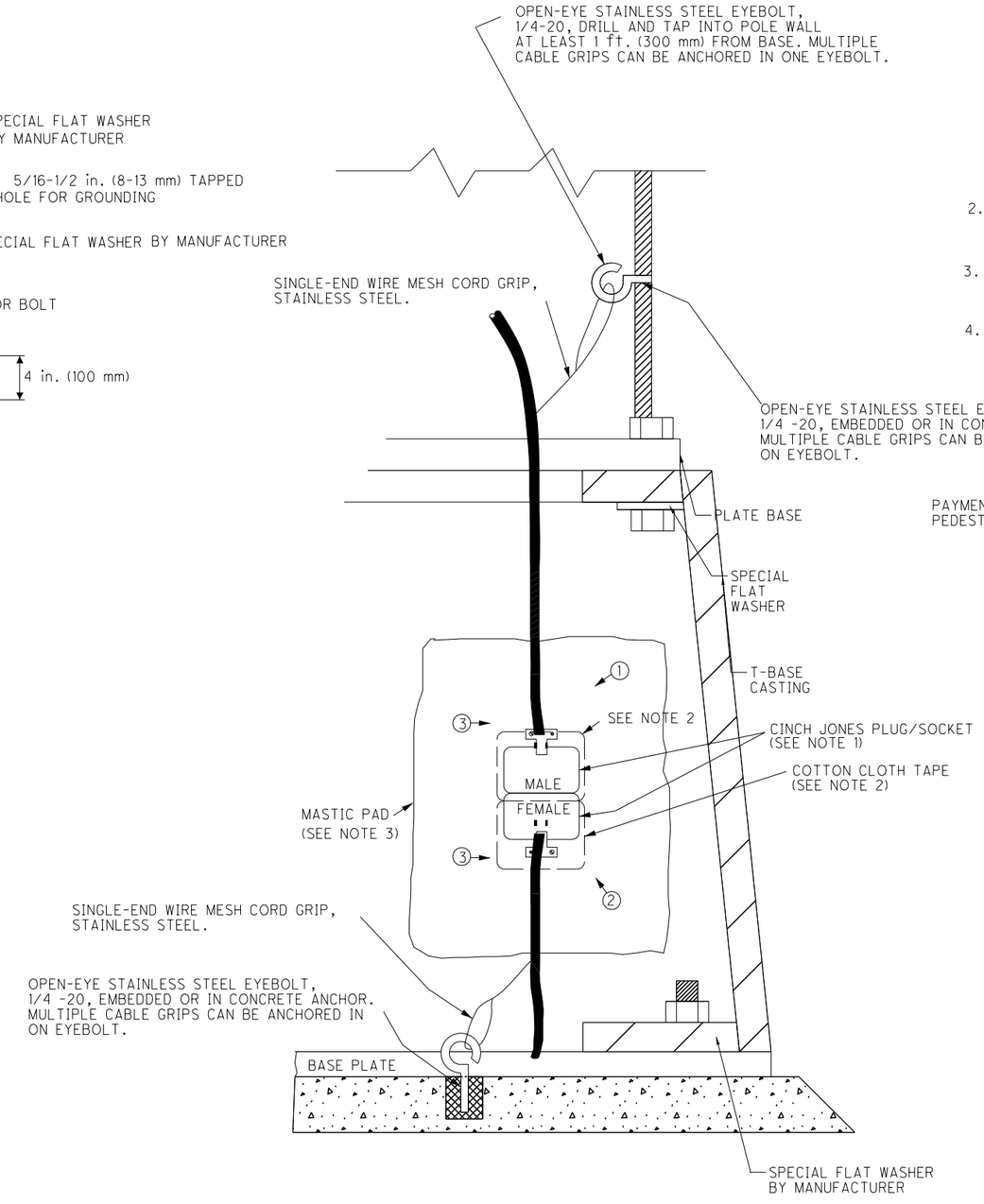

DETAIL A-A

NOTES:

1. Use Cinch Jones Plug/Socket with Hood and 180 degree cable clamp :

   A) 5C Signal Cable, use 6 position plug/socket:
      P - 2406 - CCT
      S - 2406 - CCT

   B) 7C Signal Cable:
      P - 2408 - CCT
      S - 2408 - CCT

   To enhance breakaway action, assure that connectors hang vertically between cord grips with limited slack between eyebolt anchor points.

2. Use cotton cloth tape, applied separately to each connector, to prevent bonding of mastic to connector hoods.

3. Use a Mastic Pad for moisture seal:
   3M #2200, 0.125 x 6.5 x 4.5 inches
   (3 x 165 x 114 millimeters) or equivalent.

4. Numbered circles indicate sequence of the mastic pad folds and the direction of the folds. See manufacturer's instructions for installation details.

PAYMENT-COST INCLUDED FOR PAYMENT WITH ITEM 632, PEDESTAL, 8' TRANSFORMER BASE, AS PER PLAN.

CALCULATED | CHECKED

PJS NUMBER 208340

BREAKAWAY TRANSFORMER BASE
CONNECTOR DESIGN

ERI-250-0.00

426
677

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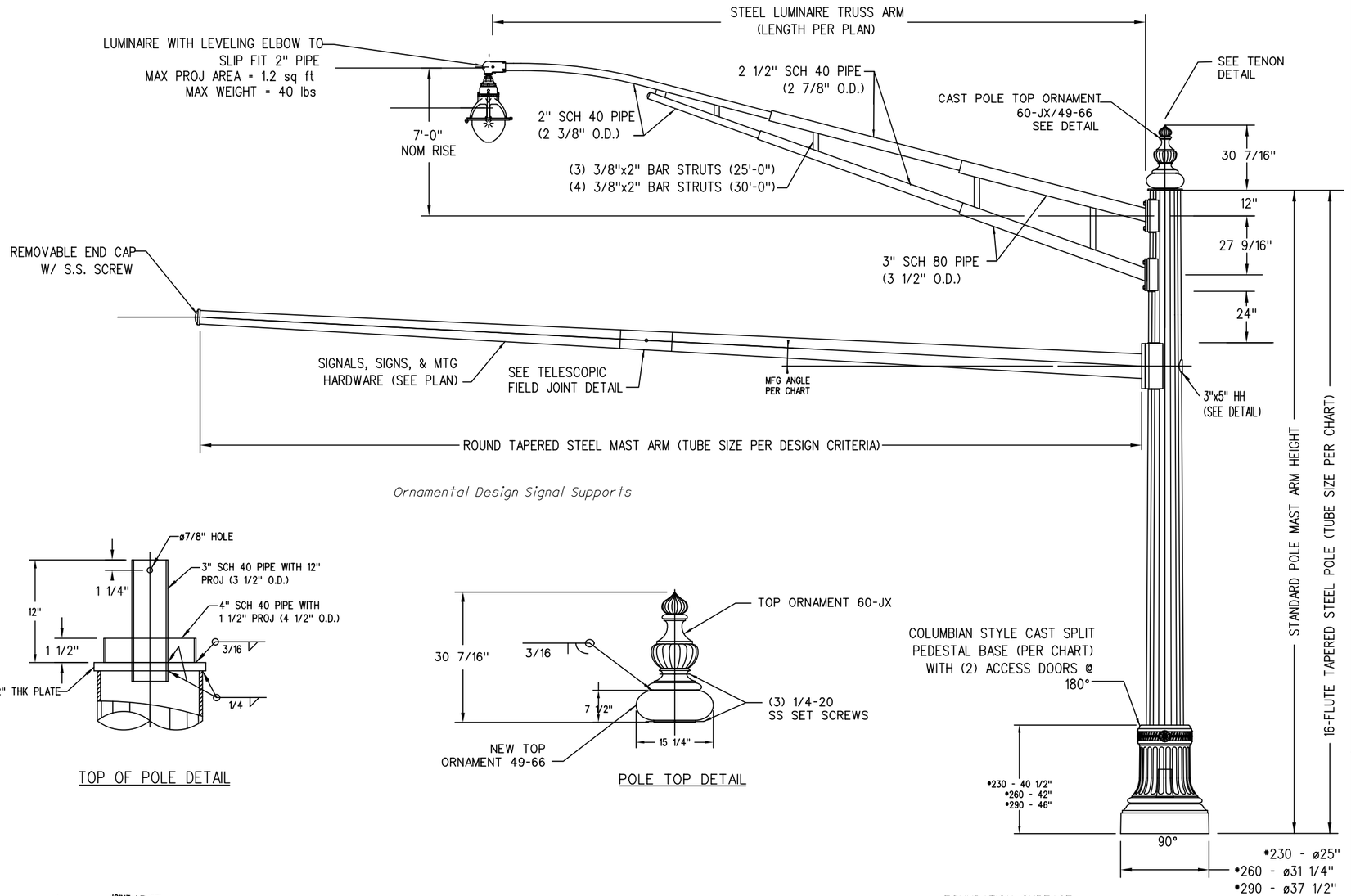
	SUPPORT •	\G1033;\G1033;\b\iUMC DESIGN NUMBER	MAST ARM DATA					MAST ARM FLANGE CONNECTION DATA								POLE TUBE SIZE	POLE BASE CONNECTION DATA						LUMINAIRE TRUSS ARM	BASE
			SPAN	TUBE SIZE	MFG ANGLE	ORIENT	JOINT LENGTH	BOLT ø	X	Y	W	H	APL	PPL	G		B.C.	S	F	P	T	A.BOLT SIZE		
	SS-1	50315-B107-Y1	45'-0"	7E-11.00x8.20x20'-0" 11E-8.73x4.99x26'-9"	2°	180°	1'-9"	1	9 1/2	12 1/2	14 1/2	16 1/2	1 1/4	1	1/4	7F-15.00x10.38x33'-0"	20	20 1/2	14 1/8	8 1/2	2	2 X 90 X 6	30'-0	260
	SS-2	50315-B107-Y2	39'-0"	7E-10.50x5.04x39'-0"	2°	180°	-	1	9 1/2	12 1/2	14 1/2	16 1/2	1 1/4	1	1/4	7F-15.00x10.38x33'-0"	20	20 1/2	14 1/8	7 3/4	2	1 3/4 X 90 X 6	30'-0	
	SS-3	50315-B107-Y3	51'-0"	7E-13.00x8.80x30'-0" 11E-9.36x6.14x23'-0"	3°	180°	2'-0"	1 1/4	12	15	16 1/2	19 1/2	1 1/2	1 1/4	1/4	7F-17.00x12.38x33'-0"	22	23	15 9/16	8 1/2	2	2 X 90 X 6	30'-0	290
	SS-4	50315-B107-Y4	25'-0"	7E-7.50x4.00x25'-0"	2°	180°	-	1	6 1/2	10	11	14	1	1	3/16	3F-11.00x6.38x33'-0"	15	15 5/8	10 5/8	6 3/4	1 1/2	1 1/2 x 54 x 6	25'-0	230

11 GA = 0.120" WALL THICKNESS
7 GA = 0.179" WALL THICKNESS
3 GA = 0.250" WALL THICKNESS
E = ROUND TAPERED STEEL TUBE @ 0.14 in/ft TAPER
F = 16-FLUTE TAPERED STEEL TUBE @ 0.14 in/ft TAPER



Ornamental Design Signal Supports

DESIGN CRITERIA

1. FOR DESIGN CRITERIA, SEE GENERAL NOTES.

2. ANCHOR BOLTS ANALYZED FOR STEEL STRENGTH ONLY. THE ANCHOR BOLT EMBEDMENT LENGTH SHOWN ON THIS DRAWING SHALL BE VERIFIED BY THE FOUNDATION ENGINEER.

3. THE EXPOSED LENGTH OF THE ANCHOR BOLT BETWEEN THE TOP OF THE FOUNDATION AND THE BOTTOM OF THE LEVELING NUT SHOULD NOT EXCEED ONE BOLT DIAMETER.

4. PER AASHTO THE MINIMUM LENGTH OF ANY TELESCOPIC FIELD JOINT SHALL BE 1.5 TIMES THE INSIDE DIAMETER OF THE END OF THE FEMALE SECTION.

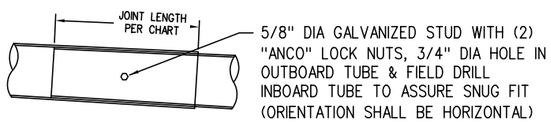
5. VIBRATION IS MORE LIKELY TO OCCUR WHEN STRUCTURES ARE INSTALLED WITHOUT ATTACHING THE SIGNALS AND OR SIGNS. THEREFORE, THE INTENDED EQUIPMENT OR DAMPENING DEVICES MUST BE INSTALLED AT THE TIME OF ERECTION. BECAUSE VIBRATION IS GENERALLY UNPREDICTABLE, A MAINTENANCE PROGRAM SHOULD INCLUDE INSPECTION FOR INDICATIONS OF EXCESSIVE VIBRATION OR FATIGUE AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING.

6. CUSTOMER TO CONFIRM ALL DIMENSIONS & ORIENTATIONS BEFORE RELEASING ORDER FOR MANUFACTURING.

MATERIAL SPECIFICATIONS	
TAPERED TUBE	ASTM A595 GR A
PLATE	ASTM A36
HANDHOLE FRAME	ASTM A529 GR 50 or ASTM A572 GR 50 or ASTM A709 GR 50
HANDHOLE COVER	ASTM A1011
ANCHOR BOLTS	ASTM F1554 GR 105
ANCHOR BOLT NUTS	ASTM A563 GR DH
FLAT WASHERS	ASTM F436
ALUM. CASTINGS	ASTM B26 (319F or 356.0F)
ARM CONN. BOLTS	ASTM A325
ARM END CAP	ASTM A1011
PIPE	ASTM A501 or A53 GR B
S.S. HARDWARE	AISI-300 SERIES (18-8)
STRUCTURE FINISH	PER SALES ORDER
HARDWARE FINISH	HD GALV TO ASTM A153

TOP OF POLE DETAIL

POLE TOP DETAIL



TELESCOPIC FIELD JOINT DETAIL
(FOR ARMS OVER 40')

FOUNDATION SURFACE WITHIN MUST BE LEVEL

CALCULATED | CHECKED

ORNAMENTAL DESIGN SIGNAL SUPPORTS

ERI-250-0.00

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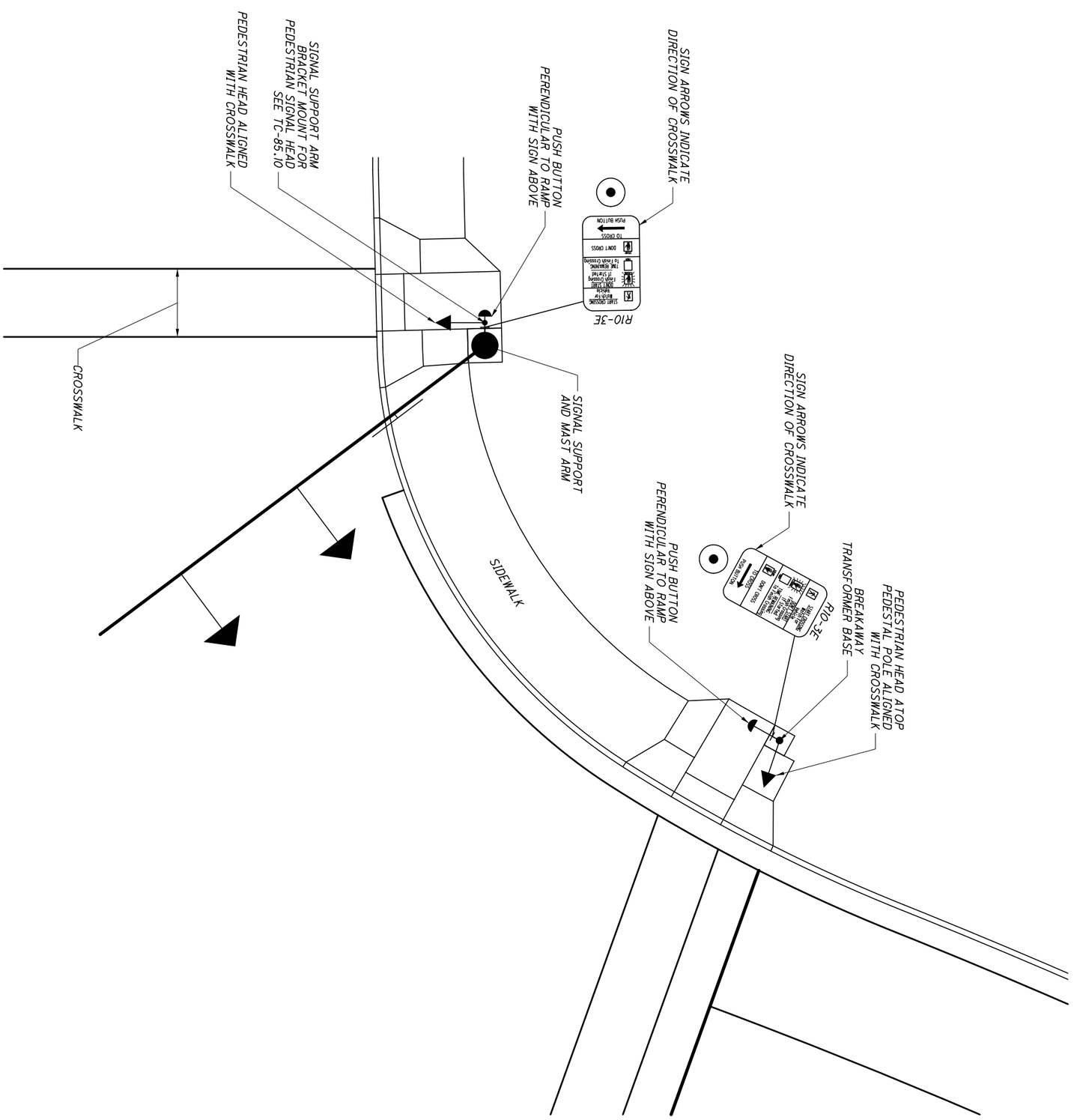

428 / 677	ERI-250-0.00	TYPICAL PEDESTIAN PUSH BUTTON AND SIGN TRAFFIC SIGNAL DETAIL	CALCULATED / CHECKED	0 5 2.5 10 HORIZONTAL SCALE IN FEET

T6, STA. 0+02.3, 40.8' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C4, 18' CONDUIT, 1-¼", 725.051
B2, STA. 9+27.5, 31.9' LT.
PULL BOX, 24", 725.08
C3, 36' CONDUIT, 3", 725.051
B30, STA. 9+06.8, 25.0' LT.
PULL BOX, 24", 725.08
C30, 12' CONDUIT, 2", 725.051
M1, STA. 8+96.5, 30.6' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN, ARM 27', WITH LIGHT POLE EXTENSION, L1, 15' BRACKET ARM, LED
C2, 5' CONDUIT, 3", 725.051
B1, STA. 8+92.0, 32.5' LT.
PULL BOX, 24", 725.08
C1, 10' CONDUIT, 1-¼", 725.051
T5, STA. 8+86.5, 24.5' LT.
PEDESTAL, 8' TRANSFORMER BASE, AS PER PLAN
C37, 66' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C24, 70' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
T14, STA. 8+86.5, 23.2' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
GAS IN CLOSE PROXIMITY
T13, STA. 8+75.5, 28.7' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
T12, STA. 8+36.4, 50.0' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C19, 6' CONDUIT, 1-¼", 725.051
B10, STA. 8+39.2, 55.2' RT
PULL BOX, 24", 725.08
C20, 43' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C23, 8' CONDUIT, 1-¼", 725.051
B9, STA. 8+77.9, 35.9' RT
PULL BOX, 24", 725.08
C21, 6' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
M4, STA. 8+83.5, 34.0' RT.
COMBINATION SIGNAL SUPPORT,TYPE TC-81.21, DESIGN 2, AS PER PLAN, ARM 26', WITH LIGHT POLE EXTENSION, 15' BRACKET ARM, L4A, 15' BRACKET ARM, L4B, LED, AND SIDE ARM SIGNAL, 2H
C36, 4' CONDUIT, 1-¼", 725.051
B33, STA. 8+84.8, 37.5' RT.
PULL BOX, 24", 725.08
M2, STA. 0+62.7, 38.0' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN, ARM 23' WITH LIGHT POLE EXTENSION L2, 15' BRACKET ARM w/LED
C7, 4' CONDUIT, 3", 725.051
B3, STA. 0+61.3, 41.5' LT
PULL BOX, 24", 725.08
C6, 8' CONDUIT, 1-¼", 725.051
T7, STA. 0+57.7, 34.5' LT.
PEDESTAL, 8', TRANSFORMER BASE
C5, 75' CONDUIT JACKED OR DRILLED, AS PER PLAN, 4"
C31, 104' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C33, 15' CONDUIT, 1-¼", 725.051
M3, STA. 0+65.8, 27.1' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN, ARM 44' WITH LIGHT POLE EXTENSION L3, 15' BRACKET ARM WITH LED, AND SIDE ARM SIGNAL, 6H
C32, 5' CONDUIT, 2", 725.051
T8, STA. 0+74.8, 32.8' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C13, 5' CONDUIT, 1-¼", 725.051
B6, STA. 0+74.0, 27.4' LT
PULL BOX, 24", 725.08
C8, 52' CONDUIT JACKED OR DRILLED, AS PER PLAN, 4"
B4, STA. 1+08.2, 64.8' LT
PULL BOX, 24", 725.08
C12, 48' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
T9, STA. 1+12.8, 52.2' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C9, 30' CONDUIT, 4", 725.051
C11, 8' CONDUIT, 1-¼", 725.051
B5, STA. 1+18.3, 46.4' LT
PULL BOX, 24", 725.08
C10, 16' CONDUIT, 3", 725.051
PROP. POWER SOURCE
POWER SERVICE, AS PER PLAN
STA. 1+35.6, 50.5' LT CONTROLLER, WITH FOUNDATION, AND BATTERY BACK UP SYSTEM
C35, 2' CONDUIT, 3", 725.051
B32, STA. 1+40.8, 44.1' LT
PULL BOX, 24", 725.08
EXISTING CONTROLLER
C34, 73' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C14, 8' CONDUIT, 3", 725.051
B31, STA. 0+70.7, 25.0' LT.
PULL BOX, 24", 725.08
C15, 63' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
T10, STA. 0+46.2, 24.2' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C16, 5' CONDUIT, 1-¼", 725.051
B7, STA. 0+42.2, 26.7' RT.
PULL BOX, 24", 725.08
C17, 26' CONDUIT, 1-¼", 725.051
B8, STA. 0+16.6, 26.6' RT.
PULL BOX, 24", 725.08
C18, 27' CONDUIT, 1-¼", 725.051
T11, STA. 9+35.9, 43.2' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C22, 15' CONDUIT, 1-¼", 725.051

SYCAMORE LINE
CLEVELAND ROAD (US 6)
Ex R/W
R/W
TMP
R1
R1A
R1B
R2
R3
R3A
R3B
R4A
R4B
R4B1
R4B2
S1
S2H
S3
S4H
8A
8B
2H
4H
4+79
4+69
RES. #1302
RES. #1305
RES. #1309
GAR.
DWK.
(CONC)
474
473
35'
30'

NOTE:

FOR ROADWAY PLANS SEE SHEET - 135, 246
FOR PAVEMENT MARKING PLANS SEE SHEET - 364
FOR SIGNING PLANS SEE SHEET - 387
SEE SHEET 412 FOR OVERHEAD SIGN DETAILS

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

SIGNS

Cleveland Rd
S1, S3
D3-1
81" x 18"

Sycamore Line
S2, S4
D3-1
96" x 18"

SIGNAL HEADS

W5-W14
W2H, W4H

2, 2H, 6, 6H
4, 8A, 8B

1, 5, 7

USE CUT AWAY VISORS FOR ALL SIGNAL HEADS

P4H, P8, P11
P13, P5, P7
R10-3E-9
24"X9"

P12, P9, P10,
P14, P6, P3H
R10-3E-9
24"X9"

TRAFFIC SIGNAL PLAN
SYCAMORE LINE AT CLEVELAND ROAD

ERI-250-0.00

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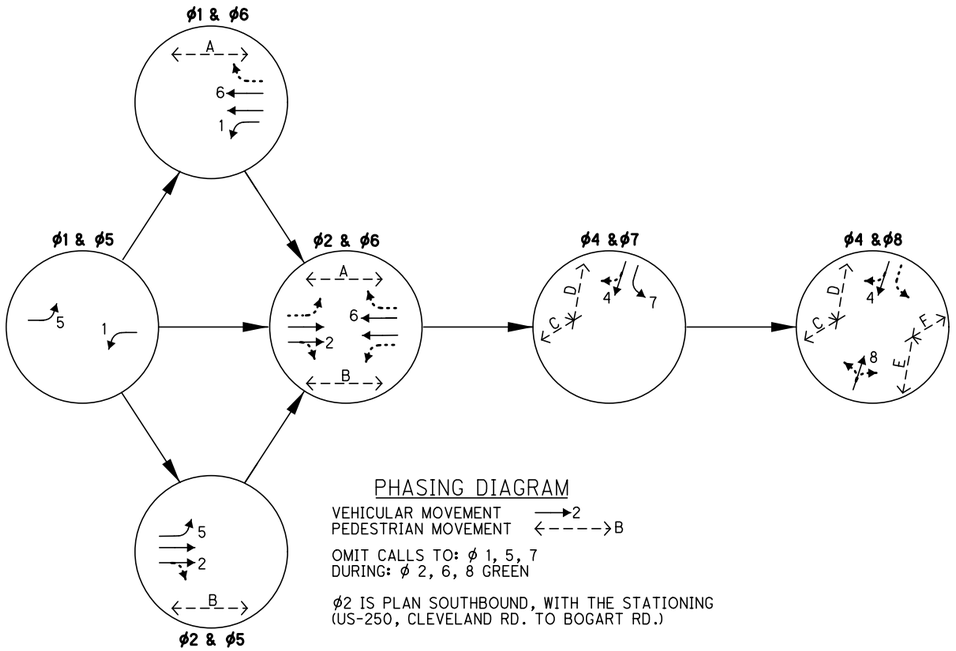

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT <- - - - ->B

OMIT CALLS TO: ϕ 1, 5, 7
DURING: ϕ 2, 6, 8 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (SYCAMORE LINE) AND US-6 (CLEVELAND RD.)
MAINTAINING AGENCY: CITY OF SANDUSKY

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 4 AND ϕ 8
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	10.0	-	20.0	7.0	10.0	7.0	20.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	3.0	4.0	3.0	4.0
ADDED INITIAL, SEC. PER ACT.		-	-	-	-	-	-	-	-
MAXIMUM INITIAL	(SEC)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	(SEC)	-	-	-	-	-	-	-	-
MINIMUM GAP	(SEC)	-	-	-	-	-	-	-	-
TIME TO REDUCE	(SEC)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	(SEC)	15.0	30.0	-	40.0	15.0	30.0	15.0	40.0
MAXIMUM GREEN II	(SEC)	15.0	30.0	-	40.0	15.0	30.0	15.0	40.0
YELLOW CHANGE	(SEC)	3.6	3.0	-	3.6	3.0	3.6	3.6	3.6
ALL RED CLEARANCE	(SEC)	1.9	2.5	-	2.0	2.5	1.9	2.0	2.0
WALK	(SEC)	-	5.0	-	5.0	-	6.0	-	5.0
PEDESTRIAN CLEARANCE	(SEC)	-	12.3	-	12.0	-	14.3	-	11.7
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			CLEVELAND ROAD	
625	280	FT	4" CONDUIT, TYPE E	
625	5	EACH	CONNECTOR KIT, TYPE II	
625	5	EACH	CONNECTOR KIT, TYPE III	
625	5	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1173	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	699	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	155	FT	CONDUIT, 1-1/4", 725.051	
625	17	FT	CONDUIT, 2", 725.051	
625	77	FT	CONDUIT, 3", 725.051	
625	30	FT	CONDUIT, 4", 725.051	
625	467	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	127	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 4"	
625	5	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	279	FT	TRENCH	
625	14	EACH	PULL BOX, 725.08, 24"	
625	18	EACH	GROUND ROD	
625	279	FT	PLASTIC CAUTION TAPE	
632	7	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	3	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	12	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	12	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	12	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	3647	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	819	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	10	EACH	PEDESTAL FOUNDATION	
632	2565	EACH	LOOP DETECTOR LEAD-IN CABLE	
632	44	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN	
632	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN, SANDUSKY	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN II, AS PER PLAN, SANDUSKY	
632	10	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	490	FT	PREEMPTION DETECTOR CABLE	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENOR MATRIX	
			", SANDUSKY" INDICATED ON SOME ITEMS FOR AASHTOWARE GENSUM PURPOSES ONLY	

CALCULATED LMZ
CHECKED GAB

PHASING, TIMING & QUANTITIES
TRAFFIC SIGNAL
SYCAMORE LINE AT CLEVELAND ROAD

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH FUSE, 120 V AC		FS — FUSED CONNECTORS (IN POLE) *	R1 R — STOP LINE RADAR DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER BASE		PC — PHOTO ELECTRIC CELL		7S — 7/C SIGNAL CABLE, NO. 14 AWG
POWER SOURCE	PR — PREEMPTION CABLE (FUTURE USE)	L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
3P — 3/C NO.6 WITH GROUND (POWER)		2B — 2/C NO.12 WITH GROUND POLE & BRACKET CABLE (LIGHTING)	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
2P — 2/C NO.10 WITH GROUND (POWER)		2D — 2/C NO. 10 AWG WITH GROUND DISTRIBUTION CABLE (LIGHTING)		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE DRAIN WIRE TO THE CONTROLLER GROUND.*

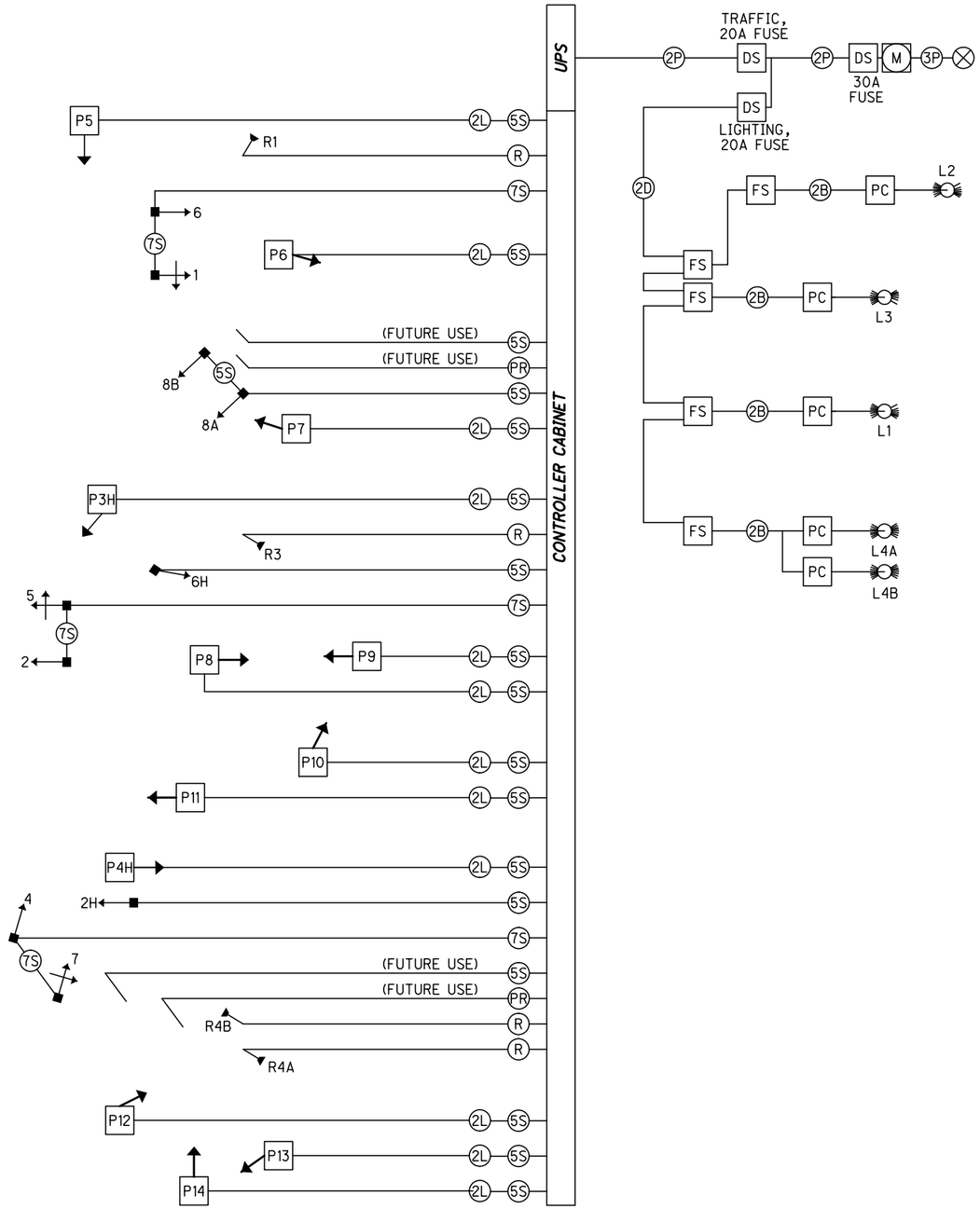
RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
R4B	R4B1	LEFT	PRESENCE	-	-	-	5
R4B	R4B2	THRU	PRESENCE	-	-	-	2
R3	B	LEFT	PRESENCE	-	-	-	1
R3	A	THRU	PRESENCE	-	-	-	6
R1	R1B	SIDEROAD LEFT	PRESENCE	-	-	-	7
R1	R1A	SIDEROAD THRU-RT	PRESENCE	-	-	-	4
R4A	R4A1	SIDEROAD ALL	PRESENCE	-	-	-	8

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6 (NB)	R	ø 6 R	R
	Y	ø 6 Y	
	G	ø 6 G	
1 (NBLT)	R	ø 6 R	R
	Y	ø 6 Y	
	G	ø 6 G	
	<- Y	ø 1 Y	
	<- G	ø 1 G	
8A, 8B (EB)	R	ø 8 R	Y
	Y	ø 8 Y	
	G	ø 8 G	
2 (SB)	R	ø 2 R	R
	Y	ø 2 Y	
	G	ø 2 G	
5 (SBLT)	R	ø 2 R	R
	Y	ø 2 Y	
	G	ø 2 G	
	<- Y	ø 5 Y	
	<- G	ø 5 G	
6H (NB)	R	ø 6 R	R
	Y	ø 6 Y	
	G	ø 6 G	
LS = LOAD SWITCH			

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
7 (WBLT)	R	ø 4 R	Y
	Y	ø 4 Y	
	G	ø 4 G	
	<- Y	ø 7 Y	
	<- G	ø 7 G	
4 (WB)	R	ø 4 R	Y
	Y	ø 4 Y	
	G	ø 4 G	
2H (SB)	R	ø 2 R	R
	Y	ø 2 Y	
	G	ø 2 G	
PEDESTRIAN MOVEMENTS			
W6, W7 PED A	W	LS 9 ø 6 G	OUT
	DW	LS 9 ø 6 R	
W4H, W11 PED B	W	LS 10 ø 2 G	OUT
	DW	LS 10 ø 2 R	
W12, W13 PED C	W	LS 11 ø 4 G	OUT
	DW	LS 11 ø 4 R	
W14, W5 PED D	W	LS 11 ø 4 G	OUT
	DW	LS 11 ø 4 R	
W10, W3H PED E	W	LS 12 ø 8 G	OUT
	DW	LS 12 ø 8 R	
W8, W9 PED F	W	LS 12 ø 8 G	OUT
	DW	LS 12 ø 8 R	



CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL WIRING
SYCAMORE LINE AT CLEVELAND ROAD

ERI-250-0.00

431
677

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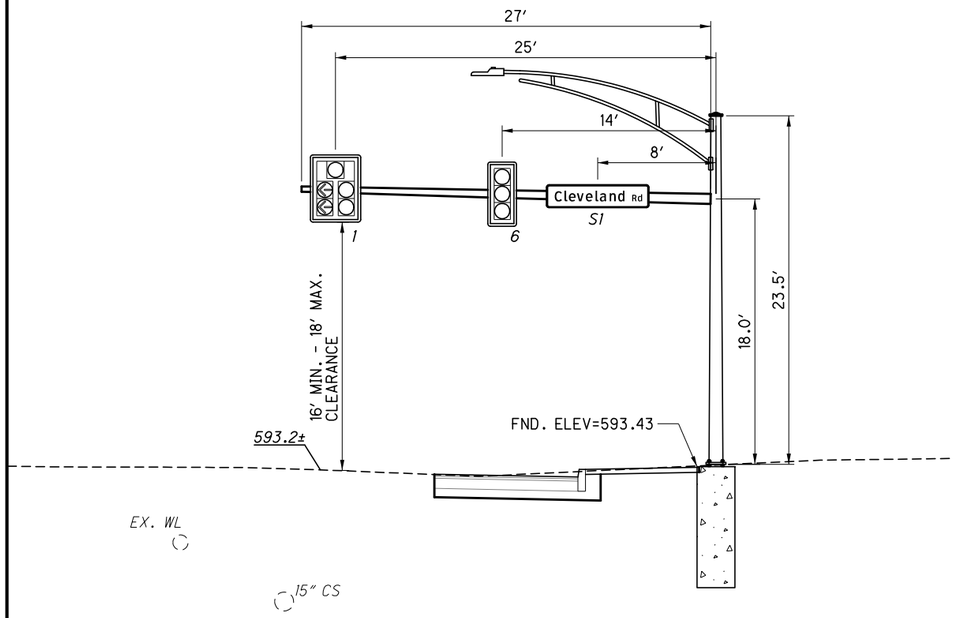
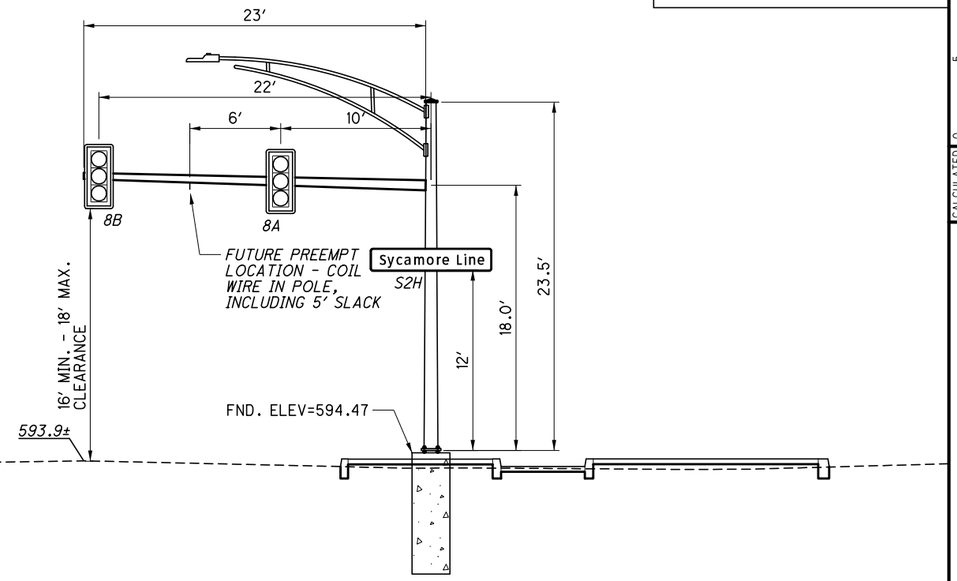
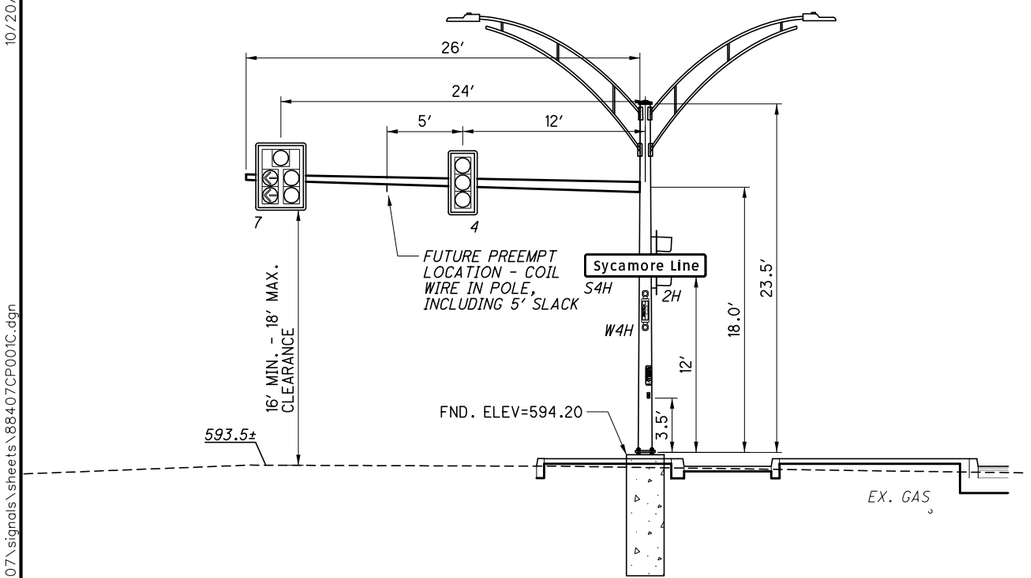


Comb. Signal Support M1 (Northbound)

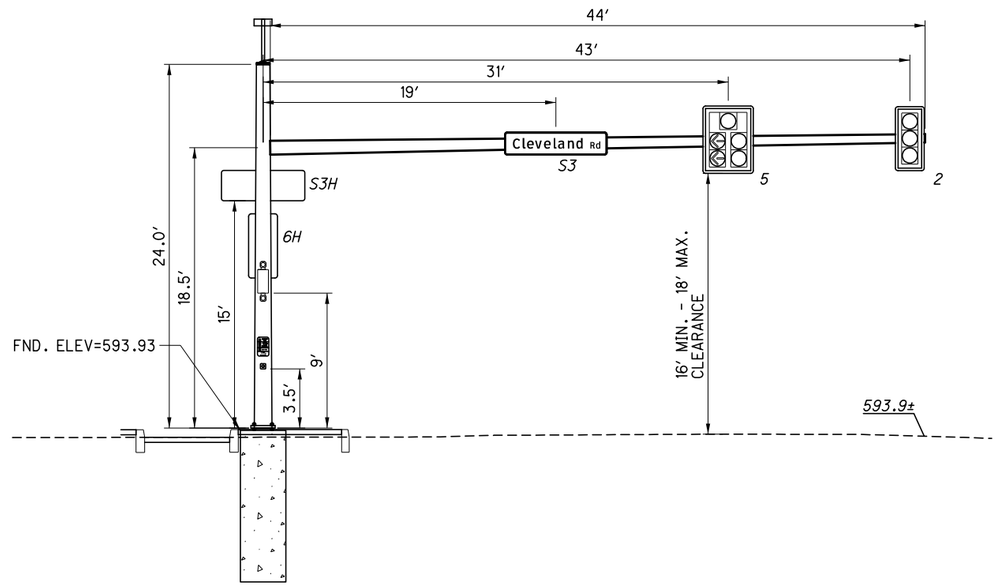


Comb. Signal Support M2 (Eastbound)

Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.



Comb. Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET
0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
SYCAMORE LINE AT CLEVELAND ROAD

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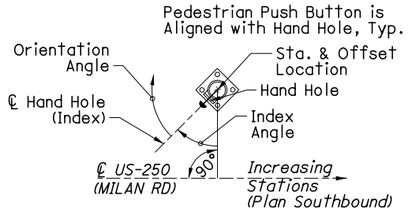
PEDESTAL ORIENTATION



Notes:

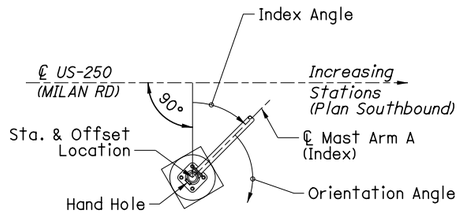
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	8+86.5	-24.5	LT	593.23	8	90	0	270	0	-
T6	0+02.3	-40.8	LT	594.06	8	40	0	234	0	-
T7	0+57.7	-34.5	LT	593.83	8	5	0	88	0	-
T8	0+74.8	-32.8	LT	594.03	8	154	0	87	0	-
T9	1+12.8	-52.2	LT	594.07	8	152	0	271	0	-
T10	0+46.2	24.2	RT	593.66	8	88	0	288	0	-
T11	9+35.9	43.2	RT	593.59	8	216	0	73	0	-
T12	8+36.4	50.0	RT	592.82	8	148	0	268	0	-
T13	8+75.5	28.7	RT	594.04	8	154	0	90	0	-
T14	8+86.5	23.2	RT	594.40	8	90	0	270	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk. This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	8+96.5	30.6	LT	2	23.5	18.0	0	-	-	-	-	15	0	-	-	180	-
M2	0+62.7	38.0	LT	1	23.5	18.0	128	-	-	-	-	15	0	-	-	180	270
M3	0+65.8	27.1	LT	11	24.0	18.5	0	-	270	90	90	15	270	-	-	180	270
M4	8+83.5	34.0	RT	2	23.5	18.0	126	-	180	270	234	15	135	15	315	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
SYCAMORE LINE AT CLEVELAND ROAD

ERI-250-0.00

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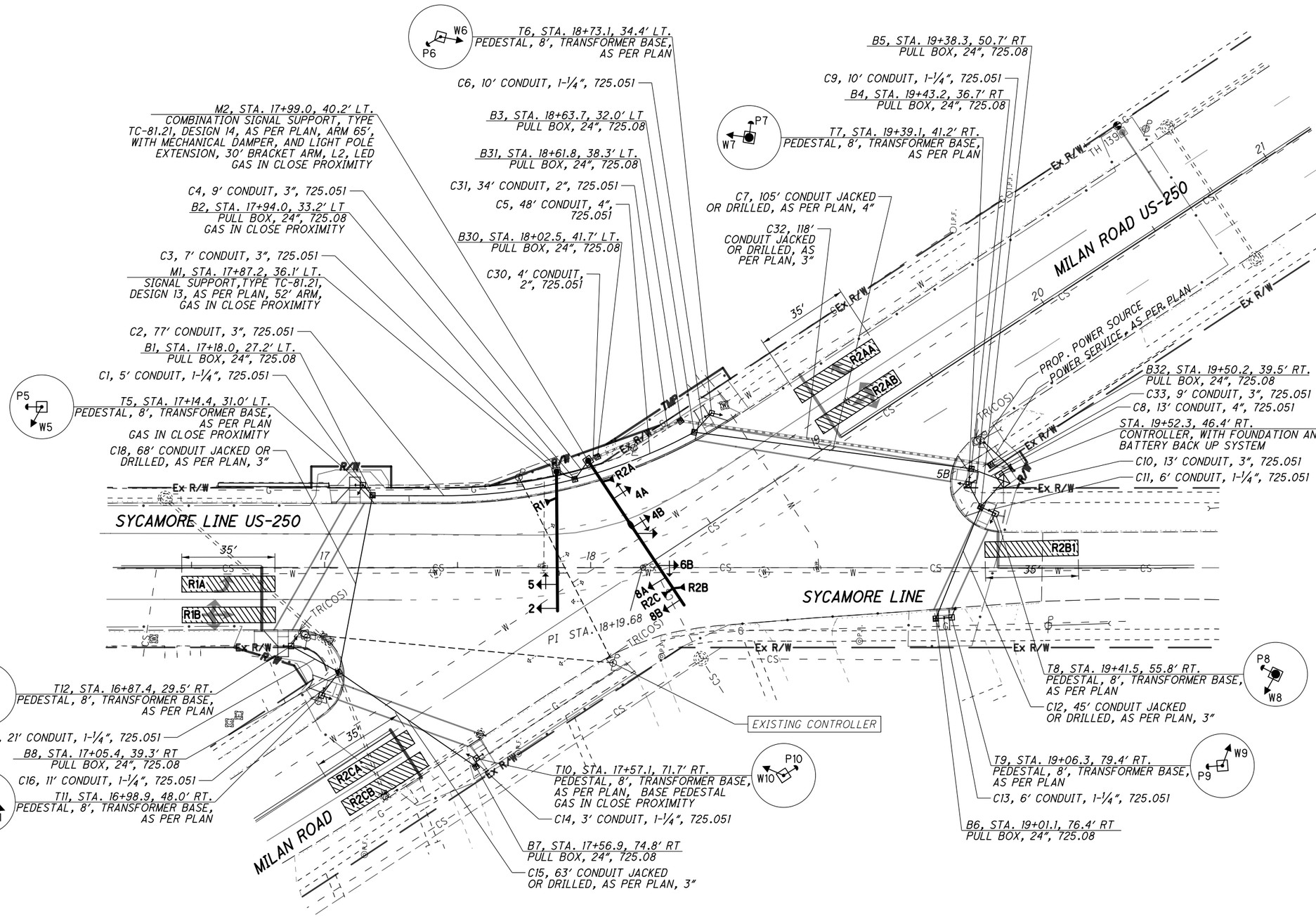
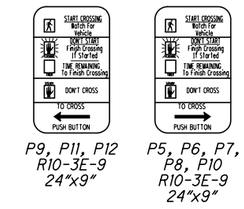
EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED LMZ
CHECKED GAB



SIGNS

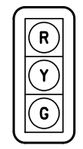


P9, P11, P12
R10-3E-9
24"x9"

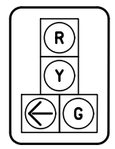
P5, P6, P7, P8, P10
R10-3E-9
24"x9"

SIGNAL HEADS

USE OPEN BOTTOM TUNNEL VISORS FOR ALL SIGNAL HEADS

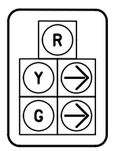


2, 6A, 8A, 8B



5, 4B, 6B

W5-W12



4A

NOTE:

FOR ROADWAY PLANS SEE SHEET - 136
FOR PAVEMENT MARKING PLANS SEE SHEET - 365
FOR SIGNING PLANS SEE SHEET - 388

TRAFFIC SIGNAL PLAN
US-250, SYCAMORE LINE AT MILAN ROAD
ERI-250-0.00

434
677

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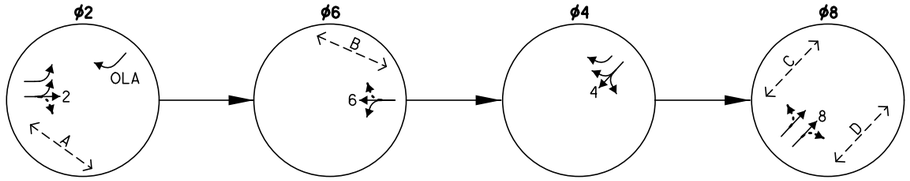

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

ϕ2 IS PLAN SOUTHBOUND,
(SYCAMORE LINE RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 - SYCAMORE LINE AT MILAN AVE.
MAINTAINING AGENCY: CITY OF SANDUSKY

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 5
COLOR DISPLAYED: GREEN

DUAL ENTRY: NA
REST IN RED: NA
OVERLAP: A - - -
PHASES: 5 - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	-	15.0	-	10.0	15.0	15.0	-	10.0
PASSAGE (PRESET GAP)	(SEC)	-	4.0	-	4.0	4.0	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.		-	-	-	-	-	-	-	-
MAXIMUM INITIAL	(SEC)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	(SEC)	-	-	-	-	-	-	-	-
MINIMUM GAP	(SEC)	-	-	-	-	-	-	-	-
TIME TO REDUCE	(SEC)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	(SEC)	-	30.0	-	30.0	30.0	30.0	-	30.0
MAXIMUM GREEN II	(SEC)	-	30.0	-	30.0	30.0	30.0	-	30.0
YELLOW CHANGE	(SEC)	-	3.6	-	3.6	3.6	3.6	-	3.6
ALL RED CLEARANCE	(SEC)	-	3.6	-	3.4	3.6	3.6	-	3.5
WALK	(SEC)	-	6.0	-	-	-	7.0	-	6.0
PEDESTRIAN CLEARANCE	(SEC)	-	15.4	-	-	-	26.7	-	15.7
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			SYCAMORE LINE	
625	220	FT	4" CONDUIT, TYPE E	
625	1	EACH	CONNECTOR KIT, TYPE II	
625	1	EACH	CONNECTOR KIT, TYPE III	
625	1	EACH	BRACKET ARM, 30', AS PER PLAN	
625	606	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	189	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	72	FT	CONDUIT, 1-1/4", 725.051	
625	38	FT	CONDUIT, 2", 725.051	
625	115	FT	CONDUIT, 3", 725.051	
625	61	FT	CONDUIT, 4", 725.051	
625	294	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	105	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 4"	
625	1	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	286	FT	TRENCH	
625	11	EACH	PULL BOX, 725.08, 24"	
625	14	EACH	GROUND ROD	
625	286	FT	PLASTIC CAUTION TAPE	
632	4	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	3	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 4 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN	
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	5	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	2672	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	1056	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	2	EACH	SIGNAL SUPPORT FOUNDATION	
632	8	EACH	PEDESTAL FOUNDATION	
632	1827	FT	LOOP DETECTOR LEAD-IN CABLE	
632	50	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MECHANICAL DAMPER FOR C-81.21 MAST ARM (GREATER THAN 56' IN LENGTH)	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN, SANDUSKY	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 14, AS PER PLAN	
632	8	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	547	FT	PREEMPTION DETECTOR CABLE	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			", SANDUSKY" INDICATED ON SOME ITEMS FOR AASHTOWARE GENSUM PURPOSES ONLY	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250, SYCAMORE LINE AT MILAN ROAD

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL		7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES	PR — PREEMPTION CABLE (FUTURE USE)	L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	V1A — *VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	V1B — *VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

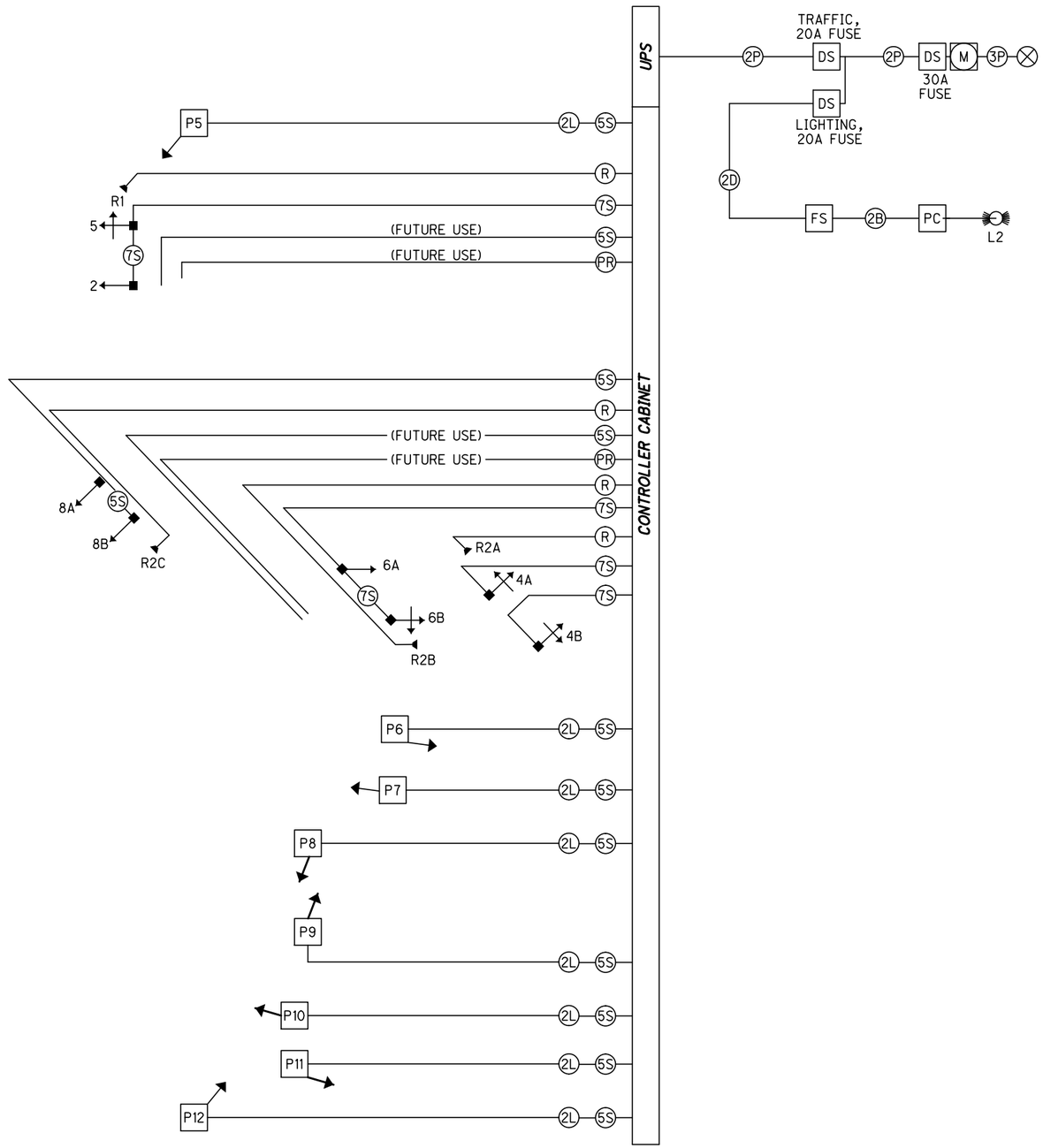
RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
R1	A	LEFT	PRESENCE	-	-	-	2
R1	B	LT-THRU-RT	PRESENCE	-	-	-	2
R2B	R2B1	LT-THRU-RT	PRESENCE	-	-	-	6
R2A	R2AA	SIDEROAD RT	PRESENCE	-	-	-	4
R2A	R2AB	SIDEROAD ALL	PRESENCE	-	-	-	4
R2C	R2CA	SIDEROAD THRU-LT	PRESENCE	-	-	-	8
R2C	R2CB	SIDEROAD THRU-RT	PRESENCE	-	-	-	8

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
5 (SBLT)	R	ϕ 2 R	R
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	<- G	ϕ 5 G	
2 (SB)	R	ϕ 2 R	R
	Y	ϕ 2 Y	
	G	ϕ 2 G	
4A (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
	Y ->	LS 12 G	
	G ->	LS 12 Y	
4B (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
	<- G	ϕ 4 G	
6A (NB)	R	ϕ 6 R	R
	Y	ϕ 6 Y	
	G	ϕ 6 G	
6B (NB)	R	ϕ 6 R	R
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- G	ϕ 6 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W10, W11 PED A	W	LS 9 ϕ 2 G	OUT
	DW	LS 9 ϕ 2 R	
W6, W7 PED B	W	LS 10 ϕ 6 G	OUT
	DW	LS 10 ϕ 6 R	
W5, W12 PED C	W	LS 11 ϕ 8 G	OUT
	DW	LS 11 ϕ 8 R	
W8, W9 PED D	W	LS 11 ϕ 8 G	OUT
	DW	LS 11 ϕ 8 R	
OVERLAPS			
4A OLA	Y ->	LS 12 G	OUT
	G ->	LS 12 Y	

LS = LOAD SWITCH



CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250, SYCAMORE LINE AT MILAN ROAD

ERI-250-0.00

436
677

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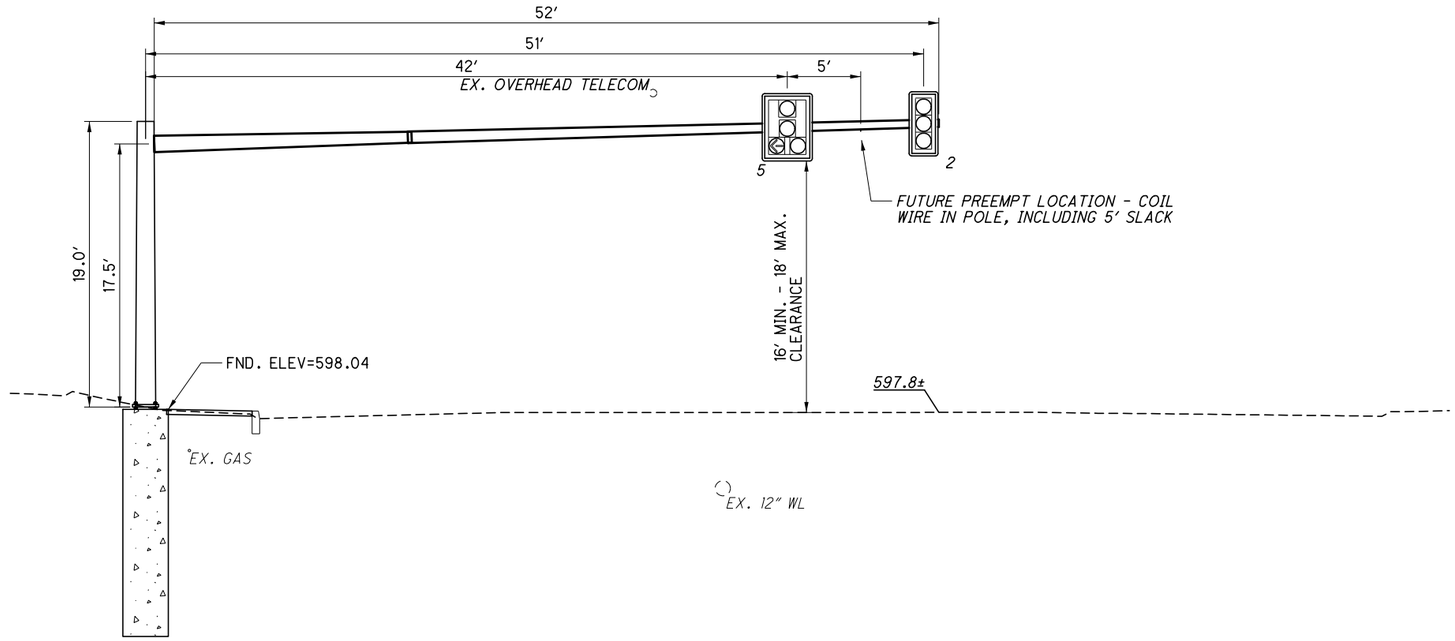
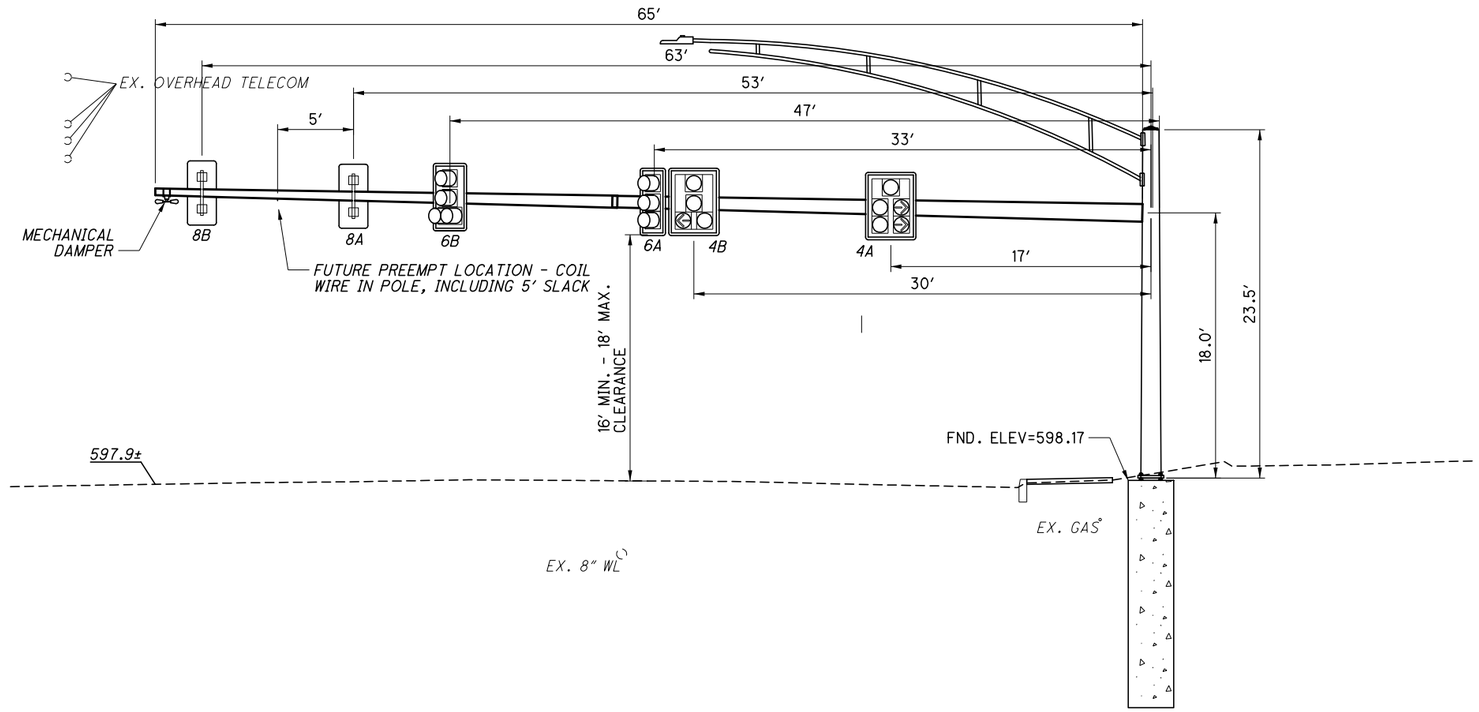
Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.



Signal Support M1 (Southbound)



Comb. Signal Support M2 (Northbound)

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
SYCAMORE LINE AT US-250 (MILAN ROAD)

ERI-250-0.00

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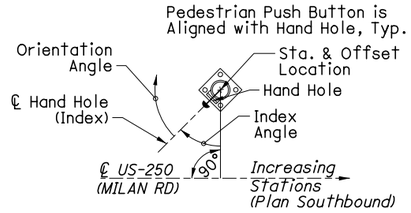
PEDESTAL ORIENTATION



Notes:

1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

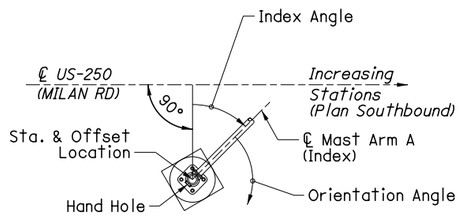
POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	17+14.4	-31.0	LT	597.12	8	90	0	299	0	-
T6	18+73.1	-34.4	LT	599.06	8	93	0	221	0	-
T7	19+39.1	41.2	RT	599.20	8	41	0	270	0	-
T8	19+41.5	55.8	RT	599.60	8	331	0	271	0	-
T9	19+06.3	79.4	RT	598.97	8	299	0	115	0	-
T10	17+57.1	71.7	RT	597.48	8	58	0	236	0	-
T11	16+98.9	48.0	RT	597.10	8	20	0	91	0	-
T12	16+87.4	29.5	RT	596.70	8	270	0	124	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A								
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG
M1	17+87.2	36.1	LT	13	19.0	17.5	0	-	-	-	-	-	-	-	-	180
M2	17+99.0	40.2	LT	14	23.5	18.0	326	-	-	-	-	30	0	-	-	180

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
SYCAMORE LINE AT US-250 (MILAN ROAD)

ERI-250-0.00

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PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

T5, STA. 123+81.0, 51.9' LT.
BREAKAWAY TRANSFORMER BASE
PEDESTAL (GAS IN CLOSE PROXIMITY)

C31, 122' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

C2, 10', CONDUIT, 1-1/4", 725.051

B1, STA. 123+71.9, 47.1' LT
PULL BOX, 24", 725.08

B30, STA. 123+68.8, 49.8' LT.
PULL BOX, 24", 725.08

C30, 9' CONDUIT, 2", 725.051

C1, 11', CONDUIT, 3", 725.051

M1, STA. 123+61.4, 45.6' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 12, AS PER PLAN, ARM 47' WITH LIGHT POLE EXTENSION, L1, 15' BRACKET ARM, LED

C32, 7' CONDUIT, 2", 725.051

B31, STA. 124+90.5, 42.6' LT.
PULL BOX, 24", 725.08

SANDUSKY MALL NORTH

M2, STA. 124+93.6, 48.5' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 13, AS PER PLAN, ARM 57', WITH LIGHT POLE EXTENSION, L2, 20' BRACKET ARM, LED

C3, 3', CONDUIT, 3", 725.051

B2, STA. 124+96.8', 47.2' LT
PULL BOX, 24", 725.08

C4, 6', CONDUIT, 1-1/4", 725.051

T6, STA. 125+02.6, 46.2' LT.
BREAKAWAY TRANSFORMER BASE
PEDESTAL

C5, 99', CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

MILAN ROAD

POWER SERVICE, AS PER PLAN

PROP. POWER SOURCE

C13, 101' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

T8, STA. 123+67.7, 44.2' RT
BREAKAWAY TRANSFORMER BASE
PEDESTAL

C12, 14' CONDUIT, 1-1/4", 725.051

C35, 107' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

B33, STA. 123+75.2, 57.0' RT.
PULL BOX, 24", 725.08

B5, STA. 123+78.0, 54.0' RT
PULL BOX, 24", 725.08

C11, 6' CONDUIT, 3", 725.051

M4, STA. 123+82.6, 49.9' RT.
SIGNAL SUPPORT, TYPE TC-81.21
DESIGN 11, AS PER PLAN, ARM 43'

C10, 109' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

T7, STA. 124+79.9, 51.6' RT
BREAKAWAY TRANSFORMER BASE
PEDESTAL

STA. 125+08.5, 48.0' RT
CONTROLLER, FOUNDATION AND
BATTERY BACK UP SYSTEM

C6, 22', CONDUIT, 3", 725.051

C9, 25', CONDUIT, 3", 725.051

M3, STA. 124+92.6, 45.8' RT.
SIGNAL SUPPORT, TYPE TC-81.21
DESIGN 3, AS PER PLAN, ARM 38'

C33, 11' CONDUIT, 3", 725.051

C7, 7' CONDUIT, 3", 725.051

B32, STA. 124+94.1, 57.0' RT.
PULL BOX, 24", 725.08

B3, STA. 124+88.9, 51.1' RT
PULL BOX, 24", 725.08

EXISTING CONTROLLER

B4, STA. 124+87.1, 54.0' RT
PULL BOX, 24", 725.08

C8, 9' CONDUIT, 1-1/4", 725.051

C34, 119' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

SIGNS

Mall Blvd → S1 D3-1 72" x 18"

← Mall Blvd S3 D3-1 72" x 18"

Milan Rd S2, S4 D3-1 54" x 18"

SIGNAL HEADS

W1H-W4H W5-W8

2, 4A, 4B, 6A, 6B, 8A, 8B

1, 5

P1H, P2H R10-3E-9 24"x9"

P5, P6, P3H, P7, P4H, P8 R10-3E-9 24"x9"

USE CUT AWAY VISORS

NOTE:

FOR ROADWAY PLANS SEE SHEET - 145, 146
FOR PAVEMENT MARKING PLANS SEE SHEET - 369
FOR SIGNING PLANS SEE SHEET - 392
FOR OVERHEAD SIGNS SEE SHEET - 412

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT NORTH MALL DRIVE

ERI-250-0.00

439
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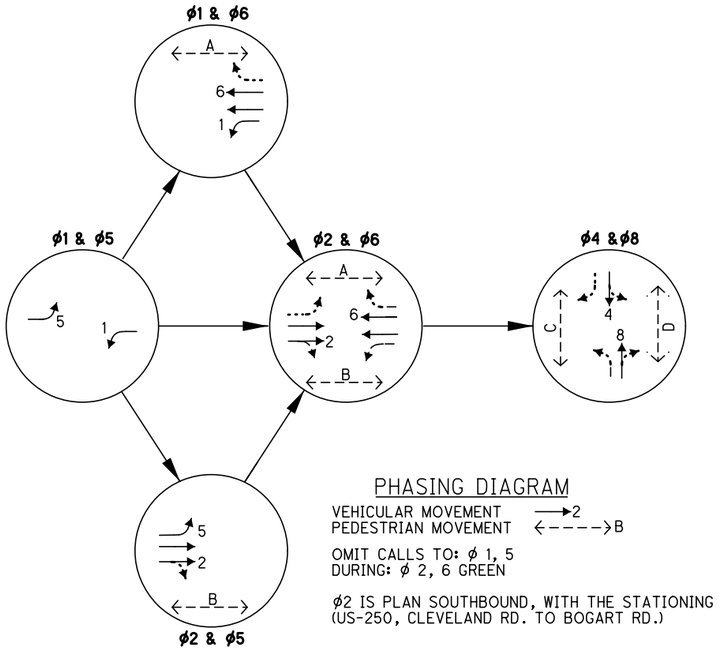

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1, 5
DURING: ϕ 2, 6 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND NORTH MALL DR.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	20.0	-	10.0	7.0	20.0	-	10.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	3.0	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	15.0	60.0	-	25.0	15.0	60.0	-	25.0
MAXIMUM GREEN II	(SEC)	15.0	60.0	-	25.0	15.0	60.0	-	25.0
YELLOW CHANGE	(SEC)	3.9	3.9	-	3.0	3.9	3.9	-	3.0
ALL RED CLEARANCE	(SEC)	2.0	2.1	-	2.9	2.1	2.0	-	2.9
WALK	(SEC)	-	7.0	-	7.0	-	7.0	-	7.0
PEDESTRIAN CLEARANCE	(SEC)	-	25.7	-	20.9	-	29.0	-	20.9
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			NORTH MALL DRIVE	
625	180	FT	4" CONDUIT, TYPE E	
625	2	EACH	CONNECTOR KIT, TYPE II	
625	2	EACH	CONNECTOR KIT, TYPE III	
625	1	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1	EACH	BRACKET ARM, 20', AS PER PLAN	
625	2088	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	303	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	39	FT	CONDUIT, 1-1/4", 725.051	
625	16	FT	CONDUIT, 2", 725.051	
625	85	FT	CONDUIT, 3", 725.051	
625	657	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	2	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	140	FT	TRENCH	
625	9	EACH	PULL BOX, 725.08, 24"	
625	12	EACH	GROUND ROD	
625	140	FT	PLASTIC CAUTION TAPE	
632	7	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	1832	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	476	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	4	EACH	PEDESTAL FOUNDATION	
632	1362	FT	LOOP DETECTOR LEAD-IN CABLE	
632	62	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 3 (ALTERNATE BID)	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 11 (ALTERNATE BID)	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 12 (ALTERNATE BID)	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 13 (ALTERNATE BID)	
632	4	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	4	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT NORTH MALL DRIVE

ERI-250.0.00

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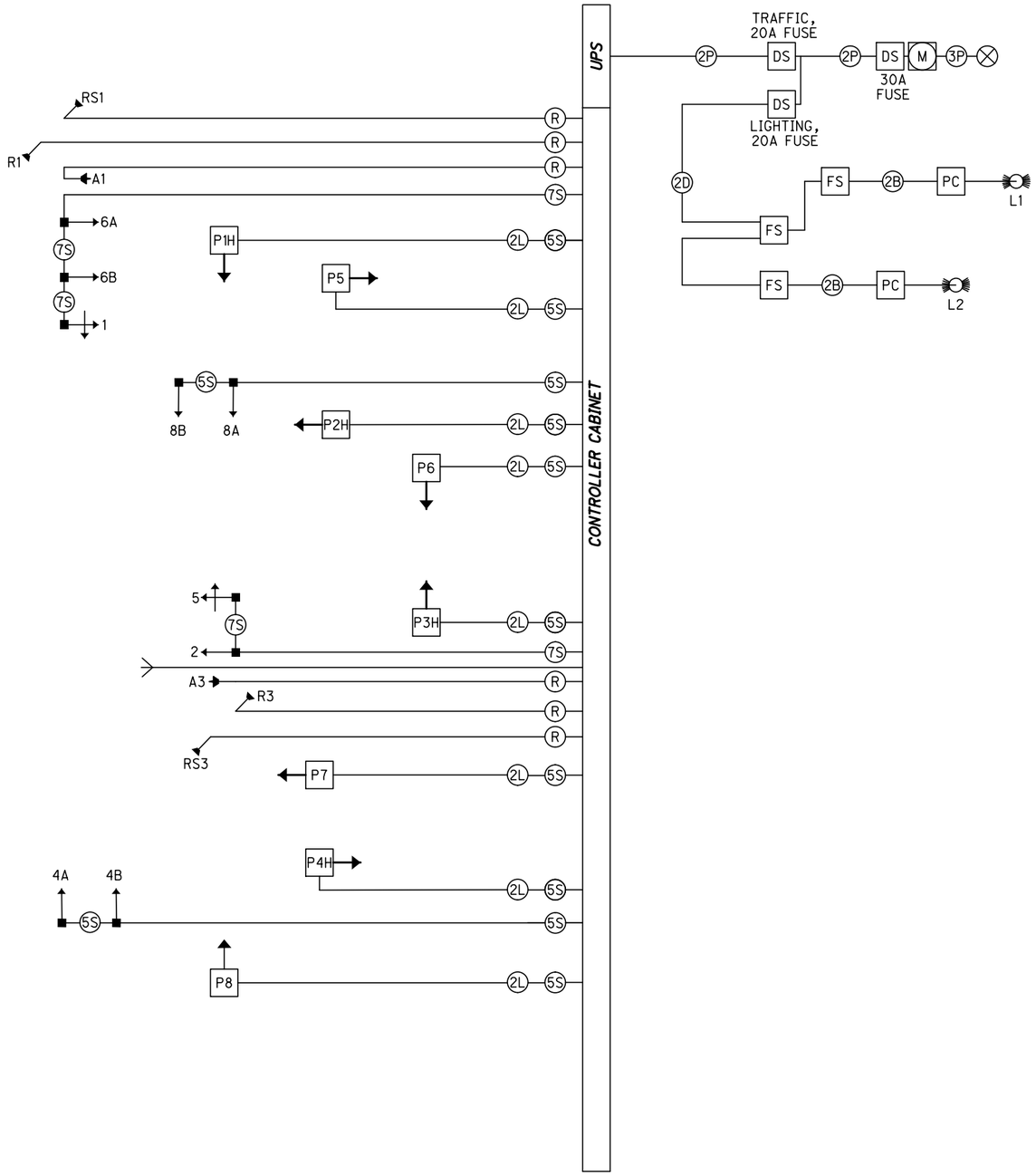
DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*



RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	A, B	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	A, B	SIDEROAD ALL	PRESENCE	-	-	-	4
RS3	A, B	SIDEROAD ALL	PRESENCE	-	-	-	8

** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
				PEDESTRIAN MOVEMENTS			
6A, 6B (NB)	R	ø 6 R	Y	W5, W2H PED A	W	LS 9 ø 6 G	OUT
	Y	ø 6 Y			DW	LS 9 ø 6 R	
	G	ø 6 G		W4H, W7 PED B	W	LS 10 ø 2 G	OUT
1 (NBLT)	R	ø 6 R	Y		DW	LS 10 ø 2 R	
	Y	ø 6 Y		W1H, W8 PED C	W	LS 11 ø 8 G	OUT
	G	ø 6 G			DW	LS 11 ø 8 R	
	<- Y	ø 1 Y		W3H, W6 PED D	W	LS 12 ø 4 G	OUT
	<- G	ø 1 G			DW	LS 12 ø 4 R	
8A, 8B (EB)	R	ø 8 R	R				
	Y	ø 8 Y					
	G	ø 8 G					
2 (SB)	R	ø 2 R	Y				
	Y	ø 2 Y					
	G	ø 2 G					
5 (SBLT)	R	ø 2 R	Y				
	Y	ø 2 Y					
	G	ø 2 G					
	<- Y	ø 5 Y					
	<- G	ø 5 G					
4 (WB)	R	ø 4 R	R				
	Y	ø 4 Y					
	G	ø 4 G					

LS = LOAD SWITCH

CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250 (MILAN ROAD) AT NORTH MALL DRIVE

ERI-250-0.00

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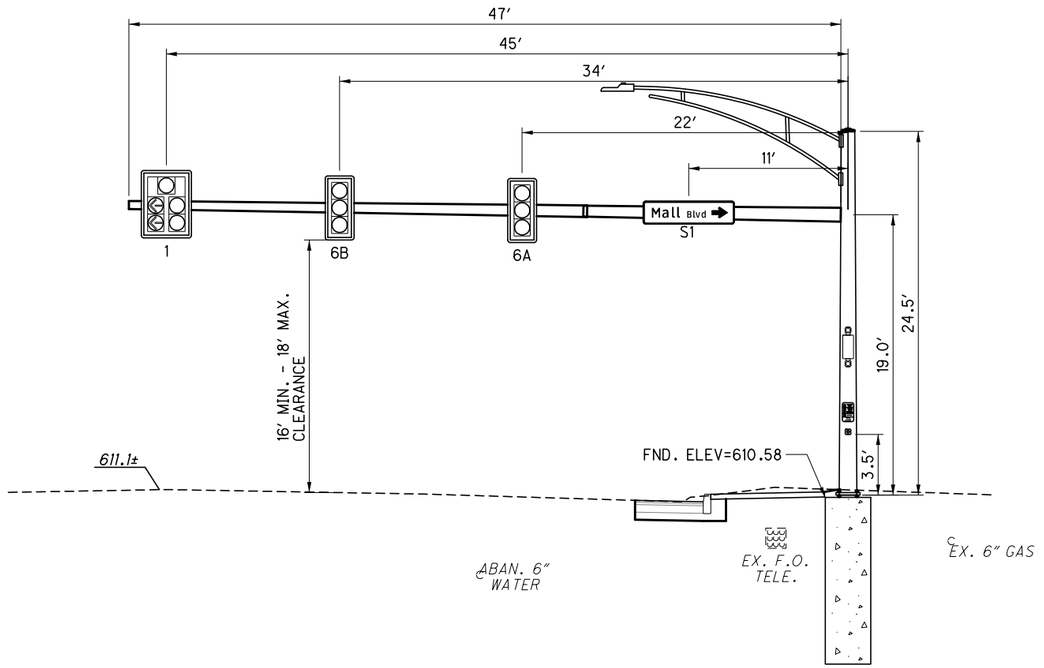
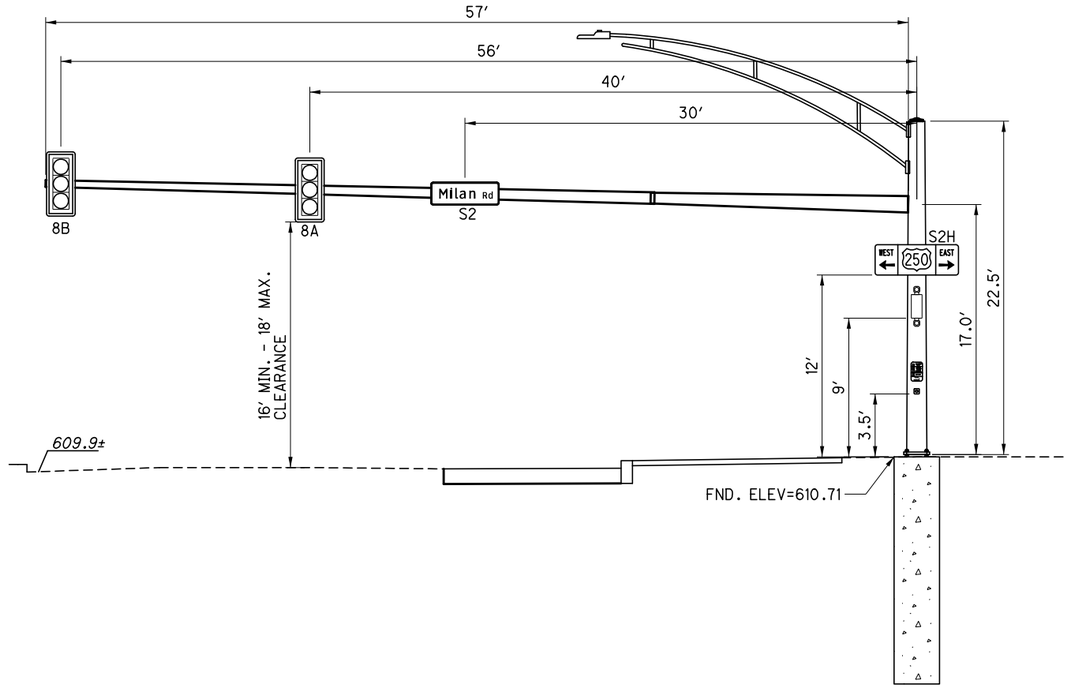
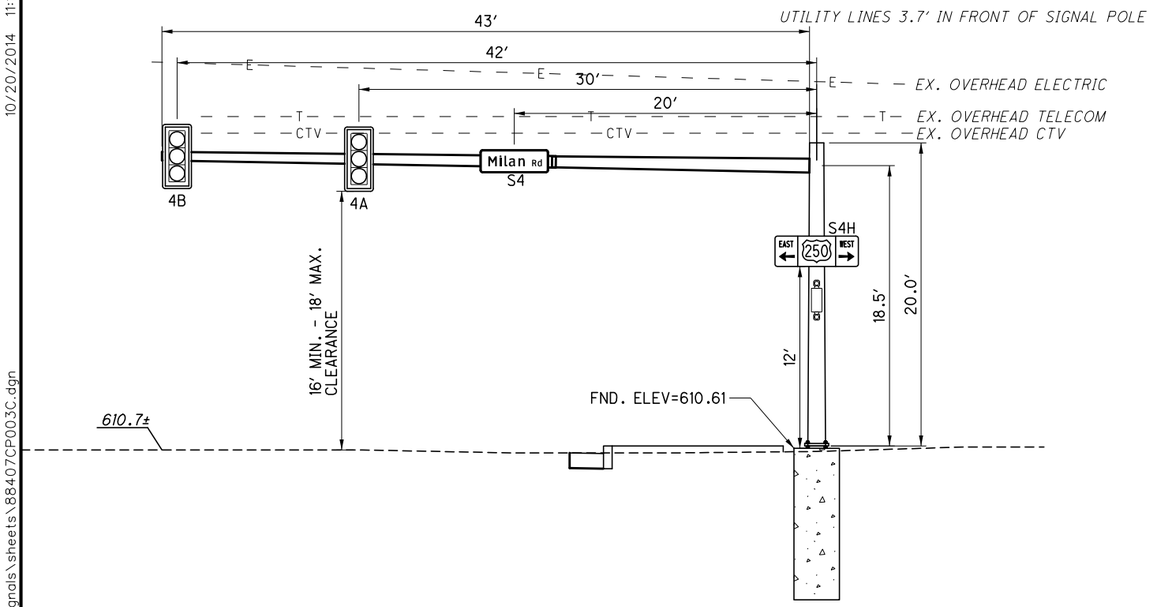


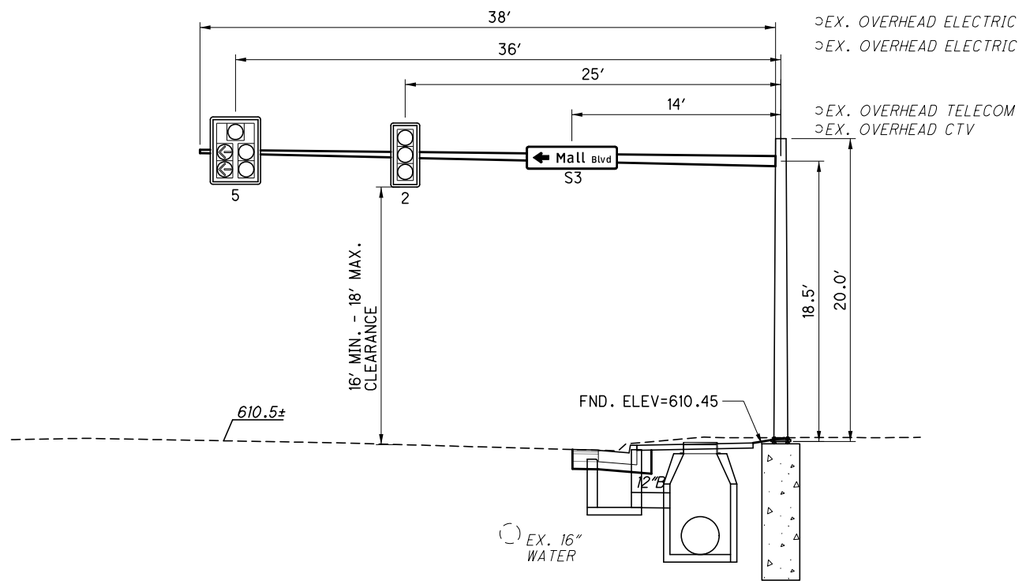
Comb. Signal Support M1 (Northbound)



Comb. Signal Support M2 (Eastbound)



Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT NORTH MALL DRIVE

ERI-250-0.00

442
677

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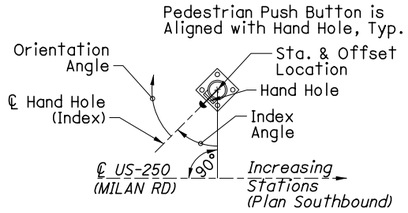
PEDESTAL ORIENTATION



Notes:

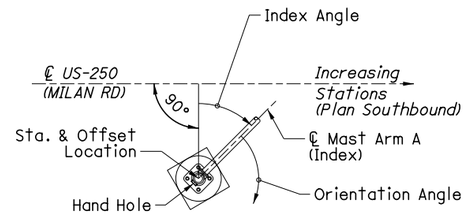
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	123+81.0	-51.9	LT	610.35	8	62	0	208	0	-
T6	125+02.6	-46.2	LT	610.66	8	101	0	260	0	-
T7	124+79.9	51.6	RT	610.48	8	55	0	213	0	-
T8	123+67.7	44.2	RT	610.57	8	101	0	254	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk. This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	123+61.4	45.6	LT	12	24.5	19.0	0	-	-	270	260	15	0	-	-	180	-
M2	124+93.6	48.5	LT	13	22.5	17.0	90	-	-	270	270	20	0	-	-	180	270
M3	124+92.6	45.8	RT	4	20.0	18.5	0	-	-	90	74	-	-	-	-	180	-
M4	123+82.6	49.9	RT	11	20.0	18.5	90	-	-	270	35	-	-	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT NORTH MALL DRIVE

ERI-250-0.00

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PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

T5, STA. 132+42.9, 51.9' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C30, 112' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C3, 121' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C2, 10' CONDUIT, 1-¼", 725.051
B31, STA. 133+36.2, 52.0' LT
PULL BOX, 24", 725.08
B1, STA. 132+34.0,.47.2' LT
PULL BOX, 24", 725.08
C31, 15' CONDUIT, 2", 725.051
C1, 4' CONDUIT, 3", 725.051
M2, STA. 133+50.9, 50.0' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 43' WITH LIGHT POLE EXTENSION, L2, 15' BRACKET ARM, LED
M1, STA. 132+29.9, 46.5' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 12, AS PER PLAN, ARM 47' WITH LIGHT POLE EXTENSION, L1, 15' BRACKET ARM, LED
C4, 4' CONDUIT, 3", 725.051
B2, STA. 133+54.6, 48.2' LT
PULL BOX, 24", 725.08
C34, 7' CONDUIT, 2", 725.051
B30, STA. 132+23.8, 49.2' LT
PULL BOX, 24", 725.08
C5, 4' CONDUIT, 1-¼", 725.051
C33, 96' CONDUIT,JACKED OR DRILLED, AS PER PLAN, 3"
T6, STA. 133+58.6, 47.2' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
4" TELEPHONE IN CLOSE PROXIMITY
B32, STA. 132+27.6, 46.5' RT.
PULL BOX, 24", 725.08

SOUTH MALL DRIVE
MILAN ROAD
EXISTING CONTROLLER
POWER SERVICE, AS PER PLAN
PROP. POWER SOURCE

T8, STA. 132+35.3, 45.3' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
18" STORM IN CLOSE PROXIMITY
C32, 10' CONDUIT, 3", 725.051
C12, 8' CONDUIT, 1-¼", 725.051
STA. 132+34.1, 53.1' RT.
CONTROLLER, FOUNDATION AND BATTERY BACK UP SYSTEM
C11, 10' CONDUIT, 3", 725.051
B5, STA. 132+42.9, 46.0' RT
PULL BOX, 24", 725.08
C10, 10' CONDUIT, 3", 725.051
B4, STA. 132+44.0, 58.1' RT
PULL BOX, 24", 725.08
C9, 4' CONDUIT, 3", 725.051
M4, STA. 132+47.7, 56.0' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 2, AS PER PLAN, ARM 32'

M3, STA. 133+61.1, 44.6' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 3, AS PER PLAN, ARM 37'
C6, 19' CONDUIT, 3", 725.051
B3, STA. 133+47.4, 58.5' RT
PULL BOX, 24", 725.08
C7, 5' CONDUIT, 1-¼", 725.051
T7, STA. 133+43.1, 55.5' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C8, 103' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"
C13, 94' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

SIGNS

Milan Rd
S2, S4
D3-1
54" x 18"

S. Mall Blvd
S1
D3-1
84" x 18"

S. Mall Blvd
S3
D3-1
84" x 18"

SIGNAL HEADS

W1H–W4H
W5–W8
2, 4A, 4B, 6A, 6B, 8A, 8B
1, 5
P6, P8, P4H, P3H
R10-3E-9
24"x9"
P5, P7, P2H, P1H
R10-3E-9
24"x9"

USE CUT AWAY VISORS

NOTE:

FOR ROADWAY PLANS SEE SHEET - 147
FOR PAVEMENT MARKING PLANS SEE SHEET - 370
FOR SIGNING PLANS SEE SHEET - 393
FOR OVERHEAD SIGNS SEE SHEET - 412

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT SOUTH MALL DRIVE
ERI-250-0.00

444
677

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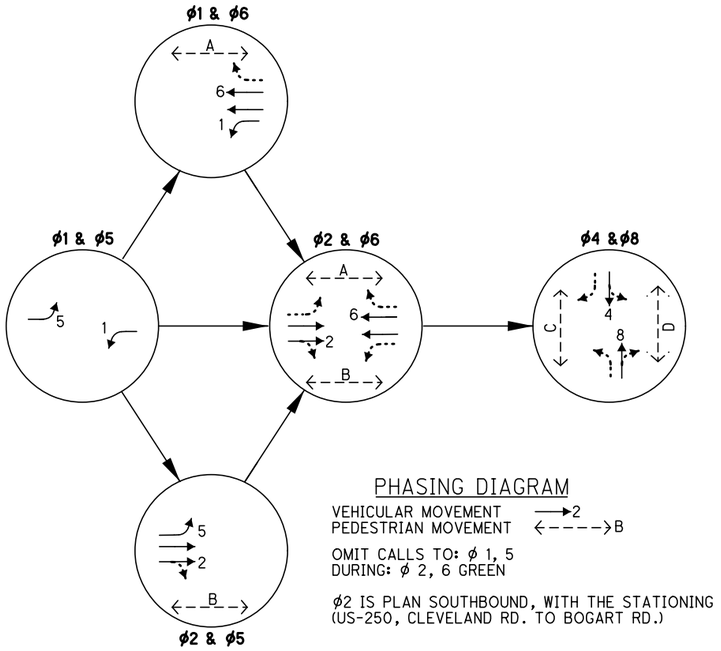

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1, 5
DURING: ϕ 2, 6 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND SOUTH MALL DR.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	20.0	-	10.0	7.0	20.0	-	10.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	3.0	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	15.0	60.0	-	25.0	15.0	60.0	-	20.0
MAXIMUM GREEN II	(SEC)	15.0	60.0	-	25.0	15.0	60.0	-	20.0
YELLOW CHANGE	(SEC)	3.9	3.9	-	3.0	3.9	3.9	-	3.0
ALL RED CLEARANCE	(SEC)	2.1	2.1	-	2.9	2.1	2.1	-	3.3
WALK	(SEC)	-	7.0	-	7.0	-	7.0	-	7.0
PEDESTRIAN CLEARANCE	(SEC)	-	23.4	-	21.1	-	28.7	-	20.6
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			SOUTH MALL DRIVE	
625	160	FT	4" CONDUIT, TYPE E	
625	2	EACH	CONNECTOR KIT, TYPE II	
625	2	EACH	CONNECTOR KIT, TYPE III	
625	2	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1245	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	291	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	27	FT	CONDUIT, 1-1/4", 725.051	
625	22	FT	CONDUIT, 2", 725.051	
625	61	FT	CONDUIT, 3", 725.051	
625	526	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	2	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	110	FT	TRENCH	
625	8	EACH	PULL BOX, 725.08, 24"	
625	12	EACH	GROUND ROD	
625	110	FT	PLASTIC CAUTION TAPE	
632	7	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	1659	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	440	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	4	EACH	PEDESTAL FOUNDATION	
632	1234	FT	LOOP DETECTOR LEAD-IN CABLE	
632	91	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 2 (ALTERNATE BID)*	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 3 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 11 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 12 (ALTERNATE BID)*	
632	4	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	4	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT SOUTH MALL DRIVE

ERI-250.0.00

10/20/2014 11:15:49 AM
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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	A, B	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	A, B	SIDEROAD ALL	PRESENCE	-	-	-	4
RS3	A, B	SIDEROAD ALL	PRESENCE	-	-	-	8

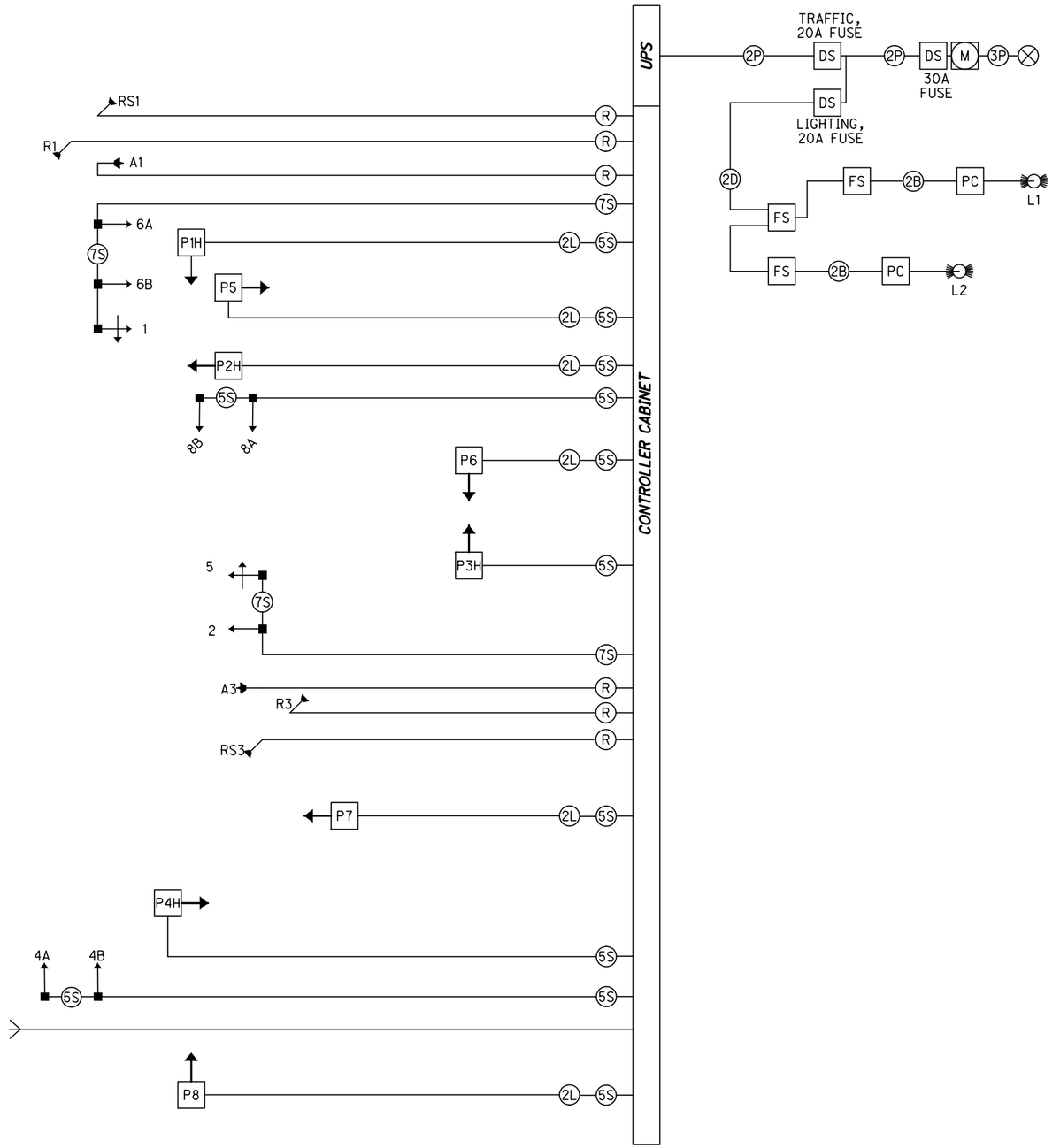
** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
1 (NBLT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- Y	ϕ 1 Y	
	<- G	ϕ 1 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
2 (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
5 (SBLT)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	<- Y	ϕ 5 Y	
	<- G	ϕ 5 G	
4A, 4B (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W5, W2H PED A	W	LS 9 ϕ 6 G	OUT
	DW	LS 9 ϕ 6 R	
W4H, W7 PED B	W	LS 10 ϕ 2 G	OUT
	DW	LS 10 ϕ 2 R	
W1H, W8 PED C	W	LS 11 ϕ 8 G	OUT
	DW	LS 11 ϕ 8 R	
W3H, W6 PED D	W	LS 12 ϕ 4 G	OUT
	DW	LS 12 ϕ 4 R	

LS = LOAD SWITCH



CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING US-250 (MILAN ROAD) AT SOUTH MALL DRIVE

ERI-250-0.00

446 677

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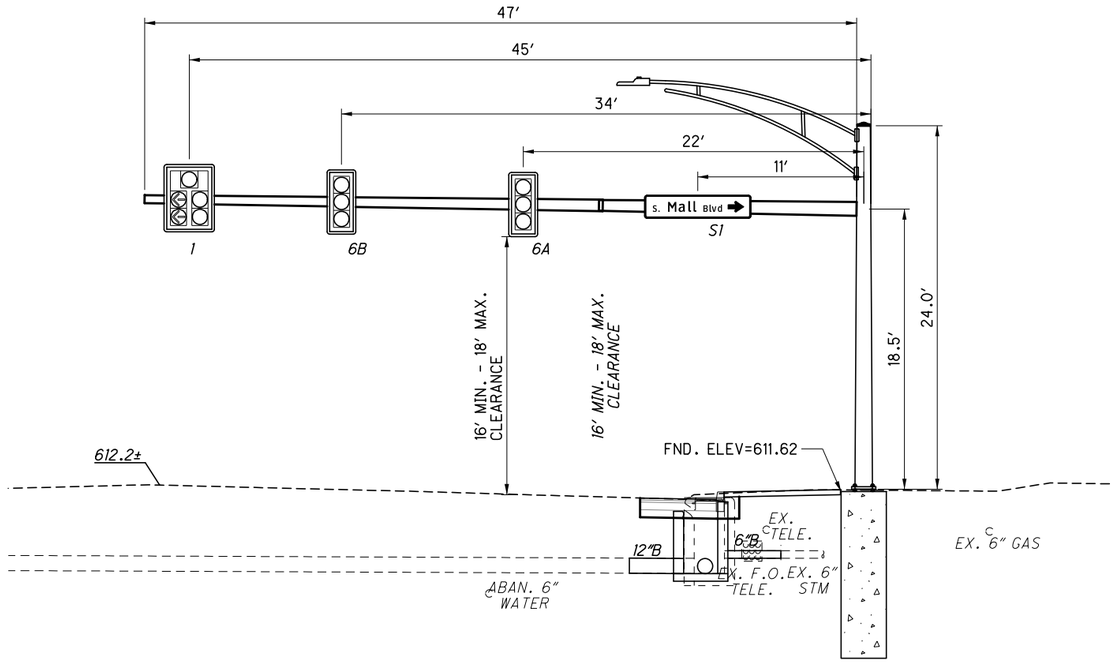
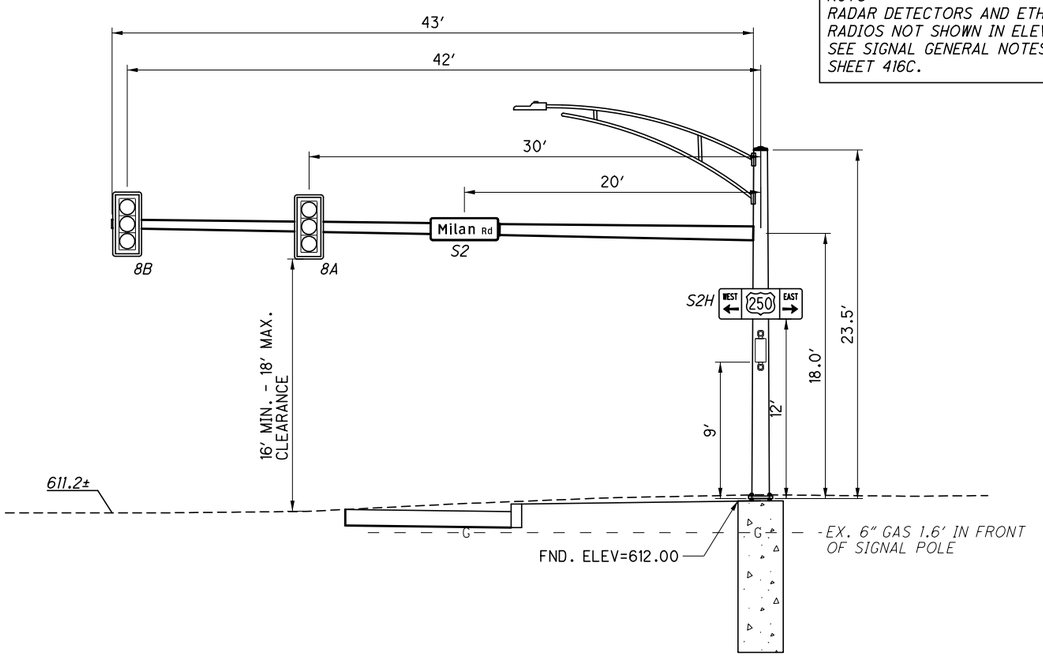
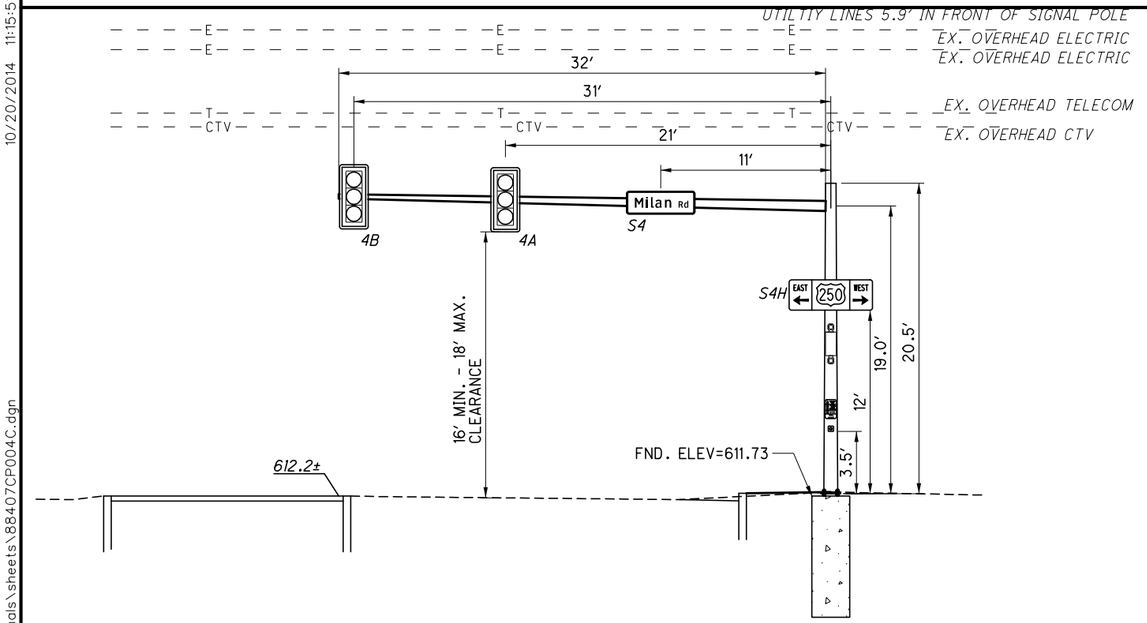


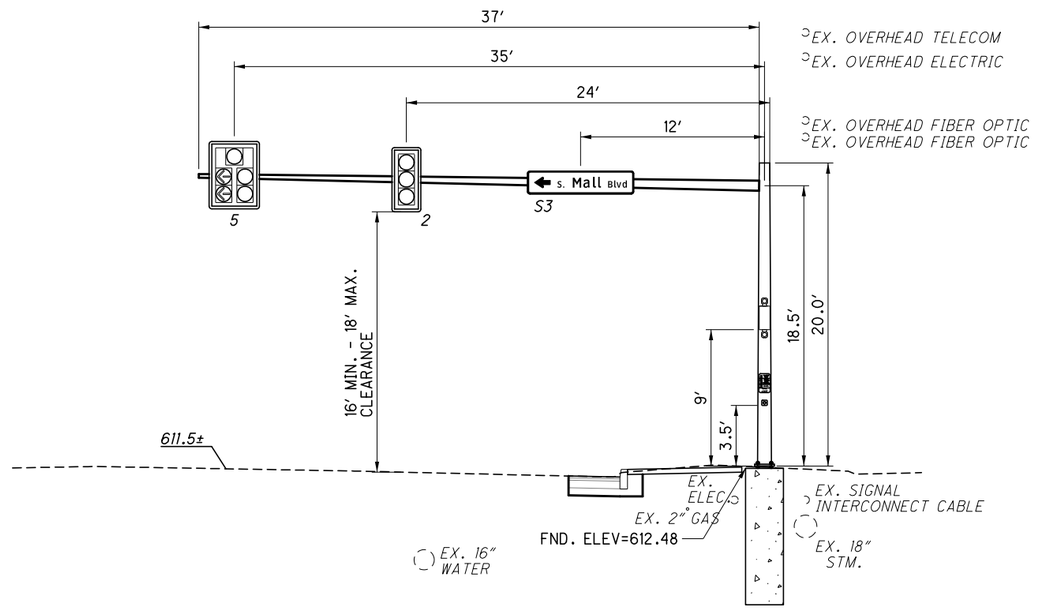
Comb. Signal Support M1 (Northbound)



Comb. Signal Support M2 (Eastbound)



Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT SOUTH MALL DRIVE

ERI-250-0.00

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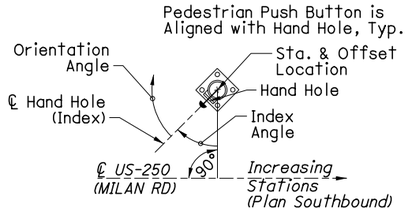
PEDESTAL ORIENTATION



Notes:

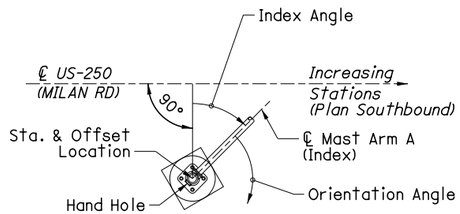
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	132+42.9	-51.9	LT	611.38	8	58	0	213	0	-
T6	133+58.6	-47.2	LT	612.17	8	280	0	83	0	-
T7	133+43.1	55.5	RT	611.77	8	1	0	270	0	-
T8	132+35.3	45.3	RT	611.48	8	280	0	75	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	132+29.9	46.5	LT	12	24.0	18.5	0	-	-	90	82	15	0	-	-	180	-
M2	133+50.9	50.0	LT	11	23.5	18.0	90	-	-	270	26	15	0	-	-	180	270
M3	133+61.1	44.6	RT	3	20.0	18.5	0	-	-	270	262	-	-	-	-	180	-
M4	132+47.7	56.0	RT	2	20.5	19.0	90	-	-	270	270	-	-	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT SOUTH MALL DRIVE

ERI-250-0.00

448
677

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 149, 249
FOR PAVEMENT MARKING PLANS SEE SHEET - 370
FOR SIGNING PLANS SEE SHEET - 393
FOR OVERHEAD SIGNS SEE SHEETS - 412 & 413

PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	CCTV IP-CAMERA SYSTEM	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED LMZ
CHECKED GAB

T5, STA. 139+15.3, 71.9' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C2, 45' CONDUIT, 1-¼", 725.051
C31, 120' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"
C30, 27' CONDUIT, 2", 725.051
B1, STA. 138+76.4, 48.3' LT
PULL BOX, 24", 725.08
C1, 5' CONDUIT, 3", 725.051
M1, STA. 138+80.4, 45.9' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 12, AS PER PLAN, ARM 47' WITH LIGHT POLE EXTENSION, L1, 15' BRACKET ARM, LED
B30, STA. 138+58.0, 54.1' LT.
PULL BOX, 24", 725.08
C34, 100' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

C4, 18' CONDUIT, 1-¼", 725.05
C32, 18' CONDUIT, 2", 725.05
B31, STA. 139+78.3, 51.1' LT.
PULL BOX, 24", 725.08
T7, STA. 139+79.0, 48.1' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
EXISTING CONTROLLER

M2, STA. 139+81.9, 53.2' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 2, AS PER PLAN, ARM 28' WITH LIGHT POLE EXTENSION, L2A, 15' BRACKET ARM, L2B, 15' BRACKET ARM, LED, SIDE ARM SIGNAL, 6H AND CCTV-IP-CAMERA SYSTEM, DOME TYPE
C5, 21' CONDUIT, 3", 725.051
T8, STA. 139+91.8, 42.2' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
T9, STA. 140+18.3, 72.2' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C8, 6' CONDUIT, 1-¼", 725.051
B3, STA. 140+21.9, 67.7' LT
PULL BOX, 24", 725.08
T6, STA. 139+82.8, 34.5' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C7, 48' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"
C6, 9' CONDUIT, 1-¼", 725.051
C3, 5' CONDUIT, 1-¼", 725.051
B2, STA. 139+88.2, 33.1' LT
PULL BOX, 24", 725.08

C17, 98' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

PROP. POWER SOURCE
POWER SERVICE, AS PER PLAN
C33, 6' CONDUIT, 3", 725.051
B32, STA. 138+58.0, 45.7' RT.
PULL BOX, 24", 725.08
STA. 138+59.9, 51.3' RT.
CONTROLLER, FOUNDATION AND WORK PAD, WITH BATTERY BACK UP SYSTEM
T11, STA. 138+59.9, 46.1' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
TELEPHONE IN CLOSE PROXIMITY
C16, 9' CONDUIT, 1-¼", 725.051
C15, 17' CONDUIT, 3", 725.051
C14, 19' CONDUIT, 4", 725.051
B6, STA. 138+77.7, 50.2' RT.
PULL BOX, 24", 725.08
B5, STA. 138+79.9, 51.9' RT
PULL BOX, 24", 725.08
C13, 3' CONDUIT, 3", 725.051
M4, STA. 138+81.6, 53.8' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 41'
C12, 87' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

C9, 80' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
M3, STA. 139+84.1, 44.7' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 40'
C10, 18' CONDUIT, 3", 725.051
B4, STA. 139+66.5, 43.5' RT
PULL BOX, 24", 725.08
C11, 17' CONDUIT, 1-¼", 725.051
T10, STA. 139+58.5, 58.5' RT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

SIGNAL HEADS

W5-W11
W1H, W3H, W4H

SIGNS

Milan Rd
S2, S4
D3-1
54" x 18"

Hull Rd
S1
D3-1
66" x 18"

Hull Rd
S3
D3-1
66" x 18"

2, 6A, 6B, 6H, 8A, 8B

1, 5, 7

4
USE CUT AWAY VISORS

P7, P8, P9, P3H
R10-3E-9
24"x9"

P1H, P5, P6 P10, P4H, P11
R10-3E-9
24"x9"

MILAN ROAD
HULL ROAD
TH 134
N 12° 51' W
S 37° 01' 48" E

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT HULL ROAD

ERI-250-0.00

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677

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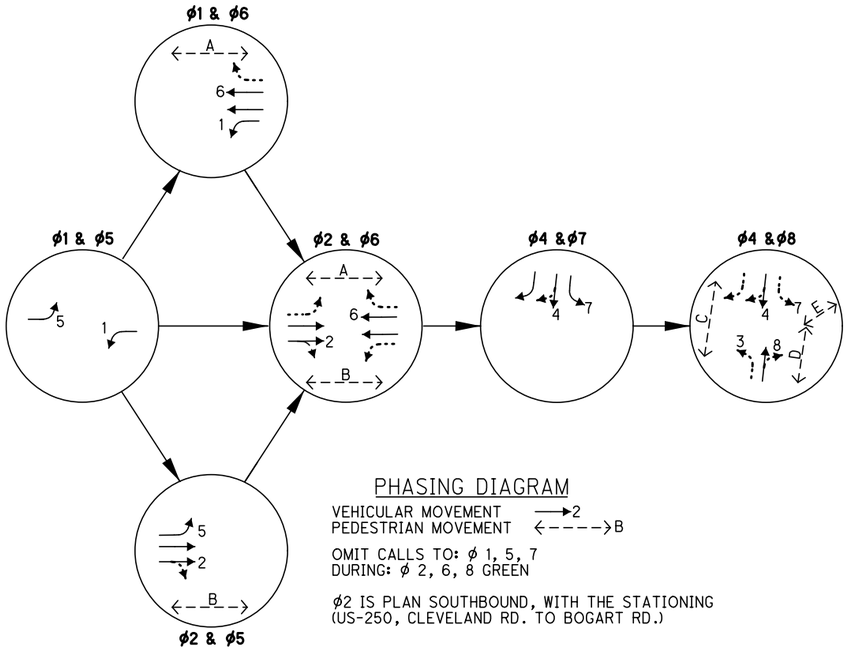

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1, 5, 7
DURING: ϕ 2, 6, 8 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND HULL RD.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA

OVERLAP:		-	-	-	-				
PHASES:		-	-	-	-				
CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	10.0	20.0	-	12.0	7.0	20.0	10.0	12.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	3.0	4.0	3.0	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	20.0	60.0	-	20.0	15.0	60.0	20.0	20.0
MAXIMUM GREEN II	(SEC)	20.0	60.0	-	20.0	15.0	60.0	20.0	20.0
YELLOW CHANGE	(SEC)	3.9	3.9	-	3.5	3.9	3.9	3.5	3.6
ALL RED CLEARANCE	(SEC)	1.8	2.1	-	2.8	2.1	1.8	2.8	2.6
WALK	(SEC)	-	6.0	-	7.0	-	6.0	-	6.0
PEDESTRIAN CLEARANCE	(SEC)	-	17.1	-	21.7	-	16.0	-	19.1
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED NO. 1		OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
CALL TO NON ACTUATED NO. 2		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			HULL ROAD	
625	180	FT	4" CONDUIT, TYPE E	
625	2	EACH	CONNECTOR KIT, TYPE II	
625	2	EACH	CONNECTOR KIT, TYPE III	
625	3	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1296	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	411	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	109	FT	CONDUIT, 1-1/4", 725.051	
625	31	FT	CONDUIT, 2", 725.051	
625	70	FT	CONDUIT, 3", 725.051	
625	19	FT	CONDUIT, 4", 725.051	
625	533	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	3	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	229	FT	TRENCH	
625	9	EACH	PULL BOX, 725.08, 24"	
625	15	EACH	GROUND ROD	
625	229	FT	PLASTIC CAUTION TAPE	
632	6	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	4	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	10	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	10	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	10	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	2298	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	655	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	7	EACH	PEDESTAL FOUNDATION	
632	1756	FT	LOOP DETECTOR LEAD-IN CABLE	
632	40	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	2	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 2 (ALTERNATE BID)	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 81.21, DESIGN 12 (ALTERNATE BID)	
632	7	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	7	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	CCTV IP-CAMERA, DOME TYPE	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL ITEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT HULL ROAD

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCED DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT	CCTV CAMERA	

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	C	SIDEROAD LEFT	PRESENCE	-	-	-	7
RS1	A, B	SIDEROAD THRU-RT	PRESENCE	-	-	-	4
RS3	A, B	SIDEROAD ALL	PRESENCE	-	-	-	8

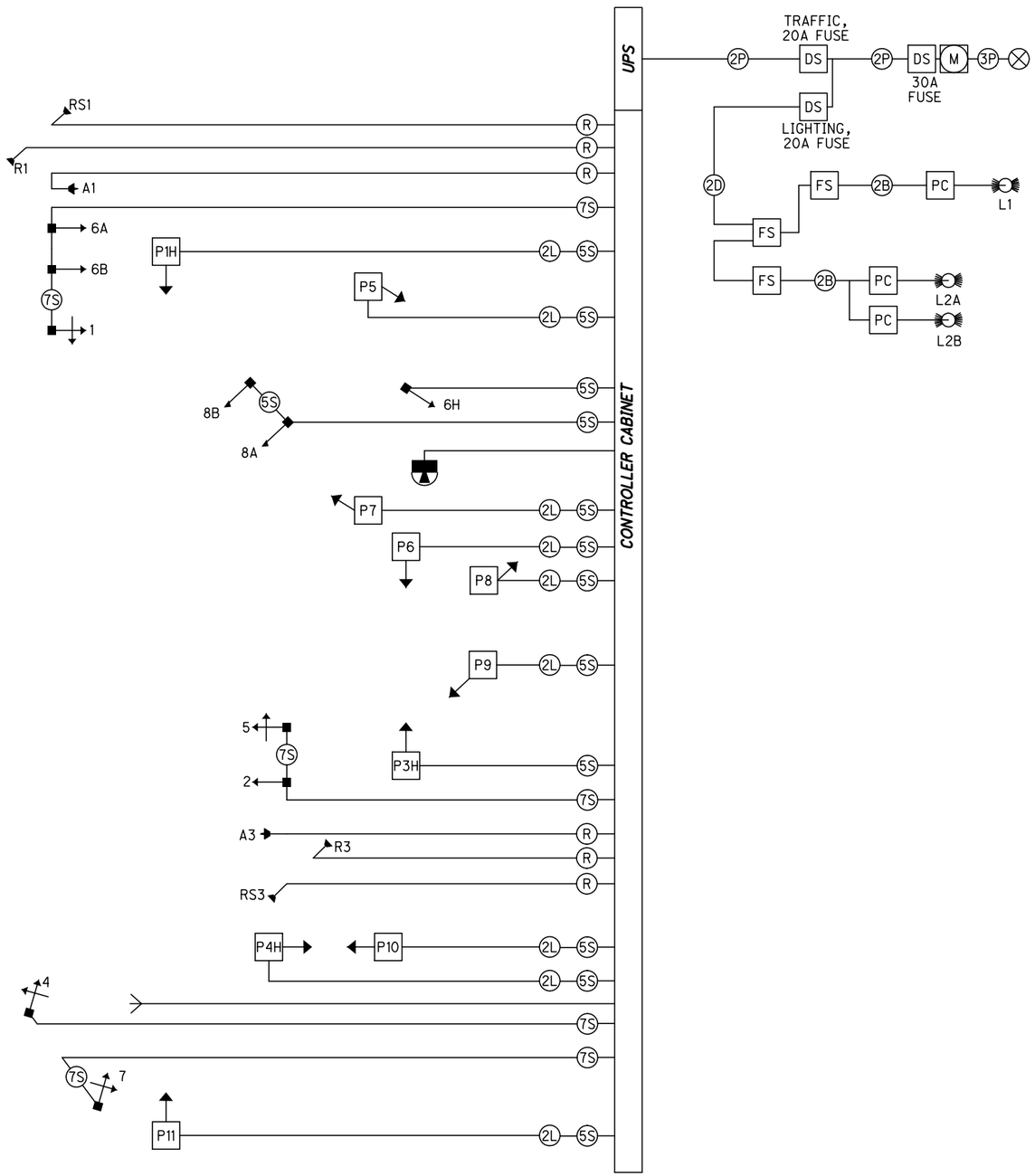
** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
1 (NBLT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- Y	ϕ 1 Y	
	<- G	ϕ 1 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
6H (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
2 (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
5 (SBLT)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	<- Y	ϕ 5 Y	
	<- G	ϕ 5 G	
7 (NBLT)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
	<- Y	ϕ 7 Y	
	<- G	ϕ 7 G	
4 (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
	Y ->	ϕ 7 Y	
	G ->	ϕ 7 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W5, W7 PED A	W	LS 9 ϕ 6 G	OUT
	DW	LS 9 ϕ 6 R	
W4H, W10 PED B	W	LS 10 ϕ 2 G	OUT
	DW	LS 10 ϕ 2 R	
W1H, W11 PED C	W	LS 11 ϕ 4 G	OUT
	DW	LS 11 ϕ 4 R	
W3H, W6 PED D	W	LS 12 ϕ 8 G	OUT
	DW	LS 12 ϕ 8 R	
W8, W9 PED E	W	LS 13 ϕ 8 G	OUT
	DW	LS 13 ϕ 8 R	

LS = LOAD SWITCH



CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250 (MILAN ROAD) AT HULL ROAD

ERI-250-0.00

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677

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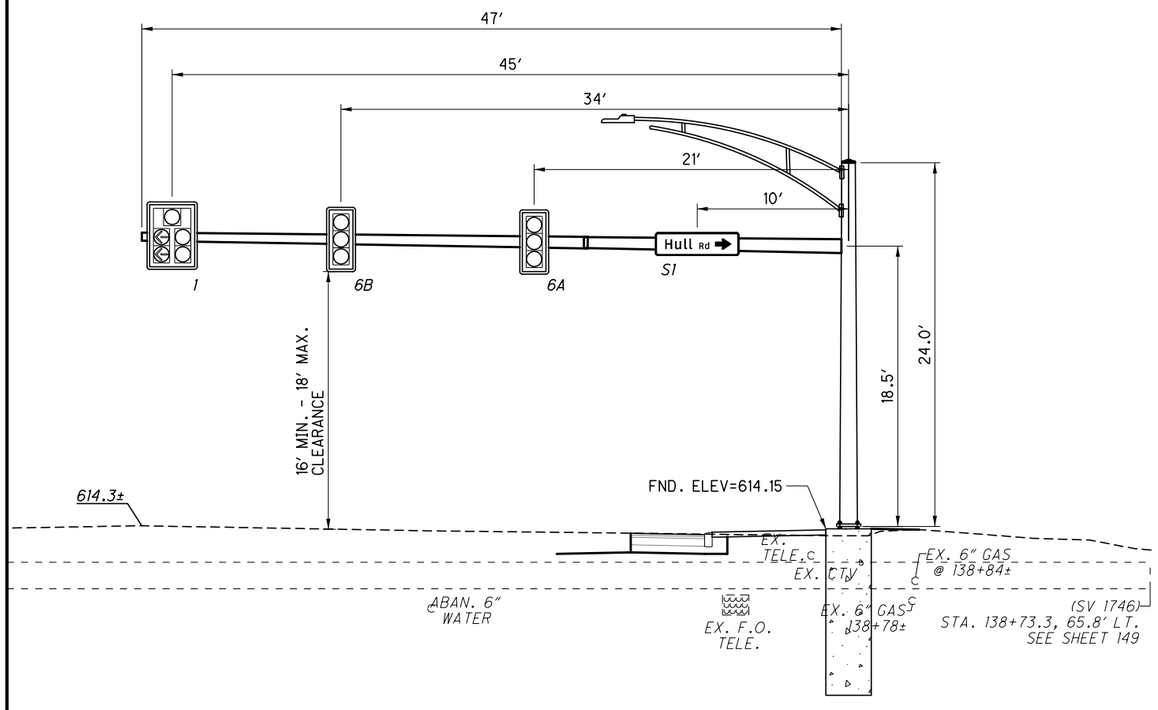
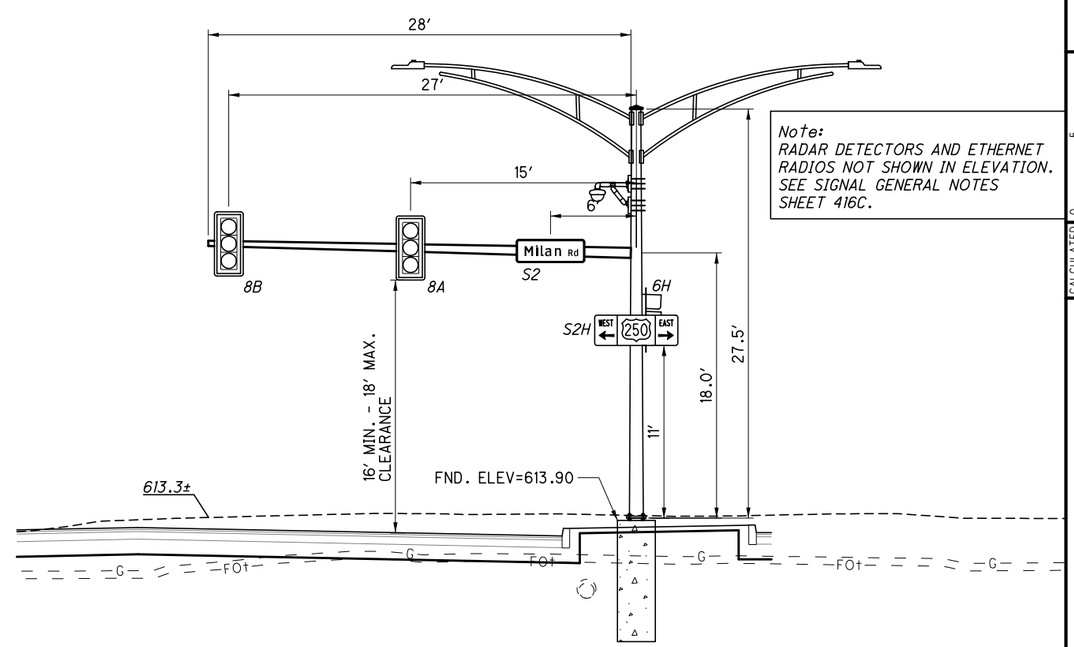
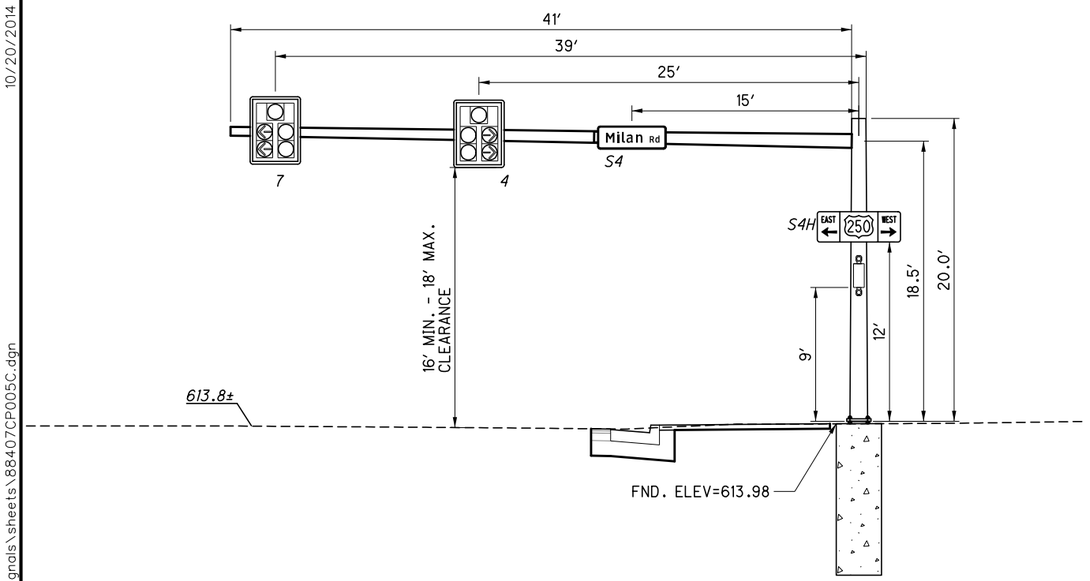


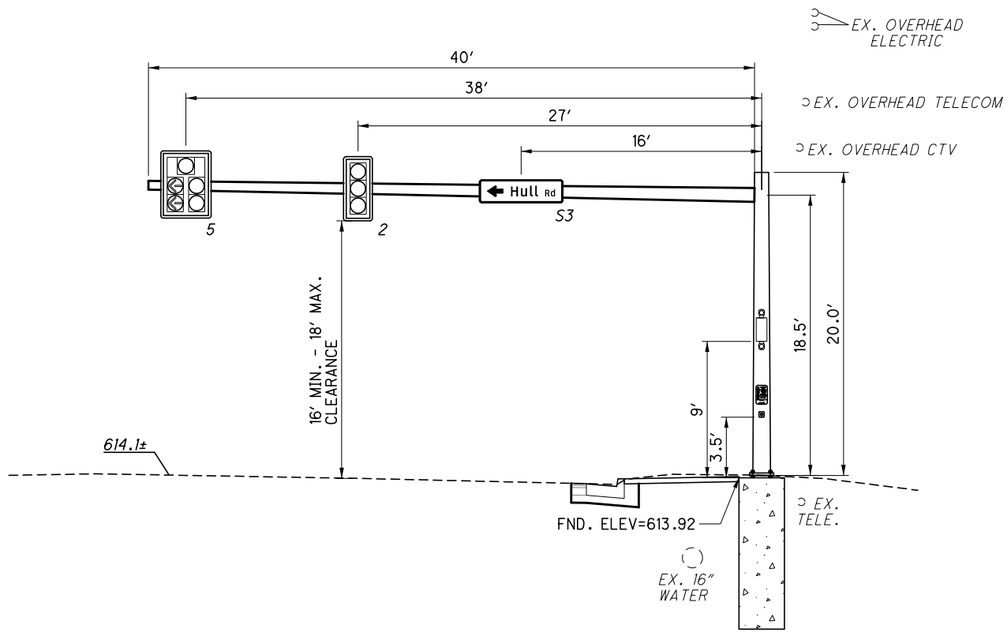
Comb. Signal Support M1 (Northbound)



Comb. Signal Support M2 (Eastbound)



Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET
0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT HULL ROAD

ERI-250-0.00

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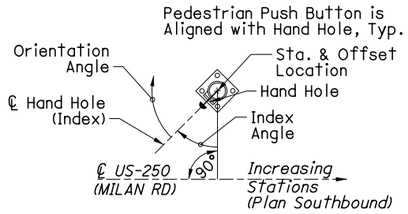
PEDESTAL ORIENTATION



Notes:

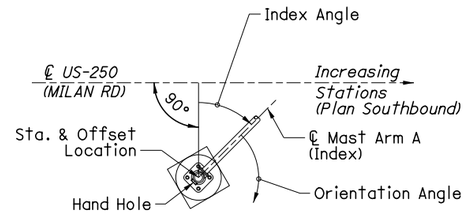
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	139+15.3	-71.9	LT	613.51	8	29	0	259	0	-
T6	139+82.8	-34.5	LT	614.32	8	90	0	270	0	-
T7	139+79.0	-48.1	LT	613.88	8	20	0	90	0	-
T8	139+91.8	-42.2	LT	613.91	8	141	0	90	0	-
T9	140+18.3	-72.2	LT	613.03	8	325	0	85	0	-
T10	139+58.5	58.5	RT	614.04	8	42	0	226	0	-
T11	138+69.9	46.1	RT	614.06	8	115	0	257	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A										
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN	CCTV IP-CAMERA
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG	DEG
M1	138+80.4	45.9	LT	12	24.0	18.5	0	-	-	90	90	15	0	-	-	180	-	-
M2	139+81.9	53.2	LT	2	27.5	18.0	111	-	90	-	-	15	0	15	180	180	270	45
M3	139+84.1	44.7	RT	11	20.0	18.5	0	-	-	270	270	-	-	-	-	180	-	-
M4	138+81.6	53.8	RT	11	20.0	18.5	97	-	-	270	39	-	-	-	-	180	270	-

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT HULL ROAD

ERI-250-0.00

453
677

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 152
FOR PAVEMENT MARKING PLANS SEE SHEET - 371, 372
FOR SIGNING PLANS SEE SHEET - 394, 395
FOR OVERHEAD SIGNS SEE SHEETS - 412 & 413

PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
TR	PULL BOX (B)	TR
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

C31, 113' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"
C3, 112' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
B30, STA. 155+19.3, 62.0' LT PULL BOX, 24", 725.08
C30, 6' CONDUIT, 2", 725.051
P1H W1H
M1, STA. 155+19.3, 55.9' LT. COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 13, AS PER PLAN, ARM 54', WITH LIGHT POLE EXTENSION, L1, 30' BRACKET ARM, LED
EXISTING CONTROLLER
C2, 13' CONDUIT, 3", 725.051
B1, STA. 155+09.4, 48.1' LT PULL BOX, 24", 725.08 GAS IN CLOSE PROXIMITY
C1, 3' CONDUIT, 1-¼", 725.051
P5 W5
T5, STA. 155+07.0, 46.9' LT. PEDESTAL, 8', TRASNFORMER BASE, AS PER PLAN TELEPHONE IN CLOSE PROXIMITY
NORTH MEIJER DRIVE
T6, STA. 156+12.2, 59.4' LT. PEDESTAL, 8', TRASNFORMER BASE, AS PER PLAN
W6 P6
C4, 10' CONDUIT, 1-¼", 725.051
B2, STA. 156+21.2, 54.0' LT. PULL BOX, 24", 725.08
B31, STA. 156+32.4, 62.0' LT. PULL BOX, 24", 725.08
C5, 11' CONDUIT, 1-¼", 725.051
T7, STA. 156+31.2, 51.1' LT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
4" WATER IN CLOSE PROXIMTIY
P7 W7
C6, 98' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
MILAN ROAD
C32, 106' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"
C8, 4' CONDUIT, 3", 725.051
PROP. POWER SOURCE
POWER SERVICE, AS PER PLAN
B32, STA. 156+41.5, 44.0' RT. PULL BOX, 24", 725.08
C33, 3' CONDUIT, 3", 725.051
STA. 156+34.6, 48.0' RT. CONTROLLER, WITH FOUNDATION, WORK PAD AND BATTERY BACK UP SYSTEM
B3, STA. 156+30.6, 44.0' RT. PULL BOX, 24", 725.08
C7, 9' CONDUIT, 3", 725.051
C9, 15' CONDUIT, 3", 725.051
W4H P4H
M4, STA. 155+11.2, 44.0' RT. SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 13, AS PER PLAN, ARM 50'
C11, 10' CONDUIT, 3", 725.051
B5, STA. 155+19.3, 48.9' RT. PULL BOX, 24", 725.08
C10, 99' CONDUIT, 3", 725.051
W3H P3H
B4, STA. 156+18.7, 48.9' RT PULL BOX, 24", 725.08
M3, STA. 156+22.1, 44.5' RT. SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 40'
RS1 RS1A RS1B R1 A1 S1 6A 6B FUTURE 1 N 37° 01' 48" W R1A R1B R1C R1D R1E A3A A3B S4 A4 A4B A3 R3 R3C R3D R3A R3B S3 5 2 A1A A1B
35' 30' 6' +00 +33 152 154 155 156 157 160

SIGNAL HEADS

2, 4A, 4B, 6A, 6B

5, FUTURE 1

USE CUT AWAY VISORS

W5, W6, W7 W1H, W3H, W4H

SIGNS

P1, P3, P5, P7 R10-3E-9 24"x9"

P2, P4, P6, P8 R10-3E-9 24"x9"

Milan Rd
S4
D3-1
54" x 18"

N. Meijer
S1, S3
D3-1
57" x 18"

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT NORTH MEIJER DRIVE
ERI-250-0.00

454
677

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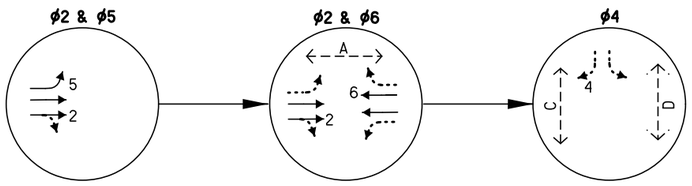

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 5
DURING: ϕ 6 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND NORTH MEIJER DR.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: NA
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:			1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :			NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)		(SEC)	-	20.0	-	10.0	10.0	20.0	10.0	-
PASSAGE (PRESET GAP)		(SEC)	-	4.0	-	4.0	3.0	4.0	3.0	-
ADDED INITIAL, SEC. PER ACT.			-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL		(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION		(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP		(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE		(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I		(SEC)	-	60.0	-	20.0	20.0	60.0	15.0	-
MAXIMUM GREEN II		(SEC)	-	60.0	-	20.0	15.0	60.0	15.0	-
YELLOW CHANGE		(SEC)	-	3.9	-	3.0	3.9	3.9	3.0	-
ALL RED CLEARANCE		(SEC)	-	2.0	-	2.9	2.0	1.9	2.9	-
WALK		(SEC)	-	-	-	7.0	-	7.0	-	-
PEDESTRIAN CLEARANCE		(SEC)	-	-	-	22.3	-	25.1	-	-
RECALL	MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED		NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
		NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			NORTH MEIJER DRIVE	
625	100	FT	4" CONDUIT, TYPE E	
625	1	EACH	CONNECTOR KIT, TYPE II	
625	1	EACH	CONNECTOR KIT, TYPE III	
625	1	EACH	BRACKET ARM, 30', AS PER PLAN	
625	795	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	189	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	24	FT	CONDUIT, 1-1/4", 725.051	
625	6	FT	CONDUIT, 2", 725.051	
625	153	FT	CONDUIT, 3", 725.051	
625	429	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	1	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	183	FT	TRENCH	
625	8	EACH	PULL BOX, 725.08, 24"	
625	10	EACH	GROUND ROD	
625	183	FT	PLASTIC CAUTION TAPE	
632	5	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	6	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	6	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	6	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	6	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	1242	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	449	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	3	EACH	SIGNAL SUPPORT FOUNDATION	
632	3	EACH	PEDESTAL FOUNDATION	
632	1015	FT	LOOP DETECTOR LEAD-IN CABLE	
632	94	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	3	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	3	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	3	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT NORTH MEIJER DRIVE

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	A, B	SIDEROAD ALL	PRESENCE	-	-	-	4

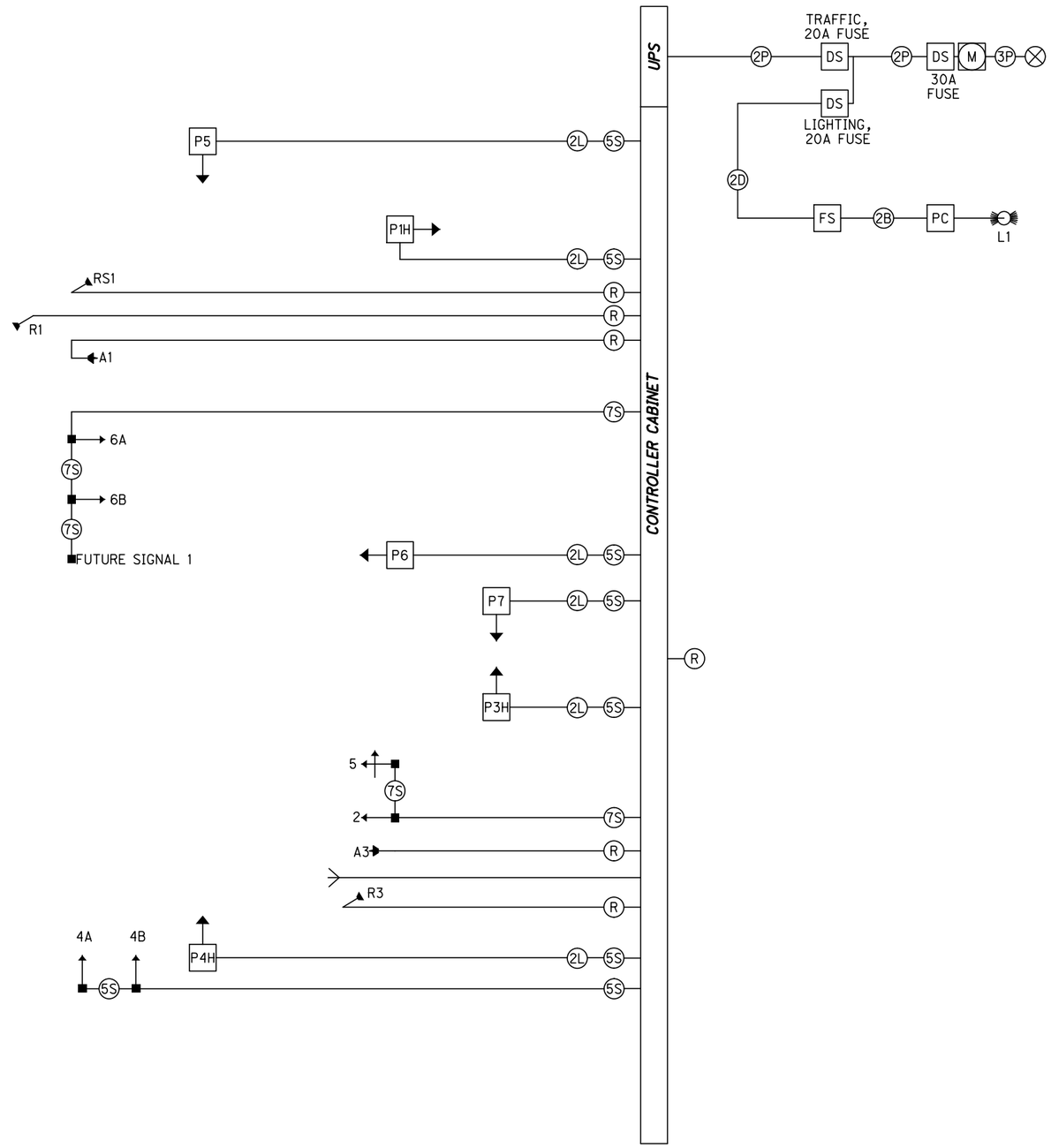
** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ø 6 R	Y
	Y	ø 6 Y	
	G	ø 6 G	
FUTURE 1 (NBLT)	R	ø 6 R *	Y
	Y	ø 6 Y *	
	G	ø 6 G *	
	<- Y	ø 1 Y *	
	<- G	ø 1 G *	
2 (SB)	R	ø 2 R	Y
	Y	ø 2 Y	
	G	ø 2 G	
5 (SBLT)	R	ø 2 R	Y
	Y	ø 2 Y	
	G	ø 2 G	
	<- Y	ø 5 Y	
	<- G	ø 5 G	
4A, 4B (WB)	R	ø 4 R	R
	Y	ø 4 Y	
	G	ø 4 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W6, W1H PED A	W	LS 9 / G / ø 6	OUT
	DW	LS 9 / R / ø 6	
W4H, W5 PED C	W	LS 11 / G / ø 4	OUT
	DW	LS 11 / R / ø 4	
W3H, W7 PED D	W	LS 11 / G / ø 4	OUT
	DW	LS 11 / R / ø 4	

* FOR INFORMATION ONLY, DO NOT CONNECT
LS = LOAD SWITCH



CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250 (MILAN ROAD) AT NORTH MEIJER DRIVE

ERI-250-0.00

456
677

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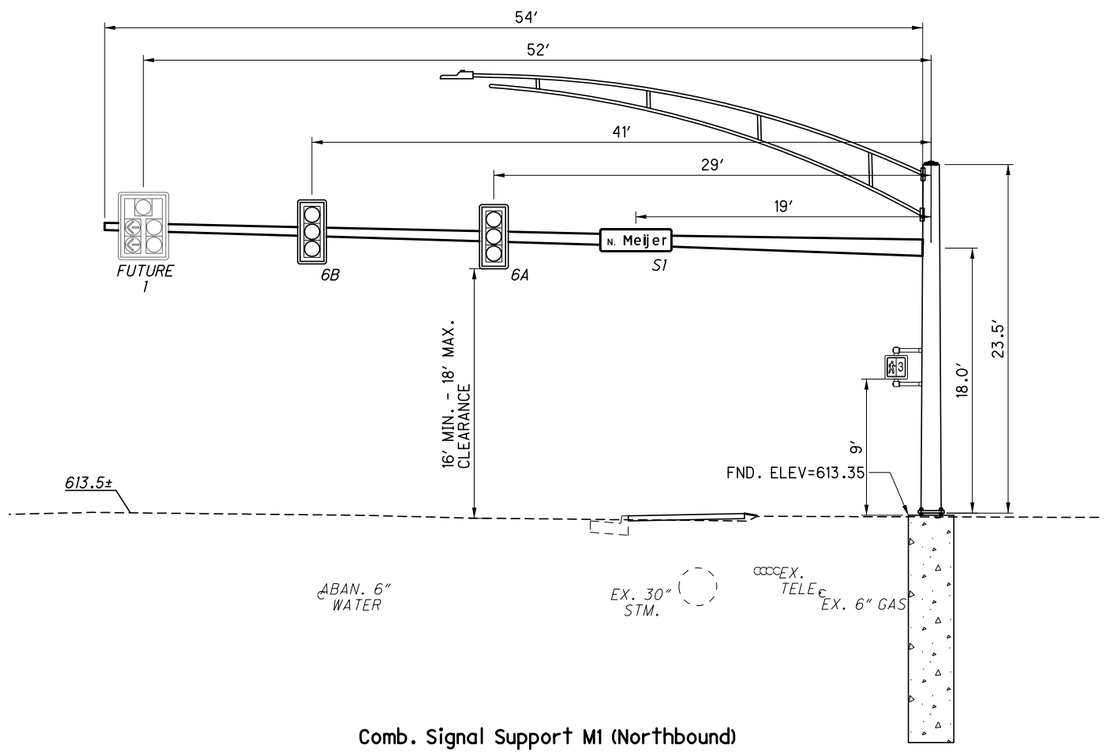
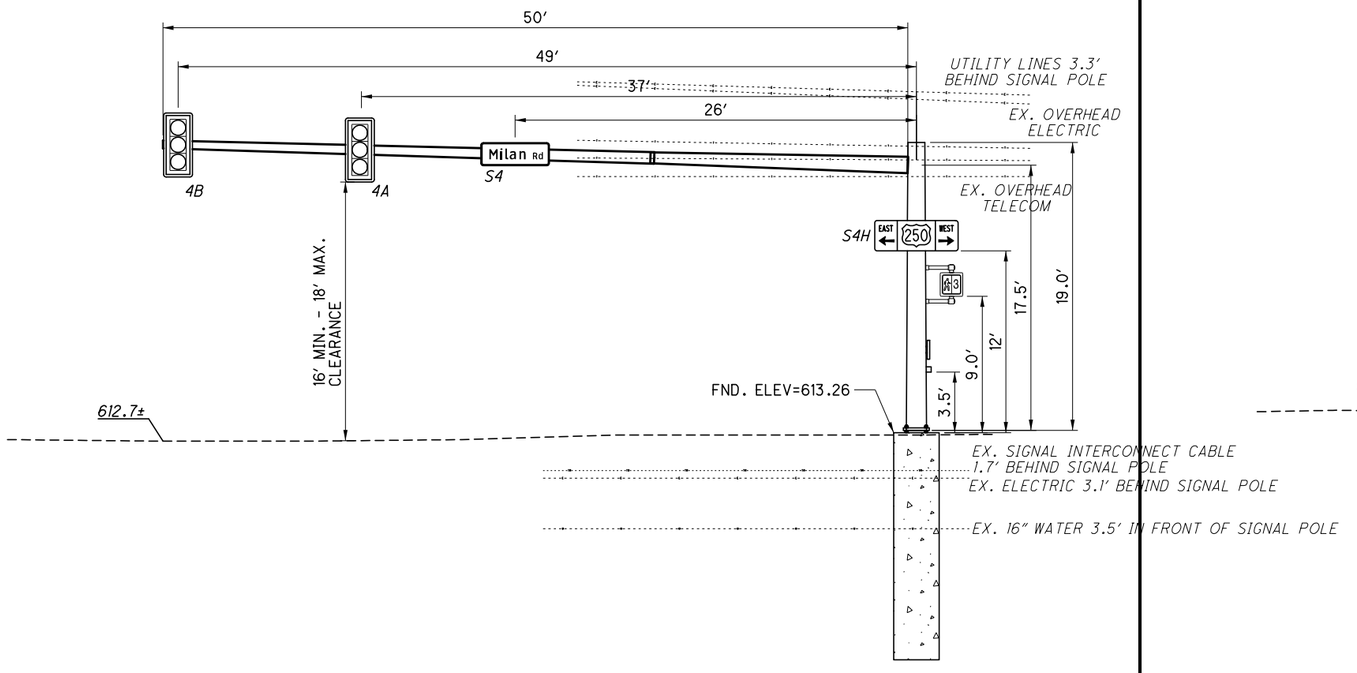
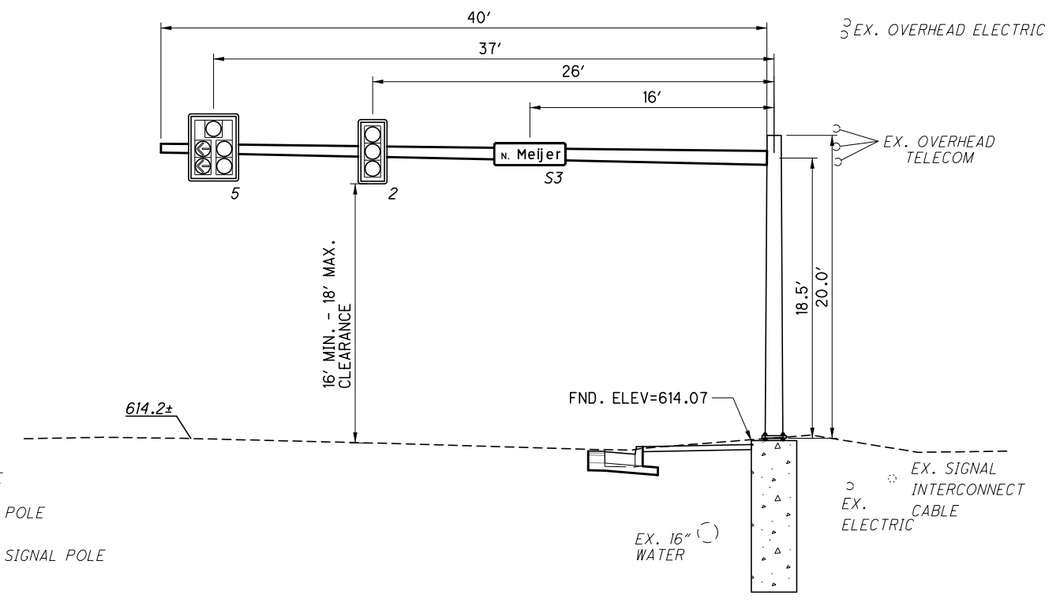


Comb. Signal Support M1 (Northbound)

Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.



Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET
0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT NORTH MEIJER DRIVE
ERI-250-0.00

457
677

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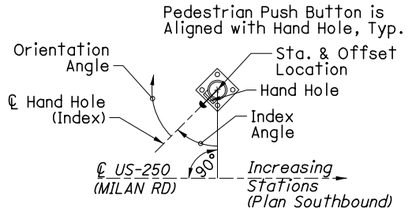
PEDESTAL ORIENTATION



Notes:

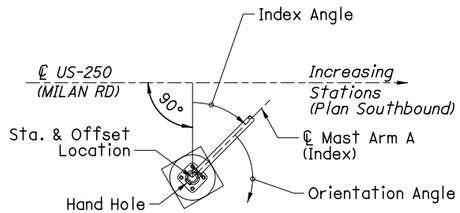
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
		FT				DEG	DEG	DEG	DEG	DEG
T5	155+07.0	-46.9	LT	613.15	8	70	0	289	0	-
T6	156+12.2	-59.4	LT	614.20	8	304	0	138	0	-
T7	156+31.2	-51.1	LT	613.82	8	106	0	254	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A								
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	155+19.3	55.9	LT	13	23.5	18.0	0	-	-	0	53	30	0	-	-	180	-
M3	156+22.1	44.5	RT	11	20.0	18.5	0	-	-	90	90	-	-	-	-	180	-
M4	155+11.2	44.0	RT	13	19.0	17.5	90	-	-	180	180	-	-	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT NORTH MEIJER DRIVE

ERI-250-0.00

458
677

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 154
FOR PAVEMENT MARKING PLANS SEE SHEET - 372
FOR SIGNING PLANS SEE SHEET - 395
FOR OVERHEAD SIGN SEE SHEETS - 412 & 413

PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

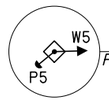
SIGNS

P2H
R10-3E-9
24"x9"

P5
R10-3E-9
24"x9"

S2, S4
D3-1
54" x 18"

S1, S3
D3-1
57" x 18"



T5, STA. 166+00.3, 62.3' LT
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

B30, STA. 165+97.6, 64.8' LT.
PULL BOX, 24", 725.08

C2, 4' CONDUIT, 1-1/4", 725.051

B1, STA. 165+96.7, 61.7' LT
PULL BOX, 24", 725.08

C1, 16' CONDUIT, 3", 725.051

C30, 18' CONDUIT, 2", 725.051

M1, STA. 165+82.0, 54.9' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 13, AS PER PLAN, ARM 53', WITH LIGHT POLE EXTENSION, L1, AND 20' BRACKET ARM, LED

EXISTING CONTROLLER

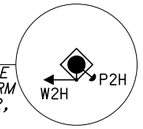
SOUTH MEIJER DRIVE

C31, 77' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

B31, STA. 166+74.2, 64.8' LT.
PULL BOX, 24", 725.08

C32, 6' CONDUIT, 2", 725.051

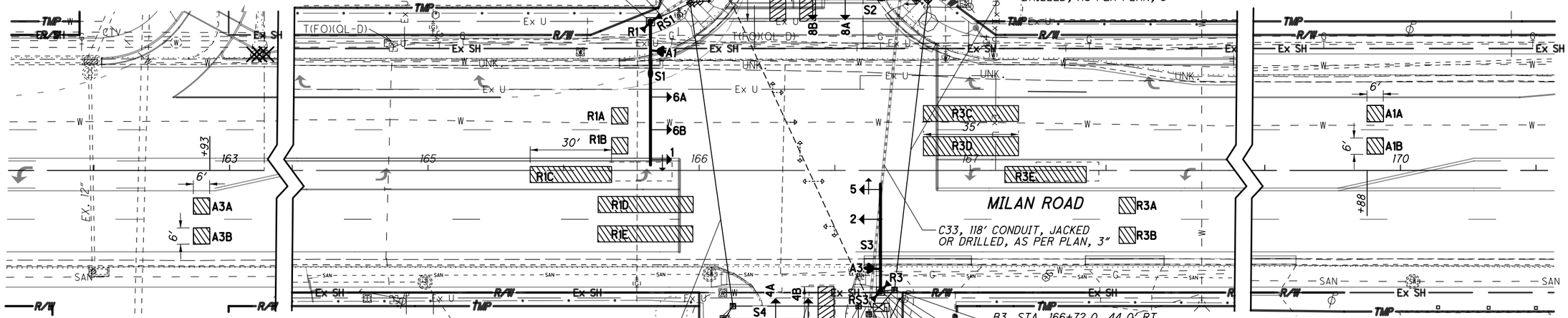
M2, STA. 166+80.1, 63.4' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 39' WITH LIGHT POLE EXTENSION, L2, 15' BRACKET ARM, LED



C3, 4' CONDUIT, 3", 725.051

B2, STA. 166+84.4, 62.7' LT.
PULL BOX, 24", 725.08

C4, 107' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"



C10, 113' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

B5, STA. 166+12.5, 50.0' RT
PULL BOX, 24", 725.08

M4, STA. 166+09.2, 55' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 2, AS PER PLAN, ARM 32'

C9, 6' CONDUIT, 3", 725.051

C8, 46' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

B4, STA. 166+58.8, 50.0' RT.
PULL BOX, 24", 725.08

C7, 8' CONDUIT, 3", 725.051

B3, STA. 166+72.0, 44.0' RT
PULL BOX, 24", 725.08

PROP. POWER SOURCE

C5, 5' CONDUIT, 3", 725.051

M3, STA. 166+66.9, 44.5' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 40' CONSTRUCT OVER ABANDONED SANITARY FORCE MAIN

POWER SERVICE, AS PER PLAN

C6, 9' CONDUIT, 3", 725.051

STA. 166+67.1, 52.0' RT.
CONTROLLER, FOUNDATION AND WORK PAD, WITH BATTERY BACK UP SYSTEM

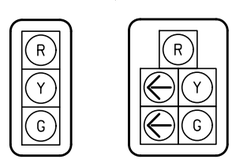
C34, 6' CONDUIT, 3", 725.051

B31, STA. 166+62.6, 53.0' RT.
PULL BOX, 24", 725.08

C33, 118' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

SIGNAL HEADS

W5, W2H



2, 4A, 4B, 6A, 6B, 8A, 8B

1, 5

USE CUT AWAY VISORS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT SOUTH MEIJER DRIVE

ERI-250-0.00

459
677

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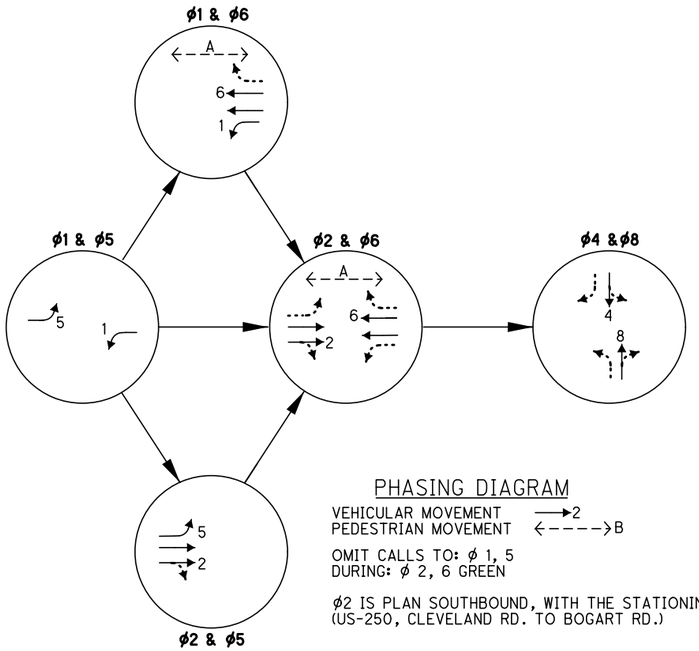

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1, 5
DURING: ϕ 2, 6 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND SOUTH MEIJER DR.

MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:			1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :			NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)		(SEC)	7.0	20.0	-	10.0	7.0	20.0	-	10.0
PASSAGE (PRESET GAP)		(SEC)	3.0	4.0	-	4.0	3.0	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.			-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL		(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION		(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP		(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE		(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I		(SEC)	15.0	60.0	-	20.0	15.0	60.0	-	20.0
MAXIMUM GREEN II		(SEC)	15.0	60.0	-	20.0	15.0	60.0	-	20.0
YELLOW CHANGE		(SEC)	3.9	3.9	-	3.0	3.9	3.9	-	3.0
ALL RED CLEARANCE		(SEC)	1.5	1.4	-	3.0	1.4	1.5	-	3.2
WALK		(SEC)	-	-	-	-	-	7.0	-	-
PEDESTRIAN CLEARANCE		(SEC)	-	-	-	-	-	20.6	-	-
RECALL	MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED		NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
		NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			SOUTH MEIJER DRIVE	
625	160	FT	4" CONDUIT, TYPE E	
625	2	EACH	CONNECTOR KIT, TYPE II	
625	2	EACH	CONNECTOR KIT, TYPE III	
625	1	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1	EACH	BRACKET ARM, 20', AS PER PLAN	
625	885	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	303	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	4	FT	CONDUIT, 1-1/4", 725.051	
625	24	FT	CONDUIT, 2", 725.051	
625	54	FT	CONDUIT, 3", 725.051	
625	461	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	2	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	82	FT	TRENCH	
625	8	EACH	PULL BOX, 725.08, 24"	
625	9	EACH	GROUND ROD	
625	82	FT	PLASTIC CAUTION TAPE	
632	7	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	2	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	2	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	724	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	384	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	1	EACH	PEDESTAL FOUNDATION	
632	367	FT	LOOP DETECTOR LEAD-IN CABLE	
632	46	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 2 (ALTERNATE BID)*	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)	
632	1	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	1	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT SOUTH MEIJER DRIVE

ERI-250.0.00

460
677

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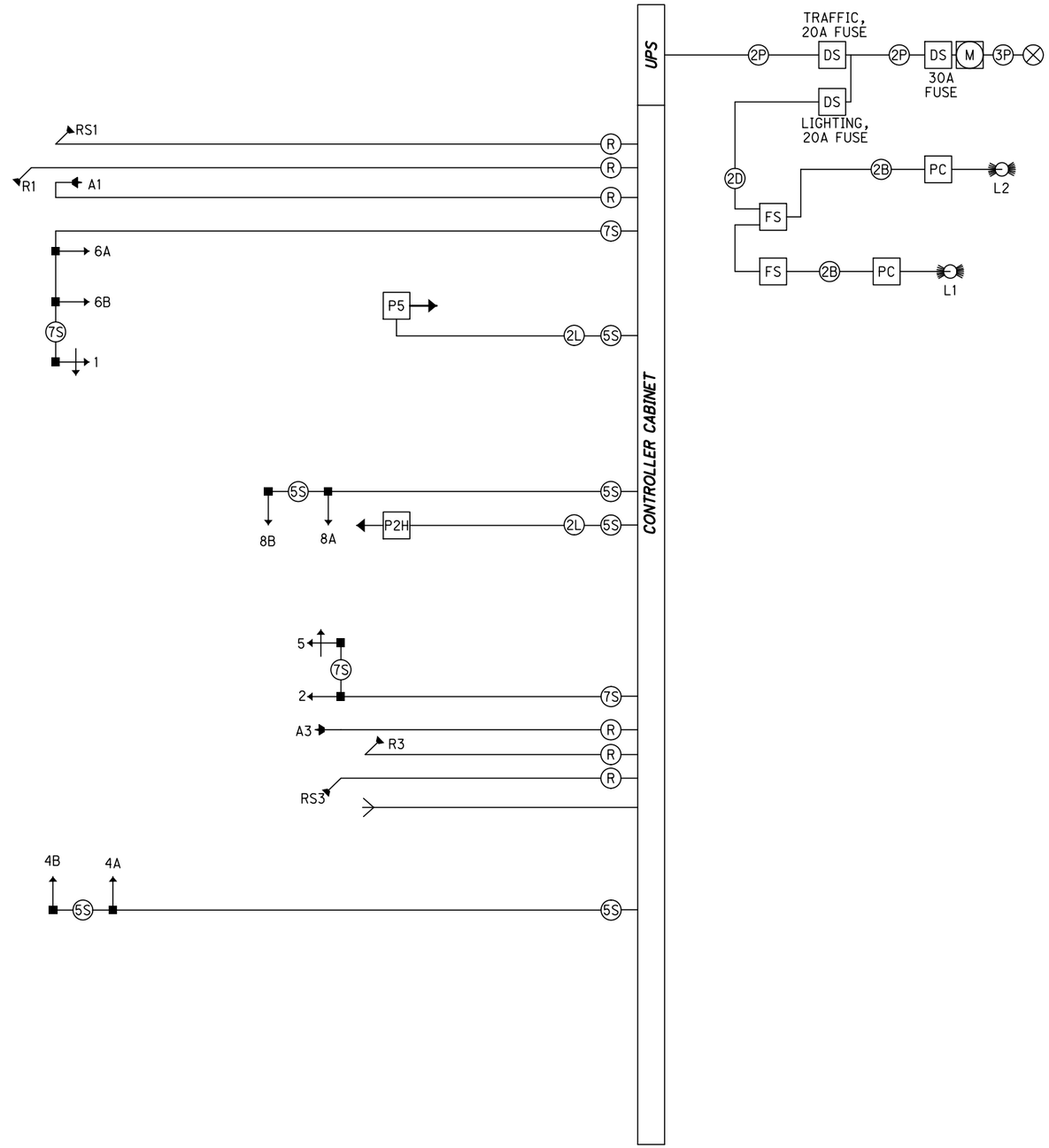
DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*



RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	A, B	SIDEROAD ALL	PRESENCE	-	-	-	4
RS3	A	SIDEROAD ALL	PRESENCE	-	-	-	8

** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ø 6 R	Y
	Y	ø 6 Y	
	G	ø 6 G	
1 (NBLT)	R	ø 6 R	Y
	Y	ø 6 Y	
	G	ø 6 G	
	<- Y	ø 1 Y	
	<- G	ø 1 G	
8A, 8B (EB)	R	ø 8 R	R
	Y	ø 8 Y	
	G	ø 8 G	
2 (SB)	R	ø 2 R	Y
	Y	ø 2 Y	
	G	ø 2 G	
5 (SBLT)	R	ø 2 R	Y
	Y	ø 2 Y	
	G	ø 2 G	
	<- Y	ø 5 Y	
	<- G	ø 5 G	
4A, 4B (WB)	R	ø 4 R	R
	Y	ø 4 Y	
	G	ø 4 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W5, W2H	W	LS 9 ø 6 G	OUT
PED A	DW	LS 9 ø 6 R	

LS = LOAD SWITCH

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250 (MILAN ROAD) AT SOUTH MEIJER DRIVE

ERI-250-0.00

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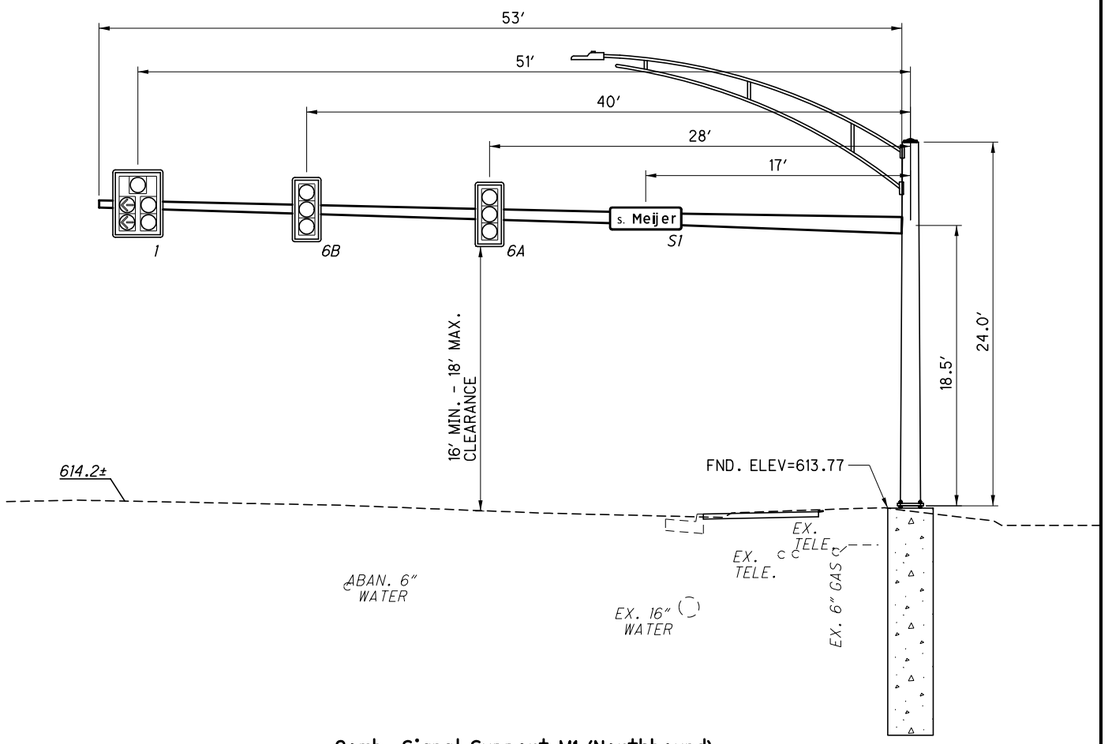
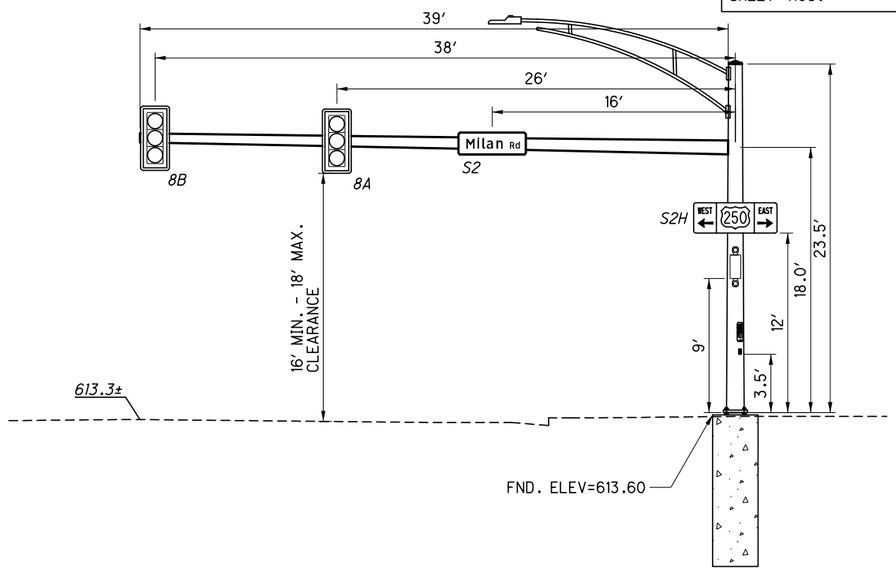
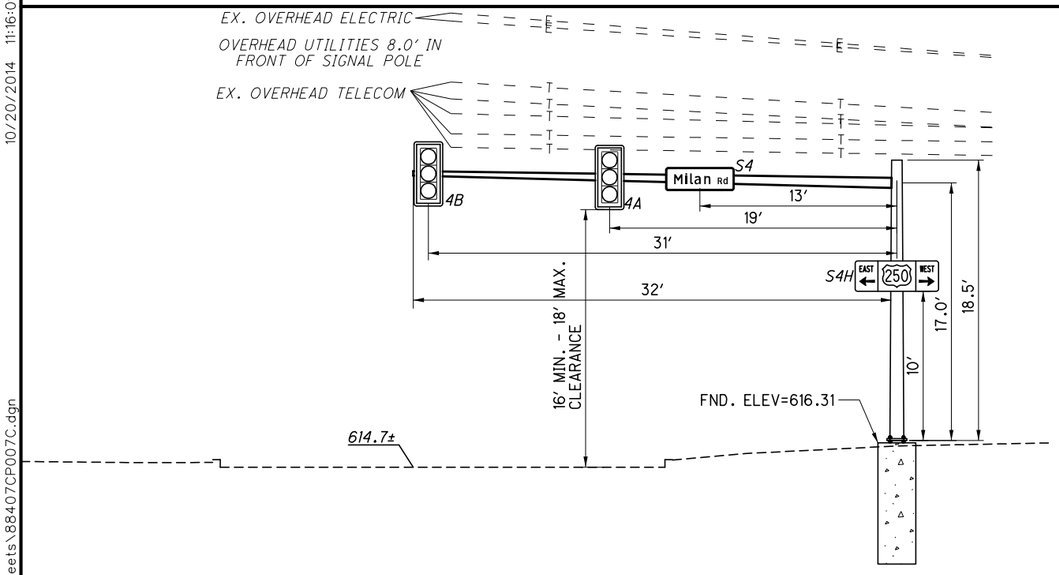


Comb. Signal Support M1 (Northbound)

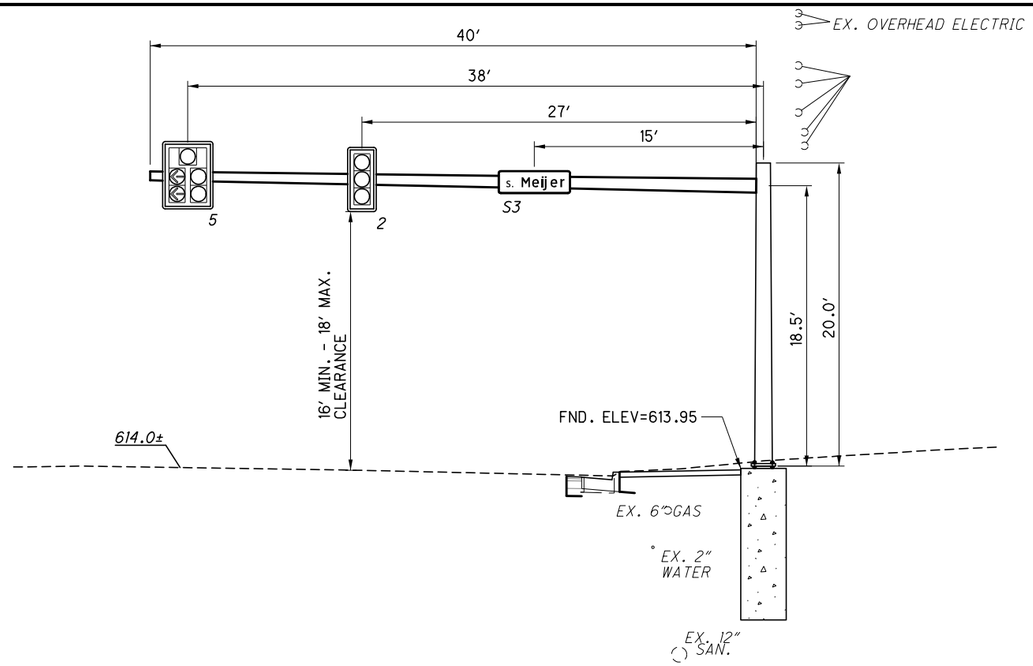
Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.



Comb. Signal Support M2 (Eastbound)



Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT SOUTH MEIJER DRIVE
ERI-250-0.00

462
677

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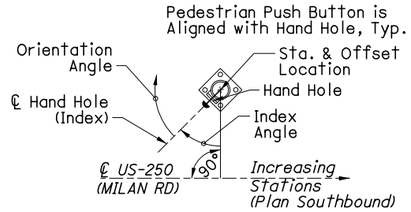
PEDESTAL ORIENTATION



Notes:

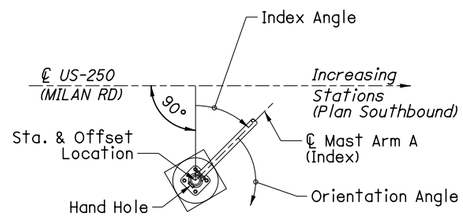
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	166+00.3	-62.3	LT	613.63	8	51	0	217	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	165+82.0	54.9	LT	13	24.0	18.5	0	-	-	-	-	20	0	-	-	180	-
M2	166+80.1	63.4	LT	11	23.5	18.0	90	-	-	270	219	15	0	-	-	180	270
M3	166+66.9	44.5	RT	11	20.0	18.5	0	-	-	-	-	-	-	-	-	180	-
M4	166+09.2	55.0	RT	2	18.5	17.0	90	-	-	-	-	-	-	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT SOUTH MEIJER DRIVE

ERI-250-0.00

463
677

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 157, 255
FOR PAVEMENT MARKING PLANS SEE SHEET - 374
FOR SIGNING PLANS SEE SHEET - 397
FOR OVERHEAD SIGNS SEE SHEETS - 412 & 413

SIGNAL HEADS

USE CUT AWAY VISORS

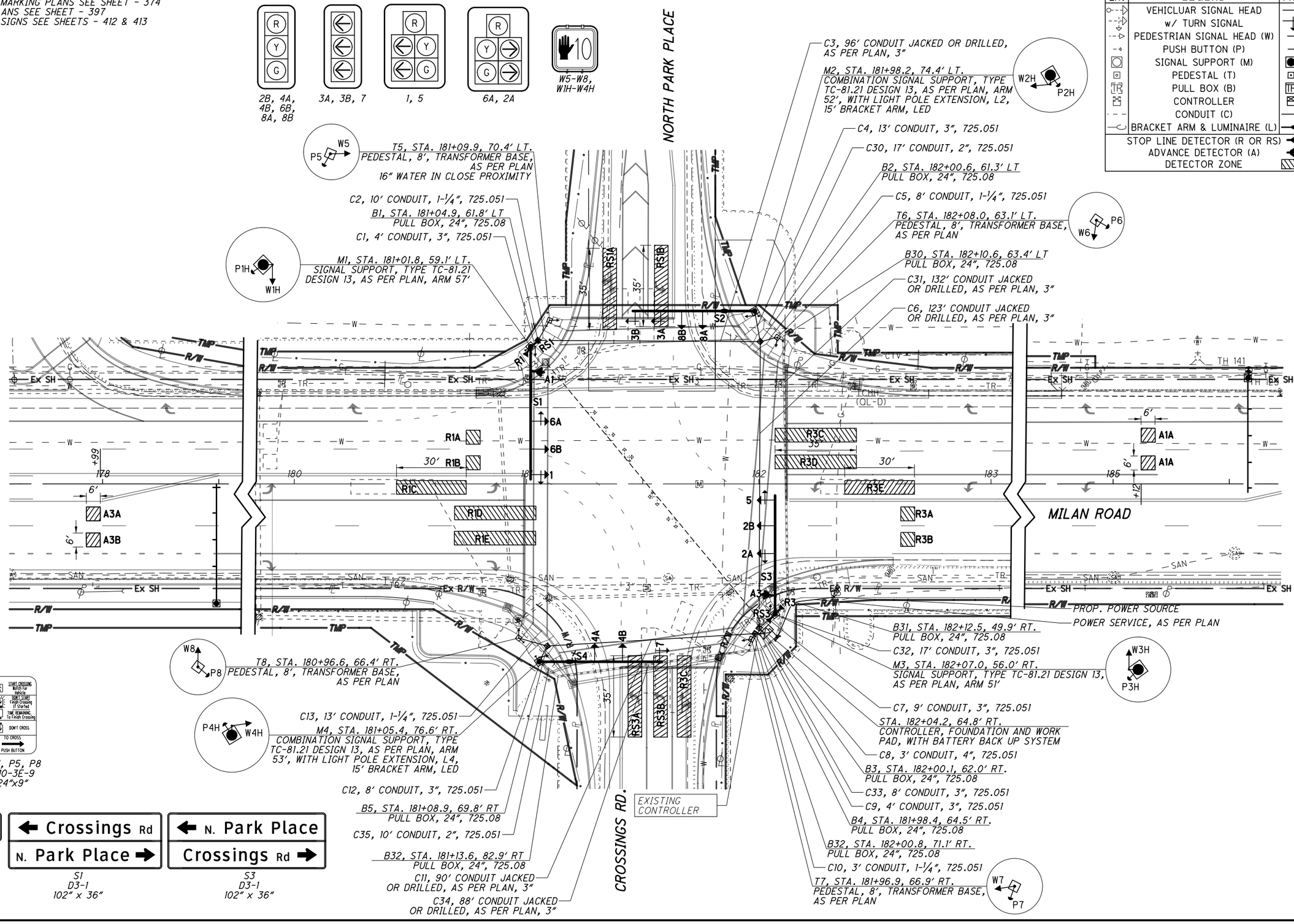
2B, 4A, 4B, 6B, 8A, 8B | 3A, 3B, 7 | 1, 5 | 6A, 2A | W5-W8, W1H-W4H

PLAN NORTH

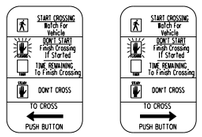
EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED LMZ | CHECKED GAB



SIGNS



P6, P7, P2H, P3H, P4H
R10-3E-9
24"x9"

P1H, P5, P8
R10-3E-9
24"x9"

Milan Rd	← Crossings Rd / N. Park Place →	← N. Park Place / Crossings Rd →
S2, S4 D3-1 54" x 24"	S1 D3-1 102" x 36"	S3 D3-1 102" x 36"

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT CROSSINGS RD
ERI-250-0.00

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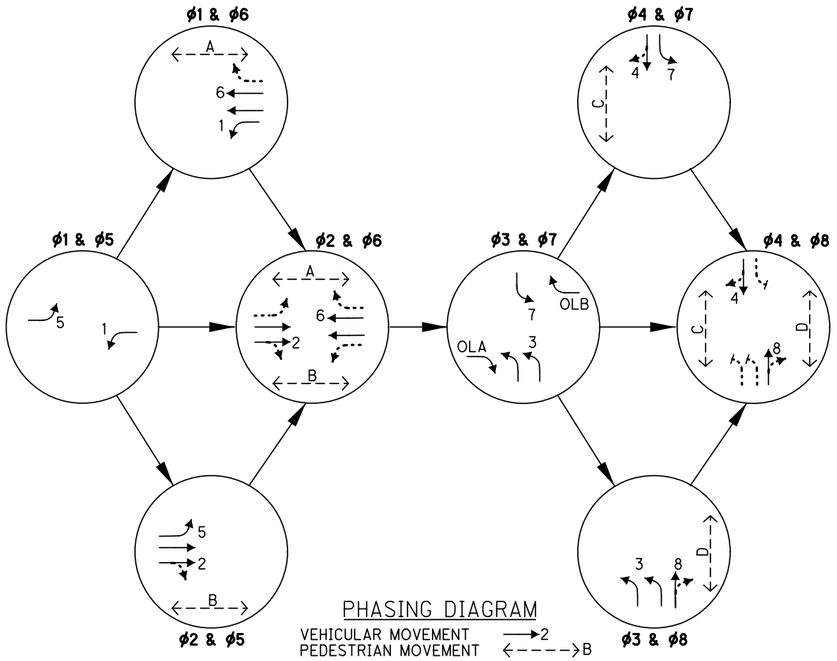

PHASING DIAGRAM

VEHICULAR MOVEMENT →2
PEDESTRIAN MOVEMENT ←----→B

OMIT CALLS TO: ϕ 1, 3, 5, 7
DURING: ϕ 2, 4, 6, 8 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND CROSSINGS RD.

MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA

OVERLAP:	A	B	-	-			
PHASES:	3	7	-	-			

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	20.0	7.0	10.0	7.0	20.0	7.0	10.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	15.0	60.0	20.0	20.0	15.0	60.0	20.0	20.0
MAXIMUM GREEN II	(SEC)	15.0	60.0	20.0	20.0	15.0	60.0	20.0	20.0
YELLOW CHANGE	(SEC)	3.9	3.9	3.0	3.0	3.9	3.9	3.0	3.0
ALL RED CLEARANCE	(SEC)	1.8	1.7	3.7	3.3	1.7	1.8	3.3	3.7
WALK	(SEC)	-	7.0	-	7.0	-	7.0	-	7.0
PEDESTRIAN CLEARANCE	(SEC)	-	20.9	-	33.3	-	22.0	-	31.0
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED NO. 1		OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
CALL TO NON ACTUATED NO. 2		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			CROSSINGS ROAD	
625	180	FT	4" CONDUIT, TYPE E	
625	2	EACH	CONNECTOR KIT, TYPE II	
625	2	EACH	CONNECTOR KIT, TYPE III	
625	2	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1008	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	288	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	34	FT	CONDUIT, 1-1/4", 725.051	
625	27	FT	CONDUIT, 2", 725.051	
625	63	FT	CONDUIT, 3", 725.051	
625	3	FT	CONDUIT, 4", 725.051	
625	529	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	2	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	127	FT	TRENCH	
625	9	EACH	PULL BOX, 725.08, 24"	
625	12	EACH	GROUND ROD	
625	127	FT	PLASTIC CAUTION TAPE	
632	9	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	4	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	13	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	2086	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	834	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	4	EACH	PEDESTAL FOUNDATION	
632	1231	FT	LOOP DETECTOR LEAD-IN CABLE	
632	71	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	23	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	2	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	2	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	4	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	4	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL ITEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT CROSSINGS ROAD

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	STOP BAR	PRESENCE	-	-	-	6
RS1	B	SIDEROAD LEFT	PRESENCE	-	-	-	7
RS1	A	SIDEROAD THRU-RT	PRESENCE	-	-	-	4
RS3	A, B	SIDEROAD LEFT	PRESENCE	-	-	-	3
RS3	C	SIDEROAD THRU-RT	PRESENCE	-	-	-	8

** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

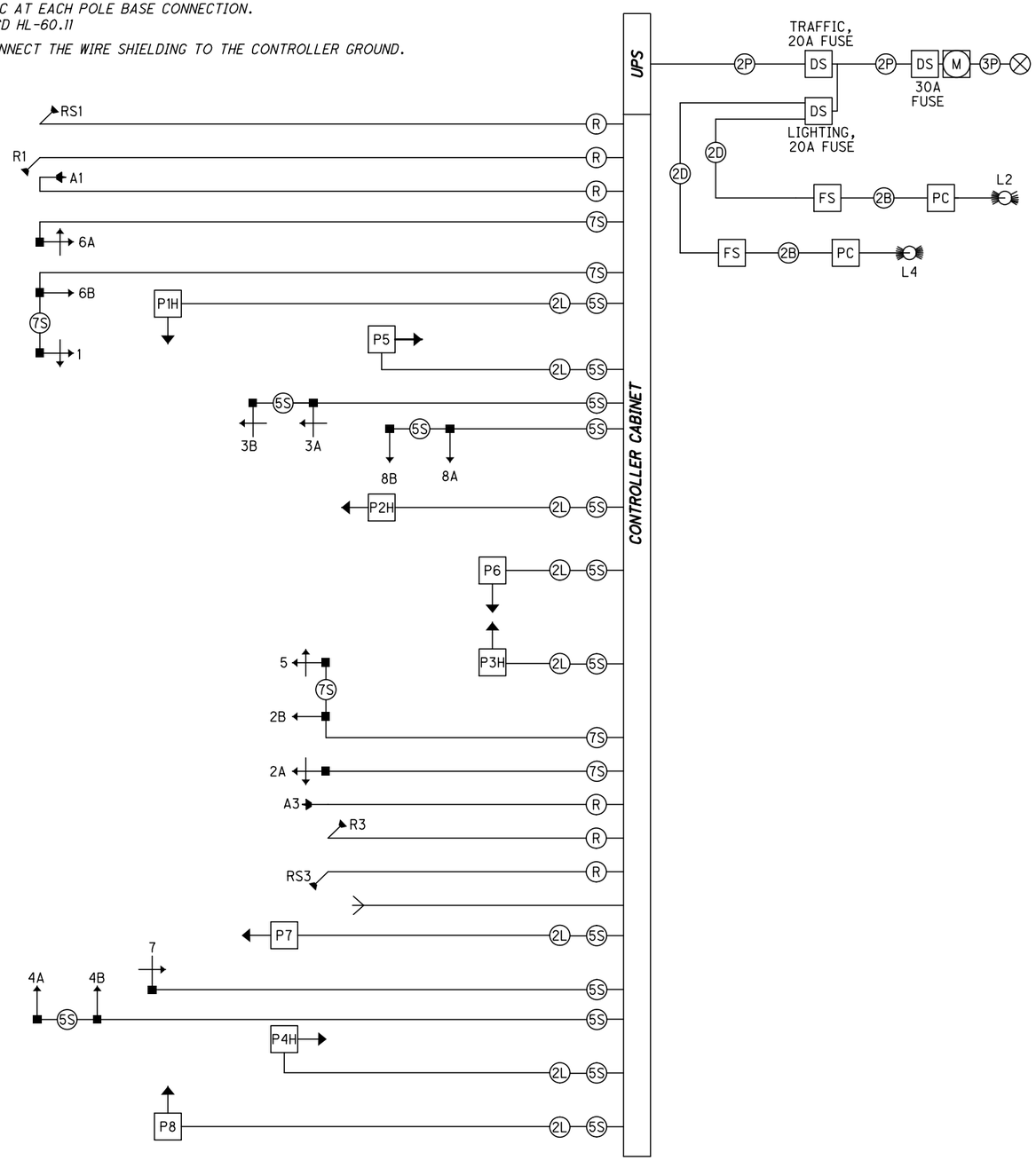
SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A (NBRT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	Y ->	LS 14 / G	
	G ->	LS 14 / Y	
6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
1 (NBLT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- Y	ϕ 1 Y	
	<- G	ϕ 1 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
3A, 3B (EBLT)	<- R	ϕ 3 R	<- R
	<- Y	ϕ 3 Y	
	<- G	ϕ 3 G	
5 (SBLT)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	<- Y	ϕ 5 Y	
	<- G	ϕ 5 G	
2B (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
2A (SBRT)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	Y ->	LS 13 / Y	
	G ->	LS 13 / G	
4A & 4B (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
7 (WBLT)	<- R	ϕ 7 R	<- R
	<- Y	ϕ 7 Y	
	<- G	ϕ 7 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W5, W2H PED A	W	LS 9 ϕ 6 G	OUT
	DW	LS 9 ϕ 6 R	
W4H, W7 PED B	W	LS 10 ϕ 2 G	OUT
	DW	LS 10 ϕ 2 R	
W1H, W8 PED C	W	LS 11 ϕ 4 G	OUT
	DW	LS 11 ϕ 4 R	
W3H, W6 PED D	W	LS 12/ ϕ 8 G	OUT
	DW	LS 12 ϕ 8 R	
OVERLAPS			
2A OLA	Y ->	LS 13 / G	OUT
	G ->	LS 13 / Y	
6B OLB	Y ->	LS 14 / G	OUT
	G ->	LS 14 / Y	

LS = LOAD SWITCH

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*



CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING

US-250 (MILAN ROAD) AT CROSSINGS ROAD

ERI-250-0.00

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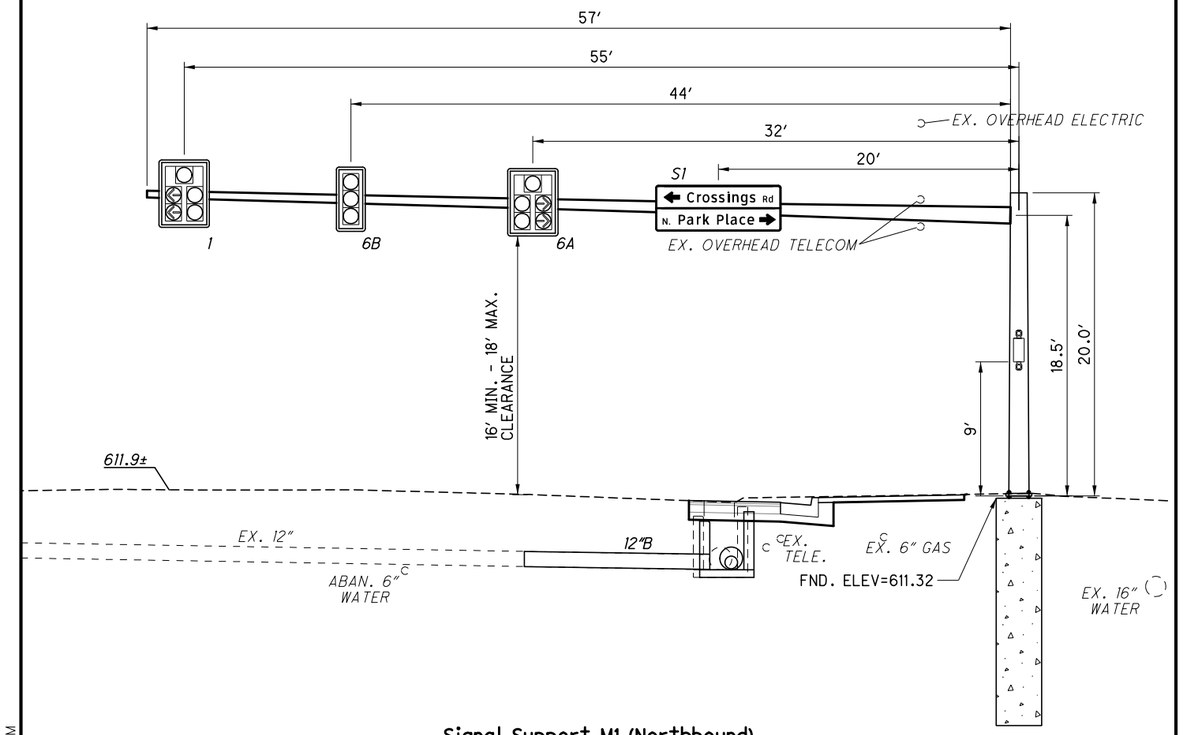
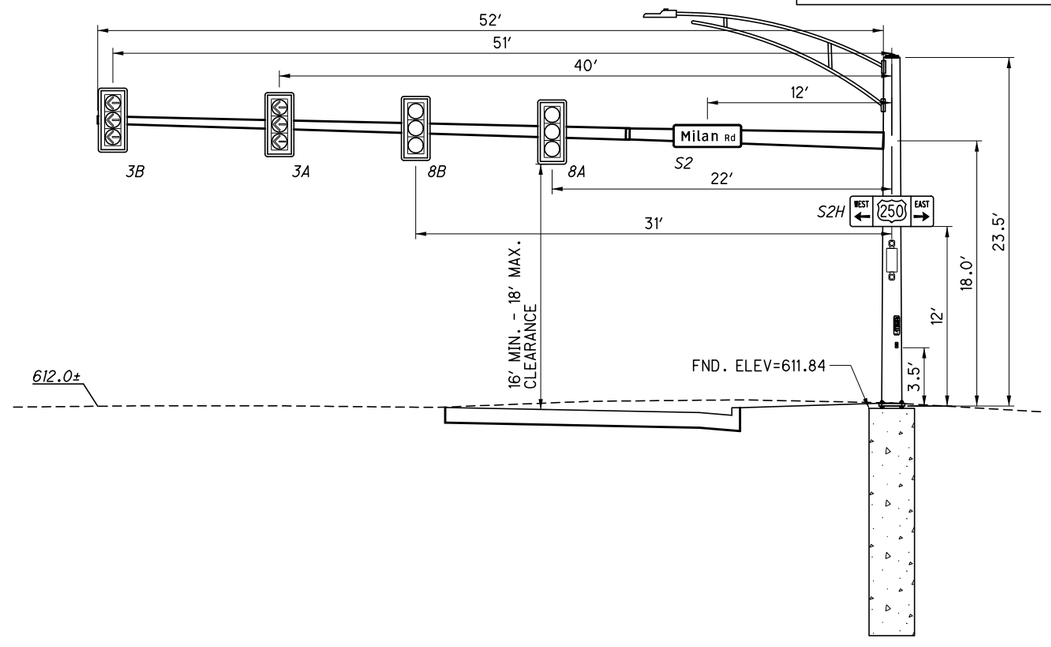
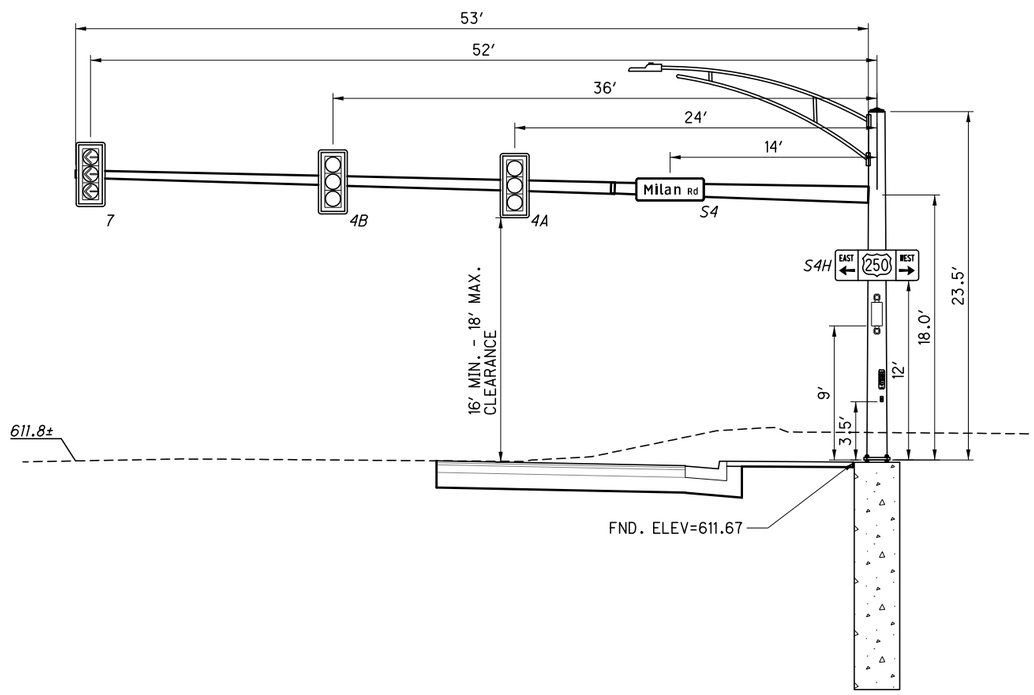


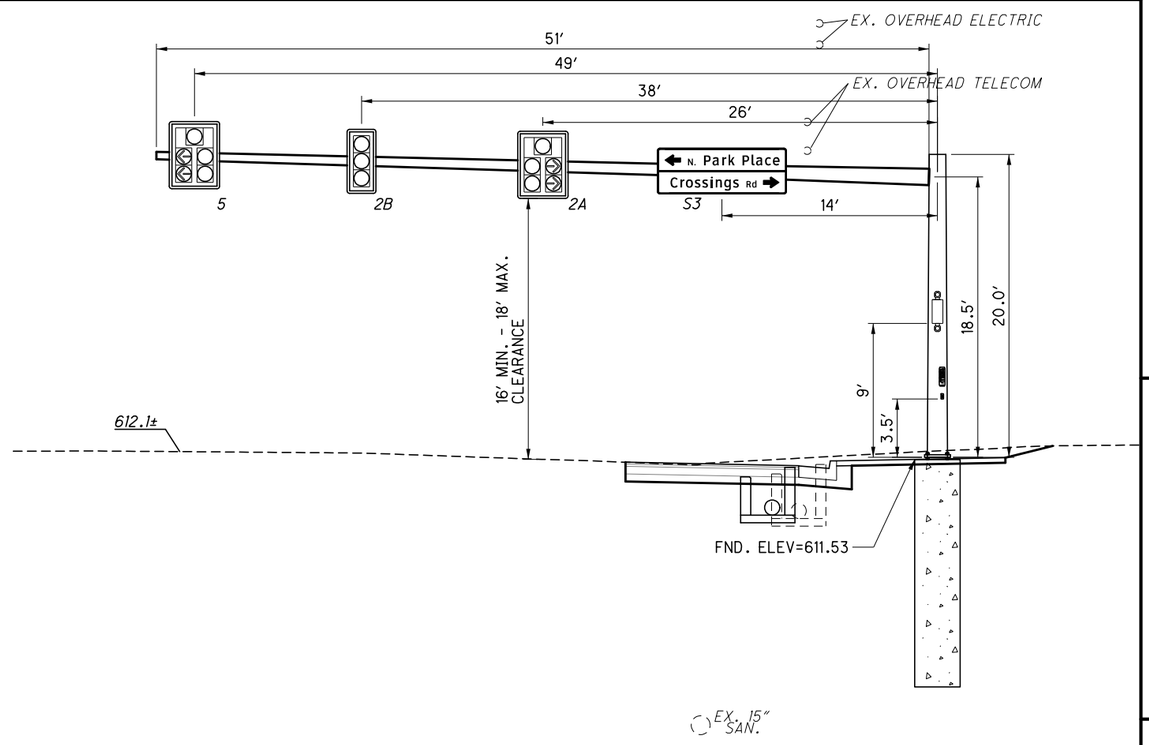
Signal Support M1 (Northbound)



Comb. Signal Support M2 (Eastbound)



Comb. Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT CROSSINGS ROAD

ERI-250-0.00

467
677

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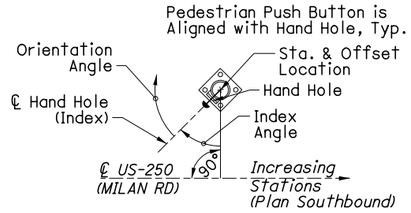
PEDESTAL ORIENTATION



Notes:

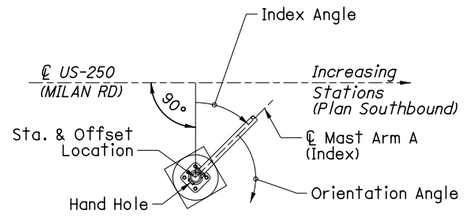
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
		FT				DEG	DEG	DEG	DEG	DEG
T5	181+09.9	-70.4	LT	611.57	8	30	0	239	0	-
T6	182+08.0	-63.1	LT	611.93	8	300	0	69	0	-
T7	181+96.9	66.9	RT	611.63	8	199	0	63	0	-
T8	180+96.6	66.4	RT	611.06	8	130	0	230	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	181+01.8	59.1	LT	13	20.0	18.5	0	-	-	270	55	-	-	-	-	180	-
M2	181+98.2	74.4	LT	13	23.5	18.0	90	-	-	270	231	15	0	-	-	180	270
M3	182+07.0	56.0	RT	13	20.0	18.5	0	-	-	270	225	-	-	-	-	180	-
M4	181+05.4	76.6	RT	13	23.5	18.0	90	-	-	270	236	15	0	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT CROSSINGS ROAD

ERI-250-0.00

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PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

T6, STA. 188+59.9, 49.0' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
GAS & TELEPHONE IN CLOSE PROXIMITY

C3, 7' CONDUIT, 1-¼", 725.051
C2, 19' CONDUIT, 3", 725.051

M1, STA. 188+57.5, 57.6' LT.
SIGNAL SUPPORT, TYPE TC-81.21
DESIGN 13, AS PER PLAN, ARM 56'

B1, STA. 188+57.4, 42.9' LT.
PULL BOX, 8", 725.08

C1, 11' CONDUIT, 1-¼", 725.051

T5, STA. 188+46.3, 43.4' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

M2, STA. 189+16.2, 54.7' LT.
SIGNAL SUPPORT, TYPE TC-81.21
DESIGN 1, AS PER PLAN, ARM 18'

C4, 14' CONDUIT, 3", 725.051
B2, STA. 189+24.5, 42.9' LT
PULL BOX, 24", 725.08
C5, 6' CONDUIT, 1-¼", 725.051

T7, STA. 189+30.3, 43.0' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C6, 93' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

HARLEY DAVIDSON DRIVEWAY

TH 141

MILAN ROAD

FUN DRIVE

C13, 100' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

T9, STA. 188+37.3, 54.2' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C12, 5' CONDUIT, 1-¼", 725.051

B4, STA. 188+41.5, 56.4' RT
PULL BOX, 24", 725.08

C11, 11' CONDUIT, 3", 725.051

M4, STA. 188+49.3, 64.3' RT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 40', WITH LIGHT POLE EXTENSION, L4, 20' BRACKET ARM, LED

C32, 5' CONDUIT, 2", 725.051

B31, STA. 188+52.2, 67.9' RT.
PULL BOX, 24", 725.08

C10, 91' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

C31, 79' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

PROP. POWER SOURCE
POWER SERVICE, AS PER PLAN

M3, STA. 189+40.6, 46.1' RT.
SIGNAL SUPPORT, TYPE TC-81.21
DESIGN 11, AS PER PLAN, ARM 41'

STA. 189+39.8, 55.5' RT.
CONTROLLER, FOUNDATION AND WORK PAD, WITH BATTERY BACK UP SYSTEM

C7, 9' CONDUIT, 3", 725.051
C8, 11' CONDUIT, 4", 725.051

B3, STA. 189+32.6, 50.1' RT
PULL BOX, 24", 725.08
ELECTRIC & TELEPHONE IN CLOSE PROXIMITY

C9, 10' CONDUIT, 1-¼", 725.051
C30, 10' CONDUIT, 2", 725.051

EXISTING CONTROLLER

B30, STA. 189+31.4, 65.7' RT.
PULL BOX, 24", 725.08

T8, STA. 189+26.3, 57.7' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
ELECTRIC & TELEPHONE IN CLOSE PROXIMITY

SIGNAL HEADS

2A, 2B, 4A, 4B, 6A, 6B, 8A, 8B

1, 5

USE CUT AWAY VISORS

W5-W9, W2H-W4H

SIGNS

P2H, P7, P3H, P8, P4H, P9
R10-3E-9
24"x9"

P5, P6
R10-3E-9
24"x9"

Milan Rd
S2, S4
D3-1
54" x 18"

Fun Dr →
S3
D3-1
60" x 18"

← Fun Dr
S1
D3-1
60" x 18"

NOTE:

FOR ROADWAY PLANS SEE SHEET - 159, 259
FOR PAVEMENT MARKING PLANS SEE SHEET - 374
FOR SIGNING PLANS SEE SHEET - 397
FOR OVERHEAD SIGNS SEE SHEETS - 412 & 413

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT FUN DRIVE
ERI-250-0.00

469
677

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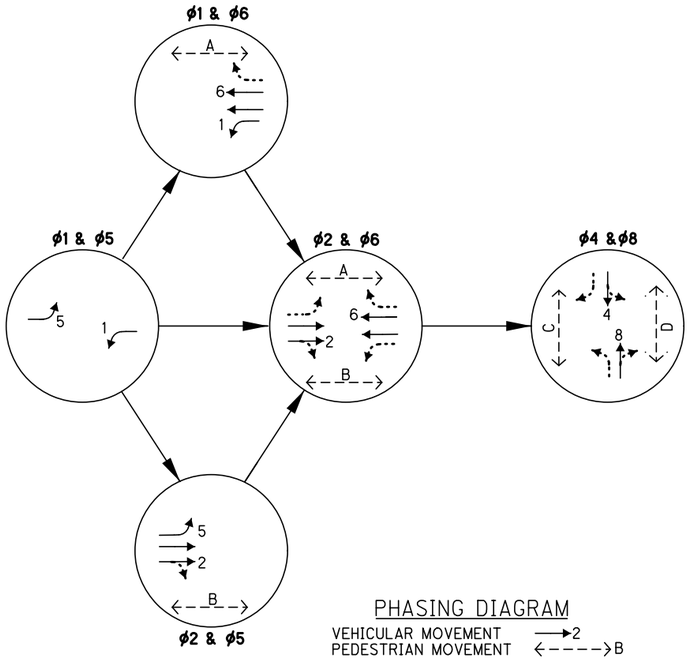

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1, 5
DURING: ϕ 2, 6 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND FUN DR.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	20.0	-	10.0	7.0	20.0	-	10.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	3.0	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	15.0	60.0	-	25.0	15.0	60.0	-	25.0
MAXIMUM GREEN II	(SEC)	15.0	60.0	-	25.0	15.0	60.0	-	25.0
YELLOW CHANGE	(SEC)	3.9	3.9	-	3.0	3.9	3.9	-	3.0
ALL RED CLEARANCE	(SEC)	1.4	1.7	-	2.9	1.7	1.4	-	3.3
WALK	(SEC)	-	6.0	-	7.0	-	5.0	-	7.0
PEDESTRIAN CLEARANCE	(SEC)	-	18.3	-	25.1	-	10.9	-	22.6
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			FUN DRIVE	
625	160	FT	4" CONDUIT, TYPE E	
625	1	EACH	CONNECTOR KIT, TYPE II	
625	1	EACH	CONNECTOR KIT, TYPE III	
625	1	EACH	BRACKET ARM, 20', AS PER PLAN	
625	378	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	159	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	39	FT	CONDUIT, 1-1/4", 725.051	
625	15	FT	CONDUIT, 2", 725.051	
625	53	FT	CONDUIT, 3", 725.051	
625	11	FT	CONDUIT, 4", 725.051	
625	363	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	1	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	118	FT	TRENCH	
625	6	EACH	PULL BOX, 725.08, 24"	
625	13	EACH	GROUND ROD	
625	118	FT	PLASTIC CAUTION TAPE	
632	8	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	1575	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	464	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	5	EACH	PEDESTAL FOUNDATION	
632	1181	FT	LOOP DETECTOR LEAD-IN CABLE	
632	98	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	26	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 1 (ALTERNATE BID)*	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	5	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	5	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENOR ADVANCE	
809	4	EACH	STOP-BAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT FUN DRIVE

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	STOP BAR	PRESENCE	-	-	-	6
RS1	A, B	SIDEROAD ALL	PRESENCE	-	-	-	4
RS3	A, B	SIDEROAD ALL	PRESENCE	-	-	-	8

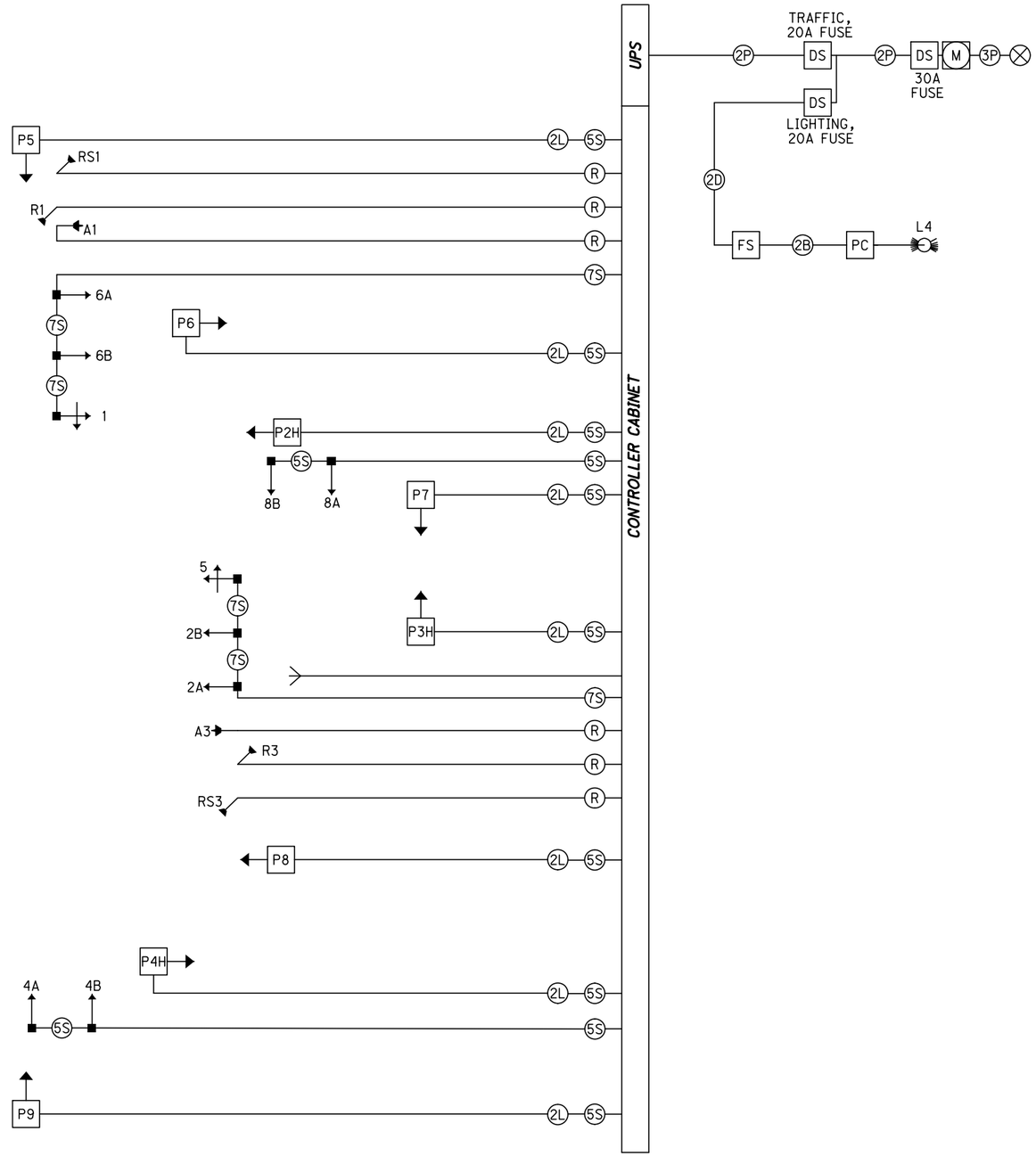
** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
1 (NBLT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- Y	ϕ 1 Y	
	<- G	ϕ 1 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
2A, 2B (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
5 (SBLT)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	<- Y	ϕ 5 Y	
	<- G	ϕ 5 G	
4A, 4B (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W6, W2H PED A	W	LS 9 ϕ 6 G	OUT
	DW	LS 9 ϕ 6 R	
W4H, W8 PED B	W	LS 10 ϕ 2 G	OUT
	DW	LS 10 ϕ 2 R	
W5, W9 PED C	W	LS 11 ϕ 4 G	OUT
	DW	LS 11 ϕ 4 R	
W3H, W7 PED D	W	LS 12 ϕ 8 G	OUT
	DW	LS 12 ϕ 8 R	

LS = LOAD SWITCH



CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL WIRING

US-250 (MILAN ROAD) AT FUN DRIVE

ERI-250-0.00

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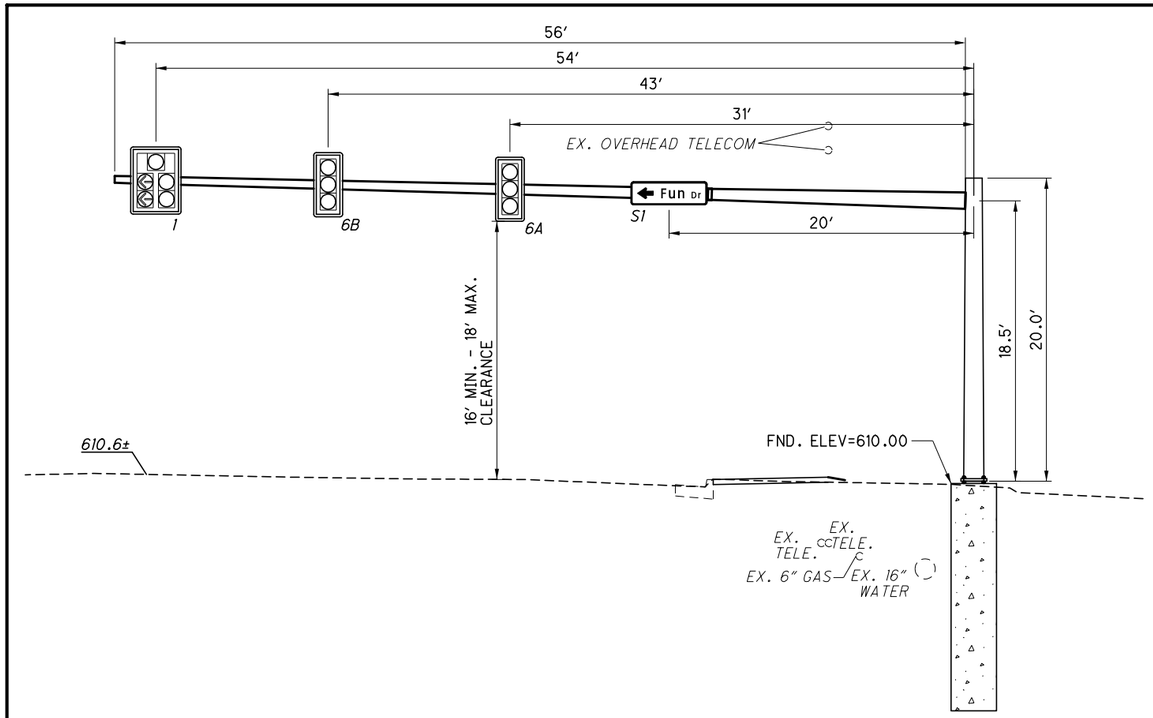
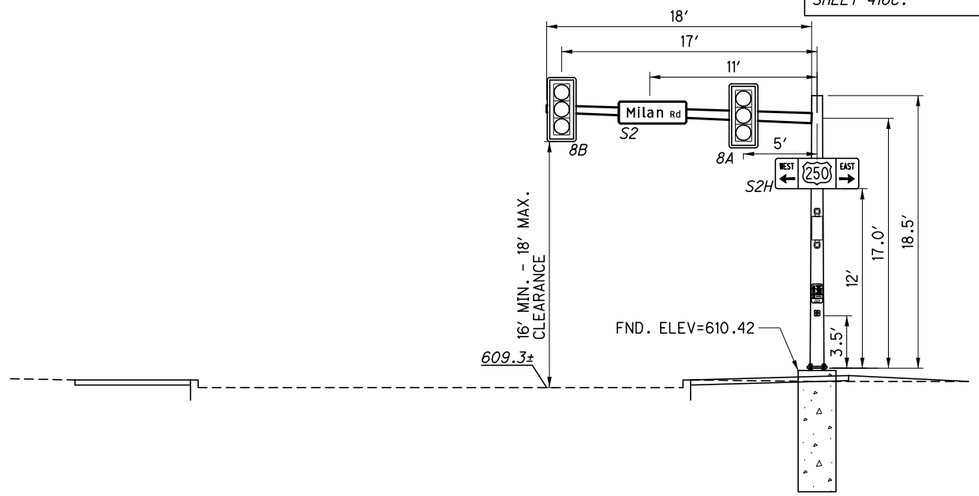
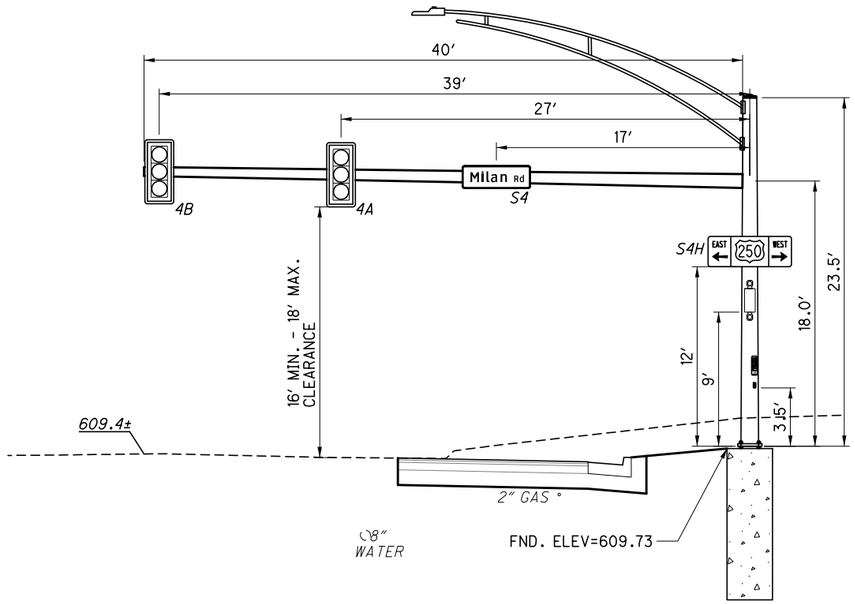


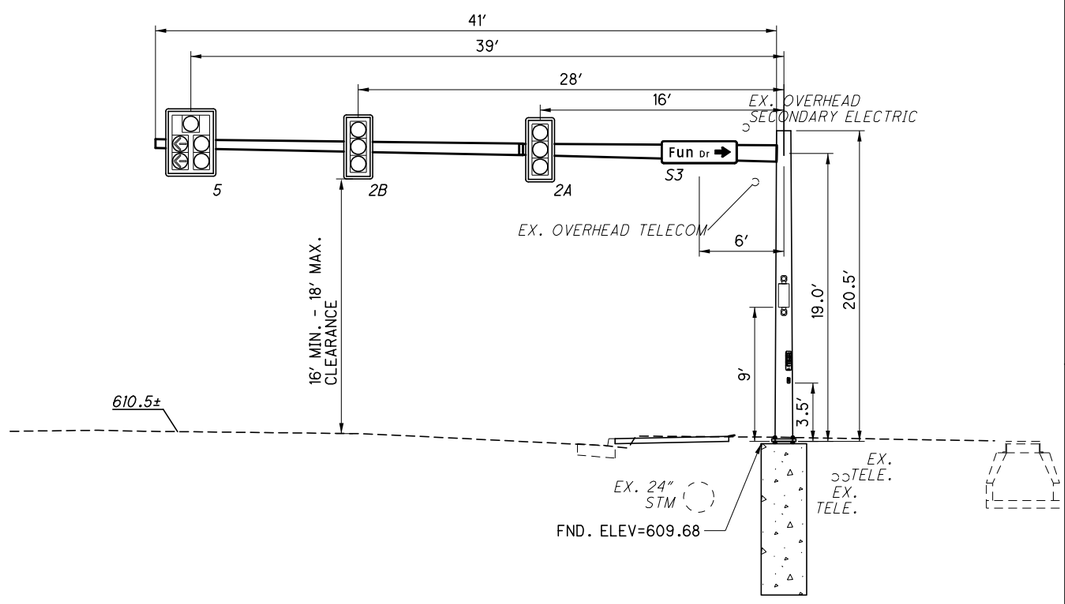
Signal Support M1 (Northbound)



Signal Support M2 (Eastbound)



Comb. Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT FUN DRIVE

ERI-250-0.00

472
677

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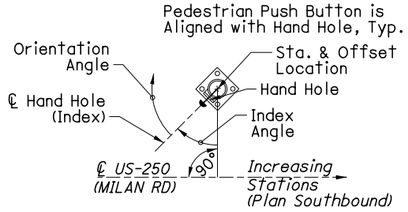
PEDESTAL ORIENTATION



Notes:

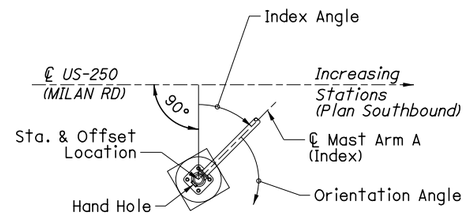
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
		FT				DEG	DEG	DEG	DEG	DEG
T5	188+46.3	-43.4	LT	610.60	8	270	0	91	0	-
T6	188+59.9	-49.0	LT	610.46	8	1	0	271	0	-
T7	189+30.3	-43.0	LT	610.38	8	271	0	88	0	-
T8	189+26.3	57.7	RT	609.32	8	207	0	63	0	-
T9	188+37.3	54.2	RT	609.87	8	292	0	69	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	188+45.3	57.6	LT	13	20.0	18.5	0	-	-	-	-	-	-	-	-	180	-
M2	189+16.2	54.7	LT	1	18.5	17.0	90	-	-	270	270	-	-	-	-	180	270
M3	189+40.6	46.1	RT	11	20.5	19.0	0	-	-	270	245	-	-	-	-	180	-
M4	188+49.3	64.3	RT	11	23.5	18.0	90	-	-	270	234	20	0	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT FUN DRIVE

ERI-250-0.00

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PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

SIGNAL HEADS

W5-W11, WIH-W3H

2, 4A, 4B, 4H, 6A, 6B, 6H, 8A, 8B, 8H

1, 5

CUT AWAY VISORS

M1, STA. 195+21.6, 32.6' LT. COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 4, AS PER PLAN, ARM 31', WITH LIGHT POLE EXTENSIONS, L1A, 15' BRACKET ARM, L1B, 15' BRACKET ARM, LED, AND SIDE ARM SIGNAL, 4H

C5, 16' CONDUIT, 3", 725.051

T6, STA. 195+12.4, 36.5' LT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C3, 7' CONDUIT, 1-1/4", 725.051

T7, STA. 195+07.8, 32.0' LT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C30, 3' CONDUIT, 2", 725.051

B30, STA. 195+24.8, 32.6' LT. PULL BOX, 24", 725.08

C36, 96' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

T5, STA. 194+86.4, 66.3' LT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C1, 9' CONDUIT, 1-1/4", 725.051

B1, STA. 194+79.2, 61.1' LT. PULL BOX, 24", 725.08

C2, 38' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

B2, STA. 195+05.8, 33.7' LT. PULL BOX, 24", 725.08

M2, STA. 195+89.6, 63.3' LT. COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 44' WITH LIGHT POLE EXTENSION, L2, 15' BRACKET ARM, LED, AND SIDE ARM SIGNAL, 6H

C31, 10' CONDUIT, 2", 725.051

C6, 6' CONDUIT, 3", 725.051

B31, STA. 195+99.2, 63.3' LT. PULL BOX, 24", 725.08

B3, STA. 195+95.1, 60.1' LT. PULL BOX, 24", 725.08

SOUTH PARK PLACE

MILAN ROAD

BAY WINDS DRIVE

S 37° 08' 11" E

C4, 3' CONDUIT, 1-1/4", 725.051

C18, 84' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

PROP. POWER SOURCE

POWER SERVICE, AS PER PLAN

C36, 96' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

T11, STA. 195+15.1, 43.6' RT PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C17, 14' CONDUIT, 1-1/4", 725.051

B7, STA. 195+28.4, 47.4' RT. PULL BOX, 24", 725.08

C16, 24' CONDUIT, 3", 725.051

T10, STA. 195+36.0, 59.8' RT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C35, 11' CONDUIT, 3", 725.051

C15, 7' CONDUIT, 1-1/4", 725.051

B6, STA. 195+39.8, 65.1' RT. PULL BOX, 24", 725.08

STA. 195+37.6, 69.2' RT CONTROLLER, FOUNDATION AND WORK PAD, WITH BATTERY BACK UP SYSTEM

C14, 4' CONDUIT, 4", 725.051

C13, 3' CONDUIT, 3", 725.051

M4, STA. 195+42.1, 66.9' RT. COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 2, AS PER PLAN, ARM 31', WITH LIGHT POLE EXTENSION, L4, 20' BRACKET ARM AND LED

C34, 7' CONDUIT, 2", 725.051

B33, STA. 195+45.4, 60.7' RT. PULL BOX, 24", 725.08

C33, 56' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"

EXISTING CONTROLLER

C7, 107' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

C32, 105' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

T9, STA. 196+42.2, 53.6' RT PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C11, 57' CONDUIT, 1-1/4", 725.051

T8, STA. 196+02.5, 35.3' RT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

B5, STA. 196+23.2, 63.9' RT. PULL BOX, 24", 725.08

C10, 22' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

C9, 34' CONDUIT, 1-1/4", 725.051

B32, STA. 195+98.3, 42.2' RT. PULL BOX, 24", 725.08

M3, STA. 195+96.0, 40.9' RT. SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 3 AS PER PLAN, ARM 36' AND SIDE ARM SIGNAL, 8H

C8, 6' CONDUIT, 3", 725.051

B4, STA. 195+94.2, 46.8' RT. PULL BOX, 24", 725.08

C12, 57' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

SIGNS

Milan Rd
S2, S4
D3-1
54" x 18"

Bay Winds
s. Park Pl
S1
D3-1
102" x 36"

s. Park Pl
Bay Winds
S3
D3-1
102" x 36"

P6, P7, P1H, P2H, P9, P11
R10-3E-9
24"x9"

P5, P8, P3H, P10
R10-3E-9
24"x9"

NOTE:

FOR ROADWAY PLANS SEE SHEET - 160, 262
FOR PAVEMENT MARKING PLANS SEE SHEET - 375
FOR SIGNING PLANS SEE SHEET - 398
FOR OVERHEAD SIGNS SEE SHEETS - 412 & 414

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT BAY WINDS DRIVE

ERI-250-0.00

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677

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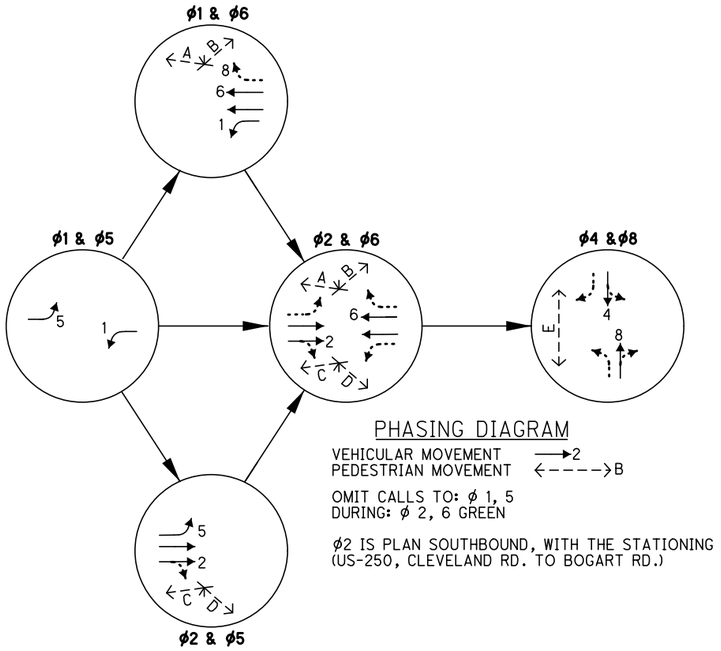

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1, 5
DURING: ϕ 2, 6 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND BAY WINDS DR.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	20.0	-	10.0	7.0	20.0	-	10.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	3.0	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	15.0	60.0	-	25.0	20.0	60.0	-	20.0
MAXIMUM GREEN II	(SEC)	15.0	60.0	-	25.0	20.0	60.0	-	20.0
YELLOW CHANGE	(SEC)	3.9	3.9	-	3.0	3.9	3.9	-	3.0
ALL RED CLEARANCE	(SEC)	1.5	2.2	-	3.3	2.2	1.5	-	3.5
WALK	(SEC)	-	5.0	-	6.0	-	6.0	-	-
PEDESTRIAN CLEARANCE	(SEC)	-	13.7	-	19.4	-	18.0	-	-
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			BAY WINDS DRIVE	
625	220	FT	4" CONDUIT, TYPE E	
625	3	EACH	CONNECTOR KIT, TYPE II	
625	3	EACH	CONNECTOR KIT, TYPE III	
625	3	EACH	BRACKET ARM, 15', AS PER PLAN	
625	1	EACH	BRACKET ARM, 20', AS PER PLAN	
625	1218	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	570	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	77	FT	CONDUIT, 1-1/4", 725.051	
625	20	FT	CONDUIT, 2", 725.051	
625	66	FT	CONDUIT, 3", 725.051	
625	4	FT	CONDUIT, 4", 725.051	
625	577	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	4	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	167	FT	TRENCH	
625	11	EACH	PULL BOX, 725.08, 24"	
625	15	EACH	GROUND ROD	
625	167	FT	PLASTIC CAUTION TAPE	
632	10	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	10	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	10	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	10	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	2172	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	374	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	7	EACH	PEDESTAL FOUNDATION	
632	1329	FT	LOOP DETECTOR LEAD-IN CABLE	
632	80	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 3 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 2 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 4 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	7	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	7	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT BAY WINDS DRIVE

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	STOP BAR	PRESENCE	-	-	-	6
RS1	A, B	SIDEROAD ALL	PRESENCE	-	-	-	4
RS3	A, B	SIDEROAD ALL	PRESENCE	-	-	-	8

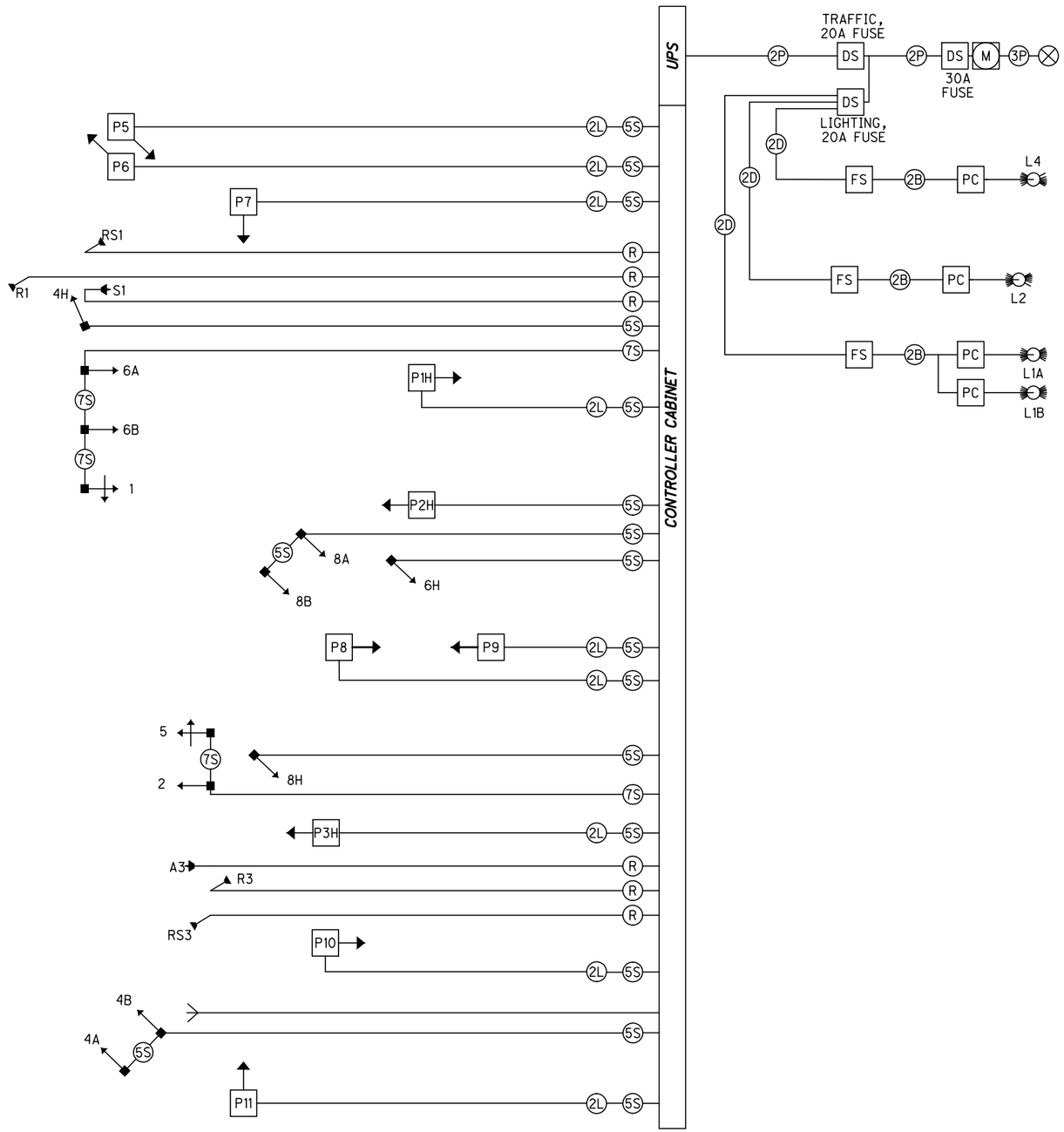
** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
1 (NBLT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- Y	ϕ 1 Y	
	<- G	ϕ 1 G	
4H (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
6H (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
5 (SBLT)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
	<- Y	ϕ 5 Y	
	<- G	ϕ 5 G	
2 (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
8H (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
4A, 4B (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	

PEDESTRIAN MOVEMENTS			
W5, W6	W	LS 9 ϕ 6 G	OUT
PED A	DW	LS 9 ϕ 6 R	
W1H, W2H	W	LS 10 ϕ 6 G	OUT
PED B	DW	LS 10 ϕ 6 R	
W10, W3H	W	LS 11 ϕ 2 G	OUT
PED C	DW	LS 11 ϕ 2 R	
W8, W9	W	LS 11 ϕ 2 G	OUT
PED D	DW	LS 11 ϕ 2 R	
W7, W11	W	LS 12 ϕ 4 G	OUT
PED E	DW	LS 12 ϕ 4 R	

LS = LOAD SWITCH



CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250 (MILAN ROAD) AT BAY WINDS DRIVE

ERI-250-0.00

476
677

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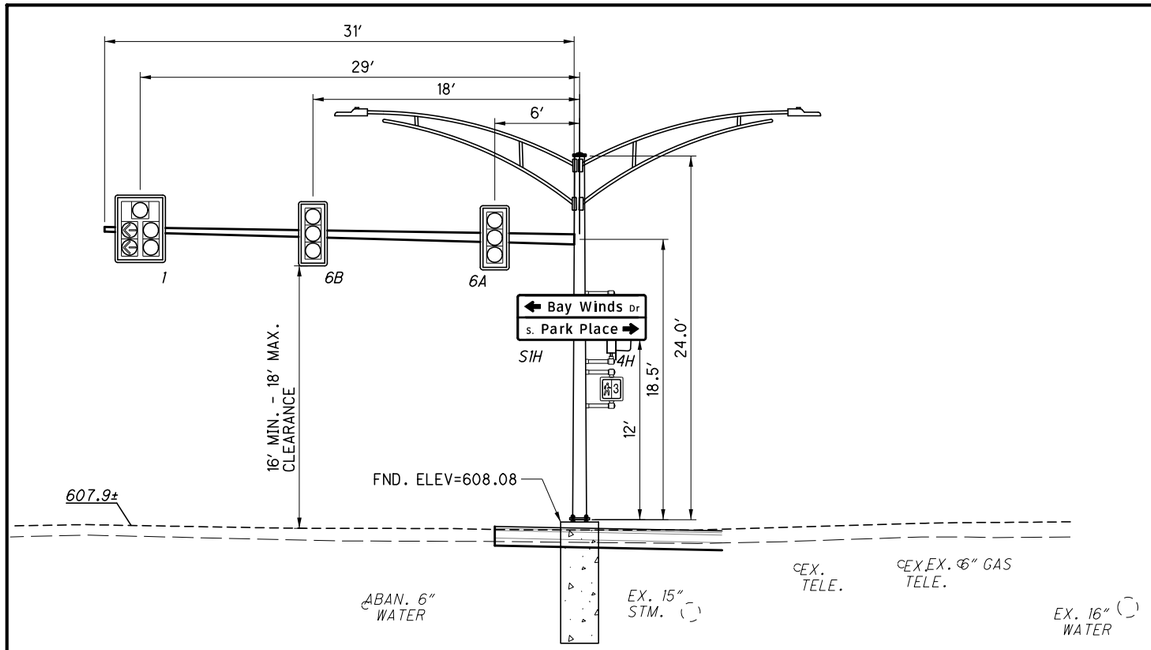
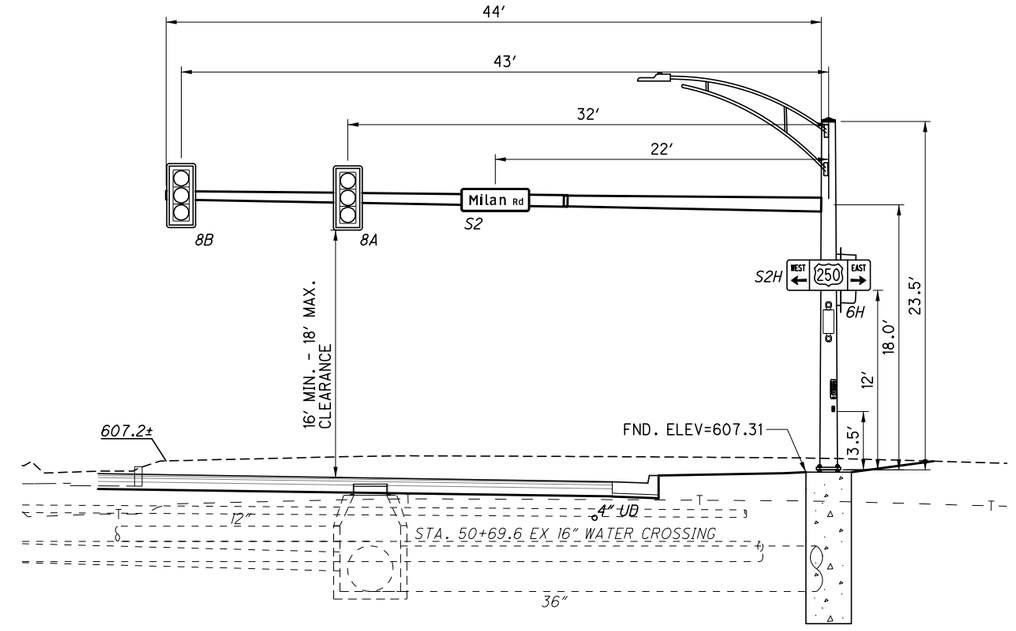
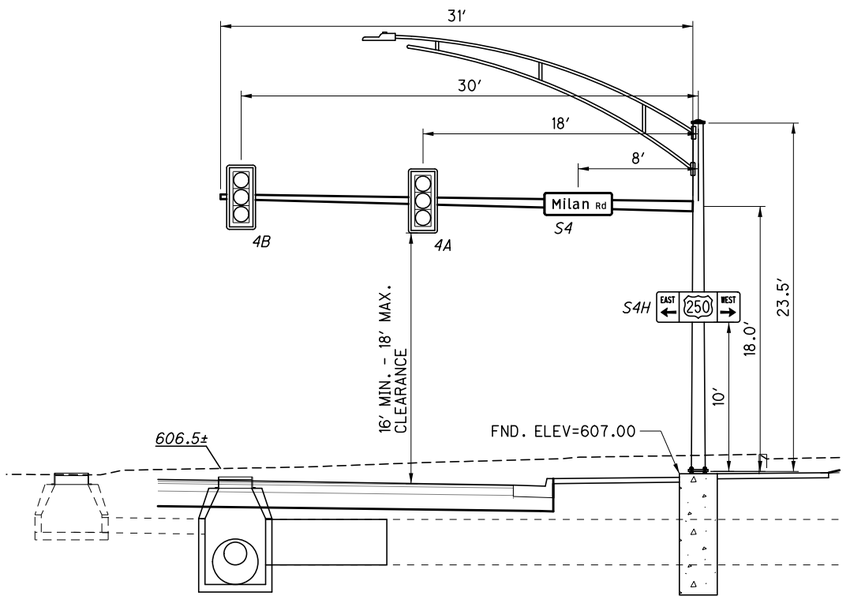


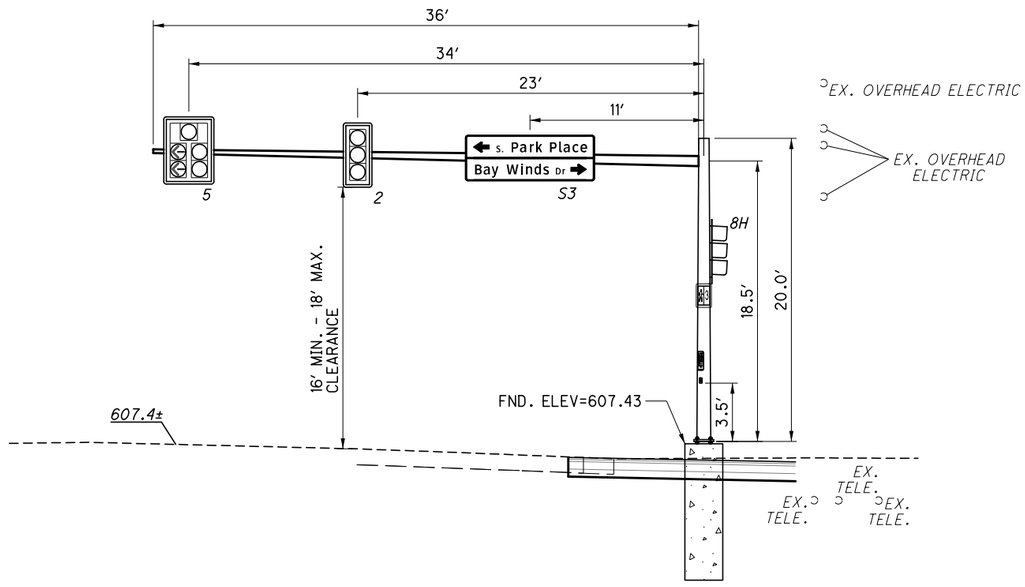
Comb. Signal Support M1 (Northbound)



Comb. Signal Support M2 (Eastbound)



Comb. Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

EX. 15" SAN.

Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.

SCALE IN FEET
0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT BAY WINDS DRIVE

ERI-250-0.00

477
677

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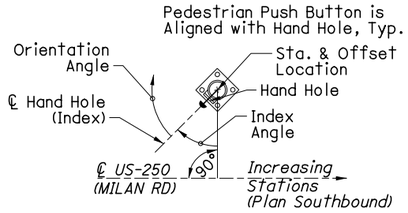
PEDESTAL ORIENTATION



Notes:

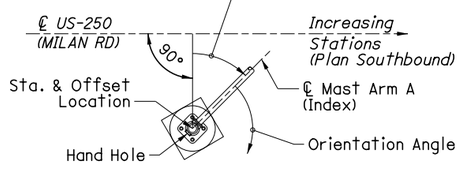
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
		FT				DEG	DEG	DEG	DEG	DEG
T5	194+86.4	-66.3	LT	607.80	8	55	0	267	0	-
T6	195+12.4	-36.5	LT	608.12	8	53	0	89	0	-
T7	195+07.8	-32.0	LT	608.13	8	270	0	90	0	-
T8	196+02.5	35.3	RT	607.14	8	216	0	244	0	-
T9	196+42.2	53.6	RT	606.06	8	246	0	42	0	-
T10	195+36.0	59.8	RT	606.70	8	132	0	297	0	-
T11	195+15.1	43.6	RT	607.39	8	196	0	164	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	195+21.6	32.6	LT	4	24.0	18.5	0	-	180	180	165	15	0	15	135	180	270
M2	195+89.6	63.3	LT	11	23.5	18.0	76	-	270	270	222	15	315	-	-	180	270
M3	195+96.0	40.9	RT	3	20.0	18.5	0	-	90	270	343	-	-	-	-	180	-
M4	195+42.1	66.9	RT	2	23.5	18.0	69	-	-	-	-	20	0	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT BAY WINDS DRIVE

ERI-250-0.00

478
677

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 162, 268
FOR PAVEMENT MARKING PLANS SEE SHEET - 375
FOR SIGNING PLANS SEE SHEET - 398
FOR OVERHEAD SIGNS SEE SHEETS - 412

PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
TR	PULL BOX (B)	TR
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	CCTV IP-CAMERA SYSTEM	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

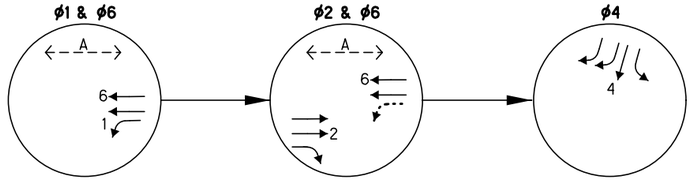
CALCULATED LMZ
CHECKED GAB

T5, STA. 202+26.5, 69.4' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN

C2, 9' CONDUIT, 1-¼", 725.051
B1, STA. 202+18.4, 66.2' LT
PULL BOX, 24", 725.08
C1, 5' CONDUIT, 3", 725.051
M1, STA. 202+13.9, 65.2' LT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 13, AS PER PLAN, ARM 57', CCTV IP-CAMERA SYSTEM, DOME-TYPE

C3, 110' CONDUIT JACKED OR D RILLED, AS PER PLAN, 3"
B2, STA. 203+28.6, 64.2' LT
PULL BOX, 24", 725.08
C4, 5' CONDUIT, 1-¼", 725.051
T6, STA. 203+30.3, 59.5' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C5, 107' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"

WB EXIT RAMP
EXISTING CONTROLLER
MILAN ROAD
WB ENTRANCE RAMP
DO NOT DISTURB DOWN GUYS
2" SERVICE
Ex SH
Ex LA
Ex LT
Ex LA
Ex LA
Ex LA



PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

OMIT CALLS TO: ϕ 1
DURING: ϕ 2 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND WB SR-2 RAMP
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	10.0	20.0	-	10.0	-	20.0	-	-
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	-	4.0	-	4.0	-	-
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	20.0	60.0	-	40.0	-	60.0	-	-
MAXIMUM GREEN II	(SEC)	20.0	60.0	-	40.0	-	60.0	-	-
YELLOW CHANGE	(SEC)	3.9	3.9	-	3.9	-	3.9	-	-
ALL RED CLEARANCE	(SEC)	2.3	2.0	-	2.0	-	2.3	-	-
WALK	(SEC)	-	-	-	-	-	7.0	-	-
PEDESTRIAN CLEARANCE	(SEC)	-	-	-	-	-	29.3	-	-
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			SR-2 WB RAMP	
625	80	FT	4" CONDUIT, TYPE E	
625	1	EACH	CONNECTOR KIT, TYPE II	
625	1	EACH	CONNECTOR KIT, TYPE III	
625	2	EACH	BRACKET ARM, 20', AS PER PLAN	
625	108	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	267	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	34	FT	CONDUIT, 1-1/4", 725.051	
625	14	FT	CONDUIT, 2", 725.051	
625	20	FT	CONDUIT, 3", 725.051	
625	217	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	2	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	68	FT	TRENCH	
625	4	EACH	PULL BOX, 725.08, 24"	
625	9	EACH	GROUND ROD	
625	68	FT	PLASTIC CAUTION TAPE	
632	10	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	2	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	11	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	2	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	2	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	1051	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	330	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	2	EACH	SIGNAL SUPPORT FOUNDATION	
632	3	EACH	PEDESTAL FOUNDATION	
632	419	FT	LOOP DETECTOR LEAD-IN CABLE	
632	179	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-12.30 DESIGN 5 POLE, WITH MAST ARMS TC-81.21 DESIGN 11 AND DESIGN 4, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC 12.30, DESIGN 5, WITH MAST ARMS TC-81.21 DESIGN 11 AND DESIGN 4 (ALTERNATE BID)*	
632	3	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	3	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	CCTV IP-CAMERA, DOME TYPE	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	3	EACH	STOP-BAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT SR-2 WB RAMPS

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE	CC — CCTV IP-CAMERA & CABLE	2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION WITH ARROWS*

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	A, B	EXIT *	PULSE	-	-	-	
R1	C, D	THRU	PRESENCE	-	-	-	2
R3	A, B	EXIT	PULSE	-	-	-	
R3	E	EXIT *	PRESENCE	-	-	-	1
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	A, B, C, D	SIDEROAD ALL	PRESENCE	-	-	-	4

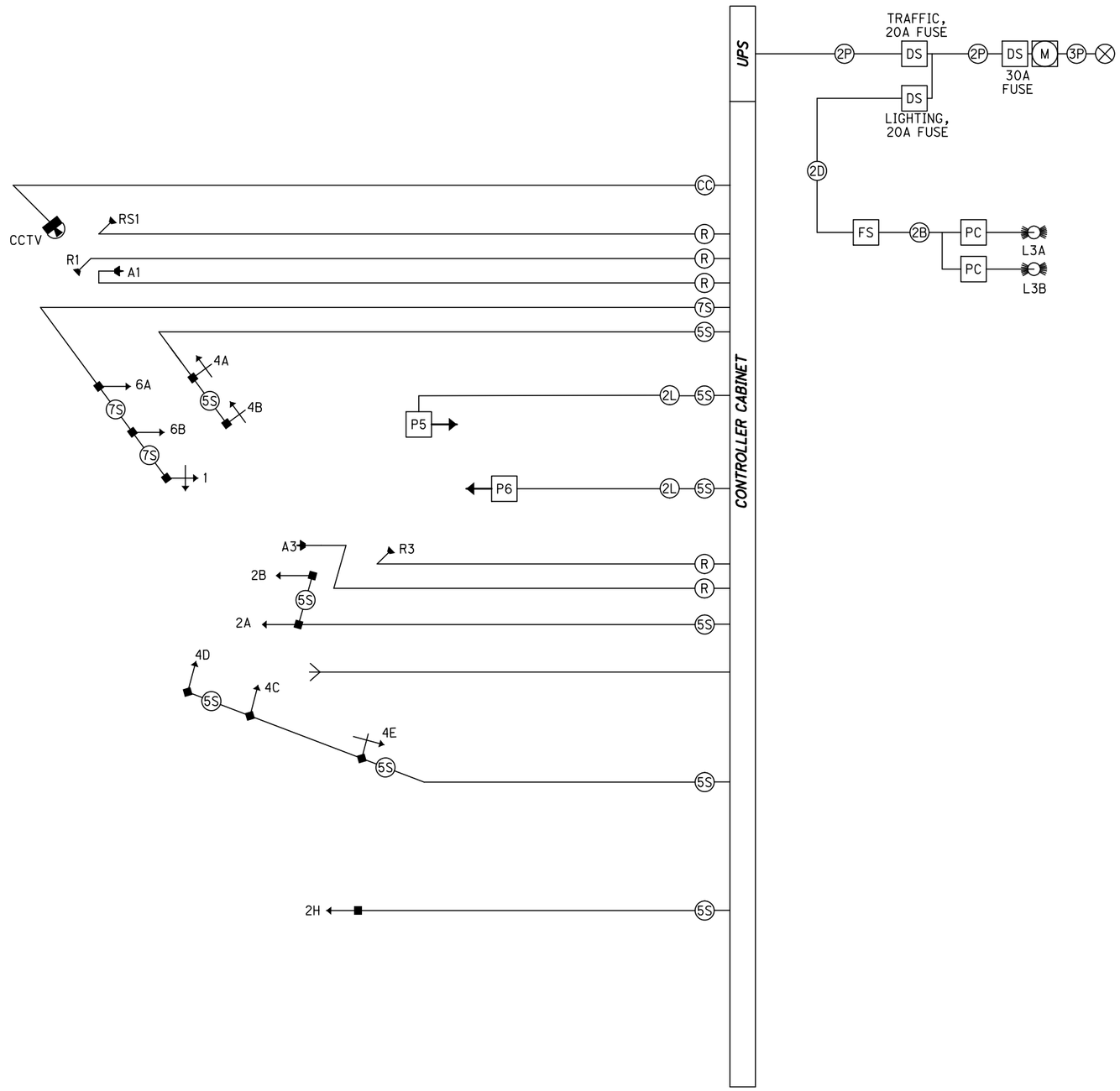
** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A, 6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
1 (NBLT)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
	<- Y	ϕ 1 Y	
	<- G	ϕ 1 G	
2A, 2B (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
2H (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
4E (WBLT)	<- R	ϕ 4 R	<- R
	<- Y	ϕ 4 Y	
	<- G	ϕ 4 G	
4C, 4D (WB)	R	ϕ 4 R	R
	Y	ϕ 4 Y	
	G	ϕ 4 G	
4B, 4A (WBRT)	R-> R	ϕ 4 R	R
	Y ->	ϕ 4 Y	
	G ->	ϕ 4 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W5, W6 PED A	W	LS 9 ϕ 6 G	OUT
	DW	LS 9 ϕ 6 R	

LS = LOAD SWITCH



CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING

US-250 (MILAN ROAD) AT SR-2 WB RAMPS

ERI-250-0.00

481 / 677

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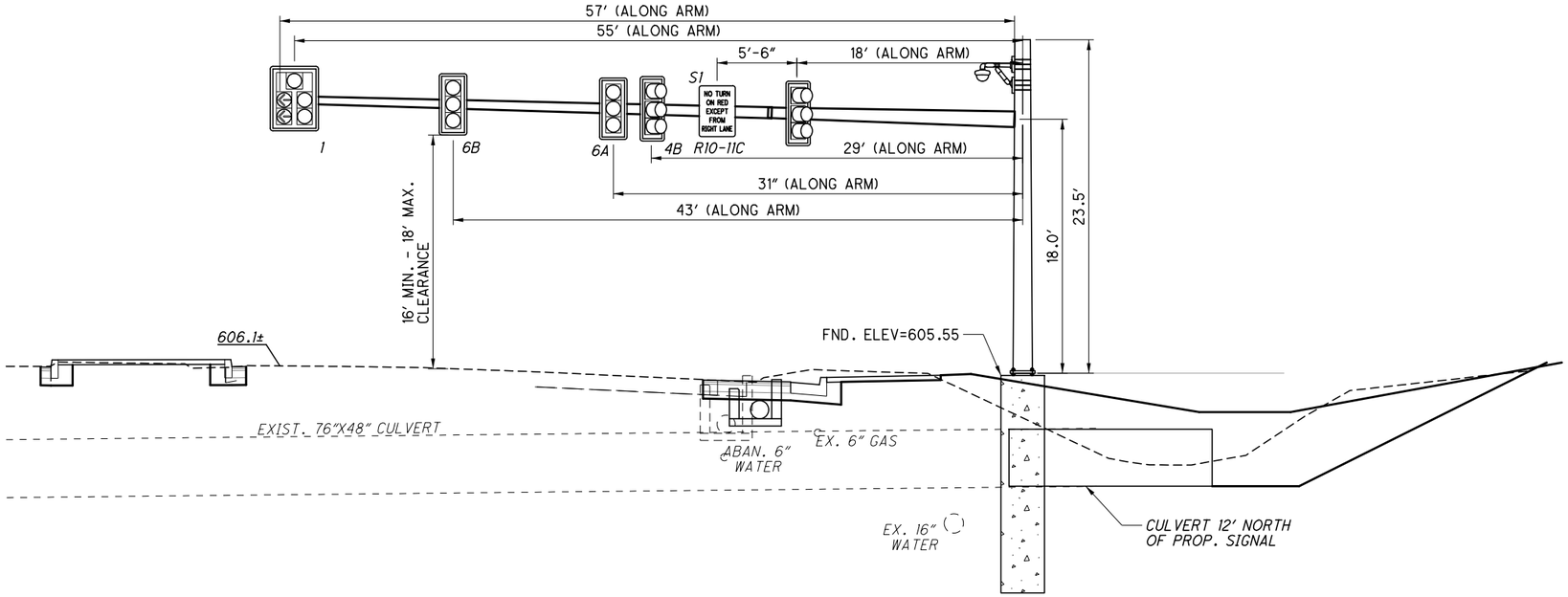
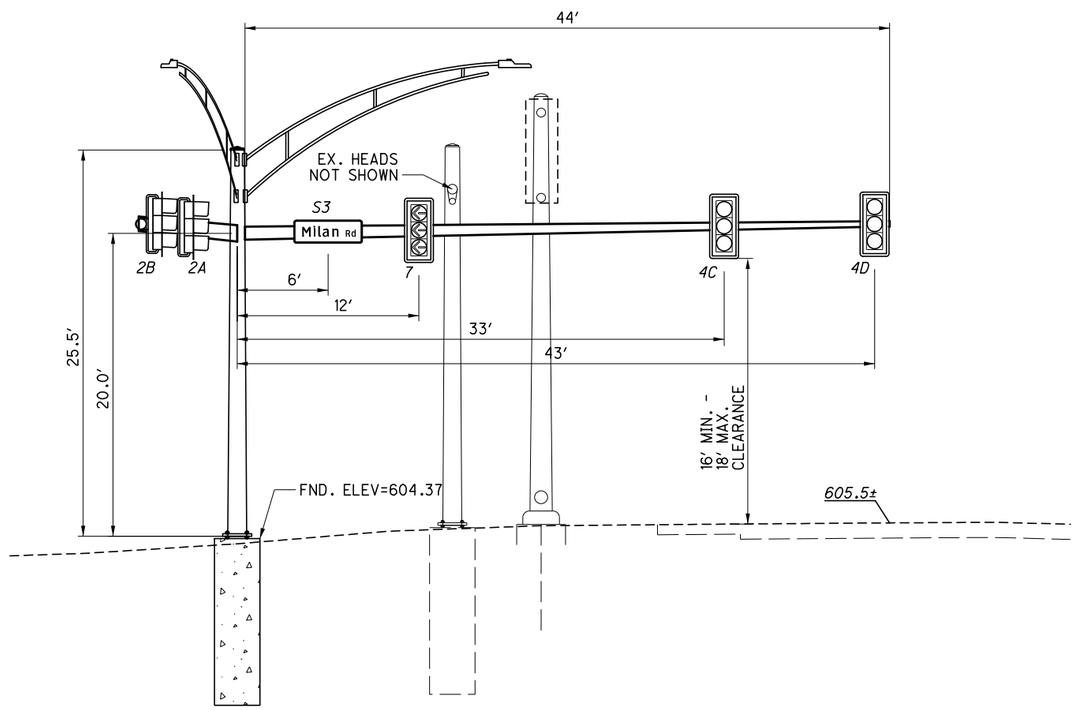
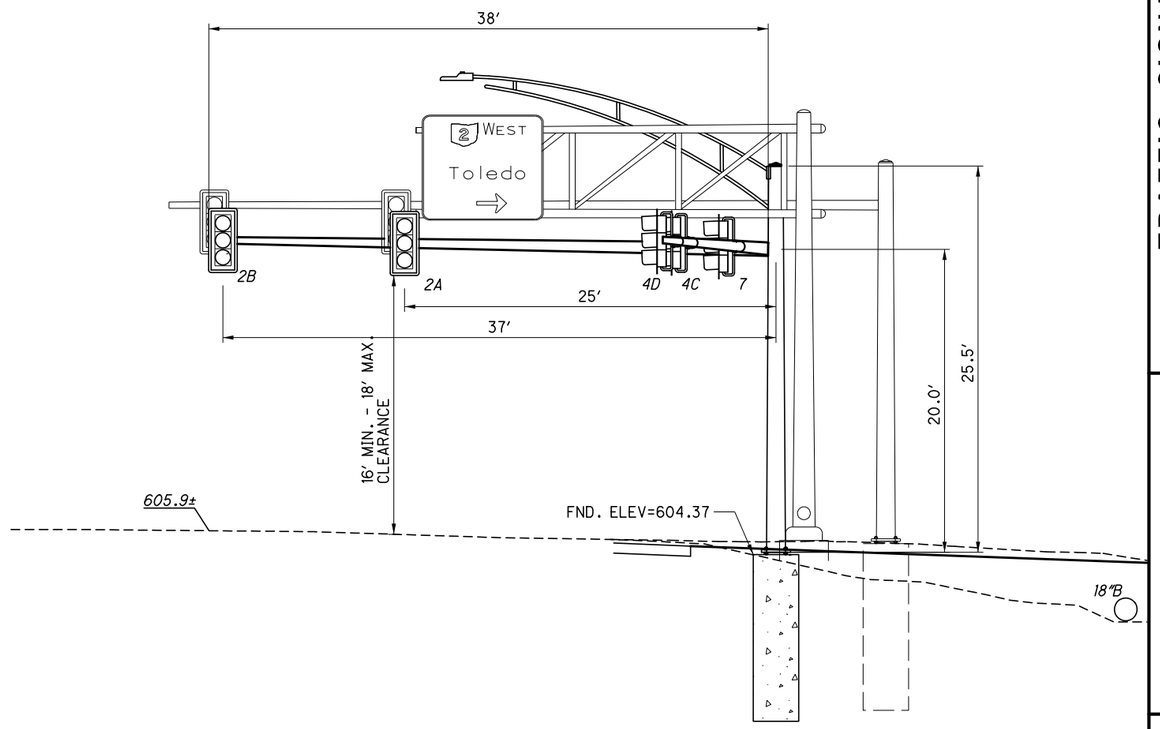
Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.



Signal Support M1 (Northbound)



Comb. Signal Support M3 (Westbound) (ARM-B)



Comb. Signal Support M3 (Southbound) (ARM-A)

SCALE IN FEET
0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT SR-2 WB RAMPS

ERI-250-0.00

482
677

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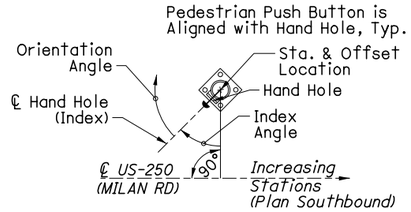
PEDESTAL ORIENTATION



Notes:

1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

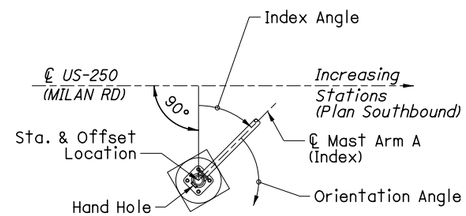
PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	202+26.5	-69.4	LT	605.35	8	64	0	207	0	-
T6	203+30.3	-59.5	LT	605.32	8	0	0	90	0	-
T7	202+84.9	51.5	RT	605.37	15	90	0	-	-	180*

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

* TO 1-1/2" BLIND HALF COUPINGS WELDED INTO THE POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk. This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-12.30 OR TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	CCTV IP-CAMERA
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	202+13.9	65.2	LT	13	23.5	18.0	335	-	-	-	-	-	-	-	-	180	0
M3	203+05.0	45.5	RT	4*	25.5	20.0	10	-	-	-	-	20	0	20	225	180	-
				11*	25.5	20.0	-	270	-	-	-	-	-	-	-	-	-

* TC-12.30 Design 5 Pole

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT SR-2 WB RAMPS

ERI-250-0.00

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 164
FOR PAVEMENT MARKING PLANS SEE SHEET - 376
FOR SIGNING PLANS SEE SHEET - 399
FOR OVERHEAD SIGNS SEE SHEET - 412

PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
TR	PULL BOX (B)	TR
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	CCTV IP-CAMERA SYSTEM	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LMZ
CHECKED GAB

C3, 60' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
B1, STA. 212+73.1, 57.5' LT PULL BOX, 24", 725.08
C2, 4' CONDUIT, 2", 725.051
T5, STA. 212+69.4, 57.5' LT. PEDESTAL, 15', TRANSFORMER BASE, AS PER PLAN, AND SIDE ARM SIGNAL, 6H
C1, 15' CONDUIT, 3", 725.051
M1, STA. 212+60.3, 49.2' LT. SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 4, AS PER PLAN, ARM 38'
M2, STA. 213+29.2, 66.4' LT. SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 13, AS PER PLAN, ARM 52'
C4, 5' CONDUIT, 3", 725.051
B2, STA. 213+32.9, 62.6' LT. PULL BOX, 24", 725.08
C5, 19' CONDUIT, 1-1/4", 725.051
T6, STA. 213+49.9, 53.6' LT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C6, 61' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
EB ENTRANCE RAMP
EB EXIT RAMP
MILAN ROAD
BRUSH
TMP
EX SH
EX ASH
PROP. POWER SOURCE
B3, STA. 213+40.5, ℄ PULL BOX, 24", 725.08
POWER SERVICE, AS PER PLAN
M3, STA. 213+59.5, 51.8' RT. COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 41' WITH LIGHT POLE EXTENSION, L3, 20' BRACKET ARM, LED CCTV IP-CAMERA SYSTEM, DOME-TYPE
B4, STA. 213+45.9, 58.8' RT. PULL BOX, 24", 725.08
EXISTING CONTROLLER
C30, 6' CONDUIT, 2", 725.051
C10, 11' CONDUIT, 3", 725.051
STA. 213+52.5, 60.3' RT. CONTROLLER, FOUNDATION AND WORK PAD, WITH BATTERY BACK UP SYSTEM GAS & STORM IN CLOSE PROXIMITY
C9, 6' CONDUIT, 3", 725.051
C8, 61' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
T7, STA. 213+44.2, 0.3' RT. PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C7, 4' CONDUIT, 1-1/4", 725.051
R1, R1A, R1B, R1C, R1D
R3, R3A, R3B, R3C, R3D
RS3, RS3A, RS3B, RS3C
A1, A1A, A1B, A3, A3A, A3B
2A, 2B, 6A, 6B, 6H, 8A, 8B, 8C, 8D
S2
W5, P5, 6H, W2H, P2H, W6, P6, W3H, P3H, P7
209, 212, 213, 214, 217
35', 35
6', 6"

SIGNS

P3H
R10-3E-9
24"x9"

P5, P2H, P6
R10-3E-9
24"x9"

P7
R10-3E-9
24"X9"

Milan Rd
S2
D3-1
54" x 18"

SIGNAL HEADS

2A, 2B, 6A, 6B, 6H 8A, 8B
CUT AWAY VISORS

8C, 8D

W5, W2H, W6,W3H

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT SR-2 EB RAMPS
ERI-250-0.00

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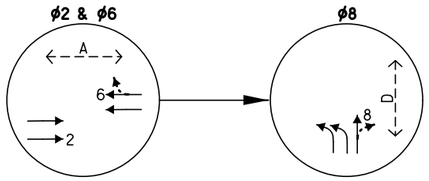

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - -→B

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND EB SR-2 RAMP

MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: NA
REST IN RED: NA
OVERLAP: - - - -
PHASES: - - - -

CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	-	20.0	-	-	-	20.0	-	10.0
PASSAGE (PRESET GAP)	(SEC)	-	4.0	-	-	-	4.0	-	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	-	60.0	-	-	-	60.0	-	40.0
MAXIMUM GREEN II	(SEC)	-	60.0	-	-	-	60.0	-	40.0
YELLOW CHANGE	(SEC)	-	3.9	-	-	-	3.9	-	3.9
ALL RED CLEARANCE	(SEC)	-	1.6	-	-	-	1.7	-	1.5
WALK	(SEC)	-	-	-	-	-	5.0	-	7.0
PEDESTRIAN CLEARANCE	(SEC)	-	-	-	-	-	12.3	-	25.4
RECALL MAXIMUM	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RECALL MINIMUM	(ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
RECALL PEDESTRIAN	(ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			SR-2 EB RAMP	
625	80	FT	4" CONDUIT, TYPE E	
625	1	EACH	CONNECTOR KIT, TYPE II	
625	1	EACH	CONNECTOR KIT, TYPE III	
625	1	EACH	BRACKET ARM, 20', AS PER PLAN	
625	84	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	174	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	23	FT	CONDUIT, 1-1/4", 725.051	
625	10	FT	CONDUIT, 2", 725.051	
625	37	FT	CONDUIT, 3", 725.051	
625	182	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	1	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	70	FT	TRENCH	
625	4	EACH	PULL BOX, 725.08, 24"	
625	10	EACH	GROUND ROD	
625	70	FT	PLASTIC CAUTION TAPE	
632	9	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	4	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	4	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	5	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	1842	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	3	EACH	SIGNAL SUPPORT FOUNDATION	
632	3	EACH	PEDESTAL FOUNDATION	
632	733	FT	LOOP DETECTOR LEAD-IN CABLE	
632	91	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 4 (ALTERNATE BID)*	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 13 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	3	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	3	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	CCTV IP-CAMERA, DOME TYPE	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION, WAVETRONICS SMARTSENSOR ADVANCE	
809	3	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT SR-2 EB RAMPS

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE	CC — CCTV IP-CAMERA & CABLE	2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

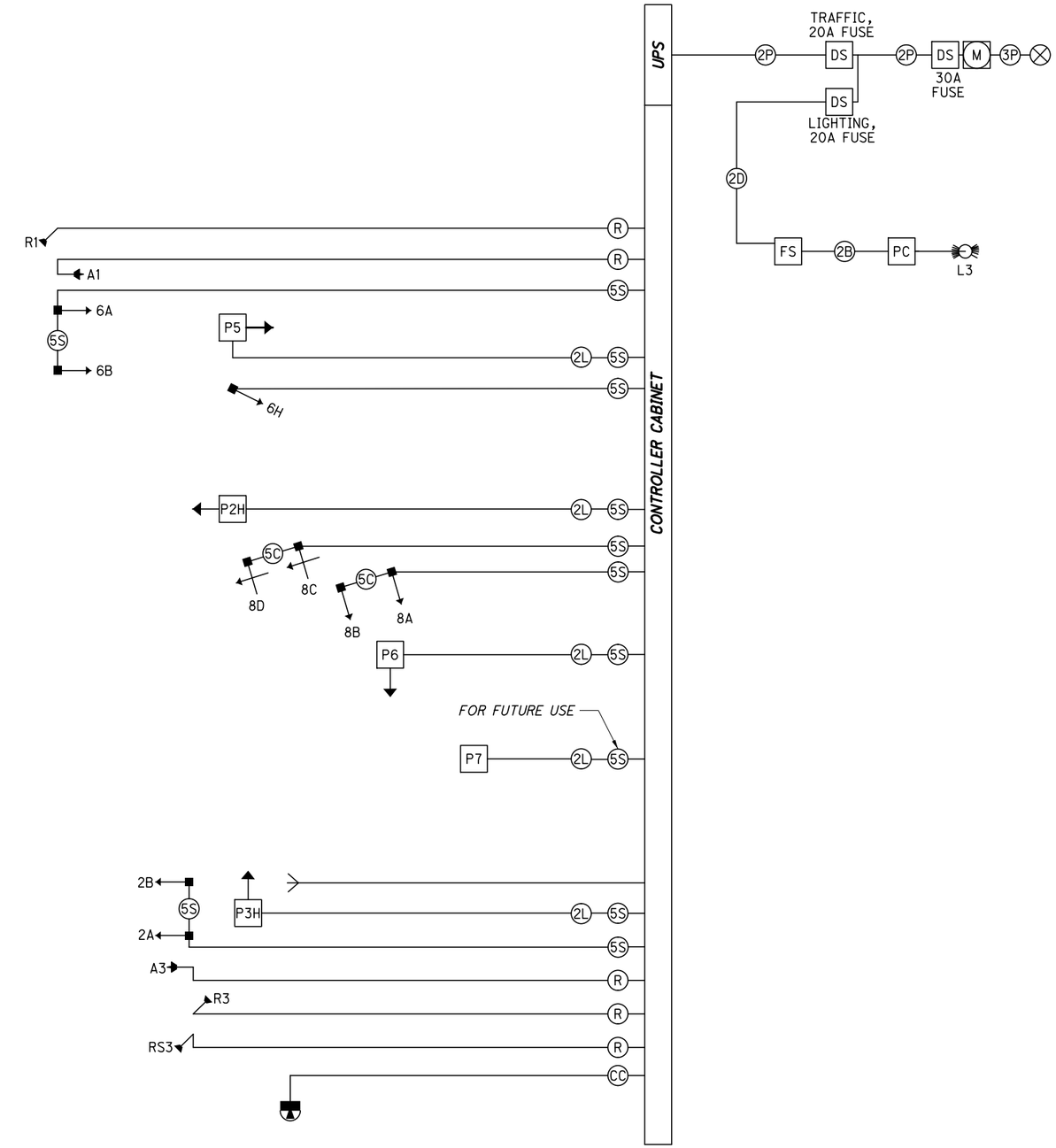
** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C, D	THRU	PRESENCE	-	-	-	2
R3	A, B	EXIT	PULSE	-	-	-	
R3	C, D	EXIT *	PRESENCE	-	-	-	6
RS3	A, B, C	SIDEROAD ALL	PRESENCE	-	-	-	8

** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*



FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6H (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
6A, 6B (NB)	R	ϕ 6 R	Y
	Y	ϕ 6 Y	
	G	ϕ 6 G	
2A, 2B (SB)	R	ϕ 2 R	Y
	Y	ϕ 2 Y	
	G	ϕ 2 G	
8A, 8B (EB)	R	ϕ 8 R	R
	Y	ϕ 8 Y	
	G	ϕ 8 G	
8C, 8D (EBLT)	<- R	ϕ 8 R	<- R
	<- Y	ϕ 8 Y	
	<- G	ϕ 8 G	

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
PEDESTRIAN MOVEMENTS			
W5, W2H PED A	W	LS 9 ϕ 6 G	OUT
	DW	LS 9 ϕ 6 R	
W3H, W6 PED D	W	LS 10/ ϕ 8 G	OUT
	DW	LS 10 ϕ 8 R	

LS = LOAD SWITCH

CALCULATED LMZ CHECKED GAB

TRAFFIC SIGNAL WIRING US-250 (MILAN ROAD) AT SR-2 EB RAMPS

ERI-250-0.00

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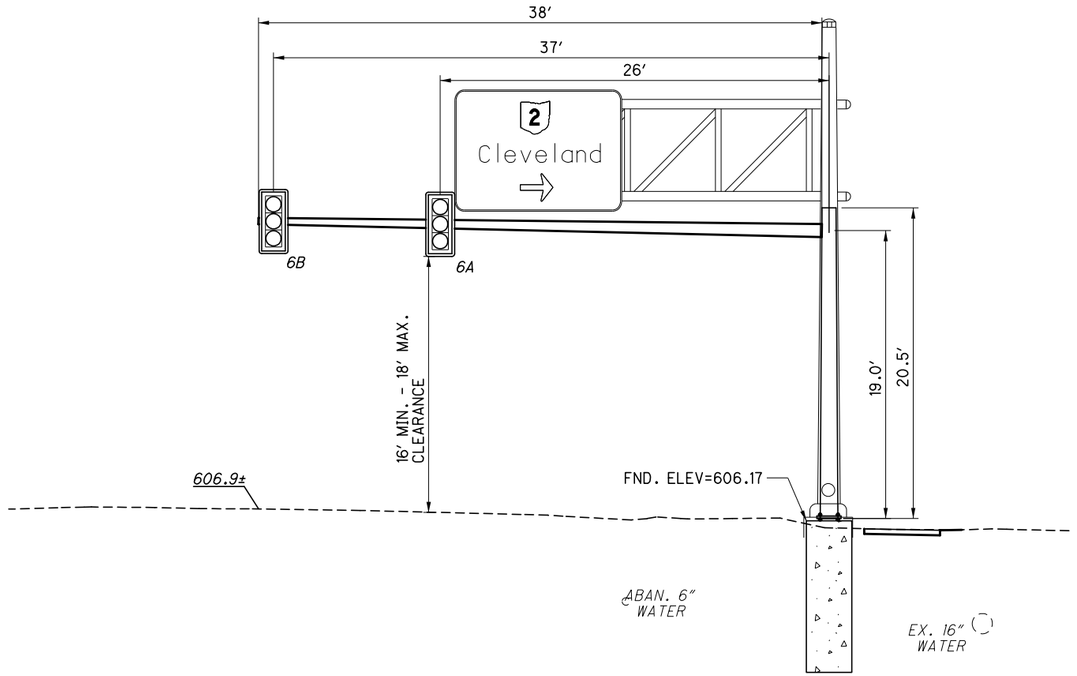
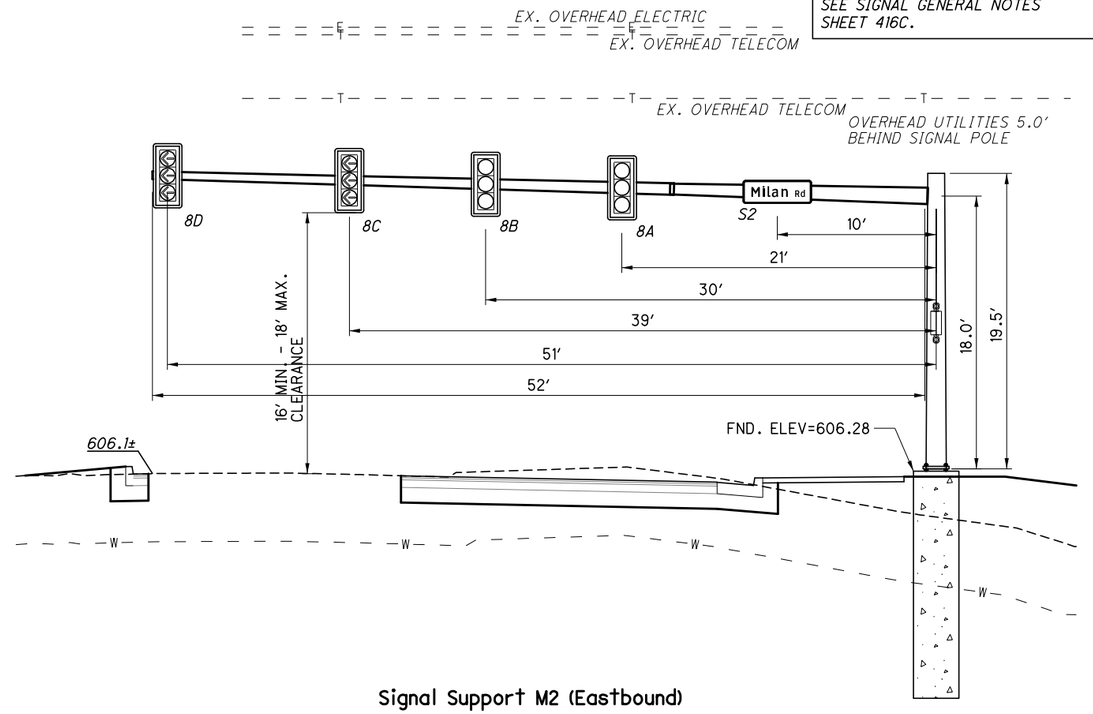
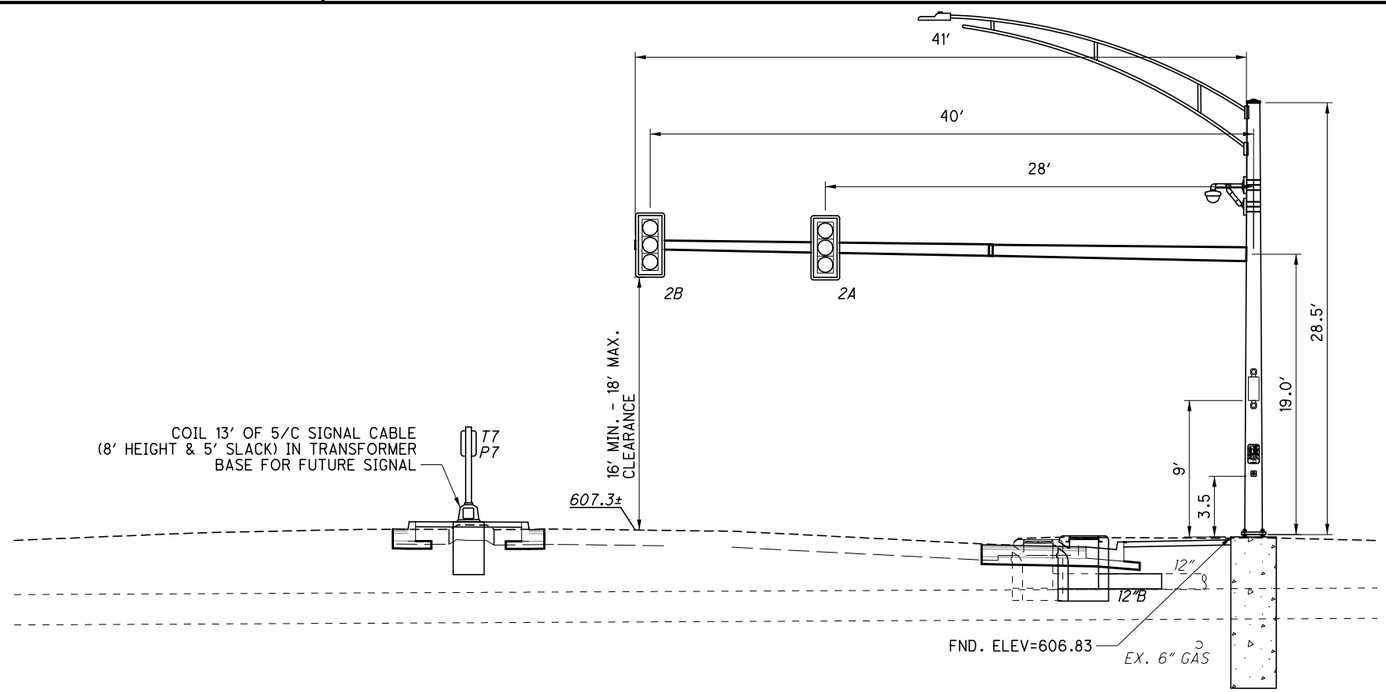


Signal Support M1 (Northbound)

Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.



Signal Support M2 (Eastbound)



Comb. Signal Support M3 (Southbound)

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ
CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS
US-250 (MILAN ROAD) AT SR-2 EB RAMPS

ERI-250-0.00

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677

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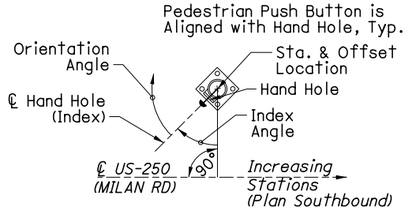
PEDESTAL ORIENTATION



Notes:

1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

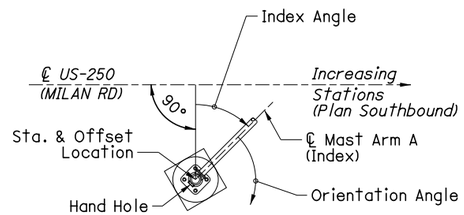
PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
T5	212+69.4	-57.5	LT	606.36	15	0	0	270*	0	270*
T6	213+49.9	-53.6	LT	606.52	8	290	0	66	0	-
T7	213+44.2	0.3	RT	607.51	8	90	0	-	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

* TO 1-1/2" BLIND HALF COUPINGS WELDED INTO THE POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk.
   This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH		LUMINAIRE BRACKET B LENGTH		HANDHOLE	CCTV IP-CAMERA
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	212+60.3	49.2	LT	4	20.5	19.0	0	-	-	-	-	-	-	-	-	180	-
M2	213+29.2	66.4	LT	13	19.5	18.0	84	-	-	270	51	-	-	-	-	180	-
M3	213+59.5	51.8	RT	11	28.5	19.0	0	-	-	270	257	20	0	-	-	180	315

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT SR-2 EB RAMPS

ERI-250-0.00

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NOTE:

FOR ROADWAY PLANS SEE SHEET - 167, 274
FOR PAVEMENT MARKING PLANS SEE SHEET - 378
FOR SIGNING PLANS SEE SHEET - 401
FOR OVERHEAD SIGNS SEE SHEETS - 412 & 414

PLAN NORTH

EX.	LEGEND	PR.
	VEHICLUAR SIGNAL HEAD	
	w/ TURN SIGNAL	
	PEDESTRIAN SIGNAL HEAD (W)	
	PUSH BUTTON (P)	
	SIGNAL SUPPORT (M)	
	PEDESTAL (T)	
	PULL BOX (B)	
	CONTROLLER	
	CONDUIT (C)	
	BRACKET ARM & LUMINAIRE (L)	
	STOP LINE DETECTOR (R OR RS)	
	ADVANCE DETECTOR (A)	
	DETECTOR ZONE	

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

CALCULATED LMZ
CHECKED GAB

C3, 46' CONDUIT, 1-¼", 725.051
T5, STA. 227+07.0, 50.6' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
EXISTING CONTROLLER
C2, 16' CONDUIT, 1-¼", 725.051
C20, 89' CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"
B1, STA. 226+91.5, 48.7' LT
PULL BOX, 24", 725.08
C1, 5' CONDUIT, 3", 725.051
M1, STA. 226+87.3, 46.2' LT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 42'
C19, 8' CONDUIT, 1-¼", 725.051
C18, 10' CONDUIT, 1-¼", 725.051
T13, STA. 227+09.2, 36.7' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
T6, STA. 227+32.3, 68.3' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
B6, STA. 227+17.7, 35.9' RT.
PULL BOX, 24", 725.08
B30, STA. 227+97.8, 38.1' LT.
PULL BOX, 24", 725.08
C30, 12' CONDUIT, 2", 725.051
M2, STA. 228+05.9, 46.6' LT.
COMBINATION SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 2, AS PER PLAN, ARM 26', WITH LIGHT POLE EXTENSIONS, L2A, 15' BRACKET ARM, L2B, 15' BRACKET ARM, LED, 6H
C4, 12' CONDUIT, 3", 725.051
T8, STA. 228+10.7, 48.3' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
T9, STA. 228+38.7, 70.4' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C7, 8' CONDUIT, 1-¼", 725.051
B3, STA. 228+42.0, 66.2' LT
PULL BOX, 24", 725.08
C6, 52' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
C5, 16' CONDUIT, 1-¼", 725.051
T7, STA. 228+05.1, 37.0' LT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C16, 54' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
B7, STA. 226+70.1, 62.8' RT.
PULL BOX, 24", 725.08
C17, 3' CONDUIT, 1-¼", 725.051
T11, STA. 226+71.6, 65.4' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
T12, STA. 227+07.4, 38.5' RT.
PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN
C15, 9' CONDUIT, 3", 725.051
M4, STA. 227+13.8, 43.8' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 2, AS PER PLAN, ARM 26', 2H
C14, 76' CONDUIT JACKED OR DRILLED, AS PER PLAN, 4"
C31, 89' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
T10, STA. 227+82.6, 58.5' RT.
BREAKAWAY TRANSFORMER BASE PEDESTAL
C13, 13' CONDUIT, 1-¼", 725.051
B5, STA. 227+85.6, 45.7' RT.
PULL BOX, 24", 725.08
C8, 5' CONDUIT, 1-¼", 725.051
B2, STA. 228+00.7, 36.3' LT
PULL BOX, 24", 725.08
C9, 83' CONDUIT JACKED OR DRILLED, AS PER PLAN, 3"
M3, STA. 228+11.8, 44.5' RT.
SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 11, AS PER PLAN, ARM 41' TELEPHONE IN CLOSE PROXIMITY
C10, 16' CONDUIT, 3", 725.051
PROP. POWER SOURCE
POWER SERVICE, AS PER PLAN 9' OF POWER CABLE
B4, STA. 227+95.3, 46.6' RT.
PULL BOX, 24", 725.08
C32, 6' CONDUIT, 3", 725.051
C11, 9' CONDUIT, 4", 725.051
B31, STA. 227+91.8, 50.3' RT.
PULL BOX, 24", 725.08
STA. 227+94.3, 56.0' RT.
CONTROLLER, FOUNDATION AND WORK PAD, WITH BATTERY BACK UP SYSTEM
C12, 12' CONDUIT, 4", 725.051

BOGART ROAD
MILAN ROAD
TH 86
Ex SH
Ex LA
Ex R/W
R1A R1B R1C R1D R1E R1F R1G R1H
R3A R3B R3C R3D R3E R3F R3G R3H
RS1A RS1B RS3A RS3B RS3C
R1 R3 S1 S2 S3 S4 A1 2A 2B 2H 3 5 6A 6B 7 8
A1A A1B A3A A3B
224 226 227 228 229 231
+04 +15.5

SIGNS

Milan Rd — S2, S4, D3-1, 54" x 18"
Bogart Rd — S1, S3, D3-1, 63" x 18"

P1, P3, P5, P8 R10-3E-9 24"x9"
P2, P4, P6, P7 R10-3E-9 24"x9"

SIGNAL HEADS
CUT AWAY VISORS

W4H, W12, W11, W13, W5, W6, W2H, W8, W9, W6, W3H, W10
2A, 6A 2B, 6B, 2H, 6H
1, 3, 5, 7
4, 8

TRAFFIC SIGNAL PLAN
US-250 (MILAN ROAD) AT BOGART ROAD
ERI-250-0.00

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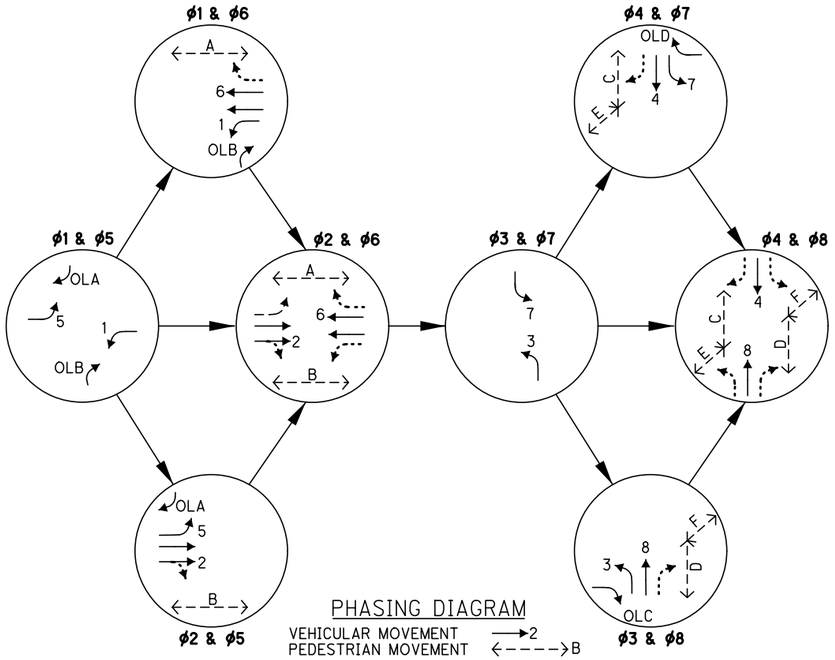

PHASING DIAGRAM

VEHICULAR MOVEMENT ——→2
PEDESTRIAN MOVEMENT ←- - - →B

OMIT CALLS TO: ϕ 1, 3, 5, 7
DURING: ϕ 2, 4, 6, 8 GREEN

ϕ2 IS PLAN SOUTHBOUND, WITH THE STATIONING (US-250, CLEVELAND RD. TO BOGART RD.)

TRAFFIC SIGNAL CONTROLLER TIMING CHART

LOCATION: US-250 (MILAN AVE.) AND BOGART RD.
MAINTAINING AGENCY: ODOT DISTRICT 3

START UP
START IN RED/YELLOW FLASH
TIME FOR FLASH: 8 SEC.
FIRST PHASES: ϕ 2 AND ϕ 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: 2:6, 4:8
REST IN RED: NA

					OVERLAP:	A	B	-	-
					PHASES:	5	1	-	-
CONTROLLER MOVEMENT:		1	2	3	4	5	6	7	8
INTERSECTION MOVEMENT :		NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MINIMUM GREEN (INITIAL)	(SEC)	7.0	20.0	7.0	10.0	7.0	20.0	7.0	10.0
PASSAGE (PRESET GAP)	(SEC)	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0
ADDED INITIAL, SEC. PER ACT.		-	2.0	-	-	-	2.0	-	-
MAXIMUM INITIAL	(SEC)	-	30.0	-	-	-	30.0	-	-
TIME BEFORE REDUCTION	(SEC)	-	20.0	-	-	-	20.0	-	-
MINIMUM GAP	(SEC)	-	3.0	-	-	-	3.0	-	-
TIME TO REDUCE	(SEC)	-	15.0	-	-	-	15.0	-	-
MAXIMUM GREEN I	(SEC)	20.0	60.0	25.0	20.0	20.0	60.0	15.0	20.0
MAXIMUM GREEN II	(SEC)	20.0	60.0	25.0	20.0	20.0	60.0	15.0	20.0
YELLOW CHANGE	(SEC)	3.9	3.9	4.2	4.2	3.9	3.9	4.2	4.2
ALL RED CLEARANCE	(SEC)	1.7	1.9	1.9	1.8	1.9	1.7	1.8	1.9
WALK	(SEC)	-	6.0	-	7.0	-	6.0	-	6.0
PEDESTRIAN CLEARANCE	(SEC)	-	16.0	-	22.0	-	17.4	-	19.7
RECALL	MAXIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM (ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	PEDESTRIAN (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
CALL TO NON ACTUATED	NO. 1	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	NO. 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FOR COORDINATION TIMING SEE SHEETS 419A-419F

ITEM	TOTAL	UNIT	DESCRIPTION	REF. NO.
			BOGART ROAD	
625	180	FT	4" CONDUIT, TYPE E	
625	1	EACH	CONNECTOR KIT, TYPE II	
625	1	EACH	CONNECTOR KIT, TYPE III	
625	2	EACH	BRACKET ARM, 15', AS PER PLAN	
625	417	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
625	219	FT	NO. 12 AWG POLE AND BRACKET CABLE	
625	125	FT	CONDUIT, 1-1/4", 725.051	
625	12	FT	CONDUIT, 2", 725.051	
625	48	FT	CONDUIT, 3", 725.051	
625	21	FT	CONDUIT, 4", 725.051	
625	367	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 3"	
625	2	EACH	LUMINAIRE, CONVENTIONAL, AS PER PLAN	
625	206	FT	TRENCH	
625	9	EACH	PULL BOX, 725.08, 24"	
625	17	EACH	GROUND ROD	
625	206	FT	PLASTIC CAUTION TAPE	
632	6	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	6	EACH	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5 SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE	
632	12	EACH	PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	
632	12	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
632	12	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
632	12	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
632	2050	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
632	1365	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
632	4	EACH	SIGNAL SUPPORT FOUNDATION	
632	9	EACH	PEDESTAL FOUNDATION	
632	1775	FT	LOOP DETECTOR LEAD-IN CABLE	
632	46	FT	POWER CABLE, 2 CONDUCTOR, NO. 10 AWG	
632	22	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
632	1	EACH	POWER SERVICE, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	
632	2	EACH	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	
632	1	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 2 (ALTERNATE BID)*	
632	2	EACH	SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-81.21, DESIGN 11 (ALTERNATE BID)*	
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: ORNAMENTAL, TC-1.21, DESIGN 2 (ALTERNATE BID)*	
632	9	EACH	PEDESTAL, 8',TRANSFORMER BASE, AS PER PLAN	
632	9	EACH	PEDESTAL, MISC.: 8', ORNAMENTAL (ALTERNATE BID)	
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	
632	1	EACH	SIGNALIZATION, MISC.: ETHERNET RADIO, INSTALLATION ONLY, AS PER PLAN	
633	1	EACH	CONTROLLER UNIT TYPE TS2/A2 WITH CABINET TYPE TS2, AS PER PLAN	
633	1	EACH	CABINET RISER, AS PER PLAN	
633	1	EACH	CABINET FOUNDATION	
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	
809	1	EACH	ADAPTIVE TRAFFIC SIGNAL CONTORL SYSTEM	
809	2	EACH	ADVANCE RADAR DETECTION WAVETRONICS SMARTSENSOR ADVANCE	
809	4	EACH	STOP-BAR RADAR DETECTION, WAVETRONICS SMARTSENSOR MATRIX	
			* ERIE COUNTY SHALL PAY 100% OF THE DIFFERENCE BETWEEN BASE AND ALTERNATE BID. NOTE THAT ALTERNATE BID ORNAMENTAL SUPPORTS INCLUDE LUMINAIRES AND BRACKET ARMS ITEMIZED SEPARATELY IN THE BASE BID.	

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL PHASING, TIMING & QUANTITIES
US-250 (MILAN ROAD) AT BOGART ROAD

ERI-250.0.00

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DS — 30A DISCONNECT SWITCH WITH 20A FUSE, 120 V AC, AT CONTROLLER	2P — 2/C NO.6 POWER	FS — FUSED CONNECTORS *	R1 R — STOP LINE DETECTOR & CABLE	5S — 5/C SIGNAL CABLE, NO. 14 AWG
M — METER	3P — 3/C NO.6 POWER	PC — PHOTO ELECTRIC CELL	A1 R — ADVANCE DETECTOR & CABLE	7S — 7/C SIGNAL CABLE, NO. 14 AWG
X — POWER SOURCES		L3 — LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	P9 — PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH BUTTON	*VEHICULAR SIGNAL HEAD, (LED), 3-SECTION*
P — POWER SERVICE		2B — 2/C NO.12 POLE & BRACKET	2L — PUSH BUTTON LEAD-IN, 2/C, NO. 14, ISMA 50-2 **	*VEHICULAR SIGNAL HEAD, (LED), 5-SECTION*
ETHERNET RADIO		2D — 2/C WITH GROUND DISTRIBUTION CABLE, NO. 10 AWG, 600 VOLT		

RADAR DETECTION CHART

RADAR DETECTOR	ZONE	PURPOSE	PULSE OR PRESENCE	DELAY	DELAY CONTROLLER	DELAY INHIBIT	ASSOCIATED PHASE
				SEC			
A1	A, B	ADVANCED	PULSE	-	-	-	6
A3	A, B	ADVANCED	PULSE	-	-	-	2
R1	AB	EXIT *	PULSE	-	-	-	
R1	C	LEFT	PRESENCE	-	-	-	5
R1	D, E	THRU-RT	PRESENCE	-	-	-	2
R3	A, B	EXIT *	PULSE	-	-	-	
R3	E	LEFT	PRESENCE	-	-	-	1
R3	C, D	THRU-RT	PRESENCE	-	-	-	6
RS1	A	SIDEROAD LEFT	PRESENCE	-	-	-	7
RS1	B	SIDEROAD THRU-RT	PRESENCE	-	-	-	4
RS3	A	SIDEROAD LEFT	PRESENCE	-	-	-	3
RS3	B	SIDEROAD THRU-RT	PRESENCE	-	-	-	8

** CONFIGURED FOR DOWNSTREAM DETECTION COUNTS FOR ADAPTIVE TRAFFIC SIGNAL CONTROL SYSTEM.*

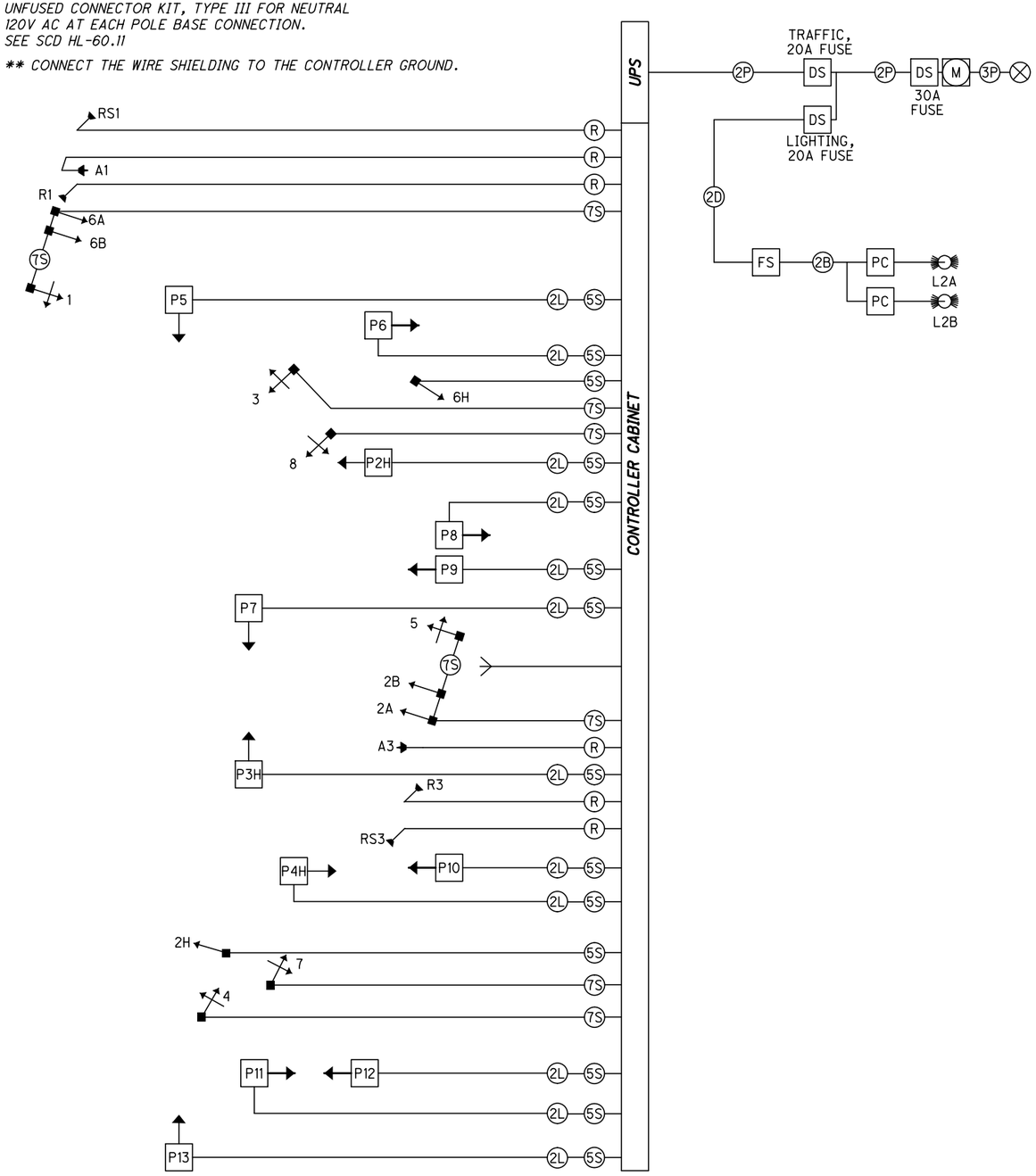
FIELD WIRING HOOK-UP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
6A (NBRT)	R	ø 6 R	Y	4 (WB)	R	ø 4 R	R
	Y	ø 6 Y			Y	ø 4 Y	
	G	ø 6 G			G	ø 4 G	
	Y ->	LS 18 / Y			Y ->	LS 15 / Y	
	G ->	LS 18 / G			G ->	LS 15 / G	
6B (NB)	R	ø 6 R	Y	7 (WBLT)	R	ø 4 R	R
	Y	ø 6 Y			Y	ø 4 Y	
	G	ø 6 G			G	ø 4 G	
1 (NBLT)	R	ø 6 R	Y		<- Y	ø 7 Y	
	Y	ø 6 Y			<- G	ø 7 G	
	G	ø 6 G		2H (SB)	R	ø 2 R	Y
	<- Y	ø 1 Y			Y	ø 2 Y	
	<- G	ø 1 G			G	ø 2 G	
8 (EBRT)	R	ø 8 R	R	PEDESTRIAN MOVEMENTS			
	Y	ø 8 Y		W6, W2H PED A	W	LS 9 ø 6 G	OUT
	G	ø 8 G			DW	LS 9 ø 6 R	
	Y ->	LS 16 / Y		W4H,W10 PED B	W	LS 10 ø 2 G	OUT
	G ->	LS 16 / G			DW	LS 10 ø 2 R	
3 (EBLT)	R	ø 8 R	R	W5, W13 PED C	W	LS 11 ø 4 G	OUT
	Y	ø 8 Y			DW	LS 11 ø 4 R	
	G	ø 8 G		W3H, W7 PED D	W	LS 12/ ø 8 G	OUT
	<- Y	ø 3 Y			DW	LS 12 ø 8 R	
	<- G	ø 3 G		W11,W12 PED E	W	LS 13 ø 4 G	OUT
6H (NB)	R	ø 6 R	Y		DW	LS 13 ø 4 R	
	Y	ø 6 Y		W8, W9 PED F	W	LS 14/ ø 8 G	OUT
	G	ø 6 G			DW	LS 14 ø 8 R	
5 (SBLT)	R	ø 2 R	Y	OVERLAPS			
	Y	ø 2 Y		4 OLA	Y ->	LS 15 / Y	OUT
	G	ø 2 G			G ->	LS 15 / G	
	<- Y	ø 5 Y		8 OLB	Y ->	LS 16 / Y	OUT
	<- G	ø 5 G			G ->	LS 16 / G	
2B (SB)	R	ø 2 R	Y				
	Y	ø 2 Y					
	G	ø 2 G					
2A (SBRT)	R	ø 2 R	Y				
	Y	ø 2 Y					
	G	ø 2 G					
	Y ->	LS 17 / Y					
	G ->	LS 17 / G					

LS = LOAD SWITCH

** FUSED CONNECTOR KIT, TYPE II, 625.18, WITH UNFUSED CONNECTOR KIT, TYPE III FOR NEUTRAL 120V AC AT EACH POLE BASE CONNECTION. SEE SCD HL-60.11*

*** CONNECT THE WIRE SHIELDING TO THE CONTROLLER GROUND.*



CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL WIRING
US-250 (MILAN ROAD) AT BOGART ROAD

ERI-250-0.00

10/20/2014 11:16:46 AM
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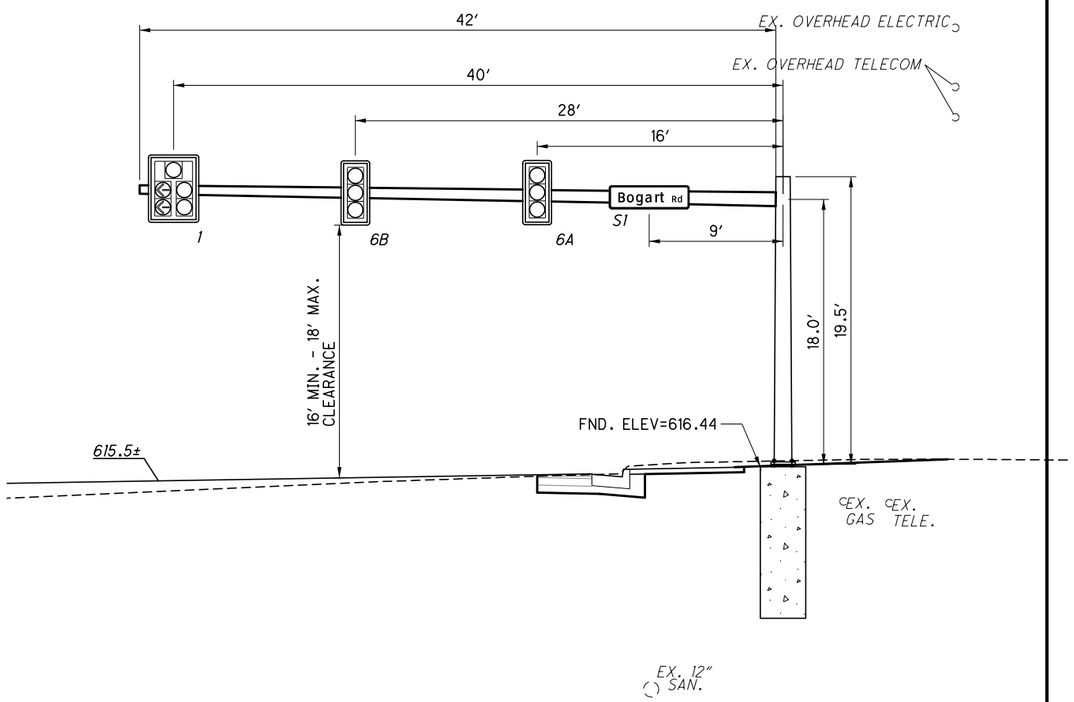
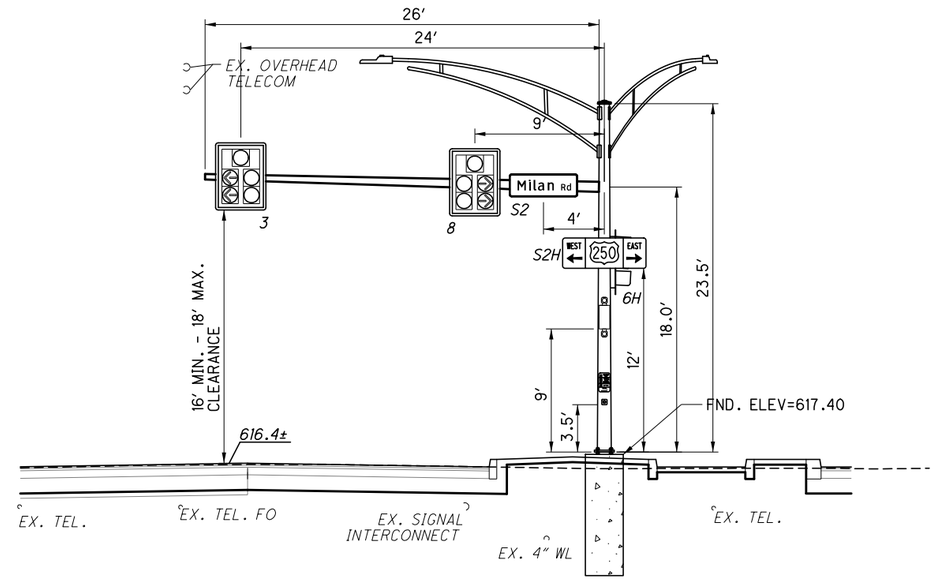
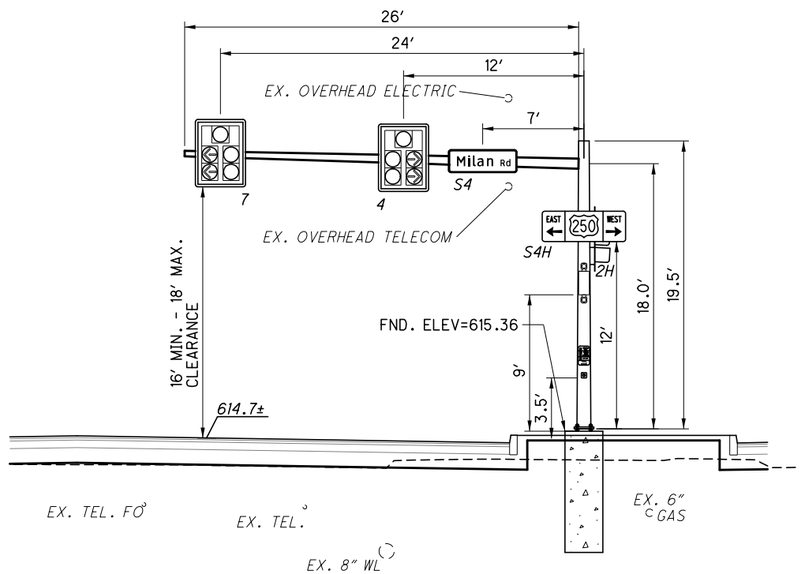


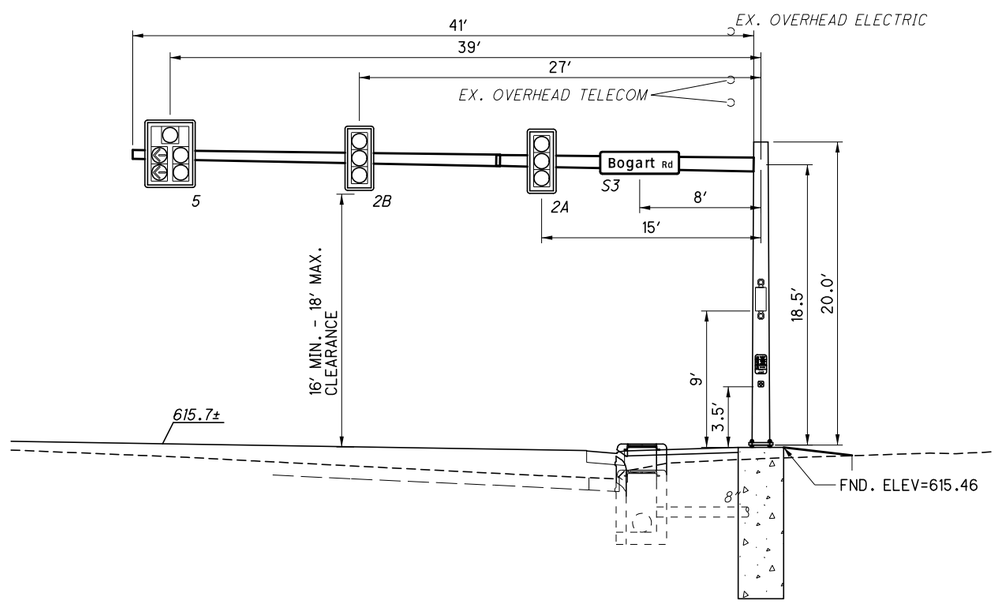
Signal Support M1 (Northbound)



Comb. Signal Support M2 (Eastbound)



Signal Support M4 (Westbound)



Signal Support M3 (Southbound)

Note:
RADAR DETECTORS AND ETHERNET RADIOS NOT SHOWN IN ELEVATION. SEE SIGNAL GENERAL NOTES SHEET 416C.

SCALE IN FEET 0 2.5 5 10

CALCULATED JJ CHECKED GAB

TRAFFIC SIGNAL POLE ELEVATIONS US-250 (MILAN ROAD) AT BOGART ROAD

ERI-250-0.00

492
677

10/20/2014 11:16:47 AM

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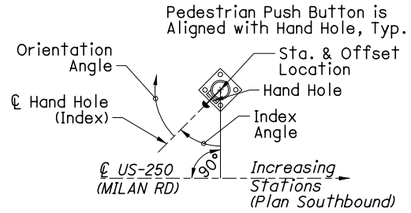
PEDESTAL ORIENTATION



Notes:

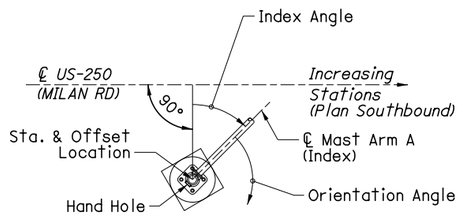
1) All angles are measured clockwise.
2) Base plate is oriented square to the hand hole.
3) Index Line goes through the center of the hand hole.

PEDESTALS, TRANSFORMER BASE, AS PER PLAN

POLE NO.	STATION	OFFSET	SIDE	PROPOSED WALK ELEVATION	POLE HEIGHT (FT)	INDEX ANGLE (DEG)	ANGLES (DEG) FROM INDEX LINE			
							HANDHOLE	PEDESTRIAN SIGNAL HEAD	PEDESTRIAN PUSH BUTTON	VEHICULAR SIGNAL HEAD
		FT				DEG	DEG	DEG	DEG	DEG
T5	227+07.0	-50.6	LT	616.38	8	251	0	107	0	-
T6	227+32.3	-68.3	LT	616.47	8	216	0	76	0	-
T7	228+05.1	-37.0	LT	617.10	8	270	0	90	0	-
T8	228+10.7	-48.3	LT	617.18	8	319	0	269	0	-
T9	228+38.7	-70.4	LT	616.50	8	320	0	92	0	-
T10	227+82.6	58.5	RT	614.84	8	33	0	246	0	-
T11	226+71.6	65.4	RT	614.76	8	152	0	258	0	-
T12	227+07.4	38.5	RT	615.37	8	140	0	90	0	-
T13	227+09.2	36.7	RT	615.37	8	91	0	269	0	-

NOTE: SQUARE FOUNDATION SHOWN IN PLAN IS TO MATCH ADJACENT WALKS. USE DATA ABOVE FOR ORIENTATION OF ANCHOR BOLTS AND POLE.

SIGNAL SUPPORT ORIENTATION



Notes:

1) All angles measured clockwise
2) Base plate is oriented square to Mast Arm A.
3) Index Line goes through the center of Mast Arm A.
4) Square top of foundation shown to match walk. This does NOT indicate the orientation of the mast arm or anchor bolts.

SIGNAL SUPPORTS, TYPE TC-81.21

SUPPORT LOCATION				SUPPORT DATA			MAST ARM A ANGLE "INDEX ANGLE"	"ORIENTATION ANGLE" FROM MAST ARM A									
SUPPORT NO.	STATION	OFFSET	SIDE	DESIGN NO.	POLE HEIGHT	MAST ARM MOUNTING HEIGHT		MAST ARM B	VEHICULAR SIGNAL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSH BUTTON WITH SIGN	LUMINAIRE BRACKET A LENGTH / ANGLE		LUMINAIRE BRACKET B LENGTH / ANGLE		HANDHOLE	POLE MOUNTED SIGN
		FT			FT	FT	DEG	DEG	DEG	DEG	DEG	FT	DEG	FT	DEG	DEG	DEG
M1	226+87.3	46.2	LT	11	19.5	18.0	0	-	-	-	-	-	-	-	-	180	-
M2	228+05.9	46.6	LT	2	23.5	18.0	107	-	90	270	270	15	0	15	122	180	270
M3	228+11.8	44.5	RT	11	20.0	18.5	0	-	-	270	270	-	-	-	-	180	-
M4	227+13.8	43.8	RT	2	19.5	18.0	113	-	90	270	259	-	-	-	-	180	270

CALCULATED LMZ
CHECKED GAB

TRAFFIC SIGNAL POLE LAYOUT
US-250 (MILAN ROAD) AT BOGART ROAD

ERI-250-0.00

493
677

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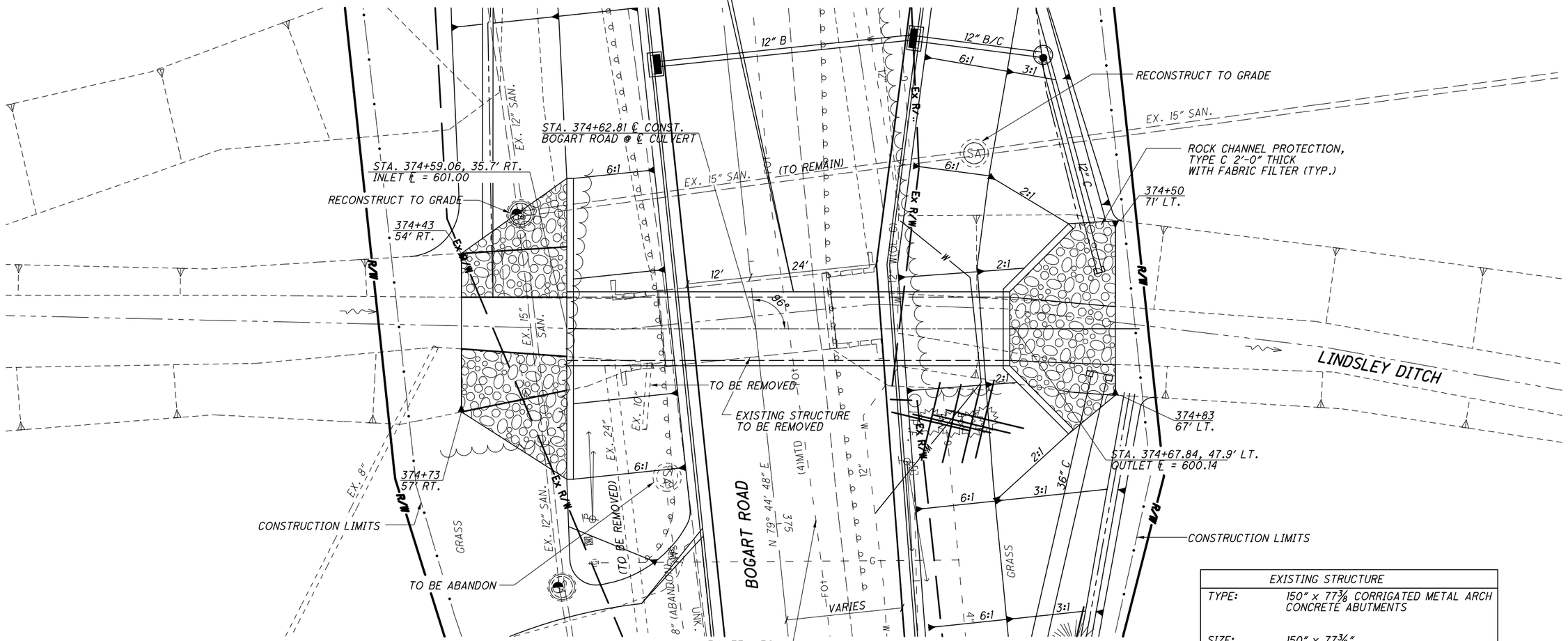
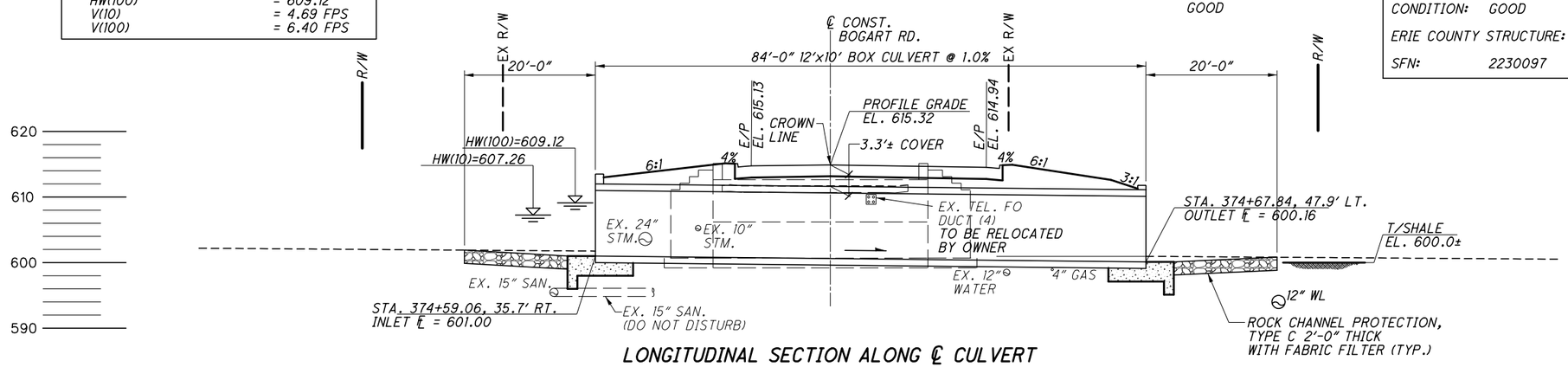
ERIE COUNTY STRUCTURE: P-214 ERI-CR 10-08.06
SFN: 2232251

HORIZONTAL SCALE IN FEET
0 5 10 20



HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 2 SQ. MI.
Q(10)	= 317 CFS
Q(100)	= 537 CFS
HW(10)	= 607.26
HW(100)	= 609.12
V(10)	= 4.69 FPS
V(100)	= 6.40 FPS

EXISTING STRUCTURE	
TYPE:	150" x 77⅜ CORRIGATED METAL ARCH CONCRETE ABUTMENTS
SIZE:	150" x 77⅜"
SKEW:	6°
ALIGNMENT:	TANGENT
DATE BUILT:	1937
CONDITION:	GOOD
ERIE COUNTY STRUCTURE:	P-214 ERI-CR 10-08.06
SFN:	2230097



LONGITUDINAL SECTION ALONG ℄ CULVERT

DESIGN AGENCY
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS, ENGINEERS, PLANNERS
168 NORTH MAIN STREET
FINDLAY, OHIO 45840
PH: (419) 352-1537

DESIGNED	DRAWN	REVIEWED	DATE
JDL	JEF	RRH	9-13
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JTY		2232251	

CULVERT GENERAL PLAN AND LONGITUDINAL SECTION
LINDSLEY DITCH
BOGART ROAD

ERI-250-0.00
PID No. 88407

1 / 6

494
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GENERAL NOTES

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "THE LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2012, INCLUDING THE 2013 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN DATA: THE FOLLOWING DESIGN DATA IS ASSUMED:

INTERNAL ANGLE OF FRICTION (ϕ) = 30 DEGREES
COEFFICIENT OF FRICTION= 0.30
UNIT WEIGHT OF SOIL = 115 PCF
UNIT WEIGHT OF CONCRETE = 150 PCF
SLOPE OF BACKFILL = 2:1
HEIGHT OF LIVE LOAD SURCHARGE = 2 FT
MAXIMUM FOUNDATION BEARING PRESSURE = 20,000 P.S.F.

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 PSI
(FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - ASTM A615, A616, OR A617
GRADE 60 MINIMUM YIELD STRENGTH
60,000 PSI (ALL REINFORCING SHALL BE EPOXY COATED)

PRECAST CONCRETE: AT THE OPTION OF THE CONTRACTOR, PRECAST HEADWALLS MAY BE FURNISHED PER ITEM 602.03 PRECAST STRUCTURES, PROVIDED THEY ARE SIZED TO MEET THE SOIL LOADING AND RESISTANCE PARAMETERS, AND MEET OR EXCEED THE MATERIAL STRENGTHS AND WALL LIMITS AS SHOWN AND SPECIFIED. FULL COMPENSATION FOR THE PRECAST SUBSTITUTION IS THE VOLUME OF CONCRETE AND THE WEIGHT OF THE REINFORCING STEEL FOR THE CORRESPONDING CAST-IN-PLACE STRUCTURE.

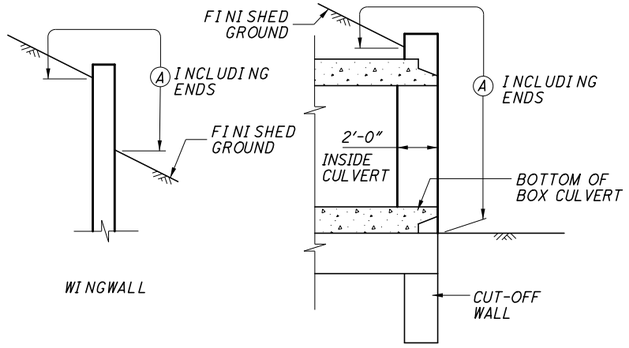
FORESLOPE WALL ANCHOR DOWELS: ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH OF 5". PAYMENT FOR DOWEL HOLES, GROUT AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

AS AN ALTERNATIVE TO RESIN BONDING, THREADED INSERTS OR NONPROTRUDING MECHANICAL CONNECTORS CAST INTO THE CULVERT BY THE MANUFACTURER MAY BE USED PROVIDED THEY CAN RESIST AN ULTIMATE PULL-OUT STRENGTH OF 12 KIPS AND MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS MUST PROVIDE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS SHALL BE INCLUDED WITH ITEM 603.

POROUS BACKFILL WITH FILTER FABRIC 2'-0" THICK SHALL BE PLACED BEHIND THE WINGWALLS AND CULVERT AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6".

PREFORMED EXPANSION JOINT FILLER: PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

SEALING OF FORESLOPE WALL AND WINGWALLS: ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.



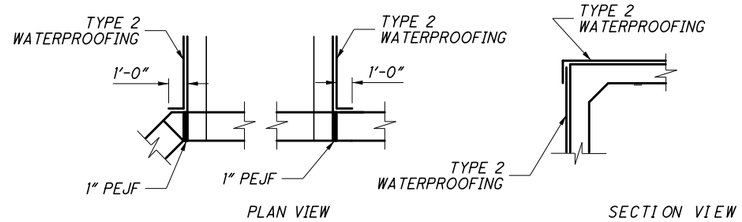
FORESLOPE WALL AND PRECAST 3-SIDED BOX
(CULVERT OUTLET BEVEL SHOWN)

LIMITS OF ITEM 512-SEALING CONCRETE SURFACES

(A) - SEAL ENTIRE CONCRETE SURFACE AREA

WATERPROOFING: TYPE 2 WATERPROOFING, PER CMS 512.08 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

IF PAVEMENT IS NOT PLACED DIRECTLY ON TOP OF THE CULVERT, TYPE 2 WATERPROOFING, PER CMS 512.08 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.



WATERPROOFING DETAILS

BASIS OF PAYMENT: ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO CONSTRUCT THE FOOTING, CUTOFF WALL, WINGWALLS AND FORESLOPE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC2 CONCRETE, WINGWALLS AND CLASS QC2 CONCRETE, FOOTING. PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
202	11000	LUMP		STRUCTURE REMOVED
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING
503	21300	LUMP		UNCLASSIFIED EXCAVATION (WINGWALL FOOTING)
509	10000	12713	POUND	EPOXY COATED REINFORCING STEEL
511	46010	43	CU. YD.	CLASS QC1 CONCRETE, WINGWALL
511	46510	65	CU. YD.	CLASS QC1 CONCRETE, FOOTING
511	46610	2	CU. YD.	CLASS QC1 CONCRETE, HEADWALL
512	10100	106	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	33000	353	SQ. YD.	TYPE 2 WATERPROOFING
516	13600	52	SQ. FT.	1" PREFORMED EXPANSION JOINT FILLER
518	21230	LUMP		POROUS BACKFILL WITH FILTER FABRIC
518	42400	234	FEET	6" PERFORATED PIPE, INCLUDING SPECIALS, 707.41
518	42450	6	FEET	6" NON-PERFORATED PIPE, INCLUDING SPECIALS, 707.45
611	96200	84	FEET	12' x 10' CONDUIT, TYPE A, 706.05

DESIGN AGENCY
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS, ENGINEERS, PLANNERS
168 NORTH MAIN STREET
ADA, OHIO 45810-1543
PH: (419) 332-7537

DESIGNED	DRAWN	REVIEWED	DATE
JDL	JEF	RRH	9-13
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JTY		2232251	

CULVERT ESTIMATED QUANTITIES AND GENERAL NOTES
LINDSLEY DITCH
BOGART ROAD

ERI-250-0.00
PID No. 88407

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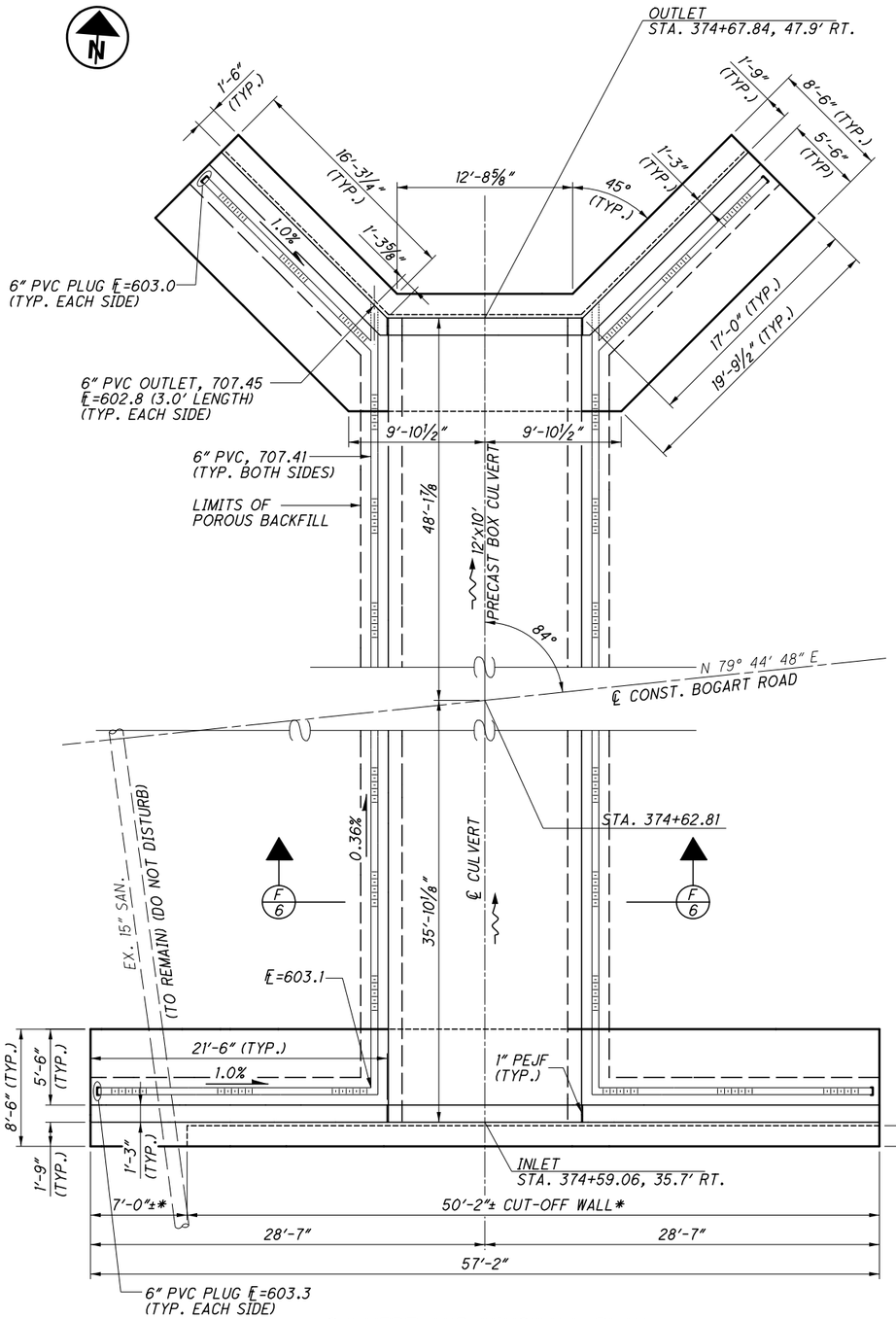
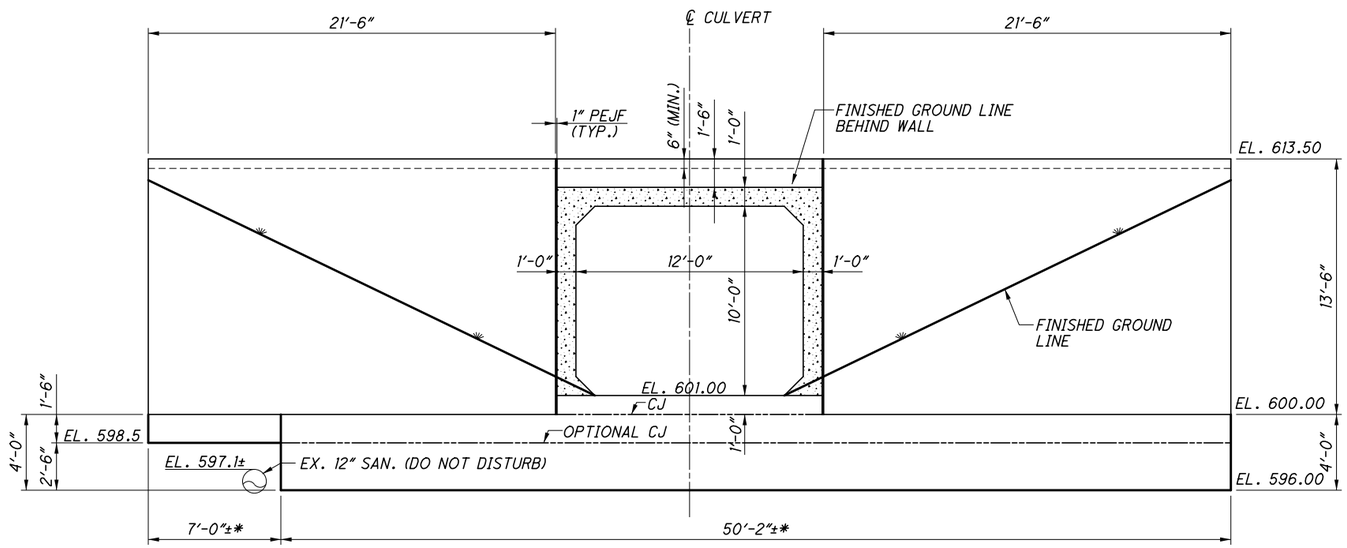


CULVERT AND WINGWALL PLAN

* - CUT-OFF WALL LENGTH TO BE ADJUSTED AS NEEDED TO AVOID EXISTING SANITARY SEWER

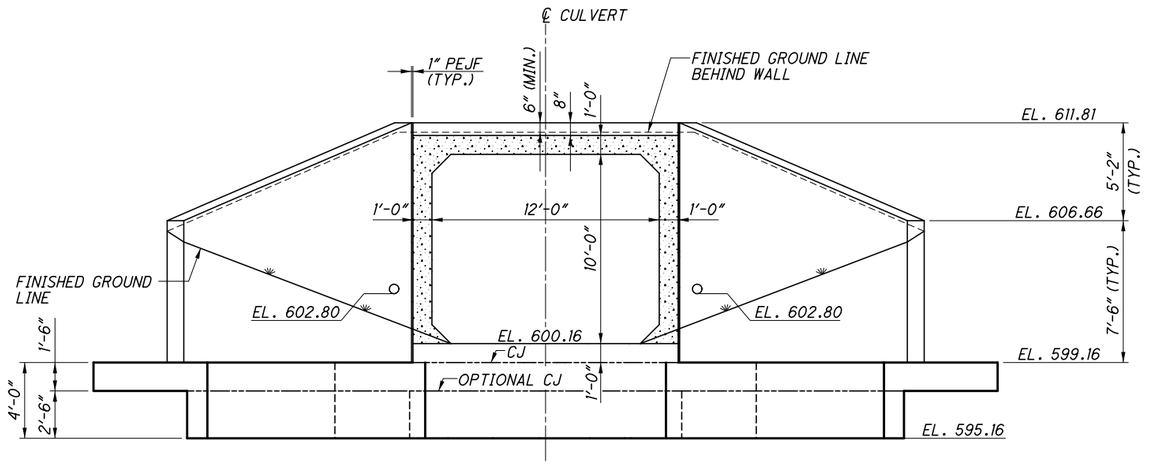


INLET ELEVATION

LEGEND

MIN. = MINIMUM
TYP. = TYPICAL
CJ = CONSTRUCTION JOINT
PEJF = PREFORMED EXPANSION JOINT FILLER

NOTE:
PLACE CONCRETE ABOVE THE THE BOTTOM OF THE BOX AFTER THE BOX CULVERT IS PLACED.



OUTLET ELEVATION

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DESIGN AGENCY
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS, ENGINEERS, PLANNERS
1768 NORTH MAIN STREET, #200
WALNUT CREEK, CA 94596
PH: (925) 935-9020

DESIGNED	DRAWN	REVIEWED	DATE
JDL	JEF	RRH	9-13
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JTY		2232251	

CULVERT DETAILS
LINDSLEY DITCH
BOGART ROAD

ERI-250-0.00
PID No. 88407

3 / 6

496
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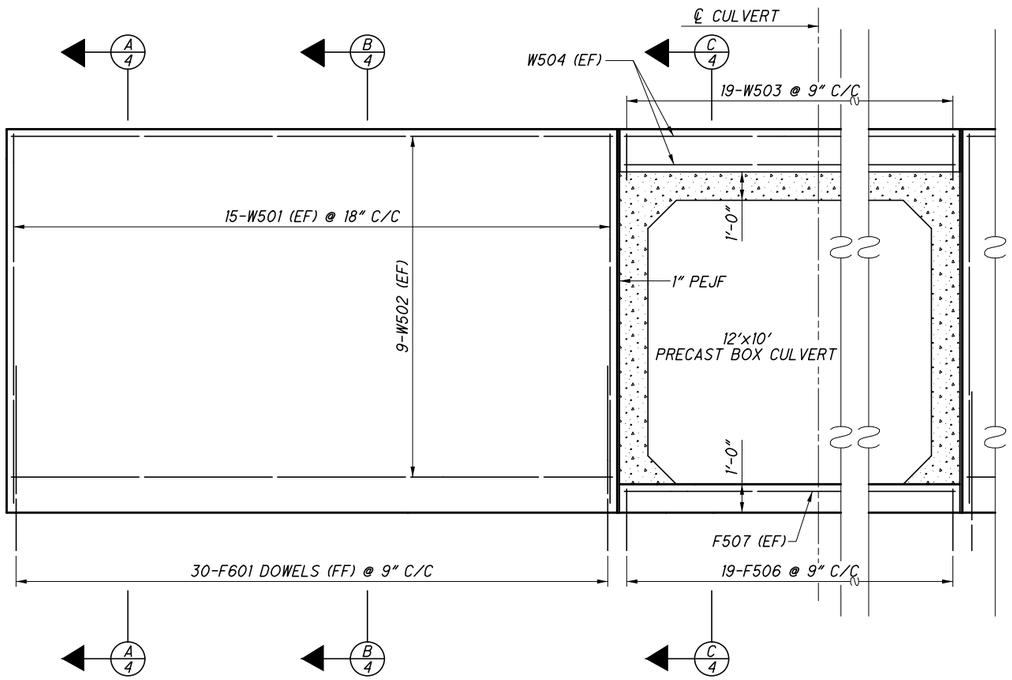
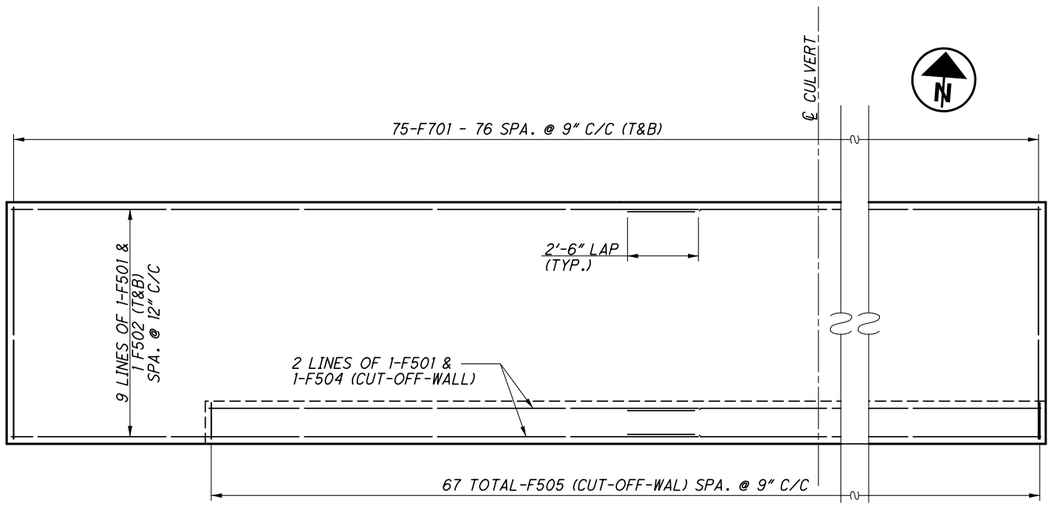
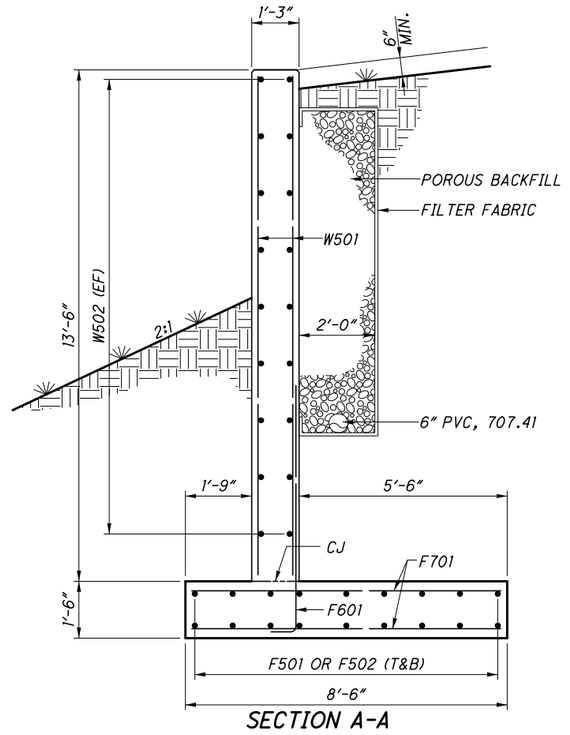


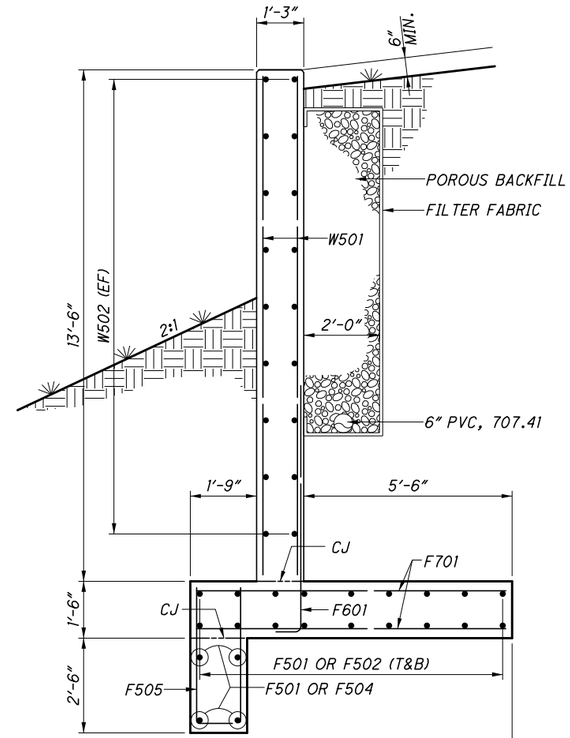
WINGWALL ELEVATION (INLET)
(FOOTING NOT SHOWN)



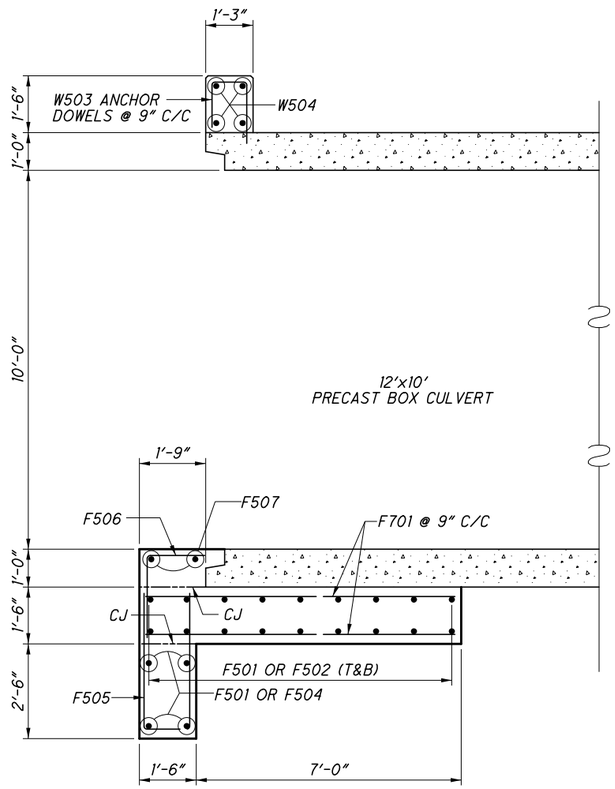
FOOTING PLAN (INLET)



SECTION A-A



SECTION B-B



SECTION C-C

LEGEND

FF = FAR FACE	(T&B) = TOP AND BOTTOM
EF = EACH FACE	CJ = CONSTRUCTION JOINT
MIN. = MINIMUM	PEJF = PREFORMED EXPANSION JOINT FILLER
MAX. = MAXIMUM	
TYP. = TYPICAL	

FOR RESTEEL TABLE SEE SHEET 6/6

THE INTERFACE BETWEEN THE TOP OF FOOTING AND BASE OF WINGWALL STEM SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4″ BY MEANS OF A SERRATED TROWEL.

DESIGN AGENCY
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS, ENGINEERS, PLANNERS
1768 NORTH MAIN STREET, SUITE 100
WALNUT CREEK, CA 94596
PH: (925) 952-9260 FAX: (925) 952-9261

DESIGNED	DRAWN	REVIEWED	DATE
JDL	JEF	RRR	9-13
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JTY		2232251	

CULVERT DETAILS - INLET
LINDSLEY DITCH
BOGART ROAD

ERI-250-0.00
PID No. 88407

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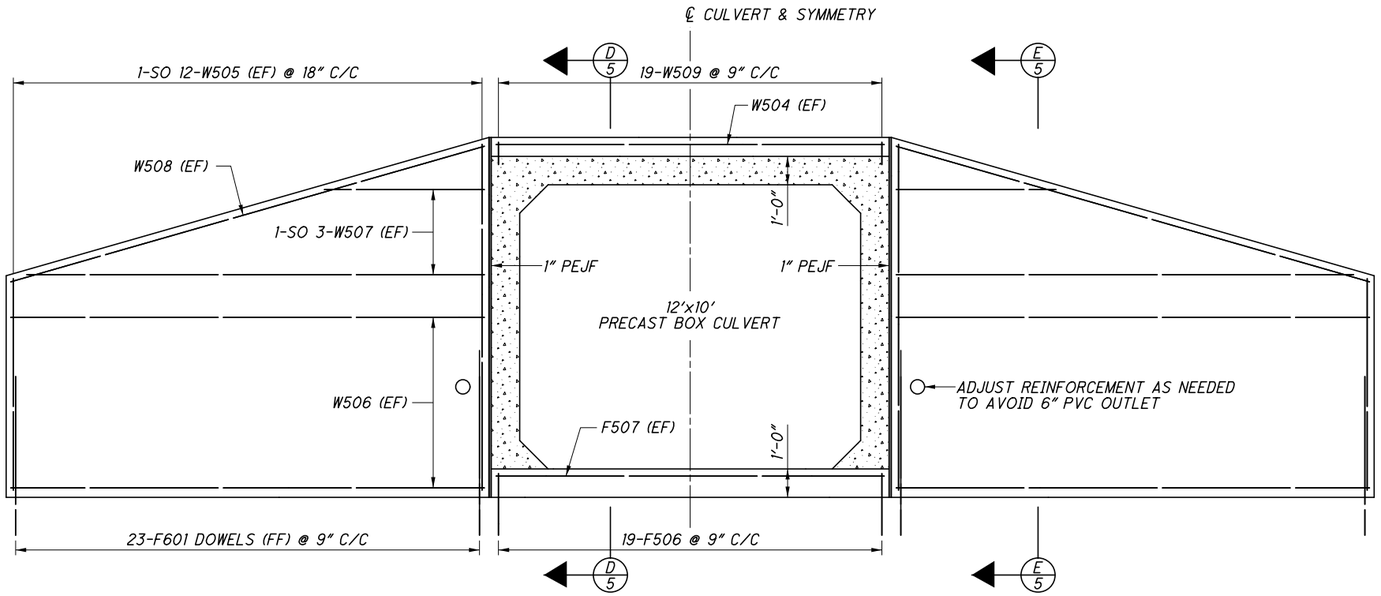
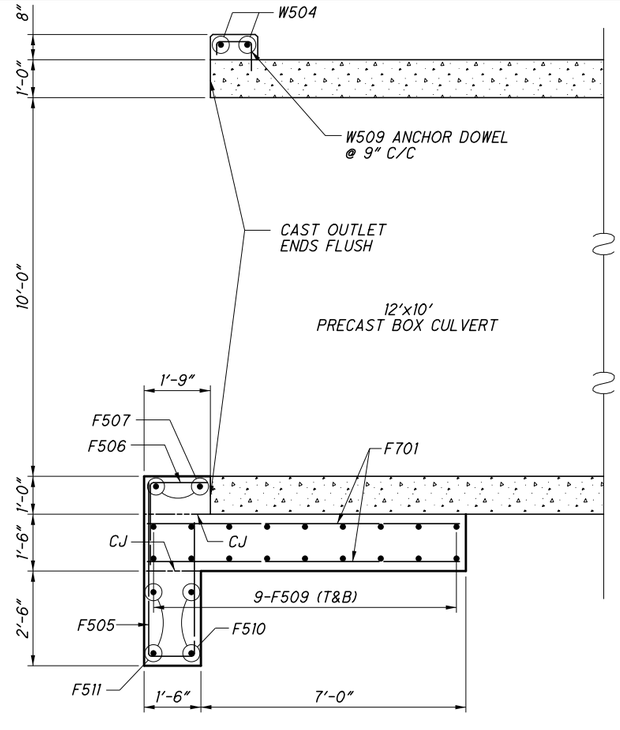
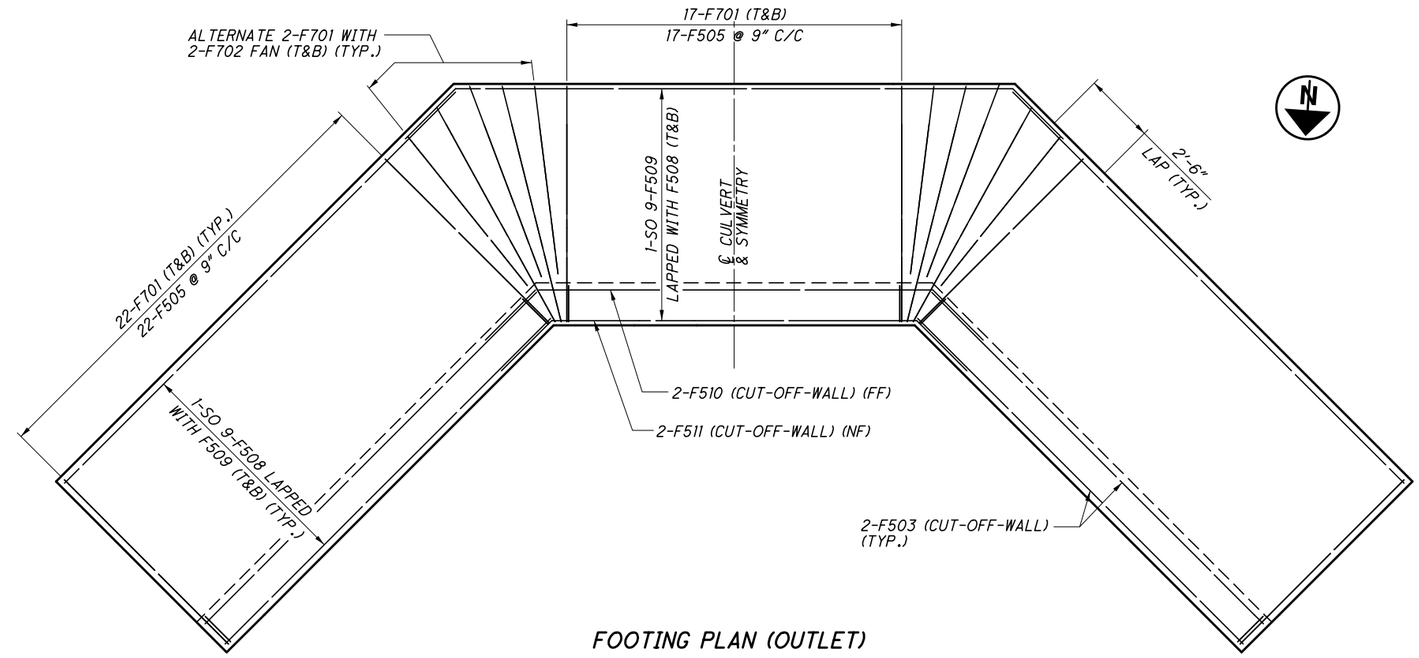


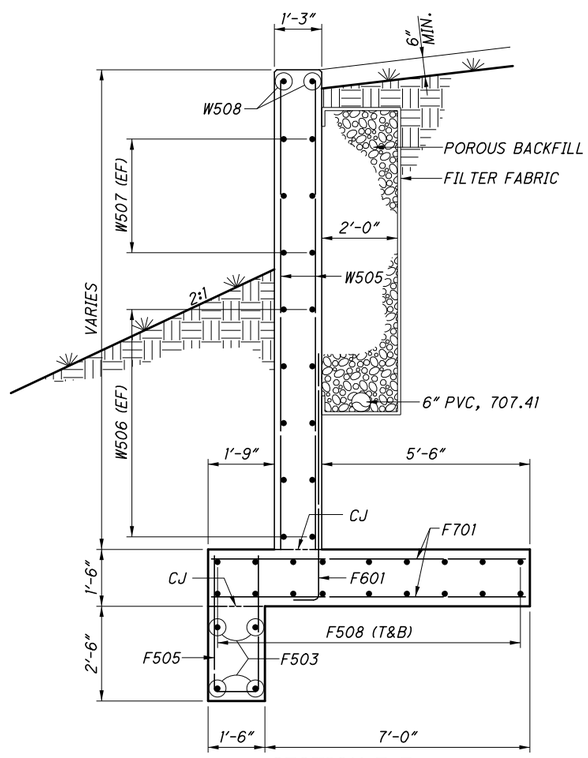
WINGWALL ELEVATION (OUTLET)
(FOOTING NOT SHOWN)



SECTION D-D



FOOTING PLAN (OUTLET)



SECTION E-E

LEGEND

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
SO = SERIES OF
MIN. = MINIMUM
MAX. = MAXIMUM
TYP. = TYPICAL

(T&B) = TOP AND BOTTOM
CJ = CONSTRUCTION JOINT
PEJF = PREFORMED EXPANSION JOINT FILLER

FOR RESTEEL TABLE SEE SHEET 6/6

THE INTERFACE BETWEEN THE TOP OF FOOTING AND BASE OF WINGWALL STEM SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4" BY MEANS OF A SERRATED TROWEL.

DESIGN AGENCY
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS, ENGINEERS, PLANNERS
168 NORTH MAIN STREET
ROSEVILLE, CA 95678
PH: (916) 782-4520

DESIGNED	DRAWN	REVIEWED	DATE
JDL	JEF	RRH	9-13
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JTY		2232251	

CULVERT DETAILS - OUTLET
LINDSLEY DITCH
BOGART ROAD

ERI-250-0.00
PID No. 88407

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LENGTHS SHOWN IN FEET AND INCHES

REINFORCING STEEL LIST

MARK	TOTAL	WINGWALL		LENGTH	WEIGHT (POUNDS)	TYPE	A	B	C	D	E	INCR
		INLET	OUTLET									
FOOTINGS												
F501	22	22		30-0	688	S	30-0					
F502	18	18		29-4	551	S	29-4					
F503	8		8	16-6	138	S	16-6					
F504	4	4		22-4	93	S	22-4					
F505	128	67	61	8-1	1079	1	3-7	1-2	3-7			
F506	38	19	19	3-7	142	2	2-2	1-6				
F507	4	2	2	13-8	57	S	13-8					
F508	4 SO 9		4 SO 9	16-4 TO 19-6	673	S	16-4 TO 19-6					4 3/4"
F509	2 SO 9		2 SO 9	17-8 TO 24-2	393	3	1-9	1-9	12-10 TO 19-4			9 3/4"
F510	2		2	18-7	39	3	1-9	1-9	13-9			
F511	2		2	17-8	37	3	1-9	1-9	12-10			
F601	106	60	46	7-4	1168	2	6-6	1-0				
F701	280	150	130	8-2	4674	S	8-2					
F702	8		8	6-9	110	S	6-9					
WALLS												
W501	60	60		13-2	824	S	13-2					
W502	36	36		21-2	795	S	21-2					
W503	19	19		3-11	78	1	1-2	0-11	2-1			
W504	6	4	2	13-8	86	S	13-8					
W505	4 SO 12		4 SO 12	7-3 TO 12-3	488	S	7-3 TO 12-3					5 1/2"
W506	20		20	16-8	348	S	16-8					
W507	4 SO 3		4 SO 3	5-8 TO 16-2	137	S	5-8 TO 16-2					5'-3"
W508	4		4	17-4	72	S	17-4					
W509	19		19	2-3	45	1	0-4	0-11	1-3			
					12,713	TOTAL						

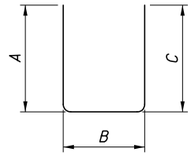
NOTE:
BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORCING STEEL TO BE EPOXY COATED.

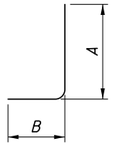
BAR LEGEND

F 5 0 6
- F 5 — BAR LOCATION
- 0 6 — BAR NUMBER
- 5 — BAR SIZE

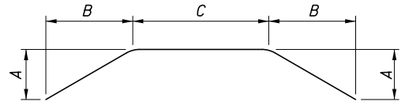
- F - FOOTING
- W - WALL



TYPE-1



TYPE-2



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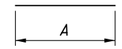
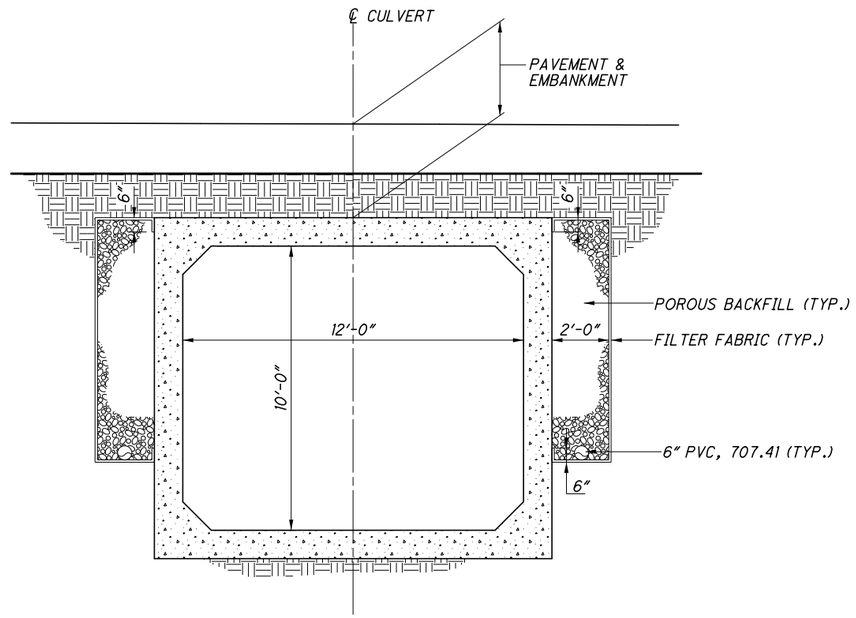


TYPE-S



SECTION F-F

SEE SHEET 3/6

DESIGN AGENCY
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS, ENGINEERS, PLANNERS
1768 NORTH MAIN STREET
WALNUT CREEK, CA 94596
PH: (925) 935-1525

DESIGNED JDL | DRAWN JEF | REVIEWED RRH | DATE 9-13
CHECKED JTY | REVISED | STRUCTURE FILE NUMBER 2232251

CULVERT REINFORCING LIST

LINDSLEY DITCH
BOGART ROAD

ERI-250-0.00
PID No. 88407

6 / 6

499
677

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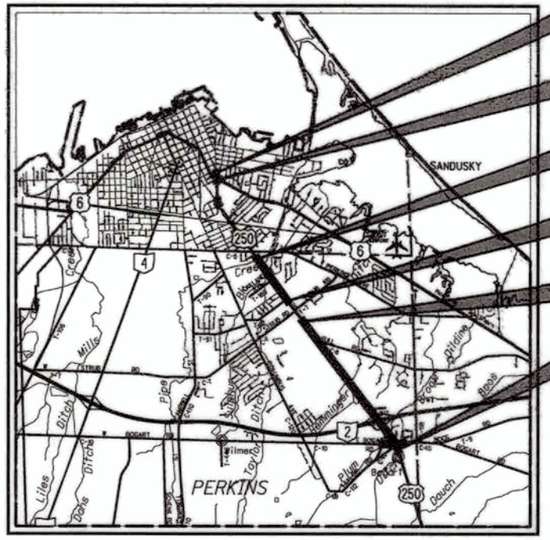
RIGHT OF WAY LEGEND SHEET ERI-250-0.00

ERIE COUNTY
CITY OF SANDUSKY
(FORMERLY PORTLAND TOWNSHIP)
PERKINS TOWNSHIP, SEC. 1 & SEC. 2

BEATTY 500 ACRE TRACT
HALLAM TRACT LOTS 1,2,3,4,5,6,7,9,
31,32,33,34,35,36,39,40,41,42,&43
860 ARCE TRACT LOTS 3&4
1620 ACRE TRACT LOTS 8,9,&10



LOCATION MAP

LATITUDE: 41°25'08" LONGITUDE: 82°40'28"

SCALE IN MILES
0 1 2 3 4

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
STATE & FEDERAL ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

INDEX OF SHEETS:

LEDEND SHEET	1
CENTERLINE PLAT	2-21
PROPERTY MAP	22-31
LEASE AND EASEMENT SUMMARY	32-57
LEASE AND EASEMENT MAP	58-67
SUMMARY OF ADDITIONAL R/W	68-91
R/W DETAIL SHEET LAYOUT	92
R/W TOPO AND BOUNDARY SHEETS	93-178

PROJECT DESCRIPTION

THIS PROJECT INCLUDES IMPROVING US 250 (MILAN ROAD) BY UPGRADING THE EXISTING TRAFFIC SIGNALS AND SIGNING, INCORPORATING ACCESS MANAGEMENT, AND ADDING TURN LANES WHERE NEEDED. A FIVE FOOT WIDE SIDEWALK WILL ALSO BE ADDED IN AREAS WHERE SIDEWALK IS MISSING. ADDITIONAL LANES ON THE SR 2 INTERCHANGE RAMPS WILL BE ADDED. SIDEROAD IMPROVEMENTS INCLUDE HULL ROAD, CROSSINGS ROAD, FUN DRIVE, US 2 RAMPS "B" AND "C" AND BOGART RD. NEW ALIGNMENT AND CONSTRUCTION WILL BE AT THE PARK PLACE SOUTH DRIVE INTERSECTION WITH US 250.

PLANS PREPARED BY:

FIRM NAME: POGGEMEYER DESIGN GROUP, INC.
R/W DESIGNER: JAMES JORDAN
R/W REVIEWER: DANA A. PARSELL
FIELD REVIEWER: RANDY FLUCK / JAMES JORDAN
PRELIMINARY FIELD REVIEW DATE: 3/28/13 - 4/3/13
TRACINGS FIELD REVIEW DATE: 7/14/13
OWNERSHIP UPDATED BY: LMZ / KCD
DATE COMPLETED: 7/15/2013
PLAN COMPLETION DATE: 9/12/13

LEGEND:

WL	=	FEE SIMPLE WITH LIMITATION OF ACCESS
WD	=	WARRANTY DEED
SH	=	STANDARD HIGHWAY EASEMENT
LA	=	LIMITED ACCESS EASEMENT
T	=	TEMPORARY EASEMENT
CH	=	CHANNEL EASEMENT
A	=	AERIAL EASEMENT
SL	=	SLOPE EASEMENT

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) , Mailbox (Pr)
Light (Ex) , Telephone Marker (Ex)
Fire Hydrant (Ex) , Water Meter (Ex)
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

UTILITY OWNERS

TYPE	NAME & ADDRESS	TYPE	NAME & ADDRESS
GAS	COLUMBIA GAS OF OHIO ATTN: DAMAGE PREVENTION CENTER 1600 DUBLIN ROAD COLUMBUS, OHIO 43215 614-460-6800 COLUMBIA GAS OF OHIO 1800 BROAD AVE. FINDLAY, OHIO 45840 419-427-3227	ELECTRIC	OHIO EDISON/FIRST ENERGY ATTN: KAREN PATZNICK 1717 ASHLAND ROAD MANSFIELD, OHIO 44905 419-521-6262 OHIO EDISON CO. 2508 W. PERKINS AVENUE SANDUSKY, OHIO 44870 419-627-6887
WATER, SEWER & TRAFFIC	CITY OF SANDUSKY ATTN: JANE CULLEN 222 MEIGS STREET SANDUSKY, OHIO 44870 419-627-5932	CABLE	BUCKEYE CABLESYSTEM ATTN: DOUGLAS VAUGHN 4818 ANGOLA ROAD TOLEDO, OHIO 43615 419-724-3769
PHONE	AT&T OHIO ATTN: ROB FEY 130 N. ERIE STREET, ROOM 206 TOLEDO, OHIO 43604 419-245-5004 FRONTIER COMMUNICATIONS ATTN: DEBORAH HARGROVE 83 TOWNSEND AVENUE NORWALK, OHIO 44857 419-744-3617 HLG ENGINEERING (AT&T LONG DISTANCE) ATTN: ED HUGHES 5980-G WILCOX PLACE DUBLIN, OHIO 43016 614-760-8320	WATER & SEWER	ERIE COUNTY D.O.E.S. ATTN: BILL FLECK 554 RIVER ROAD, P.O. BOX 469 HURON, OHIO 44839 419-433-7303 X224
			PERKINS TOWNSHIP 5420 MILAN ROAD SANDUSKY, OHIO 44870 419-609-1433 ERIC B DODRILL, P.E., P.S.
			ERIE COUNTY ENGINEER'S OFFICE 2700 COLUMBUS AVENUE SANDUSKY, OHIO 44870 419-627-7710
		WATER	NASA GLENN RESEARCH CENTER PLUMBROOK 21000 BROOPARK ROAD CLEVELAND, OH 44135 216-433-2331

NOTES: *THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.*

LIMITED ACCESS DECLARATION

PORTIONS OF THIS IMPROVEMENT ARE ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND SECTIONS OF THIS PROJECT HAVE BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE REVISED CODE OF OHIO.

STRUCTURE KEY

RESIDENTIAL
COMMERCIAL
OUT-BUILDING

CERTIFICATION

I HEREBY DECLARE THAT THE CENTERLINE PLAT AND RIGHT-OF-WAY PLANS FOR THIS PROJECT WERE PREPARED FOR THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) DISTRICT THREE BETWEEN FEBRUARY, 2013 AND MAY, 2013.

THE LOCATION OF THE EXISTING CENTERLINE OF SURVEY, ROAD RIGHT-OF-WAYS, AND PROPERTY LINES AS IDENTIFIED HEREIN WERE PERFORMED UNDER MY DIRECT SUPERVISION AND CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE SECTION 4733-37, COMMONLY KNOWN AS THE MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO, UNLESS NOTED OTHERWISE.

DANA A. PARSELL, P.S.
OHIO PROFESSIONAL SURVEYOR NO.7931
POGGEMEYER DESIGN GROUP, INC.
1168 NORTH MAIN STREET
BOWLING GREEN, OH 43402

09.12.2013
DATE

SURVEYORS SEAL:

STATE OF OHIO
DANA A PARSELL
S-7931
REGISTERED PROFESSIONAL SURVEYOR

SIGNED:
DATE:

FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED DAP
RIGHT OF WAY LEGEND SHEET
ERI-250-0.00
1 / 178
500 677

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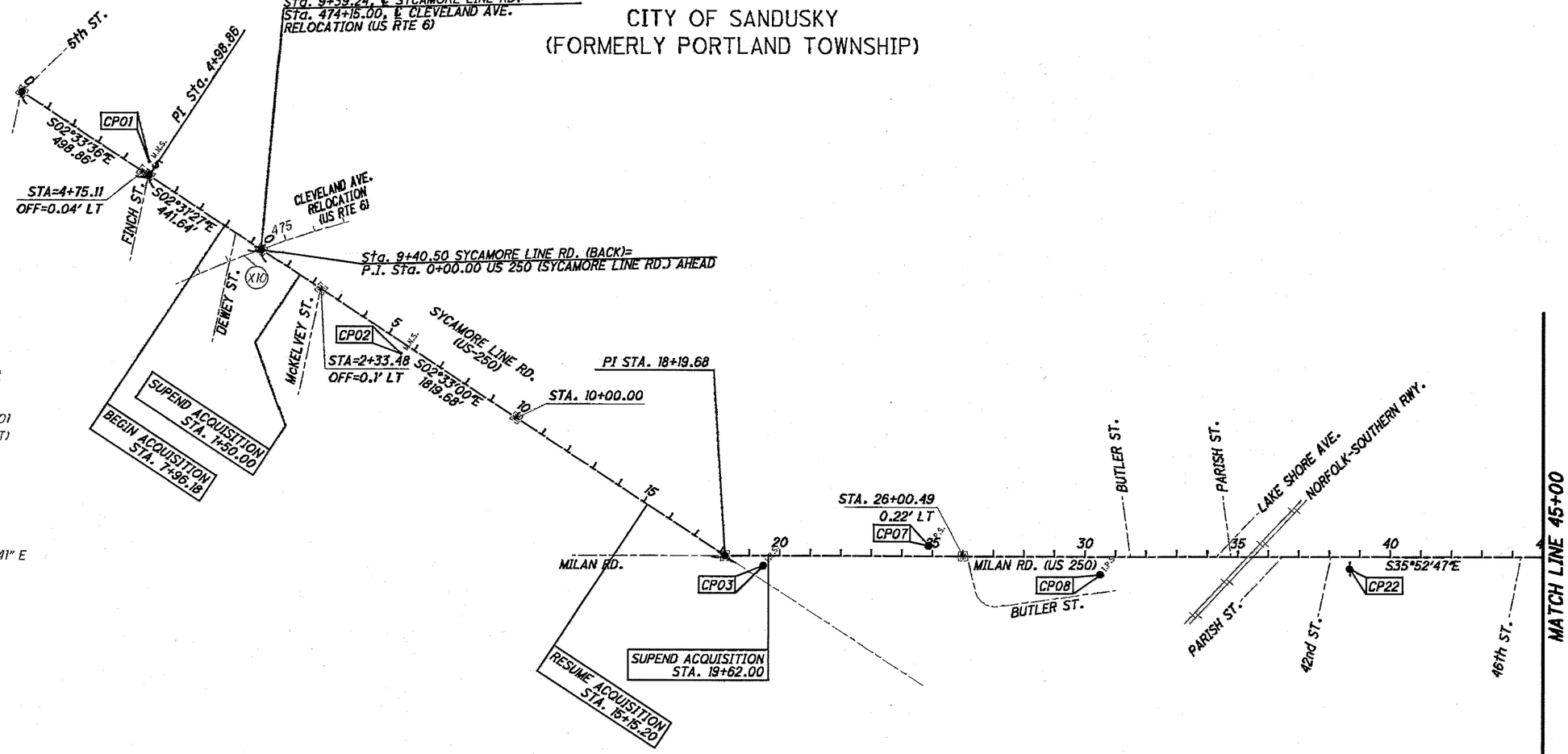
ERI-250-0.00

ERIE COUNTY
CITY OF SANDUSKY
(FORMERLY PORTLAND TOWNSHIP)



CURVE DATA FOR
℄ SURVEY US-250

X10

P.I. Sta. 474+16.01
Δ = 9° 00' 45" (RT)
Dc = 1° 29' 59"
R = 3,820.35'
T = 301.09'
L = 600.94'
E = 11.85'
C = 600.32'
C.B. = S 55° 56' 41" E

BASIS OF EXISTING RIGHT OF WAY

NOTE: THE CENTERLINE OF SURVEY AND RIGHT-OF-WAY LINES WERE ESTABLISHED FROM SURVEY MONUMENTATION REFERENCED FROM EXISTING CENTERLINE PLATS AND RIGHT-OF-WAY PLANS FROM THE FOLLOWING HIGHWAY PROJECTS:

- ERI-250-(0.00)-(0.90)
- ERI-250-1.14
- ERI-250-2.17
- ERI-250-8.763 (5.45)
- ERI-6-11.30
- ERI-C.R.10-3.69
- SANDUSKY NORWALK ROAD S.H. I.C.H. NO.294 SECTION A-2

BASIS OF BEARINGS / PROJECT CONTROL

THE BEARINGS IDENTIFIED HEREIN ARE RELATIVE TO GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (CORS96 ADJUSTMENT) DATUM BY A COMBINED SCALE, ELEVATION, AND METRIC CONVERSION PROJECT ADJUSTMENT FACTOR (P.A.F.) OF 3.28106655, AS ESTABLISHED FROM GPS OBSERVATIONS BY THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3 IN FEBRUARY, 2011. IN ORDER TO OBTAIN STATE PLANE GRID COORDINATES OR DISTANCES, DIVIDE THE PROJECT GROUND COORDINATES OR DISTANCES BY THE P.A.F.

ALL BEARINGS IDENTIFIED HEREIN ARE FOR PROJECT USE ONLY AND ARE USED FOR THE PURPOSE OF DESCRIBING HORIZONTAL ANGULAR MEASUREMENT.

NOTE:
UNLESS NOTED OTHERWISE THE CENTERLINES OF INTERSECTING STREETS ARE SHOWN GRAPHICALLY FOR GENERAL INFORMATION.

NOTES:

1) THE PROPOSED RIGHT-OF-WAY SHALL BE REFERENCED FROM THE CENTERLINE OF SURVEY.

2) SEE SHEET 8 OF 20 FOR PROJECT CONTROL POINTS.

3) SEE SHEET 9 OF 20 FOR ℄ CONTROL POINTS.

4) THE PLACING OF THE MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AND ARE TO BE SET, AS SHOWN, BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION.

5) CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRES PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

CERTIFICATION

I HEREBY DECLARE THAT THE CENTERLINE PLAT AND RIGHT-OF-WAY PLANS FOR THIS PROJECT WERE PREPARED FOR THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) DISTRICT THREE BETWEEN FEBRUARY, 2013 AND MAY, 2013.

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DANA A. PARSELL, P.S.
OHIO PROFESSIONAL SURVEYOR NO.7931
POGGEMEYER DESIGN GROUP, INC.
1168 NORTH MAIN STREET
BOWLING GREEN, OH 43402

05.20.2014
DATE

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- I.P.F. IRON PIPE FOUND
- I.P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- M.N.S. MAG NAIL SET
- M.N.F. MAG NAIL FOUND

RECEIVED _____, 20___
RECORDED _____, 20___
BOOK _____ PAGE _____
_____
COUNTY RECORDER

SURVEYORS SEAL

STATE OF OHIO
DANA A. PARSELL
S-7931
REGISTERED
PROFESSIONAL SURVEYOR

SIGNED: DA Parsell
DATE: 05.20.2014

HORIZONTAL SCALE IN FEET
0 100 200 400

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

CENTERLINE PLAT
STA. 0+00 TO STA. 45+00

ERI-250-0.00

1/20
2/178
501/677

5/18/2014 10:45:24 AM
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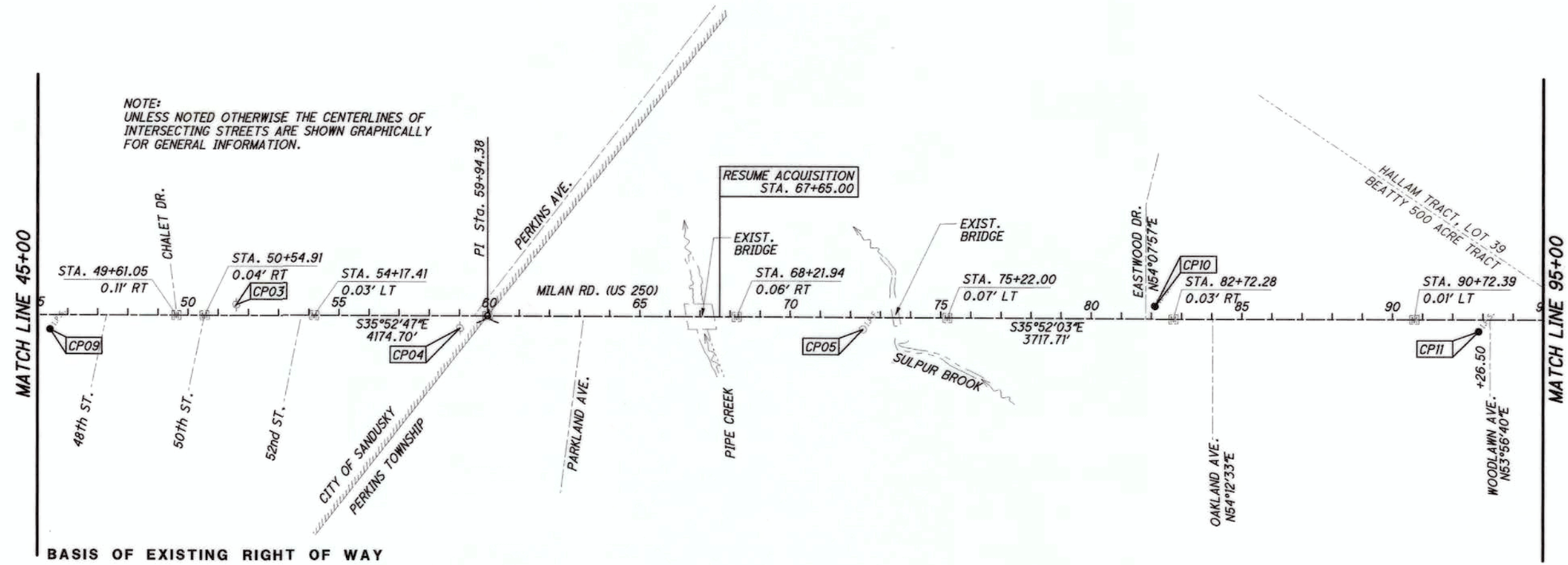
ERI-250-0.00

ERIE COUNTY
CITY OF SANDUSKY
PERKINS TOWNSHIP, SEC. 2
BEATTY 500 ACRE TRACT



BASIS OF EXISTING RIGHT OF WAY

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MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
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- P.K.F. P.K. NAIL FOUND
- M.N.S. MAG NAIL SET
- M.N.F. MAG NAIL FOUND

RECEIVED _____, 20__
RECORDED _____, 20__
BOOK _____ PAGE _____
COUNTY RECORDER

SURVEYORS SEAL

STATE OF OHIO · DANA A. PARSELL · S-7931 · REGISTERED PROFESSIONAL SURVEYOR

SIGNED: DAParsell
DATE: 09.12.2013

HORIZONTAL SCALE IN FEET
0 100 200 400

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

CENTERLINE PLAT
STA. 45+00 TO STA. 95+00

ERI-250-0.00

2/20
3/178
502/677

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ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOTS 7,9,31,32,33,34,35,39,
40,41,42,&43

CURVE DATA FOR ℄ SURVEY US-250
(C1)

P.I. Sta. 98+28.34
Δ = 1° 09′ 45″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 116.25′
L = 232.49′
E = 0.59′
C = 232.49′
C.B. = S 36° 26′ 55″ E

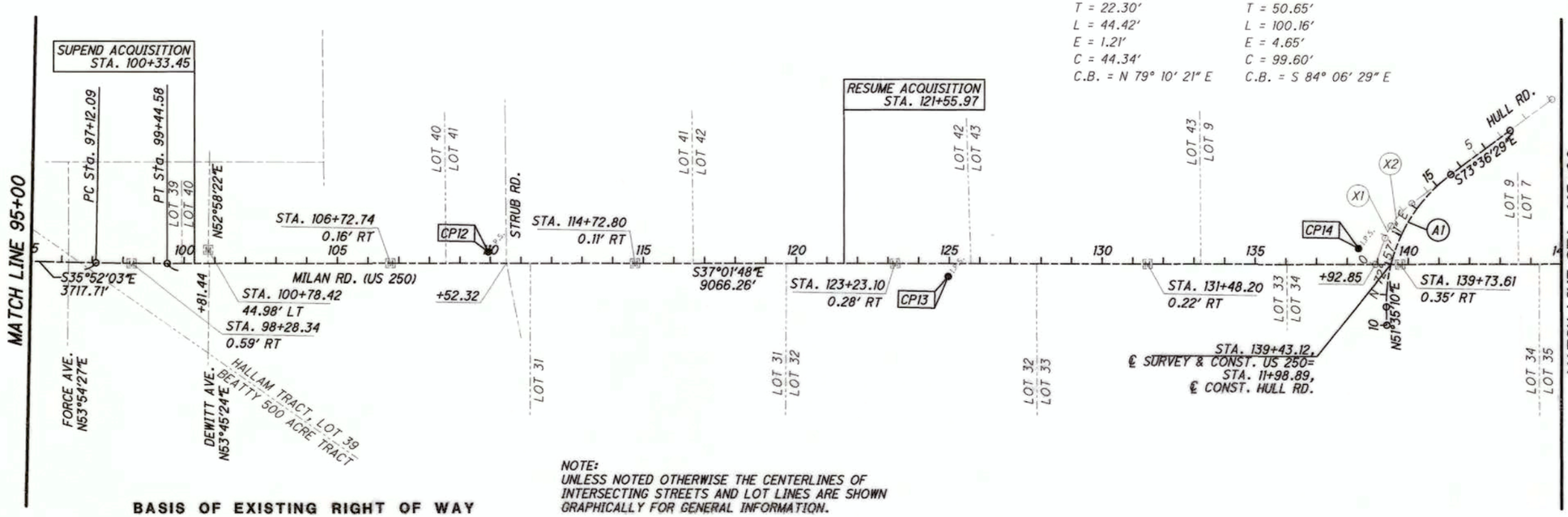
CURVE DATA FOR ℄ SURVEY HULL RD.

(X1)
P.I. Sta. 1+14.14
PC Sta. 0+91.84
PCC Sta. 1+36.26
Δ = 12° 26′ 20″ (RT)
Dc = 28° 00′ 00″
R = 204.63′
T = 22.30′
L = 44.42′
E = 1.21′
C = 44.34′
C.B. = N 79° 10′ 21″ E

(X2)
P.I. Sta. 1+86.91
PCC Sta. 1+36.26
PT Sta. 2+36.43
Δ = 21° 00′ 00″ (RT)
Dc = 20° 57′ 57″
R = 273.28′
T = 50.65′
L = 100.16′
E = 4.65′
C = 99.60′
C.B. = S 84° 06′ 29″ E

CURVE DATA FOR ℄ CONST. HULL RD.
(A1)

P.I. Sta. 13+30.10
PC Sta. 10+60.00
PT Sta. 15+58.36
Δ = 54° 48′ 22″ (RT)
Dc = 10° 59′ 50″
R = 521.00′
T = 270.10′
L = 498.36′
E = 65.85′
C = 479.58′
C.B. = N 78° 59′ 21″ E



NOTE:
UNLESS NOTED OTHERWISE THE CENTERLINES OF INTERSECTING STREETS AND LOT LINES ARE SHOWN GRAPHICALLY FOR GENERAL INFORMATION.

BASIS OF EXISTING RIGHT OF WAY

NOTE: THE CENTERLINE OF SURVEY AND RIGHT-OF-WAY LINES WERE ESTABLISHED FROM SURVEY MONUMENTATION REFERENCED FROM EXISTING CENTERLINE PLATS AND RIGHT-OF-WAY PLANS FROM THE FOLLOWING HIGHWAY PROJECTS:

- ERI-250-(0.00)-(0.90)
- ERI-250-1.14
- ERI-250-2.17
- ERI-250-8.763 (5.45)
- ERI-6-11.30
- ERI-C.R.10-3.69
- SANDUSKY NORWALK ROAD S.H. I.C.H. NO.294 SECTION A-2

BASIS OF BEARINGS / PROJECT CONTROL

THE BEARINGS IDENTIFIED HEREIN ARE RELATIVE TO GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (CORS96 ADJUSTMENT) DATUM BY A COMBINED SCALE, ELEVATION, AND METRIC CONVERSION PROJECT ADJUSTMENT FACTOR (P.A.F.) OF 3.28106655, AS ESTABLISHED FROM GPS OBSERVATIONS BY THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3 IN FEBRUARY, 2011. IN ORDER TO OBTAIN STATE PLANE GRID COORDINATES OR DISTANCES, DIVIDE THE PROJECT GROUND COORDINATES OR DISTANCES BY THE P.A.F.

ALL BEARINGS IDENTIFIED HEREIN ARE FOR PROJECT USE ONLY AND ARE USED FOR THE PURPOSE OF DESCRIBING HORIZONTAL ANGULAR MEASUREMENT.

NOTES:

1) THE PROPOSED RIGHT-OF-WAY SHALL BE REFERENCED FROM THE CENTERLINE OF SURVEY.

2) SEE SHEET 8 OF 20 FOR PROJECT CONTROL POINTS.

3) SEE SHEET 9 OF 20 FOR ℄ CONTROL POINTS.

4) THE PLACING OF THE MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AND ARE TO BE SET, AS SHOWN, BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION.

5) CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRES PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.R.F. IRON PIN FOUND
- I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- M.N.S. MAG NAIL SET
- M.N.F. MAG NAIL FOUND

RECEIVED _____, 20__
RECORDED _____, 20__
BOOK _____ PAGE _____
COUNTY RECORDER

SURVEYORS SEAL

STATE OF OHIO
DANA A. PARSELL
S-7931
REGISTERED PROFESSIONAL SURVEYOR

SIGNED: D A Parsell
DATE: 09-12-2013

HORIZONTAL SCALE IN FEET
0 100 200 400

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

CENTERLINE PLAT
STA. 95+00 TO STA. 145+00

ERI-250-0.00

3/20
4/178
503/677

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ERIE COUNTY

PERKINS TOWNSHIP, SEC. 2

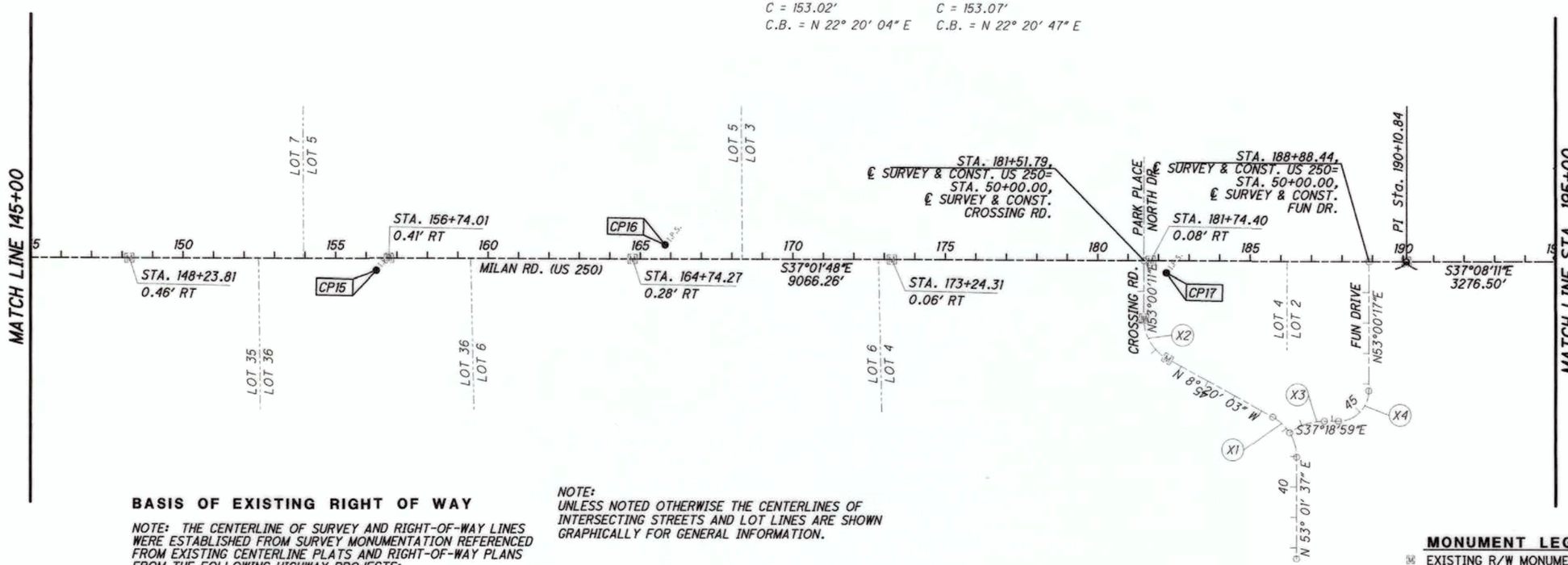
HALLAM TRACT LOTS 2,3,4,5,6,7,35,&36

CURVE DATA FOR
℄ SURVEY CROSSING RD.

X1	X2
P.I. Sta. 47+39.35	P.I. Sta. 41+86.24
PC Sta. 40+97.24	PC Sta. 46+50.40
PT Sta. 42+57.88	PT Sta. 48+10.98
Δ = 61° 20′ 13″ (RT)	Δ = 61° 21′ 39″ (LT)
Dc = 38° 11′ 50″	Dc = 38° 11′ 50″
R = 150.00′	R = 150.00′
T = 88.95′	T = 88.99′
L = 160.58′	L = 160.64′
E = 24.39′	E = 24.41′
C = 153.02′	C = 153.07′
C.B. = N 22° 20′ 04″ E	C.B. = N 22° 20′ 47″ E

CURVE DATA FOR
℄ SURVEY FUN DR.

X3	X4
P.I. Sta. 43+16.03	P.I. Sta. 45+20.66
PC Sta. 42+52.99	PC Sta. 46+50.40
PT Sta. 43+74.72	PT Sta. 45+77.74
Δ = 36° 45′ 19″ (RT)	Δ = 89° 40′ 44″ (LT)
Dc = 30° 11′ 38″	Dc = 57° 17′ 45″
R = 189.76′	R = 100.00′
T = 63.04′	T = 99.44′
L = 121.73′	L = 156.52′
E = 10.20′	E = 41.03′
C = 119.65′	C = 141.02′
C.B. = S 55° 41′ 38″ E	C.B. = S 82° 09′ 21″ E



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- SANDUSKY NORWALK ROAD S.H. I.C.H. NO.294 SECTION A-2

BASIS OF BEARINGS / PROJECT CONTROL

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RECEIVED _____, 20____
RECORDED _____, 20____
BOOK _____ PAGE _____
COUNTY RECORDER

SURVEYORS SEAL

STATE OF OHIO
DANA A PARSELL
S-7931
REGISTERED PROFESSIONAL SURVEYOR

SIGNED: DAParsell
DATE: 09.12.2013

HORIZONTAL SCALE IN FEET
0 100 200 400

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

CENTERLINE PLAT
STA. 145+00 TO STA. 195+00

ERI-250-0.00

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5 / 178
504 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & SEC. 2
HALLAM TRACT LOT 1
860 ACRE TRACT LOTS 3&4
1620 ACRE TRACT LOTS 8,9,&10

NOTES:

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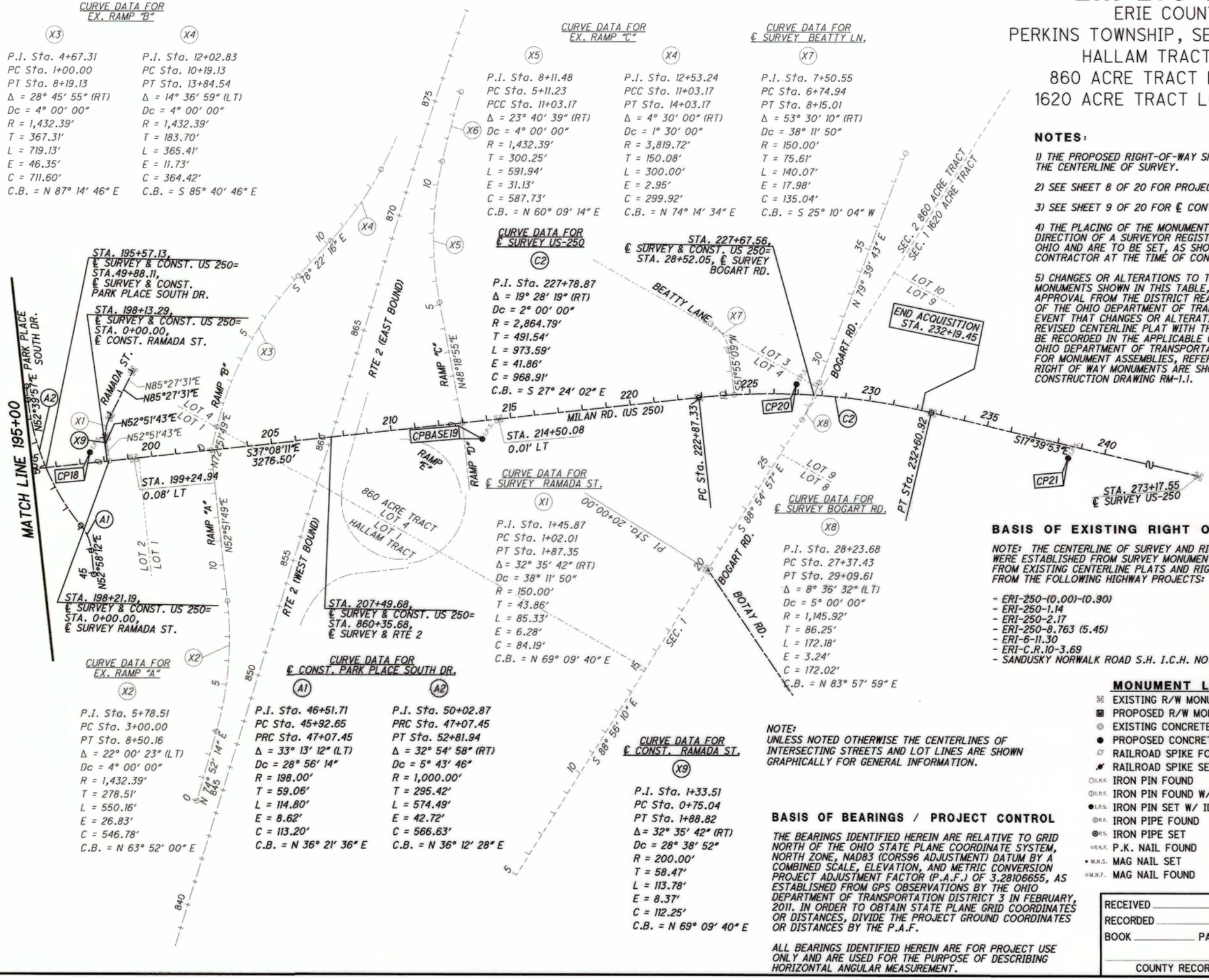

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- SANDUSKY NORWALK ROAD S.H. I.C.H. NO.294 SECTION A-2

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⊙I.P.F.	IRON PIN FOUND W/ ID CAP
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◎I.P.F.	IRON PIPE FOUND
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⊙M.N.F.	MAG NAIL FOUND

RECEIVED _____, 20__
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COUNTY RECORDER

SURVEYORS SEAL

STATE OF OHIO
DANA A PARSELL
S-7931
REGISTERED PROFESSIONAL SURVEYOR

SIGNED: Dana A Parsell
DATE: 09.12.2013

HORIZONTAL SCALE IN FEET
0 100 200 400

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

CENTERLINE PLAT
STA. 195+00 TO STA. 245+00

ERI-250-0.00

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6 / 178
505 / 677

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

REFERENCE SURVEY DOCUMENTS	LOCATION	PLAT VOL.	PG.	DATE
A.W. Hendry's Subdivision of Outlot 10	Part of Outlot 10 Portland Township	1	55	Dec. 1871
Geo. H. Dewitt's Subdivision No. 5	Part of Section 2, Perkins Township	4	20	Aug. 1897
Boslow'S Subdivision	Part of Beatty 500 Acre Tract, Sec. 2	4	17	Apr. 1898
Prospect Hts. Allotment being D. S. Chamber's Subd.	Pt. of Beatty 500 Acre Tract Sec. 2	6	2	May 1906
L. Trageser's Subdivision	Part of Beatty 500 Acre Tract, Sec. 2	6	7	Dec. 1906
Sturginger's Allotment	Part of the Beatty 500 Acre Tract Sec. 2	6	63	Oct. 1915
McKelvey's Addition	Part of O. L. 13-15	2	7	Dec. 1919
Original Plat of Portland Twp. (transcribed) by L. A. Schultz	Map of Portland Twp.	1	66	Feb. 1920
Primiano Casadie's Subdivision	Part of O. L. 24	7	21	Sep. 1920
Geo. H. Dewitt's Subdivision	Part of O. L. 11 & 12	5	3	Apr. 1921
Chamber of Commerce Subdivision	Part of O. L. 33-36	5	7	Apr. 1921
Plum Brook Subdivision No. 2 by Doyle (Vacated)	Part of Section 1, Perkins Township	12	14	Sep. 1947
Peter & Kob's Subdivision by Hemrick	Part of Lot 3 Hallam Tract, Sec. 2	15	4	Feb. 1955
Ranchwood Subdivision No. 1	Pt. of McMahon Estate Beatty Tract Sec. 2	15	25	Sep. 1955
Selhan Corp. Subdivision No.1	Part of Lot 39 Hallam Tract Sec. 2	16	40	Jun. 1957
Ranchwood Subdivision No. 3	Part of O. L. 39	19	15	May 1960
Survey for Andreas Gross by Hartung	Lots 38-40 Oakland Park	0	0	Jul. 1965
Galloway Road Estates Subdivision No. 1	Parts Lots 2 & 3 Hallam 860 Acre Tract	20	9	Oct. 1966
Galloway Road Estates Subdivision No. 2	Lots 2 & 3 Hallam 860 Acre Tract	20	29	Jul. 1967
Dedication Plat of Ramada Street by Lichtenwalter	Part of Lots 3 & 4 Hallam Tract, Sec. 2	0	0	May 1968
Survey of 1.1682 Acres by Raquet	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Sep. 1969
Sketch Plan, Jos. Yost 5.2242 & 0.5785 Ac. by Baharoglu	Part Lot 9, Sec. 1	0	0	Apr. 1970
Sketch of 4 Proposed Conveyances for Verble by Hemrick	Part 180 Ac. Lot, 400 Ac. Tract, Sec. 1	0	0	May 1970
Sketch of Proposed Conveyance for Stuckey by Hemrick	Part 180 Ac. Lot, 400 Ac. Tract, Sec. 1	0	0	Mar. 1971
Resubdivision Plat Part Selhan Corp. Subd. No. 1	Part of the Beatty 500 Acre Tract Sec. 2	21	5	May 1972
Survey of Ponderosa Property by Hemrick	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Jan. 1974
November Subdivision	Part of the Beatty 500 Acre Tract Sec. 2	21	69	Apr. 1974
Plat No. 1 of Deerfield Subdivion	Part of Lots 7 & 8, Sec. 1	21	89	May 1974
Survey for Sandusky Mall 1.238 & 0.625 Acres by Burin	Part of Lot 9 Hallam Tract, Sec. 2	0	0	Jul. 1974
Survey for Jackson B. Wolff 5.3945 Acres by Reel	Part of Lots 1 & 2 Hallam Tract, Sec. 2	0	0	Sep. 1974
Survey for Klingshirn Corp. 0.646 Acres by Hartung	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Oct. 1974
Survey for Schlessman 0.8281 & 0.9199 Acre by Hemrick	Part Lots 6 & 7, 1620 Acre Tract Sec. 1	0	0	May 1976
Sketch for V. J. Faulkner 0.957 Acre by Hartung	Part 400 Acre Tract, Sec. 1	0	0	Aug. 1976
Sketch for McVetta 0.458 Acre by Hartung	Part Lot 9, Sec. 1	0	0	Nov. 1976
Survey for Owen Reed Parcels A - C by Hartung	Part Lot 5, 1620 Acre Tract Sec. 1	0	0	Nov. 1976
Sketch for McVetta 0.0.43 Acre by Hartung	Part Lot 9, Sec. 1	0	0	May 1977
Survey for Bonanza	Part of Lot 39 Hallam Tract Sec. 2	0	0	Aug. 1977
Sandusky Mall Property Site Plan by Cafaro	Part of Lots 9 & 43, Hallam Tract, Sec. 2	0	0	Sep. 1977
Survey, Paul & Blade 3.6946 Ac. & Parcel A - C by Hartung	Part Lot 6, 1620 Acre Tract Sec. 1	0	0	Oct. 1977
Sandusky Mall Corrected Plat by Campbell	Part of Lot 9 & 43 Hallam Tract, Sec. 2	23	9	Sep. 1978
Sketch of J. Roy Seidel 4.511 Acres by Baharoglu	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Dec. 1979
Parcel Split to Taco Bell by Frank	Part McMahan Subd. No. 2	0	0	Mar. 1980
Survey for Robert A. Schaefer 0.9315 Ac. By Hartung	Part 400 Acre Tract, Sec. 1	0	0	Aug. 1980
Survey for Hoover-Mautz 0.0324 & 0.0161 Acre by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Aug. 1980
Survey of Bob Evans 1.3274 Acres by Baharoglu	Part of Lot 32 Hallam Tract, Sec. 2	0	0	Dec. 1981
Survey for Willis & Turnley 0.3126 Acres by Hetrick	Part of Lots 2 & 4 Hallam Tract, Sec. 2	0	0	Jun. 1982
Survey of C. C. & S. Restaurant by Baharoglu	Part Lot 33 Hallam Tract Sec. 2	0	0	Nov. 1982
Survey of 1.0235 & 0.7371 Acres by Baharoglu	Part of Lot 33 Hallam Tract, Sec. 2	0	0	Nov. 1982
Survey for Michael, Phillip & Joseph Corso by Hetrick	Part of O. L. 39 Hallam Tract	0	0	Dec. 1982
Survey for William Smith 0.497 Acre by Buser	Part of Beatty 500 Acre Tract, Sec. 2	0	0	May 1983
Survey of Koch Prop. 3.5030 & 3.9257 Acres by Baharoglu	Part of Lots 3 & 4 Hallam Tract, Sec. 2	0	0	Jun. 1983
Sketch Plan of Wagner Quarries 5.1000	Part of Lots 32 - 33 Hallam Tract Sec. 2	0	0	Oct. 1983
Survey for Cafaro Co. 1.2206 Acres by Baharoglu	Part of Lot 9 Hallam Tract, Sec. 2	0	0	Apr. 1984
Sketch Plan for Turner-Engle 0.7525 Acres by Baharoglu	Part of Lots 32 - 33 Hallam Tract Sec. 2	0	0	Sep. 1984
Survey of Ramada Inn 4.4025 Acres by Baharoglu	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Mar. 1985
Wagner Quarries Subdivision #1A by Baharoglu	Part of Lots 32 & 33 Hallam Tract	26	43	Oct. 1985
Survey for Austin & Kath. Waldock 0.6770 Acre by Hartung	Part of Section 1, Perkins Township	0	0	Dec. 1985
McMahon's Subdivision No. 2	Part of Beatty 500 Acre Tract, Sec. 2	0	0	May 1986
Survey for Rolland Schlessman 1.5510 Acres by Buser	Part Lot 16, Sec. 4	0	0	Aug. 1986
Survey for Goodyear Tire 0.8347 Acres by Baharoglu	Lot 15 Wagner Quarries Subd. 1A, Sec. 2	0	0	Nov. 1986
Survey for Roger & Diane Bradley 0.8454 Acres by Buser	Part of Section 1, Perkins Township	0	0	Jan. 1987
Survey for Leonard Longer 3.5299 Acres by Hartung	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Mar. 1987
Survey for Perkins Twp. Tr. 2.5346 & 0.9685 Ac. by Hartung	Part of Lot 3 Hallam Tract, Sec. 2	0	0	May 1987
Timber Lake at the Woods Condominiums	Part of Lots 5 & 7 Hallam Tract, Sec. 2	27	88	Nov. 1987
Survey for Jeanne Lyman Estate 1.1493 Ac. by Baharoglu	Part of Outlot 2, Sec. 1	0	0	Nov. 1987

REFERENCE SURVEY DOCUMENTS	LOCATION	PLAT VOL.	PG.	DATE
Zoning Plat of 101.0024 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Nov. 1987
Survey of Park Place Shop. Ctr. 39.4245 Ac. by Hancock	Part of Lots 3 & 4 Hallam Tract, Sec. 2	0	0	Mar. 1989
Survey of Goodnight Inn 0.8909 Acre by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	May 1989
Survey of Port Lawrence Title 0.8636 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Jul. 1989
Survey of Port Lawrence Title 0.4248 Acres by Hancock	Part of Lot 4 Kob's Subdivision	0	0	Aug. 1989
Survey for Fox 18.0070 Acres by Hancock	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Aug. 1989
Survey for Brentgartner 0.4298 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Aug. 1989
Survey of Easements	Part of Lot 1 Kob's Subdivision	0	0	Aug. 1989
Survey for Port Lawrence 47.6204 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Oct. 1989
Survey of 0.2394 Acre by Williams	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Dec. 1989
Survey for Rich. & Rowdy Sherer 4.4179 Acres by Hartung	Part of Lot 26 Hallam Tract, Sec. 2	0	0	May 1990
Survey for Schlessman Parcels A - E by Reel	Part Lot 7, 1620 Acre Tract Sec. 1	0	0	Jul. 1990
Survey for Richard Stanley by Hancock	Part Lot 7, 1620 Acre Tract Sec. 1	0	0	Nov. 1990
Survey for Port Lawrence Title 6.3472 Acres by Baharoglu	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Jun. 1991
Survey for Robert A. Schaefer 0.8535 Acre by Hartung	Part 400 Acre Tract, Sec. 1	0	0	Nov. 1991
Survey for Pier 1 Imports 1.1708 & 1.1755 Ac. by Wheeler	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Dec. 1991
Survey for George Kramer 36.8523 Acres by Hancock	Part of Lots 2 & 10 Hallam Tract, Sec. 2	0	0	Mar. 1992
Survey of Road Easement 1.0193 Acres by Hartung	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Aug. 1992
Survey of Southwood Raquet 0.95 & 4.9145 Ac. by Hartung	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Aug. 1992
Survey for Stratton-Marlow 0.0445 &0.0374 Ac. by Reel	Part Lot 5, 1620 Acre Tract Sec. 1	0	0	Aug. 1992
Survey by Creech	Part of Lots 5 & 6 Deer Walk Subd. No. 1	0	0	Sep. 1992
Survey of Goldie Brennan Estate 4 at 1.0000 Acre by Feick	Part of Lots 9 & 10, 1620 Acre Tract Sec.1	0	0	Sep. 1992
Hoffman's Proposed Subdivision by Schultz	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Dec. 1992
Survey of Holiday Inn(1.8149, 4.4154, 0.9647Ac) by Feick	Part of Lots 1 & 2 Hallam Tract, Sec. 2	0	0	Mar. 1993
Survey for Ohio Edison by Feick	Part of Lot 2 Sec. 2 & Lots 9-10 Sec. 1	0	0	Mar. 1993
Survey for Norman Stamm 0.7893 Acre by Hartung	Part Lot 5, 1620 Acre Tract Sec. 1	0	0	May 1993
Survey for Shoney's 1.4525 Acres by Hartung	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Jun. 1993
Survey for Zvosec 0.0752 Acre by Faetanini	Part Lot 2, 1620 Acre Tract, Sec. 1	0	0	Sep. 1993
Survey for Meijer Parcels 1 - 4 by SSOE	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Feb. 1994
Survey, Blade Estate 3.6946 Ac. & Parcel A - C by Hartung	Part Lot 6, 1620 Acre Tract Sec. 1	0	0	May 1994
Survey of 0.3388 Acre by Creech	Part of Beatty 500 Acre Tract, Sec. 2	0	0	May 1994
Survey for Devanna(0.9567,0.9173,0.9167Ac)by Buser	Part of 120 Ac. Lot in 400 Ac. Lot, Sec. 1	0	0	Jun. 1994
Survey for Nat'l. City Bank & Fanny Baer's by Hancock	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Sep. 1994
Survey of Park Place 85.7175 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Sep. 1994
ALTA Survey for Fanny Baer's by Hancock	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Nov. 1994
Survey of Goofy Golf(1.6684 & 0.4821 Ac.) by Feick	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Dec. 1994
Survey for Sandusky Ctr. Part. 2.2451 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Dec. 1994
Survey for Southwest Dining 2.2451 Acres by Hancock	Pt. Kob's Subd. & Lot 3 Hallam Tr., Sec. 2	0	0	Dec. 1994
Survey for Gordon Foods 2.3492 Acres by Hartung	Part of Lots 40 - 41 Hallam Tract, Sec. 2	0	0	May 1995
Survey of 1.0162 Acre by Williams	Part of Lot 13 Hallam Tract, Sec. 2	0	0	Jul. 1995
Survey forPeter H. Hanley 1.6830 Acres by Baharoglu	Part of Lot 29 Hallam Tract, Sec. 2	0	0	Sep. 1995
Survey forPeter H. Hanley 1.0101 Acres by Baharoglu	Part of Lot 29 Hallam Tract, Sec. 2	0	0	Sep. 1995
Survey for John P. Cook MD Parcels A - D by Hartung	Part Lot 3, 1620 Acre Tract, Sec. 1	0	0	Oct. 1995
Survey for Schoenegge 12.3572 & 2.3262 by Hancock	Part Lots 9 & 10, 1620 Acre Tract Sec. 1	0	0	Dec. 1995
Survey 0.2388 Acres by Prosser	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Feb 1996
Survey for The Chapel in Huron 4.4505 Acres by Buser	Part of Lot 37 Hallam Tract, Sec. 2	0	0	Jun. 1996
Survey of 2.2550 Acres by Feick	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Jul. 1996
Survey for Park Place Shop. Ctr. 1.1756 Acres by Heartland	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Sep. 1996
Dedication Plat of Fun Drive	Part of Lot 2 Hallam Tract, Sec. 2	38	69	Dec. 1996
Survey for William H. Smith Jr. 0.8473 Acre by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Jan. 1997
Survey for William H. Smith Jr. 9.2818 Acre by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Jan. 1997
Survey of RAE Enterprises by Feick	Part of Lot 41 Hallam Tract, Sec. 2	0	0	Mar. 1997
Survey, W.H. Smith Jr. 0.0517 & 0.1034 Acre by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	May 1997
Survey for Davlin to Potz 2.9421 Acres by Feick	Part of Lot 5, Sec. 2	0	0	Jul. 1997
Survey of Easements 1 - 3 by Williams	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Jul. 1997
Survey of 0.5573 Acre by Williams	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Jul. 1997
Survey of 0.6235 Acres by Buser	Part Lot #5 Knopf & Marshall's Subd.	0	0	Aug 1997
Survey for Diane Thompson 5.3917 Acres by Feick	Pt. O. L. 40 Hallam Tract, Sec. 2	0	0	Sep. 1997
Survey of Park & Fun by Feick	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Oct. 1997
Survey for Ted Meecha 1.0435 Acres by Hancock	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Oct. 1997
Survey of Shopping Ctr. Parcel 3 & 4 by Hancock	Part of Lot 4, 860 Acre Tract, Sec. 2	0	0	Oct. 1997
ALTA Survey of Park Place Parcels 1 - 5 by Hancock	Part of Lots 3 & 4 Hallam Tract, Sec. 2	0	0	Oct. 1997
Survey of Bechtel Property by Hartung	Part of L. Trageser's & Boslow's Subds.	0	0	Dec. 1997
Survey of Park Place Parcels 3 - 5 by Hancock	Part of Lots 3 & 4 Hallam Tract, Sec. 2	0	0	Dec. 1997
Timber Lake Commons Condominium	Part of Lot 7 Hallam Tract, Sec. 2	38	11	Mar. 1998

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

REFERENCE SURVEY DOCUMENTS	LOCATION	PLAT VOL.	PG.	DATE
Survey of 0.1862 Acre by Williams	Part of Lot 13 Hallam Tract, Sec. 2	0	0	Aug. 1998
Survey of Goofy Golf(1.7019,0.0684 & 0.4137 Ac.) by Feick	Part of the Beatty 500 Acre Tract Sec. 2	0	0	Sep. 1998
ALTA Survey for Great Lakes Hospitality by Brunkhorst	Part of Lot 7 Hallam Tract, Sec. 2	0	0	Oct. 1998
Survey for Waldock 1.7764 Acres by Buser	Part of Section 1, Perkins Township	0	0	Jan. 1999
Survey for William H. Smith Jr. 0.7475 Acre by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Apr. 1999
Survey for William H. Smith Jr. 0.5395 Acre by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	May 1999
Survey for AJS Sand. Ltd. 0.4591 Acre by Hancock	Part Lot 6, 1620 Acre Tract Sec. 1	0	0	Jun. 1999
Survey for Meijer 1.6667 Acres by SSOE	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Sep. 1999
Survey for Meijer Drainage Easement by SSOE	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Sep. 1999
ALTA Survey for Bob Evans 2.7016 Acres by Feller Finch	Part of Lot 34 Hallam Tract, Sec. 2	0	0	Dec. 1999
Survey for Michael, Ella & Joseph Corso by Hartung	Part Lot 39 Hallam Tract Sec. 2	0	0	Mar. 2000
Survey for Mielke Trust 0.2449 & 2.5129 Acres by Hartung	Part of Beatty 500 Acre Tract, Sec. 2	0	0	Jun. 2000
Survey for W.Waldock Sr. 0.5395 & 0.7223 Acre by Hartung	Part of Lot 24 Hallam Tract, Sec. 2	0	0	Jun. 2000
Survey for Mary C. Herber Estate Parcels A - C by Hartung	Part 180 Ac. Lot, 400 Ac. Tract, Sec. 1	0	0	Sep. 2000
Survey for Fun Center Retail 2.7280 & 0.3293 Ac. by Burkin	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Oct. 2000
Dedication Plat for Fun Drive Phase II by Burkin	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Oct. 2000
Survey for Steak'N Shake 0.2667 Acres by McCartney	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Mar. 2001
Survey of Outback Plaza Site Utility Plan by Burkin	Part of Lot 3 Hallam Tract, Sec. 2	0	0	May 2001
Survey for Great Bear Lodge 0.2667 Acres by Poggemeyer	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Jun. 2001
Survey of Dusk to Dawn 0.5739 Acres by Hancock	Part of Lot 5, Hallam Tract, Sec. 2	0	0	Oct. 2001
Survey of Park & Fun Tracts A - D by Tectonic	Part of Lots 2,4,10 & 11 Hallam Tr., Sec. 2	0	0	Oct. 2001
Survey of Outback Bridge Easements by Burkin	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Nov. 2001
Survey for RGS 1.9658 Acres by Burkin	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Feb. 2002
Survey of Hoyt Enterprises 4.3104 & 5.5754 Ac. by Burkin	Part of Lot 3 Hallam Tract, Sec. 2	0	0	May 2002
Survey of Hoyt Enterprises 0.3913 Acres by Burkin	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Jun. 2002
ALTA Survey for Wal-Mart 19.8989 Acres by Barnhart	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Jun. 2002
Survey of Hoyt Enterprises 0.3913 Acres by Burkin	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Jun. 2002
Survey for Sand. Cr. 14.2400 & 50.1093 Ac. by Baharoglu	Part of Lots 2,4,10 & 11 Hallam Tr., Sec. 2	0	0	Nov. 2002
Survey for Sandusky Crossing 12.9735 Ac. by Baharoglu	Part of Lots 2,4,10 & 11 Hallam Tr., Sec. 2	0	0	Nov. 2002
Survey for Wagner Quarries 21.5407 Acres by Baharoglu	Part of Lots 6, 35 & 36 Hallam Tract Sec. 2	0	0	Jul. 2003
Dedication Plat of Crossing Road by Baharogul	Part of Lots 2, 4 & 10 Hallam Tract, Sec. 2	0	0	Oct. 2003
Survey for BCC Sandusky Parcels 1 - 7 by Baharoglu	Part of Lots 2,4,10 & 11 Hallam Tr., Sec. 2	0	0	Nov. 2003
Survey for Hoyt Ent. 1.3274 Acres by Frederick	Part of Lot 32 Hallam Tract, Sec. 2	0	0	Jan. 2004
Dedication Plat of Fun Drive	Part of Lot 2 Hallam Tract, Sec. 2	44	93	Jan. 2004
Survey for Carmelo Ruta 2.8850 & 0.3182 Ac. by Hancock	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Feb. 2004
Survey of Hampton Inn 2.1528 Acres by Frederick	Part of Lots 2 & 4 Hallam Tract, Sec. 2	0	0	Mar. 2004
Survey for BCC Sandusky 1.7333 Acres by Baharoglu	Part of Lot 4, Hallam Tract, Sec. 2	0	0	May 2004
Survey for Hoyt Ent. 2 Parcels at 0.5142 Ac. by Frederick	Part of Lot 6, Hallam Tract, Sec. 2	0	0	Jun. 2004
Survey for BCC Sandusky 1.0002 Acres by Baharoglu	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Jul. 2004
Survey for Bill Schaeffer 0.3737 & 0.2071 Acre by Hancock	Part of Lot 26 Hallam Tract, Sec. 2	0	0	Aug. 2004
Survey for BCC Sand.(Kohl's) 7.2244 Acres by Baharoglu	Part of Lot 4, Hallam Tract, Sec. 2	0	0	Sep. 2004
Survey for BCC Sand(Kohl's,HomeDepot,Sam's)Baharoglu	Part of Lots 2,4,10 & 11 Hallam Tr., Sec. 2	0	0	Jul. 2005
Survey for Hoyt Ent. 4.3104 Acres by Frederick	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Sep. 2005
Survey for DSC Ltd. 1.7606 Acres by Buser	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Oct. 2005
Survey for Sam's Club 18.1040 Acres by Atwell-Hicks	Part of Lots 2 & 10 Hallam Tract, Sec. 2	0	0	Oct. 2005
Survey for Brad C. Mathewson 0.5277 Acres by Hartung	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Apr. 2006
Survey for Brad C. Mathewson 1.4118 Acres by Hartung	Part of Lot 3, Sec. 2 & Lots 7-8 Kob Subd.	0	0	Apr. 2006
Survey for DSC Ltd. 1.1003 Acres by Buser	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Apr. 2006
Survey for Hoyt Enterprises 3.4864 Acres by Frederick	Part of Lot 5 Hallam Tract, Sec. 2	0	0	Jun. 2006
ALTA Survey for AHG Landhldgs. 1.0302 Ac. by Baharoglu	Part of Lot 2 Hallam Tract, Sec. 2	0	0	Aug. 2007
Survey for JRSMI 16.7805 Acres by Bohning	Part of Lots 39 - 41 Hallam Tract, Sec. 2	0	0	Jan. 2008
Lakecrest Town Center Subdivision by Bohning	Part of Lots 39, 40, & 41 Hallam Tract	48	85	Jan. 2008
Survey of 0.4649 & 1.0235 Ac. by Frederick	Part of Lot 33 Hallam Tract, Sec. 2	0	0	Sep. 2008
Ded. Plat of Prolongation of Crossing Rd. by Atwell-Hicks	Part of Lots 2, 4 & 10 Hallam Tract, Sec. 2	0	0	Oct. 2008
Survey for Giovanna Ruta 1.2715 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Apr. 2010
Survey for Giovanna Ruta 2.3549 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Apr. 2010
Survey for Giovanna Ruta 0.7618 Acres by Hancock	Part of Lot 3 Hallam Tract, Sec. 2	0	0	Jan. 2011

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

*℄ SYCAMORE LINE RD

PROJECT GROUND COORDINATES - US SURVEY FEET PRIMARY PROJECT CONTROL POINTS PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS) BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655							PROJECT CONTROL POINTS	STATE PLANE GRID COORDINATES - METERS PRIMARY PROJECT CONTROL POINTS HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE	DESCRIPTION						
CP01	*4+75.25	-38.91	649162.1109	1914502.8600	591.18	MAGS	MAG NAIL SET	CP01	197850.9431	583500.1613	180.19	649115.9692	1914366.7793
CP02	5+69.64	31.83	648125.0888	1914478.0378	595.98	MAGS	MAG NAIL SET	CP02	197534.8806	583492.5961	181.66	648079.0208	1914341.9589
CP03	51+59.48	-35.45	644192.4070	1916551.5898	588.60	RSPK	SURVEY MARK SPIKE FOUND	CP03	196336.2820	584124.5711	179.41	644146.6185	1916415.3635
CP04	59+02.53	40.62	643545.7679	1916925.4378	585.94	RSPK	SURVEY MARK SPIKE FOUND	CP04	196139.2000	584238.5121	178.59	643500.0254	1916789.1850
CP05	72+41.61	39.79	642461.1162	1917710.7119	586.26	IPIN	5/8" IRON PIN FOUND CAPPED 'ODOT CONTROL'	CP05	195808.6210	584477.8471	178.69	642415.4508	1917574.4032
CP06	19+45.53	33.06	646756.3538	1914612.4270	599.35	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP06	197117.7190	583533.5551	182.68	646710.3831	1914476.3386
CP07	24+88.55	-33.62	646355.4534	1914984.7099	599.75	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP07	196995.5330	583647.0190	182.80	646309.5112	1914848.5950
CP08	30+50.00	58.66	645846.4550	1915238.9926	608.89	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP08	196840.4010	583724.5191	185.59	645800.5490	1915102.8596
CP09	45+41.28	47.59	644644.6332	1916121.9834	589.70	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP09	196474.1110	583993.6361	179.74	644598.8126	1915985.7877
CP10	82+10.59	-42.53	641724.1131	1918345.1520	591.04	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP10	195583.9980	584671.2110	180.15	641678.5001	1918208.7982
CP11	92+85.64	39.42	640804.9060	1918908.6293	598.90	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP11	195303.8430	584842.9471	182.55	640759.3583	1918772.2355
CP12	109+93.20	-37.34	639480.7627	1919989.8785	610.24	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP12	194900.2720	585172.4891	186.00	639435.3091	1919853.4078
CP13	124+96.25	42.35	638232.8517	1920831.4491	611.07	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP13	194519.9350	585428.9821	186.25	638187.4868	1920694.9186
CP14	138+37.19	-52.02	637219.1891	1921714.3480	613.70	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP14	194210.9920	585698.0710	187.06	637173.8963	1921577.7548
CP15	156+32.14	40.25	635730.6742	1922721.6650	614.42	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP15	193757.3240	586005.0801	187.28	635685.4872	1922585.0002
CP16	165+81.45	-45.95	635024.7331	1923362.1850	613.81	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP16	193542.1680	586200.2971	187.09	634979.5963	1923225.4746
CP17	182+25.17	40.09	633660.7051	1924283.3969	611.95	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP17	193126.4410	586481.0631	186.52	633615.6652	1924146.6211
CP18	197+45.63	-44.29	632498.5940	1925267.4708	607.04	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP18	192772.2540	586780.9881	185.03	632453.6367	1925130.6250
CP20	226+92.56	-42.06	630126.7701	1927024.4163	617.04	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP20	192049.3720	587316.4681	188.07	630081.9814	1926887.4456
CP21	238+55.33	51.54	629003.3821	1927343.7855	617.46	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CP21	191706.9870	587413.8051	188.20	628958.6733	1927206.7921
CP22	38+67.27	40.09	645195.1456	1915733.0293	594.17	RSPKS	SURVEY MARK SPIKE SET	CP22	196641.8956	583875.0910	181.10	645149.2859	1915596.8612
CPBASE19	213+74.01	75.32	631128.2401	1926155.1937	608.01	IPINS	5/8" IRON PIN SET CAPPED 'ODOT CONTROL'	CPBASE19	192354.5990	587051.5473	185.32	631083.3802	1926018.2848

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

UNITLESS FACTOR =	1.00007108	(Grid to Project Ground)	
	Degrees	Minutes	Seconds
MEAN PROJECT LATITUDE =	41	25	16
MEAN PROJECT ELEVATION (FT)=	611		

State Plane Grid Coordinates derived through a series of Static, Rapid Static, & VRS GPS observations. Points having prefix 'CP' are project control points. Point CP10 (Project Base Point) located by means of averaging multiple 4+ hour Static GPS sessions, solved through the National Geodetic Survey's Online Positioning User Service (OPUS). Subsiquent control points positioned by overlapping Rapid Static GPS observations with Static base sessions and through Trimble Geomatics Office (TGO) software radiating vectors from CP10. Grid values multiplied by the PAF to obtain ground values in feet.
Points with prefix 'MB" and 'MN' are centerline & reference monuments located. Points with prefix 'RE' are existing Right of Way from Plans ERI-250-0.00,0.45,1.14,8.763M

FEDERAL PROJECT NO. E-100530
PID NO. 88407
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CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

** ℄ SYCAMORE LINE RD*

SR 250 MONUMENTATION/ALIGNMENT							CENTERLINE RIGHT OF WAY & CONSTRUCTION POINTS	SR 250 MONUMENTATION/ALIGNMENT						MONUMENTS TO BE ADJUSTED DURING CONSTRUCTION
BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655								HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE VERTICAL DATUM - NAVD88 GPS DERIVED						ITEM 623E39500
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT											MONUMENT ASSEMBLY
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)	
ERI0250028	*0+00.00	0.00	649635.1528	1914442.7588	587.60	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250028	197995.1163	583481.8438	179.10	649588.9775	1914306.6824	
ERI0250029	*4+75.11	-0.04	649160.5222	1914464.0207	588.91	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250029	197850.4589	583488.3239	179.50	649114.3806	1914327.9428	
ERI0250030	*4+98.86	0.00	649136.7949	1914465.0408	589.57	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250030	197843.2273	583488.6348	179.70	649090.6550	1914328.9628	
ERI0250031	0+00.00	0.00	648695.5813	1914484.4920	592.85	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250031	197708.7547	583494.5632	180.70	648649.4728	1914348.4127	
ERI0250032	2+33.48	-0.10	648462.3342	1914494.9829	594.16	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250032	197637.6659	583497.7606	181.10	648416.2422	1914358.9028	
ERI0250033	10+00.19	0.01	647696.3774	1914528.9823	595.80	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250033	197404.2184	583508.1229	181.60	647650.3399	1914392.8998	
ERI0250034	18+19.68	0.00	646877.6998	1914565.4556	597.44	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250034	197154.7027	583519.2392	182.10	646831.7205	1914429.3705	
ERI0250001	26+00.49	-0.22	646245.1755	1915023.2539	598.10	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250001	196961.9226	583658.7664	182.30	646199.2411	1914887.1363	
ERI0250002	49+61.05	0.11	644332.3432	1916406.4755	588.25	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250002	196378.9316	584080.3433	179.30	644286.5448	1916270.2595	
ERI0250003	50+54.91	0.04	644256.3311	1916461.5406	587.93	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250003	196355.7647	584097.1260	179.20	644210.5381	1916325.3207	
ERI0250004	54+17.41	-0.03	643962.6569	1916674.0550	586.94	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250004	196266.2590	584161.8959	178.90	643916.8848	1916537.8200	
ERI0250005	59+94.38	0.00	643495.1496	1917012.1850	585.30	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250005	196123.7726	584264.9508	178.40	643449.4107	1916875.9260	
ERI0250006	68+21.94	0.06	642824.4841	1917497.0147	587.27	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250006	195919.3679	584412.7167	179.00	642778.7929	1917360.7212	
ERI0250007	75+22.00	-0.07	642257.2461	1917907.2927	585.96	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250007	195746.4857	584537.7608	178.60	642211.5952	1917770.9701	
ERI0250008	82+72.28	0.03	641649.1818	1918346.8103	591.53	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250008	195561.1605	584671.7165	180.30	641603.5741	1918210.4564	
ERI0250009	90+72.39	-0.01	641000.8175	1918815.6383	596.78	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250009	195363.5527	584814.6054	181.90	640955.2559	1918679.2511	
ERI0250010	98+28.34	0.59	640388.2122	1919258.5495	602.36	MONBOX	1" IRON PIN IN MONUMENT BOX AT P.I. OF CURVE	ERI0250010	195176.8435	584949.5954	183.60	640342.6941	1919122.1308	
ERI0250011	106+72.74	0.16	639714.0048	1919766.9497	607.94	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250011	194971.3593	585104.5450	185.30	639668.5347	1919630.4949	
ERI0250012	114+72.80	0.11	639075.3298	1920248.8114	610.56	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250012	194776.7046	585251.4063	186.10	639029.9051	1920112.3223	
ERI0250013	123+23.11	0.28	638396.4155	1920760.7625	610.89	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250013	194569.7858	585407.4383	186.20	638351.0390	1920624.2370	
ERI0250014	131+48.20	0.22	637737.7587	1921257.7122	611.22	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250014	194369.0411	585558.8981	186.30	637692.4290	1921121.1514	
ERI0250015	139+73.62	0.35	637078.7332	1921754.6924	613.84	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250015	194168.1840	585710.3672	187.10	637033.4504	1921618.0963	
ERI0250016	148+23.81	0.46	636399.9403	1922266.6270	614.14	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250016	193961.3022	585866.3941	187.19	636354.7057	1922129.9945	
ERI0250017	156+74.01	0.41	635721.2408	1922778.6837	614.07	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250017	193754.4489	586022.4582	187.17	635676.0545	1922642.0148	
ERI0250018	164+74.28	0.28	635082.4474	1923260.7291	613.52	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250018	193559.7581	586169.3754	187.00	635037.3065	1923124.0259	
ERI0250019	173+24.31	0.06	634403.9789	1923772.8242	606.95	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250019	193352.9752	586325.4513	185.00	634358.8862	1923636.0846	
ERI0250020	181+74.40	0.08	633725.3267	1924284.7674	611.22	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250020	193146.1363	586481.4808	186.30	633680.2822	1924147.9915	
ERI0250021	190+10.84	0.00	633057.6293	1924788.5558	610.24	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250021	192942.6362	586635.0249	186.00	633012.6323	1924651.7441	
ERI0250022	199+24.94	-0.08	632328.9592	1925340.4755	606.30	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250022	192720.5529	586803.2384	184.80	632284.0140	1925203.6245	
ERI0250023	214+50.07	-0.01	631113.0780	1926261.1703	606.95	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250023	192349.9779	587083.8468	185.00	631068.2192	1926124.2539	
ERI0250024	222+87.33	0.00	630445.6087	1926766.6258	611.22	MONBOX	1" IRON PIN IN MONUMENT BOX AT P.C. OF CURVE	ERI0250024	192146.5473	587237.8989	186.30	630400.7974	1926629.6735	1
ERI0250025	232+65.38	0.00	629581.1507	1927213.8785	615.48	MONBOX	1" IRON PIN IN MONUMENT BOX C/L CONSTRUCTION ERI-250-8.763M	ERI0250025	191883.0787	587374.2121	187.60	629536.4008	1927076.8944	1
ERI0250027	248+64.13	-0.08	628057.8043	1927699.0938	625.98	MONBOX	5/8" IRON PIN CAPPED 8073	ERI0250027	191418.7948	587522.0956	190.80	628013.1627	1927562.0752	
ERI0250026	273+17.55	0.00	625720.0427	1928443.4907	639.76	MONBOX	1" IRON PIN IN MONUMENT BOX	ERI0250026	190706.2943	587748.9721	195.00	625675.5672	1928306.4192	
OTHER ALIGNMENTS								OTHER ALIGNMENTS						
ERI0250031	0+00.00	0.00	648695.5813	1914484.4920	592.85	MONBOX	C/L INTERSECTION CLEVELAND AVENUE	ERI0250031	197708.7547	583494.5632	180.70	648649.4728	1914348.4127	
ERI0250034	18+19.68	0.00	646877.6998	1914565.4556	597.44	MONBOX	C/L INTERSECTION SYCAMORE LINE RD	ERI0250034	197154.7027	583519.2392	182.10	646831.7205	1914429.3705	
ERI0250005	59+94.38	0.00	643495.1496	1917012.1850	585.30	MONBOX	C/L DEFLECTION AT PERKINS AVENUE	ERI0250005	196123.7726	584264.9508	178.40	643449.4107	1916875.9260	
CALC01	97+12.09	0.00	640482.4181	1919190.4372	0.00	DEFAULT	P.C.	CALC01	195205.5555	584928.8362	0.00	640436.8933	1919054.0234	
CALC02	99+44.58	0.00	640295.4075	1919328.5590	0.00	DEFAULT	P.T.	CALC02	195148.5586	584970.9328	0.00	640249.8960	1919192.1353	
ERI0250021	190+10.84	0.00	633057.6293	1924788.5558	610.24	MONBOX	C/L DEFLECTION	ERI0250021	192942.6362	586635.0249	186.00	633012.6323	1924651.7441	
ERI0250024	222+87.33	0.00	630445.6087	1926766.6258	611.22	MONBOX	P.C.	ERI0250024	192146.5473	587237.8989	186.30	630400.7974	1926629.6735	
CALC03	232+60.92	0.00	629585.3961	1927212.5285	0.00	DEFAULT	P.T.	CALC03	191884.3726	587373.8007	0.00	629540.6459	1927075.5445	
ERI0250026	273+17.55	0.00	625720.0427	1928443.4907	639.76	MONBOX	C/L	ERI0250026	190706.2943	587748.9721	195.00	625675.5672	1928306.4192	
								TOTAL MONUMENTS - QUANTITY CARRIED TO GENERAL SUMMARY						2

FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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ERI-250-0.00

CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

*℄ SYCAMORE LINE RD

PROJECT GROUND COORDINATES - US SURVEY FEET							EXISTING BOUNDARY POINTS	STATE PLANE GRID COORDINATES - METERS						MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FT) ARE RELATIVE TO STATE PLANE GRID COORDINATES (M)								HORZ. DATUM - NAD83(1995), OHIO NORTH ZONE						ITEM 623E40520
BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655								VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)						
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT				DESCRIPTION	NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE								
SV724	*2+30.72	593.73	649378.1460	1913859.9240	591.58	MONBOX	IRON PIPE CENTER LINE 6TH & SCOTT	SV724	197916.7861	583304.2080	180.31	649331.9890	1913723.8890	
SV713	*4+75.17	-0.02	649160.4560	1914464.0020	589.25	MONBOX	IRON PIN FOUND IN MONUMENT BOX SYCAMORE	SV713	197850.4387	583488.3182	179.60	649114.3144	1914327.9241	
SV714	*4+98.86	0.00	649136.7810	1914464.9980	589.77	MONBOX	IRON PIN FOUND IN MONUMENT BOX SYCAMORE & FINCH	SV714	197843.2231	583488.6218	179.76	649090.6411	1914328.9200	
SV721	*6+22.70	407.61	648995.1190	1914063.2800	593.97	IPIPE	IRON PIPE RW NE CORNER OF 6TH & FINCH	SV721	197800.0475	583366.1866	181.04	648948.9892	1913927.2306	
SV90214	*6+45.64	30.46	648988.8180	1914441.0750	591.83	IPIPE		SV90214	197798.1271	583481.3306	180.39	648942.6886	1914304.9987	
SV720	*6+46.35	468.67	648968.8070	1914003.3200	594.98	IPIPE	IRON PIPE RW NW CORNER OF 6TH & FINCH	SV720	197792.0282	583347.9121	181.35	648922.6790	1913867.2749	
SV723	*6+64.82	432.24	648951.9610	1914040.5280	594.77	MONBOX	IRON PIN CENTERLINE 6TH & FINCH	SV723	197786.8939	583359.2523	181.29	648905.8342	1913904.4802	
SV90213	*6+88.92	30.21	648945.5880	1914443.2350	592.15	IPIPE		SV90213	197784.9515	583481.9889	180.49	648899.4617	1914307.1586	
SV722	*7+07.943	443.92	648908.3840	1914030.7580	595.00	IPIPE	IRON PIPE RW SW CORNER OF 6TH & FINCH	SV722	197773.6125	583356.2746	181.36	648862.2603	1913894.7109	
SV90212	*7+61.16	214.29	648865.3080	1914262.5080	593.08	IPIN		SV90212	197760.4838	583426.9071	180.77	648819.1874	1914126.4444	
SV90215	*7+91.97	166.57	648836.6320	1914311.5400	593.36	IPIN		SV90215	197751.7440	583441.8510	180.86	648790.5134	1914175.4729	
SV90147	*8+30.55	397.37	648787.9230	1914082.6650	595.06	IPIPE		SV90147	197736.8985	583372.0948	181.37	648741.8079	1913946.6142	
SV90165	*9+21.43	149.00	648708.0680	1914334.7990	593.34	IPIPE		SV90165	197712.5604	583448.9399	180.85	648661.9586	1914198.7303	
SV715	*9+40.50	0.07	648695.5840	1914484.4190	593.13	MONBOX	IRON PIN FOUND IN MONUMENT BOX SYCAMORE & U.S. RT. 6	SV715	197708.7555	583494.5409	180.79	648649.4755	1914348.3397	
SV90164	0+17.00	241.72	648667.8460	1914243.7660	594.01	IPIPE		SV90164	197700.3016	583421.1949	181.05	648621.7394	1914107.7038	
SV90154	0+28.32	379.42	648650.4040	1914106.7130	595.18	IPIPE		SV90154	197694.9856	583379.4241	181.41	648604.2987	1913970.6605	
SV90171	0+29.39	272.28	648654.1100	1914213.7930	594.32	IPIPE		SV90171	197696.1151	583412.0598	181.15	648608.0044	1914077.7329	
SV90155	0+40.72	410.19	648636.6530	1914076.5240	595.40	IPIPE		SV90155	197690.7946	583370.2231	181.48	648590.5487	1913940.4736	
SV716	0+60.34	-120.73	648640.6750	1914607.7860	594.30	CUT		SV716	197692.0204	583532.1406	181.14	648594.5704	1914471.6979	
SV90162	1+01.55	458.06	648573.7470	1914031.4030	596.03	IPIN		SV90162	197671.6222	583356.4712	181.67	648527.6471	1913895.3559	
SV90157	1+24.99	628.51	648542.7550	1913862.1610	596.90	IPIPE		SV90157	197662.1765	583304.8898	181.94	648496.6573	1913726.1259	
SV90160	1+62.41	613.95	648506.0140	1913878.3810	596.51	IPIPE		SV90160	197650.9786	583309.8333	181.82	648459.9189	1913742.3447	
SV717	2+32.23	-322.83	648477.9480	1914817.3360	593.65	RSPK		SV717	197642.4247	583596.0070	180.94	648431.8549	1914681.2330	
SV711	2+33.47	-0.09	648462.3490	1914494.9670	594.43	MONBOX	BENT IRON PIN FOUND IN MONUMENT BOX MCKELVEY & SYCAMORE	SV711	197637.6704	583497.7557	181.18	648416.2570	1914358.8869	
SV718	3+01.77	-405.07	648412.1320	1914902.5860	593.37	IPIN	RW PL NORTH	SV718	197622.3653	583621.9894	180.86	648366.0436	1914766.4769	
SV719	3+73.72	-525.36	648345.6090	1915025.9610	593.09	IPIN	RW OGONTZ & CLEVELAND	SV719	197602.0905	583659.5915	180.77	648299.5253	1914889.8432	
SV710	5+58.17	828.92	648101.0790	1913681.2240	595.77	MONBOX		SV710	197527.5629	583249.7440	181.59	648055.0127	1913545.2017	
SV712	10+00.23	-0.09	647696.3450	1914529.0880	595.80	MONBOX	IRON PIN FOUND IN MONUMENT BOX SYCAMORE	SV712	197404.2085	583508.1551	181.60	647650.3075	1914393.0055	
SV90138	17+14.98	107.84	646977.4970	1914453.0660	597.46	IPIPE		SV90138	197185.1188	583484.9852	182.11	646931.5106	1914316.9889	
SV90137	17+72.79	69.93	646921.4390	1914493.5070	597.80	IPIPE		SV90137	197168.0335	583497.3107	182.21	646875.4566	1914357.4270	
SV90136	18+19.68	34.15	646869.2070	1914532.3820	597.77	IPIPE		SV90136	197152.1143	583509.1590	182.20	646823.2283	1914396.2992	
SV90135	18+72.45	67.79	646795.2140	1914541.4610	598.30	IPIPE		SV90135	197129.5628	583511.9261	182.36	646749.2405	1914405.3776	
SV90140	19+86.77	-41.96	646766.9160	1914697.3820	598.39	IPIN		SV90140	197120.9381	583559.4476	182.39	646720.9446	1914561.2875	
SV90141	20+11.69	-41.52	646746.4580	1914711.6260	598.50	IPIN		SV90141	197114.7030	583563.7888	182.42	646700.4880	1914575.5305	
SV90134	20+17.31	336.99	646520.0660	1914408.2390	598.17	IPIPE		SV90134	197045.7035	583471.3229	182.32	646474.1121	1914272.1651	
SV90133	20+20.57	324.41	646524.7970	1914420.3410	598.54	IPIPE		SV90133	197047.1454	583475.0113	182.44	646478.8428	1914284.2662	
SV90132	20+22.70	326.74	646521.7080	1914419.7030	598.51	IPIPE		SV90132	197046.2039	583474.8168	182.43	646475.7540	1914283.6283	
SV90131	20+49.60	186.66	646582.0100	1914548.9680	598.74	IPIPE		SV90131	197064.5827	583514.2141	182.50	646536.0517	1914412.8841	
SV90130	21+61.31	260.44	646448.2530	1914554.6540	598.58	IPIPE		SV90130	197023.8164	583515.9471	182.45	646402.3042	1914418.5697	
SV90128	22+02.08	40.51	646544.1200	1914756.7520	598.89	IPIN		SV90128	197053.0346	583577.5423	182.54	646498.1644	1914620.6533	
SV90129	22+02.47	215.14	646441.4590	1914615.4830	598.12	IPIN		SV90129	197021.7457	583534.4865	182.31	646395.5107	1914479.3943	
MN06	49+60.99	0.07	644332.4130	1916406.4680	587.87	MONBOX		MN06	196378.9529	584080.3410	179.18	644286.6146	1916270.2520	
MN05	50+54.87	0.05	644256.3650	1916461.5110	587.92	MONBOX		MN05	196355.7751	584097.1169	179.20	644210.5720	1916325.2911	
MN12	54+27.94	744.57	643517.7280	1916076.9180	593.46	MONBOX		MN12	196130.6541	583979.9011	180.89	643471.9875	1915940.7255	
SV90101	69+12.88	-41.26	642774.9940	1917583.7780	588.90	IPID		SV90101	195904.2844	584439.1603	179.50	642729.3063	1917447.4784	1
SV90104	69+12.99	-281.28	642915.5470	1917778.3510	584.80	MAG		SV90104	195947.1220	584498.4620	178.25	642869.8493	1917642.0375	
SV90103	70+47.91	-281.25	642806.1880	1917857.3820	584.45	MAG		SV90103	195913.7916	584522.5490	178.14	642760.4981	1917721.0629	
SV90102	70+62.69	-41.27	642653.6020	1917671.5670	587.59	IPIN		SV90102	195867.2866	584465.9165	179.10	642607.9229	1917535.2611	1
PP12804	74+49.55	-50.25	642345.3630	1917905.5090	585.98	IPIN		PP12804	195773.3419	584537.2171	178.61	642299.7058	1917769.1865	
PP12812	74+99.50	-207.05	642396.7610	1918061.8410	590.01	IPIPE		PP12812	195789.0069	584584.8638	179.84	642351.1002	1917925.5074	
PP12806	77+30.41	-44.83	642114.5880	1918065.6760	588.07	IPIPE		PP12806	195703.0065	584586.0326	179.24	642068.9472	1917929.3421	1

FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET							EXISTING BOUNDARY POINTS	STATE PLANE GRID COORDINATES - METERS						MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FT) ARE RELATIVE TO STATE PLANE GRID COORDINATES (M)								HORZ. DATUM - NAD83(1995), OHIO NORTH ZONE						ITEM 623E40520
BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655								VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)						
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT				DESCRIPTION	NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE								
PP12902	77+30.45	-44.82	642114.5470	1918065.6880	588.00	IPIPE		PP12902	195702.9940	584586.0363	179.22	642068.9062	1917929.3541	
PP14102	80+90.01	-49.57	641825.9520	1918280.2140	590.54	IPIN		PP14102	195615.0363	584651.4193	180.00	641780.3318	1918143.8649	1
PP14106	81+50.21	-201.63	641866.2620	1918438.7040	590.61	IPIPE		PP14106	195627.3220	584699.7237	180.02	641820.6389	1918302.3436	
PP14104	81+53.03	-44.27	641771.7800	1918312.8340	590.41	IPIPE		PP14104	195598.5259	584661.3612	179.96	641726.1636	1918176.4825	
PP14304	82+10.03	-201.23	641817.5520	1918473.4300	591.51	IPID		PP14304	195612.4762	584710.3075	180.29	641771.9323	1918337.0671	
PP14504	82+74.34	-41.00	641671.5520	1918381.2640	591.55	IPIPE		PP14504	195567.9785	584682.2172	180.30	641625.9427	1918244.9077	1
PP14704	83+38.44	-342.58	641796.3120	1918663.2130	590.73	IPIN		PP14704	195606.0027	584768.1493	180.05	641750.6939	1918526.8366	
H1476	84+30.27	180.07	641415.6640	1918293.4820	590.85	IPIPE	PINCHED PIPE	H1476	195489.9892	584655.4631	180.09	641370.0729	1918157.1319	
PP14706	84+38.34	-341.19	641714.5450	1918720.6220	593.35	IPIN		PP14706	195581.0818	584785.6464	180.85	641668.9327	1918584.2416	
H1445	85+11.87	180.03	641349.5650	1918341.3240	592.78	IPIPE	1" PIPE	H1445	195469.8436	584670.0444	180.68	641303.9786	1918204.9705	
PP15202	85+62.17	44.95	641387.9450	1918480.2560	591.01	IPIN		PP15202	195481.5410	584712.3879	180.14	641342.3559	1918343.8926	
PP15304	85+67.32	-344.77	641612.1220	1918799.0950	596.00	IPIN		PP15304	195549.8655	584809.5633	181.66	641566.5170	1918662.7090	
H1420	86+66.00	-44.89	641356.4390	1918613.8980	594.13	IPIN	1/2" PIN	H1420	195471.9387	584753.1192	181.09	641310.8521	1918477.5251	
H1419	87+14.28	-45.02	641317.4000	1918642.2900	594.56	IPIN	5/8" PIN	H1419	195460.0404	584761.7725	181.22	641271.8159	1918505.9151	1
H1417	87+14.85	-194.82	641404.7080	1918764.0190	592.53	IPIN	1/2" PIN	H1417	195486.6500	584798.8729	180.60	641359.1177	1918627.6355	
PP15502	87+87.06	44.97	641205.6890	1918612.0060	592.49	CMON		PP15502	195425.9932	584752.5425	180.59	641160.1128	1918475.6333	
H1440	88+12.06	344.88	641009.7110	1918383.6210	595.42	MAG		H1440	195366.2633	584682.9356	181.48	640964.1488	1918247.2645	
H1414	88+17.43	-44.83	641233.6930	1918702.5720	595.38	IPIN	1/2" PIN	H1414	195434.5283	584780.1451	181.47	641188.1148	1918566.1928	1
SV90111	89+28.63	44.98	641090.9590	1918694.9430	595.74	IPIN		SV90111	195391.0260	584777.8200	181.58	641045.3910	1918558.5644	1
SV90105	90+01.78	295.30	640885.0130	1918534.9570	597.04	IPIN		SV90105	195328.2580	584729.0596	181.98	640839.4596	1918398.5897	1
SV90114	90+58.23	44.57	640986.1740	1918771.2120	597.83	IPIN		SV90114	195359.0897	584801.0652	182.22	640940.6134	1918634.8280	
SV90106	90+59.10	294.77	640838.8720	1918568.9680	597.45	IPIPE		SV90106	195314.1951	584739.4255	182.10	640793.3219	1918432.5983	
SV90113	91+11.41	44.82	640942.9330	1918802.1720	597.34	PK		SV90113	195345.9107	584810.5011	182.07	640897.3755	1918665.7858	1
SV90107	91+12.07	294.58	640796.0590	1918600.1630	597.93	PK		SV90107	195301.1466	584748.9330	182.25	640750.5120	1918463.7911	
SV90112	91+41.59	44.90	640918.4310	1918819.7830	597.44	IPIPE		SV90112	195338.4431	584815.8686	182.10	640872.8753	1918683.3955	1
SV90108	91+41.95	294.94	640771.6340	1918617.3740	597.72	IPID		SV90108	195293.7024	584754.1786	182.19	640726.0887	1918481.0009	
SV90127	92+44.75	-3010.22	642624.8680	1921356.0210	586.35	IPIN		SV90127	195858.5291	585588.8605	178.72	642579.1910	1921219.4532	
SV90119	92+73.05	-523.02	641144.6500	1919357.0410	596.50	IPIN		SV90119	195407.3898	584979.6135	181.81	641099.0782	1919220.6153	
SV90109	92+98.03	294.59	640645.3570	1918709.1080	598.58	IPID		SV90109	195255.2158	584782.1372	182.45	640599.8207	1918572.7284	
SV90216	93+24.18	-0.21	640796.8900	1918963.3250	599.10	RSPK		SV90216	195301.3999	584859.6172	182.61	640751.3429	1918826.9273	
SV90009	93+26.50	0.00	640794.8900	1918964.5200	600.00	MAG		SV90009	195300.7904	584859.9814	182.88	640749.3430	1918828.1222	
H1099	93+49.25	836.97	640286.0620	1918299.5900	600.09	IPIN	1/2" PIN BENT	H1099	195145.7103	584657.3247	182.91	640240.5512	1918163.2395	
H1100	93+49.31	871.30	640265.8960	1918271.7990	600.17	IPIN	1" PIN	H1100	195139.5641	584648.8546	182.93	640220.3866	1918135.4505	
H1418	94+79.15	45.07	640644.7730	1919017.4300	600.19	IPIN	5/8" PIN	H1418	195255.0379	584876.1072	182.94	640599.2367	1918881.0285	
H1427	95+67.91	45.07	640572.8460	1919069.4370	600.84	IPIN	5/8" PIN	H1427	195233.1160	584891.9579	183.14	640527.3148	1918933.0318	
H1472	96+15.37	-327.81	640752.8680	1919399.4180	598.36	MONBOX	RUM & FORCE	H1472	195287.9829	584992.5291	182.38	640707.3240	1919262.9893	
H1473	96+21.44	-45.06	640582.2860	1919173.8400	600.63	MONBOX	FORCE & 250 R/W	H1473	195235.9931	584923.7777	183.07	640536.7542	1919037.4273	
H1408	96+46.78	-262.91	640689.3830	1919365.2290	599.41	IPID	IRON PIN & CAP "HANCOCK"	H1408	195268.6340	584982.1090	182.70	640643.8435	1919228.8027	
SV90124	96+49.56	-3262.52	642444.6430	1921797.6650	586.00	MONBOX		SV90124	195803.6003	585723.4643	178.61	642398.9788	1921661.0658	
H1407	96+81.64	-299.20	640682.3960	1919415.0620	599.76	IPID	"HANCOCK" IRON PIN & CAP	H1407	195266.5046	584997.2971	182.81	640636.8570	1919278.6322	
PP17204	96+87.51	172.06	640401.5220	1919036.5990	601.11	IPID		PP17204	195180.9001	584881.9495	183.22	640356.0030	1918900.1961	
PP17202	96+87.53	44.86	640476.0310	1919139.6920	601.57	IPIN		PP17202	195203.6089	584913.3701	183.36	640430.5067	1919003.2818	
PP17402	97+34.41	44.92	640437.9530	1919167.1780	602.19	IPIN		PP17402	195192.0035	584921.7473	183.55	640392.4314	1919030.7658	
PP17404	98+21.25	45.48	640367.2720	1919218.2150	602.80	IPID		PP17404	195170.4614	584937.3023	183.73	640321.7554	1919081.7992	
SV90118	98+34.19	177.69	640278.2150	1919119.6230	604.60	IPIN		SV90118	195143.3187	584907.2535	184.28	640232.7048	1918983.2142	
SV90117	98+73.25	218.23	640222.1490	1919110.7400	603.57	IPIPE		SV90117	195126.2310	584904.5461	183.97	640176.6427	1918974.3318	
H1405	100+01.32	-292.98	640426.5560	1919596.6190	601.56	IPID	IRON PIN & CAP "HANCOCK"	H1405	195188.5299	585052.6318	183.36	640381.0352	1919460.1763	
H1406	100+33.51	-257.61	640379.5580	1919587.7720	601.67	IPID	IRON PIN & CAP "HANCOCK"	H1406	195174.2059	585049.9355	183.39	640334.0406	1919451.3299	
SV90116	100+55.84	204.19	640083.6190	1919232.5470	605.63	POST		SV90116	195084.0099	584941.6704	184.60	640038.1226	1919096.1302	
H1474	100+78.42	-44.98	640215.6470	1919445.0690	603.29	MONBOX	DEWITT & 250 R/W	H1474	195124.2493	585006.4426	183.88	640170.1412	1919308.6371	
H1471	100+78.47	-326.03	640384.8680	1919669.4650	600.93	MONBOX	RUM & DEWITT	H1471	195175.8243	585074.8338	183.16	640339.3502	1919533.0171	

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET							*EXISTING BOUNDARY POINTS*	*STATE PLANE GRID COORDINATES - METERS*						*MONUMENTS TO BE RESET AFTER CONSTRUCTION*
PROJECT COORDINATES (FT) ARE RELATIVE TO STATE PLANE GRID COORDINATES (M)								*HORZ. DATUM - NAD83(1995), OHIO NORTH ZONE*						*ITEM 623E40520*
BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655								*VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)*						
NAME	*CENTERLINE R/W SR 250*		*PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT*				*DESCRIPTION*	*NAME*	*NORTH(m)*	*EAST(m)*	*ORTHO HT(m)*	*NORTH (US FT)*	*EAST (US FT)*	*RIGHT OF WAY PIN (TYPE "B")*
	STATION	*OFFSET(ft)*	*NORTH(ft)*	*EAST(ft)*	*ELEVATION(ft)*	*FEATURE*								
H1470	104+50.52	-325.96	640087.8100	1919893.4670	602.04	MONBOX	RUM & LAKECREST	H1470	195085.2873	585143.1049	183.50	640042.3133	1919757.0032	
H1336	119+43.73	-326.15	638895.8680	1920792.8850	604.20	MAG		H1336	194722.0084	585417.2285	184.16	638850.4560	1920656.3573	
H1337	119+44.00	-290.14	638873.9610	1920764.3000	604.89	MAG		H1337	194715.3316	585408.5164	184.37	638828.5506	1920627.7743	
H1340	119+45.42	-45.10	638725.2610	1920569.5320	609.41	IPIN	1/2" PIN	H1340	194670.0110	585349.1552	185.75	638679.8611	1920433.0201	
H1335	120+04.03	-289.93	638825.9130	1920800.2870	605.30	IPIN	5/8" PIN	H1335	194700.6876	585419.4845	184.50	638780.5060	1920663.7587	
H1339	120+05.39	-44.94	638677.2880	1920605.5230	609.72	MAG		H1339	194655.3899	585360.1245	185.84	638631.8916	1920469.0086	
H1338	121+55.42	-44.70	638557.3740	1920695.6800	610.68	IPIN	5/8" PIN	H1338	194618.8426	585387.6025	186.14	638511.9861	1920559.1592	
H1333	122+75.52	-289.33	638608.8150	1920963.3080	606.43	IPIPE	1" PIPE BENT	H1333	194634.5207	585469.1699	184.84	638563.4234	1920826.7681	
H1332	123+62.62	-289.45	638539.3500	1921015.8520	606.70	IPIPE	1 1/4" PIPE	H1332	194613.3493	585485.1842	184.92	638493.9634	1920879.3084	
PP18116	124+60.28	352.81	638074.6010	1920561.9370	611.89	IPID		PP18116	194471.7035	585346.8404	186.50	638029.2474	1920425.4257	
PP18110	124+60.38	90.03	638232.7750	1920771.7810	611.13	MAG		PP18110	194519.9117	585410.7965	186.27	638187.4102	1920635.2548	
H1329	124+60.42	-289.88	638461.5370	1921075.1020	607.62	IPIPE	1" PIPE	H1329	194589.6335	585503.2423	185.20	638416.1559	1920938.5542	
H1302	126+73.91	-289.73	638291.0130	1921203.5480	607.39	IPIPE	1" PIPE	H1302	194537.6614	585542.3900	185.13	638245.6440	1921066.9911	
H1301	126+75.91	-47.18	638143.3450	1921011.1240	610.76	IPIPE	1" PIPE	H1301	194492.6553	585483.7432	186.16	638097.9865	1920874.5807	
H1305	127+68.04	-384.59	638272.9920	1921335.9630	605.13	MAG		H1305	194532.1689	585582.7473	184.44	638227.6243	1921199.3967	
H1307	130+11.63	-44.75	637873.8730	1921211.3620	610.91	IPID	IRON PIN & CAP "PDG" BENT	H1307	194410.5259	585544.7715	186.21	637828.5337	1921074.8045	1
PP18104	130+65.23	90.03	637749.9160	1921136.0450	611.30	IPIN		PP18104	194372.7464	585521.8165	186.32	637704.5855	1920999.4929	
PP18106	130+65.52	332.59	637603.6040	1920942.5740	613.87	IPIN		PP18106	194328.1536	585462.8506	187.11	637558.2839	1920806.0356	
H1309	132+60.03	-363.61	637867.5980	1921615.5040	606.34	IPID	IRON PIN & CAP "PDG"	H1309	194408.6134	585667.9455	184.81	637822.2591	1921478.9178	
H1308	132+61.50	-44.66	637674.3430	1921361.7670	610.79	MAG		H1308	194349.7133	585590.6118	186.17	637629.0178	1921225.1988	
H1313	134+08.75	-45.14	637557.0800	1921450.8280	612.02	IPIN	5/8" PIN	H1313	194313.9740	585617.7557	186.54	637511.7632	1921314.2535	1
PP19202	135+53.77	-44.95	637441.1850	1921538.0140	613.37	IPIN		PP19202	194278.6517	585644.3282	186.96	637395.8764	1921401.4333	1
PP19102	136+04.21	45.25	637346.6050	1921496.3850	613.36	IPIPE		PP19102	194249.8257	585631.6405	186.95	637301.3031	1921359.8073	1
PP19206	137+27.21	-327.47	637472.8740	1921868.0100	609.44	IPID		PP19206	194288.3098	585744.9040	185.76	637427.5632	1921731.4058	
PP19108	138+24.60	420.12	636944.9030	1921329.8440	613.98	IPIPE		PP19108	194127.3954	585580.8823	187.14	636899.6297	1921193.2781	
PP19104	138+91.71	60.01	637108.1920	1921657.7440	613.45	IPIPE		PP19104	194177.1624	585680.8193	186.98	637062.9071	1921521.1548	
SV15810	139+64.43	-95.31	637143.6770	1921825.5290	612.59	IPIN		SV15810	194187.9775	585731.9567	186.72	637098.3896	1921688.9279	
SV15822	141+06.40	-225.88	637108.9700	1922015.2670	611.04	IPIPE		SV15822	194177.3996	585789.7848	186.25	637063.6850	1921878.6524	
SV15821	142+31.39	-326.03	637069.5100	1922170.4940	611.37	IPIPE		SV15821	194165.3730	585837.0947	186.35	637024.2278	1922033.8683	
SV15815	143+55.85	-45.32	636801.0960	1922021.3480	614.64	IPIN		SV15815	194083.5660	585791.6382	187.34	636755.8329	1921884.7329	
SV15820	143+55.95	-419.41	637026.3030	1922320.0530	609.94	IPID		SV15820	194152.2044	585882.6772	185.91	636981.0239	1922183.4167	
SV15816	144+74.18	-45.77	636706.8990	1922092.9710	614.50	IPIN		SV15816	194054.8568	585813.4674	187.30	636661.6426	1921956.3509	
SV15818	145+30.70	-549.26	636964.9990	1922528.9590	608.42	IPIN		SV15818	194133.5202	585946.3473	185.45	636919.7243	1922392.3079	
SV15817	145+31.16	-44.68	636660.7550	1922126.4130	614.03	IPIN		SV15817	194040.7931	585823.6598	187.16	636615.5019	1921989.7905	
H1321	148+50.29	-831.68	636879.9510	1922946.8850	606.62	RSPK		H1321	194107.5994	586073.7224	184.90	636834.6823	1922810.2042	
H1320	149+20.13	-883.57	636855.4390	1923030.3700	606.09	RSPK		H1320	194100.1286	586099.1668	184.74	636810.1721	1922893.6832	
P3	153+89.17	-1231.52	636690.5450	1923590.6110	603.42	MONBOX		P3	194049.8724	586269.9165	183.92	636645.2898	1923453.8844	
SV15825	153+89.41	-1186.47	636663.2210	1923554.7970	603.17	IPIN		SV15825	194041.5446	586259.0012	183.85	636617.9677	1923418.0729	
PP20604	153+94.88	-44.55	635971.1550	1922646.4690	612.97	IPIN		PP20604	193830.6175	585982.1619	186.83	635925.9509	1922509.8095	
PP20702	155+12.76	-44.62	635877.0910	1922717.5170	613.42	IPIN		PP20702	193801.9488	586003.8158	186.97	635831.8936	1922580.8525	
SV15827	155+29.69	-522.34	636151.2730	1923109.0930	609.61	IPIN		SV15827	193885.5137	586123.1600	185.81	636106.0561	1922972.4006	
PP20704	155+31.96	-63.97	635873.4110	1922744.5340	613.06	IPID		PP20704	193800.8272	586012.0500	186.86	635828.2139	1922607.8675	
SV15832	160+13.52	-60.66	635486.9860	1923031.8970	612.51	IPID		SV15832	193683.0530	586099.6322	186.69	635441.8163	1922895.2101	
SV15831	160+13.55	-325.75	635646.6080	1923243.5430	610.50	IPIN		SV15831	193731.7024	586164.1375	186.08	635601.4270	1923106.8411	
SV15830	160+23.61	-335.71	635644.5680	1923257.5530	610.32	IPID		SV15830	193731.0807	586168.4074	186.03	635599.3871	1923120.8501	
SV15833	160+32.65	-44.65	635462.0650	1923030.6370	612.58	IPID		SV15833	193675.4576	586099.2482	186.71	635416.8971	1922893.9502	
SV15829	162+71.77	-335.52	635446.3440	1923406.8500	610.42	IPID		SV15829	193670.6662	586213.9100	186.06	635401.1772	1923270.1365	
SV15834	165+64.21	-101.78	635072.1180	1923396.3750	611.92	MAG		SV15834	193556.6099	586210.7175	186.51	635026.9778	1923259.6622	
SV15837	166+18.23	-101.81	635029.0110	1923428.9220	612.81	IPID		SV15837	193543.4718	586220.6371	186.78	634983.8739	1923292.2069	
SV15836	166+18.53	-136.76	635049.8160	1923457.0050	612.53	IPID		SV15836	193549.8128	586229.1962	186.70	635004.6774	1923320.2879	
SV15838	168+29.33	-444.86	635067.0800	1923829.9220	609.64	IPID		SV15838	193555.0745	586342.8535	185.82	635021.9402	1923693.1784	

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET PROJECT COORDINATES (FT) ARE RELATIVE TO STATE PLANE GRID COORDINATES (M) BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655							EXISTING BOUNDARY POINTS	STATE PLANE GRID COORDINATES - METERS HORZ. DATUM - NAD83(1995), OHIO NORTH ZONE VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)						MONUMENTS TO BE RESET AFTER CONSTRUCTION ITEM 623E40520
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT				DESCRIPTION	NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE								
H1327	168+29.51	-44.67	634825.9340	1923510.5520	613.14	IPIN	1/2" PIN	H1327	193481.5782	586245.5162	186.89	634780.8113	1923373.8311	
H1326	168+29.60	-208.09	634924.2730	1923641.0620	610.63	IPIN	1/2" PIN	H1326	193511.5499	586285.2929	186.12	634879.1433	1923504.3318	
PP21504	171+37.76	279.60	634384.5580	1923437.3160	610.60	IPIN		PP21504	193347.0561	586223.1954	186.11	634339.4667	1923300.6003	
SV15845	173+91.15	-746.23	634800.0690	1924408.8560	604.90	RSPK		SV15845	193473.6951	586519.3004	184.37	634754.9481	1924272.0712	
H1233	174+28.13	-663.22	634720.5480	1924364.8630	605.98	RSPK		H1233	193449.4588	586505.8922	184.70	634675.4328	1924228.0814	
SV15843	174+28.19	-663.24	634720.5090	1924364.9120	605.88	RSPK		SV15843	193449.4469	586505.9071	184.67	634675.3938	1924228.1304	
SV15844	174+63.61	-698.13	634713.2490	1924414.0940	605.99	RSPK		SV15844	193447.2342	586520.8968	184.71	634668.1343	1924277.3089	
H1236	174+63.65	-698.07	634713.1830	1924414.0740	606.12	RSPK		H1236	193447.2141	586520.8907	184.75	634668.0683	1924277.2889	
H21	175+05.61	-35.57	634280.7030	1923910.4590	609.59	MAG		H21	193315.4033	586367.3994	185.80	634235.6191	1923773.7097	
SV15846	175+52.21	-745.10	634670.8070	1924504.9450	606.58	IPIN		SV15846	193434.2988	586548.5863	184.89	634625.6953	1924368.1534	
H1232	176+65.31	-697.99	634552.1400	1924535.4520	607.06	DRILLH	DRILL HOLE IN CONCRETE	H1232	193398.1316	586557.8841	185.03	634507.0368	1924398.6582	
H1235	177+61.97	-44.86	634081.6400	1924072.2570	612.12	RSPK		H1235	193254.7331	586416.7121	186.57	634036.5702	1923935.4962	
H1227	177+85.76	-344.94	634243.3650	1924326.1440	605.76	IPID	IRON PIN & CAP "SHAMP"	H1227	193304.0235	586494.0915	184.64	634198.2837	1924189.3651	
H1226	177+85.91	-45.00	634062.6160	1924086.7920	612.14	RSPK		H1226	193248.9350	586421.1420	186.58	634017.5476	1923950.0301	
P34	181+51.68	188.80	633629.8120	1924120.4250	612.55	MONBOX		P34	193117.0254	586431.3927	186.71	633584.7743	1923983.6607	
P35	181+51.77	44.78	633716.4780	1924235.4470	610.43	MONBOX		P35	193143.4394	586466.4489	186.06	633671.4342	1924098.6746	
PP22708	181+81.04	-344.93	633927.8040	1924564.1900	606.33	IPID		PP22708	193207.8471	586566.6429	184.81	633882.7451	1924427.3942	
P33	182+29.63	320.67	633488.1710	1924062.0910	612.60	MONBOX		P33	193073.8563	586413.6137	186.72	633443.1434	1923925.3309	
PP22704	183+92.24	-44.99	633578.5630	1924451.9330	611.51	IPID		PP22704	193101.4058	586532.4293	186.39	633533.5290	1924315.1452	
PP23202	184+21.94	199.73	633407.4740	1924274.4520	612.38	IPIN		PP23202	193049.2615	586478.3368	186.65	633362.4521	1924137.6768	
PP23102	184+92.32	-45.03	633498.6910	1924512.2320	611.13	IPID		PP23102	193077.0625	586550.8072	186.27	633453.6626	1924375.4399	
P32	185+73.89	509.11	633099.8480	1924118.9770	614.25	MONBOX		P32	192955.5036	586430.9513	187.22	633054.8480	1923982.2128	
PP23204	186+22.08	199.20	633248.0170	1924395.4090	611.38	IPIPE		PP23204	193000.6624	586515.2020	186.35	633203.0065	1924258.6252	
P30	186+28.69	560.82	633024.9590	1924110.7010	613.70	MONBOX		P30	192932.6790	586428.4290	187.06	632979.9643	1923973.9374	
H1462	186+50.77	2482.62	631849.9650	1922589.7870	619.11	MONBOX		H1462	192574.5656	585964.8864	188.71	631805.0538	1922453.1315	
H1460	186+51.08	1727.94	632304.2140	1923192.4470	614.50	MONBOX		H1460	192713.0111	586148.5645	187.30	632259.2705	1923055.7487	
H1461	186+51.14	1737.75	632298.2530	1923184.6560	614.63	MONBOX		H1461	192711.1943	586146.1900	187.34	632253.3100	1923047.9583	
H1463	186+51.72	640.80	632958.4110	1924060.7180	614.01	MONBOX		H1463	192912.3966	586413.1952	187.15	632913.4210	1923923.9580	
P31	186+51.94	640.84	632958.2090	1924060.8220	613.95	MONBOX		P31	192912.3350	586413.2269	187.13	632913.2191	1923924.0620	
PP23106	186+91.95	-45.58	633339.6550	1924632.8950	610.94	IPID		PP23106	193028.5917	586587.5827	186.21	633294.6379	1924496.0943	
PP23112	186+92.26	-344.97	633519.7090	1924872.0960	605.56	IPIPE		PP23112	193083.4684	586660.4862	184.58	633474.6792	1924735.2783	
PP23612	187+42.21	-370.15	633494.9950	1924922.2780	605.87	IPIN		PP23612	193075.9361	586675.7806	184.67	633449.9669	1924785.4567	
P29	187+43.38	522.43	632956.5230	1924210.4200	611.48	MONBOX		P29	192911.8211	586458.8212	186.38	632911.5332	1924073.6493	
P28	187+88.12	522.20	632920.9440	1924237.5400	611.23	MONBOX		P28	192900.9774	586467.0868	186.30	632875.9567	1924100.7674	
PP23610	188+87.85	-585.97	633508.7000	1925182.2830	604.03	IPID		PP23610	193080.1131	586755.0246	184.11	633463.6709	1925045.4433	
P27	188+88.18	422.46	632901.1280	1924377.4270	610.29	MONBOX		P27	192894.9379	586509.7215	186.02	632856.1421	1924240.6445	
P26	188+88.41	45.01	633128.2620	1924678.8960	608.90	MONBOX		P26	192964.1636	586601.6029	185.59	633083.2600	1924542.0920	
PP23602	189+83.18	-45.04	633106.8300	1924807.8530	610.44	IPIN		PP23602	192957.6315	586640.9062	186.06	633061.8295	1924671.0399	
PP23604	189+83.44	-397.96	633319.1620	1925089.7530	605.75	MAG		PP23604	193022.3459	586726.8234	184.63	633274.1464	1924952.9198	
PP23606	190+02.48	-397.99	633303.9900	1925101.2450	606.00	MAG		PP23606	193017.7218	586730.3259	184.71	633258.9755	1924964.4110	
PP23608	190+02.54	-585.90	633417.1010	1925251.2960	604.98	IPID		PP23608	193052.1956	586776.0583	184.40	633372.0784	1925114.4514	
PP23702	190+43.83	45.28	633003.9940	1924772.3800	610.55	IPID		PP23702	192926.2893	586630.0948	186.10	632959.0008	1924635.5694	1
H1212	190+51.46	-44.94	633052.3760	1924848.9010	610.10	MAG		H1212	192941.0351	586653.4168	185.96	633007.3794	1924712.0850	
H1214	190+52.57	-586.11	633378.2010	1925280.9930	604.87	IPID	IRON PIN & CAP "HANCOCK"	H1214	193040.3397	586785.1093	184.36	633333.1812	1925144.1462	
PP24002	192+27.23	-45.85	632912.8020	1924955.7470	610.32	IPIN		PP24002	192898.4959	586685.9812	186.03	632867.8153	1924818.9234	
PP24004	192+28.45	-460.61	633162.2300	1925287.1330	603.01	IPID		PP24004	192974.5163	586786.9807	183.80	633117.2256	1925150.2858	
H241006	193+44.46	289.56	632616.8570	1924759.1310	609.41	IPID		H241006	192808.2981	586626.0568	185.75	632571.8913	1924622.3213	
H241001	193+45.20	52.81	632759.1940	1924948.3200	608.99	IPIN		H241001	192851.6794	586683.7176	185.62	632714.2182	1924811.4969	
H1208	194+84.10	-44.80	632707.3920	1925109.9860	607.97	MAG		H1208	192835.8913	586732.9900	185.31	632662.4199	1924973.1514	
H1209	194+84.83	-340.65	632885.4150	1925346.2780	605.06	IPID	IRON PIN & CAP "HANCOCK"	H1209	192890.1489	586805.0068	184.42	632840.4302	1925209.4266	
H1207	195+39.05	-44.85	632663.6170	1925143.1970	607.35	MAG		H1207	192822.5496	586743.1120	185.12	632618.6480	1925006.3600	

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET PROJECT COORDINATES (FT) ARE RELATIVE TO STATE PLANE GRID COORDINATES (M) BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655							EXISTING BOUNDARY POINTS	STATE PLANE GRID COORDINATES - METERS HORZ. DATUM - NAD83(1995), OHIO NORTH ZONE VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)						MONUMENTS TO BE RESET AFTER CONSTRUCTION ITEM 623E40520
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT				DESCRIPTION	NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE								
H241005	195+79.38	289.66	632429.5140	1924900.8800	606.83	PK		H241005	192751.1999	586669.2589	184.96	632384.5616	1924764.0603	
H244001	195+79.86	171.78	632500.2940	1924995.1410	607.64	PK		H244001	192772.7721	586697.9877	185.21	632455.3366	1924858.3146	
H241004	195+80.20	58.7	632568.2940	1925085.4930	606.98	IPID		H241004	192793.4971	586725.5251	185.01	632523.3318	1924948.6601	
H244002	196+05.39	218.19	632451.9270	1924973.5550	607.82	IPID		H244002	192758.0309	586691.4087	185.26	632406.9730	1924836.7301	
H246003	196+45.76	187.58	632438.2240	1925022.3350	607.47	IPIN		H246003	192753.8545	586706.2758	185.16	632393.2710	1924885.5066	
H246001	196+46.12	60.78	632514.4910	1925123.6340	606.56	IPIN		H246001	192777.0991	586737.1496	184.88	632469.5326	1924986.7984	
H244004	196+86.62	561.49	632179.9210	1924748.9180	606.70	MAG		H244004	192675.1292	586622.9441	184.92	632134.9864	1924612.1091	
P4	196+97.41	2454.17	631028.6710	1923246.5830	614.78	CMON		P4	192324.2524	586165.0640	187.39	630983.8182	1923109.8809	
H246004	197+37.71	189.95	632363.4910	1925075.9510	607.87	PK		H246004	192731.0775	586722.6169	185.28	632318.5433	1924939.1188	
H1200	197+59.91	-58.63	632495.8680	1925287.5240	606.45	IPIN		H1200	192771.4232	586787.0999	184.85	632450.9109	1925150.6768	
H1201	197+81.05	-157.71	632538.8330	1925379.2730	606.24	IPIN		H1201	192784.5180	586815.0630	184.78	632493.8729	1925242.4193	
P24	198+21.18	-101.94	632473.1660	1925359.0440	604.61	MONBOX		P24	192764.5041	586808.8976	184.29	632428.2105	1925222.1917	
P23	198+44.83	-182.85	632503.1610	1925437.8180	604.77	MONBOX		P23	192773.6459	586832.9063	184.33	632458.2034	1925300.9601	
H1223	198+61.11	-134.32	632460.8820	1925408.9620	606.25	IPIPE	1 1/4" PIPE	H1223	192760.7602	586824.1116	184.79	632415.9274	1925272.1062	
H1202	198+68.76	-294.75	632551.6350	1925541.4730	607.06	IPID		H1202	192788.4198	586864.4982	185.03	632506.6740	1925404.6077	
H1203	198+93.25	-332.91	632555.1550	1925586.6720	607.73	IPID		H1203	192789.4926	586878.2739	185.24	632510.1937	1925449.8035	
P22	199+60.26	-363.37	632520.1270	1925651.4140	605.50	MONBOX		P22	192778.8168	586898.0059	184.56	632475.1682	1925514.5409	
H1199	200+02.69	-579.54	632616.7980	1925849.3610	606.86	MAG		H1199	192808.2801	586958.3359	184.97	632571.8323	1925712.4739	
H1220	200+87.00	-293.07	632376.6460	1925671.8840	607.23	IPIPE		H1220	192735.0868	586904.2447	185.08	632331.6974	1925535.0095	
H248002	201+48.31	79.16	632103.0480	1925412.1620	605.86	IPIN		H248002	192651.6999	586825.0869	184.67	632058.1188	1925275.3059	
H1221	201+48.44	-69.97	632192.9790	1925531.1220	607.00	IPIPE		H1221	192679.1090	586861.3434	185.01	632148.0435	1925394.2575	
H248005	201+59.65	810.45	631652.5110	1924836.0190	606.94	IPID		H248005	192514.3857	586649.4906	185.00	631607.6139	1924699.2039	
H248003	201+83.44	119.17	632050.8890	1925401.4670	607.13	IPIPE		H248003	192635.8030	586821.8273	185.05	632005.9636	1925264.6117	
H1222	202+18.21	-120.06	632167.5920	1925613.1740	607.53	IPIPE		H1222	192671.3716	586886.3511	185.18	632122.6583	1925476.3036	
H1217	202+84.58	-943.06	632611.5450	1926309.3370	607.27	IPID		H1217	192806.6791	587098.5269	185.10	632566.5797	1926172.4172	
P6	212+17.78	-1091.66	631957.3100	1926991.1900	601.28	CMON		P6	192607.2821	587306.3414	183.27	631912.3912	1926854.2217	
H1031	212+23.73	580.48	630943.0660	1925661.7570	614.99	IPID	IRON PIPE & CAP "HARTUNG"	H1031	192298.1618	586901.1582	187.45	630898.2193	1925524.8832	
P2	212+87.52	1935.91	630073.9170	1924619.7190	622.53	MONBOX		P2	192033.2635	586583.5670	189.75	630029.1321	1924482.9193	
H1032	213+69.97	-75.07	631222.2480	1926272.6460	606.30	IPIPE	3/4" BENT IRON PIPE TO BE REPLACED WITH RP24901	H1032	192383.2506	587087.3443	184.80	631177.3815	1926135.7288	
H1034	214+14.53	74.95	631096.1580	1926179.9510	610.35	IPID	5/8" CAPPED IRON ROD FD. - #7931 REPLACE WITH RP25001	H1034	192344.8211	587059.0928	186.04	631051.3004	1926043.0404	
H1090	215+69.94	-60.06	631053.7700	1926381.4050	608.32	IPID	IRON PIN & CAP "MARTIN"	H1090	192331.9021	587120.4918	185.42	631008.9154	1926244.4800	1
H1047	215+72.05	-250.02	631166.7670	1926534.1150	607.49	IPID		H1047	192366.3412	587167.0345	185.16	631121.9044	1926397.1792	
H1046	216+66.80	59.92	630904.1220	1926344.2350	610.59	IPIN	5/8" PIN	H1046	192286.2925	587109.1631	186.11	630859.2781	1926207.3127	1
H1030	217+13.18	927.83	630343.1800	1925680.3370	609.01	IPIN	5/8" IN TREE ROOT	H1030	192115.3292	586906.8210	185.63	630298.3759	1925543.4619	
H1087	218+11.98	-471.79	631109.3840	1926855.7620	599.97	IPIPE	3/4" PIPE BENT	H1087	192348.8521	587265.0658	182.87	631064.5255	1926718.8033	
H1029	219+25.56	1078.45	630082.9390	1925688.4810	607.01	IPIPE	5/8" PIPE IN CONCRETE	H1029	192036.0132	586909.3031	185.02	630038.1534	1925551.6053	
H1084	220+43.00	-307	630825.7330	1926863.8630	610.12	IPIPE	1 1/4" PIPE	H1084	192262.4012	587267.5348	185.96	630780.8946	1926726.9037	
H1085	221+44.47	-449.34	630830.7700	1927038.5900	613.37	IPIPE	1 1/4" PIPE	H1085	192263.9364	587320.7879	186.96	630785.9313	1926901.6183	
P1	222+47.44	716.09	630045.0950	1926171.6820	611.87	MONBOX		P1	192024.4792	587056.5726	186.50	630000.3121	1926034.7719	
H1023	222+50.04	291.51	630299.3540	1926511.7220	611.28	IPID	IRON PIPE & CAP "HANCOCK"	H1023	192101.9720	587160.2096	186.32	630254.5530	1926374.7878	
H1078	223+23.86	-318.48	630605.3680	1927044.8120	613.02	IPID	IRON PIPE & CAP "HANCOCK"	H1078	192195.2386	587322.6842	186.85	630560.5453	1926907.8399	
H1079	223+41.20	-341.81	630603.5600	1927075.0600	612.85	IPIPE	1" PIPE	H1079	192194.6876	587331.9032	186.80	630558.7374	1926938.0857	
H1050	223+67.66	635.97	630011.3200	1926296.6620	611.02	IPIPE	3/4" PIPE	H1050	192014.1853	587094.6639	186.24	629966.5395	1926159.7431	
P14	223+70.66	-1071.35	631000.1400	1927688.4860	614.21	MONBOX		P14	192315.5568	587518.8625	187.21	630955.2892	1927551.4681	
SV11642	223+78.19	515.76	630074.1380	1926399.4870	614.04	IPIN		SV11642	192033.3309	587126.0028	187.16	630029.3531	1926262.5607	
P15	223+80.82	-924.19	630903.7810	1927576.4130	613.75	MONBOX		P15	192286.1886	587484.7050	187.07	630858.9371	1927439.4031	
SV11776	223+89.29	645.92	629991.8640	1926298.2440	613.29	POST		SV11776	192008.2555	587095.1460	186.93	629947.0849	1926161.3249	
H1035	224+16.63	-250.01	630482.5970	1927048.2480	614.07	MAG		H1035	192157.8206	587323.7315	187.17	630437.7830	1926911.2756	
H1036	224+26.83	-268.94	630484.1310	1927070.1520	613.35	IPIN	1/2" PIN BENT	H1036	192158.2881	587330.4073	186.95	630439.3169	1926933.1781	
H1028	224+51.08	179.13	630212.5080	1926712.9560	611.44	IPIPE	1" PIPE	H1028	192075.5031	587221.5415	186.37	630167.7132	1926576.0075	
SV11692	224+52.78	437.53	630067.3360	1926499.1860	613.90	IPIPE		SV11692	192031.2578	587156.3889	187.12	630022.5515	1926362.2527	

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET PROJECT COORDINATES (FT) ARE RELATIVE TO STATE PLANE GRID COORDINATES (M) BY A PROJECT ADJUSTMENT FACTOR (PAF) MULTIPLIER OF 3.28106655							EXISTING BOUNDARY POINTS	STATE PLANE GRID COORDINATES - METERS HORZ. DATUM - NAD83(1995), OHIO NORTH ZONE VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)						MONUMENTS TO BE RESET AFTER CONSTRUCTION ITEM 623E40520
NAME	CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT				DESCRIPTION	NAME	NORTH(m)	EAST(m)	ORTHO HT(m)	NORTH (US FT)	EAST (US FT)	RIGHT OF WAY PIN (TYPE "B")
	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	ELEVATION(ft)	FEATURE								
H1049	224+53.69	-236.96	630442.0000	1927060.0460	614.55	MAG		H1049	192145.4475	587327.3272	187.32	630397.1889	1926923.0728	
H1009	224+84.89	504.31	630008.1010	1926458.3130	613.47	IPIN	1/2" PIN	H1009	192013.2042	587143.9317	186.99	629963.3208	1926321.3826	
SV15850	225+02.36	-794.77	630700.4280	1927557.6740	617.42	IPIPE		SV15850	192224.2109	587478.9938	188.19	630655.5985	1927420.6654	
SV15849	225+02.37	-794.77	630700.4210	1927557.6800	617.34	IPIPE		SV15849	192224.2088	587478.9956	188.17	630655.5915	1927420.6714	
SV11582	225+25.24	345.81	630065.0200	1926610.1760	613.96	IPIPE		SV11582	192030.5519	587190.2163	187.14	630020.2357	1926473.2348	
H1080	225+40.27	-568.97	630539.6550	1927392.3410	600.55	IPIN	5/8" PIN	H1080	192175.2107	587428.6038	183.05	630494.8370	1927255.3442	
H1026	225+50.35	44.84	630205.2670	1926877.4970	613.29	IPIN	1/2" PIN BENT	H1026	192073.2962	587271.6902	186.93	630160.4727	1926740.5368	1
P13	225+55.03	-1342.18	630931.8860	1928058.9660	621.76	MONBOX		P13	192294.7544	587631.7770	189.51	630887.0401	1927921.9218	
H1010	225+55.26	414.31	630006.5860	1926565.9570	614.54	IPIPE	I" PIPE PINCHED	H1010	192012.7425	587176.7393	187.31	629961.8059	1926429.0189	
SV15853	225+69.33	-802.57	630632.0890	1927609.8760	619.18	IPIPE		SV15853	192203.3826	587494.9039	188.73	630587.2644	1927472.8637	
H1070	225+81.68	-44.02	630225.0780	1926969.6050	616.25	IPIN	1/2" PIN BENT	H1070	192079.3342	587299.7627	187.83	630180.2823	1926832.6382	1
H1027	225+85.46	157.46	630117.5060	1926799.2020	614.74	IPIPE	1" PIPE	H1027	192046.5485	587247.8275	187.37	630072.7180	1926662.2473	
P12	226+47.64	-1365.87	630826.9570	1928149.2430	623.65	MONBOX		P12	192262.7743	587659.2916	190.09	630782.1185	1928012.1924	
P16	226+49.26	-717.74	630501.8230	1927588.5620	620.13	MONBOX		P16	192163.6803	587488.4078	189.02	630457.0077	1927451.5512	
H1069	226+72.13	-56.53	630151.9710	1927026.8940	616.74	IPID	IRON PIN & CAP "BOWER"	H1069	192057.0527	587317.2232	187.98	630107.1805	1926889.9232	
SV11787	226+79.25	581.22	629833.5650	1926474.2870	619.15	IPIN		SV11787	191960.0093	587148.8002	188.72	629788.7972	1926337.3554	
H1012	227+33.33	484.78	629841.3730	1926580.0070	617.66	IPID	IRON PIPE & CAP "HARTUNG"	H1012	191962.3890	587181.0215	188.26	629796.6046	1926443.0679	
H1013	227+39.28	486.27	629836.3080	1926581.0210	616.74	IPIPE	1" PIPE	H1013	191960.8453	587181.3305	187.98	629791.5400	1926444.0818	
H1068	227+57.76	-114.48	630102.2660	1927119.9620	616.38	IPIN	1/2" PIN	H1068	192041.9037	587345.5884	187.87	630057.4791	1926982.9845	
P11	227+63.75	-1163.54	630582.9090	1928052.4740	620.61	MONBOX		P11	192188.3936	587629.7984	189.16	630538.0879	1927915.4303	
P10	227+77.94	-1208.35	630585.7750	1928101.4830	621.40	MONBOX		P10	192189.2671	587644.7353	189.40	630540.9537	1927964.4358	
P9	227+97.17	-1256.84	630583.4080	1928157.1830	621.36	MONBOX		P9	192188.5457	587661.7115	189.39	630538.5869	1928020.1318	
H503	228+14.04	63.00	629970.7180	1926987.9940	615.61	IPID	IRON PIPE & CAP "HARTUNG"	H503	192001.8106	587305.3673	187.64	629925.9404	1926851.0259	
H1000	228+14.73	-65.15	630027.4700	1927102.8970	616.83	IPIN	3/4" PIN	H1000	192019.1075	587340.3873	188.01	629982.6884	1926965.9208	
H1003	228+41.19	44.97	629954.8390	1927015.9700	614.95	IPID	IRON PIN & CAP "6505"	H1003	191996.9711	587313.8938	187.44	629910.0625	1926878.9999	
H1065	228+46.45	-385.58	630138.6180	1927405.3650	607.75	IPIN	1/2" PIN BENT	H1065	192052.9830	587432.5732	185.24	630093.8285	1927268.3673	
H502	228+74.52	49.57	629923.3090	1927026.0550	614.57	IPID	IRON PIN & CAP "HARTUNG"	H502	191987.3614	587316.9675	187.32	629878.5348	1926889.0842	
H1015	229+01.60	425.58	629741.1960	1926696.1610	619.18	IPIN	1/2" PIN	H1015	191931.8572	587216.4228	188.73	629696.4347	1926559.2137	
H1058	229+13.33	-564.41	630144.4990	1927600.3530	618.04	IPIN	1/2" PIN	H1058	192054.7754	587492.0014	188.38	630099.7091	1927463.3414	
H27	229+14.25	-564.25	630143.4290	1927600.6730	618.18	MAG		H27	192054.4493	587492.0990	188.42	630098.6391	1927463.6614	
H1098	229+16.15	369.91	629753.0830	1926751.9680	618.21	RSPK		H1098	191935.4801	587233.4316	188.43	629708.3209	1926615.0167	
H1018	229+34.73	548.51	629665.1640	1926595.7340	618.64	IPID	IRON PIPE & CAP "HARTUNG"	H1018	191908.6842	587185.8147	188.56	629620.4081	1926458.7938	
H1020	229+72.35	671.45	629588.4410	1926495.2150	621.51	IPID	IRON PIPE & CAP "HARTUNG"	H1020	191885.3007	587155.1786	189.44	629543.6906	1926358.2819	
P17	230+03.22	-1047.07	630233.1710	1928088.5190	627.37	MAG		P17	192081.8008	587640.7842	191.22	630188.3748	1927951.4727	
H1062	230+03.27	-1047.07	630233.1120	1928088.5520	627.43	MAG		H1062	192081.7828	587640.7942	191.24	630188.3158	1927951.5057	
HA1062	230+04.65	-1049.53	630232.3250	1928091.5450	627.48	MAG		HA1062	192081.5429	587641.7064	191.26	630187.5288	1927954.4985	
H1002	230+25.16	-75.05	629835.4190	1927201.2270	616.75	IPID		H1002	191960.5744	587370.3562	187.99	629790.6510	1927064.2438	
SV11799	230+29.35	-1118.34	630227.2570	1928168.1480	627.80	MAG		SV11799	192079.9983	587665.0534	191.35	630182.4612	1928031.0960	
H1063	230+29.47	-1118.36	630227.1160	1928168.2340	628.00	MAG		H1063	192079.9554	587665.0796	191.41	630182.3202	1928031.1820	
P18	231+31.43	-1431.99	630203.6040	1928513.9000	622.72	MONBOX		P18	192072.7894	587770.4313	189.81	630158.8099	1928376.8235	
H1054	231+34.65	-454.88	629861.8340	1927598.4980	617.33	IPID	IRON PIN & CAP "HANCOCK"	H1054	191968.6251	587491.4361	188.16	629817.0641	1927461.4865	
H1060	231+59.88	-933.88	629995.6960	1928059.4740	623.61	IPIN	1/2" PIN BENT BADLY	H1060	192009.4234	587631.9319	190.08	629950.9166	1927922.4298	
H1061	231+64.60	-970.41	630002.0520	1928095.9940	623.37	IPID		H1061	192011.3606	587643.0624	190.00	629957.2722	1927958.9472	
H1096	232+74.81	1176.53	629215.1490	1926095.6830	620.71	IPIPE	1 " PIPE	H1096	191771.5291	587033.4097	189.19	629170.4251	1925958.7783	
H1095	234+32.36	1618.75	628930.8400	1925722.1300	619.35	IPID	IRON PIN & CAP "HANCOCK"	H1095	191684.8777	586919.5586	188.78	628886.1363	1925585.2519	
P21	234+76.06	-2463.29	630127.8770	1929624.9490	625.16	MONBOX		P21	192049.7094	588109.0557	190.55	630083.0882	1929487.7935	
P20	235+00.07	-2523.96	630123.4090	1929690.0440	625.72	MONBOX		P20	192048.3476	588128.8953	190.72	630078.6206	1929552.8839	
P19	236+29.48	-2851.44	630099.4740	1930041.3590	630.18	MONBOX		P19	192041.0528	588235.9687	192.08	630054.6873	1929904.1739	
H1057	237+42.26	-444.40	629261.6110	1927782.0300	625.26	IPIN	5/8" PIN	H1057	191785.6898	587547.3728	190.58	629216.8838	1927645.0055	

FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

*℄ SYCAMORE LINE RD

PROJECT GROUND COORDINATES - US SURVEY FEET						PROPOSED RIGHT OF WAY MONUMENTS	STATE PLANE GRID COORDINATES - METERS					MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)							HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS					ITEM 623E40520
CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					RIGHT OF WAY PIN (TYPE "B")
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	NORTH (US FT)	EAST (US FT)	
RP2001	*7+96.18	30.00	648838.4414	1914448.1650	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2001	197752.2955	583483.4915	648792.3227	1914312.0882	
RP2004	*8+29.12	114.51	648803.7699	1914429.6740	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2004	197741.7283	583477.8558	648757.6537	1914293.5985	
RP2002	*8+30.00	50.00	648799.0046	1914417.2340	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2002	197740.2760	583474.0643	648752.8887	1914281.1594	
RP2003	*8+34.21	62.64	648801.8070	1914365.1870	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2003	197741.1301	583458.2015	648755.6909	1914229.1161	
RP2202	*8+35.00	-30.00	648753.3457	1914511.9750	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2202	197726.3601	583502.9394	648707.2331	1914375.8937	1
RP2203	*8+35.00	-35.00	648753.5659	1914516.9700	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2203	197726.4272	583504.4618	648707.4532	1914380.8883	
RP2204	*9+16.00	-35.00	648721.5970	1914518.3790	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2204	197716.6838	583504.8912	648675.4866	1914382.2972	
RP3301	*9+31.2	53.41	648702.5981	1914430.7239	MAGS	MAGNETIZED SURVEY NAIL	RP3301	197710.8933	583478.1758	648656.4891	1914294.6484	
RP2205	*9+40.29	-51.38	648698.0474	1914535.8180	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2205	197709.5063	583510.2062	648651.9387	1914399.7350	
RP2206	0+03.80	-48.36	648693.9350	1914532.9740	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP2206	197708.2530	583509.3395	648647.8266	1914396.8912	
RP3302	0+06.31	42.71	648687.3766	1914442.1012	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP3302	197706.2541	583481.6433	648641.2686	1914306.0249	1
RP3901	0+25.00	30.00	648669.2713	1914455.6340	MAGS	MAGNETIZED SURVEY NAIL	RP3901	197700.7360	583485.7679	648623.1646	1914319.5567	1
RP4002	0+80.93	30.00	648613.3921	1914458.1230	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP4002	197683.7052	583486.5264	648567.2894	1914322.0455	1
RP4003	0+82.11	33.00	648612.0848	1914455.1780	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP4003	197683.3067	583485.6289	648565.9822	1914319.1007	1
RP4101	1+50.00	30.00	648544.3951	1914461.1960	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP4101	197662.6763	583487.4630	648498.2973	1914325.1183	
RP4102	1+50.00	33.00	648544.2616	1914458.1990	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP4102	197662.6357	583486.5496	648498.1638	1914322.1215	
RP6010	15+15.20	-30.00	647183.2131	1914581.8786	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6010	197247.8167	583524.2446	647137.2121	1914445.7923	
RP6011	15+15.20	-36.00	647183.4800	1914587.8726	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6011	197247.8981	583526.0714	647137.4789	1914451.7859	
RP6012	15+25.20	-36.00	647173.4899	1914588.3176	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6012	197244.8533	583526.2070	647127.4896	1914452.2309	
RP6013	15+25.20	-30.00	647173.2230	1914582.3235	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6013	197244.7720	583524.3801	647127.2227	1914446.2372	
RP6101	16+66.00	30.00	647029.8964	1914528.6470	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6101	197201.0890	583508.0207	646983.9063	1914392.5645	
RP6102	16+88.58	36.84	647007.0308	1914522.8160	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6102	197194.1201	583506.2435	646961.0423	1914386.7339	
RP6103	16+93.12	43.74	647002.1956	1914516.1310	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6103	197192.6464	583504.2061	646956.2074	1914380.0494	
RP6001	16+95.00	-30.00	647003.5947	1914589.8780	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6001	197193.0728	583526.6826	646957.6064	1914453.7912	
RP6002	16+95.00	-38.00	647003.9506	1914597.8700	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6002	197193.1813	583529.1184	646957.9623	1914461.7826	
RP6003	17+25.00	-38.00	646973.9803	1914599.2050	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6003	197184.0470	583529.5253	646927.9941	1914463.1175	
RP6004	17+25.00	-30.00	646973.6244	1914591.2130	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6004	197183.9385	583527.0895	646927.6383	1914455.1261	
RP6009	17+62.00	-30.71	646936.6953	1914593.5730	MAGS	MAGNETIZED SURVEY NAIL	RP6009	197172.6833	583527.8088	646890.7118	1914457.4859	
RP6005	18+54.03	-41.25	646874.0471	1914619.0080	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6005	197153.5894	583535.5608	646828.0680	1914482.9191	1
RP6802	19+53.72	52.24	646738.4800	1914601.6860	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6802	197112.2714	583530.2814	646692.5106	1914465.5983	
RP6801	19+62.00	41.25	646738.2120	1914615.4420	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6801	197112.1898	583534.4740	646692.2426	1914479.3533	
RP6803	19+62.00	47.25	646734.6954	1914610.5810	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP6803	197111.1180	583532.9924	646688.7262	1914474.4927	
RP18101	123+71.86	50.00	638327.5463	1920750.4320	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18101	194548.7960	585404.2897	638282.1747	1920613.9073	
RP18102	123+71.86	60.00	638321.5239	1920742.4490	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18102	194546.9604	585401.8567	638276.1527	1920605.9248	
RP18103	123+96.05	60.00	638302.2128	1920757.0170	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18103	194541.0748	585406.2967	638256.8430	1920620.4918	1
RP17901	125+15.00	45.00	638216.2897	1920840.6250	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17901	194514.8873	585431.7787	638170.9260	1920704.0939	1
RP17902	125+15.00	60.00	638207.2562	1920828.6500	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17902	194512.1341	585428.1289	638161.8932	1920692.1197	1
RE18502	126+76.00	-46.56	638142.8979	1921010.6780	CALC	EX. 1" PIPE (H1301) FOUND 0.45' N & 0.45' E OF RE18502	RE18502	194492.5190	585483.6072	638097.5394	1920874.1348	1
RE18601	126+94.70	-45.00	638127.0340	1921020.6940	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE18601	194487.6840	585486.6599	638081.6767	1920884.1501	1
RP18607	127+93.00	-45.00	638048.5575	1921079.8941	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18607	194463.7660	585504.7029	638003.2057	1920943.3460	
RP18608	127+93.00	-55.00	638054.5798	1921087.8773	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18608	194465.6015	585507.1360	638009.2276	1920951.3286	
RP17906	128+00.00	45.00	637988.7683	1921012.2610	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17906	194445.5435	585484.0897	637943.4208	1920875.7177	1
RP17907	128+00.00	65.00	637976.7237	1920996.2950	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17907	194441.8726	585479.2236	637931.3771	1920859.7528	
RP18609	128+03.00	-55.00	638046.5966	1921093.8997	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18609	194463.1684	585508.9715	638001.2450	1920957.3506	
RP18610	128+03.00	-45.00	638040.5743	1921085.9165	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18610	194461.3329	585506.5384	637995.2231	1920949.3679	
RP17909	130+25.00	65.00	637797.1016	1921131.7970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17909	194387.1276	585520.5218	637751.7677	1920995.2452	1
RP17910	130+25.00	45.00	637809.1462	1921147.7630	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17910	194390.7985	585525.3879	637763.8115	1921011.2100	1
RE17901	130+71.87	45.00	637771.7279	1921175.9910	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE17901	194379.3942	585533.9912	637726.3958	1921039.4360	1
RP18602	132+20.00	-55.00	637713.6970	1921345.0310	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18602	194361.7076	585585.5110	637668.3690	1921208.4640	
RP18603	132+20.00	-45.00	637707.6749	1921337.0480	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18603	194359.8722	585583.0780	637662.3474	1921200.4816	1
RP17918	132+25.00	48.62	637647.2998	1921265.3170	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17918	194341.4711	585561.2159	637601.9766	1921128.7557	1
RP17919	132+25.00	60.00	637640.4486	1921256.2350	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17919	194339.3830	585558.4479	637595.1259	1921119.6743	1
RP18604	132+61.32	-78.00	637694.5646	1921388.2740	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18604	194355.8765	585598.6906	637649.2380	1921251.7039	
RP17916	132+83.14	60.00	637594.0357	1921291.2480	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP17916	194325.2374	585569.1191	637548.7163	1921154.6848	1

FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

ERI-250-0.00

16/20
17/178
516/677

9/10/2014 3:36:02 PM
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ERI-250-0.00

CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET						PROPOSED RIGHT OF WAY MONUMENTS	STATE PLANE GRID COORDINATES - METERS					MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)							HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS					
CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					ITEM 623E40520 RIGHT OF WAY PIN (TYPE "B")
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	NORTH (US FT)	EAST (US FT)	
RE20510	161+94.70	45.00	635278.7112	1923056.6600	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20510	193619.5752	586107.1795	635233.5563	1922919.9714	
RE20507	162+34.70	70.00	635231.7225	1923060.7910	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20507	193605.2540	586108.4385	635186.5710	1922924.1021	
RE20508	162+34.70	50.00	635243.7672	1923076.7570	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20508	193608.9250	586113.3046	635198.6148	1922940.0669	
RE20903	162+44.70	-50.00	635296.0073	1923162.6120	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20903	193624.8467	586139.4714	635250.8512	1923025.9158	1
RE20904	162+44.70	-75.00	635311.0632	1923182.5700	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20904	193629.4354	586145.5542	635265.9060	1923045.8724	
RE20905	162+71.29	-75.00	635289.8358	1923198.5830	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20905	193622.9658	586150.4346	635244.6801	1923061.8843	
RE20505	162+99.70	50.00	635191.8763	1923115.9020	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20505	193593.1098	586125.2352	635146.7276	1922979.2091	
RE20506	162+99.70	70.00	635179.8317	1923099.9360	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20506	193589.4388	586120.3691	635134.6839	1922963.2443	
RP21002	163+48.86	-75.00	635227.9047	1923245.3020	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21002	193604.0905	586164.6736	635182.7534	1923108.5999	1
RP21003	163+62.45	-59.74	635207.8685	1923241.2970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21003	193597.9838	586163.4530	635162.7187	1923104.5952	1
RE20503	164+04.70	45.00	635111.0639	1923183.1280	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20503	193568.4798	586145.7243	635065.9209	1923046.4304	
RE20504	164+04.70	50.00	635108.0527	1923179.1370	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20504	193567.5621	586144.5079	635062.9100	1923042.4396	
RP21004	164+04.70	-50.00	635168.2761	1923258.9690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21004	193585.9169	586168.8390	635123.1291	1923122.2660	1
RE20502	164+92.06	45.00	635041.3240	1923235.7380	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20502	193547.2246	586161.7587	634996.1860	1923099.0366	
RP21005	165+60.00	-50.00	635044.2953	1923352.4970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21005	193548.1302	586197.3444	634999.1571	1923215.7873	1
RP21009	165+85.00	-60.00	635030.3596	1923375.5360	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21009	193543.8829	586204.3662	634985.2224	1923238.8247	
RP20810	165+90.00	-75.00	635035.4015	1923390.5220	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20810	193545.4195	586208.9336	634990.2639	1923253.8096	
RP21103	166+00.00	58.00	634947.3213	1923290.3674	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21103	193518.5745	586178.4086	634902.1900	1923153.6621	1
RP21104	166+00.00	45.00	634955.1504	1923300.7460	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21104	193520.9607	586181.5718	634910.0185	1923164.0400	1
RP21011	166+14.80	-75.00	635015.6066	1923405.4550	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21011	193539.3865	586213.4849	634970.4704	1923268.7416	
RP21101	166+59.27	58.00	634900.0067	1923326.0604	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21101	193504.1540	586189.2871	634854.8787	1923189.3526	1
RP20814	166+65.50	-75.00	634975.1245	1923435.9930	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20814	193527.0484	586222.7922	634929.9912	1923299.2774	
RP21401	166+75.00	45.00	634895.2763	1923345.9130	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21401	193502.7123	586195.3377	634850.1487	1923209.2038	1
RP21402	166+75.00	58.00	634887.4473	1923335.5349	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21402	193500.3262	586192.1747	634842.3202	1923198.8264	1
RP21201	166+75.50	-75.00	634967.1413	1923442.0160	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21201	193524.6153	586224.6279	634922.0086	1923305.3000	
RP21202	167+09.31	-50.00	634925.0991	1923442.4150	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21202	193511.8017	586224.7495	634879.9694	1923305.6989	1
RE21402	168+19.30	45.00	634780.0803	1923432.8140	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21402	193467.6030	586221.8233	634734.9609	1923296.0986	1
RP21203	168+29.58	-50.00	634829.0868	1923514.8450	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21203	193482.5392	586246.8246	634783.9639	1923378.1238	1
RE21404	169+79.30	45.00	634652.3490	1923529.1710	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21404	193428.6732	586251.1909	634607.2386	1923392.4488	1
RP21204	171+29.38	-50.00	634589.7467	1923695.3970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21204	193409.5933	586301.8531	634544.6408	1923558.6630	1
RP21205	171+75.00	-75.00	634568.3841	1923742.8280	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21205	193403.0825	586316.3090	634523.2797	1923606.0906	1
RP21206	172+49.61	-75.00	634508.8181	1923787.7630	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21206	193384.9280	586330.0043	634463.7179	1923651.0224	
RE21702	172+99.25	65.00	634384.8764	1923705.8930	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21702	193347.1532	586305.0520	634339.7851	1923569.1582	
RE21803	173+03.60	-75.00	634465.7182	1923820.2770	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21803	193371.7921	586339.9139	634420.6211	1923683.5341	
RE21906	173+14.70	50.00	634381.5810	1923727.1690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21906	193346.1488	586311.5365	634336.4899	1923590.4327	
RE21907	173+14.70	65.00	634372.5475	1923715.1940	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21907	193343.3956	586307.8868	634327.4570	1923578.4585	
RP22601	173+92.11	-75.00	634395.0568	1923873.5820	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22601	193350.2560	586356.1601	634349.9647	1923736.8353	1
RP22602	174+28.28	-75.00	634366.1883	1923895.3590	MAGS	MAGNETIZED SURVEY NAIL	RP22602	193341.4574	586362.7973	634321.0983	1923758.6107	1
RP21905	174+34.70	50.00	634285.7826	1923799.4370	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21905	193316.9515	586333.5623	634240.6983	1923662.6956	1
RP21906	174+34.70	54.00	634283.3736	1923796.2430	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21906	193316.2173	586332.5888	634238.2895	1923659.5018	1
RP22101	174+57.00	-75.00	634343.2576	1923912.6580	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22101	193334.4686	586368.0696	634298.1692	1923775.9085	1
RP22103	175+20.00	-50.00	634277.9076	1923930.6400	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22103	193314.5513	586373.5502	634232.8239	1923793.8892	1
RP21903	175+44.27	54.00	634195.8982	1923862.2330	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21903	193289.5566	586352.7012	634150.8203	1923725.4871	1
RP22104	177+00.00	-50.00	634134.2099	1924039.0420	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22104	193270.7553	586406.5888	634089.1364	1923902.2835	1
RP22105	177+32.00	-75.00	634123.7195	1924078.2720	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22105	193267.5581	586418.5453	634078.6467	1923941.5107	1
RP22605	177+62.03	-75.00	634099.7474	1924096.3560	MAGS	MAGNETIZED SURVEY NAIL	RP22605	193260.2519	586424.0569	634054.6763	1923959.5935	1
RP22302	178+00.00	-75.00	634069.4337	1924119.2230	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22302	193251.0129	586431.0263	634024.3648	1923982.4588	
RP22303	178+02.22	-67.37	634063.0620	1924114.4680	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22303	193249.0709	586429.5771	634017.9935	1923977.7042	1
RP22304	178+13.00	-59.07	634049.4620	1924114.3300	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22304	193244.9259	586429.5350	634004.3945	1923977.5662	1
RP22305	178+65.00	-50.00	634002.4870	1924138.4110	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22305	193230.6089	586436.8744	633957.4228	1924001.6455	1
RP22306	179+56.72	-50.00	633929.2666	1924193.6460	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22306	193208.2929	586453.7089	633884.2076	1924056.8765	1
RP21901	179+58.38	54.00	633865.3037	1924111.6250	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21901	193188.7984	586428.7106	633820.2493	1923974.8614	1
RP22401	180+60.00	54.00	633784.1823	1924172.8210	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22401	193164.0743	586447.3619	633739.1337	1924036.0530	1
RP22501	180+78.00	-50.00	633832.4447	1924266.6860	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22501	193178.7836	586475.9699	633787.3926	1924129.9113	1

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET						PROPOSED RIGHT OF WAY MONUMENTS	STATE PLANE GRID COORDINATES - METERS					MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)							HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS					
CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					ITEM 623E40520 RIGHT OF WAY PIN (TYPE "B")
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	NORTH (US FT)	EAST (US FT)	
RP18701	133+25.32	-78.00	637643.4721	1921426.8170	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18701	194340.3045	585610.4377	637598.1491	1921290.2442	1
RP18801	133+38.00	-78.00	637633.3465	1921434.4560	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18801	194337.2185	585612.7659	637588.0243	1921297.8827	
RP19001	133+55.00	53.01	637540.8768	1921340.1060	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19001	194309.0357	585584.0100	637495.5611	1921203.5394	1
RP19002	133+55.00	60.00	637536.6669	1921334.5250	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19002	194307.7526	585582.3090	637491.3515	1921197.9588	1
RP18802	133+80.00	-55.00	637585.9657	1921441.3880	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18802	194322.7778	585614.8786	637540.6468	1921304.8142	
RP18803	133+80.00	-45.00	637579.9434	1921433.4050	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18803	194320.9423	585612.4455	637534.6250	1921296.8317	1
RE18801	134+08.45	-45.00	637557.2315	1921450.5381	CALC	EX. IPIN (H1313) FOUND 0.30' SOUTH & 0.14' EAST OF RE18801	RE18801	194314.0202	585617.6673	637511.9147	1921313.9636	1
RP18902	135+09.00	-45.00	637476.9600	1921511.0928	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18902	194289.5552	585636.1231	637431.6489	1921374.5140	
RP18903	135+09.00	-52.00	637481.1757	1921516.6811	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18903	194290.8400	585637.8263	637435.8643	1921380.1019	
RP18904	135+19.00	-52.00	637473.1925	1921522.7034	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18904	194288.4069	585639.6618	637427.8816	1921386.1238	
RP18905	135+19.00	-45.00	637468.9768	1921517.1152	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP18905	194287.1220	585637.9586	637423.6662	1921380.5360	
RE19003	135+21.86	60.00	637403.4553	1921435.0170	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE19003	194267.1525	585612.9368	637358.1494	1921298.4436	
RE19103	138+46.86	45.00	637153.0347	1921642.7170	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE19103	194190.8295	585676.2394	637107.7466	1921506.1289	1
RP19102	138+46.86	60.00	637144.0012	1921630.7420	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19102	194188.0763	585672.5897	637098.7137	1921494.1547	1
RP19101	138+91.89	75.00	637099.0219	1921645.8840	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19101	194174.3676	585677.2047	637053.7376	1921509.2956	
RP19501	139+52.00	75.00	637051.0361	1921682.0840	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19501	194159.7425	585688.2377	637005.7552	1921545.4931	
RP19502	140+00.00	45.00	637030.7837	1921734.9400	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19502	194153.5700	585704.3471	636985.5043	1921598.3453	1
RP19603	140+21.52	-90.67	637095.3117	1921856.2070	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19603	194173.2368	585741.3067	637050.0277	1921719.6037	1
RP19602	140+44.38	-152.80	637114.4814	1921919.5760	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19602	194179.0793	585760.6202	637069.1960	1921782.9682	1
RP19604	140+50.00	-62.00	637055.3066	1921850.4720	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19604	194161.0441	585739.5588	637010.0254	1921713.8691	1
RP19601	141+06.48	-226.22	637109.1173	1922015.5870	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19601	194177.4444	585789.8824	637063.8323	1921878.9724	
RP19605	141+06.53	-55.00	637005.9624	1921878.9280	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19605	194146.0050	585748.2316	636960.6848	1921742.3231	1
RP19801	142+31.53	-50.00	636903.1600	1921950.2160	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP19801	194114.6730	585769.9586	636857.8897	1921813.6060	1
RP20006	143+56.46	-50.00	636803.4252	1922025.4540	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20006	194084.2759	585792.8896	636758.1619	1921888.8386	1
RP20201	143+56.46	-48.00	636802.2181	1922023.8590	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20201	194083.9080	585792.4035	636756.9549	1921887.2438	1
RP20202	145+31.53	-48.00	636662.4589	1922129.2900	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20202	194041.3124	585824.5366	636617.2057	1921992.6673	1
RP20403	145+31.53	-50.00	636663.6638	1922130.8860	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20403	194041.6796	585825.0231	636618.4105	1921994.2632	1
RE19502	146+15.15	45.00	636539.6947	1922105.4050	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE19502	194003.8964	585817.2570	636494.4502	1921968.7840	1
RP20402	148+51.95	-62.00	636415.0924	1922333.4340	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20402	193965.9203	585886.7554	636369.8567	1922196.7968	
RP20401	148+51.98	-50.00	636407.8449	1922323.8690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20401	193963.7114	585883.8402	636362.6098	1922187.2324	1
RP20603	149+50.00	-62.00	636336.8181	1922392.4820	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20603	193942.0639	585904.7520	636291.5880	1922255.8406	1
RP20605	149+65.00	-50.00	636317.6165	1922391.9350	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20605	193936.2117	585904.5853	636272.3878	1922255.2936	1
RP20606	151+50.00	-50.00	636169.9272	1922503.3490	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20606	193891.1991	585938.5419	636124.7090	1922366.6997	1
RP20607	151+50.00	-45.00	636166.9161	1922499.3570	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20607	193890.2814	585937.3253	636121.6981	1922362.7080	1
RE20601	153+94.87	-45.00	635971.4284	1922646.8280	CALC	EX. IPIN (PP20604) FOUND 0.27' SOUTH & 0.36' W OF RE20601	RE20601	193830.7008	585982.2713	635926.2243	1922510.1685	1
RP20508	154+95.00	52.00	635833.0789	1922629.6900	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20508	193788.5348	585977.0480	635787.8846	1922493.0317	
RP20509	154+95.00	45.00	635837.2945	1922635.2780	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20509	193789.8196	585978.7511	635792.0999	1922498.6193	1
RP20702	154+95.00	-45.00	635891.4955	1922707.1270	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20702	193806.3390	586000.6492	635846.2971	1922570.4632	1
RP20703	154+95.00	-77.00	635910.7669	1922732.6730	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20703	193812.2125	586008.4351	635865.5671	1922596.0074	
RP20704	155+31.44	-77.00	635881.6751	1922754.6200	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20704	193803.3459	586015.1241	635836.4774	1922617.9528	
RP20801	156+25.00	-77.00	635806.9853	1922810.9640	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20801	193780.5820	586032.2965	635761.7929	1922674.2928	
RP20506	156+44.00	45.00	635718.3448	1922725.0110	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20506	193753.5663	586006.0999	635673.1587	1922588.3459	1
RP20507	156+44.00	52.00	635714.1291	1922719.4230	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20507	193752.2814	586004.3967	635668.9433	1922582.7583	1
RP20802	156+50.96	-50.00	635769.9992	1922805.0440	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20802	193769.3094	586030.4922	635724.8094	1922668.3732	1
RP20804	158+76.00	-50.00	635590.3465	1922940.5695	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20804	193714.5551	586071.7975	635545.1695	1922803.8891	1
RP20805	158+76.00	-55.00	635593.3577	1922944.5611	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20805	193715.4728	586073.0141	635548.1805	1922807.8804	
RP20815	159+30.33	-55.00	635549.9823	1922977.2824	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20815	193702.2529	586082.9869	635504.8081	1922840.5994	
RP20806	159+57.00	-80.00	635543.7495	1923013.3000	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20806	193700.3533	586093.9643	635498.5758	1922876.6144	
RP20807	160+13.29	-80.00	635498.8139	1923047.1980	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20807	193686.6579	586104.2957	635453.6434	1922910.5100	1
RP20901	160+27.00	-80.00	635487.8671	1923055.4560	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20901	193683.3215	586106.8125	635442.6974	1922918.7674	
RP20902	160+49.13	-61.25	635458.9136	1923053.8160	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20902	193674.4971	586106.3127	635413.7459	1922917.1276	
RE20902	161+02.32	-50.00	635409.6736	1923076.8650	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20902	193659.4898	586113.3375	635364.5094	1922940.1749	1
RP20903	161+02.39	-55.00	635412.6290	1923080.8980	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20903	193660.3905	586114.5667	635367.4646	1922944.2076	
RE20509	161+94.70	50.00	635275.7000	1923052.6680	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20509	193618.6575	586105.9628	635230.5453	1922915.9796	

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET						PROPOSED RIGHT OF WAY MONUMENTS	STATE PLANE GRID COORDINATES - METERS					MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)							HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS					
CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					ITEM 623E40520 RIGHT OF WAY PIN (TYPE "B")
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	NORTH (US FT)	EAST (US FT)	
RE20510	161+94.70	45.00	635278.7112	1923056.6600	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20510	193619.5752	586107.1795	635233.5563	1922919.9714	
RE20507	162+34.70	70.00	635231.7225	1923060.7910	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20507	193605.2540	586108.4385	635186.5710	1922924.1021	
RE20508	162+34.70	50.00	635243.7672	1923076.7570	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20508	193608.9250	586113.3046	635198.6148	1922940.0669	
RE20903	162+44.70	-50.00	635296.0073	1923162.6120	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20903	193624.8467	586139.4714	635250.8512	1923025.9158	1
RE20904	162+44.70	-75.00	635311.0632	1923182.5700	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20904	193629.4354	586145.5542	635265.9060	1923045.8724	
RE20905	162+71.29	-75.00	635289.8358	1923198.5830	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20905	193622.9658	586150.4346	635244.6801	1923061.8843	
RE20505	162+99.70	50.00	635191.8763	1923115.9020	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20505	193593.1098	586125.2352	635146.7276	1922979.2091	
RE20506	162+99.70	70.00	635179.8317	1923099.9360	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20506	193589.4388	586120.3691	635134.6839	1922963.2443	
RP21002	163+48.86	-75.00	635227.9047	1923245.3020	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21002	193604.0905	586164.6736	635182.7534	1923108.5999	1
RP21003	163+62.45	-59.74	635207.8685	1923241.2970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21003	193597.9838	586163.4530	635162.7187	1923104.5952	1
RE20503	164+04.70	45.00	635111.0639	1923183.1280	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20503	193568.4798	586145.7243	635065.9209	1923046.4304	
RE20504	164+04.70	50.00	635108.0527	1923179.1370	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20504	193567.5621	586144.5079	635062.9100	1923042.4396	
RP21004	164+04.70	-50.00	635168.2761	1923258.9690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21004	193585.9169	586168.8390	635123.1291	1923122.2660	1
RE20502	164+92.06	45.00	635041.3240	1923235.7380	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE20502	193547.2246	586161.7587	634996.1860	1923099.0366	
RP21005	165+60.00	-50.00	635044.2953	1923352.4970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21005	193548.1302	586197.3444	634999.1571	1923215.7873	1
RP21009	165+85.00	-60.00	635030.3596	1923375.5360	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21009	193543.8829	586204.3662	634985.2224	1923238.8247	
RP20810	165+90.00	-75.00	635035.4015	1923390.5220	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20810	193545.4195	586208.9336	634990.2639	1923253.8096	
RP21103	166+00.00	58.00	634947.3213	1923290.3674	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21103	193518.5745	586178.4086	634902.1900	1923153.6621	1
RP21104	166+00.00	45.00	634955.1504	1923300.7460	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21104	193520.9607	586181.5718	634910.0185	1923164.0400	1
RP21011	166+14.80	-75.00	635015.6066	1923405.4550	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21011	193539.3865	586213.4849	634970.4704	1923268.7416	
RP21101	166+59.27	58.00	634900.0067	1923326.0604	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21101	193504.1540	586189.2871	634854.8787	1923189.3526	1
RP20814	166+65.50	-75.00	634975.1245	1923435.9930	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP20814	193527.0484	586222.7922	634929.9912	1923299.2774	
RP21401	166+75.00	45.00	634895.2763	1923345.9130	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21401	193502.7123	586195.3377	634850.1487	1923209.2038	1
RP21402	166+75.00	58.00	634887.4473	1923335.5349	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21402	193500.3262	586192.1747	634842.3202	1923198.8264	1
RP21201	166+75.50	-75.00	634967.1413	1923442.0160	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21201	193524.6153	586224.6279	634922.0086	1923305.3000	
RP21202	167+09.31	-50.00	634925.0991	1923442.4150	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21202	193511.8017	586224.7495	634879.9694	1923305.6989	1
RE21402	168+19.30	45.00	634780.0803	1923432.8140	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21402	193467.6030	586221.8233	634734.9609	1923296.0986	1
RP21203	168+29.58	-50.00	634829.0868	1923514.8450	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21203	193482.5392	586246.8246	634783.9639	1923378.1238	1
RE21404	169+79.30	45.00	634652.3490	1923529.1710	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21404	193428.6732	586251.1909	634607.2386	1923392.4488	1
RP21204	171+29.38	-50.00	634589.7467	1923695.3970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21204	193409.5933	586301.8531	634544.6408	1923558.6630	1
RP21205	171+75.00	-75.00	634568.3841	1923742.8280	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21205	193403.0825	586316.3090	634523.2797	1923606.0906	1
RP21206	172+49.61	-75.00	634508.8181	1923787.7630	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21206	193384.9280	586330.0043	634463.7179	1923651.0224	
RE21702	172+99.25	65.00	634384.8764	1923705.8930	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21702	193347.1532	586305.0520	634339.7851	1923569.1582	
RE21803	173+03.60	-75.00	634465.7182	1923820.2770	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21803	193371.7921	586339.9139	634420.6211	1923683.5341	
RE21906	173+14.70	50.00	634381.5810	1923727.1690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21906	193346.1488	586311.5365	634336.4899	1923590.4327	
RE21907	173+14.70	65.00	634372.5475	1923715.1940	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE21907	193343.3956	586307.8868	634327.4570	1923578.4585	
RP22601	173+92.11	-75.00	634395.0568	1923873.5820	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22601	193350.2560	586356.1601	634349.9647	1923736.8353	1
RP22602	174+28.28	-75.00	634366.1883	1923895.3590	MAGS	MAGNETIZED SURVEY NAIL	RP22602	193341.4574	586362.7973	634321.0983	1923758.6107	1
RP21905	174+34.70	50.00	634285.7826	1923799.4370	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21905	193316.9515	586333.5623	634240.6983	1923662.6956	1
RP21906	174+34.70	54.00	634283.3736	1923796.2430	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21906	193316.2173	586332.5888	634238.2895	1923659.5018	1
RP22101	174+57.00	-75.00	634343.2576	1923912.6580	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22101	193334.4686	586368.0696	634298.1692	1923775.9085	1
RP22103	175+20.00	-50.00	634277.9076	1923930.6400	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22103	193314.5513	586373.5502	634232.8239	1923793.8892	1
RP21903	175+44.27	54.00	634195.8982	1923862.2330	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21903	193289.5566	586352.7012	634150.8203	1923725.4871	1
RP22104	177+00.00	-50.00	634134.2099	1924039.0420	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22104	193270.7553	586406.5888	634089.1364	1923902.2835	1
RP22105	177+32.00	-75.00	634123.7195	1924078.2720	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22105	193267.5581	586418.5453	634078.6467	1923941.5107	1
RP22605	177+62.03	-75.00	634099.7474	1924096.3560	MAGS	MAGNETIZED SURVEY NAIL	RP22605	193260.2519	586424.0569	634054.6763	1923959.5935	1
RP22302	178+00.00	-75.00	634069.4337	1924119.2230	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22302	193251.0129	586431.0263	634024.3648	1923982.4588	
RP22303	178+02.22	-67.37	634063.0620	1924114.4680	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22303	193249.0709	586429.5771	634017.9935	1923977.7042	1
RP22304	178+13.00	-59.07	634049.4620	1924114.3300	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22304	193244.9259	586429.5350	634004.3945	1923977.5662	1
RP22305	178+65.00	-50.00	634002.4870	1924138.4110	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22305	193230.6089	586436.8744	633957.4228	1924001.6455	1
RP22306	179+56.72	-50.00	633929.2666	1924193.6460	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22306	193208.2929	586453.7089	633884.2076	1924056.8765	1
RP21901	179+58.38	54.00	633865.3037	1924111.6250	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP21901	193188.7984	586428.7106	633820.2493	1923974.8614	1
RP22401	180+60.00	54.00	633784.1823	1924172.8210	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22401	193164.0743	586447.3619	633739.1337	1924036.0530	1
RP22501	180+78.00	-50.00	633832.4447	1924266.6860	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22501	193178.7836	586475.9699	633787.3926	1924129.9113	1

FEDERAL PROJECT NO. E-100530

PID NO. 88407

CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

ERI-250-0.00

18/20
19/178
518/677

9/10/2014 3:36:05 PM
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ERI-250-0.00

CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET						PROPOSED RIGHT OF WAY MONUMENTS	STATE PLANE GRID COORDINATES - METERS					MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)							HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS					
CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					ITEM 623E40520 RIGHT OF WAY PIN (TYPE "B")
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	NORTH (US FT)	EAST (US FT)	
RP22502	181+00.00	-62.00	633822.1085	1924289.5150	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22502	193175.6334	586482.9277	633777.0572	1924152.7387	
RP22503	181+10.00	-77.00	633823.1588	1924307.5120	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22503	193175.9535	586488.4128	633778.1074	1924170.7344	
RP22402	181+12.00	84.00	633724.6027	1924180.1871	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22402	193145.9157	586449.6069	633679.5583	1924043.4186	1
RP22403	181+21.73	129.96	633689.1586	1924149.3519	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22403	193135.1130	586440.2090	633644.1167	1924012.5856	
RP22508	181+26.72	-77.00	633809.8124	1924317.5800	MAGS	MAGNETIZED SURVEY NAIL	RP22508	193171.8858	586491.4813	633764.7619	1924180.8017	1
RP22701	181+81.27	-77.00	633766.2640	1924350.4320	MAGS	MAGNETIZED SURVEY NAIL	RP22701	193158.6131	586501.4939	633721.2166	1924213.6514	1
RP22801	181+81.76	100.04	633659.2502	1924209.3980	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22801	193125.9976	586458.5098	633614.2104	1924072.6274	1
RP22802	181+85.76	100.04	633656.0539	1924211.8030	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22802	193125.0234	586459.2427	633611.0144	1924075.0322	
RP22803	181+85.79	82.04	633666.8759	1924226.1860	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22803	193128.3217	586463.6264	633621.8356	1924089.4142	
RP22702	182+00.00	-77.00	633751.3099	1924361.7130	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22702	193154.0554	586504.9322	633706.2636	1924224.9316	
RP22804	182+04.00	82.07	633652.3218	1924237.1360	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22804	193123.8860	586466.9637	633607.2825	1924100.3634	
RP22805	182+16.00	70.08	633649.9596	1924253.9310	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22805	193123.1660	586472.0825	633604.9205	1924117.1573	
RP22806	182+16.00	52.00	633660.8488	1924268.3660	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22806	193126.4848	586476.4820	633615.8089	1924131.5912	
RP22704	182+24.00	-56.00	633719.5033	1924359.4020	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22704	193144.3615	586504.2278	633674.4592	1924222.6208	1
RP22812	182+50.00	50.00	633634.9103	1924290.4381	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22812	193118.5793	586483.2091	633589.8723	1924153.6618	
RP22705	182+74.00	-50.00	633675.9739	1924384.7240	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22705	193131.0946	586511.9454	633630.9329	1924247.9410	1
RP22813	183+75.00	50.00	633535.1203	1924365.7172	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22813	193088.1654	586506.1526	633490.0894	1924228.9355	
RP22706	183+92.28	-50.00	633581.5501	1924455.9550	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP22706	193102.3162	586533.6551	633536.5159	1924319.1669	
RP23201	184+22.17	52.00	633496.2621	1924392.5260	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23201	193076.3223	586514.3233	633451.2339	1924255.7424	1
RP23001	184+92.28	-50.00	633501.7180	1924516.1780	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23001	193077.9851	586552.0098	633456.6894	1924379.3856	
RP23205	186+22.17	52.00	633336.5980	1924512.9720	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23205	193027.6600	586551.0327	633291.5812	1924376.1798	1
RP23102	186+80.00	-50.00	633351.8558	1924629.2300	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23102	193032.3103	586586.4657	633306.8379	1924492.4296	1
RP23103	186+92.39	-70.00	633354.0108	1924652.6570	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23103	193032.9670	586593.6058	633308.9927	1924515.8549	1
RP23601	187+42.39	-70.00	633314.0947	1924682.7690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23601	193020.8015	586602.7833	633269.0795	1924545.9648	1
RP23603	187+58.00	-54.16	633292.0902	1924679.5230	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23603	193014.0950	586601.7940	633247.0765	1924542.7190	1
RP23605	187+87.00	-50.00	633266.4355	1924693.6690	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23605	193006.2759	586606.1054	633221.4237	1924556.8640	1
RP23501	188+30.00	52.00	633170.6800	1924638.1370	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23501	192977.0917	586589.1804	633125.6750	1924501.3359	1
RP23502	188+30.00	70.00	633159.8398	1924623.7670	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23502	192973.7878	586584.8007	633114.8355	1924486.9670	1
RP23606	188+42.47	-50.00	633222.1501	1924727.0770	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23606	192992.7787	586616.2874	633177.1414	1924590.2696	1
RP23607	188+42.48	-60.00	633228.1644	1924735.0660	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23607	192994.6117	586618.7223	633183.1553	1924598.2581	
RP23503	188+58.26	75.01	633134.2640	1924636.7820	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23503	192965.9929	586588.7674	633089.2615	1924499.9810	1
RP23609	189+50.00	-60.00	633142.3316	1924799.8160	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23609	192968.4517	586638.4567	633097.3286	1924663.0035	1
RP23610	189+50.00	-52.00	633137.5137	1924793.4300	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23610	192966.9833	586636.5104	633092.5110	1924656.6179	1
RP23617	190+10.79	-52.00	633088.9840	1924830.0390	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23617	192952.1925	586647.6681	633043.9848	1924693.2243	1
RP23612	190+51.13	-52.00	633056.9019	1924854.3350	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23612	192942.4145	586655.0730	633011.9049	1924717.5186	1
RP23803	191+31.00	-52.00	632993.2295	1924902.5538	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23803	192923.0085	586669.7690	632948.2371	1924765.7339	
RP23804	191+31.00	-55.00	632995.0406	1924904.9454	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23804	192923.5605	586670.4980	632950.0480	1924768.1254	
RP23805	191+41.00	-55.00	632987.0686	1924910.9825	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23805	192921.1308	586672.3379	632942.0766	1924774.1620	
RP23806	191+41.00	-52.00	632985.2575	1924908.5909	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23806	192920.5788	586671.6090	632940.2656	1924771.7706	
RP23801	192+27.72	-52.00	632916.1209	1924960.9480	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23801	192899.5074	586687.5664	632871.1340	1924824.1240	1
RP23902	192+60.00	45.00	632831.8303	1924903.1047	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23902	192873.8174	586669.9369	632786.8493	1924766.2848	
RP23905	192+60.00	52.00	632827.6043	1924897.5243	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23905	192872.5294	586668.2362	632782.6236	1924760.7048	
RP23903	192+70.00	45.00	632823.8583	1924909.1418	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23903	192871.3877	586671.7769	632778.8779	1924772.3215	
RP23904	192+70.00	52.00	632819.6323	1924903.5614	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP23904	192870.0997	586670.0761	632774.6522	1924766.7415	
RE23901	193+45.55	45.00	632763.6296	1924954.7527	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE23901	192853.0313	586685.6782	632718.6535	1924817.9291	
RP24001	194+18.00	-52.00	632764.4351	1925075.8190	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24001	192853.2768	586722.5766	632719.4589	1924938.9868	1
RP24105	194+41.00	54.00	632682.1037	1925005.2020	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24105	192828.1839	586701.0541	632637.1334	1924868.3749	
RP24106	194+41.00	45.00	632687.5371	1925012.3770	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24106	192829.8399	586703.2408	632642.5664	1924875.5493	1
RP24002	194+72.00	-80.00	632738.2883	1925130.7420	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24002	192845.3078	586739.3160	632693.3140	1924993.9059	1
RP24003	194+84.26	-80.00	632728.5179	1925138.1420	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24003	192842.3300	586741.5714	632683.5443	1925001.3054	1
RP24108	195+29.00	74.00	632599.8758	1925042.3853	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24108	192803.1226	586712.3867	632554.9113	1924905.5555	1
RP24107	195+28.00	54.00	632612.7473	1925057.7256	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24107	192807.0455	586717.0621	632567.7819	1924920.8947	1
RP24501	195+39.24	-80.00	632684.6835	1925171.3370	MAGS	MAGNETIZED SURVEY NAIL	RP24501	192828.9702	586751.6885	632639.7130	1925034.4980	1
RP24509	195+39.55	-210.00	632762.9198	1925275.1598	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24509	192852.8150	586783.3315	632717.9437	1925138.3135	1

FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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CITY OF SANDUSKY
PERKINS TOWNSHIP
ERIE COUNTY

PROJECT ADJ. FACTOR = 3.2810665478 (Metric Grid to Project Ground Feet)
ENG./METRIC CONV.= 3.2808333333 US SURVEY FOOT CONVERSION FACTOR

PROJECT GROUND COORDINATES - US SURVEY FEET						PROPOSED RIGHT OF WAY MONUMENTS	STATE PLANE GRID COORDINATES - METERS					MONUMENTS TO BE RESET AFTER CONSTRUCTION
PROJECT COORDINATES (FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS)							HORIZONTAL DATUM - NAD83(1995), OHIO NORTH ZONE (3401) FROM CORS					ITEM 623E40520
CENTERLINE R/W SR 250		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT					VERTICAL DATUM - NAVD88 (GPS DERIVED FROM CORS)					RIGHT OF WAY PIN (TYPE "B")
NAME	STATION	OFFSET(ft)	NORTH(ft)	EAST(ft)	FEATURE	DESCRIPTION	NAME	NORTH(m)	EAST(m)	NORTH (US FT)	EAST (US FT)	
RP24510	195+47.00	-142.00	632715.9287	1925225.4474	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24510	192838.4931	586768.1802	632670.9560	1925088.6046	1
RP24109	195+52.00	74.00	632581.5402	1925056.2708	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24109	192797.5343	586716.6188	632536.5770	1924919.4400	1
RP24502	195+72.00	-80.00	632658.5683	1925191.1139	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24502	192821.0108	586757.7161	632613.5997	1925054.2735	1
RP24111	195+79.87	171.31	632500.5733	1924995.5180	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24111	192772.8573	586698.1026	632455.6159	1924858.6915	1
RP24110	195+80.06	137.84	632520.6268	1925022.3150	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24110	192778.9692	586706.2697	632475.6680	1924885.4866	1
RP24401	196+05.58	217.57	632452.1458	1924974.1640	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24401	192758.0976	586691.5943	632407.1918	1924837.3391	1
RP24503	196+18.00	-60.00	632609.8228	1925202.9410	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24503	192806.1542	586761.3207	632564.8576	1925066.0998	
RP24601	196+45.94	153.27	632458.7970	1925049.7930	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24601	192760.1247	586714.6445	632413.8426	1924912.9627	1
RP24301	196+46.40	63.27	632512.7626	1925121.8190	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24301	192776.5723	586736.5965	632467.8043	1924984.9836	1
RP24606	196+72.59	209.25	632403.7548	1925021.2560	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24606	192743.3490	586705.9470	632358.8043	1924884.4277	1
RP24404	196+73.78	284.51	632357.3712	1924961.9730	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24404	192729.2123	586687.8788	632312.4240	1924825.1489	1
RP24403	196+86.64	379.53	632289.7569	1924893.9870	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24403	192708.6049	586667.1581	632244.8145	1924757.1678	1
RP24202	197+36.64	379.62	632249.8370	1924924.1010	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24202	192696.4381	586676.3362	632204.8974	1924787.2796	
RP24201	197+37.23	276.72	632311.4869	1925006.4860	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24201	192715.2277	586701.4454	632266.5429	1924869.6588	1
RP24602	197+37.32	261.72	632320.4744	1925018.4970	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24602	192717.9669	586705.1061	632275.5298	1924881.6689	1
RP24603	197+37.73	189.73	632363.6117	1925076.1430	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24603	192731.1143	586722.6754	632318.6640	1924939.3108	
RP24504	197+60.33	-60.00	632496.3573	1925288.8680	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24504	192771.5723	586787.5095	632451.4002	1925152.0207	
RP24605	197+65.58	202.16	632333.9012	1925083.0490	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24605	192722.0591	586724.7802	632288.9556	1924946.2163	1
RP24604	197+93.77	191.42	632317.9157	1925108.6250	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24604	192717.1871	586732.5752	632272.9713	1924971.7905	
RP24702	198+61.18	-62.51	632417.4745	1925351.7560	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24702	192747.5305	586806.6764	632372.5230	1925214.9042	
RP24701	198+61.18	℄	632379.7339	1925301.9230	MAGS	MAGNETIZED SURVEY NAIL	RP24701	192736.0280	586791.4884	632334.7851	1925165.0748	1
RE24701	200+48.39	-70.00	632272.7530	1925470.7460	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE24701	192703.4224	586842.9421	632227.8118	1925333.8858	
RP24901	213+70.20	-75.00	631222.0220	1926272.7310	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24901	192383.1818	587087.3702	631177.1555	1926135.8138	1
RP25001	214+14.62	75.00	631096.0577	1926179.9650	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP25001	192344.7905	587059.0971	631051.2001	1926043.0544	1
RP24902	214+90.00	-66.02	631121.0962	1926337.8920	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP24902	192352.4217	587107.2299	631076.2368	1926200.9701	
RE25002	214+90.00	℄	631081.2417	1926285.2641	MAGS	MAGNETIZED SURVEY NAIL	RE25002	192340.2749	587091.1900	631036.3852	1926148.3460	
RP25002	215+66.90	60.00	630983.7159	1926283.8570	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP25002	192310.5511	587090.7612	630938.8663	1926146.9390	
RE25103	216+20.00	℄	630977.6057	1926363.7471	MAGS	MAGNETIZED SURVEY NAIL	RE25103	192308.6888	587115.1100	630932.7565	1926226.8234	1
RP25101	216+20.00	60.00	630941.3828	1926315.9150	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP25101	192297.6488	587100.5318	630896.5362	1926178.9947	1
RP26701	227+09.41	-61.71	630121.2355	1927049.9040	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26701	192047.6852	587324.2362	630076.4472	1926912.9315	1
RP28401	228+82.37	-66.60	629965.8649	1927134.4390	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28401	192000.3315	587350.0007	629921.0877	1926997.4605	
C.L. BOGART ROAD		PLAN ERI-250-0.00, 1.14, 8.763 USED FOR ALIGNMENT										
RE27704	21+24.95	25.00	630017.7351	1926296.1331	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RE27704	192016.1405	587094.5027	629972.9542	1926159.2142	
RP27701	22+25.00	25.00	630015.8417	1926396.1686	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP27701	192015.5634	587124.9914	629971.0609	1926259.2426	
RP27702	22+25.00	38.00	630002.8440	1926395.9226	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP27702	192011.6020	587124.9164	629958.0641	1926258.9966	
RP27703	22+87.97	38.00	630001.6524	1926458.8800	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP27703	192011.2388	587144.1045	629956.8726	1926321.9495	
RP27901	23+94.29	25.00	630012.6381	1926565.4290	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP27901	192014.5870	587176.5784	629967.8575	1926428.4910	1
RP28002	23+96.10	42.04	629995.5621	1926566.9180	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28002	192009.3826	587177.0322	629950.7827	1926429.9798	
RP28001	25+03.41	41.79	629993.7814	1926674.2070	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28001	192008.8399	587209.7316	629949.0022	1926537.2612	
RP28402	29+59.34	50.49	630008.4782	1927138.0330	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28402	192013.3192	587351.0960	629963.6979	1927001.0543	
RP26703	29+75.00	-50.00	630110.1454	1927135.4010	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26703	192044.3052	587350.2939	630065.3579	1926998.4224	
RP26705	30+50.00	-50.00	630123.6047	1927209.1830	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26705	192048.4073	587372.7811	630078.8162	1927072.1992	
RP28406	30+50.33	50.18	630025.1120	1927227.4800	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28406	192018.3888	587378.3576	629980.3305	1927090.4949	
RP28403	31+48.44	70.00	630023.2179	1927327.5560	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28403	192017.8115	587408.8587	629978.4366	1927190.5638	
RP26706	31+65.00	-75.00	630168.8364	1927317.8300	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26706	192062.1930	587405.8944	630124.0447	1927180.8385	
RP28405	32+21.62	70.00	630036.3510	1927399.5510	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28405	192021.8142	587430.8012	629991.5687	1927262.5537	
RP28502	32+50.00	70.00	630041.4442	1927427.4710	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28502	192023.3665	587439.3106	629996.6616	1927290.4717	
RP26708	32+52.46	-75.00	630184.5324	1927403.8740	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26708	192066.9768	587432.1188	630139.7396	1927266.8764	
RP26801	32+65.00	-75.00	630186.7821	1927416.2060	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26801	192067.6624	587435.8773	630141.9892	1927279.2075	
RP26802	33+16.00	-56.00	630177.2428	1927469.7880	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26802	192064.7551	587452.2080	630132.4505	1927332.7857	
RP28505	33+59.24	48.15	630082.5395	1927531.0120	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28505	192035.8915	587470.8678	630037.7540	1927394.0053	
RP26803	33+65.00	-47.00	630177.1823	1927519.6080	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26803	192064.7366	587467.3921	630132.3900	1927382.6021	
RP26804	34+19.89	-47.00	630187.0332	1927573.6100	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP26804	192067.7390	587483.8507	630142.2402	1927436.6003	
RP28601	34+50.00	30.00	630116.6862	1927617.0460	IPINS	3/4" x 30" REBAR WITH A 2" ALUMINUM CAP MARKED "ODOT R/W - Poggemeyer Design Group PS 7931"	RP28601	192046.2987	587497.0891	630071.8982	1927480.0332	
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FEDERAL PROJECT NO. E-100530
PID NO. 88407
CALCULATED JJ CHECKED KCD

CENTERLINE PLAT
MONUMENT TABLE

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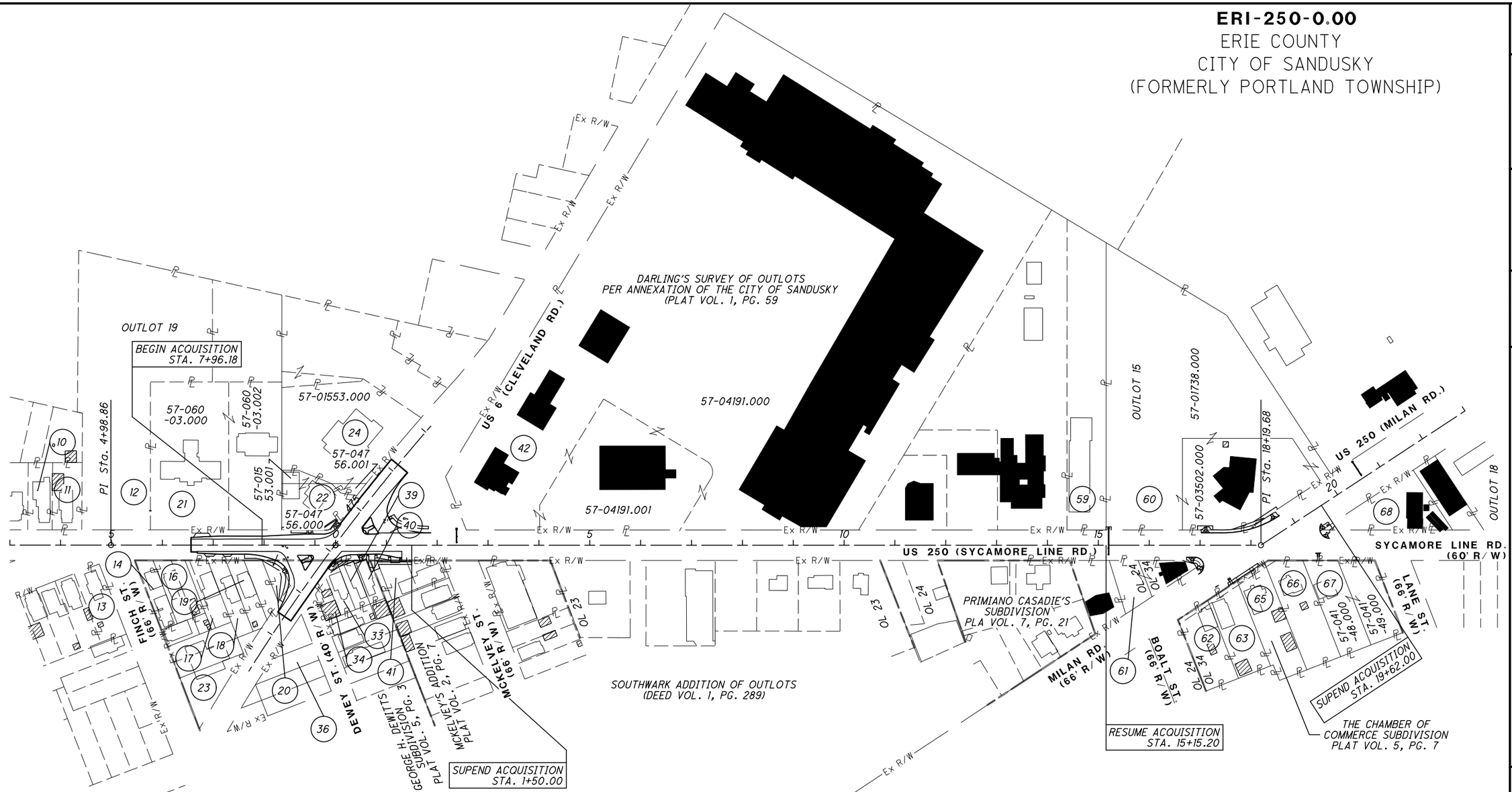
ERIE COUNTY
CITY OF SANDUSKY
(FORMERLY PORTLAND TOWNSHIP)



PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
10	TREEIE L RHODE & THOMAS C RHODE SR.	57-01426.000
11	JOHN D & EDDA MARIE KAISER	57-02366.000
12	STEIN HOSPICE SERVICE INC	57-68040.000
13	NYLE W OLDS JR	54-04141.000
14	MARDELLA A MARQUART	57-02976.000
16	LAVONE A WYNN TRUSTEE	57-04549.000
17	SCOTT NORTON	57-02712.000
18	ANDREW D THOM	57-02826.000
19	DONALD YOST SR	57-05385.000
20	THE CITY OF SANDUSKY, OHIO	NA
21	S & S REALITY LTD	57-06003.000
		57-06003.002
22	NIEHM BROS., LLC, AN OHIO LIMITED LIABILITY COMPANY,	57-04756.000
	FNA NIEHM BROS. PARTNERSHIP, AN OHIO GENERAL PARTNERSHIP	57-01553.001
	CONSISTING OF JAMES B. NIEHM AND RICHARD S. NIEHM	
24	JEAN-PIERRE & ANNE D VANRAEPENBUSCH TRUSTEES	57-01553.000
		57-04756.001

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
33	FRANK M KENSKI	57-02454.000
34	LETA BUSH	57-00627.000
35-38	NOT USED	
39	CAROL VOGLER-BRIGHT	57-02765.000
40	R-C SMITH & ASSOCIATES, LTD,	57-04557.000
	AN OHIO LIMITED LIABILITY COMPANY	
41	MIOU FU LIU AKA FU M LIU	57-04619.000
42	S & S REALTY LTD	57-04191.000
		57-04191.001
59	GRADY MCDONALD	57-05681.000
60	BBD PROFESSIONAL PROPERTY MANAGEMENT, LLC	57-01738.000
	(AN OHIO LIMITED LIABILTY COMPANY)	57-03502.000
61	4 POINTS BAR, LLC AN OHIO LIMITED	57-04640.00
	LIABILITY COMPANY	
62	JASON J ROTH & JAMIE L FITZHUM	57-01571.000
63	ROBERT W & BERNICE BILLMAN	57-00350.000
65	TIMOTHY M & SHENELL A HINTON	57-04906.000

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
67	LOUIS A & THELMA L BONI	57-04148.000
		57-04149.000
66	LISA A SEWARD	57-03061.000
68	SANDRA L MAGI	57-04995.000

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	4/18/14	ADJUST RESUME ACQ. FLAG STA. 15+15.20
JJ	2/12/14	PAR. 40; REVISED NEW OWNERSHIP
JJ	11/14/13	PAR. 22; ADDED AUDITOR'S PARCEL

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET: 0, 50, 100, 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 4+00 TO STA. 21+50

ERI-250-0.00

1 / 10
22 / 178
521 / 677

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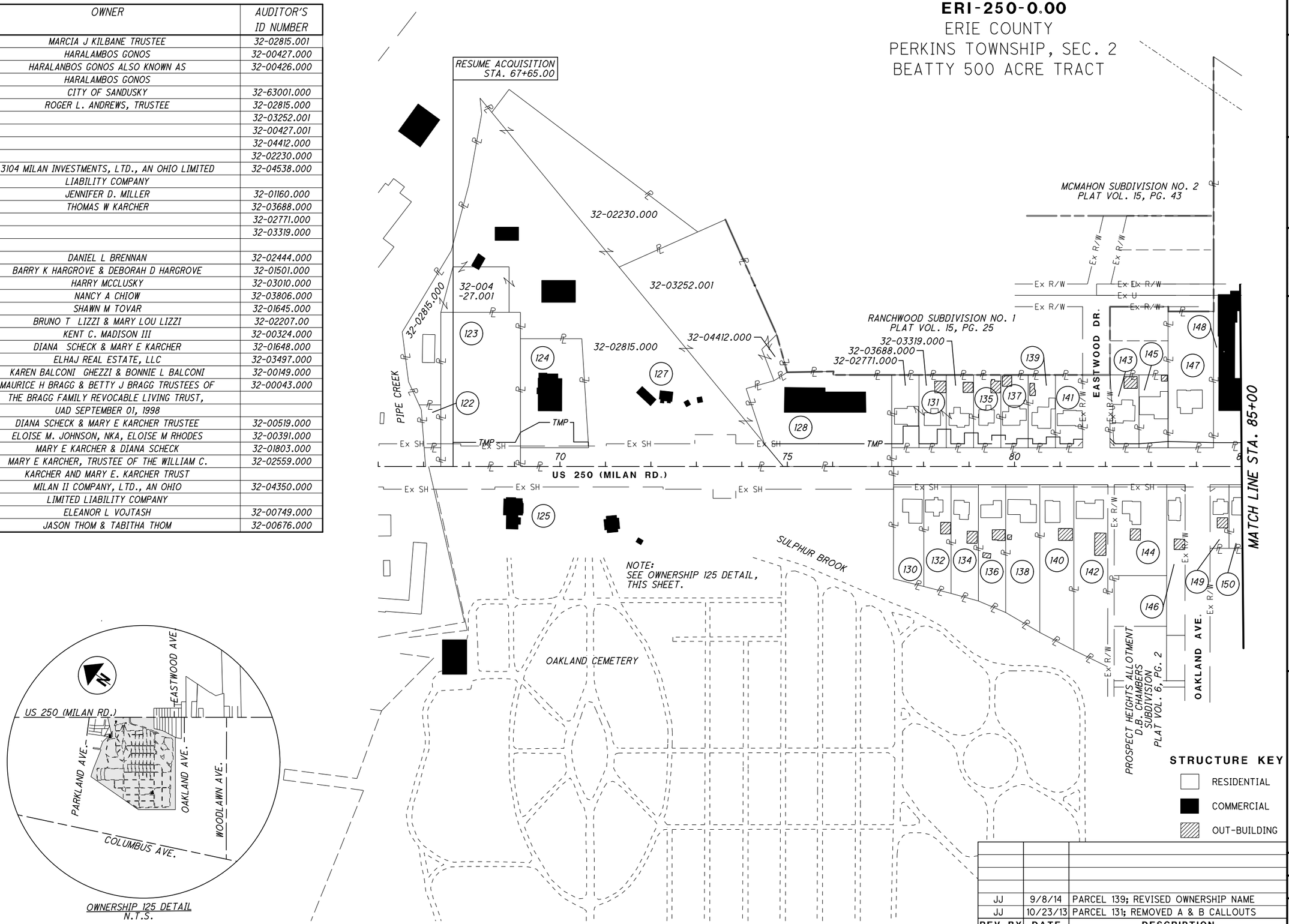
PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
122	MARCIA J KILBANE TRUSTEE	32-02815.001
123	HARALAMBOS GONOS	32-00427.000
124	HARALANBOS GONOS ALSO KNOWN AS	32-00426.000
	HARALAMBOS GONOS	
125	CITY OF SANDUSKY	32-63001.000
127	ROGER L. ANDREWS, TRUSTEE	32-02815.000
		32-03252.001
		32-00427.001
		32-04412.000
		32-02230.000
128	3104 MILAN INVESTMENTS, LTD., AN OHIO LIMITED	32-04538.000
	LIABILITY COMPANY	
130	JENNIFER D. MILLER	32-01160.000
131	THOMAS W KARCHER	32-03688.000
		32-02771.000
		32-03319.000
132	DANIEL L BRENNAN	32-02444.000
134	BARRY K HARGROVE & DEBORAH D HARGROVE	32-01501.000
135	HARRY MCCLUSKY	32-03010.000
136	NANCY A CHIOW	32-03806.000
137	SHAWN M TOVAR	32-01645.000
138	BRUNO T LIZZI & MARY LOU LIZZI	32-02207.00
139	KENT C. MADISON III	32-00324.000
140	DIANA SCHECK & MARY E KARCHER	32-01648.000
141	ELHAJ REAL ESTATE, LLC	32-03497.000
142	KAREN BALCONI GHEZZI & BONNIE L BALCONI	32-00149.000
143	MAURICE H BRAGG & BETTY J BRAGG TRUSTEES OF	32-00043.000
	THE BRAGG FAMILY REVOCABLE LIVING TRUST,	
	UAD SEPTEMBER 01, 1998	
144	DIANA SCHECK & MARY E KARCHER TRUSTEE	32-00519.000
145	ELOISE M. JOHNSON, NKA, ELOISE M RHODES	32-00391.000
146	MARY E KARCHER & DIANA SCHECK	32-01803.000
147	MARY E KARCHER, TRUSTEE OF THE WILLIAM C.	32-02559.000
	KARCHER AND MARY E. KARCHER TRUST	
148	MILAN II COMPANY, LTD., AN OHIO	32-04350.000
	LIMITED LIABILITY COMPANY	
149	ELEANOR L VOJTASH	32-00749.000
150	JASON THOM & TABITHA THOM	32-00676.000

ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
BEATTY 500 ACRE TRACT



OWNERSHIP 125 DETAIL
N.T.S.

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PARCEL 139; REVISED OWNERSHIP NAME
JJ	10/23/13	PARCEL 131; REMOVED A & B CALLOUTS

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 66+00 TO STA. 85+00

ERI-250-0.00

2 / 10
23 / 178
522 / 677

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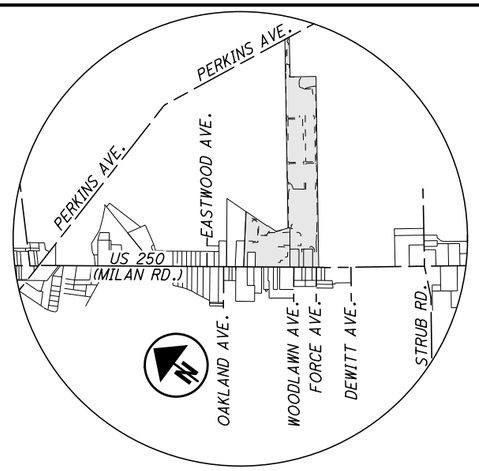
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOT 39&40

MATCH LINE STA. 85+00

SELHAN SUBDIVISION NO.1
PLAT VOL. 16, PG. 40
REVISED DV 21, PG. 5

NOTE:
SEE OWNERSHIP 154 DETAIL,
THIS SHEET.



OWNERSHIP 154 DETAIL
N.T.S.

RUM RD.

LAKE CREST PARKWAY

MASSEY BOULEVARD

STRUB RD.

LOT 40
LOT 41

SUPEND ACQUISITION
STA. 100+33.45

LAKECREST TOWN CENTER
SUBDIVISION
PLAT VOL. 48, PG. 85

FORCE AVE.

DEWITT AVE.

PC Sta. 97+12.09

PT Sta. 99+44.58

LOT 39

LOT 40

32-04634.000

32-00724.000

32-04632.500

32-00725.000

32-03676.000

32-03676.000

US 250 (MILAN RD.)

WOODLAWN AVE.

STURZINGER ALLOTMENT
PLAT VOL. 6, PG. 63

DEWITT SUBDIVISION
PLAT VOL. 4, PG. 10

TREGESSER SUBDIVISION
PLAT VOL. 6, PG. 7

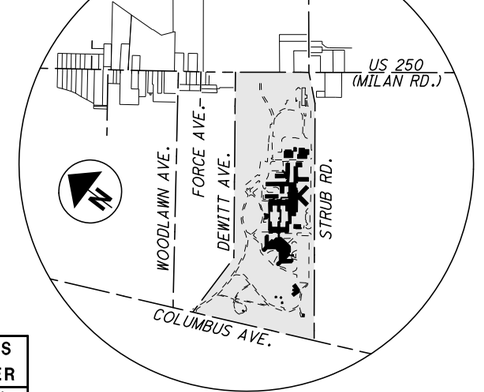
BOSLOW SUBDIVISION
PLAT VOL. 4, PG. 17

HALLAM TRACT LOT 39
BEATTY 500 ACRE TRACT

PROSPECT HEIGHTS ALLOTMENT
D.B. CHAMBERS SUBDIVISION
PLAT VOL. 6, PG. 2

LOT 1
NOVEMBER SUBDIVISION
PLAT VOL. 21, PG. 69

NOTE:
SEE OWNERSHIP 177 DETAIL,
THIS SHEET.



OWNERSHIP 177 DETAIL
N.T.S.

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
148	MILAN II COMPANY, LTD., AN OHIO	32-04350.000
	LIMITED LIABILITY COMPANY	
150	JASON THOM & TABITHA THOM	32-00676.000
151	MATTHEW R MAPUS	32-02617.000
152	S & S REALITY LTD., AN OHIO	32-03737.000
	LIMITED LIABILITY COMPANY	
153	ANDREW K TAM & FLORENCE Y TAM	32-04351.000
154	CORSO REALTY, INC., AN OHIO CORPORATION	32-04634.000
		32-00724.000
		32-04632.500
		32-00725.000
155	ROBERT H ROUTH & SALLY E ROUTH	32-00969.000
156	THOMAS E COSGROVE	32-01990.000
157	AUGUST J CORSO AND LINDA C CORSO	32-00731.000
158	JASON C MING & JANICE H MING	32-01248.000
159	SANDUSKY SKATE WORLD PROPERTIES LLC, A	32-03062.000
	LIMITED LIABILITY COMPANY	
160	O ICE LLC	32-03676.000

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
161	KAKIKA ENTERPRISES, LTD., AN OHIO	32-04811.000
	LIMITED LIABILITY COMPANY	
162	250 CENTRE, LTD., AN OHIO LIMITED	32-04809.000
	LIABILITY COMPANY	32-04809.002
163	REALITY INCOME CORPORATION, A MARYLAND	32-00790.000
	CORPORTATION	
167	JAMES A JUSTI & FATIMA B.O. JUSTI	32-01802.000
168	RALPH D BULLION	32-00518.000
169	ANDREW BARISCH	32-02168.000
170	LISA KROMER	32-02035.000
171	DR RICK MCKINNEY & SHEILA MCKINNEY	32-02327.000
172	CRAIG A OLEMACHER & MARY H REAGAN-OHLEMACHER	32-00382.000
174	PRO CLEAN LASERWASH LTD	32-03444.000
175	SANDBORO LIMITED PARTNERSHIP, AN	32-03356.009
	OHIO LIMITED PARTNERSHIP	
176	MAPLE CITY BUILDERS LLC	32-03356.010
177	STATE OF OHIO AKA STATE OF OHIO SOLDIERS	32-61002.000
	AND SAILORS HOME AKA STATE OF	
	OHIO VETERANS HOME	
400	UNKNOWN OWNER	
401	UNKNOWN OWNER	

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 85+00 TO STA. 107+00

ERI-250-0.00

3 / 10
24 / 178
523 / 677

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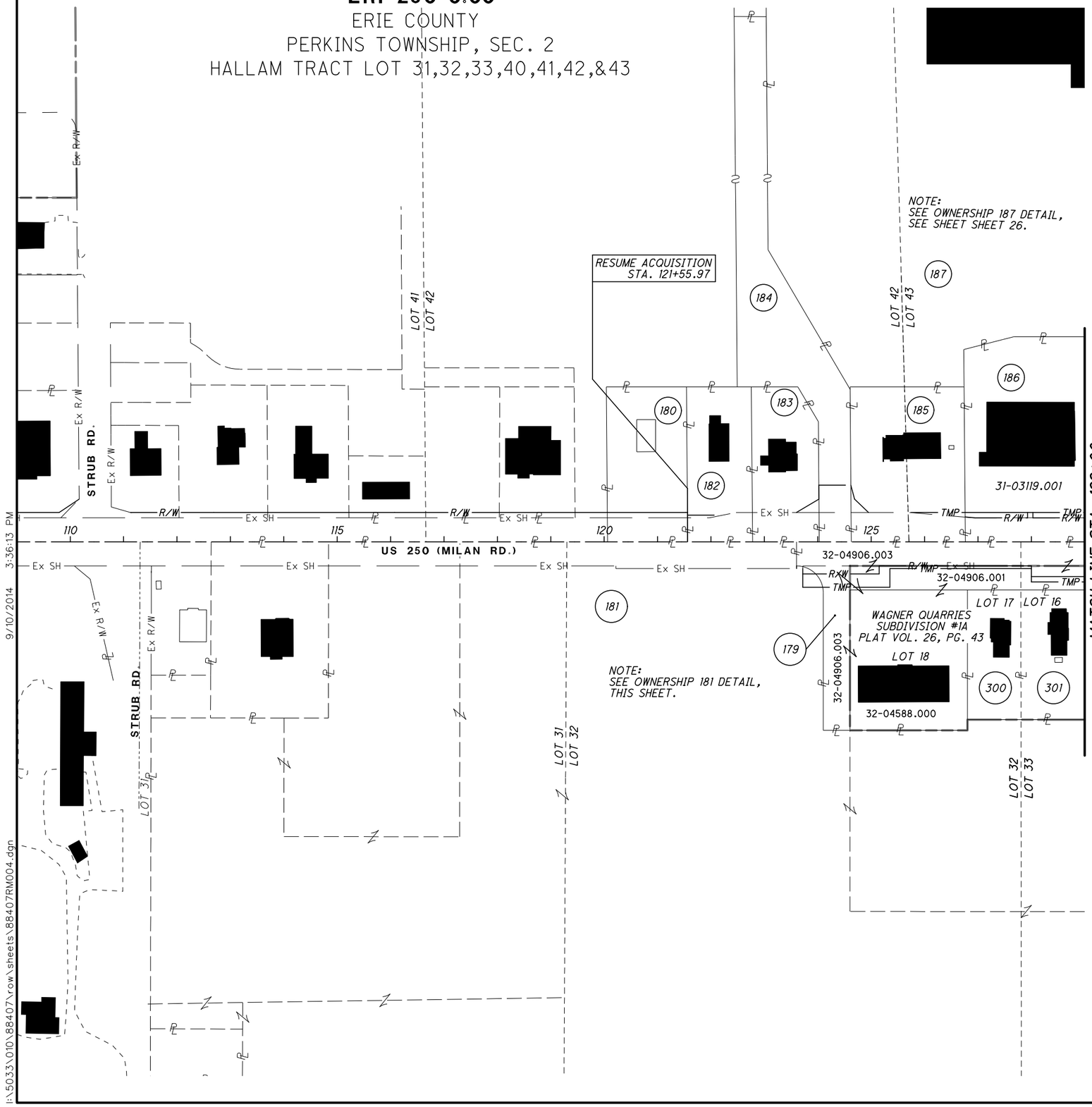
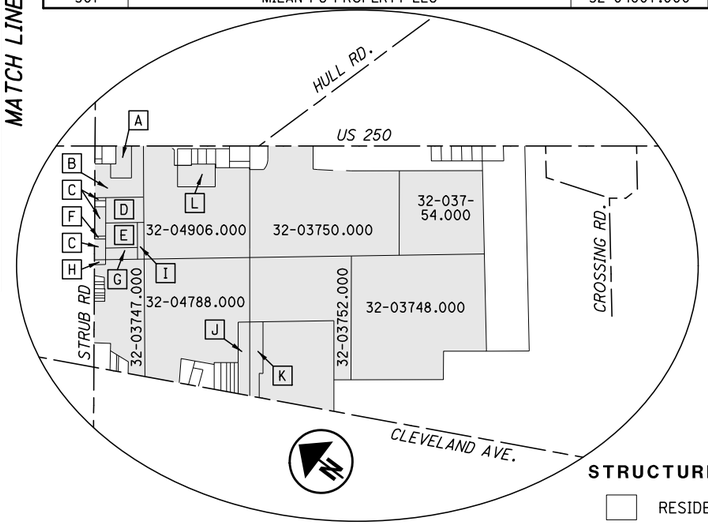
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 31,32,33,40,41,42,&43



PARCEL NO.	OWNER	AUDITOR'S ID NUMBER	DETAIL ID
179	PERKINS LAND INVESTMENTS, LTD., ON OHIO	32-04906.003	
	LIMITED LIABILITY COMPANY	32-04906.001	
		32-04588.000	
180	HOTY 250 TARGET LTD	32-01235.000	
181	THE WAGNER QUARRIES COMPANY, AN OHIO	32-03745.000	A
	CORPORATION, NOW KNOWN AS	32-03755.000	B
	HANSON AGGREGATES MIDWEST, INC.,	32-03740.000	C
	A KENTUCKY CORPORATION	32-03741.000	D
		32-03742.000	E
		32-03753.000	F
		32-03743.000	G
		32-03746.000	H
		32-03744.000	I
		32-03758.000	J
		32-03747.000	K
		32-04740.000	L
		32-03757.000	
		32-04788.000	
		32-04906.000	
		32-03750.000	
		32-03752.000	
		32-03751.000	
		32-03754.000	
		32-03748.000	
182	ARC CAFEHLD001 LLC A DELAWARE	32-00515.000	
	LIMITED LIABILITY COMPANY		
183	THE INDUSTRIAL SAVINGS AND LOAN ASSOCIATION	32-00453.000	
184	SANDUSKY DEVELOPMENT CO.,	32-03102.000	
	A LIMITED PARTNERSHIP		
185	SUEMAR REALTY, INC. AN OHIO CORPORATION	32-00262.000	
186	SANDUSKY MALL OUTPARCELS LLC	32-03119.001	
		32-03119.002	
187	SANDUSKY MALL COMPANY,	32-03119.000	
	A LIMITED PARTNERSHIP		
300	HOW COL HOLDINGS LLC	32-04742.000	
301	MILAN PC PROPERTY LLC	32-04907.000	



OWNERSHIP 181 DETAIL
N.T.S.

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	5/22/14	PAR. 182; NEW OWNERSHIP NAME
JJ	4/18/14	PAR. 186; UPDATED R/W TAKE
KCD	10/23/13	PAR. 179, ADD AUD. No. 32-04906.001

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 109+00 TO STA. 129+00

ERI-250-0.00

4 / 10
25 / 178
524 / 677

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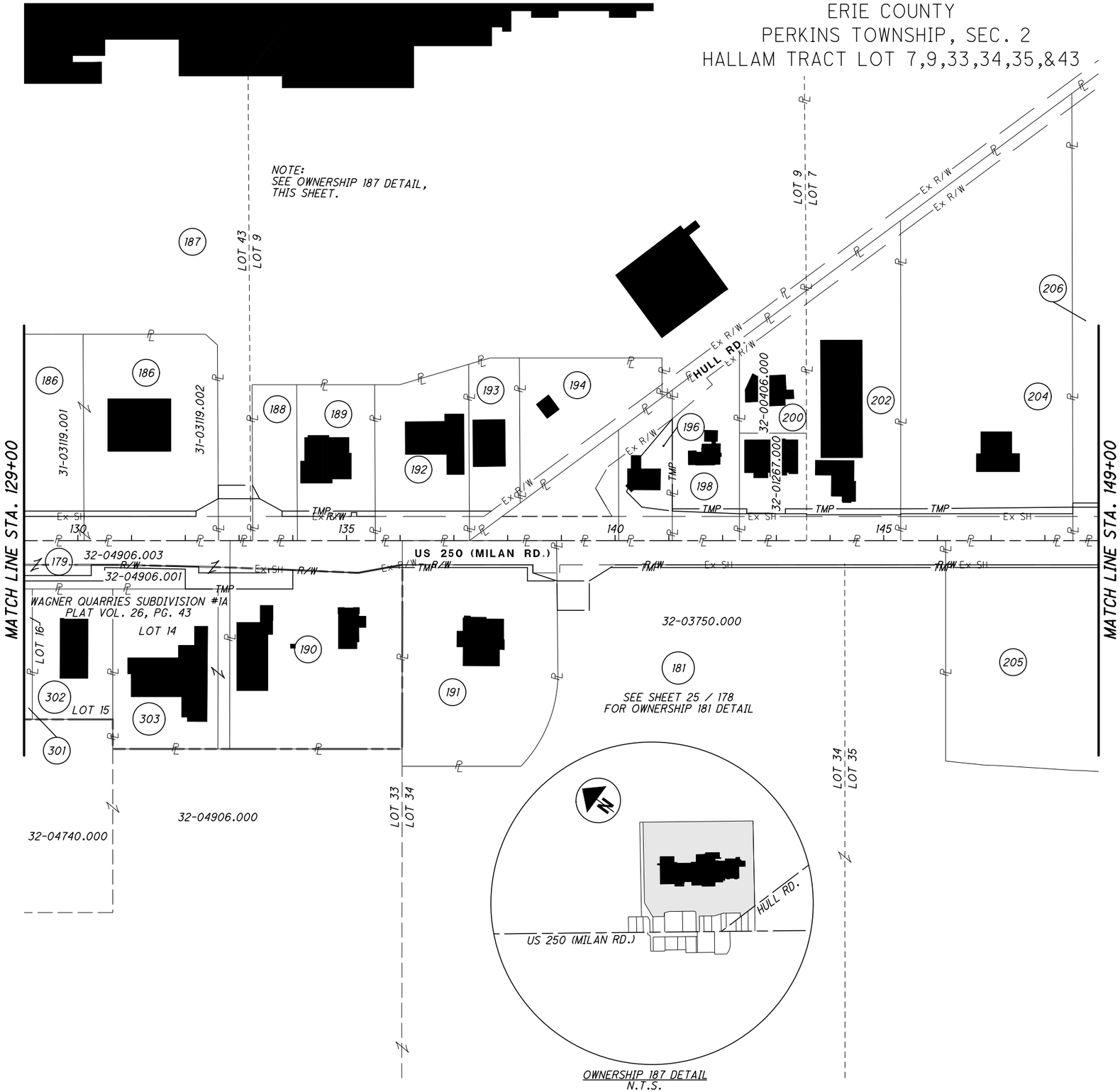
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 7,9,33,34,35,&43



PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
179	PERKINS LAND INVESTMENTS, LTD., ON OHIO	32-04906.003
	LIMITED LIABILITY COMPANY	32-04906.001
		32-04588.000
181	THE WAGNER QUARRIES COMPANY, AN OHIO	32-04906.000
	CORPORATION, NOW KNOWN AS	32-03755.000
	HANSON AGGREGATES MIDWEST, INC.,	32-03745.000
	A KENTUCKY CORPORATION	32-3740.000
		32-03741.000
		32-3742.000
		32-03753.000
		32-03746.000
		32-04743.000
		32-03744.000
		32-03747.000
		32-04788.000
		32-03758.000
		32-03750.000
		32-03750.000
		32-03752.000
		32-03757.000
		32-03751.000
		32-03754.000
		32-03748.000
186	SANDUSKY MALL OUTPARCELS LLC	32-03119.002
187	SANDUSKY MALL COMPANY,	32-03119.000
	A LIMITED PARTNERSHIP	
188	SANDUSKY DEVELOPMENT CO.,	32-04780.000
	A LIMITED PARTNERSHIP	
189	SCHUSTER BUILDINGS, LLC,	32-04782.000
	AN OHIO LIMITED LIABILITY COMPANY	
190	HOTY MALL PROPERTIES, LTD., AN OHIO	32-00553.000
	LIMITED LIABILITY COMPANY	
191	WAGNER DEVELOPMENT, LLC,AN OHIO LIMITED	32-03750.001
	LIABILITY COMPANY	
192	BFS RETAIL & COMMERCIAL OPERATIONS, LLC, A	32-04782.000
	DELAWARE LIMITED LIABILITY COMPANY	
193	SAGRAN LLC, A DELAWARE LIMITED LIABILITY	32-04301.000
	COMPANY	
194	SANDUSKY DEVELPOMENT CO	32-04299.000
196	ERIE COMMUNITY FEDERAL CREDIT UNION	32-01886.000
		32-01885.000
198	SHARON LYNN MICHAEL & ANITA JOANNE CANTELLI	32-00421.000
200	JEWELONE DEVELOPMENT, LLC, AN OHIO	32-01267.000
	LIMITED LIABILITY COMPANY	
202	D & R, LTD., AN OHIO LIMITED LIABILITY COMPANY	32-03073.000
204	BOARD OF TRUSTEES PERKINS TOWNSHIP,	32-63011.000
	ERIE COUNTY, OHIO	
205	WAGNER DEVELOPMENT, LLC, AN OHIO	32-03750.002
	LIMITED LIABILITY COMPANY	
206	CNL INCOME GW SANDUSKY, LP, A DELAWARE	32-02753.000
	LIMITED PARTNERSHIP	
301	MILAN PC PROPERTY LLC	32-04907.000
302	MONROEMUFFLER BRAKE INC	32-04906.002
303	MATHEWSON BRAD & JILL	32-04885.000

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	4/18/14	PAR 189; REVISED R/W TAKE
JJ	10/23/13	ADDED ID AND AUD. NOS. FOR PAR. 179

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 129+00 TO STA. 149+00

ERI-250-0.00

5 / 10
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525 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 3,5,6,7,35,&36

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
205	WAGNER DEVELOPMENT, LLC, AN OHIO	32-03750.002
	LIMITED LIABILITY COMPANY	
206	CNL INCOME GW SANDUSKY, LP, A DELAWARE	32-02753.000
	LIMITED PARTNERSHIP	32-00844.096
207	HOWARD I GROSS & KATHY J GROSS	32-00844.093
208	MEIJER STORES LIMITED PARTNERSHIP, A	32-00844.089
	MICHIGAN LIMITED PARTNERSHIP	
209	SCHUSTER VENTURES, L.L.C., AN OHIO	32-00844.095
	LIMITED LIABILITY COMPANY	
210	HOTY MD LTD, AN OHIO LIMITED LIABILITY COMPANY	32-01005.000
211	MUZILLA PROPERTIES, LLC, AN OHIO LIMITED	32-01208.000
	LIABILITY COMPANY	
212	4902 MILAN INVESTMENTS LTD	32-00844.097
		32-04312.000
		32-03494.004
214	PLI, II, LTD., (AKA PLI, II) AN OHIO	32-03935.000
	LIMITED LIABILITY COMPANY	32-00785.000
218	UNITED MOTOR SALES, LLC, AN OHIO	32-03494.005
	LIMITED LIABILITY COMPANY	

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 149+00 TO STA. 169+00

ERI-250-0.00

MATCH LINE STA. 149+00

MATCH LINE STA. 169+00

Ex R/W
Ex R/W
HULL RD. 40' R/W

32-00844.096

LOT 7
LOT 5

LOT 5
LOT 3

LOT 35
LOT 36

LOT 36
LOT 6

206 207 208 209 210 211 212 214 218 205

NOTE:
SEE OWNERSHIP 208 DETAIL,
THIS SHEET.

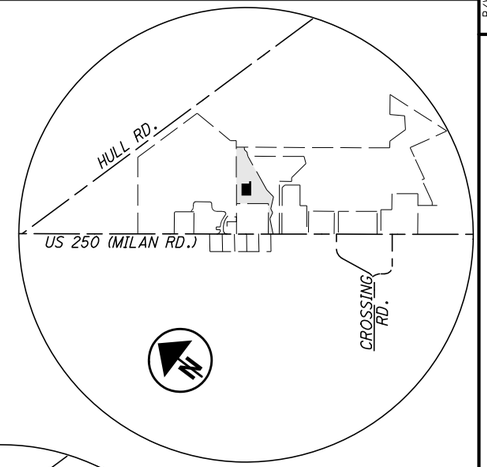
NOTE:
SEE OWNERSHIP 218 DETAIL,
THIS SHEET.

US 250 (MILAN RD.)

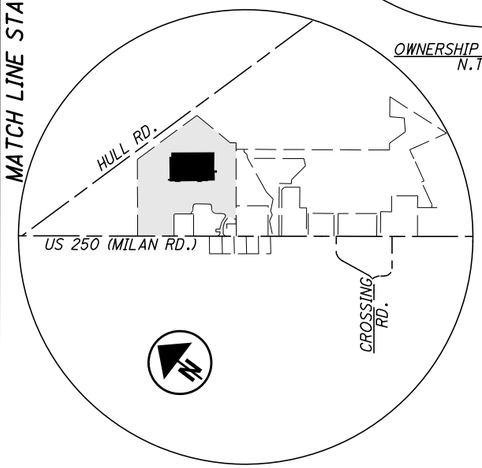
TMP R/W Ex SH

150 155 160 165

32-03935.000
32-00785.000



OWNERSHIP 218 DETAIL
N.T.S.



OWNERSHIP 208 DETAIL
N.T.S.

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	4/29/14	PAR. 211 & 214; REVISED TAKES
DAP	4/29/14	PARCEL 214; OWNERSHIP UPDATE
JJ	4/18/14	PAR. 208; REVISED R/W TAKE
JJ	10/23/13	PARCEL 214; CORRECTED OWNER NAME

DATE COMPLETED 9/12/13

6 / 10
27 / 178
526 / 677

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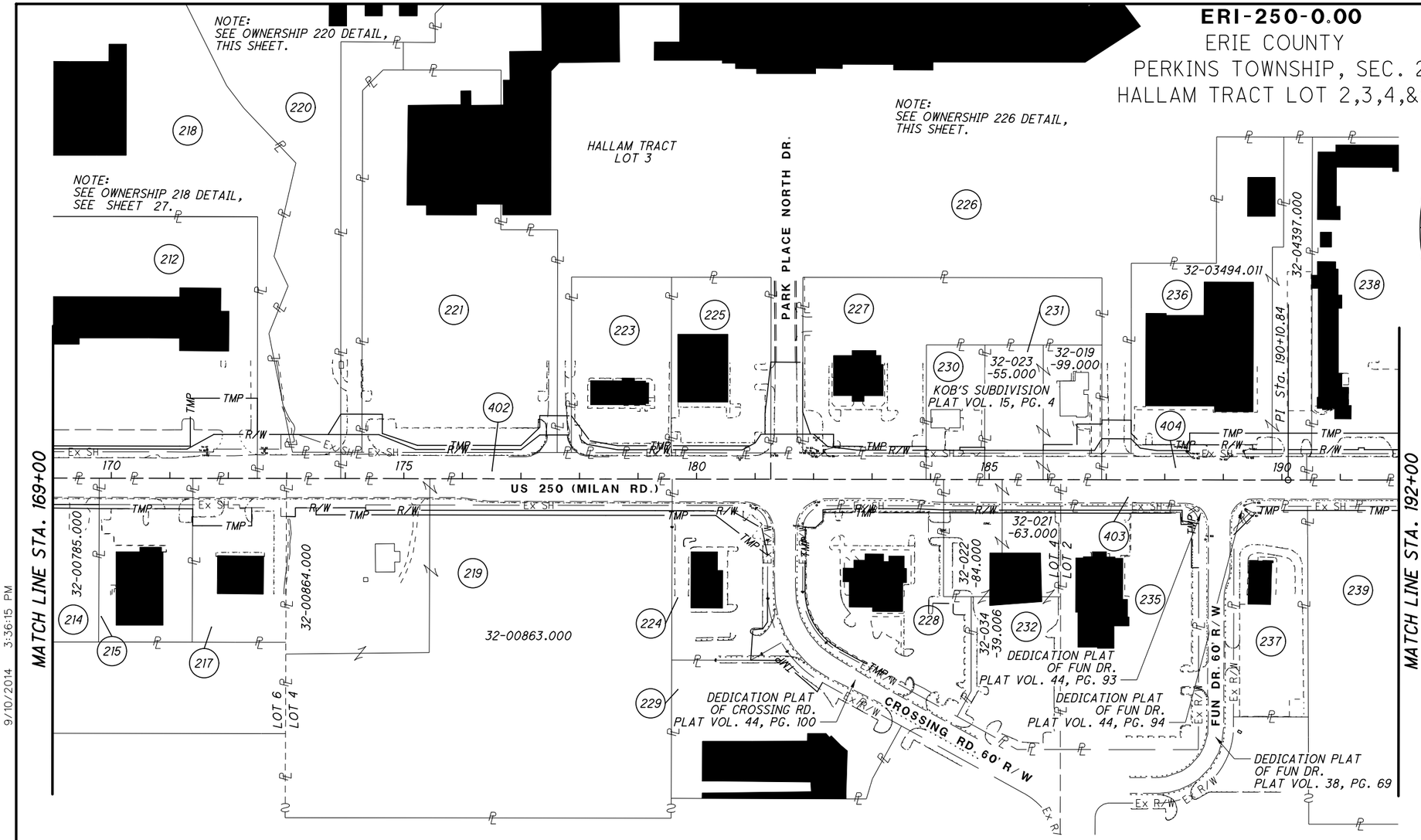
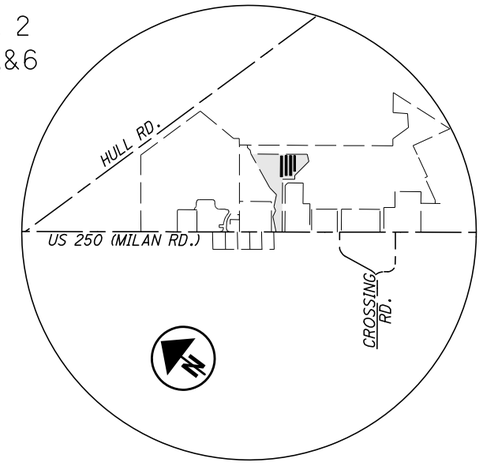
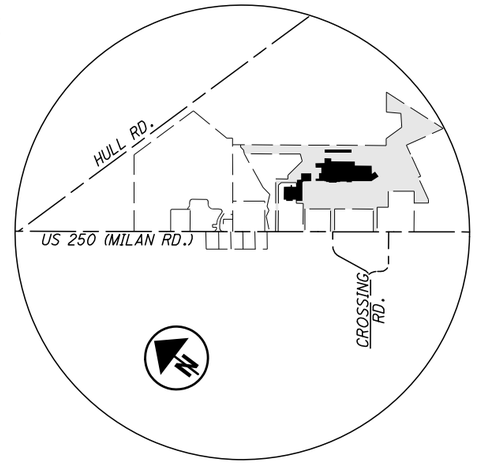
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 2,3,4,&6





OWNERSHIP 220 DETAIL
N.T.S.



OWNERSHIP 226 DETAIL
N.T.S.

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
212	4920 MILAN INVESTMENTS, LTD.	32-00844.097
		32-04312.000
		32-03494.004
214	PLI, II, LTD., (AKA PLI, II) AN OHIO	32-03935.000
	LIMITED LIABILITY COMPANY	32-00785.000
215	PELZ PROPERTIES, LLC, AN OHIO	32-01878.000
	LIMITED LIABILITY COMPANY	
217	5005 MILAN, LTD, AN OHIO	32-01642.000
	LIMITED LIABILITY COMPANY	
218	UNITED MOTOR SALES, LLC, AN OHIO	32-03494.005
	LIMITED LIABILITY COMPANY	
219	DAVID W DEEHR, DALE F. DEEHR AND	32-00863.000
	SUSAN L. RABBITT	32-00864.000
220	STORAGE ZONE ENTERPRISES, LLC, AN OHIO	32-03494.012
	LIMITED LIABILITY COMPANY	
221	TOYS "R" US PROPERTY COMPANY II, LLC(F/N/A	32-03494.009
	(F/N/A GIRAFFE PROPERTIES, LLC),	
	A DELAWARE LIMITED LIABILITY COMPANY	
223	PAUL E HAMMERSMITH TRUSTEE OF THE PAUL E.	32-03494.022
	HAMMERSMITH DECLARATION OF TRUST	
	DATED 06/17/2008	

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
224	BCC SANDUSKY PERMANENT, LLC, AN OHIO	32-03439.003
	LIMITED LIABILITY COMPANY	
225	FRED VOGEL PROPERTIES I, LLC, A CALIFORNIA	32-03494.013
	LIMITED LIABILITY COMPANY AND JILL VOGEL	
	PROPERTIES I, LLC, A CALIFORNIA LIMITED	
	LIABILITY COMPANY	
226	MP PARK PLACE LCC	32-03494.001
227	SWCA, LLC, A DELAWARE	32-03494.003
	LIMITED LIABILITY COMPANY	
228	BCC SANDUSKY PERMANENT, LLC, AN OHIO	32-03439.002
	LIMITED LIABILITY COMPANY	
229	SANDUSKY RETAIL PARTNERS, LLC, A DELAWARE	32-03439.005
	LIMITED LIABILITY COMPANY	
230	KENNETH JAMES MCGILL & IRENE MCGILL FAMILY	32-01744.000
	TRUST, UNDER TRUST DECLARATION JUNE 1, 1996	
231	ANTHONY ALBERT KOWALSKI, DANIEL LEE KOWALSKI,	32-02355.000
	AND DAVID ALLEN KOWALSKI	32-01999.000
232	RARE HOSPITALITY INTERNATIONAL, INC.,	32-02284.000
		32-02163.000
		32-0349.006

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
235	REALTY INCOME CORPORATION,	32-02006.001
	A MARYLAND CORPORATION	
236	ERIE SHORES PROPERTIES HOLDINGS, LLC, AN OHIO	32-03494.011
	LIMITED LIABILITY COMPANY	32-04397.000
237	AHG LANDHOLINGS OF ABSECON, LLC, A	32-02006.003
	NEW JERSEY LIMITED LIABILITY COMPANY	
238	GIOVANNA RUTA INC	32-04395.000
239	GOODNIGHT INN, INC., AN OHIO CORPORATION (2/3 int.)	32-03302.000
	CARMELO RUTA (1/3 INTEREST)	
402	UNKNOWN OWNER	
403	UNKNOWN OWNER	
404	UNKNOWN OWNER	

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME
JJ	5/22/14	PAR. 239; CORRECTED OWNER NAME
JJ	4/18/14	PAR. 238; REVISED R/W TALE
JJ	10/31/13	PARCEL 228; REVISED WD TAKE
JJ	10/23/14	PARCEL 214; CORRECTED OWNER NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET: 0, 50, 100, 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 169+00 TO STA. 192+00

ERI-250-0.00

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527 / 677

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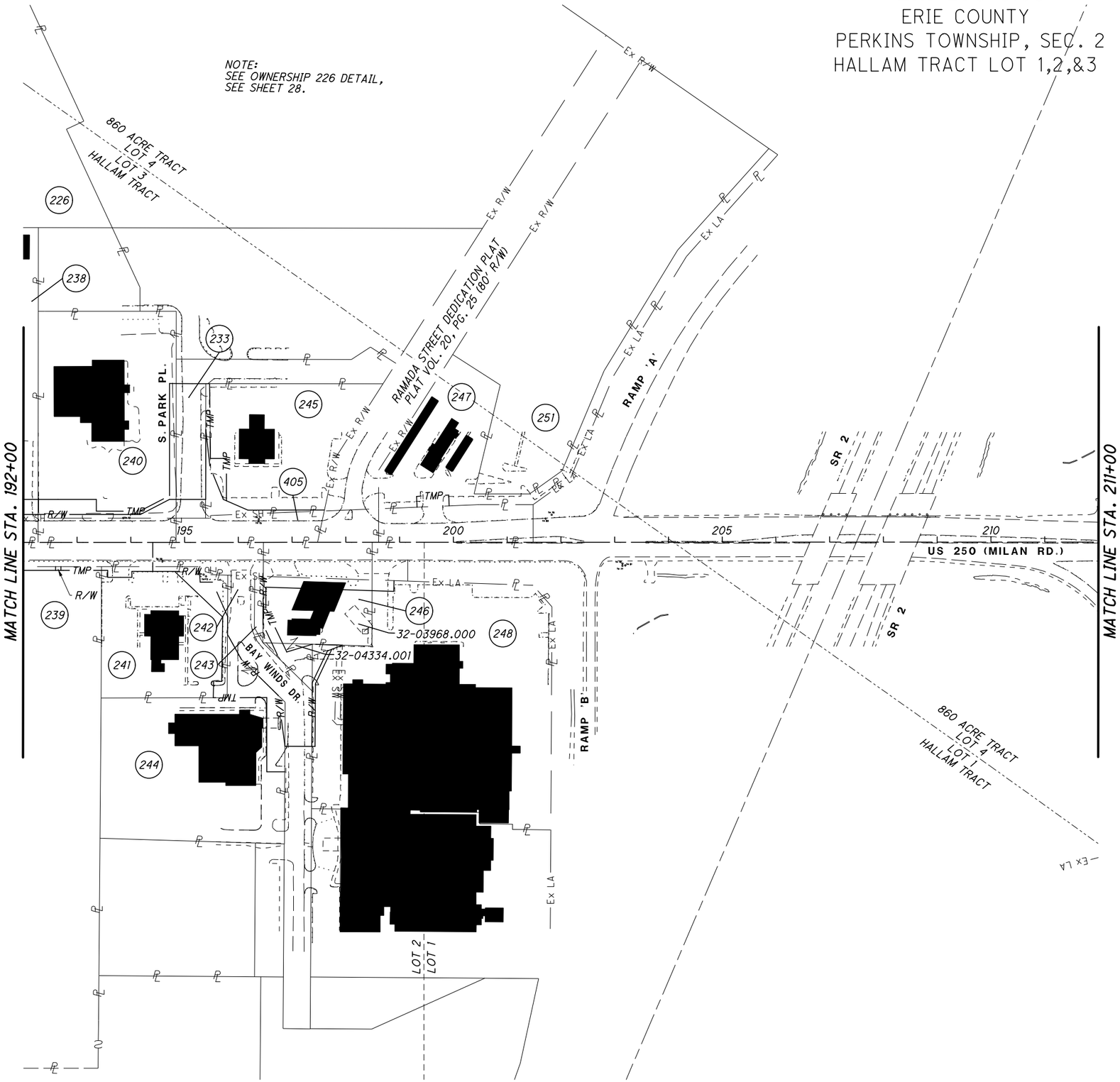
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 1,2,&3



PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
226	PARK PLACE ENTERPRISES, LTD., AN OHIO	32-03494.001
	LIMITED LIABILITY COMPANY	
233	MP PARK PLACE LLC	32-03494.025
238	GIOVANNA RUTA INC	32-04395.000
239	GOODNIGHT INN, INC., AN OHIO CORPORATION	32-03302.000
240	FIRELANDS REGIONAL MEDICAL CENTER, AN OHIO	32-63010.000
	NON-PROFIT CORPORATION	
241	AEI NET LEASE INCOME & GROWTH FUND XX LIMITED	32-04334.003
	PARTNERSHIP, A MINNESOTA LIMITED PARTNERSHIP,	
	AND AEI INCOME & GROWTH FUND 24 LLC, A	
	DELAWARE LIMITED LIABILITY COMPANY	
	BLUFF VIEW ESTATES, INC.; PHELPS ENTERPRISES, INC.;	
	BRUNO ISCRA AND ESTERINA ISCRA; HAROLD EASTMAN	
	AND MARIANNA EASTMAN, TRUSTEES OF THE HAROLD	
	EASTMAN AND MARIANNA EASTMAN 2007 TRUST; FRANK	
	M. EASTMAN, TRUSTEE OF THE FRANK M. EASTMAN 2008	
	REVOCABLE TRUST; CHARLES ALLEN SCHUETTE	
	AND MARY J. SCHUETTE	
242	WMOG INVESTMENT, INC., AN OHIO CORPORATION,	32-03423.001
	AN UNDIVIDED 1/2 INTEREST, AND DSC LTD, AN OHIO	
	LIMITED LIABILITY COMPANY, AN	
	UNDIVIDED 1/2 INTEREST	
243	S & S REALTY, LTD., AN OHIO	32-04334.002
	LIMITED LIABILITY COMPANY	
244	J & M HOSPITALITY, LLC, AN OHIO LIMITED	32-04334.000
	LIABILITY COMPANY	
245	FIRST FEDERAL BANK OF OHIO, A FEDERALLY	32-03494.008
	CHARTERED SAVINGS BANK	
246	DISTRICT PETROLEUM PRODUCTS, INC.,	32-03968.000
	AN OHIO CORPORATION	32-04334.001
247	ULTIMATE DEVELOPING LLC	32-03469.000
248	ERIE SHORE, LLC, A DELAWARE	32-01216.000
	LIMITED LIABILITY COMPANY	
405	UNKNOWN OWNER	

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 192+00 TO STA. 211+00

ERI-250-0.00

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	11/3/14	PAR. 247; REMOVED PARCEL 247-WL
JJ	9/10/14	PAR. 233; REVISED OWNERSHIP NAME
JJ	4/18/14	PAR. 239; REVISED R/W TAKE
JJ	3/14/14	PAR 241; REVISED NEW OWNERSHIP CHANGE

DATE COMPLETED 9/12/13

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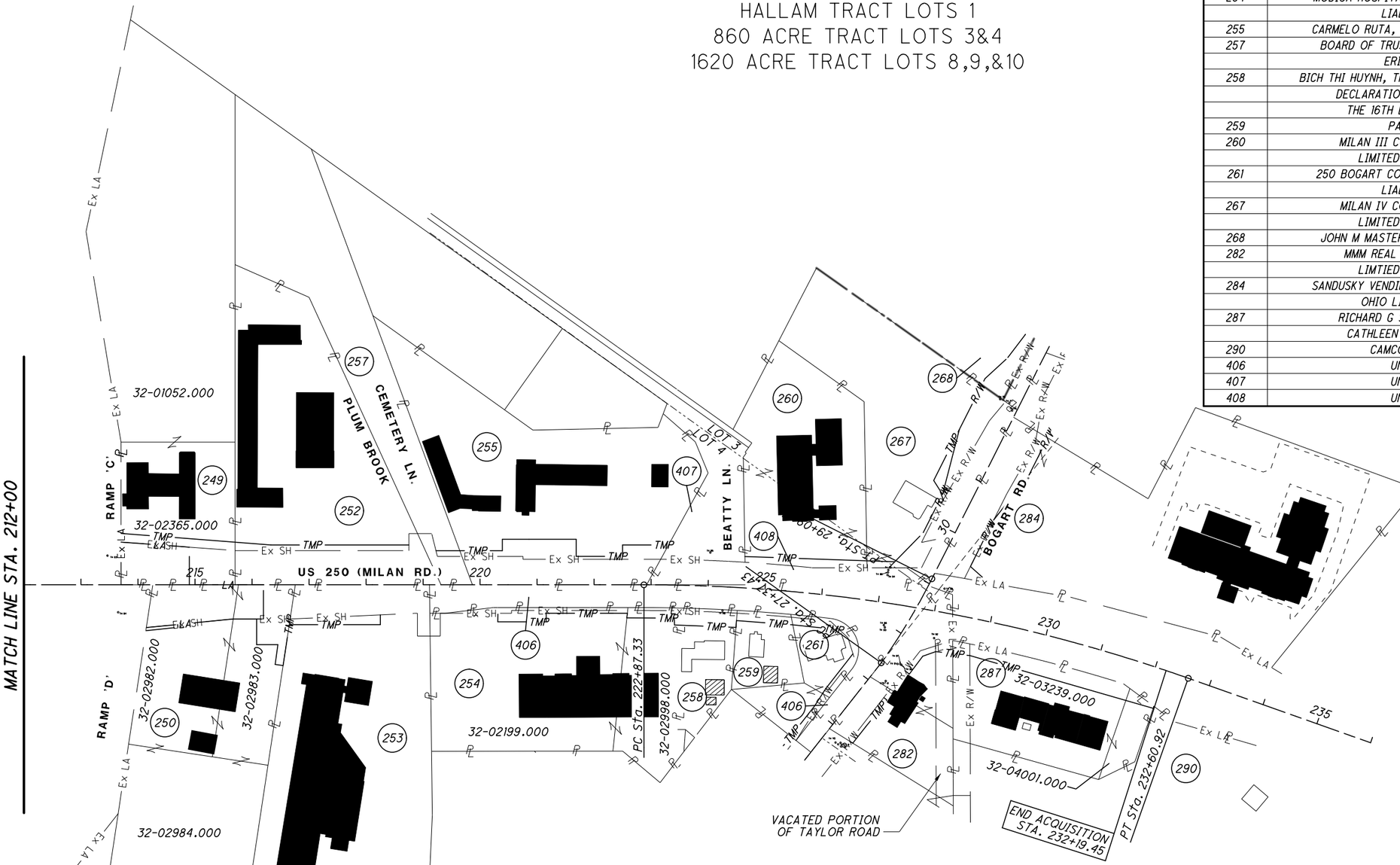
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
HALLAM TRACT LOTS 1
860 ACRE TRACT LOTS 3&4
1620 ACRE TRACT LOTS 8,9,&10

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
253	GRANDE HOSPITALITY, LLC, AN OHIO LIMITED	32-03989.000
	LIABILITY COMPANY	
254	MODICA HOSPITALITY, LLC, AN OHIO LIMITED	32-02199.000
	LIABILITY COMPANY	32-02998.000
255	CARMELO RUTA, INC., AN OHIO COROPRATION	32-01503.000
257	BOARD OF TRUSTEE OF PERKINS TOWNSHIP	32-63002.000
	ERIE COUNTY OHIO	
258	BICH THI HUYNH, TRUSTEE OF THE BICH THI HUYNH	32-02998.000
	DECLARATION OF TRUST, UAW DATED	
	THE 16TH DAY OF FEBRUARY 1996	
259	PATRICIA A LAUX	32-03793.000
260	MILAN III COMPANY, LTD., AN OHIO	32-04629.001
	LIMITED LIABILITY COMPANY	
261	250 BOGART CORNER LTD, AN OHIO LIMITED	32-03649.000
	LIABILITY COMPANY	
267	MILAN IV COMPANY, LTD., AN OHIO	32-04629.000
	LIMITED LIABILITY COMPANY	
268	JOHN M MASTERSON & MARY G MASTERSON	32-00487.000
282	MMM REAL ESTATE LTD., AN OHIO	32-00065.000
	LIMTIED LIABILITY COMPANY	
284	SANDUSKY VENDING LIMITED PARTNERSHIP, AN	32-01261.000
	OHIO LIMITED PARTNERSHIP	
287	RICHARD G SCHUSTER, TRUSTEE AND	32-03239.000
	CATHLEEN C.SCHUSTER, TRUSTEE	32-04001.000
290	CAMCO PROPERTIES LLC	32-04001.002
406	UNKNOWN OWNER	
407	UNKNOWN OWNER	
408	UNKNOWN OWNER	



PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
249	EMRO MARKETING COMPANY, A DELAWARE	32-02365.000
	CORPORATION NKA SPEEDWAY LLC,	32-01052.000
	A DELAWARE LIMITED LIABILITY COMPANY	
250	SJA REALITY ENTERPRISES, LLC NKA	32-02982.000
	ALLISON FAMILY PARTNERSHIP LLC AN	32-02983.000
	OHIO LIMITED LIABILITY COMPANY	32-02984.000
252	CARMELO RUTA, INC., AN OHIO CORPORATION	32-03054.000

STRUCTURE KEY
- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 249; CORRECTED OWNER NAME
JJ	4/26/14	PAR. 250; ADDED TAX PARCEL 32-02987.000
JJ	12/2/13	PAR. 249; ADDED ADDITIONAL TAX PARCEL
JJ	11/6/13	PORTION OF TAYLOR ROAD VACATION
JJ	10/30/13	ADDED PARCEL 290

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 212+00 TO STA. 236+00

ERI-250-0.00

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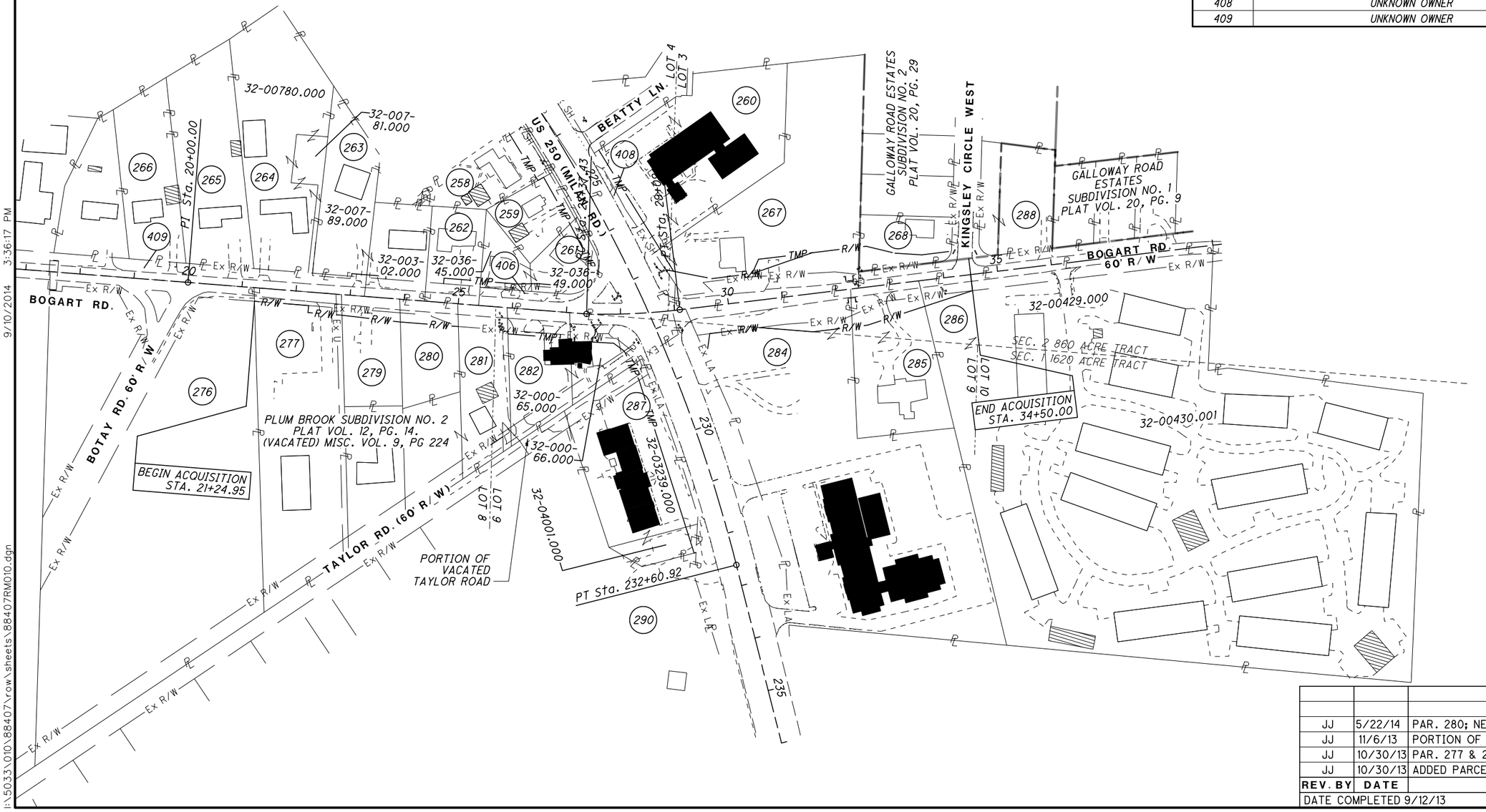
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & SEC. 2
HALLAM TRACT LOT 1
860 ACRE TRACT LOTS 3&4
1620 ACRE TRACT LOTS 8,9,&10

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
258	BICH THI HUYNH, TRUSTEE OF THE BICH THI HUYNH	32-02998.000
	DECLARATION OF TRUST, UAW DATED	
	THE 16TH DAY OF FEBRUARY 1996	
259	PATRICIA A LAUX	32-03793.000
260	MILAN III COMPANY, LTD., AN OHIO	32-04629.001
	LIMITED LIABILITY COMPANY	
261	250 BOGART CORNER LTD, AN OHIO LIMITED	32-03649.000
	LIABILITY COMPANY	32-03645.000
262	PAUL L DECKER & SHIRLEY F DECKER, TRUSTEES OF	32-00855.000
	THE DECKER FAMILY REVOCABLE LIVING TRUST	
	DATED 3/4/94	
263	GENE R DAGIAU & JANICE E DAGIAU, CO-TRUSTEES	32-00302.000
	OF THE DAGIAU FAMILY TRUST,	32-00789.000
	DATED AUGUST 17, 2007	
264	RONALD D LANDIS & JACQUELINE M. LANDIS	32-00781.000
		32-00780.000
265	MARK W MANNER & JEANNIE E. MANNER	32-003699.000
266	SANDUSKY VENDING LIMITED PARTNERSHIP	32-02450.000

PARCEL NO.	OWNER	AUDITOR'S ID NUMBER
267	MILAN IV COMPANY, LTD., AN OHIO	32-04629.000
	LIMITED LIABILITY COMPANY	
268	JOHN M MASTERSON & MARY G MASTERSON	32-00487.000
276	LYON A. BAUMLER & DOROTHY M BAUMLER, TR	32-00210.000
277	BOARD OF EDUCATION OF THE PERKINS	32-65004.000
	LOCAL SCHOOL DISTRICT	
279	ANGELA A BIANCO	32-03630.001
280	ERIE COUNTY LAND REUTILIZATION CORP.	32-02432.000
281	DONNA J YOST	32-00560.000
282	MMM REAL ESTATE LTD., AN OHIO	32-00065.000
	LIMTIED LIABILITY COMPANY	32-00066.000
284	SANDUSKY VENDING LIMITED PARTNERSHIP	32-01261.000
285	SCOTT J MULARONI & BECKY A MULARONI	32-01677.000
286	SHAKER VILLAGE RENTAL COMMUNITIES, LTD., AN	32-00429.000
	OHIO LIMITED LIABILITY COMPANY	32-0430.001
287	RICHARD G SCHUSTER, TRUSTEE AND	32-03239.000
	CATHLEEN C.SCHUSTER, TRUSTEE	32-04001.000
288	DANIEL L BRENNAN	32-00431.000
290	CAMCO PROPERTIES LLC	32-04001.002
408	UNKNOWN OWNER	
409	UNKNOWN OWNER	



STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

REV. BY	DATE	DESCRIPTION
JJ	5/22/14	PAR. 280; NEW OWNERSHIP NAME
JJ	11/6/13	PORTION OF TAYLOR ROAD VACATION
JJ	10/30/13	PAR. 277 & 279 WDV TAKES
JJ	10/30/13	ADDED PARCEL 290

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

PROPERTY MAP
STA. 360+00 TO STA. 386+50

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31 / 178
530 / 677

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
22		22A	58	JEAN-PIERRE VAN RAEPENBUSCH, TRUSTEE	I201303952		INGRESS/EGRESS DRIVEWAY
				& ANNE D. VAN RAEPENBUSCH, TRUSTEE			EASEMENT
123		123A	59	STATE OF OHIO	D 399	532	HIGHWAY EASEMENT
		123B		DIRECTOR OF TRANSPORTATION	D 458	233	HIGHWAY EASEMENT
				STATE OF OHIO			
124		124A	59	BOARD OF COUNTY	D 397	558	WATER MAIN EASEMENT
				COMMISSIONERS OF ERIE CO., OHIO			
		124B		STATE OF OHIO	D 400	79	HIGHWAY EASEMENT
		124C		NOT USED			
		124D		DIRECTOR OF TRANSPORTATION	D 458	233	HIGHWAY EASEMENT
				STATE OF OHIO			
128		128A	59	STATE OF OHIO	D 379	309	SANITARY SEWER EASEMENT
		128B		STATE OF OHIO	D 400	195	HIGHWAY EASEMENT
		128C		OHIO EDISON	D 400	765	ELECTRIC ENERGY EASEMENT
		128D		STATE OF OHIO	D 442	350	HIGHWAY EASEMENT
131		131A	59	STATE OF OHIO	D 396	755	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		131B		STATE OF OHIO	D 440	124	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		131C		3104 MILAN INVESTMENTS, LLC	I 201004827		DECLARATION OF RESTRICTION
							RESTRICTS INSTALLATION OF
							LANDSCAPING/IMPROVEMENTS
		131D		STATE OF OHIO	D 400	63	HIGHWAY EASEMENT
		131E		STATE OF OHIO	D 439	934	HIGHWAY EASEMENT
		131F		STATE OF OHIO	D 397	170	HIGHWAY EASEMENT
		131G		STATE OF OHIO	D 433	342	HIGHWAY EASEMENT
135		135A	59	STATE OF OHIO	D 397	101	HIGHWAY EASEMENT
		135B		STATE OF OHIO	D 439	213	HIGHWAY EASEMENT
137		137A	59	STATE OF OHIO	D 397	510	HIGHWAY EASEMENT
		137B		STATE OF OHIO	D 397	101	HIGHWAY EASEMENT
		137C		STATE OF OHIO	D 439	213	HIGHWAY EASEMENT

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
139		139A	59	STATE OF OHIO	D 396	767	HIGHWAY EASEMENT
		139B		STATE OF OHIO	D 433	348	HIGHWAY EASEMENT
143		143A	59	STATE OF OHIO	D 394	708	HIGHWAY EASEMENT
		143B		OHIO EDISON COMPANY	D 400	873	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			
		143C		OHIO BELL TELEPHONE COMPANY	D 407	555	COMMUNICATION EASEMENT
145		145A	59	STATE OF OHIO	D 397	513	HIGHWAY EASEMENT
		145B		STATE OF OHIO	D 398	112	HIGHWAY EASEMENT
147		147A	59	STATE OF OHIO	D 398	112	HIGHWAY EASEMENT
		147B		STATE OF OHIO	D 433	369	HIGHWAY EASEMENT
148		148A		NOT USED			
		148B		STATE OF OHIO	D 464	856	HIGHWAY EASEMENT
		148C		BOARD OF COUNTY	D 484	457	WATER MAIN EASMENT
				COMMISSIONERS OF ERIE CO., OHIO			
		148D		BOARD OF COUNTY	D 442	337	SANITARY SEWER EASEMENT
				COMMISSIONERS OF ERIE CO., OHIO			
		148E		OHIO EDISON COMPANY	D 486	136	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			
		148F		OHIO EDISON COMPANY	OR 116	75	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			
		148G		COLUMBIA GAS OF OHIO, INC.	OR 125	888	PIPELINE EASEMENT
152		152A	60	STATE OF OHIO	D 399	132	45' HIGHWAY EASEMENT
							IN PROJECT AREA
		152B		OHIO EDISON COMPANY	D 401	198	UTILITY EASEMENT
				AN OHIO CORPORATION			2' EASMENT FROM ROW LINE OF 250
							IN TAKE AREA
		152C		BARBARA A. WAGNER	D 416	427	20' WATER AND SANITARY EASEMENT
							NOT IN TAKE AREA
		152D		BOARD OF COUNTY	D 428	21	20' WATER AND SANITARY EASEMENT
				COMMISSIONERS OF ERIE CO., OHIO			NOT IN TAKE AREA
		152E		STATE OF OHIO	D 439	621	45' HIGHWAY EASEMENT
							IN PROJECT AREA
153		153A	60	STATE OF OHIO	D 399	397	HIGHWAY EASEMENT

LEGEND:
D = DEED
I = INSTRUMENT NUMBER
RN = REGISTRATION NUMBER
OR = OFFICIAL RECORD
MISC = MISCELLANEOUS
P = PLAT
N/A = NOT APPLICABLE
= UNDETERMINED

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530

PID NO. 88407

STATE JOB NO. 43809

R/W DESIGNER JJ

R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		153B		STATE OF OHIO	D 464	856	PERPETUAL EASEMENT
							FOR HIGHWAY PURPOSES
		153C		BOARD OF COUNTY	D 484	857	WATER MAIN EASEMENT
				COMMISSIONERS OF ERIE CO., OHIO			
		153D		BOARD OF COUNTY	D 442	337	SANITARY SEWER EASEMENT
				COMMISSIONERS OF ERIE CO., OHIO			
		153E		OHIO EDISON COMPANY	D 486	136	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			
154		154A	60	THE STATE OF OHIO	D 432	990	HIGHWAY EASEMENT
		154B		THE STATE OF OHIO	D 433	562	AMENDED HIGHWAY EASEMENT
		# 154C		OHIO EDISON COMPANY	D 435	511	UTILITY EASEMENT
		154D		CORSO REALTY, INC & AUGUST CORSO	D 534	783	DRIVEWAY EASEMENT
				SONS, INC			
		154E		CORSO REALTY, INC & AUGUST CORSO	D 535	187	DRIVEWAY EASEMENT
				SONS, INC			
		154F		THE CALAVARY BAPTIST CHURCH	D 547	592	DRIVEWAY EASEMENT
		154G		BOARD OF COUNTY COMMISSIONERS OF	RN 200811013		SEWER EASEMENT
				ERIE COUNTY OHIO			
		154H		BUCKEYE CABLEVISION, INC.	RN 201102682		UTILITY EASEMENT
155		155A	60	STATE OF OHIO	D 399	132	45' HIGHWAY EASEMENT
							IN PROJECT AREA
		155B		OHIO EDISON COMPANY	D 401	198	UTILITY EASEMENT
				AN OHIO CORPORATION			FOR ELECTRIC & TELEPHONE LINES
							2' EASEMENT FROM 250 ROW LINE
							IN TAKE AREA
		155C		BARBARA A. WAGNER	D 416	427	WATER AND SAN. SEWER EASEMENT
							20' EASEMENT
							NOT IN TAKE AREA
		155D		BERNICE C. DISBROW	D 420	297	UTILITY EASEMENT
							NOT IN TAKE AREA
		155E		STATE OF OHIO	D 437	311	45' HIGHWAY EASEMENT
							IN PROJECT AREA
		155F		STATE OF OHIO	D 439	210	45' HIGHWAY EASEMENT
							IN PROJECT AREA
		# 155G		FREMONT AREA DEVELOPMENT INC.	D 438	765	25' WATER AND SANITARY
							SEWER EASEMENT
							NOT IN TAKE AREA
		155H		ROBERT H. ROUTH AND SALLY E. ROUTH	OR 440	69	UTILITY EASEMENT
							NOT IN TAKE AREA
157		157A	60	STATE OF OHIO	D 431	458	HIGHWAY EASEMENT

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		159J		O. GEORGE RUTA	D 440	249	20' INGRESS/EGRESS EASEMENT
		159K		EUGENE HARKELROAD &	D 483	179	20' INGRESS/EGRESS EASEMENT
				DAVID HARKELROAD			
		159L		OHIO EDISON	D 486	590	UTILITY EASEMENT
							BLANKET EASEMENT FOR
							ELECTRIC AND TELEPHONE LINES
							IN TAKE AREA
		159M		CRISCIONE PROPERTIES, LTD.	I 200116009		20' INGRESS/EGRESS EASEMENT
160	160L1		60	COMMERCIAL LEASE TO	I 200712108		TERM - 20 YEAR WITH
				FRIENDLY ICE CREAM CORPORATION,			(3) 8 YEAR RENEWAL OPTIONS
				A MASSACHUSETTS CORPORATION			FROM 8/30/2007
	160L2			COMMERCIAL LEASE TO	I 200500832		TERM - 2 YEAR FROM 12/30/2004
				JEMM RESTAURANTS, LLC			WITH OPTION TO RENEW
				AN OHIO LIMITED LIABILITY COMPANY			FOR ADD'L 18 YEARS
		160A		STATE OF OHIO	D 399	132	HIGHWAY EASEMENT
		160B		OHIO EDISON	D 401	198	2' UTILITY EASEMENT
							FOR ELECTRIC AND TELEPHONE LINES
							2' EASEMENT FROM US250 ROW
							LINE - IN TAKE AREA
		160C		BARBARA A. WAGNER	D 416	427	20' WATER AND SANITARY EASEMENT
							NOT IN TAKE AREA
		160D		FREMONT AREA DEVELOPMENT INC.	D 438	765	25' WATER AND SANITARY EASEMENT
							NOT IN TAKE AREA
		160E		STATE OF OHIO	D 439	210	HIGHWAY EASEMENT
		160F		O. GEORGE RUTA	D 440	249	20' INGRESS/EGRESS EASEMENT
		160G		ROBERT J. GAUDMULT, S. PRESTLEY	D 447	895	SANITARY EASEMENT
				BLAKE, ERIC W. ANDERSON, AND			NOT IN PROJECT AREA
				JAMES P. STAGGS AS TRUSTEES OF			
				BLAKE BROTHERS COMPANY,			
				A MASSACHUSETTS TRUST			
		160H		OHIO EDISON	D 452	734	UTILITY EASEMENT
							BLANKET EASEMENT FOR
							ELECTRIC AND TELEPHONE LINES
							IN TAKE AREA
		160I		O ICE, LLC	I 200712770		SANITARY EASEMENT
				A DELAWARE LIMITED LIABILITY COMPANY			NOT IN PROJECT AREA
161		161A	60	DOROTHY L. KNOLL	D 198	537	RESTRICTION ON DEED
							NO BUILDINGS, EXCEPT PORCHES
							SHALL BE ERECTED ON OR BE
							PLACED WITHIN 30' OF WEST LINE
							OF SAID MILAN ROAD
		161B		OHIO EDISON	D 400	747	UTILTY EASEMENT
							FOR ELECTRIC AND TELEPHONE LINES
							2' EASEMENT FROM ROW LINE
							OF US 250

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		161C		STATE OF OHIO	D431	805	JUDGEMENT DECREE
							45' HIGHWAY EASEMENT
							IN PROJECT AREA
162		162A	60	GENE R. DAGIAU AND INEZ L. DAGIAU	D 223	199	RESTRICTION ON DEED
							NO BUILDINGS, EXCEPT PORCHES
							SHALL BE ERECTED ON OR BE
							PLACED WITHIN 30' OF WEST LINE
							OF SAID MILAN ROAD
		162B		DAVID R. LAZARONY AND JEAN H. LAZARONY	D 456	35	INGRESS/EGRESS EASEMENT
				AND WILLIAM H. SMITH JR. AND			SIGN EASEMENT
				ELINOR J. SMITH			
		162C		GENE R. DAGIAU AND INEZ L. DAGIAU	D 456	37	DRIVEWAY EASEMENT AND
							UTILITY EASEMENT
		162D		FLEX-TECH PROFESSIONAL SERVICES, INC.	OR 295	827	COMMON DRIVEWAY EASEMENT
		162E		CRISCIONE PROPERTIES, LTD	I 200116009		RIGHT OF WAY EASEMENT
				AN OHIO LIMITED LIABILITY COMPANY			OVER AND THROUGH FOR MOTOR
							VEHICLE AND FOOT TRAFFIC
		# 162F		MR. WILLIAM CRISCIONE AND CRISCIONE	I 200116010		LICENSE AGREEMENT
				PROPERTIES, LTD.			AUTHORIZES LICENSEE TO ENTER
							PROPERTY UTILIZED AS A DRIVEWAY
							IN ABOVE ROW EASEMENT
		162G		250 MINI-MALL, LTD,	I 200200238		QUITCLAIM DEED OF EASEMENT
				AN OHIO LIMITED LIABILITY CORPORATION			GROSS EASEMENT FOR USE OF
							THE ENTIRE PREMISES; EASEMENT
							SHALL RUN WITH THE LAND
163	163L1		60	COMMERCIAL LEASE TO MONRO MUFFLER	OR 374	193	TERM - 11 YEARS WITH OPTION
				BRAKE, INC.			TO EXTEND FOR 7 SUCCESSIVE
							EXTENTIONS OF 5 YEARS EACH
		163A		EDWARD M. STURZINGER AND	D 185	466	BUILDING RESTRICTIONS
				CLISTY STURZINGER	D 176	525	BUILDING EASEMENT RESTRICTING
					D 223	199	PLACEMENT TO WITHIN 30' OF
							THE WEST LINE OF MILAN ROAD
		163B		COLUMBIA GAS OF OHIO, INC.	D 402	732	UTILITY EASEMENT
							10 FEET TO LAY A PIPELINE &
							SERVICE CONNECTIONS
		163C		OHIO BELL TELEPHONE COMPANY	D 413	690	UTILITY EASEMENT
							PERPETUAL ROW EASEMENT FOR
							COMMUNICATION SYSTEM
		163D		J. PHILLIP RICHLEY, OHIO DEPARTMENT			
				OF TRANSPORTATION, STATE OF OHIO	D 431	493	HIGHWAY EASEMENT
							PERPETUAL EASEMENT
		163E		GENE R. DAGIAU AND INEZ L. DAGIAU	D 456	37	DRIVEWAY EASEMENT
167		167A	60	STATE OF OHIO	D 439	784	HIGHWAY EASEMENT
		167B		OHIO BELL TELEPHONE COMPANY	D 413	693	UTILITY EASEMENT

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DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530

PID NO. 88407

STATE JOB NO. 43009

R/W DESIGNER JJ

R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

ERI-250-0.00

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							PERPETUAL 5' EASEMENT TO
							CONSTRUCT & MAINTAIN
							COMMUNICATION LINES WITH
							INGRESS/EGRESS
		167C		COLUMBIA GAS OF OHIO, INC.	D 402	732	UTILITY EASEMENT
							PERPETUAL 10' EASEMENT TO
							CONSTRUCT/MAINTAIN A PIPE LINE
							WITH INGRESS/EGRESS
		167D		OHIO EDISON COMPANY,	D 400	744	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR THE
							DISTRIBUTION OF ELECTRIC CURRENT
							WITH INGRESS/EGRESS
		167E		STATE OF OHIO	D 397	110	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
170		170A	60	THE OHIO BELL TELEPHONE COMPANY	D 413	642	UTILITY EASEMENT
							PERPETUAL 5' EASEMENT TO
							CONSTRUCT AND MAINTAIN
							COMMUNICATION LINES WITH
							INGRESS/EGRESS
		170B		COLUMBIA GAS OF OHIO, INC.	D 402	732	UTILITY EASEMENT
							PERPETUAL 10' EASEMENT TO
							CONSTRUCT AND MAINTAIN PIPELINE
							WITH INGRESS/EGRESS
		170C		OHIO EDISON COMPANY,	D 400	746	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							DISTRIBUTION OF ELECTRIC
							CURRENT WITH INGRESS/EGRESS
		170D		STATE OF OHIO	D 397	516	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
174		174A	60	OHIO EDISON COMPANY,	D 364	450	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT & ROW FOR ELECTRICITY
		174B		THE OHIO BELL TELEPHONE COMPANY	D 347	641	UTILITY EASEMENT
							PERPETUAL EASEMENT & ROW
							FOR TELEPHONE POLES & WIRES
		174C		STATE OF OHIO	D 394	804	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		174D		STATE OF OHIO	D 396	248	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		174E		STATE OF OHIO	D 400	760	UTILITY EASEMENT
							EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRIC CURRENT
		174F		OHIO EDISON COMPANY,	D 402	704	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRIC CURRENT
		174G		COLUMBIA GAS OF OHIO, INC.	D 402	732	UTILITY EASEMENT FOR
							PIPE LINE & SERVICE CONNECTIONS

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		174H		COLUMBIA GAS OF OHIO, INC.	D 402	736	UTILITY EASEMENT FOR
							PIPE LINE & SERVICE CONNECTIONS
		174I		OHIO EDISON COMPANY,	D 402	753	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		174J		OHIO EDISON COMPANY,	D 402	754	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		174K		THE OHIO BELL TELEPHONE COMPANY	D 413	651	UTILITY EASEMENT
							PERPETUAL EASEMENT & ROW
							FOR TELEPHONE POLES & WIRES
		174L		THE OHIO BELL TELEPHONE COMPANY	D 413	657	UTILITY EASEMENT
							PERPETUAL EASEMENT & ROW
							FOR TELEPHONE POLES & WIRES
		174M		STATE OF OHIO	D 435	867	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		174N		STATE OF OHIO	D 435	968	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		174O		STATE OF OHIO	D 436	309	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		174P		STATE OF OHIO	D 443	293	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		# 174Q		OHIO EDISON COMPANY,	OR 228	250	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
175	175L1		60	COMMERCIAL LEASE TO ALDI INC. (OHIO)	I 200907194		TERM - 10 YEARS WITH 4
							SUCCESSIVE RENEWAL OPTIONS
							OF 5 YEARS
		175A		LOTTA F. CLARK, HELEN E. WHITNEY AKA	D 236	322	UTILITY EASEMENT
				HELEN CLARK WHITNEY, AND			RIGHT TO USE A SEWER FOR
				MARJORIE C. HARDY			THE DISPOSAL OF SEWAGE
		175B		OHIO EDISON COMPANY,	D 364	645	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		175C		OHIO EDISON COMPANY,	D 365	363	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		175D		STATE OF OHIO	D 396	399	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		# 175E		OHIO EDISON COMPANY,	D 402	713	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		175F		COLUMBIA GAS OF OHIO, INC.	D 402	744	UTILITY EASEMENT FOR
							PIPE LINE & SERVICE CONNECTIONS
		175G		STATE OF OHIO	D 460	358	HIGHWAY EASEMENT

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FEDERAL PROJECT NO. E-100530

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R/W DESIGNER JJ

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		# 175H		OHIO EDISON COMPANY,	OR 228	250	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		175I		JRSMI, LLC	I 200802460		DECLARATION OF RECIPROCAL
				AN OHIO LIMITED LIABILITY COMPANY			EASEMENTS AND OPERATING
							AGREEMENT
		175J		LAKECREST TOWN CENTER SUBDIVISION	P 48	85	PLAT RESTRICTIONS/EASEMENTS
							PROPOSED 12' UTILITY EASEMENT,
							80' BUILDING SETBACK AND
							PROPOSED 20' WATER EASEMENT
176		176A	60	OHIO EDISON COMPANY,	D 340	630	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							DISTRIBUTION OF ELECTRICITY
		176B		COLUMBIA GAS OF OHIO, INC.	D 402	736	UTILITY EASEMENT FOR
							PIPE LINE & SERVICE CONNECTIONS
		176C		THE OHIO BELL TELEPHONE COMPANY	D 413	660	UTILITY EASEMENT
							PERPETUAL EASEMENT & ROW
							FOR COMMUNICATION LINES
		176D		STATE OF OHIO	D 426	549	HIGHWAY EASEMENT
		176E		STATE OF OHIO	D 429	793	HIGHWAY EASEMENT
		176F		JRSMI, LLC,	I 200802460		DECLARATION OF RECIPROCAL
				AN OHIO LIMITED LIABILITY COMPANY			EASEMENTS AND OPERATING
							AGREEMENT
		176G		LAKECREST TOWN CENTER SUBDIVISION	P 48	85	PLAT RESTRICTIONS/EASEMENTS
							PROPOSED 12' UTILITY EASEMENT,
							80' BUILDING SETBACK AND
							PROPOSED 20' WATER EASEMENT
177		177A	60	OHIO DEPARTMENT OF HIGHWAYS	D 402	434	HIGHWAY EASEMENT
		177B		OHIO EDISON COMPANY	D 405	11	UTILITY EASMENT
							15 YEAR EASEMENT TO CONSTRUCT
							AND MAINTAIN COMMUNICATION LINE
		177C		OHIO EDISON COMPANY,	D 494	485	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMEN ALONG STRUB
							ROAD FOR COMMUNICATION LINES
							WITH INGRESS/EGRESS
		177D		OHIO EDISON COMPANY	D 524	264	UTILTIY EASEMENT
							PERPETUAL 15' EASEMENTS (2)
							FOR OVERHEAD ELECTRIC LINES
							WITH INGRESS/EGRESS
		177E		COLUMBIA GAS OF OHIO, INC.	OR 334	790	UTILITY EASEMENT
							PERPETUAL EASEMENT
							FOR PIPE LINE WITH INGRESS/EGRESS
		177F		BOARD OF COUNTY COMMISSIONERS	I 200004783		UTILITY EASEMENT
				OF ERIE COUNTY			15 YEAR EASEMENT FOR WATER
							LINE WITH INGRESS/EGRESS

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		177G		PERKINS TOWNSHIP TRUSTEES,	I 200402414		ROADWAY BRIDGE EASEMENT
				A BODY POLITIC			1 YEAR EASEMENT TO CONSTRUCT
							AND MAINTAIN BRIDGE
		177H		PERKINS TOWNSHIP TRUSTEES,	I 200402415		ROADWAY BRIDGE EASEMENT
				A BODY POLITIC			15 YEAR EASEMENT TO CONSTRUCT
							AND MAINTAIN BRIDGE
		177I		OHIO EDISON COMPANY	I 200503722		UTILITY EASEMENT
							15' EASEMENT FOR ELECTRICAL
							UTILITY LINE
							TERM OF 15 YEARS
		177J		ERIE COUNTY CABLEVISION, INC.	I 200910136		UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASMENT FOR
							TELECOMMUNICATION TRANSMISSION
							LINES WITH INGRESS/EGRESS
179		# 179A	61	LAKE ERIE POWER AND LIGHT COMPANY	MISC 6	585	UTILTIY EASEMENT
							EASEMENT FOR POWER LINES
		# 179B		THE TOLEDO EDISON COMPANY,	MISC 7	63	ASSIGNMENT OF EASEMENT
				AN OHIO CORPORATION			
		# 179C		OHIO EDISON COMPANY,	D 261	178	ASSIGNMENT OF EASEMENT
				AN OHIO CORPORATION			
		# 179D		OHIO ROAD (APPEARS AS SUCH ON DEED)	D 188	237	UTILITY EASEMENT
				IMPROVEMENT COMPANY			BLANKET EASEMENT FOR GAS LINES
		179E		STATE OF OHIO	D 319	408	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		179F		STATE OF OHIO	D 398	295	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		179G		OHIO EDISON COMPANY,	D 403	437	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR POLES
							AND LINES FOR TRANSMISSION OF
							ELECTRICITY
		179H		BOARD OF COUNTY COMMISSIONERS	D 495	323	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			INSTALLATION OF WATER MAIN
		179I		BOARD OF COUNTY COMMISSIONERS	D 495	330	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			INSTALLATION OF SANITARY SEWER
		179J		BOB EVANS FARMS, INC.	D 495	340	ROAD EASEMENT
				AN OHIO CORPORATION			EASEMENT FOR BOB EVANS TO USE
							SERVICE ROAD & RIGHT TO
							INSTALL/MAINTAIN UTILITY LINES
		179K		BOB EVANS FARMS, INC.	D 495	345	ROAD EASEMENT
				AN OHIO CORPORATION			EASEMENT FOR BOB EVANS FOR
							INGRESS/EGRESS OVER ACCESS RD.
		179L		COLUMBIA GAS OF OHIO, INC.	D 498	730	UTILITY EASEMENT
							LAY AND MAINTAIN GAS PIPE LINE
		179M		C.C. & S. RESTAURANT, INC.,	D 502	215	ROAD EASEMENT
				AN OHIO CORPORATION			EASEMENT FOR USE OF SERVICE

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NOTE: PARCELS 176 & 177 NOT PLOTTED. OUTSIDEOF ACQUISITION AREA.

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DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530

PID NO. 88407

STATE JOB NO. 43809

R/W DESIGNER JJ

R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							ROAD & RIGHT TO INSTALL AND
							MAINTAIN UTILITY LINES
		179N		C.C. & S. RESTAURANT, INC.,	D 502	220	ROAD EASEMENT
				AN OHIO CORPORATION			EASEMENT FOR INGRESS/EGRESS
							OVER ACCESS ROAD
		179O		OHIO BELL TELEPHONE COMPANY	D 507	263	UTILITY EASEMENT
							PERPETUAL ROW AND EASEMENT
							FOR COMMUNICATIONS SYSTEM
		179P		CHHC, INC.,	D 508	412	ROAD EASEMENT
				AN OHIO CORPORATION			INGRESS/EGRESS OVER ACCESS RD.
		179Q		CHHC, INC.,	D 508	417	ROAD EASEMENT
				AN OHIO CORPORATION			USE OF SERVICE ROAD & RIGHT TO
							INSTALL/MAINTAIN UTILITY LINES
		179R		CHI CHI'S OF OHIO, INC.	D 517	493	ROAD EASEMENT
				A KENTUCKY CORPORATION			USE OF SERVICE ROAD & RIGHT TO
							INSTALL/MAINTAIN UTILITY LINES
		179S		CHI CHI'S OF OHIO, INC.	D 517	499	ROAD EASEMENT
				A KENTUCKY CORPORATION			INGRESS/EGRESS OVER
							ACCESS ROAD
		179T		JOHN STOCK & ASSOCIATES,	D 520	336	ROAD EASEMENT
				A PARTNERSHIP			INGRESS/EGRESS OVER
							ACCESS ROAD
		179U		JOHN STOCK & ASSOCIATES,	D 520	341	ROAD EASEMENT
				A PARTNERSHIP			USE OF SERVICE ROAD & RIGHT TO
							INSTALL/MAINTAIN UTILITY LINES
		179V		KOHN, INC. A CORPORATION	D 532	900	ROAD EASEMENT
							INGRESS/EGRESS OVER ACCESS RD.
		179W		KOHN, INC. A CORPORATION	D 532	906	ROAD EASEMENT
							USE OF SERVICE ROAD & RIGHT TO
							INSTALL/MAINTAIN UTILITY LINES
180		# 180A	61	OHIO EDISON COMPANY,	D 320	233	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		180B		STATE OF OHIO	D 320	465	HIGHWAY EASEMENT
							PERPETUAL ROW AND EASEMENT
		180C		STATE OF OHIO	D 399	253	HIGHWAY EASEMENT
							PERPETUAL ROW AND EASEMENT
		180D		THE OHIO BELL TELEPHONE COMPANY	D 413	618	UTILITY EASEMENT
							PERPETUAL ROW AND EASEMENT
							TO INSTALL/MAINTAIN
							COMMUNICATION LINES
		180E		THE BOARD OF COUNTY COMMISSIONERS	D 448	896	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			ROW & EASEMENT FOR
							SANITARY SEWER SYSTEM
		180F		SANDUSKY DEVELOPMENT COMPANY	D 449	331	RESTRICTIONS ON DEED
							BUILDINGS SHALL ONLY BE ONE

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							STORY AND NO TALLER THAN 21 FEET
							DRIVEWAY EASEMENT
		# 180G		FRANCHISE REALTY COMPANY,	D 449	334	UTILITY EASEMENT
				AN ILLINOIS CORPORATION			EASEMENTS FOR INGRESS/EGRESS,
							STORM & SANITARY SEWERS,
							WATER LINE PURPOSES
		# 180H		OHIO EDISON COMPANY,	D 450	541	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		180I		COLUMBIA GAS OF OHIO, INC.	D 532	454	UTILITY EASEMENT
							RIGHT TO LAY PIPELINE & SERVICES
		180J		WESTWOOD MCD TIER I PROPERTIES LLC,	I 201006478		RESTRICTIONS ON DEED
				SERIES SANDUSKY, A DELAWARE			RESTRICT USE OF BUILDINGS ON
				LIMITED LIABILITY COMPANY			CAPTION PROPERTY & COMPANIES
							OPERATING ON CAPTION PROPERTY
181		# 181A	61-62	THE LAKE ERIE POWER & LIGHT COMPANY	MISC 6	585	UTILITY EASEMENT
							POWER LINES
		# 181B		THE TOLEDO EDISON COMPANY,	MISC 7	63	ASSIGNMENT OF EASEMENT
				AN OHIO CORPORATION			
		# 181C		OHIO EDISON COMPANY,	D 261	178	ASSIGNMENT OF EASEMENT
				AN OHIO CORPORATION			
		# 181D		OHIO RAOD (APPEARS AS SUCH ON DEED)	D 188	237	UTILITY EASEMENT
				IMPROVEMENT COMPANY			BLANKET EASEMENT FOR RIGHT
							TO LAY & MAINTAIN GAS LINES
		181E		STATE OF OHIO	D 319	408	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		181F		STATE OF OHIO	D 398	295	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		181G		OHIO EDISON COMPANY,	D 403	437	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR POLES &
							LINES FOR TRANSMISSION OF
							ELECTRICITY
		181H		COLUMBIA GAS OF OHIO, INC.	D 498	730	UTILITY EASEMENT
							GAS PIPE LINE
182	182L1		61	COMMERCIAL LEASE TO CASTLE HILL	OR 258	444	TERM - 20 YEARS WITH 2 ADDITIONAL
				HOLDINGS V, LLC, LIMITED LIABILITY			TEN YEAR TERMS
				COMPANY			
	182L2			COMMERCIAL LEASE TO CASTLE HILL	OR 271	75	MEMORANDUM OF AMENDED AND
				HOLDINGS V, LLC, LIMITED LIABILITY			RESTATED GROUND LEASE
				COMPANY			AGREEMENT
		# 182A		OHIO EDISON COMPANY,	D 320	235	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			
		# 182B		OHIO EDISON COMPANY,	D 320	237	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			

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STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		182C		STATE OF OHIO	D 320	467	HIGHWAY EASEMENT
		182D		STATE OF OHIO	D 398	115	HIGHWAY EASEMENT
		182E		THE OHIO BELL TELEPHONE COMPANY	D 413	621	ELECTRIC ENERGY EASEMENT
		182F		SANDUSKY MALL COMPANY, A LIMITED	D 436	242	INGRESS & EGRESS EASEMENT
				PARTNERSHIP AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		182G		SANDUSKY MALL COMPANY, A LIMITED	D 447	991	AMENDMENT TO EASEMENT
				PARTNERSHIP AND SANMARCO COMPANY,			AGREEMENT
				A LIMITED PARTNERSHIP			
		182H		SANMARCO COMPANY, A LIMITED	D 447	996	AMENDMENT TO RECIPROCAL
				PARTNERSHIP AND SANDUSKY			EASEMENT AGREEMENT
				DEVELOPMENT COMPANY, A LIMITED			
				PARTNERSHIP AND SANDUSKY MALL			
				COMPANY, A LIMITED PARTNERSHIP			
		182I		THE BOARD OF COUNTY COMMISSIONERS	D 448	896	SANITARY SEWER EASEMENT
				OF ERIE COUNTY, OHIO			
		182J		BUCKEYE P H, INC.	D 468	266	BUILDING RESTRICTIONS ON DEED
		# 182K		BUCKEYE P H, INC.	D 468	269	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
		182L		OHIO EDISON COMPANY,	D 471	183	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			BLANKET EASEMENT
183		# 183A	61	OHIO EDISON COMPANY,	D 320	235	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		# 183B		OHIO EDISON COMPANY,	D 320	237	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		183C		STATE OF OHIO	D 320	467	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		183D		STATE OF OHIO	D 398	115	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		183E		THE OHIO BELL TELEPHONE COMPANY	D 413	621	UTILITY EASEMENT
							PERPETUAL ROW AND EASEMENT
							TO INSTALL/MAINTAIN
							COMMUNICATION LINES
		183F		THE BOARD OF COUNTY COMMISSIONERS	D 448	896	SANITARY SEWER EASEMENT
				OF ERIE COUNTY, OHIO			
		183G		THE BROADVIEW SAVINGS AND LOAN	D 450	595	RESTRICTION ON DEED
				COMPANY, AN OHIO CORPORATION			RESTRICT BUILDING TO A ONE STORY
							BUILDING NOT MORE THAN
							21' IN HEIGHT
		# 183H		THE BROADVIEW SAVINGS AND LOAN	D 450	598	INGRESS/EGRESS AND UTILITY
				COMPANY, AN OHIO CORPORATION			EASEMENT FOR STORM SEWER,
							SANITARY SEWER, WATER LINE

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		183I		OHIO EDISON COMPANY,	D 453	531	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
							BLANKET EASEMENT
184		# 184A	61	OHIO EDISON COMPANY,	D 320	233	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		184B		STATE OF OHIO	D 320	465	HIGHWAY EASEMENT
							PERPETUAL ROW & EASEMENT
		184C		THE OHIO FUEL GAS COMPANY	D 345	422	UTILITY EASEMENT
							PIPE LINE W/ SERVICE CONNECTIONS
		184D		STATE OF OHIO	D 399	253	HIGHWAY EASEMENT
							PERPETUAL ROW & EASEMENT
		184E		COLUMBIA GAS OF OHIO, INC.	D 402	740	UTILITY EASEMENT
							PIPE LINE W/ SERVICE CONNECTIONS
		184F		THE OHIO BELL TELEPHONE COMPANY	D 413	618	UTILITY EASEMENT
							PERPETUAL ROW & EASEMENT
							FOR COMMUNICATION LINES
		184G		SANMARCO COMPANY,	D 436	242	INGRESS/EGRESS EASEMENT
				A LIMITED PARTNERSHIP			
		184H		SANDUSKY MALL COMPANY, A LIMITED	D 447	991	AMENDMENT TO EASEMENT
				PARTNERSHIP AND SANMARCO COMPANY,			AGREEMENT
				A LIMITED PARTNERSHIP			CHANGE PROPERTY OF EASEMENT
		184I		SANDUSKY MALL COMPANY, A LIMITED	D 457	480	AMENDMENT TO EASEMENT
				PARTNERSHIP AND SANMARCO COMPANY,			AGREEMENT
				A LIMITED PARTNERSHIP			CHANGE PROPERTY OF EASEMENT
		184J		SANMARCO COMPANY, A LIMITED	D 462	38	AMENDMENT TO EASEMENT
				PARTNERSHIP AND SANDUSKY			AGREEMENT
				DEVELOPMENT COMPANY, A LIMITED			DELEGATE MAINTENANCE
				PARTNERSHIP			RESPONSIBILITY
		184K		SANMARCO COMPANY,	I 200517272		SUPPLEMENTAL AGREEMENT
				A LIMITED PARTNERSHIP			REDEFINE EASEMENT PARAMETERS
		184L		SANDUSKY MALL COMPANY,	D 443	920	RECIPROCAL EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT
							INGRESS/EGRESS ACCESS
		184M		SANMARCO COMPANY, A LIMITED	D 447	996	AMENDMENT TO EASEMENT
				PARTNERSHIP AND SANDUSKY			AGREEMENT
				DEVELOPMENT COMPANY, A LIMITED			CHANGE PROPERTY OF EASEMENT
				PARTNERSHIP			
		184N		SANMARCO COMPANY, A LIMITED	D457	475	AMENDMENT TO EASEMENT
				PARTNERSHIP AND SANDUSKY			AGREEMENT
				DEVELOPMENT COMPANY, A LIMITED			CHANGE PROPERTY OF EASEMENT
				PARTNERSHIP			
		184O		NOT USED			
		184P		THE BOARD OF COUNTY COMMISSIONERS	E 448	896	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			SANITARY SEWER

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R/W DESIGNER JJ

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		# 184Q		FRANCHISE REALTY INTERSTATE	D 449	334	RECIPROCAL EASEMENT
				CORPORATION, AN ILLINOIS CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER
							ACCESS & WATER LINE ACCESS
		184R		OHIO BELL TELEPHONE,	D 450	572	EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT AND ROW
							FOR UNDERGROUND
							COMMUNICATIONS SYSTEM
		# 184S		THE BROADVIEW SAVINGS AND LOAN	D 450	598	RECIPROCAL EASEMENT
				COMPANY, AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS
							& WATER LINE ACCESS
		# 184T		BENNETT ENTERPRISES, INC.	D 459	805	RECIPROCAL EASEMENT
							AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS
							& WATER LINE ACCESS
		# 184U		RAYMOND C. O'DELL, AN INDIVIDUAL	D 466	280	RECIPROCAL EASEMENT
							AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS
							& WATER LINE ACCESS
		# 184V		BUCKEYE PH INC.,	D 468	269	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS
							& WATER LINE ACCESS
		# 184W		COLOR TILE SUPERMART, INC.,	D 480	568	RECIPROCAL EASEMENT
				A COLORADO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS
							& WATER LINE ACCESS
		184X		OHIO EDISON COMPANY,	D482	382	UTILITY EASEMENT
				AN OHIO CORPORATION			2 - 10' WIDE EASEMENTS & ROW
							FOR DISTRIBUTION OF ELECTRICITY
		184Y		COLUMBIA GAS OF OHIO, INC.	D 494	921	UTILITY EASEMENT
				AN OHIO CORPORATION			UNDERGROUND GAS PIPE LINES
							WITH SERVICE CONNECTIONS
		184Z		COLUMBIA GAS OF OHIO, INC.	D 534	583	UTILITY EASEMENT
				AN OHIO CORPORATION			NONEXCLUSIVE EASEMENT FOR
							UNDERGROUND GAS PIPE LINE
							WITH SERVICE CONNECTIONS
		184AA		CRACKER BARREL OLD COUNTRY	I 200112444		EASEMENT
				STORE, A TENNESSEE CORPORATION			INGRESS/EGRESS FOR PEDESTRIAN
							AND VEHICULAR ACCESS
185	185L1		61	COMMERCIAL LEASE TO MCDONALD'S	RN200708577		TERM - 20 YEARS WITH
				USA, LLC, A DELAWARE LIMITED			4 ADDITIONAL 5 YEAR TERMS
				LIABILITY COMPANY			

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
	185L2			COMMERCIAL LEASE TO MCDONALD'S	RN200908151		SUPPLEMENT TO LEASE
				USA, LLC, A DELAWARE LIMITED			
				LIABILITY COMPANY			
		185A		STATE OF OHIO	D 398	115	HIGHWAY EASEMENT
		185B		THE OHIO BELL TELEPHONE COMPANY	D 413	621	ELECTRIC ENERGY EASEMENT
		185C		SANDUSKY MALL COMPANY, A LIMITED	D 436	242	INGRESS AND EGRESS EASEMENT
				PARTNERSHIP AND SANMARCO			
				COMPANY, A LIMITED PARTNERSHIP			
		185D		THE BOARD OF COUNTY COMMISSIONERS	D 448	896	SANITARY SEWER EASEMENT
				OF ERIE COUNTY, OHIO			
		# 185E		BENNETT ENTERPRISES, INC.	D 459	805	RECIPROCAL EASEMENT
							AGREEMENT
		185F		COLUMBIA GAS OF OHIO, INC.	D 532	451	RIGHT OF WAY FOR PIPELINE
186	186L1		61-62	COMMERCIAL LEASE TO CRACKER	RN200112441		TERM - 15 YEARS WITH 3 ADDITIONAL
				BARREL OLD COUNTRY STORE, INC.			5 YEAR TERMS PROVIDED NOTICE
				A TENNESSEE CORPORATION			IS GIVEN AT LEAST ONE YEAR
							PRIOR TO END OF APPLICABLE TERM
	186L2			COMMERCIAL LEASE TO CRACKER	RN200208514		MEMORANDUM OF TERM
				BARREL OLD COUNTRY STORE, INC.			COMMENCEMENT AGREEMENT
				A TENNESSEE CORPORATION			
		186A		STATE OF OHIO	D 398	115	HIGHWAY EASEMENT
		186B		THE OHIO BELL TELEPHONE COMPANY	D 413	621	UTILITY EASEMENT
		186C		SANDUSKY MALL COMPANY, A LIMITED	D 436	242	UTILITY EASEMENT
				PARTNERSHIP AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186D		SANDUSKY DEVELOPMENT COMPANY,	D 443	920	RECIPROCAL EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT
				SANDUSKY MALL COMPANY,			
				A LIMITED PARTNERSHIP			
				AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186E		SANDUSKY MALL COMPANY,	D 447	991	AMENDMENT TO EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT
				AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186F		SANDUSKY DEVELOPMENT COMPANY,	D 447	996	AMENDMENT TO RECIPROCAL
				A LIMITED PARTNERSHIP			EASEMENT AGREEMENT
				SANDUSKY MALL COMPANY,			
				A LIMITED PARTNERSHIP			
				AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186G		THE BOARD OF COUNTY COMMISSIONERS	D 448	896	SANITARY SEWER EASEMENT
				OF ERIE COUNTY, OHIO			
		186H		SANDUSKY DEVELOPMENT COMPANY,	D 457	475	AMENDMENT TO RECIPROCAL
				A LIMITED PARTNERSHIP			EASEMENT AGREEMENT
				SANDUSKY MALL COMPANY,			

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
				A LIMITED PARTNERSHIP			
				AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186I		SANDUSKY MALL COMPANY,	D 457	480	AMENDMENT TO EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT
				AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186J		SANDUSKY DEVELOPMENT COMPANY,	D 462	38	AMENDMENT TO EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT AND AMENDMENT
				SANDUSKY MALL COMPANY,			TO RECIPROCAL EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT
				AND SANMARCO COMPANY,			
				A LIMITED PARTNERSHIP			
		186K		COLUMBIA GAS OF OHIO, INC.,	D 534	583	DEED OF EASEMENT FOR
				AN OHIO CORPORATION			PIPELINE
		186L		SANDUSKY DEVELOPMENT CO.,	RN200517272		SUPPLEMENTAL AGREEMENT
				A LIMITED PARTNERSHIP			
		186M		NOT USED			
		186N		OHIO BELL TELEPHONE COMPANY, AKA	RN200009630		UNDERGROUND TELEPHONE CABLE
				AMERITECH OHIO INC.,			EASEMENT
				AN OHIO CORPORATION			
		186O		CRACKER BARREL OLD COUNTRY	RN200112443		STORM WATER LINE AND TIE-IN
				STORE, INC.			EASEMENT
				A TENNESSEE CORPORATION			
		186P		CRACKER BARREL OLD COUNTRY	RN200112444		EASEMENT AGREEMENT
				STORE, INC.			
				A TENNESSEE CORPORATION			
		186Q		CRACKER BARREL OLD COUNTRY	RN200112445		EASEMENT AGREEMENT
				STORE, INC.			
				A TENNESSEE CORPORATION			
187		# 187A	61-62	OHIO EDISON COMPANY,	D 320	235	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		# 187B		OHIO EDISON COMPANY,	D 320	237	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		187C		STATE OF OHIO	D 320	467	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		187D		STATE OF OHIO	D 398	115	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		187E		THE OHIO BELL TELEPHONE COMPANY	D 413	621	UTILITY EASEMENT
							PERPETUAL ROW AND EASEMENT
							FOR COMMUNICATION LINES
		187F		SANDUSKY MALL COMPANY,	D 443	920	RECIPROCAL EASEMENT
				A LIMITED PARTNERSHIP			AGREEMENT
							INGRESS/EGRESS ACCESS

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		187G		SANDUSKY MALL COMPANY,	D 447	996	AMENDMENT TO RECIPROCAL
				A LIMITED PARTNERSHIP			EASEMENT AGREEMENT
							CHANGE PROPERTY OF EASEMENT
		187H		SANDUSKY MALL COMPANY,	D 457	475	AMENDMENT TO RECIPROCAL
				A LIMITED PARTNERSHIP			EASEMENT AGREEMENT
							CHANGE PROPERTY OF EASEMENT
		187I		SANDUSKY MALL COMPANY,	D 462	38	AMENDMENT TO RECIPROCAL
				A LIMITED PARTNERSHIP			EASEMENT AGREEMENT
							AMENDED TO DELEGATE
							MAINTENANCE RESPONSIBILITY
		187J		THE BOARD OF COUNTY COMMISSIONERS	D 448	896	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			SANITARY SEWER
		187K		OHIO BELL TELEPHONE COMPANY,	D 450	572	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT AND ROW
							FOR UNDERGROUND
							COMMUNICATIONS SYSTEM
		# 187L		THE BROADVIEW SAVINGS AND LOAN,	D 450	598	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS,
							AND WATER LINE ACCESS
		# 187M		BENNETT ENTERPRISES, INC.	D 459	805	RECIPROCAL EASEMENT
							AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS,
							AND WATER LINE ACCESS
		# 187N		SAMBO'S OF OHIO, INC.	D 463	947	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS,
							AND WATER LINE ACCESS
		# 187O		SAMBO'S OF OHIO, INC.	D 463	962	AMENDMENT TO RECIPROCAL
				AN OHIO CORPORATION			EASEMENT AGREEMENT
							CHANGE PROPERTY OF EASEMENT
		# 187P		COLOR TILE SUPERMART, INC.,	D 480	568	RECIPROCAL EASEMENT
				A COLORADO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS,
							AND WATER LINE ACCESS
		187Q		OHIO EDISON COMPANY,	D 482	382	UTILITY EASEMENT
				AN OHIO CORPORATION			2 - 10' WIDE EASEMENTS AND ROW
							FOR DISTRIBUTION OF ELECTRICITY
		# 187R		THE FIRESTONE TIRE & RUBBER COMPANY,	D 510	103	COVENANTS, CONDITIONS AND
				AN OHIO CORPORATION			RESTRICTIONS AGREEMENT
		187S		THE FIRESTONE TIRE & RUBBER COMPANY,	D 510	123	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS,
							AND WATER LINE ACCESS

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		187T		COLUMBIA GAS OF OHIO, INC.,	D 534	583	UTILITY EASEMENT
				AN OHIO CORPORATION			NONEXCLUSIVE EASEMENT FOR
							UNDERGROUND GAS PIPELINE
							AND SERVICE CONNECTIONS
		187U		CRACKER BARREL OLD COUNTRY	I 200112443		UTILITY EASEMENT
				STORE, INC.			STORM WATER LINE & TIE IN
				A TENNESSEE CORPORATION			
		187V		CRACKER BARREL OLD COUNTRY	I 200112444		INGRESS/EGRESS EASEMENT
				STORE, INC.			
				A TENNESSEE CORPORATION			
		187W		CRACKER BARREL OLD COUNTRY	I 200112445		UTILITY EASEMENT
				STORE, INC.			WATERLINE & TIE IN
				A TENNESSEE CORPORATION			
		187X		COLUMBIA GAS OF OHIO, INC.,	I 200800202		UTILITY EASEMENT
				AN OHIO CORPORATION			PIPELINES & APPURTENANT EQUIP.
188		188A	62	THE OHIO FUEL GAS COMPANY	D 344	573	UTILITY EASEMENT
		188B		THE OHIO FUEL GAS COMPANY	D 431	791	EXTINGUISHMENT OF EASEMENT
		188C		THE OHIO FUEL GAS COMPANY	D 344	591	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		188D		COLUMBIA GAS OF OHIO, INC.,	D 353	618	ASSIGNMENT
				AN OHIO CORPORATION			(V.344, P.573)
							(V.344, P.591)
		188E		NOT USED			
		188F		STATE OF OHIO	D 396	41	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		188G		STATE OF OHIO	D 399	13	HIGHWAY EASEMENT
							PERPETUAL EASEMENT AND ROW
		# 188H		SAMBO'S OF OHIO, INC.	D 463	947	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER,
							SANITARY SEWER
		# 188I		SAMBO'S OF OHIO, INC.	D 463	962	AMENDMENT TO RECIPROCAL
				AN OHIO CORPORATION			EASEMENT AGREEMENT
		# 188J		THE FIRESTONE TIRE & RUBBER COMPANY,	D 510	103	UTILITY EASEMENT
				AN OHIO CORPORATION			
		188K		THE FIRESTONE TIRE & RUBBER COMPANY,	D 510	123	RECIPROCAL EASEMENT
				AN OHIO CORPORATION			AGREEMENT
							INGRESS/EGRESS, STORM SEWER
							ACCESS, SANITARY SEWER ACCESS,
							AND WATER LINE ACCESS
189		189A	62	STATE OF OHIO	D 396	41	HIGHWAY EASEMENT

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		189B		THE OHIO BELL TELEPHONE COMPANY	D 413	627	COMMUNICATION EASEMENT
190	190L1		62	COMMERCIAL LEASE TO CHI CHI'S OF	L 41	476	TERM - 22 YEARS WITH A
				OHIO, INC., A KENTUCKY CORPORATION			PROVISION FOR 4 EXTENSION
							TERMS OF 5 YEARS EACH
		# 190A		THE SANDUSKY INTERURBAN ELECTRIC	MISC 1	217	RAILWAY EASEMENT
				RAILWAY COMPANY			
		190B		OHIO EDISON COMPANY,	D 402	122	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		190C		STATE OF OHIO	D 426	546	HIGHWAY EASEMENT
		# 190D		OHIO EDISON COMPANY,	D 456	344	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		190E		THE OHIO BELL TELEPHONE COMPANY	D 506	934	UTILITY EASEMENT
							PERPETUAL EASEMENT AND ROW
							FOR COMMUNICATIONS SYSTEMS
		190F		CHI CHI'S OF OHIO, INC.	D 517	499	ROAD EASEMENT
				A KENTUCKY CORPORATION			INGRESS/EGRESS
							OVER ACCESS ROAD
		190G		CHI CHI'S OF OHIO, INC.	D 517	493	ROAD EASEMENT
				A KENTUCKY CORPORATION			USE OF SERVICE ROAD & RIGHT TO
							INSTALL & MAINTAIN UTILITY LINES
		190H		THE BOARD OF COUNTY COMMISSIONERS	I 200008568		UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			SANITARY SEWER
		190I		S&S REALTY, AN OHIO PARTNERSHIP	I 200003101		UTILITY EASEMENT
							ALLOW ABUTTING PROPERTY
							OWNERS TO CONNECT TO
							SANITARY SEWER LINE
191	191L1		62	COMMERCIAL LEASE TO BEF REIT, INC.,	I 200003100		TERM - 11 YEARS WITH THE OPTION
				AN OHIO CORPORATION			TO EXTEND FOR 4 SUCCESSIVE
							PERIODS OF 5 YEARS EACH
		# 191A		THE LAKE ERIE POWER & LIGHT COMPANY	MISC 6	585	UTILITY EASEMENT
							POWER LINES
		# 191B		THE TOLEDO EDISON COMPANY,	MISC 7	63	ASSIGNMENT OF EASEMENT
				AN OHIO CORPORATION			
		# 191C		OHIO EDISON COMPANY,	D 261	178	ASSIGNMENT OF EASEMENT
				AN OHIO CORPORATION			
		# 191D		OHIO RAOD (APPEARS AS SUCH ON DEED)	D 188	237	UTILITY EASEMENT
				IMPROVEMENT COMPANY			BLANKET EASEMENT FOR GAS PIPES
		191E		STATE OF OHIO	D 398	295	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		191F		OHIO EDISON COMPANY,	D 403	437	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT & ROW FOR POLES &
							LINES FOR TRANSMISSION OF

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PID NO. 88407

STATE JOB NO. 43809

R/W DESIGNER JJ

R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

ERI-250-0.00

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							ELECTRICITY
		191G		COLUMBIA GAS OF OHIO, INC.	D 498	730	UTILITY EASEMENT
							GAS LINE
		191H		THE WAGNER QUARRIES COMPANY,	I 200003101		UTILITY EASEMENT
				AN OHIO CORPORATION,			GRANT ACCESS TO SANITARY SEWER
				BEF REIT, INC.,			EASEMENT NOT ON CAPTION
				AN OHIO CORPORATION,			PROPERTY
		191I		BEF REIT, INC.,	I 200003102		UTILITY EASEMENT
				AN OHIO CORPORATION,			USE OF ACCESS DRIVE
							EASEMENT NOT ON CAPTION
							PROPERTY
		191J		THE BOARD OF COUNTY COMMISSIONERS	I 200008062		RESOLUTION
				OF ERIE COUNTY, OHIO			SANITARY SEWER TAP PERMIT
							AGREEMENT
		191K		THE BOARD OF COUNTY COMMISSIONERS	I 200008063		UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			ATTACH TO COUNTY SEWER SYSTEM
192		192A	62	STATE OF OHIO	D 398	129	HIGHWAY EASEMENT
		192B		THE OHIO BELL TELEPHONE COMPANY	D 413	630	COMMUNICATION EASEMENT
		192C		COLUMBIA GAS OF OHIO, INC.	D 510	94	PIPELINE EASEMENT
		# 192D		FIRESTONE TIRE & RUBBER COMPANY	D 510	123	RECIPROCAL EASEMENT
							AGREEMENT
193		193A	62	STATE OF OHIO	D 396	41	HIGHWAY EASEMENT
		193B		STATE OF OHIO	D 398	129	HIGHWAY EASEMENT
		193C		THE OHIO BELL TELEPHONE COMPANY	D 413	627	COMMUNICATION EASEMENT
		193D		THE OHIO BELL TELEPHONE COMPANY	D 413	630	COMMUNICATION EASEMENT
		193E		SAMBO'S OF OHIO, INC.	D 463	962	RECIPROCAL EASEMENT
							AGREEMENT
		# 193F		COLOR TILE SUPERMART, INC.	D 480	568	RECIPROCAL EASEMENT
							AGREEMENT
		# 193G		OHIO EDISON TELEPHONE COMPANY	D 482	160	COMMUNICATION EASEMENT
		# 193H		LAKE ERIE POWER & LIGHT COMPANY	MISC 6	411	ELECTRIC POWER EASEMENT
		# 193I		OHIO EDISON COMPANY	D 261	178	ASSIGNMENT OF EASEMENT
							RIGHTS
196		196A	62	THE OHIO FUEL GAS COMPANY	D 344	587	PIPELINE EASEMENT
		196B		STATE OF OHIO	D 399	749	HIGHWAY EASEMENT
		196C		OHIO EDISON COMPANY	D 567	352	ELECTRIC ENERGY EASEMENT
				AN OHIO CORPORATION			
		196D		COLUMBIA GAS OF OHIO, INC.	D 568	105	PIPELINE EASEMENT

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		196E		BUCKETE CABLEVISON, INC	I 201209005		UTILITY EASEMENT
198		198A	62	STATE OF OHIO	D 398	125	HIGHWAY EASEMENT
		198B		THE OHIO BELL TELEPHONE COMPANY	D 413	521	COMMUNICATION EASEMENT
		198C		COLUMBIA GAS OF OHIO, INC.	D 568	99	PIPELINE EASEMENT
		198D		CAM ALLISON SHENIGO	OR 397	470	INGRESS/EGRESS EASEMENT
				C/O SHENIGO CONSTRUCTION			
200		# 200A	62	LAKE ERIE POWER & LIGHT COMPANY	MISC 6	411	ELECTRIC ENERGY
		# 200B		OHIO EDISON COMPANY	D 261	178	ASSIGNMENT OF EASEMENT RIGHTS
		200C		ERCO HOMES, INC	D 198	157	UTILITY & SEWER LINE
		200D		BERQUIST-SCHAFER	OR 397	475	INGRESS & EGRESS
202		202A	62	THE OHIO FUEL GAS COMPANY	D 344	607	RIGHT OF WAY FOR GAS LINE
							BLANKET WITHIN ROAD RIGHT OF WAY
		202B		THE OHIO FUEL GAS COMPANY	D 344	609	RIGHT OF WAY FOR GAS LINE
							BLANKET WITHIN ROAD RIGHT OF WAY
		202C		STATE OF OHIO	D 398	665	EASEMENT FOR HIGHWAY PURPOSES
		202D		COLUMBIA GAS OF OHIO, INC	D 402	65	EASEMENT FOR HIGHWAY PURPOSES
		202E		THE OHIO BELL TELEPHONE COMPANY	D 413	515	EASEMENT FOR COMMUNICATIONS
		# 202F		THE OHIO FUEL GAS COMPANY	D 490	219	EASEMENT FOR ELECTRICAL DIST.
204		204A	62	STATE OF OHIO	D 399	256	EASEMENT FOR HIGHWAY PURPOSES
		N/A		STATE OF OHIO	D 399	259	EASEMENT FOR HIGHWAY PURPOSES
		# 204C		ERIE WOODS DEVELOPMENT CO., INC	D 538	454	ACCESS EASEMENT AGREEMENT
		# 204D		ERIE WOODS DEVELOPMENT CO., INC	D 542	521	ACCESS EASEMENT AGREEMENT
		204E		OHIO BELL TELEPHONE COMPANY	D 550	841	EASEMENT FOR COMMUNICATIONS
		N/A		THE OHIO BELL TELEPHONE COMPANY	D 557	897	EASEMENT FOR COMMUNICATIONS
		204G		THE OHIO BELL TELEPHONE COMPANY	D 558	433	COMMUNICATIONS EASEMENT
205		# 205A	62-63	THE LAKE ERIE POWER & LIGHT CO	MISC 6	585	ELECTRIC UTILITY EASEMENT
		# 205B		THE TOLEDO EDISON COMPANY	MISC 7	63	ASSIGNMENT OF EASEMENT
		# 205C		OHIO EDISON COMPANY	D 261	178	ASSIGNMENT OF EASEMENT
		# 205D		OHIO ROAD IMPROVEMENT COMPANY	D 188	237	GAS UTILTIY EASEMENT
							BLANKET EASEMENT
		205E		STATE OF OHIO	D 398	295	HIGHWAY EASEMENT

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DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530

PID NO. 88407

STATE JOB NO. 438009

R/W DESIGNER JJ

R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

ERI-250-0.00

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		205F		OHIO EDISON COMPANY	D 403	437	ELECTRIC UTILITY EASEMENT
		# 205G		OHIO EDISON COMPANY	D 557	17	ELECTRIC UTILITY EASEMENT
		205H		WAGNER DEVELOPMENT, LLC	RN 200314602		RESTRICTION ON DEED
206		206A	62-63	COUNTY OF ERIE	D 295	149	EASEMENT FOR HIGHWAY PURPOSES
		206B		COUNTY OF ERIE	D 297	56	EASEMENT FOR HIGHWAY PURPOSES
		206C		THE OHIO FUEL GAS COMPANY	D 344	599	ROADSIDE RIGHT OF WAY PIPELINE
		206D		STATE OF OHIO	D 397	859	EASEMENT FOR HIGHWAY PURPOSES
		206E		COLUMBIA GAS OF OHIO	D 402	748	ROADSIDE RIGHT OF WAY PIPELINE
		206F		THE OHIO BELL TELEPHONE COMPANY	D 413	512	EASEMENT FOR COMMUNICATIONS
		206G		THE OHIO BELL TELEPHONE COMPANY	D 556	710	EASEMENT FOR COMMUNICATIONS
		206H		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO	RN 9915297		EASEMENT FOR WATER MAIN AND SANITARY SEWER
		# 206I		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO	RN 9919000		EASEMENT FOR WATER MAIN AND SANITARY SEWER
		206J		STEAK 'N SHAKE , INC	RN 9901273		NONEXCLUSIVE STORM WATER DRAINAGE & DETENTION POND EASEMENT AGREEMENT
		206K		STEAK 'N SHAKE, INC	RN 9901274		NONEXCLUSIVE UNDERGROUND SANITARY SEWER EASEMENT AGREEMENT
		206L		BLACK BEAR LODGE, LLC	RN 9914996		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
		206M		BLACK BEAR LODGE, LLC	RN 9914997		NONEXCLUSIVE STORM WATER DRAINAGE & DETENTION POND EASEMENT AGREEMENT
		206N		BLACK BEAR LODGE, LLC	RN 9914998		NONEXCLUSIVE UNDERGROUND SANITARY SEWER EASEMENT AGREEMENT
		206O		NOT USED			
207	207L1		63	BETWEEN HOWARD GROSS & KATHY GROSS & STEAK 'N SHAKE OPERATIONS	RN 200104603		18 YRS, 4 ADDITIONAL SUCCESIVE TERMS OF 5 YRS BLANKET WITHIN ROAD RIGHT OF WAY
		207A		THE OHIO BELL TELEPHONE COMPANY	D 301	212	EASEMENT FOR COMMUNICATIONS
		207B		THE OHIO FUEL GAS COMPANY	D 344	561	RIGHT OF WAY FOR GAS LINE BLANKET WITHIN ROAD RIGHT OF WAY
		207C		COLUMBIA GAS OF OHIO, INC	OR 301	166	MODIFICATION OF RIGHT OF WAY
		207D		COLUMBIA GAS OF OHIO, INC	D 402	748	RIGHT OF WAY FOR GAS PIPELINE
		207E		THE OHIO BELL TELEPHONE COMPANY	D 413	539	EASEMENT FOR COMMUNICATIONS
		# 207F		OHIO EDISON COMPANY	D 421	706	OHIO EDISON COMPANY
		207G		MEIJER STORES LIMITED PERTNERSHIP	RN 200205693		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
208		208A	63	THE OHIO BELL TELEPHONE COMPANY	D 301	212	EASEMENT FOR COMMUNICATIONS
		# 208B		COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 343	222	EASEMENT FOR WATER MAIN
		208C		THE OHIO FUEL GAS COMPANY	D 344	561	ROADSIDE RIGHT OF WAY PIPELINE BLANKET WITHIN ROAD RIGHT OF WAY
		208D		MEIJER, INC.	OR 301	166	MODIFICATION OF RIGHT OF WAY
		208E		COLUMBIA GAS OF OHIO, INC	D 353	618	ASSIGNMENT OR PREVIOUS
		208F		STATE OF OHIO	D 399	400	EASEMENT FOR HIGHWAY PURPOSES
		208G		STATE OF OHIO	D 399	403	EASEMENT FOR HIGHWAY PURPOSES
		208H		STATE OF OHIO	D 400	69	EASEMENT FOR HIGHWAY PURPOSES
		208I		COLUMBIA GAS OF OHIO, INC	D 402	748	ROADSIDE RIGHT OF WAY PIPELINE
		208J		THE OHIO BELL TELEPHONE COMPANY	D 413	539	EASEMENT FOR COMMUNICATIONS
		# 208K		OHIO EDISON COMPANY	D 421	706	EASEMENT FOR ELECTRIC DIST.
		208L		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 562	904	EASEMENT FOR WATER MAIN
		# 208M		OHIO EDISON COMPANY	OR 176	840	EASEMENT FOR ELECTRIC DIST.
		208N		OHIO EDISON COMPANY	OR 192	655	NONEXCLUSIVE UTILITY EASEMENT
		# 208O		OHIO EDISON COMPANY	OR 221	488	NONEXCLUSIVE UTILITY EASEMENT
		208P		STEAK 'N SHAKE, INC	RN 9901272		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
		208Q		STEAK 'N SHAKE, INC	RN 9901273		NON EXCLUSIVE STORM WATER DRAINAGE & DETENTION POND EASEMENT AGREEMENT
		208R		STEAK 'N SHAKE, INC	RN 9901274		NONEXCLUSIVE UNDERGROUND SANITARY SEWER EASEMENT AGREEMENT
		208S		STEAK 'N SHAKE, INC	RN 9901275		NONEXCLUSIE UNDERGROUND WATER LINE EASEMENT
		208T		BLACK BEAR LODGE, LLC	RN 9914996		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
		208U		BLACK BEAR LODGE, LLC	RN 9914997		NONEXCLUSIVE STORM WATER DRAINAGE & DETENTION POND EASEMENT AGREEMENT
		208V		BLACK BEAR LODGE, LLC	RN 9914998		NONEXCLUSIVE UNDERGROUND SANITARY SEWER EASEMENT

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FEDERAL PROJECT NO. E-100530

PID NO. 88407

STATE JOB NO. 43009

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							AGREEMENT
		208W		BLACK BEAR LODGE, LLC	RN 200205693		NONEXCLUSIVE DRIVEWAY ACCESS
							EASEMENT AGREEMENT
		208X		SCHUSTER VENTRUES, LLC	RN 200205694		NONEXCLUSIVE STORM WATER
							DRAINAGE & DETENTION POND
							EASEMENT AGREEMENT
		208Y		SCHUSTER VENTURES, LLC	RN 200205695		NONEXCLUSIVE SANITARY SEWER
							LINE EASEMENT AGREEMENT
		208Z		SCHUSTER VENTURES, LLC	RN 200205696		NONEXCLUSIVE UTILITY EASEMENT
							AGREEMENT
		208AA		HARBOUR LAGOONS, LTD	RN 200313715		NONEXCLUSIVE DRIVEWAY ACCESS
							EASEMENT AGREEMENT
		208AB		HARBOUR LAGOONS, LTD	RN 200411724		NONEXCLUSIVE DRIVEWAY ACCESS
							EASEMENT AGREEMENT
		208AC		4920 MILAN INVESTMENTS, LTD	RN 200608673		NONEXCLUSIVE STORM WATER
							DISCHARGE AGREEMENT
		208AD		HOTY MD, LTD	RN 200609878		NONEXCLUSIVE STORM WATER
							DISCHARGE AGREEMENT
		208AE		HOTY MD, LTD	RN 200609879		FIRST AMENDMENT TO NONEXCLUSIVE
							DRIVEWAY ACCESS EASEMENT
		# 208AF		HOTY MD, LTD	RN 200811393		FIRST AMENDMENT TO NONEXCLUSIVE
							STORM WATER DISCHARGE
							AGREEMENT
		208AG		HOTY MD, LTD	RN 200811394		FIRST AMENDMENT TO NONEXCLUSIVE
							STORM WATER DISCHARGE
209		209A	63	THE OHIO BELL TELEPHONE COMPANY	D 301	212	EASEMENT FOR COMMUNICATIONS
		209B		THE OHIO FUEL GAS COMPANY	D 344	561	RIGHT OF WAY FOR GAS LINE
							BLANKET WITHIN ROAD RIGHT OF WAY
		209C		COLUMBIA GAS OF OHIO, INC	OR 301	166	MODIFICATION OF RIGHT OF WAY
		209D		COLUMBIA GAS OF OHIO, INC	D 402	748	RIGHT OF WAY FOR GAS LINE
		209E		THE OHIO BELL TELEPHONE COMPANY	D 413	539	EASEMENT FOR COMMUNICATIONS
		# 209F		OHIO EDISON COMPANY	D 421	706	EASEMENT FOR ELECTRIC DIST.
		# 209G		J. RAY SEIDEL & RUTH A. SEIDEL	D 481	311	RAILWAY RIGHT OF WAY
		209H		MEIJER STORES LIMITED PARTNERSHIP & SCHUSTER VENTURES, LLC	RN 200205693		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
		209I		ERIE COUNTY CABLEVISION, INC	RN 200713809		EASEMENT & RIGHT OF WAY
							AGREEMENT
							BLANKET EASEMENT
210		210A	63	THE OHIO FUEL GAS COMPANY	D 344	561	PIPELINE RIGHT OF WAY
							BLANKET WITHIN ROAD RIGHT OF WAY

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		210B		COLUMBIA GAS OF OHIO, INC & MEIJER, INC	OR 301	166	MODIFICATION OF RIGHT OF WAY
		# 210C		OHIO EDISON COMPANY	D 421	706	EASEMENT FOR ELECTIRC DIST.
		210D		OHIO EDISON COMPANY	OR 192	655	UTILITY EASEMENT
							NONEXCLUSIVE SANITARY SEWER
		210E		CATAWBA ROAD CCOMPANY, LLC	RN 200213894		LINE EASEMENT AGREEMENT
							NONEXCLUSIVE DRIVEWAY ACCESS
		210F		MEIJERSTORES LIMITED PARTNERSHIP	RN 200609878		EASEMENT
							NONEXCLUSIVE STORM SEWER
		210G		MEIJER STORES LIMITED PARTNERSHIP	RN 200609879		DISCHARGE AGREEMENT
							FIRST AMENDMENT TO NONEXCLUSIVE
		# 210H		HOTY MTD, LTD	RN 200811393		DRIVEWAY ACCESS EASEMENT
							FIRST AMENDMENT TO NONEXCLUSIVE
		210I		HOTY MTD, LTD	RN 200811394		STORM WATER DISCHARGE AGREEMENT
211		211A	63	THE WAGNER QUARRIES COMPANY	D 303	21	RESTRICTIONS ON DEED
		211B		STATE OF OHIO	D 397	164	HIGHWAY EASEMENT
		211C		OHIO EDISON COMPANY	D 403	262	UTILITY EASEMENT
		211D		OHIO EDISON COMPANY	OR 174	222	UTILITY EASEMENT
		211E		PERKINS LAND INVESTMENTS, LTD	RN 200517443		DRIVEWAY EASEMENT
212	212L1		63-64	BETWEEN HOTY ENTERPRISES INC & SUBWAY REAL ESTATE CORP.	RN 200216224		5 YRS WITH 3 RENEWAL PERIODS OF 5 YRS EACH
	# 212L2			BETWEEN HARBOUR LAGOONS, LTD & OUTBACK/CLEVELNAD II	RN 200304223		10 YRS WITH 4 CONSECUTIVE 5 YR RENEWAL OPTIONS
	212L3			BETWEEN 4920 MILAN INVESTMENTS & 4918 MILAN INVESTMENTS, LTD	RN 200316288		40 YRS COMMENCING 7/1/2004
		# 212A		RICHARD J. WOBSER & RUTH E. WOBSER	D 250	325	RAILWAY RIGHT OF WAY
		# 212B		THE OHIO FUEL GAS COMPANY	D 344	613	GAS LINE EASEMENT
		# 212C		COLUMBIA GAS OF OHIO, INC	D 353	618	ASSIGNEMENT OF PREVIOUS
		212D		COLUMBIA GAS OF OHIO, INC	D 344	660	ROADSIDE RIGHT OF WAY PIPELINE
		212E		THE OHIO BELL TELEPHONE COMPANY	D 556	463	EASEMENT FOR COMMUNICATIONS
		212F		THE OHIO BELL TELEPHONE COMPANY	D 557	817	EASEMENT MODIFICATION AGREEMENT
		212G		B.A.D. BOYS, LTD	RN 200319281		DRAINAGE EASEMENT
		212H		4920 MILAN INVESTMENTS, LTD	RN 200319282		DRIVEWAY EASEMENT
		212I		4920 MILAN INVESTMENTS, LTD	RN 201000927		AMENDED & RESTATED DRIVEWAY

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							EASEMENT
		212J		COLUMBIA GAS OF OHIO, INC	RN 200322714		EASEMENT FOR GAS PIPELINE
		212K		MEIJER STORES LIMITED PARTNERSHIP	RN 200313715		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
		212L		HARBOUR LAGOONS LTD	RN 200411724		NONEXCLUSIVE DRIVEWAY ACCESS EASEMENT AGREEMENT
		212M		4920 MILAN INVESTMENTS	RN 200500353		SANITARY SEWER LINE EASEMENT
		212N		4920 MILAN INVESTMENTS	RN 200500354		GAS LINE EASEMENT
		212O		4920 MILAN INVESTMENTS	RN 200608673		NONEXCLUSIVE STORM WATER DISCHARGE AGREEMENT
214		214A	63-64	THE STATE OF OHIO	D 396	758	HIGHWAY EASEMENT
		214B		THE STATE OF OHIO	D 397	684	HIGHWAY EASEMENT
		214C		OHIO EDISON COMPANY	D 402	503	UTILITY EASEMENT
		214D		OHIO EDISON COMPANY	D 402	665	UTILITY EASEMENT
		214E		STATE OF OHIO	D 398	119	HIGHWAY EASEMENT
		214F		OHIO EDISON COMPANY	D 402	505	UTILITY EASEMENT
215		215A	64	THE WAGNER QUARRIES COMPANY	D 244	224	RESTRICTIONS ON DEED
		215B		STATE OF OHIO	D 399	752	EASEMENT FOR HIGHWAY PURPOSES
		215C		OHIO EDISON COMPANY	D 402	603	ELECTRIC UTILITY EASEMENT
		215D		COLUMBIA GAS OHIO, INC	D 520	584	GAS UTILITY EASEMENT
217		217A	64	STATE OF OHIO	D 401	109	HIGHWAY EASEMENT & TEMPORARY EASEMENT
		217B		OHIO EDISON COMPANY	D 402	507	ELECTRIC UTILITY EASEMENT
		217C		OHIO EDISON COMPANY	D 402	597	ELECTRIC UTILITY EASEMENT
		217D		STATE OF OHIO	D 423	104	HIGHWAY EASEMENT & TEMPORARY EASEMENT
		217E		COLUMBIA GAS OF OHIO INC	D 514	155	GAS UTILITY EASEMENT
		217F		COLUMBIA GAS OF OHIO INC	D 517	429	GAS UTILITY EASEMENT
		217G		COLUMBIA GAS OF OHIO INC	D 521	130	GAS UTILITY EASEMENT
218	218L1		63-64	BETWEEN 4920 MILAN INVESTMENTS, LTD & 4918 MILAN INVESTMENTS, LTD	RN 200316288		40 YRS COMMENCING 7/1/2004
		218A		THE OHIO PUBLIC SERVICE COMPANY	MISC 4	4	EASEMENT FOR ELECTRIC TRANS.
		# 218B		STATE OF OHIO	D 144	310	EASEMENT FOR SEWER PURPOSES
		218C		STATE OF OHIO	D 144	221	EASEMENT FOR HIGHWAY PURPOSES
		218D		STATE OF OHIO	D 317	448	EASEMENT FOR HIGHWAY PURPOSES
		# 218E		THE OHIO FUEL GAS COMPANY	D 344	613	GAS LINE EASEMENT
		218F		COLUMBIA GAS OF OHIO, INC	D 353	618	ASSIGNMENT OF 218 E
		218G		COLUMBIA GAS OF OHIO, INC	D 344	660	ROADSIDE RIGHT OF WAY PIPELINE
		218H		WILLIAM L. EDMONDS & LYNN B. EDMONDS	D 542	166	ACCESS EASEMENT AGREEMENT
		218I		W.L.E. PROPERTIES INC	OR 8	609	AMENDMENT TO ACCESS EASEMENT AGREEMENT
		218J		THE OHIO BELL TELEPHONE COMPANY	D 556	463	COMMUNICATION SYSTEM EASEMENT
		218K		THE OHIO BELL TELEPHONE COMPANY	D 557	817	EASEMENT MODIFICATION AGREEMENT
		218L		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 566	294	EASEMENT FOR WATER MAIN
		218M		PASTA PROPERTIES, INC	OR 346	143	EASEMENT AGREEMENT
		218N		PASTA PROPERTIES, INC	OR 362	562	EASEMENT AGREEMENT
		218O		B.A.D. BOYS LTD	RN 200319282		DRIVEWAY EASEMENT
		218P		THE OHIO BELL TELEPHONE COMPANY	RN 200416605		EASEMENT AGREEMENT
		218Q		B.A.D. BOYS LTD	RN 200500353		SANITARY SEWER LINE EASEMENT
		218R		B.A.D. BOYS LTD	RN 200500354		GAS LINE EASEMENT
		N/A		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	RN 201008862		BURIED ELECTRICAL POWER LINE
219	219L1		64	BETWEEN DAVID DEEHR, ET AL & HART ADVERTISING, INC	RN 200804634		10 YRS COMMENCING 10/1/2008 & ENDING 10/1/2018 WITH A 10 YR RENEWAL PERIOD BLANKET LEASE
		219A		THE OHIO PUBLIC SERVICE COMPANY	MISC 4	56	UTILITY EASEMENT
		219B		THE STATE OF OHIO	D 396	254	HIGHWAY EASEMENT
		219C		THE STATE OF OHIO	D 399	129	HIGHWAY EASEMENT
		219D		OHIO EDISON COMPANY	D 402	120	ELECTRIC UTILITY EASEMENT
		219E		OHIO EDISON COMPANY	D 402	509	ELECTRIC UTILITY EASEMENT
220	220L1		64	BETWEEN SAMM PROPERTIES, LTD & SPRINTCOM, INC	RN 200104430		5 YRS 4 ADDITIONAL 5 YR EXTENSION
	220L2			BETWEEN SAMM PROPERTIES, LTD & SPRINTCOM, INC	RN 200513738		5 YRS 4 ADDITIONAL 5 YR EXTENSION
	220L3			BETWEEN SPRINTCOM, INC & STC TWO LLC	RN 200514067		ASSIGNMENT OF LEASE

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REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
	220L4			SAMM PROPERTIES, LTD & STC TWO LLC	RN 201004711		MEMORANDUM AGREEMENT
		220A		THE OHIO PUBLIC SERVICE COMPANY	MISC 4	4	EASEMENT FOR ELECTRIC TRANS.
		# 220B		STATE OF OHIO	D 144	310	EASEMENT FOR SEWER PURPOSES
		220C		STATE OF OHIO	D 144	221	EASEMENT FOR HIGHWAY PURPOSES
		220D		STATE OF OHIO	D 317	448	EASEMENT FOR HIGHWAY PURPOSES
		# 220E		THE OHIO FUEL GAS COMPANY	D 344	613	GAS LINE EASEMENT
		# 220F		COLUMBIA GAS OF OHIO, INC	D 353	618	ASSIGNMENT OF 220E
		220G		COLUMBIA GAS OF OHIO, INC	D 344	660	ROADSIDE RIGHT OF WAY PIPELINE
		220H		PORT LAWRENECE AGENCY, INC	D 542	166	ACCESS EASEMENT AGREEMENT
		220I		PORT LAWRENECE AGENCY, INC	OR 8	609	MODIFICATION ACCESS EASEMENT AGGREMENT
		220J		THE OHIO BELL TELEPHONE COMPANY	D 556	463	COMMUNICATION SYSTEM EASEMENT
		220K		THE OHIO BELL TELEPHONE COMPANY	D 557	817	EASEMENT MODIFICATION AGREEMENT
		220L		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 566	294	EASEMENT FOR WATER MAIN
		220M		THE PORT LAWRENCE TITLE & TRUST CO	OR 6	260	INGRESS & EGRESS
		220N		THE PORT LAWRENCE TITLE & TRUST CO	OR 9	780	INGRESS & EGRESS
		220O		SANDUSKY CENTER PARTNERS	OR 13	363	AMENDMENT TO EASEMENT & OPERATING RESTRICTION AGREEMENT
221		221A	64	SANDUSKY CENTER PARTNERS	D 557	274	EASEMNET FOR STORM SEWER
		221B		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 567	531	WATER LINE EASEMENT
		221C		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 563	10	EASEMENT FOR WATER TOWER
223		223A	64	THE OHIO BELL TELEPHONE COMPANY	D557	882	COMMUNICATION EASEMENT
		223B		TOYS "R" US-OHIO, INC. AN OHIO CORPORATION, SUCCESSOR IN INTEREST TO TOYS "R" US, INC., A DELAWARE CORPORATION	OR 13	871	RECIPROCAL EASEMENT OPERATION AGREEMENT
		223C		TOYS "R" US-OHIO, INC. AN OHIO CORPORATION, SUCCESSOR IN INTEREST TO TOYS "R" US, INC., A DELAWARE CORPORATION	OR 216	213	AMENDMENT TO RECIPROCAL EASEMENT AND OPERATION AGREEMENT
		223D		PASTA PROPERTIES, INC., AN OHIO CORPORATION	OR346	143	EASEMENT AGREEMENT
		223E		TRU OHIO PROPERTIES, INC., A DELAWARE CORPORATION ("TOYS")	OR360	946	SECOND AMENDMENT TO RECIPROCAL EASEMENT AND OPERATION AGREEMENT
		223F		PASTA PROPERTIES, INC., AN OHIO CORPORATION	OR362	562	EASEMENT AGREEMENT
		223G		PASTA PROPERTIES, INC., AN OHIO CORPORATION	OR362	569	ASSUMPTION AGREEMENT
224		224A	64	THE OHIO PUBLIC SERVICE COMPANY, A CORPORATION	MISC4	33	UTILITY EASEMENT EASEMENT AND ROW FOR TRANSMISSION OF ELECTRICITY
		224B		OHIO EDISON COMPANY AN OHIO CORPORATION	D402	511	UTILITY EASEMENT PERPETUAL EASEMENT FOR TRANSMISSION OF ELECTRIC CURRENT WITH INGRESS/EGRESS
		224C		STATE OF OHIO	D425	252	HIGHWAY EASEMENT
		# 224D		OHIO EDISON COMPANY AN OHIO CORPORATION	D550	504	UTILITY EASEMENT PERPETUAL EASEMENT FOR TRANSMISSION OF ELECTRIC CURRENT WITH INGRESS/EGRESS
		# 224E		OHIO EDISON COMPANY AN OHIO CORPORATION	D557	621	UTILITY EASEMENT PERPETUAL EASEMENT FOR TRANSMISSION OF ELECTRIC CURRENT WITH INGRESS/EGRESS
225	225L1		64	COMMERCIAL LEASE TO PIER ONE IMPORTS (U.S.), INC., A DELAWARE CORPORATION	OR400	729	TERM - 15 YEARS WITH 3 ADDITIONAL 5 YEAR TERMS
		225A		STATE OF OHIO	D144	221	HIGHWAY EASEMENT
		225B		DIRECTOR OF HIGHWAYS, STATE OF OHIO	D317	448	HIGHWAY EASEMENT
		# 225C		THE OHIO FUEL GAS COMPANY	D344	613	ROADSIDE RIGHT OF WAY
		225D		COLUMBIA GAS OF OHIO, INC.	D344	660	ROADSIDE RIGHT OF WAY
		225E		COLUMBIA GAS OF OHIO, INC. AN OHIO CORPORATION	D353	618	ASSIGNMENT OF 225C
		225F		STATE OF OHIO	D399	250	HIGHWAY EASEMENT
		225G		THE OHIO BELL TELEPHONE COMPANY	D557	879	UNDERGROUND COMMUNICATION SYSTEMS EASEMENT
		225H		PIER GROUP INC., A DELAWARE CORPORATION	OR39	473	INGRESS/EGRESS ON DEED
226	226L1		64-65	COMMERCIAL LEASE TO SERVICE MERCHANDISE COMPANY, INC., A TENNESSEE CORPORATION	OR10	59	TERM - 20 YEARS, 4 SUCCESSIVE PERIODS OF 5 YEARS
	226L2			COMMERCIAL LEASE TO PARK PLACE ENTERPRISES, LTD.,	OR361	649	ASSIGNMENT OF LEASES AND RELATED DEPOSITS

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
				AN OHIO LIMITED LIABILITY COMPANY			
	# 226L3			COMMERCIAL LEASE TO	OR162	944	TERM - 20 YEARS, 6 RENEWAL
				LOWE'S COMPANIES, INC.,			PERIODS OF 5 YEARS
				A NORTH CAROLINA CORPORATION			
	# 226L4			COMMERCIAL LEASE TO	RN201203143		TERM - 30 YEARS, 6 OPTION
				LOWE'S COMPANIES, INC.,			PERIODS OF 5 YEARS
				A NORTH CAROLINA CORPORATION			
	226L5			COMMERCIAL LEASE TO	OR385	951	TERM - 14 YEARS, 4 OPTIONS TO
				STAPLES THE OFFICE SUPERSTORE EAST,			EXTEND THE TERM FOR
				INC., A DELAWARE CORPORATION			5 YEARS EACH
				AND STAPLES, INC.,			
				A DELAWARE CORPORATION			
	226L6			COMMERCIAL LEASE TO	RN200006255		TERM - 5 YEARS,
				MICHAEL'S STORES, INC.,			4 ADDITIONAL PERIODS OF 5 YEARS
				A DELAWARE CORPORATION			
		226A		THE OHIO PUBLIC SERVICE COMPANY	MISC4	4	ELECTRIC ENERGY EASEMENT
		226B		STATE OF OHIO	D 144	221	HIGHWAY EASEMENT
		226C		STATE OF OHIO	D 317	448	HIGHWAY EASEMENT
		# 226D		THE OHIO FUEL GAS COMPANY	D 344	613	PIPELINE EASEMENT
		226E		COLUMBIA GAS OF OHIO, INC.	D 344	660	ROADSIDE RIGHT OF WAY
							PIPELINE
		226F		COLUMBIA GAS OF OHIO, INC.	D 353	618	ASSIGNMENT OF PREVIOUS
		226G		THE OHIO BELL TELEPHONE COMPANY	D 557	817	EASEMENT MODIFICATION
							AGREEMENT
		226H		BOARD OF COUNTY COMMISSIONERS	D 564	905	WATER LINES AND STORM
				OF ERIE COUNTY, OHIO			SEWER EASEMENTS
		226I		BOARD OF COUNTY COMMISSIONERS	D 564	963	WATER TOWER EASEMENT
				OF ERIE COUNTY, OHIO			
		# 226J		SANDUSKY CENTER PARTNERS,	D 569	508	WATER SUPPLY IMPROVEMENT
				AN OHIO GENERAL PARTNERSHIP			
		# 226K		SANDUSKY CENTER PARTNERS,	D 569	872	WATER SUPPLY IMPROVEMENT
				AN OHIO GENERAL PARTNERSHIP			
		# 226L		SANDUSKY CENTER PARTNERS,	D 569	510	AGREEMENT TO CONSTRUCT WATER LINE
				AN OHIO GENERAL PARTNERSHIP			
		# 226M		SANDUSKY CENTER PARTNERS,	D 569	876	AGREEMENT TO CONSTRUCT WATERLINE
				AN OHIO GENERAL PARTNERSHIP			
		226N		BOARD OF COUNTY COMMISSIONERS	OR 9	16	FIRST AMENDMENT TO
				OF ERIE COUNTY, OHIO			CONDITIONAL ACCESS EASEMENT
		226O		SANDUSKY CENTER PARTNERS,	OR 13	871	RECIPROCAL EASEMENT AND
				AN OHIO GENERAL PARTNERSHIP AND			OPERATION AGREEMENT
				TOYS "R" US, INC.,			
				A DELAWARE CORPORATION			
		226P		PORT LAWRENCE TITLE & TRUST	OR 100	551	UNDERGROUND DRAINAGE

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
				COMPANY, TRUSTEE			EASEMENT
		226Q		BOARD OF COUNTY COMMISSIONERS	OR 180	552	ASSIGNMENT OF UNDERGROUND
				OF ERIE COUNTY, OHIO			DRAINAGE EASEMENTS
		226R		SANDUSKY CENTER PARTNERS,	OR 216	213	AMENDMENT TO RECIPROCAL
				AN OHIO GENERAL PARTNERSHIP AND			EASEMENT AND OPERATION
				TOYS "R" US, INC.,			AGREEMENT
				A DELAWARE CORPORATION			
		226S		SANDUSKY CENTER PARTNERS,	OR 360	946	SECOND TO RECIPROCAL
				AN OHIO GENERAL PARTNERSHIP AND			EASEMENT AND
				TRU OHIO PROPERTIES, INC.,			OPERATION AGREEMENT
				A DELAWARE CORPORATION			
		226T		PARK PLACE ENTERPRISES, LTD.,	OR 361	690	ASSIGNMENT AND ASSUMPTION
				AN OHIO LIMITED LIABILITY COMPANY			OF RECIPROCAL EASEMENT
				AND PARK PLACE ENTERPRISES II LTD.,			AND OPERATIONAL AGREEMENT
				AN OHIO LIMITED LIABILITY COMPANY			
		226U		AND PARK PLACE ENTERPRISES II LTD.,	OR 361	716	DECLARATION OF RESTRICTIONS
				AN OHIO LIMITED LIABILITY COMPANY			
		226V		BOARD OF COUNTY COMMISSIONERS	OR 364	569	SECOND AMENDMENT TO
				OF ERIE COUNTY, OHIO			CONDITIONAL ACCESS EASEMENT
		226W		CAPSTONE REALTY ADVISORS, LLC,	RN200509798		SUBORDINATION, NON-DISTURBANCE
				AN OHIO LIMITED LIABILITY COMPANY			AND ATTORNMENT AGREEMENT
				PARK PLACE ENTERPRISES, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY AND			
				STAPLES THE OFFICE SUPERSTORE EAST,			
				INC., A DELAWARE CORPORATION			
		226X		CAPSTONE REALTY ADVISORS, LLC,	RN200509799		SUBORDINATION, NON-DISTURBANCE
				AN OHIO LIMITED LIABILITY COMPANY			AND ATTORNMENT AGREEMENT
				PARK PLACE ENTERPRISES, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY AND			
				CINEMARK USA, INC.,			
				A TEXAS CORPORATION			
		226Y		OHIO EDISON COMPANY	RN200704841		DRIVEWAY EASEMENT
		226Z		FIRELANDS REGIONAL MEDICAL CENTER,	RN201008941		ACCESS EASEMENT AGREEMENT
				AN OHIO NON-PROFIT CORPORATION			
		# 226AA		LOWE'S HOME CENTERS, INC.,	RN201203144		AMENDED AND RESTATED
				A NORTH CAROLINA CORPORATION			COMMENCEMENT AGREEMENT
227		227A	64	THE OHIO PUBLIC SERVICE COMPANY	MISC 4	4	ELECTRIC ENERGY EASEMENT
		227B		STATE OF OHIO	D 144	221	HIGHWAY EASEMENT
		# 227C		STATE OF OHIO	D 144	310	SEWER EASEMENT
		227D		STATE OF OHIO	D 317	448	HIGHWAY EASEMENT
		# 227E		THE OHIO FUEL GAS COMPANY	D 344	613	PIPELINE EASEMENT
		227F		COLUMBIA GAS OF OHIO, INC.	D 344	660	ROADSIDE RIGHT OF WAY
							PIPELINE
		# 227G		COLUMBIA GAS OF OHIO, INC.	D 353	618	ASSIGNMENT OF 227E

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		227H		COLUMBIA GAS OF OHIO, INC.	D 402	724	ROADSIDE RIGHT OF WAY
							PIPELINE
		227I		PORT LAWRENCE AGENCY, INC., TRUSTEE	D 542	166	ACCESS EASEMENT AGREEMENT
		227J		PORT LAWRENCE AGENCY, INC., TRUSTEE,	OR 8	609	AMENDMENT TO ACCESS
				PORT LAWRENCE TITLE AND TRUST			EASEMENT AGREEMENT
				COMPANY, TRUSTEE			
		227K		THE OHIO BELL TELEPHONE COMPANY	D 556	463	COMMUNICATION EASEMENT
		227L		THE OHIO BELL TELEPHONE COMPANY	D 557	817	EASEMENT MODIFICATION
							AGREEMENT
		# 227M		WAL-MART STORES, INC.,	D 565	538	EASEMENTS WITH COVENANTS
				A DELAWARE CORPORATION AND			AND RESTRICTIONS
				SANDUSKY CENTER PARTNERS,			AFFECTING LAND
				AN OHIO GENERAL PARTNERSHIP			
		# 227N		WAL-MART STORES, INC.,	OR 13	365	AMENDMENT TO EASEMENTS
				A DELAWARE CORPORATION AND			WITH COVENANTS AND
				SANDUSKY CENTER PARTNERS,			RESTRICTIONS AFFECTING LAND
				AN OHIO GENERAL PARTNERSHIP			
		# 227O		WAL-MART STORES, INC.,	OR 128	517	AMENDMENT TO EASEMENTS
				A DELAWARE CORPORATION AND			WITH COVENANTS AND
				SANDUSKY CENTER PARTNERS,			RESTRICTIONS AFFECTING LAND
				AN OHIO GENERAL PARTNERSHIP			
		# 227P		WAL-MART STORES, INC.,	OR 191	605	SECOND AMENDMENT TO ECR
				A DELAWARE CORPORATION AND			
				TOYS "R" US-OHIO, INC. AND			
				SANDUSKY CENTER PARTNERS			
				AN OHIO GENERAL PARTNERSHIP			
		# 227Q		SANDUSKY CENTER PARTNERS	OR 346	150	ASSUMPTION AGREEMENT
				AN OHIO GENERAL PARTNERSHIP AND			
				PASTA PROPERTIES, INC.,			
				AN OHIO CORPORATION			
		227R		PARK PLACE ENTERPRISES, LTD.,	OR 361	690	ASSIGNMENT AND ASSUSMPTION
				AN OHIO LIMITED LIABILITY COMPANY AND			OF RECIPROCAL EASEMENT
				PARK PLACE ENTERPRISES II, LTD.,			AND OPERATION AGREEMENT
				AN OHIO LIMITED LIABILITY COMPANY			
		227S		SANDUSKY CENTER PARTNERS	OR 362	569	ASSUMPTION AGREEMENT
				AN OHIO GENERAL PARTNERSHIP AND			
				PASTA PROPERTIES, INC.,			
				AN OHIO CORPORATION			
		227T		BOARD OF COUNTY COMMISSIONERS	D 567	531	WATER LINE EASEMENT
				OF ERIE COUNTY, OHIO			
		# 227U		WAL-MART REAL ESTATE BUSINESS TRUST,	RN200210090		THIRD AMENDMENT TO ECR
				A DELAWARE BUSINESS TRUST,			
				TOYS "R" US-OHIO, INC.,			
				AN OHIO CORPORATION			
				PARK PLACE ENTERPRISES, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY AND			
				PARK PLACE ENTERPRISES II, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY			

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		227V		SANDUSKY CENTER PARTNERS	OR 13	871	RECIPROCAL EASEMENT AND
				AN OHIO GENERAL PARTNERSHIP AND			OPERATION AGREEMENT
				TOYS "R" US-OHIO, INC.,			
				AN OHIO CORPORATION			
		227W		SANDUSKY CENTER PARTNERS	OR 216	213	AMENDMENT TO RECIPROCAL
				AN OHIO GENERAL PARTNERSHIP AND			EASEMENT AND OPERATION
				TOYS "R" US-OHIO, INC.,			AGREEMENT
				AN OHIO CORPORATION			
		227X		PASTA PROPERTIES, INC.,	OR 346	143	EASEMENT AGREEMENT
				AN OHIO CORPORATION			
		227Y		PASTA PROPERTIES, INC.,	OR 362	562	EASEMENT AGREEMENT
				AN OHIO CORPORATION			
		# 227Z		PARK PLACE ENTERPRISES, LTD.,	OR 361	669	ASSIGNMENT AND ASSUMPTION
				AN OHIO LIMITED LIABILITY COMPANY AND			OF EASEMENT WITH COVENANTS
				PARK PLACE ENTERPRISES II, LTD.,			AND RESTRICTIONS AFFECTING LAND
				AN OHIO LIMITED LIABILITY COMPANY			
		227AA		SANDUSKY CENTER PARTNERS	OR 360	946	SECOND AMENDMENT TO
				AN OHIO GENERAL PARTNERSHIP AND			RECIPROCAL EASMENT AND
				TRU OHIO PROPERTIES, INC.,			OPERATION AGREEMENT
				A DELAWARE CORPORATION			
228	228L1		64	COMMERCIAL LEASE TO	I 200413664		TERM - 10 YEARS WITH THE OPTION
				GMRI, INC., A FLORIDA CORPORATION			FOR 4 ADDITIONAL 5 YEAR TERMS
		228A		THE OHIO PUBLIC SERVICE COMPANY	MISC4	33	UTILITY EASEMENT
							EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		228B		OHIO EDISON COMPANY,	D 402	511	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							TRANSMISSION OF ELECTRIC
							CURRENT WITH INGRESS/EGRESS
		228C		STATE OF OHIO	D 425	252	HIGHWAY EASEMENT
							PERPETUAL EASEMENT
		# 228D		OHIO EDISON COMPANY,	D 550	504	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							TRANSMISSION OF ELECTRIC
							CURRENT WITH INGRESS/EGRESS
		# 228E		OHIO EDISON COMPANY,	D 557	621	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							TRANSMISSION OF ELECTRIC
							CURRENT WITH INGRESS/EGRESS
229		229A	64	THE OHIO PUBLIC SERVICE COMPANY	MISC4	33	UTILITY EASEMENT
							TRANSMISSION OF ELECTRICITY
		229B		OHIO EDISON COMPANY,	D 402	511	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							TRANSMISSION LINES
							WITH INGRESS/EGRESS
		229C		STATE OF OHIO	D 425	252	HIGHWAY EASEMENT
							PERPETUAL EASEMENT

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		# 229D		OHIO EDISON COMPANY,	D 550	504	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							TRANSMISSION LINES
							WITH INGRESS/EGRESS
		# 229E		OHIO EDISON COMPANY,	D 557	621	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							TRANSMISSION LINES
							WITH INGRESS/EGRESS
		229F		BCC SANDUSKY, LLC,	I 201200164		SIGNAGE EASMENT
				AN OHIO LIMITED LIABILITY COMPANY AND			(TERMINATES SIGNAGE EASEMENT
				SANDUSKY RETAIL PARTNERS, LLC,			I 201101864)
				A DELAWARE LIMITED LIABILITY COMPANY			
230		230A	64	THE OHIO FUEL GAS COMPANY	D 344	583	PIPELINE EASEMENT
							BLANKET WITHIN ROAD RIGHT OF WAY
		230B		COLUMBIA GAS OF OHIO	D 353	618	ASSIGNMENT OF PREVIOUS
		230C		STATE OF OHIO	D 400	76	HIGHWAY EASEMENT
		230D		THE OHIO BELL TELEPHONE COMPANY	D 558	436	COMMUNICATION EASEMENT
		230E		BOARD OF COUNTY COMMISSIONERS	D 568	375	WATER MAIN EASEMENT
				OF ERIE COUNTY, OHIO			
231		231A	64	STATE OF OHIO	D 395	77	HIGHWAY EASEMENT
		231B		THE OHIO TELEPHONE COMPANY	D 558	430	COMMUNICATION EASEMENT
		231C		BOARD OF COUNTY COMMISSIONERS	D 565	886	WATER MAIN EASEMENT
				OF ERIE COUNTY, OHIO			
		231D		BOARD OF COUNTY COMMISSIONERS	D 566	83	WATER MAIN EASEMENT
				OF ERIE COUNTY, OHIO			
		231E		BOARD OF COUNTY COMMISSIONERS	D 568	444	WATER MAIN EASEMENT
				OF ERIE COUNTY, OHIO			
		231F		BOARD OF COUNTY COMMISSIONERS	D 588	453	WATER MAIN EASEMENT
				OF ERIE COUNTY, OHIO			
232		232A	64	STATE OF OHIO	D 397	92	HIGHWAY EASEMENT
							PERPETUAL EASEMENT
		232B		STATE OF OHIO	D 397	95	HIGHWAY EASEMENT
							PERPETUAL EASEMENT
		232C		OHIO EDISON COMPANY,	D 402	515	UTILITY EASEMENT
				AN OHIO CORPORATION			PERPETUAL EASEMENT FOR
							ELECTRIC LINES
							WITH INGRESS/EGRESS
233	# 233L1		65	COMMERCIAL LEASE TO	OR 162	944	TERM - 20 YEARS WITH 6 RENEWAL
				LOWE'S COMPANIES, INC.,			PERIODS OF 5 YEARS EACH,
				A NORTH CAROLINA CORPORATION			PROVIDED TENANT IS NOT IN DEFAULT

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
	233L2			COMMERCIAL LEASE TO	OR 385	951	TERM - 14 YEARS EXPIRING FEB.
				STAPLES THE OFFICE SUPERSTORE EAST,			28, 2012 UNLESS THE TERM IS
				INC., A DELAWARE CORPORATION AND			TERMINATED EARLIER OR EXTENDED
				STAPLES, INC., A DELAWARE CORPORATION			WITH 4 OPTIONS TO EXTEND THE
							TERM FOR 5 YEARS EACH
	# 233L3			COMMERCIAL LEASE TO	I 201203143		TERM - 30 YEARS WITH 6 OPTION
				LOWE'S COMPANIES, INC.,			PERIODS OF 5 YEARS EACH
				A NORTH CAROLINA CORPORATION			
	# 233L4			COMMERCIAL LEASE TO	I 201203144		TERM OF LEASE COMMENCED ON
				LOWE'S COMPANIES, INC.,			JANUARY 31, 1994 AND INITIAL TERM
				A NORTH CAROLINA CORPORATION			OF LEASE SHALL TERMINATE
							JULY 31, 2025 WITH THE OPTION TO
							RENEW THE TERM OF THE LEASE
							FOR SIX 5 YEAR TERMS
		233A		OHIO PUBLIC SERVICE COMPANY,	MISC4	4	UTILITY EASMENT
				AN OHIO CORPORATION			EASEMENT AND ROW FOR
							TRANSMISSION OF ELECTRICITY
		233B		UNITED STATES OF AMERICA	MISC7	533	PIPE LINE EASEMENT
							PERPETUAL EASEMENT FOR
							WATER PIPE LINE
		233C		UNITED STATES OF AMERICA	D 399	459	33' PIPE LINE EASEMENT
		233D		UNITED STATES OF AMERICA	OR 14	57	33' PIPE LINE EASEMENT
		233E		COLUMBIA GAS OF OHIO, INC.	D 402	724	PIPE LINE EASEMENT
							WITH INGRESS/EGRESS
		233F		COLUMBIA GAS OF OHIO, INC.	D 402	750	PIPE LINE EASEMENT
							WITH INGRESS/EGRESS
		233G		DAVE WIKEL	D 502	365	SEWER EASEMENT
		233H		THE OHIO BELL TELEPHONE COMPANY	D 556	463	UTILITY EASEMENT
							5' PERPETUAL EASEMENT FOR
							UNDERGROUND COMMUNICATION
		233I		THE OHIO BELL TELEPHONE COMPANY	D 556	707	UTILITY EASEMENT
							5' PERPETUAL EASEMENT FOR
							UNDERGROUND COMMUNICATION
		233J		THE OHIO BELL TELEPHONE COMPANY	D 557	817	UTILITY EASEMENT FOR
							UNDERGROUND COMMUNICATION SYS.
		233K		SANDUSKY CENTER PARTNERS,	D 557	274	EASEMENT FOR STORM SEWER
				AN OHIO PARTNERSHIP			
		# 233L		WAL-MART STORES, INC.	D 565	538	WALKWAY EASEMENT
				A DELAWARE CORPORATION AND			WALKWAYS, PARKING, LOADING/
				SANDUSKY CENTER PARTNERS,			UNLOADING ZONES FOR
				AN OHIO PARTNERSHIP			COMMERCIAL & OTHER VEHICLES
		# 233M		WAL-MART STORES, INC.	OR 013	365	AMENDMENT TO EASEMENTS WITH
				A DELAWARE CORPORATION AND			COVENANTS & RESTRICTIONS
				SANDUSKY CENTER PARTNERS,			
				AN OHIO PARTNERSHIP			
		# 233N		WAL-MART STORES, INC.	OR 128	517	AMENDMENT TO EASEMENTS WITH
				A DELAWARE CORPORATION AND			COVENANTS & RESTRICTIONS

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
				SANDUSKY CENTER PARTNERS,			
				AN OHIO PARTNERSHIP			
		# 233O		WAL-MART STORES, INC.	OR 191	605	AMENDMENT TO EASEMENTS WITH
				A DELAWARE CORPORATION AND			COVENANTS & RESTRICTIONS
				TOYS "R" US-OHIO, INC.,			
				AN OHIO CORPORATION SUCCESSOR IN			
				INTEREST TO TOYS "R" US, INC.,			
				A DELAWARE CORPORATION AND			
				SANDUSKY CENTER PARTNERS,			
				AN OHIO PARTNERSHIP			
		# 233P		PASTA PROPERTIES, INC.,	OR 362	569	ASSUMPTION AGREEMENT
				AN OHIO CORPORATION			
		# 233Q		WAL-MART REAL ESTATE BUSINESS TRUST,	I 200210090		AMENDMENT TO EASEMENT
				A DELAWARE BUSINESS TRUST,			AGREEMENT
				TOYS "R" US-OHIO, INC.,			(DEED V. 565 P. 538)
				AN OHIO CORPORATION			
				PARK PLACE ENTERPRISES, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY AND			
				PARK PLACE ENTERPRISES II, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY			
		# 233R		PARK PLACE ENTERPRISES, LTD.,	OR 361	669	ASSIGNMENT AND ASSUMPTION
				AN OHIO LIMITED LIABILITY COMPANY AND			OF EASEMENTS
				PARK PLACE ENTERPRISES II, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY			
		233S		BOARD OF COUNTY COMMISSIONERS	D 567	531	WATER LINE EASEMENT
				OF ERIE COUNTY, OHIO			
		# 233T		SANDUSKY CENTER PARTNERS,	D 569	872	SEWER EASEMENT
				AN OHIO GENERAL PARTNERSHIP			INSTALL WATER SUPPLY
							IMPROVEMENT IN THE
							PERKINS-MARGARETTA SEWER
		# 233U		SANDUSKY CENTER PARTNERS,	D 569	876	SEWER EASEMENT
				AN OHIO GENERAL PARTNERSHIP			WATER SUPPLY IMPROVEMENTS
		233V		BOARD OF COUNTY COMMISSIONERS	OR 013	853	SEWER EASEMENT
				OF ERIE COUNTY, OHIO			WATER & SANITARY SEWER LINES
		233W		BOARD OF COUNTY COMMISSIONERS	OR 364	576	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			AMENDMENT TO EASEMENT
							(OR V.013, P.853)
							TO ALLOW FOR RELOCATION &
							WIDENING OF PARK PLACE
							UTILITY EASEMENT
		233X		TOYS "R" US, INC.,	OR 013	868	RESTRICTIONS ON DEED
				A DELAWARE CORPORATION			AS RECORDED (DEED V.565, P.538)
		233Y		SANDUSKY CENTER PARTNERS,	OR 013	871	INGRESS/EGRESS EASEMENT
				AN OHIO GENERAL PARTNERSHIP AND			NON-EXCLUSIVE EASEMENT TO
				TOYS "R" US, INC.,			AND FROM ADJACENT PUBLIC/
				A DELAWARE CORPORATION			PRIVATE ROADS
		233Z		SANDUSKY CENTER PARTNERS,	OR 216	213	BUILDING EASEMENT
				AN OHIO GENERAL PARTNERSHIP AND			AMENDMENT TO OR V.013, P.871
				TOYS "R" US, INC.,			
				A DELAWARE CORPORATION			

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		233AA		SANDUSKY CENTER PARTNERS,	OR 360	946	BUILDING EASEMENT
				AN OHIO GENERAL PARTNERSHIP AND			SECOND AMENDMENT TO
				TRU OHIO PROPERTIES, INC.,			OR V.013, P.871
				A DELAWARE CORPORATION			RESTRICTION TO HEIGHT OF BLDGS
		233AB		TOYS "R" US-OHIO, INC.,	RN 200210088		BUILDING EASEMENT
				AN OHIO CORPORATION, SUCCESSOR IN			THIRD AMENDMENT TO RECIPROCAL
				INTEREST TO TOYS "R" US, INC.,			EASEMENT AND OPERATION
				A DELAWARE CORPORATION			AGREEMENT TO PERMIT
				PARK PLACE ENTERPRISES, LTD.,			WAL-MART TO EXPAND
				AN OHIO LIMITED LIABILITY COMPANY AND			AMENDMENT TO (OR V.013, P.871)
				PARK PLACE ENTERPRISES II, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY			
		233AC		STATE OF OHIO,	OR 094	770	SEWER EASEMENT
				DEPARTMENT OF TRANSPORTATION			
		233AD		CHHC, INC., AN OHIO CORPORATION	OR 128	519	SIGNAGE AND LANDSCAPE
							EASEMENT
		233AE		SANDUSKY CENTER PARTNERS,	OR 249	68	NON-EXCLUSIVE EASEMENT
				AN OHIO GENERAL PARTNERSHIP AND			FOR PARCEL 2 ON DEED
		233AF		SOUTHWEST DINING, INC.,	OR 249	115	INGRESS/EGRESS
				AN INDIANA CORPORATION			NON-EXCLUSIVE EASEMENT
		233AG		PASTA PROPERTIES, INC.,	OR 362	562	INGRESS/EGRESS
				AN OHIO CORPORATION			NON-EXCLUSIVE PERPETUAL
							FOR PED/VEHICULAR INGRESS/
							EGRESS, PASSAGE & DELIVERY
							BUT NOT PARKING
		233AH		PARK PLACE ENTERPRISES II, LTD.,	OR 361	716	DECLARATION OF RESTRICTIONS
				AN OHIO LIMITED LIABILITY COMPANY			FOR PARK PLACE SHOPPING CNTR.
		233AI		WAL-MART REAL ESTATE BUSINESS TRUST,	I 200210091		AMENDMENT TO DECLARATION
				A DELAWARE CORPORATION BY			OF RESTRICTIONS
				PARK PLACE ENTERPRISES II, LTD.,			
				AN OHIO LIMITED LIABILITY COMPANY			
		# 233AJ		THE OHIO EDISON COMPANY	I 200612596		DRIVEWAY EASEMENT
		233AK		THE OHIO EDISON COMPANY	I 200704841		20' DRIVEWAY EASEMENT
		233AL		FIRELANDS REGIONAL MEDICAL CENTER,	I 201008941		INGRESS AND EGRESS
				AN OHIO NON-PROFIT CORPORATION			PEDESTRIAN & VEHICULAR
		233AM		PARK PLACE ENTERPRISES, LTD.	OR 361	710	EASEMENT ASSEMBLY
235	235L1		64	COMMERCIAL LEASE TO	I 200615053		TERM - 20 YEARS WITH 4-5 YEAR
				FIRE MOUNTAIN RESTAURANTS, LLC,			OPTIONS
				A DELAWARE LIMITED LIABILITY COMPANY			
		235A		RYAN'S FAMILY STEAK HOUSES, INC.	OR 319	203	RESTRICTIONS ON DEED
		235B		RYAN'S FAMILY STEAK HOUSES, INC.	OR 319	206	UTILITY EASEMENT
							ACCESS EASEMENT, STORM DRAIN
							EASEMENT & WATER LINE EASEMENT
							(NOT ON SUBJECT PROPERTY)
236		236A	64	STATE OF OHIO	D 144	221	HIGHWAY EASEMENT

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		236B		THE LAKE ERIE POWER & LIGHT CO	MISC 6	412	ELECTRIC UTILITY EASEMENT
		236C		THE LAKE ERIE POWER & LIGHT CO & THE	MISC 7	63	ASSIGNMENT OF PREVIOUS
				TOLEDO EDISON COMPANY			
		236D		THE TOLEDO EDISON COMPANY & OHIO	D 261	178	ASSIGNMENT OF EASEMENT RIGHTS
				EDISON COMPANY			
		# 236E		OHIO FUEL GAS COMPANY	D 344	613	PIPE LINE EASEMENT
		# 236F		THE OHIO FUEL GAS COMPANY &	D 353	618	ASSIGNMENT OF PREVIOUS
				COLUMBIA GAS OF OHIO, INC			
		236G		COLUMBIA GAS OF OHIO, INC	D 344	660	RIGHT OF WAY FOR GAS LINE
		236H		STATE OF OHIO	D 399	755	HIGHWAY EASEMENT
		236I		COLUMBIA GAS OF OHIO, INC	D 402	724	RIGHT OF WAY FOR GAS LINE
		236J		OHIO BELL TELEPHONE COMPANY	D 413	505	EASEMENT FOR TELEPHONE
		236K		OHIO BELL TELEPHONE COMPANY	D 556	704	EASEMENT FOR TELEPHONE
		236L		SANDUSKY CENTER PARTNERS	D 557	267	RESTRICTIONS ON DEED
		# 236M		SANDUSKY CENTER PARTNERS	D 565	538	EASEMENTS WITH COVENANTS &
							RESTRICTIONS AFFECTING LAND
		236N		BOARD OF COUNTY COMMISSIONERS OF	D 567	531	WATER MAIN EASEMENT
				ERIE COUNTY OHIO			
		# 236O		SANDUSKY CENTER PARTNERS	D 569	872	RESOLUTION FOR WATERLINE
		236P		TOYS "R" US, INC	OR 013	871	RECIPROCAL EASEMENT &
							OPERATION AGREEMENT
		236Q		TOYS "R" US, INC	OR 216	213	AMENDMENT TO 236P
		236R		TRU OHIO PROPERTIES, INC	OR 360	946	AMENDMENT TO 236P
		236S		PARK PLACE ENTERPRISES II, LTD	OR 361	690	ASSIGNMENT & ASSUMPTION OF
							RECIPROCAL EASEMENT &
							OPERATION AGREEMENT
		236T		PARK PLACE ENTERPRISES, LTD	OR 361	710	INGRESS/EGRESS EASEMENT
		236U		MIDWEST BUILDING & DEVELOPMENT CO	RN 201003118		INGRESS/EGRESS EASEMENT
		236V		MIDWEST BUILDING & DEVELOPMENT CO	RN 201003119		INGRESS/EGRESS EASEMENT
		236W		MIDWEST BUILDING & DEVELOPMENT CO	RN 201100590		AMENDMENT TO PREVIOUS
		236X		ERIE SHORE PROPERTY HOLDINGS, LLC	RN 201003120		DECLARATION OF USE RESTRICTIONS
		# 236Y		ERIE SHORE PROPERTY HOLDINGS, LLC	RN 201003121		WAIVER OF ENCROACHMENTS
237	237L1		64	BETWEEN 419 INVESTMENTS LTD &	RN 200414080		20 YRS WIT HOPTION TO EXTEND AN
				PACIFIC BELLS INC			ADDITIONAL 20 YRS
	# 237L2			BETWEEN 419 INVESTMENTS LTD &			
				AHG LANDHOLDINGS OF ABSECON, LLC	RN 200712323		ASSIGNMENT & ASSUMPTION OF
							LEASE

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	237L3			BETWEEN AHG LANDHOLDINGS OF	RN 200810899		LANDLORD'S CONSENT
				ABSECON LLC & PACIFIC BELLS INC			
237		237A	64	MVP PROPERTIES LTD	OR 384	717	EASEMENT & RESTRICTIONS ON DEED
238		238A	64-65	THE OHIO PUBLIC SERVICE COMPANY	MISC 4	4	EASEMENT FOR ELECTRICAL DIST.
		238B		UNTIED STATES OF AMERICA	MISC 7	533	RIGHT OF WAY IN, OVER, UPON &
							ACROSS THE LANDS
		238C		UNITED STATES OF AMERICA	D 399	459	MEMORANDUM OF UNDERSTANDING
		238D		STATE OF OHIO	D 317	448	EASEMENT FOR HIGHWAY
		# 238E		THE OHIO FUEL GAS COMPANY	D 344	613	GAS LINE EASEMENT
		# 238F		COLUMBIA GAS OF OHIO, INC	D 353	618	ASSIGNMENT OF PREVIOUS
		238G		STATE OF OHIO	D 400	505	EASEMENT FOR HIGHWAY PURPOSES
		238H		COLUMBIA GAS OF OHIO, INC	D 402	750	ROADSIDE RIGHT OF WAY PIPELINE
		# 238I		OHIO EDISON COMPANY	D 403	580	ELECTRIC UTILITY EASEMENT
		238J		OHIO EDISON COMPANY	D 423	961	ELECTRIC UTILITY EASEMENT
		238K		BOARD OF COUNTY COMMISSIONERS OF	D 566	253	WATER LIN EASEMENT
				ERIE COUNTY OHIO			
		238L		THE OHIO BELL TELEPHONE COMPANY	D 556	704	EASEMENT FOR TELEPHONE
239		239A	64-65	THE OHIO PUBLIC SERVICE COMPANY	MISC 4	33	ELECTRIC UTILITY EASEMENT
		# 239B		THE LAKE ERIE POWER & LIGHT COMPANY	MISC 6	413	ELECTRIC UTILITY EASEMENT
		# 239C		THE TOLEDO EDISON COMPANY	MISC 7	63	ASSIGNEMNT OF UTILITY EASEMENT
		# 239D		OHIO EDISON COMPANY	D 261	178	ASSIGNEMNT OF UTILITY EASEMENT
		239E		OHIO EDISON COMPANY	D 400	656	ELECTRIC UTILITY EASEMENT
		239F		THE STATE OF OHIO	D 402	131	HIGHWAY & TEMPORARY EASEMENT
240		240A	65	THE OHIO PUBLIC SERVICE COMPANY	MISC 4	4	EASEMENT FOR ELECTRICAL DIST.
		240B		UNITED STATES OF AMERICA	MISC 7	533	EASEMENT FOR WATER PIPE
		240C		CHRYSLER REALTY CORPORATION	D 399	459	MEMORANDUM OF UNDERSTANDING
		# 240D		STATE OF OHIO	D 317	448	EASEMENT FOR HIGHWAY PURPOSES
		# 240E		THE OHIO FUEL GAS COMPANY	D 344	613	ROAD SIDE RIGHT OF WAY PIPELINE
		# 240F		THE OHIO FUEL GAS COMPANY	D 353	618	ASSIGNMENT OF EASEMENT
		240G		STATE OF OHIO	D 400	505	EASEMENT FOR HIGHWAY PURPOSES
		240H		COLUMBIA GAS OF OHIO, INC	D 402	750	ROAD SIDE RIGHT OF WAY PIPELINE

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		# 240I		OHIO EDISON COMPANY	D 403	580	ELECTRIC UTILITY EASEMENT
		240J		OHIO EDISON COMPANY	D 423	961	ELECTRIC UTILITY EASEMENT
		240K		FIRELANDS REGIONAL MEDICAL CENTER	RN 201008941		ACCESS EASEMENT AGREEMENT
		240L		BUCKEYE CABLEVISION, INC	RN 201203197		EASEMENT & RIGHT OF WAY
241	241L1		65	BETWEEN PRECO II CRIC, LLC & APPLE OHIO LLC	RN 200322881		20 YRS WITH THE RIGHT TO EXTEND FOR 4 ADD. PERIODS OF 5 YRS EA.
	241L2			BETWEEN APPLE OHIO LLC, PRECO II CRIC LLC, GE CAPITAL FRANCHISE FINANCE CORPORATION, & BANK OF AMERICA, N.A.	RN 200322881		SUBORDINATION, NON-DISTURBANCE, & ATTORNMENT AGREEMENT
		241A		STATE OF OHIO	DV 144	220	HIGHWAY EASEMENT
		241B		THE UNITED STATES OFAMERICA	MISC 7	537	WATER UTILITY EASEMENT
		241C		THE STATE OF OHIO	DV 317	557	HIGHWAY EASEMENT
		241D		THE OHIO FUEL GAS COMPANY	DV 344	571	GAS UTILITY EASEMENT
		241E		BETWEEN THE OHIO FUEL GAS COMPANY & COLUMBUS GAS OF OHIO, INC	DV 353	618	ASSIGNMENT OF EASEMENT
		241F		OHIO EDISON COMPANY	DV 402	517	ELECTRIC UTILITY EASEMENT
		241G		OHIO EDISON COMPANY	DV 433	779	ELECTRIC UTILITY EASEMENT
		241H		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY	DV 441	689	WATER UTILITY EASEMENT
		241I		COLUMBIA GAS OF OHIO, INC	DV 481	769	GAS UTILITY EASEMENT
		241J		FANNY BAER'S INC	DV 482	755	NON-EXCLUSIVE EASMENT AGREEMENT
		241K		OHIO EDISON COMPANY	DV 483	413	TELEPHONE UTILITY EASEMENT
		241L		THE OHIO BELL TELEPHONE COMPANY	DV 484	605	TELEPHONE UTILITY EASEMENT
		241M		APPLE AMERICAN LIMITED PARTNERSHIP OF OHIO	OR 200	886	RECIPROCAL EASEMENT AGREEMENT
		241N		APPLE AMERICAN LIMITED PARTNERSHIP OF OHIO	OR 282	31	SIGN EASEMENT
242		242A	65	THE BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 441	686	WATER UTILITY EASEMENT
		242B		FANNY BAER'S INC	D 482	755	INGRESS/EGRESS EASEMENT WATER LINE EASEMENT
		242C		THIRD NATIONAL BANK OF SANDUSKY	OR 104	677	INGRESS/EGRESS EASEMENT
		242D		BAYWINDS LIMITED PARTNERSHIP	OR 106	312	INGRESS/EGRESS EASEMENT
		242E		BRIGHTON MANOR COMPANY & WMOG INVESTMENT, INC.	OR 197	710	SEWER UTILITY EASEMENT

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		242F		BANK OR THE WEST	RN 2000119638		HAZARDOUS SUBSTANCES
		242G		SCOTT EMERSON, TRUSTEE FOR MUELLER ELECTRIC EMPLOYEE PENSION FUND	RN 200607372		CERTIFICATE & INDEMNITY AGREEMENT
243		243A	65	FANNY BAER'S, INC	D 482	755	NONXCLUSIVE EASEMENT AGREEMENT
		243B		THE BOARD OF COUTY COMMISSIONERS OF ERIE COUTNY OHIO	D 441	686	WATER UTILITY EASEMENT
244	244L1		65	BETWEEN J&M HOSPITALITY, LLC & SS HOSPITALITY, LLC	RN 200909980		1/1/2008 TO 12/31/2013 WITH OTION TO RENEW FOR ADDITIONAL 16 YRS
	244L2			BETWEEN J&M HOSPITALITY, LLC & SS HOSPITALITY, LLC	RN 200909979		
		244A		UNITED STATES OF AMERICA	MISC 7	537	WATER LINE EASEMENT
		244B		OHIO EDISON COMPANY	D 433	779	ELECTRIC UTILITY EASEMENT
		244C		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 441	689	WATER UTILITY EASEMENT
		244D		COLUMBIA GAS OF OHIO, INC	D 481	769	UTILITY EASEMENT
		244E		FANNY BAER'S, INC	D 482	755	NON-EXCLUSIVE EASEMENT AGREEMENT
		244F		OHIO EDISON COMPANY	D 483	413	TELEPHONE UTILITY EASEMENT
		244G		S&S REALTY	OR 200	886	RECIPROCAL EASEMENT AGREEMENT
		244H		OHIO EDISON COMPANY	OR 247	681	UTILITY EASEMENT
		244I		J & M HOSPITALITY, LLC	RN 200713322		ASSIGNMENT OF EASEMENTS
245		245A	65	THE OHIO PUBLIC SERVICE COMPANY	MISC 4	4	EASEMENT FOR ELECTRICAL DIST.
		245B		UNITED STATES OF AMERICA	MISC 7	533	EASEMENT FOR WATER PIPE
		245C		CHRYSLER REALTY CORPORATION	D 399	459	MEMORANDUM OF UNDERSTANDING
		245D		STATE OF OHIO	D 317	448	EASEMENT FOR HIGHWAY PURPOSES
		# 245E		THE OHIO FUEL GAS COMPANY	D 344	613	ROAD SIDE RIGHT OF WAY PIPELINE
		# 245F		THE OHIO FUEL GAS COMPANY	D 353	618	ASSIGNMENT OF EASEMENT
		245G		STATE OF OHIO	D 400	505	EASEMENT FOR HIGHWAY PURPOSES
		245H		COLUMBIA GAS OF OHIO, INC	D 402	750	ROAD SIDE RIGHT OF WAY PIPELINE
		# 245I		OHIO EDISON COMPANY	D 403	580	EASEMENT FOR ELECTRIC ENERGY
		245J		OHIO EDISON COMPANY	D 423	961	EASEMENT FOR ELECTRIC ENERGY
		245K		THE OHIO BELL TELEPHONE COMPANY	D 556	707	EASEMENT FOR UNDERGROUND COMMUNICATION SYSTEMS

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		245L		THE OHIO BELL TELEPHONE COMPANY	D 557	817	EASEMENT MODIFICATION AGREEMENT
		245M		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 564	963	CONDITIONAL ACCESS AGREEMENT
		245N		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 566	253	WATER LINE EASEMENT
		245O		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 567	531	WATER LINE EASEMENT
		# 245P		SANDUSKY CENTER PARTNERS	D 569	508	RESOLUTION FOR A WATER LINE
		# 245Q		SANDUSKY CENTER PARTNERS	D 569	872	RESOLUTION FOR A WATER LINE
		# 245R		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 569	510	EASEMENT FOR SEWER & WATER
		# 245S		SANDUSKY CENTER PARTNERS	D 569	876	EASEMENT FOR SEWER & WATER
		# 245T		THE OHIO BELL TELEPHONE COMPANY	OR 3	638	EASEMENT FOR UNDERGROUND COMMUNICATION SYSTEMS
		245U		SANDUSKY CENTER PARTNERS	OR 9	16	AMENDMENT TO CONDITIONAL ACCESS AGREEMENT
		245V		STATE OF OHIO	OR 94	770	EASEMENT FOR STORM SEWER
		245W		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	OR 364	569	SECOND AMENDMENT TO CONDITIONAL ACCESS EASEMENT
246		246A	65	THE STATE OF OHIO	D 144	220	HIGHWAY EASEMENT
		246B		THE STATE OF OHIO	D 317	557	HIGHWAY EASEMENT
		246C		THE OHIO FUEL GAS COMPANY	D 344	571	ASSIGNMENT OF EASEMENT
		246D		COLUMBIA GAS OF OHIO, INC	D 353	618	ASSIGNMENT OF EASEMENT
		246E		GULF OIL CORPORATION	D 351	521	QUIT CLAIM DEED OF INTEREST/ EASEMENT
		246F		THE OHIO BELL TELEPHONE COMPANY	D 484	602	UTILITY EASEMENT
247	247L1		65	BETWEEN ULTIMATE DEVELOPING, LLC & NORTH COAST DRIVE-INS, LLC	RN 201006971		10 YRS WITH POSSIBLE 15 YR EXT.
		247A		OHIO EDISON COMPANY	D 385	120	UTILITY EASEMENT
		247B		OHIO EDISON COMPANY	D 403	206	UTILITY EASEMENT
		247C		OHIO EDISON COMPANY	D 403	264	UTILITY EASEMENT
		247D		STATE OF OHIO	D 434	268	HIGHWAY EASEMENT
248		248A	65	OHIO EDISON COMPANY	D 314	67	UTILITY EASEMENT
		248B		JAMES L. & SHARON J. SCHOENEGGE	OR 183	596	PARTIAL RELEASE OF UTILITY EASEMENT
		248C		THE STATE OF OHIO	D 317	550	STANDARD HIGHWAY, LIMITED ACCESS & TEMPORARY EASEMENTS
		248D		OHIO EDISON COMPANY	D 363	255	UTILITY EASEMENT
		248E		THE STATE OF OHIO	D 396	852	HIGHWAY EASEMENT
		248F		JACKSON B. & EMMY WOLFF	D 413	292	INGRESS/EGRESS EASEMENT
		248G		OHIO EDISON COMPANY	D 418	585	UTILITY EASEMENT
		248H		JACKSON B. WOLFF	D 448	507	SEWER EASEMENT
		248I		THE OHIO BELL TELEPHONE COMPANY	D 484	757	UTILITY EASEMENT
		248J		BUCKEYE CABLE VISION, INC.	I 201303070		TELECOMMUNICATIONS EASEMENT
		248K		BUCKEYE CABLE VISION, INC.	I 201303070		TELECOMMUNICATIONS EASEMENT
249		# 249A	66	OHIO EDISON COMPANY	D 402	442	UTILITY EASEMENT
250		250A	66	THE STATE OF OHIO	D 315	195	HIGHWAY EASEMENT
		250B		THE BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 338	296	UTILITY EASEMENT
252		252A	66	THE STATE OF OHIO	D 144	219	HIGHWAY EASEMENT
		252B		THE STATE OF OHIO	D 170	266	HIGHWAY EASEMENT
		252C		THE STATE OF OHIO	D 316	90	HIGHWAY EASEMENT
		# 252D		COLUMBIA GAS OF OHIO, INC	D 360	300	GAS UTILITY EASEMENT
		252E		THE STATE OF OHIO	D 397	107	HIGHWAY EASEMENT
		# 252F		OHIO EDISON COMPANY	D 400	764	ELECTRIC UTILITY EASEMENT
		# 252G		OHIO EDISON COMPANY	D 402	116	UTILITY EASEMENT
		252H		THE OHIO BELL TELEPHONE COMPANY	D 413	533	UTILITY EASEMENT
		# 252I		OHIO EDISON COMPANY	OR 150	611	UTILITY EASEMENT
		# 252J		OHIO EDISON COMPANY	OR 212	907	UTILITY EASEMENT
253		253A	66	OHIO EDISON COMPANY	D 314	377	ELECTRIC UTILITY EASEMENT
		253B		STATE OF OHIO	D 315	203	EASEMENT FOR HIGHWAY PURPOSES
		# 253C		COLUMBIA GAS OF OHIO, INC	D 360	306	UTILITY EASEMENT
		253D		STATE OF OHIO	D 396	44	EASEMENT FOR HIGHWAY PURPOSES
		253E		OHIO EDISON COMPANY	D 402	118	UTILITY EASEMENT
		253F		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	D 506	434	UTILITY DEED OF EASEMENT

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R/W REVIEWER KCD

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		253G		OHIO EDISON COMPANY	OR 160	181	ELECTRIC UTILITY EASEMENT
		# 253H		OHIO EDISON COMPANY	OR 212	907	ELECTRIC UTILITY EASEMENT
		253I		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY OHIO	OR 372	252	UTILITY EASEMENT
		253J		BUCKEYE CABLEVISION, INC.	RN 201004681		UTILITY EASEMENT AND RIGHT OF WAY
254		254A	66	STATE OF OHIO	D 398	299	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		# 254B		COLUMBIA GAS OF OHIO, INC.	D 360	302	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		254C		STATE OF OHIO	D 396	764	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		254D		OHIO EDISON COMPANY, AN OHIO CORPORATION	D 402	114	UTILITY EASEMENT
							EASEMENT & ROW FOR
							TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		254E		COLUMBIA GAS OF OHIO, INC.	D 402	742	UTILITY EASEMENT
							PERPETUAL EASEMENT FOR
							PIPELINE WITH INGRESS/EGRESS
255		255A	66	STATE OF OHIO	D 144	218	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		255B		TOWNSHIP TRUSTEES OF PERKINS TOWNSHIP, ERIE COUNTY, OHIO	MISC 7	465	UTILITY EASEMENT
							SEWER OUTLET
		255C		STATE OF OHIO	D 170	265	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		255D		COLUMBIA GAS OF OHIO, INC.	D 360	306	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		255E		COLUMBIA GAS OF OHIO, INC.	D 362	410	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		255F		STATE OF OHIO	D 398	309	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		255G		STATE OF OHIO	D 398	441	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		255H		OHIO EDISON COMPANY, AN OHIO CORPORATION	D 402	112	UTILITY EASEMENT
							PERPETUAL EASEMENT FOR
							DISTRIBUTION OF ELECTRIC CURRENT
							WITH INGRESS/EGRESS
		255I		COLUMBIA GAS OF OHIO, INC.	D 402	742	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		255J		STATE OF OHIO	D 405	34	HIGHWAY EASEMENT
							PERPETUAL EASMENT & ROW
		255K		THE OHIO BELL TELEPHONE COMPANY	D 413	536	UTILITY EASEMENT

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							PERPETUAL EASEMENT FOR
							COMMUNICATION SYSTEM
							WITH INGRESS/EGRESS
		255L		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO	D 417	72	ROAD APPROPRIATION
		255M		BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO	D 506	597	UTILITY EASEMENT
							SANITARY SEWER WITH
							INGRESS/EGRESS
		255N		NOT USED			
257		257A	66	BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO	D 507	979	SANITARY SEWER EASEMENT
258		# 258A	66-67	COLUMBIA GAS OF OHIO, INC.	D 360	306	UTILITY EASEMENT
							PERPETUAL EASEMENT FOR
							PIPELINE WITH INGRESS/EGRESS
		258B		STATE OF OHIO	D 398	309	HIGHWAY EASEMENT
							PERPETUAL
		258C		OHIO EDISON COMPANY, AN OHIO CORPORATION	D 402	112	UTILITY EASEMENT
							PERPETUAL EASEMENT FOR
							TRANSMISSION LINES WITH
							INGRESS/EGRESS
		258D		COLUMBIA GAS OF OHIO, INC.	D 402	742	UTILITY EASEMENT
							PERPETUAL EASEMENT FOR
							PIPELINE WITH INGRESS/EGRESS
259		259A	66-67	STATE OF OHIO	D 399	135	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		259B		OHIO EDISON COMPANY, AN OHIO CORPORATION	D 402	523	UTILITY EASEMENT
							EASEMENT & ROW FOR
							TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		259C		COLUMBIA GAS OF OHIO, INC.	D 402	742	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
260	260L1		66-67	COMMERCIAL LEASE TO NORTH COAST INN III, INC., AN OHIO CORPORATION	I 200609220		LEASE COMMENCED ON JULY 14, 2006 AND EXPIRES AUGUST 30, 2023
		# 260A		COLUMBIA GAS OF OHIO, INC.	D 359	109	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		# 260B		COLUMBIA GAS OF OHIO, INC.	D 359	115	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		260C		STATE OF OHIO	D 405	588	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW

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		260D		THE OHIO EDISON COMPANY	D 410	152	UTILITY EASEMENT
				AN OHIO CORPORATION			TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		260E		STATE OF OHIO	D 410	435	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		260F		BOARD OF COUNTY COMMISSIONERS	D 417	72	COMMON PLEAS COURT PROPERTY TAKE
				OF ERIE COUNTY, OHIO			
		260G		THE OHIO EDISON COMPANY	D 458	359	UTILITY EASEMENT
				AN OHIO CORPORATION			DISTRIBUTION OF ELECTRIC CURRENT
		260H		COLUMBIA GAS OF OHIO, INC.	D 458	360	UTILITY EASEMENT
							PIPELINE
		260I		BOARD OF COUNTY COMMISSIONERS	D 566	245	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			WATER MAIN
		260J		BOARD OF COUNTY COMMISSIONERS	I 200100176		UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			SANITARY SEWER
261		# 261A	66-67	LESTER TOLL & VINCENT TOLL	D 207	537	EASEMENT
							FOR EQUIPMENT TO CONTAIN &
							STORE GASSES
		# 261B		COLUMBIA GAS OF OHIO, INC.	D 360	306	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		261C		STATE OF OHIO	D 399	351	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		261D		COLUMBIA GAS OF OHIO, INC.	D 402	742	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		261E		THE OHIO EDISON COMPANY	D 402	525	UTILITY EASEMENT
				AN OHIO CORPORATION			DISTRIBUTION OF ELECTRIC CURRENT
263		263A	67	THE COUNTY OF ERIE	D 170	449	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
264		# 264A	67	GENE DAGUAU JR. AND JANICE DAGIAU	D 404	364	DRAIN TILE EASEMENT
267		# 267A	66-67	COLUMBIA GAS OF OHIO, INC.	D 359	109	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		# 267B		COLUMBIA GAS OF OHIO, INC.	D 359	115	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		267C		STATE OF OHIO	D 405	588	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		267D		THE OHIO EDISON COMPANY	D 410	152	UTILITY EASEMENT
				AN OHIO CORPORATION			TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		267E		STATE OF OHIO	D 410	435	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		267F		BOARD OF COUNTY COMMISSIONERS	D 417	72	COMMON PLEAS COURT PROPERTY TAKE
				OF ERIE COUNTY, OHIO			
		267G		THE OHIO EDISON COMPANY	D 458	359	UTILITY EASEMENT
				AN OHIO CORPORATION			DISTRIBUTION OF ELECTRIC CURRENT
		267H		COLUMBIA GAS OF OHIO, INC.	D 458	360	UTILITY EASEMENT
							PIPELINE
		267I		BOARD OF COUNTY COMMISSIONERS	D 566	245	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			WATER MAIN
		267J		BOARD OF COUNTY COMMISSIONERS	I 200100176		UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			SANITARY SEWER
268		268A	66-67	GALLOWAY ROAD ESTATES	P 20	29	35' BULIDING LINE ALONG
				SUBDIVISION NO. 2			FRONT OF KINGSLEY CIRCLE
		268B		GALLOWAY ROAD ESTATES	P 20	29	6' EASEMENT
				SUBDIVISION NO. 2			OHIO EDISON COMPANY
276		# 276A	67	THE OHIO EDISON COMPANY	D 234	302	UTILITY EASEMENT
				AN OHIO CORPORATION			TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		276B		COUNTY OF ERIE	I 200118355		HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		276C		COUNTY OF ERIE	I 200118356		HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		276D		ERIE COUNTY	I 200218931		STORM SEWER EASEMENT
							PERPETUAL EASEMENT & ROW
277		# 277A	67	COLUMBIA GAS OF OHIO, INC.	D 360	299	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		277B		OHIO BELL TELEPHONE COMPANY	D 430	396	UTILITY EASEMENT
							ROW AND EASEMENT FOR
							COMMUNICATION SYSTEM
		277C		ERIE COUNTY CABLEVISION,	I 200615920		UTILITY EASMENT AND RIGHT OF
				AN OHIO CORPORATION			ENTRY - PERPETUAL, NON-EXCLUSIVE
							EASEMENT FOR TELECOMMUNICATION
							TRANSMISSION LINES
		277D		ERIE COUNTY CABLEVISION,	I 200903293		UTILITY EASMENT AND RIGHT OF
				AN OHIO CORPORATION			ENTRY - PERPETUAL, NON-EXCLUSIVE
							EASEMENT FOR TELECOMMUNICATION
							TRANSMISSION LINES
279		279A	67	STATE OF OHIO	MISC 7	631	RIGHT OF WAY
							PERPETUAL PERMIT AND ROW
							FOR PUBLIC HIGHWAY AND ROAD
		279B		MARIE HEINZ	D 213	193	QUITCLAIM DEED
							VARIOUS UTILITY, LAND AND
							MINERAL EASEMENTS

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		279C		FREDERICK F. TIGHT AND	D 213	419	QUITCLAIM DEED
				MARJORIE H. TIGHT			TRANSFERS EASEMENTS FROM
							DEED V.213, P. 193
		# 279D		COLUMBIA GAS OF OHIO, INC.	D 360	304	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		279E		THE OHIO EDISON COMPANY	D 402	108	UTILITY EASEMENT
				AN OHIO CORPORATION			TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
280		# 280A	67	COLUMBIA GAS OF OHIO, INC.	D 360	304	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
							RIGHT OF INGRESS/EGRESS
		280B		STATE OF OHIO	D 396	770	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		280C		THE OHIO EDISON COMPANY	D 402	499	EASEMENT
				AN OHIO CORPORATION			TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
281		281A	67	STATE OF OHIO	MISC 7	631	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		281B		THE OHIO BELL TELEPHONE COMPANY,	MISC 8	76	UTILITY EASEMENT
				AN OHIO CORPORATION			
		N/A			OR 25	130	EASEMENT & ROW FOR
					OR 269	895	TELEPHONE & TELEGRAPH LINES
		281C		FRANCES L. MILLER	D 214	428	RESTRICTIONS ON DEED
							ON UTILITIES & LAND USE
		281D		DONALD C. HAMNER AND ANNABELLE	D 217	81	RESTRICTIONS ON DEED
				HAMNER			ON UTILITIES & LAND USE
		281E		THE OHIO EDISON COMPANY	D 402	110	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT & ROW FOR
							TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		281F		STATE OF OHIO	D 398	122	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		# 281G		COLUMBIA GAS OF OHIO, INC.	D 360	304	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		281H		COLUMBIA GAS OF OHIO, INC.	D 371	64	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		# 281I		COLUMBIA GAS OF OHIO, INC.	D 377	282	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		281J		THE OHIO EDISON COMPANY	D 402	601	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT & ROW FOR
							TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		281K		STATE OF OHIO	D 416	80	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
282		282A	66-67	STATE OF OHIO	MISC 7	631	HIGHWAY EASEMENT
							PERPETUAL PERMIT & ROW
		282B		THE OHIO BELL TELEPHONE COMPANY,	MISC 8	76	UTILITY EASEMENT
				AN OHIO CORPORATION			
		N/A			OR 25	130	EASEMENT & ROW FOR
					OR 269	895	TELEPHONE & TELEGRAPH LINES
		282C		FRANCES L. MILLER	D 214	428	RESTRICTIONS ON DEED
							ON UTILITIES & LAND USE
		282D		DONALD C. HAMNER AND ANNABELLE	D 217	81	RESTRICTIONS ON DEED
				HAMNER			ON UTILITIES & LAND USE
		# 282E		COLUMBIA GAS OF OHIO, INC.	D 360	304	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		282F		COLUMBIA GAS OF OHIO, INC.	D 371	64	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		# 282G		COLUMBIA GAS OF OHIO, INC.	D 377	282	UTILITY EASEMENT
							PIPELINE & SERVICE CONNECTIONS
		282H		STATE OF OHIO	D 398	122	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		282I		THE OHIO EDISON COMPANY	D 402	601	UTILITY EASEMENT
				AN OHIO CORPORATION			EASEMENT & ROW FOR
							TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT
		282J		STATE OF OHIO	D 416	80	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		282K		BOARD OF COUNTY COMMISSIONERS	OR 198	576	UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			WATER MAIN
284		# 284A	66-67	THE LAKE ERIE POWER & LIGHT COMPANY	MISC 6	410	UTILITY EASEMENT
							PERPETUAL EASEMENT FOR
							TELEPHONE, ELECTRIC LIGHT &
							POWER LINE, CABLE & CONDUITS
		# 284B		UNITED STATES OF AMERICA	MISC 7	541	UTILITY EASEMENT
							ROW WIDTH 66' FOR WATER PIPELINE
		284C		UNITED STATES OF AMERICA	MISC 7	598	UTILITY EASEMENT
							ROW WIDTH 66' FOR WATER PIPELINE
		284D		STATE OF OHIO	D 170	99	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		284E		THE STATE OF OHIO	D 170	101	AGREEMENT FOR CHANNEL CHANGE
		# 284F		THE OHIO PUBLIC SERVICE CO.,	MISC 8	104	UTILITY EASEMENT
				AN OHIO CORPORATION			
		284G		OHIO EDISON COMPANY	D 234	120	UTILITY EASEMENT
							EASEMENT & ROW FOR
							TRANSMISSION & DISTRIBUTION
							OF ELECTRIC CURRENT

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PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
		284H		G. & L. INVESTMENT, INC.	D 361	74	200' SEWER EASEMENT
				AN OHIO CORPORATION			FOR 8" DRAINAGE TILE
		284I		KWIE FANG LIEM	D 527	551	SEWER EASEMENT
							SANITARY OR STORM SEWER
		# 284J		THE OHIO EDISON COMPANY	D 550	506	UTILITY EASEMENT
							DISTRIBUTION
							OF ELECTRIC CURRENT
		284K		BOARD OF COUNTY COMMISSIONERS	OR 156	161	SEWER EASEMENT
				OF ERIE COUNTY			WATER MAIN & SANITARY SEWER
285		# 285A	67	MABELL I. HORTH	D 196	370	UTILITY EASEMENT
		285B		STATE OF OHIO	D 398	303	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		# 285C		OHIO EDISON COMPANY,	D 405	419	UTILITY EASEMENT
				AN OHIO CORPORATION			TRANSMISSION & DISTRIBUTION OF
							ELECTRIC CURRENT
		285D		BOARD OF COUNTY COMMISSIONERS	I 200012247		UTILITY EASEMENT
				OF ERIE COUNTY, OHIO			SANITARY SEWER
286		# 286A	67	UNITED STATES OF AMERICA	MISC 7	541	PIPE LINE EASEMENT
							ROW WIDTH 66' FOR WATER PIPE LINE
		286B		UNITED STATES OF AMERICA	MISC 7	598	PIPE LINE EASEMENT
							ROW WIDTH 66' FOR WATER PIPE LINE
		286C		STATE OF OHIO	D 398	306	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		286D		KWIE FANG LIEM	D 530	358	UTILITY EASEMENT
							SEWER LINES
		286E		OHIO EDISON COMPANY,	D 289	914	UTILITY EASEMENT
				AN OHIO CORPORATION			DISTRIBUTION OF ELECTRIC CURRENT
		286F		GTE NORTH INCORPORATED,	D 294	267	UTILITY EASEMENT
				A WISCONSIN CORPORATION			COMMUNICATION & ELECTRIC
287		287A	67	THE OHIO BELL TELEPHONE COMPANY	MISC 8	76	UTILITY EASEMENT
							FOR ROUTE MARKERS & CONDUIT/
							WIRES/CABLES OF OTHER COMPANIES
		287B		THE OHIO PUBLIC SERVICE COMPANY	D 202	369	12' UTILITY EASEMENT
							ELECTRIC ENERGY DISTRIBUTION
							& TRANSMISSION LINES
		287C		JOSEPH F. YOST AND HELEN G. YOST	D 213	73	UTILITY EASEMENT
							RESERVATIONS & RESTRICTIONS
							ON DEED
		287D		STATE OF OHIO	D 400	198	HIGHWAY EASEMENT
							PERPETUAL EASEMENT & ROW
		# 287E		RICHARD G. SCHUSTER	D 429	745	DRIVEWAY EASEMENT
							TO CONSTRUCT DRIVE IF TAYLOR

PARCEL NO.	LEASE NO.	EASMT. NO.	SHEET NO.	DESCRIPTION - GRANTEE / ASSIGNEE	AS ACQUIRED VOLUME	AS ACQUIRED PAGE	REMARKS
							ROAD IS VACATED OR FENCED
		# 287F		OHIO EDISON COMPANY,	I 9908768	914	UTILITY EASEMENT
				AN OHIO CORPORATION			GUY WIRES & ANCHORS
		# 287G		THE OHIO DEPARTMENT OF	I 9918885		SEWER EASEMENT
				TRANSPORTATION			(RE-FILE OF I 9918124)
		# 287H		STATE OF OHIO	I 200009804		LIMIT OF ACCESS
		287I		THE OHIO BELL TELEPHONE COMPANY	I 200004138		10' UTILITY EASMENT
				AKA AMERITECH OHIO INC.,			FOR TRANSMISSION OF SIGNALS
				AN OHIO CORPORATION			FOR COMMUNICATION, VIDEO
							OR OTHER INFORMATION SERVICES
		287J		CAMCO PROPERTIES, LLC,	I 200011227		INGRESS/EGRESS EASEMENT
				AN OHIO LIMITED LIABILITY COMPANY			

LEGEND:
D = DEED
I = INSTRUMENT NUMBER
RN = REGISTRATION NUMBER
OR = OFFICIAL RECORD
MISC = MISCELLANEOUS
P = PLAT
N/A = NOT APPLICABLE
= UNDETERMINED

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530

PID NO. 88407

STATE JOB NO. 43809

R/W DESIGNER JJ

R/W REVIEWER KCD

LEASE AND EASEMENT SUMMARY

ERI-250-0.00

26/26

57/178

556/677

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ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY
(FORMERLY PORTLAND TOWNSHIP)

DARLING'S SURVEY OF OUTLOTS
PER ANNEXATION OF THE CITY OF SANDUSKY
(PLAT VOL. 1, PG. 59

SOUTHWARK ADDITION OF OUTLOTS
(DEED VOL. 1, PG. 289)

BEGIN ACQUISITION
STA. 7+96.18

PI Sta. 4+98.86

PI Sta. 18+19.68

RESUME ACQUISITION
STA. 15+15.20

SUPEND ACQUISITION
STA. 1+50.00

SUPEND ACQUISITION
STA. 19+62.00

US 6 (CLEVELAND RD.)

US 250 (SYCAMORE LINE RD.)

US 250 (MILAN RD.)

SYCAMORE LINE RD.
(60' R/W)

FINCH ST.
(66' R/W)

DEWEY ST. (40' R/W)

MCKELVEY ST.
(66' R/W)

MILAN RD
(66' R/W)

BOALT ST.
(66' R/W)

LANE ST.
(66' R/W)

OUTLOT 15

57-060
-03.000

57-060
-03.002

57-01553.000

57-015
53.001

57-047
56.001

57-047
56.000

57-04191.000

57-04191.001

57-01738.000

57-03502.000

57-041
-48.000

57-041
-49.000

Ex R/W

N

HORIZONTAL
SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 4+00 TO STA. 21+50

ERI-250-0.00

1 / 10
58 / 178
557 / 677

REV. BY	DATE	DESCRIPTION
JJ	11/14/13	PAR. 22; ADD AUD. # AND EASEMENT 22A

DATE COMPLETED 9/12/13

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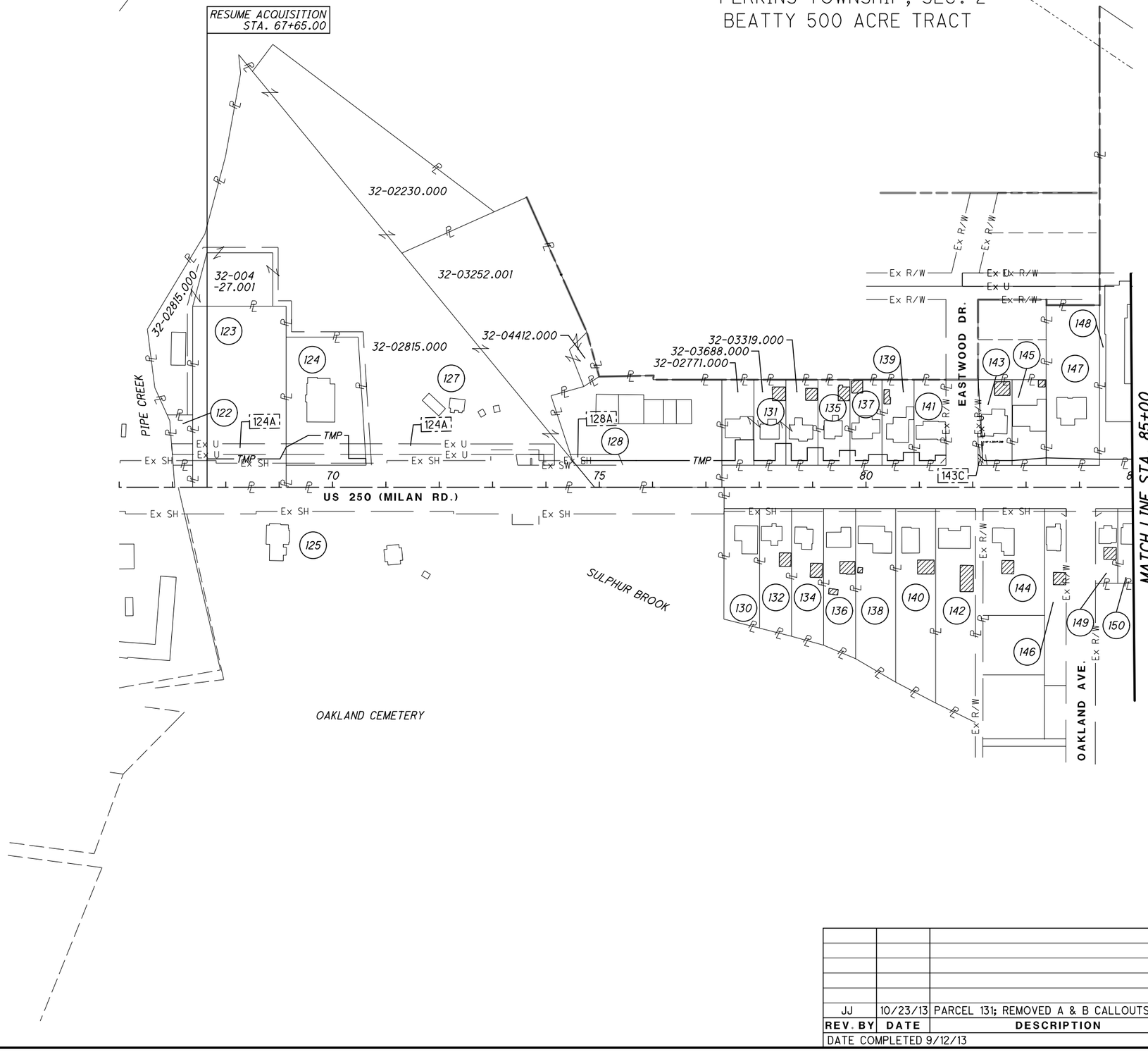
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
BEATTY 500 ACRE TRACT



REV. BY	DATE	DESCRIPTION
JJ	10/23/13	PARCEL 131; REMOVED A & B CALLOUTS

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 66+00 TO STA. 85+00

ERI-250-0.00

2 / 10
59 / 178
558 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOT 39&40

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 85+00 TO STA. 107+00

ERI-250-0.00

MATCH LINE STA. 85+00

MASSEY BOULEVARD
LAKE CREST PARKWAY
STRUB RD.
RUM RD.
FORCE AVE.
DEWITT AVE.
WOODLAWN AVE
US 250 (MILAN RD.)
HALLAM TRACT
BEATTY 500
LOT 39
LOT 40
LOT 41

SUPEND ACQUISITION
STA. 100+33.45

PC Sta. 97+12.09
PT Sta. 99+44.58

32-04634.000
32-00724.000
32-04632.500
32-00725.000
32-03676.000
32-03676.000

Ex U
Ex R/W
Ex SW
Ex SH
MS
TMP
ROW

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

3 / 10
60 / 178
559 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 31,32,33,40,41,42,&43

STRUB RD.
Ex R/W
Ex U
Ex SW
Ex SH
RESUME ACQUISITION STA. 121+55.97
LOT 41
LOT 42
LOT 43
LOT 31
LOT 32
LOT 33
LOT 16
LOT 17
LOT 18
US 250 (MILAN RD.)
MATCH LINE STA. 129+00
31-03119.001
182G,184H,186E
182H,184M,186F,187G
184L,186D,187F
184Z,186K,187T
180I
180D,184F
184E
182L
183I
184Y
185L
184R,187X
182F,184G,185C,186C
182E,183E,185,186S,187E
185F
186O,187U
186P,187V,184AA
179L,181H,191G
179M,179Q,179R,179U,179W,190G
179J
179H
179I
179G,181G,191F,205F
179L,181H,191G
179K,179P,179S,179T,179V,190F
179O
110
115
120
125
180
181
182
183
184
185
186
187
179
300
301
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HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 109+00 TO STA. 129+00

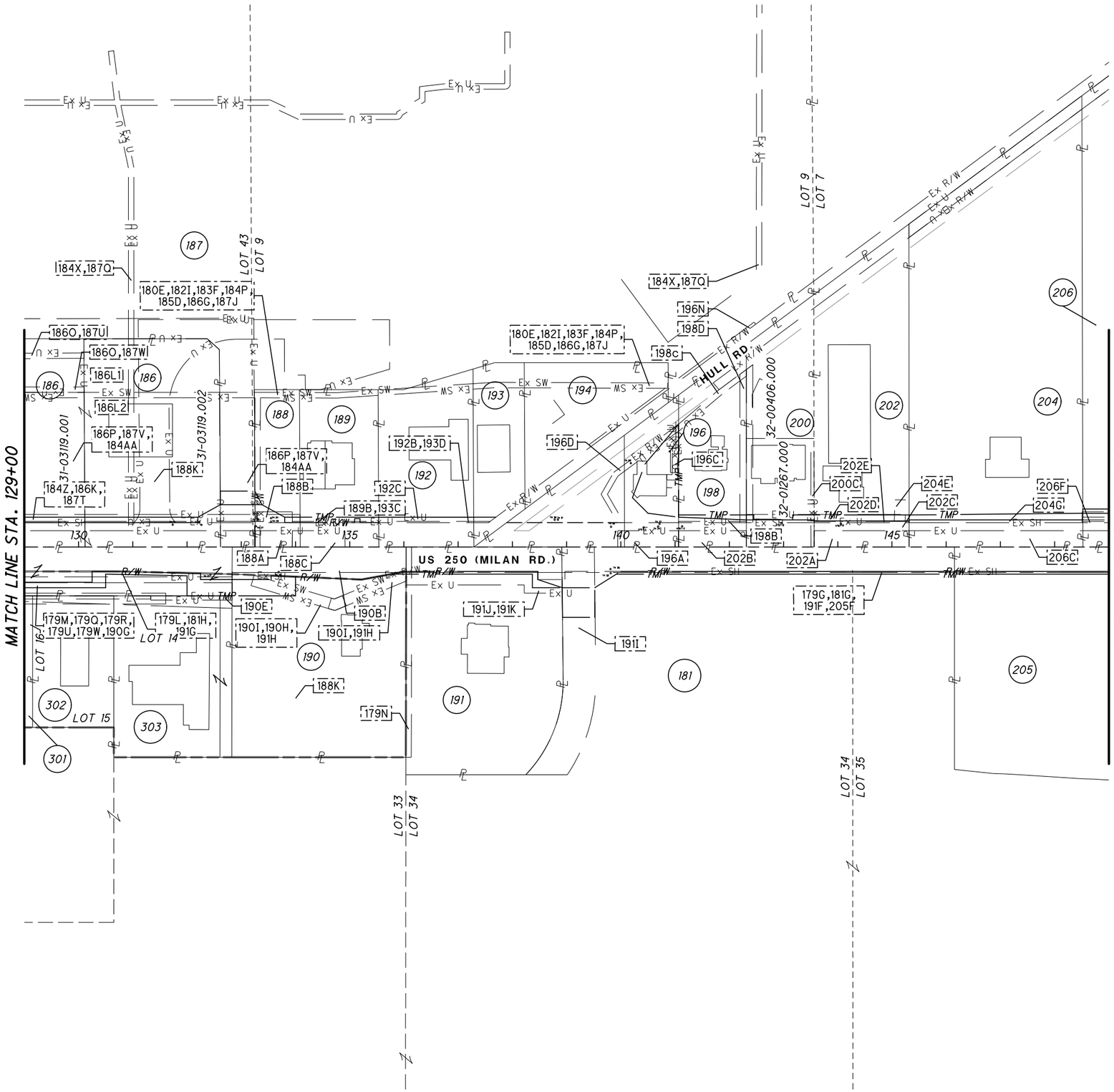
ERI-250-0.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

4 / 10
61 / 178
560 / 677

ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 7,9,33,34,35,&43



REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 129+00 TO STA. 149+00

ERI-250-0.00

5 / 10
62 / 178
561 / 677

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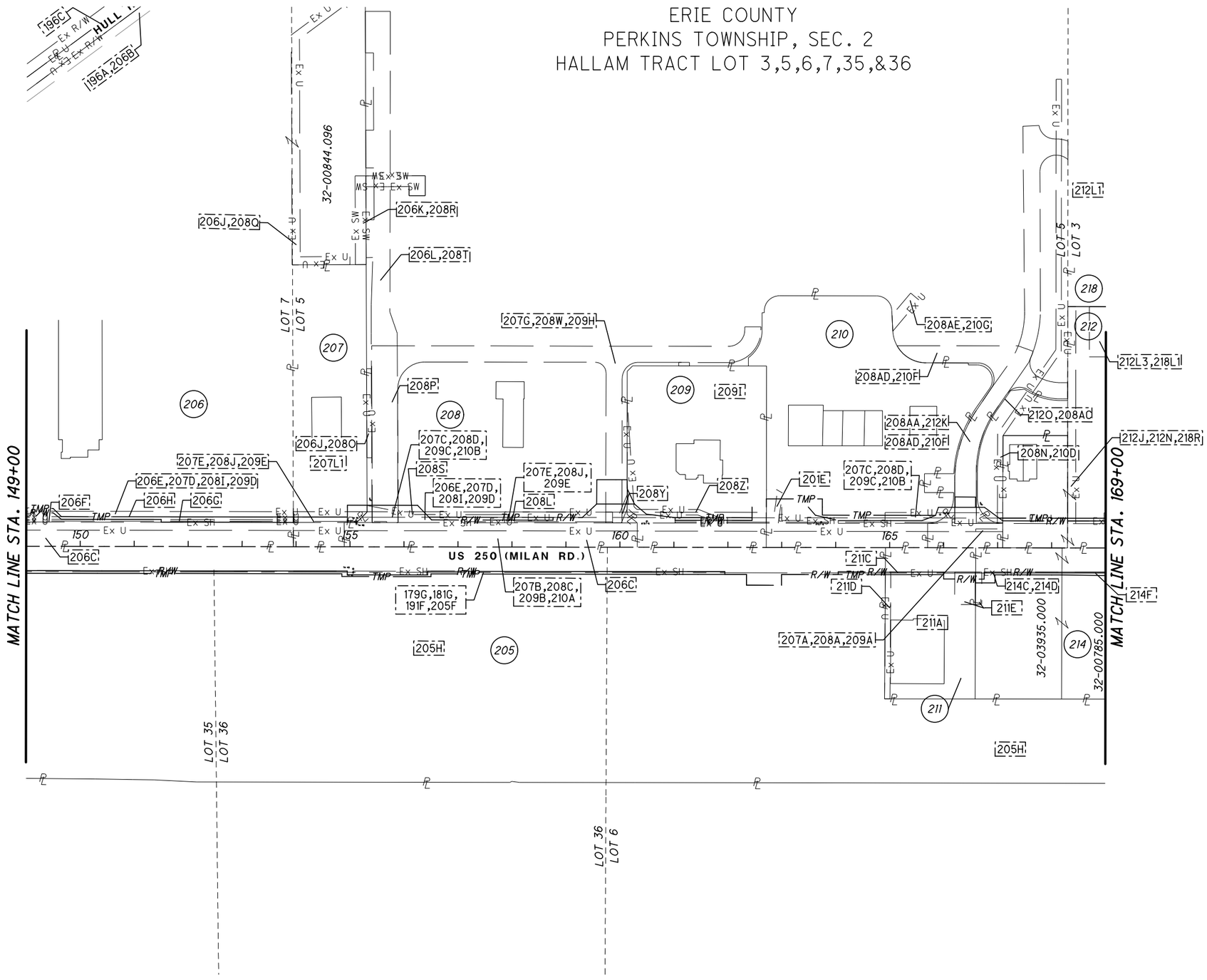
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 3,5,6,7,35,&36



REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 149+00 TO STA. 169+00

ERI-250-0.00

6 / 10
63 / 178
562 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 2,3,4,&6

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 169+00 TO STA. 192+00

ERI-250-0.00

7 / 10
64 / 178
563 / 677

MATCH LINE STA. 169+00

MATCH LINE STA. 192+00

US 250 (MILAN RD.)

PARK PLACE NORTH DR.

CROSSING RD. 60' R/W

FUN DR. 60' R/W

LOT 6
LOT 4

32-00785.000
32-00864.000
32-00863.000
32-03494.01
32-04397.000
32-023 -55.000
32-019 -99.000
32-022 -84.000
32-021 -63.000
32-034 -39.006

PT Sta. 190+10.84

223B,226O,227V, 233Y,236P
233W-VACATED
226L1
212L1
212L3,218L1
212G
212M,218O
218P
220L1
225H
220L3
225L1
218N,223F,227Y,233AG
218M,218N,223D
212H,218O
236I,227H,233E
226V,245W
220M,220N
221B,227T,233S, 236N,245O
212E,218J,220J, 227K,233H
218L,220L
223A
225G
227H,236I, 233E
233AF
231D
231F
231E
230D
231C
236N,245O, 227T-(6)
236V,236W
238K,245N
238C,240C
238B,240B, 245B,233B
236X
236J
236H
230A
231A
231B
236B
236K,238L
237A
237L1
235B
224A,228A,229A
219D
219E
224B,228B, 229B
229F
212D,218G,220G,225D, 226E,227F,236G
215D
215C
215A
217C
217B
217G
217E,217F
TMP
R/W
Ex U
Ex SW
MS
Ex SH
Ex R/W
PL

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 1,2,&3

MATCH LINE STA. 192+00

MATCH LINE STA. 211+00

860 ACRE TRACT
LOT 4
LOT 3
HALLAM TRACT

860 ACRE TRACT
LOT 4
LOT 1
HALLAM TRACT

S. PARK PL.

BAY WINDS DR.

RAMP 'A'

RAMP 'B'

SR 2

US 250 (MILAN RD.)

LOT 2
LOT 1

32-03968.000

32-04334.001

236T,233AM

247A

240K,226Z,
233AL

218A,220A,226A,227A,
233A,238A,240A,245A

245V,233AC

226L2,226L5,
226L6,233L2

245J,238J,
240J

236N,245O,
227T,233S

233AD

227T,233S,
236N,245O

247L1

240L

233F,238H,
240H,245H

204F

233I,245K

241N

246E

224A,228A,
229A

248E

248H

248F

238K,245N

195 200 205 210

226 238 233 245 247 251 240 405 239 242 241 243 246 248 244

Ex U Ex SW Ex R/W Ex LA TMP R/W LA

JJ	9/10/14	ADD ST. NAMES (BAY WINDS & S. PARK PL.)
REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 192+00 TO STA. 211+00

ERI-250-0.00

8 / 10
65 / 178
564 / 677

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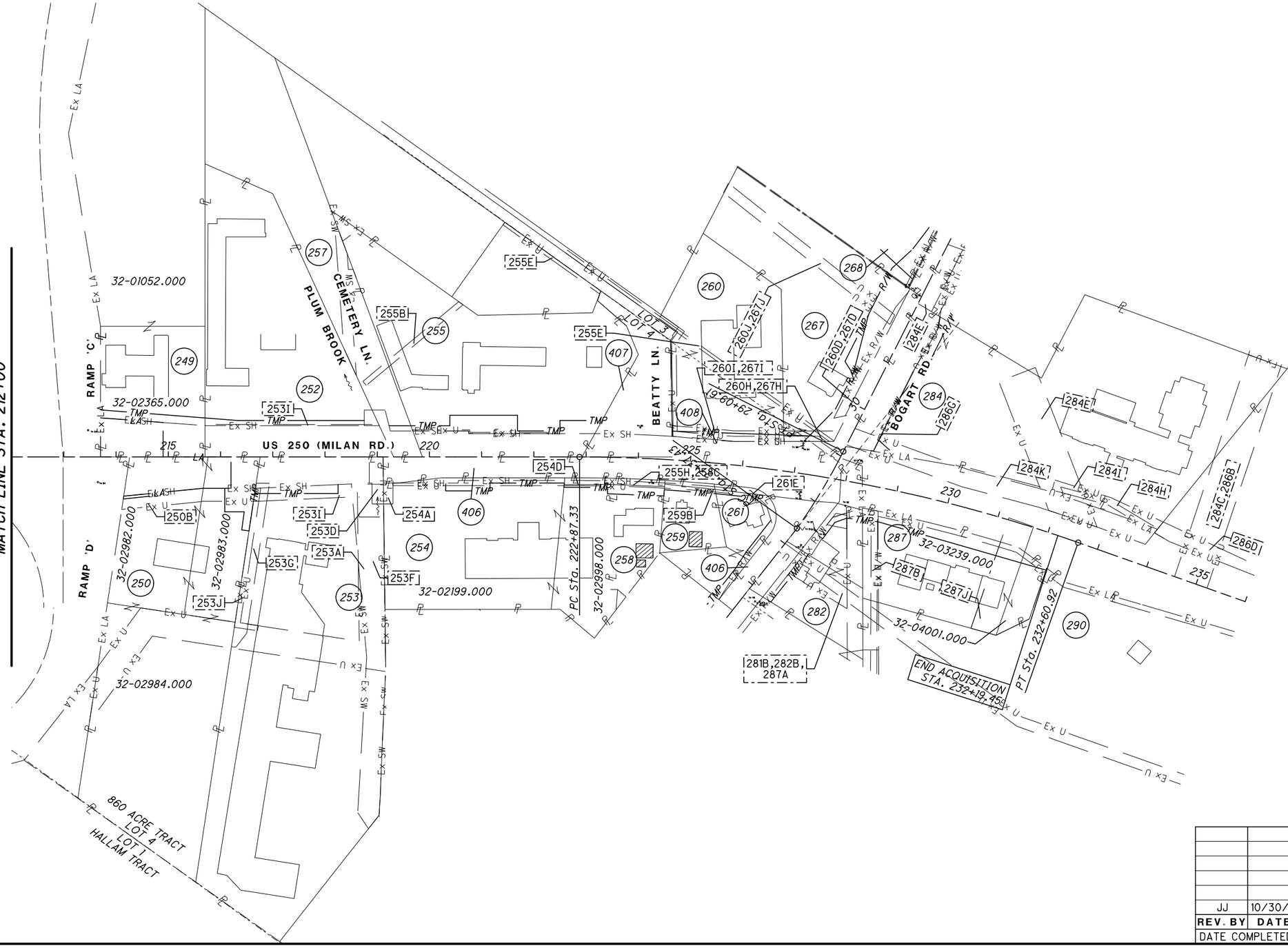
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
HALLAM TRACT LOTS 1
860 ACRE TRACT LOTS 3&4
1620 ACRE TRACT LOTS 8,9,&10



REV. BY	DATE	DESCRIPTION
JJ	10/30/13	ADDED PARCEL 290

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 212+00 TO STA. 236+00

ERI-250-0.00

9 / 10
66 / 178
565 / 677

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ERI-250-0.00

ERIE COUNTY

PERKINS TOWNSHIP, SEC. 1 & SEC. 2

HALLAM TRACT LOT 1

860 ACRE TRACT LOTS 3&4

1620 ACRE TRACT LOTS 8,9,&10

REV. BY	DATE	DESCRIPTION
JJ	10/30/13	ADDED PARCEL 290

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET: 0, 50, 100, 200

PID NO. 88407

R/W DESIGNER JJ

R/W REVIEWER DAP

LEASE AND EASEMENT MAP
STA. 360+00 TO STA. 386+50

ERI-250-0.00

10 / 10

67 / 178

566 / 677

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TOTAL NUMBER OF :

184 OWNERSHIPS
203 PARCELS
2 TOTAL TAKES
1 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	OWNERS RECORD INSTRUMENT OR PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
1 - 9	NOT USED													FED 80% STATE 20%			
10	TERRIE L RHODE & THOMAS C RHODE SR.	93-94			57-01426.000	0.1455 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
11	JOHN D & EDDA MARIE KAISER	93-94			57-02366.000	0.1758 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
12	STEIN HOSPICE SERVICE INC	93-94			57-68040.000	2.3033 (C)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
13	NYLE W OLDS JR	93-94			57-04141.000	0.2117 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
14	MARDELLA A MARQUART	93-94			57-02976.000	0.1038 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
15	NOT USED																
16	LAVONE A WYNN TRUSTEE	93-94			57-04549.000	0.1715 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
17	SCOTT NORTON	93-94			57-02712.000	0.1296 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
18	ANDREW D THOM	93-94			57-02826.000	0.1189 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
19	DONALD R. YOST SR	93-94			57-05385.000	0.1047 (A)								FED 80% STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		

LEGEND:
(A) = AUDITOR
(C) = CALCULATED
(D) = DEED
WD = WARRANTY DEED
DV = DEED VOLUME
OR = OFFICIAL RECORD
SH = STANDARD HIGHWAY EASEMENT
SL = SLOPE EASEMENT
T = TEMPORARY EASEMENT
PRE = PROPERTY RIGHT
CH = CHANNEL EASEMENT
V = IN THE NAME OF ANOTHER STATE AGENCY, LPA

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE STATE OF OHIO UNLESS OTHERWISE SHOWN.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
20-WD	THE CITY OF SANDUSKY, OHIO	93-94	DV 128	243	N/A	0.0835 (C.)	0.0000	0.0264	0.0000	0.0264			0.0571	FED 80%	NO ASSIGNED AUDITOR'S PERMANENT PARCEL NUMBER		
			DV 128	233	N/A	0.0347 (C.)	0.0000	0.0000	0.0000	0.0000			0.0347	STATE 20%	NO ASSIGNED AUDITOR'S PERMANENT PARCEL NUMBER		
	TOTAL					0.1182	0.0000	0.0264	0.0000	0.0264			0.0918				
21	S & S REALITY LTD	93-94			57-06003.002	0.6962 (C)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
					57-06003.000	1.1419 (A)											
22-WD	NIEHM BROS., LLC, AN OHIO LIMITED LIABILITY	93-96	OR 312	463	57-04756.000	0.2401 (A)	0.0000	0.0099	0.0000	0.0099		0.2302					
	COMPANY, FNA NIEHM BROS. PARTNERSHIP, AN OHIO				57-01553.001	0.0404 (A)	0.0000	0.0000	0.0000	0.0000		0.0404					
	GENERAL PARTNERSHIP CONSISTING OF JAMES B.														FOR GRADING, SIGN ENCROACHMENT (AERIAL)		
	NIEHM AND RICHARD S. NIEHM														DO NOT DISTURB SIGN		
	TOTAL					0.2805	0.0000	0.0099	0.0000	0.0099		0.2706					
22-T		93-96						0.0056	0.0000	0.0056	S (2)*				FOR GRADING, SIGN ENCROACHMENT (AERIAL)		
															DO NOT DISTURB SIGN		
23	NOT USED																
24	JEAN-PIERRE & ANNE D VANRAEPENBUSCH TRUSTEES	95-96			57-01553.000	1.0315 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
					57-04756.001	0.0229 (A)											
25-32	NOT USED																
33-WD	FRANK M KENSKI	95-96	OR 433	836	57-02454.000	0.0626 (A)	0.0000	0.0017	0.0000	0.0017			0.0609				
34	LETA BUSH	95-96			57-00627.000	0.0477 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
														FED 80%			
35-38	NOT USED													STATE 20%			

LEGEND:
(A) = AUDITOR
(C) = CALCULATED
(D) = DEED
WD = WARRANTY DEED
DV = DEED VOLUME
OR = OFFICIAL RECORD
SH = STANDARD HIGHWAY EASEMENT
SL = SLOPE EASEMENT
T = TEMPORARY EASEMENT
PRE = PROPERTY RIGHT
CH = CHANNEL EASEMENT
V = IN THE NAME OF ANOTHER STATE AGENCY, LPA

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE STATE OF OHIO UNLESS OTHERWISE SHOWN.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
JJ	11/14/13	PAR. 22; ADDED AUDITOR PARCEL

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

2/24
69/178
568/677

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
39-WD	CAROL VOGLER-BRIGHT	95-96	200508102		57-02765.000	0.0695 (A)	0.0000	0.0029	0.0000	0.0029			0.0666	FED 80%			
														STATE 20%			
39-T		95-96						0.0019	0.0000	0.0019					FOR GRADING		
40-T1	R-C SMITH & ASSOCIATES, LTD,	95-96	201400671		57-04557.000	0.0859 (A)		0.0013	0.0000	0.0013					FOR GRADING, HOUSE CORNER ENCROACHES		
40-T2	AN OHIO LIMITED LIABILITY COMPANY							0.0081	0.0000	0.0081					FOR DRIVE AND GRADING, HOUSE CORNER ENCROACHES		
41-WD	MIOU FU LIU AKA FU M LIU	95-96	OR 559	734	57-04619.000	0.1653 (A)	0.0000	0.0047	0.0000	0.0047			0.1606				
41-T		95-96						0.0077	0.0000	0.0077					FOR DRIVE AND GRADING		
42	S & S REALTY LTD				57-04191.000	15.0801 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
43 - 59	NOT USED																
60-WD1	BBD PROFESSIONAL PROPERTY MANAGEMENT, LLC	97-98	201101713		57-01738.000	2.8188 (A)	0.0000	0.0000	0.0000	0.0000							
	(AN OHIO LIMITED LIABILTY COMPANY)				57-03502.000	0.9065 (A)	0.0000	0.0055	0.0000	0.0055		0.9010			NET RESIDUE 60WD1 = 0.9010 ACRES		
60-WD2		97-98			57-01738.000		0.0000	0.0000	0.0000	0.0000					NET RESIDUE 60WD2 = 0.9009 ACRES		
					57-03502.000		0.0000	0.0056	0.0000	0.0056	LS	0.9009			LANDSCAPE AREA AND BUSHES REMOVED		
60-WD3		97-98			57-01738.000		0.0000	0.0014	0.0000	0.0014		2.8174			NET RESIDUE 60WD3 = 2.8174 ACRES		
					57-03502.000		0.0000	0.0000	0.0000	0.0000							
	60-WD1 & 60-WD2 & 60-WD3 TOTAL					3.7253	0.0000	0.0125	0.0001	0.0125		3.7128					
60-T		97-98			57-01738.000			0.0000	0.0000	0.0000							
					57-03502.000			0.0049	0.0000	0.0049							
	TOTAL							0.0049	0.0000	0.0049					FOR GRADING		
61-WD	4 POINTS BAR, LLC AN OHIO LIMITED LIABILITY COMPANY	97-98	201303720		57-04640.000	0.2308 (C)	0.0000	0.0043	0.0000	0.0043							
62	JASON J ROTH & JAMIE L FITZHUM	97-98			57-01571.000	0.2288 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
63	ROBERT W & BERNICE BILLMAN	97-98			57-00350.000	0.2515 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
														FED 80%			
														STATE 20%			
64	NOT USED																

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* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
DAP	4/29/14	PAR. 60; REVISED NET RESIDUE
JJ	4/18/14	PAR. 60; ADDED PARCEL 60-WD3
JJ	2/12/14	PAR. 40; REVISED NEW OWNERSHIP

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
65	TIMOTHY M & SHENELL A HINTON	97-98			57-04906.000	0.3153 (A)								FED 80% STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		
66	LISA A SEWARD	97-98			57-03061.000	0.3281 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
67	LOUIS A & THELMA L BONI	97-98			57-04148.000	0.2894 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
					57-04149.000	0.2500 (A)											
68-WD	SANDRA L MAGI	97-98	200101071		57-04995.000	0.3510 (A)	0.0000	0.0037	0.0000	0.0037	S	0.3473			COMMERCIAL SIGN TO BE REMOVED		
			DV 533	592											LAND CONCTRACT - WILLIAM D. PALMER & JUDITH K. PALMER		
69-121	NOT USED																
122	MARCIA J KILBANE, TRUSTEE	99-100			32-02815.001	0.0873 (A)					S				NO ADDITIONAL RIGHT OF WAY REQUIRED ADC PERMIT NO. 30890 & 30891		
123-T	HARALAMBOS GONOS	99-100	201104361		32-00427.000	1.3629 (A)		0.0285	0.0000	0.0285					FOR DRIVE AND GRADING		
124-T	HARALANBOS GONOS ALSO KNOWN AS HARALAMBOS GONOS	99-102	200109490		32-00426.000	0.7851 (A)		0.1362	0.0000	0.1362	S(2)				REMOVE DRIVES, RECONSTRUCT PAVEMENT, AND GRADING DO NOT DISTURB ENTER AND EXIT SIGN		
125	CITY OF SANDUSKY	99-104			32-63001.000	104.5746 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
126	NOT USED													FED 80% STATE 20%			

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REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
127	ROGER L. ANDREWS, TRUSTEE	99,101-102	201009820		32-02815.000	5.2900 (A)					S			FED 80%	NO ADDITIONAL RIGHT OF WAY REQUIRED		
					32-03252.001	1.7019 (A)								STATE 20%	ADC SIGN PERMIT NO. 25646 & 27721		
					32-00427.001	0.3140 (A)											
					32-04412.000	0.0684 (A)											
					32-02230.000	2.0652 (A)											
128-T	3104 MILAN INVESTMENTS, LTD., AN OHIO LIMITED LIABILITY COMPANY	101-104	200400141		32-04538.000	1.3421 (A)		0.0302	0.0000	0.0302					FOR WALK AND GRADING		
129	NOT USED																
130	JENNIFER D. MILLER	103-104	OR 439	610	32-01160.000	0.3237 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
131-T1	THOMAS W. KARCHER	103-104	200304800		32-02771.000	0.2207 (C)		0.0382	0.0000	0.0382					FOR DRIVE AND GRADING		
131-T2		103-104	200711176		32-03688.000	0.2207 (C)		0.0216	0.0000	0.0216					FOR DRIVE AND GRADING		
131-T3		103-104	200513622		32-03319.000	0.2207 (C)		0.0252	0.0000	0.0252					FOR DRIVE AND GRADING		
	TOTAL					0.6621 (C)		0.0850	0.0000	0.0850							
132	DANIEL L BRENNAN	103-104	DV 529	13	32-02444.000	0.3150 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
133	NOT USED																
134	BARRY K HARGROVE & DEBORAH D HARGROVE	103-104	DV 404	163	32-01501.000	0.3306 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
135-T	HARRY MCCLUSKY	103-104	OR 413	933	32-03010.000	0.2157 (A)		0.0211	0.0000	0.0211					FOR DRIVE AND GRADING		
														FED 80%			
136	NANCY A CHIOW	103-104	201103481		32-03806.000	0.3650 (A)								STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		

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REV. BY	DATE	DESCRIPTION
JJ	7/17/14	PARCEL 127; ADD SHEET 99
JJ	10/23/13	PARCEL 131; COMBINED 131-T1, T2 & T3

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
137-T	SHAWN M TOVAR	103-106	201210278		32-01645.000	0.2157 (A)		0.0176	0.0000	0.0176				FED 80%	FOR DRIVE AND GRADING		
														STATE 20%			
138	BRUNO T LIZZI & MARY LOU LIZZI	103-106	DV 352	455	32-02207.000	0.4941 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
139-T	KENT C. MADISON, III	105-106	201001017		32-00324.000	0.2157 (A)		0.0163	0.0000	0.0163					FOR DRIVE AND GRADING		
			201401419														
			201406048														
140	DIANA SCHECK & MARY E KARCHER	105-106	2000803805		32-01648.000	0.4390 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
141-T	ELHAJ REAL ESTATE, LLC	105-106	200702416		32-03497.000	0.2149 (A)		0.0138	0.0000	0.0138					FOR DRIVE AND GRADING		
142	KAREN BALCONI GHEZZI & BONNIE L BALCONI	105-106	200500347		32-00149.000	0.6026 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
143-T	MAURICE H BRAGG & BETTY J BRAGG TRUSTEES OF THE BRAGG FAMILY REVOCABLE LIVING TRUST, UAD SEPTEMBER 01, 1998	105-106	OR 417	717	32-00043.000	0.2282 (A)		0.0079	0.0000	0.0079					FOR GRADING		
144	DIANA SCHECK & MARY E KARCHER TRUSTEE	105-106	200803805		32-00519.000	0.5326 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
145-T	ELOISE M. JOHNSON, NKA, ELOISE M RHODES	105-106	DV 533	340	32-00391.000	0.2302 (A)		0.0110	0.0000	0.0110					FOR DRIVE AND GRADING		
			OR 27	354													
146	MARY E KARCHER & DIANA SCHECK	105-106	200902255		32-01803.000	0.2892 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
147-T	MARY E KARCHER, TRUSTEE OF THE WILLIAM C. KARCHER AND MARY E. KARCHER TRUST	105-106	20092255		32-02559.000	0.6795 (A)		0.0201	0.0000	0.0201				FED 80%	FOR DRIVE AND GRADING		
			200803805											STATE 20%			
			200115110														

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REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 139; REVISED OWNERSHIP NAME

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
148-T	MILAN II COMPANY, LTD., AN OHIO LIMITED LIABILITY	105-108	9902479		32-04350.000	3.5229 (A)		0.0486	0.0000	0.0486	S			FED 80%	FOR DRIVE, CURB AND GRADING		
	COMPANY													STATE 20%	DO NOT DISTURB COMMERCIAL SIGN		
149	ELEANOR L VOJTASH	105-106	201203314		32-00749.000	0.1280 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
150	JASON THOM & TABITHA THOM	105-108	200406312		32-00676.000	0.1249 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
151	MATTHEW R MAPUS	107-108	200305311		32-02617.000	0.1561 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
															FOR CURB AND GRADING		
152-T1	S & S REALITY LTD., AN OHIO LIMITED LIABILITY	107-108	200004771		32-03737.000	2.0489 (A)		0.0103	0.0000	0.0103	S				EXIT SIGN TO BE RELOCATED BY OWNER		
	COMPANY																
152-T2								0.0028	0.0000	0.0028					FOR GRADING		
153-T	ANDREW K TAM & FLORENCE Y TAM	107-108	200610807		32-04351.000	0.7500 (A)		0.0191	0.0000	0.0191	S(3)				FOR GRADING		
															COMMERICAL SIGN, EXIT SIGN, AND ENTER SIGN		
															DO NOT DISTURB		
154-T1	CORSO REALTY, INC., AN OHIO CORPORATION	107-112	DV 526	372	32-04634.000	7.3500 (A)		0.0056	0.0000	0.0056					FOR GRADING		
154-T2			DV 526	372	32-04634.000	7.3500 (A)		0.1261	0.0000	0.1261	*				REMOVE LANDSCAPPING & WATER SPIGOT		
			DV 221	525	32-00724.000	0.6600 (A)		0.0331	0.0000	0.0331	*				REMOVE LANDSCAPING, WATER SPIGOT & ELEC. OUTLET		
			200200334		32-04632.500	21.7637 (A)		0.0165	0.0000	0.0165							
			200100520		32-00725.000	0.6545 (A)		0.0305	0.0000	0.0305							
	TOTAL							0.2062	0.0000	0.2062					REMOVE 4 DRIVE APRONS, RECONSTRUCT 1 DRIVE, CONSTRUCT 1 DRIVE AND FOR GRADING		
155-T	ROBERT H ROUTH & SALLY E ROUTH	107-108	OR 440	69	32-00969.000	0.4300 (A)		0.0764	0.0000	0.0764	S(2)				FOR DRIVE AND GRADING, REMOVE ENTRANCE SIGN, DO NOT DISTURB CALDWELL BANKER SIGN		
156-T	THOMAS E COSGROVE	107-108	201104414		32-01990.000	0.1770 (A)		0.0088	0.0000	0.0088					FOR DRIVE AND GRADING		
157-T	AUGUST J CORSO AND LINDA C CORSO	107-108	OR 27	839	32-00731.000	0.1770 (A)		0.0079	0.0000	0.0079				FED 80%	FOR GRADING		
			DV 527	573										STATE 20%			

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REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
158-T	JASON C MING & JANICE H MING	107-108	DV 562	214	32-01248.000	0.7690 (A)		0.1492	0.0000	0.1492	S			FED 80%	FOR DRIVE AND GRADING		
														STATE 20%	LAYOUT REVISED PARKING		
															COMMERCIAL SIGN DO NOT DISTURB		
159-T	SANDUSKY SKATE WORLD PROPERTIES LLC, A	107-108	200324712		32-03062.000	5.9422 (A)		0.0417	0.0000	0.0417	S				FOR DRIVE AND GRADING		
	LIMITED LIABILITY COMPANY		200107544												COMMERCIAL SIGN DO NOT DISTURB		
			201306324														
			201306583														
160-T	O ICE LLC	107-110	200712770		32-03676.000	0.8719 (A)		0.0238	0.0000	0.0238	S				COMMERCIAL SIGN DO NOT DISTURB		
161-T	KAKIKA ENTERPRISES, LTD., AN OHIO	109-110	200910999		32-04811.000	0.3488 (A)		0.0183	0.0000	0.0183					REMOVE DRIVE AND GRADING		
	LIMITED LIABILITY COMPANY														COMMERICAL SIGN DO NOT DISTURB		
162-T	250 CENTRE, LTD., AN OHIO LIMITED LIABILITY	109-110	200514011		32-04809.000	1.0004 (A)		0.0103	0.0000	0.0103	S				REMOVE DRIVE AND GRADING		
	COMPANY				32-04809.002	1.2130 (A)		0.0000	0.0000	0.0000					ENTER SIGN TO BE REMOVED		
	TOTAL					2.2134		0.0103	0.0000	0.0103							
163-T	REALITY INCOME CORPORATION, A MARYLAND	109-110	OR 370	309	32-00790.000	1.2022 (A)		0.0278	0.0000	0.0278					REMOVE DRIVE AND GRADING		
	CORPORTATION																
164-166	NOT USED																
167	JAMES A JUSTI & FATIMA B.O. JUSTI	109-110	DV 463	307	32-01802.000	0.2556 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
168	RALPH D BULLION	109-110	200713920		32-00518.000	0.1322 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
169	ANDREW BARISCH	109-112	201108619		32-02168.000	0.2586 (A)								FED 80% STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		

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REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 162; ADD AUD PAR NO. & CHG REMARKS
JJ	5/22/14	PAR. 159; ADDED TWO NEW DEED REF.
JJ	10/29/13	PAR. 161; CORRECTED RECORD AREA

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
170	LISA KROMER	111-112	DV 379	340	32-02035.000	0.1293 (A)								FED 80%	NO ADDITIONAL RIGHT OF WAY REQUIRED		
														STATE 20%			
171	DR RICK MC KINNEY & SHEILA MCKINNEY	111-112	200603977		32-02327.000	0.1455 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
172	CRAIG A OLEMACHER & MARY H REAGAN-OHLEMACHER	111-112	DV 392	74	32-00382.000	0.1424 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
173	NOT USED																
174	PRO CLEAN LASERWASH LTD	111-114	200316046		32-03444.000	1.1077 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
175-T	SANDBORO LIMITED PARTNERSHIP, AN OHIO LIMITED PARTNERSHIP	111-114	200713975		32-03356.009	2.1889 (A)		0.0877	0.0000	0.0877					FOR GRADING		
176	MAPLE CITY BUILDERS LLC	113-114	200810265		32-03356.010	6.2067 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED R/W PER ERI-250-1.92 PID NO. 83548		
177	STATE OF OHIO AKA STATE OF OHIO SOLDIERS AND SAILORS HOME AKA STATE OF OHIO VETERANS HOME	113-114	200802967		32-61002.000	89.4000 (D.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
178	NOT USED																
179-WD	PERKINS LAND INVESTMENTS, LTD., ON OHIO LIMITED LIABILITY COMPANY	115-120	201301084		32-04906.003	1.3311 (A)	0.9656	1.1091	0.9656	0.1435							
			201301081		32-04906.001	0.8379 (A)	0.0000	0.0188	0.0000	0.0188							
			200407754		32-04588.000	1.3274 (A)	0.0000	0.0000	0.0000	0.0000							
	TOTAL					3.4964	0.9656	1.1279	0.9656	0.1623			2.3685				
179-T1					32-04906.003			0.0801	0.0000	0.0801							
					32-04906.001			0.0322	0.0000	0.0322							
	TOTAL							0.1123	0.0000	0.1123				FED 80%	FOR DRIVE AND GRADING		
179-T2					32-04906.003			0.1508	0.0000	0.1508				STATE 20%	FOR DRIVE AND GRADING		

LEGEND:
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* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
KCD	10/23/13	PAR 179, ADD AUD. No.32-04906.001
DATE COMPLETED 9/12/13		

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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575 / 677

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
180	HOTY 250 TARGET LTD	115-116	201108496		32-01235.000	0.9980 (A)								FED 80%	NO ADDITIONAL RIGHT OF WAY REQUIRED		
														STATE 20%	R/W PER ERI-250-1.92 PID NO. 83548		
181-WD1	THE WAGNER QUARRIES COMPANY, AN OHIO	115-118	DV 505	278	32-04906.000	53.1598 (A)	0.4967	0.0058	0.0012	0.0046	S		52.6585		ADC SIGN PERMIT NO. 25896 & 25897		
	CORPORATION, NOW KNOWN AS HANSON AGGREGATES	123-124	DV 95	102	32-03745.000	1.7400 (A)	0.2540	0.0000	0.0000	0.0000			1.4860				
	MIDWEST, INC., A KENTUCKY CORPORATION	127-128			32-03755.000	6.5100 (A)	0.4077	0.0000	0.0000	0.0000			6.1023				
					32-03740.000	2.4500 (A)	0.1681	0.0000	0.0000	0.0000			2.2819				
					32-03741.000	1.7700 (A)	0.0000	0.0000	0.0000	0.0000			1.7700				
					32-03742.000	3.4000 (A)	0.0000	0.0000	0.0000	0.0000			3.4000				
					32-03743.000	0.9400 (A)	0.0000	0.0000	0.0000	0.0000			0.9400				
					32-03744.000	2.6000 (A)	0.0000	0.0000	0.0000	0.0000			2.6000				
					32-03746.000	0.3000 (A)	0.0302	0.0000	0.0000	0.0000			0.2698				
					32-03747.000	30.9600 (A)	0.4925	0.0000	0.0000	0.0000			30.4675				
					32-03748.000	93.6800 (A)	0.0000	0.0000	0.0000	0.0000			93.6800				
181-WD2			DV 118	232	32-03750.000	71.5677 (A)	0.7495	0.8057	0.7495	0.0562			70.7620		REMOVE 42' OF SPLIT RAIL FENCE, ADC # 13583 & 13584		
					32-03751.000	34.4800 (A)	0.7180	0.0000	0.0000	0.0000			33.7620				
					32-03752.000	51.4400 (A)	0.0000	0.0000	0.0000	0.0000			51.4400				
					32-03753.000	0.1673 (C)	0.0183	0.0000	0.0000	0.0000			0.1490				
					32-03754.000	35.9700 (A)	0.0000	0.0000	0.0000	0.0000			35.9700				
					32-03757.000	5.0000 (A)	0.0910	0.0000	0.0000	0.0000			4.9090				
					32-03758.000	4.9600 (A)	0.1099	0.0000	0.0000	0.0000			4.8501				
					32-04740.000	4.6800 (A)	0.0000	0.0000	0.0000	0.0000			4.6800				
					32-04788.000	68.8200 (A)	0.3303	0.0000	0.0000	0.0000			68.4897				
	TOTAL					474.5948	3.8663	0.8117	0.7509	0.0610			470.6675				
181-T1			DV 505	278	32-04906.000			0.0185	0.0000	0.0185					FOR GRADING		
181-T2					32-03750.000			0.0755	0.0000	0.0755	S				DRIVE AND GRADING, PRIVATE SIGN DO NOT DISTURB		
181-T3								0.0711	0.0000	0.0711	S				FOR GRADING		
															REMOVE 11 FEET OF SPLIT RAIL FENCE		
182-T	ARC CAFEHLD001 LLC A DELAWARE	115-116	201309255		32-00515.000	0.8090 (A)		0.0061	0.0000	0.0061					FOR GRADING		
	LIMITED LIABILITY COMPANY																
183-T	THE INDUSTRIAL SAVINGS AND LOAN ASSOCIATION	115-118	DV 541	494	32-00453.000	0.8040 (A)	0.1578	0.0122	0.0000	0.0122	S				DRIVE & GRADING, COMMERICAL SIGN DO NOT DUSTURB		
															LANDSCAPING DO NOT DISTURB		
184-T	SANDUSKY DEVELOPMENT CO.,	117-118	DV 447	582	32-03102.000	4.2700 (A)	0.0758	0.0702	0.0000	0.0702	S				DRIVE & GRADING, DO NOT DISTURB COMMERICAL SIGN		
	A LIMITED PARTNERSHIP													FED 80%			
														STATE 20%			

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REV. BY	DATE	DESCRIPTION
JJ	5/22/14	PAR. 182; CHANGED OWNERSHIP NAME
KCD	10/23/13	PAR. 181, DEL. AUD. No. 32-04906.001

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
														FED 80%			
														STATE 20%			
185-T1	SUEMAR REALTY, INC., AN OHIO CORPORATION	117-118	201109060		32-00262.000	1.4210 (A)	0.2598	0.0133	0.0000	0.0133					FOR GRADING		
185-T2		117-118						0.0098	0.0000	0.0098					FOR GRADING		
186-WD	SANDUSKY MALL OUTPARCELS LLC	117-120	200707929		32-03119.001	2.9282 (A)	0.3468	0.3491	0.3468	0.0023							
			200707929		32-03119.002	2.1987 (A)	0.2583	0.2787	0.2583	0.0204							
	TOTAL					5.1269	0.6051	0.6278	0.6051	0.0227		4.4991					
186-T1					32-03119.001			0.0265	0.0000	0.0265					FOR GRADING		
					32-03119.002			0.0000	0.0000	0.0000							
	TOTAL							0.0265	0.0000	0.0265							
186-T2					32-03119.001			0.0478	0.0000	0.0478					FOR GRADING		
					32-03119.002			0.0479	0.0000	0.0479							
	TOTAL							0.0957	0.0000	0.0957							
187-WD	SANDUSKY MALL COMPANY, A LIMITED PARTNERSHIP	119-120	DV 447	579	32-03119.000	77.8998 (A)	0.2194	0.1146	0.0661	0.0485		77.6319					
		125-126															
187-T			DV 448	114				0.0367	0.0000	0.0367					FOR DRIVE AND GRADING		
			DV 434	112													
188-WD	SANDUSKY DEVELOPMENT CO.,	119-122	DV 447	582	32-04780.000	0.5521 (A)	0.0856	0.1160	0.0856	0.0304		0.4361					
	A LIMITED PARTNERSHIP																
188-T1								0.0036	0.0000	0.0036					FOR GRADING		
188-T2								0.0065	0.0000	0.0070					FOR GRADING		
189-WD	SCHUSTER BUILDINGS, LLC,	121-122	200016410		32-03079.000	0.9650 (A)	0.1498	0.1514	0.1498	0.0016		0.8136					
	AN OHIO LIMITED LIABILITY COMPANY																
189-T		121-122	200016410		32-03079.000	0.9650 (A)		0.0317	0.0000	0.0317					FOR GRADING		
190-WD	HOTY MALL PROPERTIES, LTD., AN OHIO	119-122	201100836		32-00553.000	3.0056 (A)	0.4004	0.4144	0.4000	0.0144			2.5908				
	LIMITED LIABILITY COMPANY		201010069														
190-T1			201100415					0.0868	0.0000	0.0868	S				DRIVE AND GRADING, COMMERCIAL SIGN DO NOT DISTURB		
190-T2								0.0016	0.0000	0.0016					FOR GRADING		
191-WD	WAGNER DEVELOPMENT, LLC,AN OHIO LIMITED	121-124	200314601		32-03750.001	2.2702 (A)	0.3123	0.3200	0.3120	0.0080			1.9499				
	LIABILITY COMPANY													FED 80%			
191-T								0.0414	0.0000	0.0414				STATE 20%	FOR GRADING		

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REV. BY	DATE	DESCRIPTION
JJ	4/18/14	PAR. 189; REVISED T AND ADDED WD
JJ	4/18/14	PAR. 186; REVISED WD, T1 AND ADDED T2
JJ	10/01/13	PAR. 189, CORRECTED THE NET TAKE

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	OWNERS RECORD INSTRUMENT OR PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
192-T	BFS RETAIL & COMMERCIAL OPERATIONS, LLC, A	121-122	200118274		32-04782.000	1.2206 (A)		0.0402	0.0000	0.0402	S			FED 80%	FOR GRADING, COMMERCIAL SIGN DO NOT DISTURB		
	DELAWARE LIMITED LIABILITY COMPANY													STATE 20%			
193-T	SAGRAN LLC, A DELAWARE LIMITED LIABILITY	121-124	201008093		32-04301.000	0.6588 (A)		0.0078	0.0000	0.0078					FOR GRADING		
	COMPANY																
194	SANDUSKY DEVELOPMENT CO	123-126	DV 447	582	32-04299.000	1.0400 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
195	NOT USED																
196-WD	ERIE COMMUNITY FEDERAL CREDIT UNION	123-126	200906273		32-01885.000	0.5578 (C)	0.2269	0.1033	0.1033	0.0000					TOTAL TAKE		
					32-01886.000	0.6560 (C)	0.5907	0.2554	0.2554	0.0000							
	TOTAL					1.2138	0.8176	0.3587	0.3587	0.0000							
196-WDV					32-01885.000	0.5578 (C)	0.2269	0.2461	0.1236	0.1225	S				COMMERCIAL BUILDING TO BE REMOVED		
					32-01886.000	0.6560 (C)	0.5907	0.4005	0.3353	0.0652	S				COMMERCIAL SIGN TO BE REMOVED		
	TOTAL					1.2138	0.8176	0.6466	0.4589	0.1877					TO BE AQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISIONERS		
	(196-WD & 196-WDV GRAND TOTAL)					1.2138 (C)	0.8176	1.0053	0.8176	0.1877		0.2085					
196-ER					32-01885.000			0.2084	0.0000	0.2084					FOR BUILDING REMOVAL AND GRADING		
															196-T NOT ACQUIRED DUE TO THE ACQUISTION OF 196-ER		
197	NOT USED																
198-WD	SHARON LYNN MICHAEL & ANITA JOANNE CANTELLI	123-126	OR427	869	32-00421.000	0.8856 (A)	0.2401	0.1507	0.1291	0.0216		0.6239					
198-T								0.0187	0.0000	0.0187					FOR DRIVE AND GRADING		
199	NOT USED													FED 80% STATE 20%			

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ER = FEE SIMPLE UNECONOMIC REMNANT

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REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 196; REVISED 196-T TO 196-ER
JJ	9/18/13	196-WDV: CORRECTED GROSS & PRO IN TAKE

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
200-WD	JEWELONE DEVELOPMENT, LLC, AN OHIO	123-128	200101424		32-01267.000	0.5309 (A)	0.1291	0.1434	0.1291	0.0143				FED 80%			
	LIMITED LIABILITY COMPANY				32-00406.000	0.6277 (A)	0.0711	0.0000	0.0000	0.0000				STATE 20%			
	TOTAL					1.1586	0.2002	0.1434	0.1291	0.0143		0.9441			FOR DRIVE, CURB AND GRADING		
200-T					32-01267.000			0.0126	0.0000	0.0126							
201	NOT USED																
202-WD	D & R, LTD., AN OHIO LIMITED LIABILITY COMPANY	127-128	OR329	866	32-03073.000	2.1520 (A)	0.2812	0.1929	0.1808	0.0121		1.8587					
202-T								0.0442	0.0000	0.0442					FOR DRIVE AND GRADING		
203	NOT USED																
204-WD	BOARD OF TRUSTEES PERKINS TOWNSHIP,	127-130	D370	571	32-63011.000	5.2400 (A)	0.5134	0.3679	0.3311	0.0368		4.6898					
	ERIE COUNTY, OHIO																
204-T								0.0772	0.0000	0.0772					FOR DRIVES AND GRADING		
205-WD	WAGNER DEVELOPMENT, LLC, AN OHIO	127-136	200314602		32-03750.002	21.5407 (A)	1.9930	2.0169	1.9930	0.0239			19.5238		ADC PERMIT NO. 13581 & 13582		
	LIMITED LIABILITY COMPANY																
205-T1								0.1763	0.0000	0.1763	S				FOR GRADING, ADC SIGN PERMIT NO. UNKOWN		
205-T2								0.0100	0.0000	0.0100					FOR GRADING		
206-WD	CNL INCOME GW SANDUSKY, LP, A DELAWARE	129-132	200513870		32-02753.000	12.8547 (A)	0.8690	0.6242	0.5609	0.0633					NET RESIDUE FOR 32-02753.000 IS 11.9224		
	LIMITED PARTNERSHIP				32-00844.096	1.6667 (A)	0.0000	0.0000	0.0000	0.0000					ADC PERMIT NO. 20162		
	TOTAL					14.5214	0.8690	0.6242	0.5609	0.0633		13.5891					
206-T					32-02753.000			0.0977	0.0000	0.0977	S				FOR DRIVE AND GRADING		
207-WD	HOWARD I GROSS & KATHY J GROSS	131-132	200104602		32-00844.093	1.5970 (A)	0.0972	0.0225	0.0000	0.0225		1.4773					
														FED 80%			
207-T								0.0230	0.0000	0.0230				STATE 20%	FOR GRADING		

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REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
208-WD1	MEIJER STORES LIMITED PARTNERSHIP, A MICHIGAN	131-136	200015498		32-00844.089	35.9442 (A)	0.5611	0.7459	0.5611	0.1848				FED 80%			
208-WD2	LIMITED PARTNERSHIP						0.1437	0.1952	0.1437	0.0515				STATE 20%			
	TOTAL						0.7048	0.9411	0.7048	0.2363		35.0031					
208-T1								0.0261	0.0000	0.0261					FOR GRADING		
208-T2								0.0582	0.0000	0.0582					FOR DRIVE AND GRADING		
208-T3								0.0166	0.0000	0.0166							
209-WD	SCHUSTER VENTURES, L.L.C., AN OHIO	133-134	200205691		32-00844.095	1.9658 (A)	0.2816	0.3181	0.2816	0.0365		1.6477					
	LIMITED LIABILITY COMPANY																
209-T1								0.0046	0.0000	0.0046					FOR GRADING		
209-T2								0.0163	0.0000	0.0163					FOR GRADING		
210-WD	HOTY MD LTD, AN OHIO LIMITED LIABILITY COMPANY	133-136	200610712		32-01005.000	3.4864 (A)	0.3405	0.4136	0.3405	0.0731	S		3.0728		COMMERCIAL SIGN TO BE REMOVED		
210-T								0.0859	0.0000	0.0859					FOR DRIVE AND GRADING		
211-WD	MUZILLA PROPERTIES, LLC, AN OHIO LIMITED	135-136	201009469		32-01208.000	1.0160 (A)	0.1727	0.1904	0.1727	0.0177		0.8256					
	LIABILITY COMPANY																
211-T								0.0124	0.0000	0.0124					FOR GRADING		
212-WD	4920 MILAN INVESTMENTS, LTD.	135-138	200310087		32-00844.097	0.3913 (A)	0.0000	0.0122	0.0000	0.0122							
			200014809		32-04312.000	0.5739 (A)	0.1243	0.1381	0.1243	0.0138							
			200209543		32-03494.004	4.3104 (A)	0.4425	0.5381	0.4425	0.0956							
	TOTAL		200115129			5.2756	0.5668	0.6884	0.5668	0.1216		4.5872					
			200214557														
212-T					32-00844.097			0.0004	0.0000	0.0004	S				COMMERCIAL SIGN DO NOT DISTURB		
					32-04312.000			0.0138	0.0000	0.0138							
					32-03494.004			0.2080	0.0000	0.2080							
	TOTAL							0.2222	0.0000	0.2222					FOR GRADING		
213	NOT USED													FED 80% STATE 20%			

LEGEND:
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SH = STANDARD HIGHWAY EASEMENT
SL = SLOPE EASEMENT
T = TEMPORARY EASEMENT
PRE = PROPERTY RIGHT
CH = CHANNEL EASEMENT
V = IN THE NAME OF ANOTHER STATE AGENCY, LPA

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE STATE OF OHIO UNLESS OTHERWISE SHOWN.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
DAP	4/29/14	PAR. 211; REIVSED WD AND T TAKES
JJ	4/18/14	PAR. 208; REV. WD-1 AND T1

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
214-WD	PLI, II, AN OHIO LIMITED LIABILITY COMPANY AKA	135-138	201213202 &		32-03935.000	1.0284 (D)	0.1653	0.1700	0.1653	0.0047				FED 80%			
	PLI, II, LTD., AN OHIO LIMITED LIABILITY COMPANY		201401710		32-00785.000	1.0284 (C)	0.1653	0.1653	0.1653	0.0000				STATE 20%			
	TOTAL					2.0568	0.3306	0.3353	0.3306	0.0047			1.7215				
214-T			201213202		32-03935.000			0.0260	0.0000	0.0260					FOR GRADING		
					32-00785.000			0.0220	0.0000	0.0220							
	TOTAL							0.0480	0.0000	0.0480							
215-T	PELZ PROPERTIES, LLC, AN OHIO	137-138	200212515		32-01878.000	0.8580 (A)		0.0257	0.0000	0.0257					FOR GRADING		
	LIMITED LIABILITY COMPANY																
216	NOT USED																
217-T	5005 MILAN, LTD, AN OHIO	137-138	200502893		32-01642.000	1.0284 (A)		0.0809	0.0000	0.0809					FOR DRIVE AND GRADING		
	LIMITED LIABILITY COMPANY		200500311														
			200500310														
218-WD	UNITED MOTOR SALES, LLC, AN OHIO	137-140	201203970		32-03494.005	5.5754 (A)	0.1635	0.1865	0.1635	0.0230		5.3889					
	LIMITED LIABILITY COMPANY																
219-WD	DAVID W DEEHR, DALE F. DEEHR AND	137-142	200707785		32-00864.000	1.5800 (A)	0.2740	0.2966	0.2740	0.0226					ADC SIGN PERMIT NO. 41021 & 41022		
	SUSAN L. RABBITT				32-00863.000	48.3200 (A)	0.4277	0.5133	0.4277	0.0856							
	TOTAL					49.9000	0.7017	0.8099	0.7017	0.1082			49.0901				
219-T			200707785		32-00864.000	1.5800 (A)		0.0435	0.0000	0.0435	S				FOR DRIVE AND GRADING		
					32-00863.000	48.3200 (A)		0.0760	0.0000	0.0760							
	TOTAL					49.9000		0.1195	0.0000	0.1195							
220-WD	STORAGE ZONE ENTERPRISES, LLC, AN OHIO	137-140	201306922		32-03494.012	6.3472 (A)	0.0381	0.0589	0.0381	0.0208		6.2883					
	LIMITED LIABILITY COMPANY																
220-T								0.0088	0.0000	0.0088	S				FOR GRADING, COMMERCIAL SIGN DO NOT DISTURB		
221-WD	TOYS "R" US PROPERTY COMPANY II, LLC	139-140	200910713		32-03494.009	4.3833 (A)	0.0000	0.0993	0.0000	0.0993		4.2840					
	(F/N/A GIRAFFE PROPERTIES, LLC),													FED 80%	FOR DRIVES AND GRADING		
221-T	A DELAWARE LIMITED LIABILITY COMPANY							0.0952	0.0000	0.0952	S			STATE 20%	COMMERICAL SIGN DO NO DISTURB		

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* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
DAP	4/29/14	PAR. 214; REVISED WD & T TAKES
JJ	10/23/13	PAR. 214; CORRECTED RECORD AREAS & NET

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

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15/24
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581/677

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	OWNERS RECORD INSTRUMENT OR PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
222	NOT USED													FED 80% STATE 20%			
223-WD	PAUL E HAMMERSMITH TRUSTEE OF THE PAUL E.	139-142	200902087		32-03494.022	1.1756 (A)	0.0000	0.0374	0.0000	0.0374		1.1382					
	HAMMERSMITH DECLARATION OF TRUST																
223-T	DATED 06/17/2008							0.0356	0.0000	0.0356	S				FOR GRADING, COMMERICAL SIGN DO NOT DISTURB		
224-WD	BCC SANDUSKY PERMANENT, LLC, AN OHIO	141-144	200702968		32-03439.003	1.0002 (A)	0.0000	0.0557	0.0000	0.0557			0.9445				
	LIMITED LIABILITY COMPANY																
224-T1								0.0695	0.0000	0.0695					FOR CURB AND GRADING, DO NOT DISTURB CROSSINGS		
															OF SANDUSKY SIGN		
224-T2								0.0484	0.0000	0.0484					FOR DRIVE AND GRADING		
225-WD	FRED VOGEL PROPERTIES I, LLC, A CALIFORNIA LIMITED	141-142	200211816		32-03494.013	1.1708 (A)	0.0000	0.0374	0.0000	0.0374		1.1334					
	LIABILITY COMPANY, AS TO AN UNDIVIDED ONE-HALF																
225-T1	INTEREST AND JILL VOGEL PORPERTIES I, LLC, A							0.0205	0.0000	0.0205					FOR GRADING		
225-T2	CALIFORNIA LIMITED LIABILTIY COMPANY, AS TO AN							0.0177	0.0000	0.0177					FOR GRADING		
	UNDIVIDED ONE-HALF INTEREST																
226-WD1	MP PARK PLACE LLC	139-146,	201404214		32-03494.001	39.4245 (A)	0.0000	0.0249	0.0000	0.0249							
226-WD2		153-154	361	638			0.0000	0.0165	0.0000	0.0165							
226-WD3			361	618			0.0000	0.0401	0.0000	0.0401							
226-WD4							0.0000	0.0287	0.0000	0.0287							
	TOTAL						0.0000	0.1102	0.0000	0.1102		39.3143					
226-T1					32-03494.001	39.4245 (A)		0.0291	0.0000	0.0291					FOR DRIVE AND GRADING		
226-T2								0.0182	0.0000	0.0182	S				FOR DRIVE, GRADING, AND REMOVEAL OF PRIVATE SIGN		
226-T3								0.1540	0.0000	0.1540					FOR DRIVE, GRADING, REMOVAL OF LIGHT POLE & 4 DEAD TREES		
226-T4								0.0367	0.0000	0.0367	S				FOR DRIVE, GRADING AND REMOVE PRIVATE SIGN		
227-WD	SWCAP, LLC, A DELAWARE	141-142	9912674		32-03494.003	2.2451 (A)	0.0000	0.0484	0.0000	0.0484	S	2.1967			COMMERICAL SIGN TO BE REMOVED		
	LIMITED LIABILITY COMPANY	145-146															
227-T1								0.0057	0.0000	0.0057	S			FED 80%	FOR GRADING, COMMERICAL SIGN DO NOT DISTURB		
227-T2								0.0322	0.0000	0.0322				STATE 20%	FOR GRADING		

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NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME
JJ	7/17/14	PARCEL 226; ADD SHEETS 153-154

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

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16/24
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582/677

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
228-WD	BCC SANDUSKY PERMANENT, LLC, AN OHIO	141-146	200702968		32-03439.002	1.7333 (A)	0.0000	0.0468	0.0000	0.0468			1.6865	FED 80%			
	LIMITED LIABILITY COMPANY													STATE 20%			
228-T1								0.0313	0.0000	0.0313	S				FOR GRADING, COMMERCIAL SIGN DO NOT DISTURB		
228-T2								0.0288	0.0000	0.0288					FOR GRADING		
229-T	SANDUSKY RETAIL PARTNERS, LLC, A DELAWARE	143-144	201101863		32-03439.005	1.8080 (A)		0.0499	0.0000	0.0499					FOR DRIVE AND GRADING		
	LIMITED LIABILITY COMPANY																
230-WD	KENNETH JAMES MCGILL & IRENE MCGILL FAMILY	145-146	200802703		32-01744.000	0.5280 (A)	0.1033	0.1148	0.1033	0.0115		0.4132					
	TRUST, UNDER TRUST DECLARATION JUNE 1, 1996																
230-T								0.0049	0.0000	0.0049					FOR DRIVE AND GRADING		
231-WD	ANTHONY ALBERT KOWALSKI, DANIEL LEE KOWALSKI,	145-146	200316845		32-02355.000	0.4247 (A)	0.1033	0.1148	0.1033	0.0115							
	AND DAVID ALLEN KOWALSKI				32-01999.000	0.4247 (A)	0.1034	0.1177	0.1034	0.0143							
	TOTAL					0.8494	0.2067	0.2325	0.2067	0.0258		0.6169					
231-T					32-01999.000			0.0542	0.0000	0.0542					FOR DRIVE AND GRADING		
					32-02284.000	0.4300 (A)	0.1033	0.1194	0.1033	0.0161					NET RESIDUE FOR 32-02284.000 = 0.3106		
232-WD	RARE HOSPITALITY INTERNATIONAL, INC.,	145-146	201211170		32-02163.000	0.4300 (A)	0.1033	0.1194	0.1033	0.0161					NET RESIDUE FOR 32-02163.000 = 0.3106		
					32-03439.006	0.8902 (A)	0.0000	0.0000	0.0000	0.0000							
	TOTAL					1.7502	0.2066	0.2388	0.2066	0.0322			1.5114				
232-T					32-02284.000			0.0120	0.0000	0.0120					FOR GRADING		
					32-02163.000			0.0110	0.0000	0.0110					FOR GRADING		
	TOTAL							0.0230	0.0000	0.0230							
233-WD	MP PARK PLACE LLC	149-150	201404214		32-03494.025	0.7846 (A)	0.0000	0.0442	0.0000	0.0442		0.7404					
		153-154	OR 361	618													
233-T								0.2725	0.0000	0.2725					FOR DRIVE AND GRADING		
														FED 80%			
234	NOT USED													STATE 20%			

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REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 233; REVISED OWNERSHIP NAME
JJ	10/29/13	PAR. 228; REV. 228-WD AND 228-T1
JJ	10/01/13	PAR. 231-WD CORRECTED NET TAKE/RESIDUE

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
235-WD	REALTY INCOME CORPORATION,	145-148	200615052		32-02006.001	2.2506 (A)	0.0000	0.0468	0.0000	0.0468			2.2038	FED 80%			
	A MARYLAND CORPORATION													STATE 20%			
235-T								0.0480	0.0000	0.0480	S				FOR GRADING, COMEMRCIAL SIGN DO NOT DISTURB		
236-WD	ERIE SHORE PROPERTIES HOLDINGS, LLC, AN OHIO	145-148	201100586		32-03494.011	2.3549 (A)	0.0000	0.0596	0.0000	0.0596					NET RESIDUE FOR 32-03494.011 = 2.2953		
	LIMITED LIABILITY COMPANY		201003112		32-04397.000	0.7618 (A)	0.0000	0.0109	0.0000	0.0109					NET RESIDUE FOR 32-04397.000 = 0.7509		
	TOTAL		201003111			3.1167	0.0000	0.0705	0.0000	0.0705		3.0462					
			201003110														
236-T1					32-03494.011			0.0216	0.0000	0.0216							
236-T2					32-03494.011			0.0708	0.0000	0.0708							
					32-04397.000			0.0435	0.0000	0.0435							
	TOTAL							0.1143	0.0000	0.1143							
237-T	AHG LANDHOLINGS OF ABSECON, LLC, A	147-148	200712264		32-02006.003	1.0309 (A)		0.0229	0.0000	0.0229	S				FOR GRADING, COMMERCIAL SIGN DO NOT DISTURB		
	NEW JERSEY LIMITED LIABILITY COMPANY																
238-WD	GIOVANNA RUTA INC	147-148	DV 538	193	32-04395.000	2.1114 (A)	0.1911	0.2202	0.1911	0.0291		1.8912					
238-T								0.1128	0.0000	0.1128	S				FOR DRIVE, CURB AND GRADE, COMMERCIAL SIGN DO NOT DISTURB		
239-WD	GOODNIGHT INN, INC., AN OHIO CORPORATION (2/3 INT.)	147-148	OR 365	408	32-03302.000	9.6410 (A)	0.3117	0.3133	0.3117	0.0016	S	9.3277					
	CARMELO RUTA (1/3 INTEREST)		DV 484	200													
239-T1			DV 484	198				0.0347	0.0000	0.0347					FOR GRADING		
239-T2								0.0121	0.0000	0.0121	S				FOR GRADING, ADC SIGN PERMIT NO. 27533 & 27520		
240-WD	FIRELANDS REGIONAL MEDICAL CENTER, AN OHIO	147-150	201008940		32-63010.000	2.5321 (C)	0.2650	0.3314	0.2650	0.0664	L(4)	2.2007			FOUR LIGHT BOLLARDS TO BE REMOVED		
	NON-PROFIT CORPORATION	153-154															
240-T								0.1505	0.0000	0.1505					FOR DRIVE AND GRADING		
241-WDV	AEI NET LEASE INCOME & GROWTH FUND XX LIMITED	149-152	200406656		32-04334.003	1.3123 (A)	0.0000	0.0621	0.0000	0.0621	S		1.2502		COMMERCIAL SIGN TO BE REMOVED		
	PARTNERSHIP, A MINNESOTA LIMITED PARTNERSHIP,														TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
241-T1	AND AEI INCOME & GROWTH FUND 24 LLC, A							0.0306	0.0000	0.0306					FOR DRIVE AND GRADING		
241-T2	DELAWARE LIMITED LIABILITY COMPANY							0.1060	0.0000	0.1060					FOR DRIVE AND GRADING		
	BLUFF VIEW ESTATES, INC.		201312778												UNDIVIDED 3.6061% INTEREST		
	PHELPS ENTERPRISES, INC.		201312304												UNDIVIDED 3.6783% INTEREST		
	CHARLES ALLEN SCHUETTE AND MARY J. SCHUETTE		201310504												UNDIVIDED 6.0102% INTEREST		
	FRANK M. EASTMAN, TRUSTEE OF THE FRANK M.		201311592												UNDIVIDED 6.0102% INTEREST		
	EASTMAN 2008 REVOCABLE TRUST																
	HAROLD EASTMAN AND MARIANNA EASTMAN, TRUSTEES		201311593												UNDIVIDED 3.6061% INTEREST		
	OF THE HAROLD AND MARIANNA EASTMAN 2007 TRUST																
	BRUNO ISCRA AND ESTERINA ISCRA		201311594												UNDIVIDED 8.4143% INTEREST		
242-WDV	WMOG INVESTMENT, INC., AN OHIO CORPORATION,	149-152	OR 137	71	32-03423.001	1.0733 (A)	0.0000	0.4125	0.0000	0.4125	S		0.6608		COMMERCIAL SIGN TO BE REMOVED		
	AN UNDIVIDED 1/2 INTEREST, AND DSC LTD, AN OHIO										L(3)			FED 80%	THREE LIGHT POLES TO BE REMVOED		
	LIMITED LIABILITY COMPANY, AN													STATE 20%	TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	UNDIVIDED 1/2 INTEREST																

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* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
DAP	5/21/14	PAR. 239; UPDATED OWNERSHIP INFORMATION
JJ	4/19/14	PAR. 239; ADDED WD, T2 AND REVISED T1
JJ	4/19/14	PAR. 238; REVISED R/W TAKES
JJ	3/14/14	PAR. 241; REVISED NEW OWNERSHIP

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43809
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

18 / 24
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584 / 677

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
243-WDV	S & S REALTY, LTD., AN OHIO	149-152	200004771		32-04334.002	0.0402 (C)	0.0000	0.0402	0.0000	0.0402			0.0000	FED 80%	TOTAL TAKE		
	LIMITED LIABILITY COMPANY													STATE 20%	TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
244-WDV	J & M HOSPITALITY, LLC, AN OHIO LIMITED	151-152	200713321		32-04334.000	2.2191 (A)	0.0000	0.0126	0.0000	0.0126			2.2065		TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	LIABILITY COMPANY																
244-T								0.2102	0.0000	0.2102					FOR DRIVE AND GRADING		
245-WD	FIRST FEDERAL BANK OF OHIO, A FEDERALLY	149-150	200219511		32-03494.008	1.4525 (A)	0.0000	0.0915	0.0000	0.0915	L S(3)	1.3610			LIGHT POLE, COMMERCIAL SIGN, 2 PRIVATE SIGNS,		
	CHARTERED SAVINGS BANK	153-154													4 TREES AND 1 DEAD TREE TO BE REMOVED		
245-T								0.0577	0.0000	0.0577					FOR CURB AND GRADING AND 1 TREE REMOVED		
246-WDV	DISTRICT PETROLEUM PRODUCTS, INC., AN OHIO	149-152	DV 555	335	32-03968.000	0.5913 (A)	0.3098	0.0064	0.0000	0.0064							
	CORPORATION	155-156	200612549		32-04334.001	0.0918 (A)	0.0000	0.0732	0.0000	0.0732					TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	TOTAL					0.6831	0.3098	0.0796	0.0000	0.0796			0.2937				
246-T					32-03968.000	0.5913 (A)		0.1223	0.0000	0.1223	S(+)				COMMERCIAL SIGN, WITH AIR PUMP STATION		
					32-04334.001	0.0918 (A)		0.0086	0.0000	0.0086					DO NOT DISTURB PUMP ISLAND CANOPY		
	TOTAL							0.1309	0.0000	0.1309					FOR DRIVE, CURB AND GRADING		
247-T	ULTIMATE DEVELOPING LLC	155-158	201000451		32-03469.000	1.9268 (A)		0.0277	0.0000	0.0277					FOR DRIVE CONSTRUCTION		
248-WDV	ERIE SHORE, LLC, A DELAWARE	151-152	201110166		32-01216.000	4.1217 (A)	0.0000	0.0305	0.0000	0.0305			4.0912		TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	LIMITED LIABILITY COMPANY	155-158															
248-T1								0.0256	0.0000	0.0256					FOR CURB AND GRADING		
248-T2								0.0186	0.0000	0.0186					FOR GRADING		
249-WL	EMRO MARKETING COMPANY, A DELAWARE	161-162	DV 551	393	32-02365.000	1.1610 (D)	0.3099	0.1937	0.1937	0.0000		0.8511			0.3099 AC. IS EXISTING SH		
	CORPORATION NKA SPEEDWAY LLC,		DV 362	406	32-01052.000	3.6230 (A)	0.0000	0.0000	0.0000	0.0000		3.6230					
	A DELAWARE LIMITED LIABILITY COMPANY					4.7840	0.3099	0.1937	0.1937	0.0000		4.4741			TOTAL FOR 249-WL		
														FED 80%			
249-T								0.0685	0.0000	0.0685	S			STATE 20%	FOR CURB AND GRADING		
															COMMERICAL SIGN DO NOT DISTURB		

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* DENOTES RIGHT OF WAY ENCROACHMENT

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REV. BY	DATE	DESCRIPTION
JJ	11/3/14	PAR. 247; REMOVED PARCEL 247-WL
JJ	9/8/14	PAR. 249; CORRECTED OWNER NAME
JJ	12/2/13	PAR. 249; ADDED ADDITIONAL TAX PARCEL
JJ	11/25/13	247-LA & 249-LA; REVISED TO WL TAKES

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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86/178
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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
250-WL	SJA REALITY ENTERPRISES, LLC NKA ALLISON FAMILY	161-164	200404449		32-02982.000	1.0000 (A)	0.2325	0.2325	0.2325	0.0000				FED 80%			
	PARTNERSHIP LLC AN OHIO LIMITED LIABILITY COMPANY				32-02983.000	0.6400 (A)	0.1377	0.0668	0.0668	0.0000				STATE 20%			
					32-02984.000	2.5000 (A)	0.0000	0.0000	0.0000	0.0000							
	TOTAL					4.1400	0.3702	0.2993	0.2993	0.0000			3.7698				
250-T1					32-02982.000	1.0000 (A)		0.0065	0.0000	0.0065					FOR DRIVE AND GRADING		
250-T2					32-02983.000	0.6400 (A)		0.0689	0.0000	0.0689					FOR DRIVE AND GRADING		
	TOTAL					1.6400		0.0754	0.0000	0.0754							
251	RUTA CARMELO	155-158			32-02872.000	4.4025 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
252-T	CARMELO RUTA, INC., AN OHIO CORPORATION	161-164	DV 458	796	32-03054.000	2.7600 (A)		0.0736	0.0000	0.0736					FOR DRIVE AND GRADING, CURB ENCROACHMENT		
											S				COMMERCIAL SIGN DO NOT DISTURB		
253-T	GRANDE HOSPITALITY, LLC, AN OHIO LIMITED	163-164	201306305		32-03989.000	5.3850 (A)		0.0493	0.0000	0.0493	S				FOR DRIVE, CURB AND GRADING		
	LIABILITY COMPANY														COMMERCIAL SIGN DO NOT DISTURB		
254-T	MODICA HOSPITALITY, LLC, AN OHIO LIMITED	163-166	201306305		32-02199.000	2.5610 (A)		0.0525	0.0000	0.0525					FOR DRIVE AND GRADING		
	LIABILITY COMPANY				32-02998.000	0.5980 (A)		0.0298	0.0000	0.0298							
	TOTAL							0.0823	0.0000	0.0823							
255-T	CARMELO RUTA, INC., AN OHIO COROPRATION	163-166	200409256		32-01503.000	3.2032 (A)		0.1684	0.0000	0.1684	L				FOR DRIVE, CURB AND GRADING, DO NOT DISTURB THE		
											S(3)				COMMERCIAL SIGN OR DECOATIVE LIGHT POLES, THE		
															2 ENTER SIGNS SHALL BE TAKEN		
256	NOT USED																
257-T	BOARD OF TRUSTEE OF PERKINS TOWNSHIP	163-164	DV 201	82	32-63002.000	1.9600 (A)		0.0097	0.0000	0.0097	S				FOR DRIVE AND GRADING		
	ERIE COUNTY OHIO														CEMETERY SIGN DO NOT DISTURB		
258-T	BICH THI HUYNH, TRUSTEE OF THE BICH THI HUYNH	165-166	OR 339	326	32-02075.000	0.4080 (A)		0.0585	0.0000	0.0585					FOR DRIVE, CURB, CATCH BASIN AND GRADING		
	DECLARATION OF TRUST, UAW DATED																
	THE 16TH DAY OF FEBRUARY 1996																
259-T	PATRICIA A LAUX	165-166	200503893		32-03793.000	0.3200 (A)		0.0297	0.0000	0.0297				FED 80%	FOR DRIVE AND GRADING		
			OR 280	829										STATE 20%			
			DV 356	241													

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REV. BY	DATE	DESCRIPTION
JJ	7/22/14	PAR. 250; ADDED AUD. NO. 32-02984.000
JJ	7/17/14	PARCEL 251; ADD SHEETS 155-156
JJ	2/12/14	PAR 255-T; LABELED 2 SIGNS TO BE TAKEN
JJ	11/25/13	PARCEL 250-LA; REVISED TO WL TAKE

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	OWNERS RECORD INSTRUMENT OR PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
260-T	MILAN III COMPANY, LTD., AN OHIO	165-168	9905165		32-04629.001	1.6823 (A)		0.0641	0.0000	0.0641				FED 80%	FOR CURB AND GRADING		
	LIMITED LIABILITY COMPANY													STATE 20%			
261-T1	250 BOGART CORNER LTD, AN OHIO LIMITED	165-168	201212864		32-03649.000	0.2670 (A)		0.0230	0.0000	0.0230					FOR GRADING		
	LIABILITY COMPANY	173-174	200304163														
261-T2					32-03649.000			0.0098	0.0000	0.0098					FOR DRIVE AND GRADING		
					32-03645.000	0.2000 (A)		0.0161	0.0000	0.0161							
	TOTAL							0.0259	0.0000	0.0259							
262-T	PAUL L DECKER & SHIRLEY F DECKER, TRUSTEES OF	173-174	OR 334	107	32-00855.000	0.4100 (A)		0.0156	0.0000	0.0156					FOR DRIVE AND GRADING		
	THE DECKER FAMILY REVOCABLE LIVING TRUST																
	DATED 3/4/94																
263-T	GENE R DAGIAU & JANICE E DAGIAU, CO-TRUSTEES	173-174	200803780		32-00302.000	0.4500 (A)		0.0041	0.0000	0.0041					FOR DRIVE AND GRADING		
	OF THE DAGIAU FAMILY TRUST, DATED AUGUST 17, 2007				32-00789.000	0.7400 (A)		0.0031	0.0000	0.0031							
	TOTAL							0.0072	0.0000	0.0072							
264	RONALD D LANDIS & JACQUELINE M. LANDIS	171-174	OR 328	425	32-00781.000	0.1600 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
					32-00780.000	1.2600 (A)											
265	MARK W MANNER & JEANNIE E. MANNER	171-172	OR 149	549	32-03699.000	1.0800 (A)									NO ADDITIONAL RIGH TOF WAY REQUIRED		
266	SANDUSKY VENDING LIMITED PARTNERSHIP	171-172	200207926		32-02450.000	0.7400 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
267-WDV	MILAN IV COMPANY, LTD., AN OHIO	167-168	200609108		32-04629.000	2.3087 (A)	0.2943	0.4949	0.2943	0.2006		1.8138			TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	LIMITED LIABILITY COMPANY	175-176															
267-T1								0.0114	0.0000	0.0114					FOR GRADING		
267-T2								0.0287	0.0000	0.0287					FOR DRIVE AND GRADING		
														FED 80%			
														STATE 20%			

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NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 260; CORRECTED OWNER INS. NO.

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUCTURE	NET RESIDUE LEFT ACRES	RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	PAGE
268-WDV	JOHN M MASTERSON & MARY G MASTERSON	175-176	DV 261	329	32-00487.000	0.3434 (A)	0.0000	0.1011	0.0000	0.1011				FED 80%	TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
														STATE 20%			
269-275	NOT USED																
276	LYON A. BAUMLER & DOROTHY M BAUMLER, TR	171-174	OR 433	836	32-00210.000	6.9500 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
277-WDV	BOARD OF EDUCATION OF THE PERKINS LOCAL SCHOOL DISTRICT	173-174	DV 441	23	32-65004.000	1.8887 (A)	0.2225	0.1114	0.0928	0.0186			1.6476		TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
278	NOT USED																
279-WDV	ANGELA A BIANCO	173-174	200713071		32-03630.001	0.4900 (A)	0.0618	0.0990	0.0618	0.0372			0.3910		TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
			200706998														
			200516591														
280-WDV	ERIE COUNTY LAND REUTILIZATION CORP.	173-174	201402910		32-02432.000	0.4088 (A)	0.0722	0.1033	0.0722	0.0311			0.3055		TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
281	DONNA J YOST	173-174	DV 524	766	32-00560.000	0.5000 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
282-T1	MMM REAL ESTATE LTD., AN OHIO	167-168	201106781		32-00065.000	0.5620 (A)		0.0145	0.0000	0.0145					FOR DRIVE AND GRADING		
282-T2	LIMTIED LIABILITY COMPANY	173-174			32-00066.000	0.0550 (A)		0.0262	0.0000	0.0262					FOR GRADING		
283	NOT USED																
284-WDV	SANDUSKY VENDING LIMITED PARTNERSHIP, AN	167-168	OR 46	498	32-01261.000	4.8569 (A)	0.3486	0.4097	0.3486	0.0611			4.4472	FED 80% STATE 20%	TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	OHIO LIMITED PARTNERSHIP	175-176	200712383														

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REV. BY	DATE	DESCRIPTION
JJ	5/22/14	PAR. 280; NEW OWNERSHIP NAME
JJ	11/6/13	PAR. 282-T2; REVISED GROSS & NET TAKE
JJ	10/30/13	PAR. 277 & 279 - CHANGED TO WDV TAKES
JJ	10/01/13	PAR. 277 CORRECTED RECORD AREA

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

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285-WDV	SCOTT J MULARONI & BECKY A MULARONI	175-176	DV 569	693	32-01677.000	0.8400 (A)	0.1022	0.1864	0.1022	0.0842			0.7378	FED 80% STATE 20%	TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
286-WDV	SHAKER VILLAGE RENTAL COMMUNITIES, LTD., AN	175-178	DV 243	893	32-00429.000	2.3016 (A)	0.3740	0.0845	0.0652	0.0193					TO BE ACQUIRED IN THE NAME OF ERIE COUNTY BOARD OF COMMISSIONERS		
	OHIO LIMITED LIABILITY COMPANY		201207913		32-00430.001	9.8637 (A)											
287-T1	RICHARD G SCHUSTER, TRUSTEE AND CATHLEEN C.	167-170	201301929		32-03239.000	1.1647 (A)		0.1846	0.0000	0.1846					FOR DRIVE AND GRADING		
	SCHUSTER, TRUSTEE		DV 111	243	32-04001.000	0.1560 (A)		0.0151	0.0000	0.0151					FOR DRIVE AND GRADING		
	TOTAL					1.3207		0.1997	0.0000	0.1997							
288	DANIEL L BRENNAN	175-178			32-00434.000	0.4590 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
					32-00431.000	0.2010 (A)											
289	NOT USED																
290	CAMCO PROPERTIES LLC	169-170			32-04001.002	4.0305 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
291-299	NOT USED																
300	HOW COL HOLDINGS LLC	117-118	RN 200805746		32-04742.000	0.5575 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
301	MILAN PC PROPERTY LLC	117-120	RN 200515026		32-04907.000	0.7525 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
302	MONROMUFFLER BRAKE INC	119-120	RN 201213337		32-04906.002	0.8347 (A)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
303	MATHEWSON BRAD & JILL	119-120			32-04885.000	1.3362 (A)								FED 80% STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		

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REV. BY	DATE	DESCRIPTION
JJ	11/6/13	PAR. 287-T1; REVISED GROSS & NET TAKES
JJ	10/30/13	ADDED 289, 291-299 AS "NOT USED"

DATE COMPLETED 9/12/13

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 43809
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

23/24
90/178
589/677

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NET RESIDUE = RECORD AREA - TOTAL P.R.O. - NET TAKE

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT OR VOLUME	OWNERS RECORD INSTRUMENT OR PAGE	AUDITOR'S ID NUMBER	RECORD AREA ACRES	TOTAL P.R.O. ACRES	GROSS TAKE ACRES	PRO IN TAKE ACRES	NET TAKE ACRES	STRUC-TURE	NET RESIDUE LEFT ACRES	NET RESIDUE RIGHT ACRES	TYPE FUNDS	REMARKS AND PERSONALITY	AS ACQUIRED VOLUME	AS ACQUIRED PAGE
400	UNKNOWN OWNER	108-109			NONE	0.1062 (C)	0.1062							FED 80%	NO ADDITIONAL RIGHT OF WAY REQUIRED		
														STATE 20%			
401	UNKNOWN OWNER	111-114			NONE	0.0463 (C)	0.0463								NO ADDITIONAL RIGHT OF WAY REQUIRED		
402	UNKNOWN OWNER	139-142			NONE	0.6888 (C)	0.6888								NO ADDITIONAL RIGHT OF WAY REQUIRED		
		145-146															
403	UNKNOWN OWNER	145-148			NONE	0.4018 (C)	0.4018								NO ADDITIONAL RIGHT OF WAY REQUIRED		
404	UNKNOWN OWNER	145-148			NONE	0.2408 (C)	0.2408								NO ADDITIONAL RIGHT OF WAY REQUIRED		
405	UNKNOWN OWNER	149-150			NONE	0.3214 (C)	0.3214								NO ADDITIONAL RIGHT OF WAY REQUIRED		
		155-156															
406	UNKNOWN OWNER	163-168			NONE	1.2261 (C)	1.2261								NO ADDITIONAL RIGHT OF WAY REQUIRED		
407	UNKNOWN OWNER	165-166			NONE	0.6605 (C)	0.6605								NO ADDITIONAL RIGHT OF WAY REQUIRED		
408	UNKNOWN OWNER	165-168			NONE	0.2226 (C)	0.2226								NO ADDITIONAL RIGHT OF WAY REQUIRED		
														FED 80%			
409	UNKNOWN OWNER	171-174			NONE	0.5939 (C)	0.5939							STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		

LEGEND:
(A) = AUDITOR
(C) = CALCULATED
(D) = DEED
WD = WARRANTY DEED
DV = DEED VOLUME
OR = OFFICIAL RECORD
SH = STANDARD HIGHWAY EASEMENT
SL = SLOPE EASEMENT
T = TEMPORARY EASEMENT
PRE = PROPERTY RIGHT
CH = CHANNEL EASEMENT
V = IN THE NAME OF ANOTHER STATE AGENCY, LPA

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE STATE OF OHIO UNLESS OTHERWISE SHOWN.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

REV. BY	DATE	DESCRIPTION
JJ	4/26/14	CORRECTED ALL THE TOTAL P.R.O. AREAS
DATE COMPLETED 9/12/13		

FEDERAL PROJECT NO. E-100530
PID NO. 88407
STATE JOB NO. 438009
R/W DESIGNER JJ
R/W REVIEWER KCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

ERI-250-0.00

24/24
91/178
590
677

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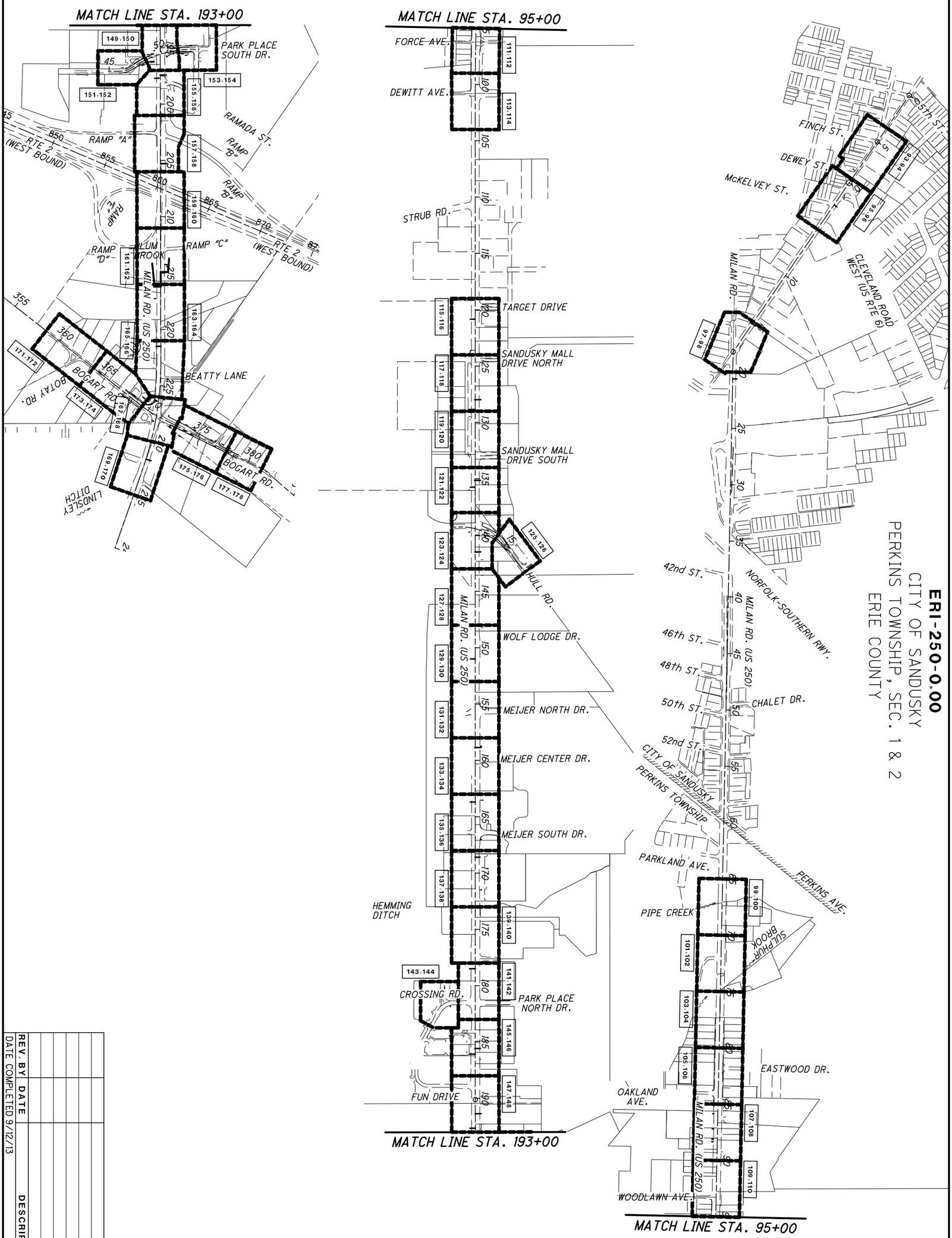

ERI-250-0.00
CITY OF SANDUSKY
PERKINS TOWNSHIP, SEC. 1 & 2
ERIE COUNTY

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

591 (677)	92 / 178	ERI-250-0.00	RIGHT OF WAY PLAN DETAIL SHEET LAYOUT	R/W DESIGNER JJ R/W REVIEWER DAP	PID NO. 88407	0 400 200 800 HORIZONTAL SCALE IN FEET

ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY

CURVE DATA
℄ CLEVELAND AVE. RELOCATION
(US RTE 6)
P.I. Sta. 474+16.01
Δ = 9° 00′ 45″ (RT)
Dc = 1° 29′ 59″
R = 3,820.35′
T = 301.09′
L = 600.94′
E = 11.85′
C = 600.32′
C.B. = S 55° 56′ 41″ E

NOTE:
CLEVELAND ROAD R/W WEST OF SYCAMORE LINE ESTABLISHED AS-OCCUPIED. PROPERTY OWNERSHIP BY CITY OF SANDUSKY. NO RECORDED DEDICATION PLAT OR HIGHWAY EASEMENT FOUND.

SYCAMORE LINE
(60′ R/W)

FINCH ST.
(66′ R/W)

DEWEY ST.
(40′ R/W)

CLEVELAND AVE.
RELOCATION
(US RTE 6)
(R/W VARIES)

℄ SURVEY & CONST.
SYCAMORE LINE

BEGIN PROJECT
STA. 5+97.00
SYCAMORE LINE

BEGIN ACQUISITION
STA. 7+96.18
SYCAMORE LINE

PT Sta. 4+98.86

MATCH LINE: STA. 9+00
(SEE SHEET 95)

10 TREEIE L RHODE &
THOMAS C RHODE SR.
57-01426.000
RES. #1130

11 JOHN D &
EDDA MARIE KAISER
57-02366.000
RES. #1120

12 STEIN HOSPICE SERVICE INC
57-68040.000

15 S & S REALTY LTD
57-06003.000

21 S & S REALTY LTD
57-06003.002

22 NIEHM BROS., LLC, AN OHIO
LIMITED LIABILITY COMPANY,
FNA NIEHM BROS. PARTNERSHIP,
AN OHIO GENERAL PARTNERSHIP,
CONSISTING OF JAMES B.
NIEHM AND RICHARD S. NIEHM
57-01553.001
GARAGE
SANDTOWN
AUTOMOTIVE
#1001
57-04756.000

RES. #1210
RES. #1220

13 NYLE W OLDS JR
54-04141.000
RES. #1123
RES. #1129
RES. #1133

14 MARDELLA A
MARQUART
57-02976.000
RES. #1120
RES. #1205

16 LAVONE A WYNN
TRUSTEE
57-04549.000
LOT 21
LOT 23

17 SCOTT NORTON
57-02712.000
RES. #1211
RES. #1213

18 ANDREW D THOM
57-02826.000
RES. #1217

19 DONALD YOST SR.
57-05385.000

20 CITY OF SANDUSKY
LOT 25
LOT 27

LOT 20
LOT 24
LOT 26
LOT 45
LOT 43
LOT 41
LOT 33
GEORGE H. DEWITT'S
SUBDIVISION
PLAT VOL. 5, PG. 3

22-WD
22-T
20-WDV

SORTINO'S
SIGN
SPOT
LIGHT
SIGN HOSPICE
SIGN

DO NOT
DISTURB
DO NOT SIGN
DISTURB

CONST. LIMITS

Ex R/W
CONC.
CONC. WALK
ASPH.
EX. ASPHALT
CHAIN LINK
BRUSH
DECK
PATIO
GAR.
ANTENNA
bush bush
S 02° 31′ 27″ E
S23°37′00″E
N66°28′16″E
N66°21′24″E

CROSS REFERENCE

Sub-Set Sheet No.	Description
---	Lease and Easement Summary
1, 2	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/14/13	PAR. 22; ADDED AUDITOR PARCEL NUMBER

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 3+50 TO STA. 9+00

ERI-250-0.00

93 / 178
592 / 677

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ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	00°36'05"	3845.35'	40.35'	40.35'	N57°59'01"W

NOTE:
CLEVELAND ROAD R/W WEST OF SYCAMORE LINE ESTABLISHED AS-OCCUPIED. PROPERTY OWNERSHIP BY CITY OF SANDUSKY. NO RECORDED DEDICATION PLAT OR HIGHWAY EASEMENT FOUND.

CURVE DATA
℄ CLEVELAND AVE. RELOCATION
(US RTE 6)
P.I. Sta. 474+16.01
Δ = 9° 00' 45" (RT)
Dc = 1° 29' 59"
R = 3,820.35'
T = 301.09'
L = 600.94'
E = 11.85'
C = 600.32'
C.B. = S 55° 56' 41" E

10 TREEIE L RHODE & THOMAS C RHODE SR. 57-01426.000
11 JOHN D & EDDA MARIE KAISER 57-02366.000
12 STEIN HOSPICE SERVICE INC 57-68040.000
15 S & S REALTY LTD 57-06003.000
21 S & S REALTY LTD 57-06003.002
22 NIEHM BROS., LLC, AN OHIO LIMITED LIABILITY COMPANY, FNA NIEHM BROS. PARTNERSHIP, AN OHIO GENERAL PARTNERSHIP CONSISTING OF JAMES B. NIEHM AND RICHARD S. NIEHM
13 NYLE W OLDS JR 54-04141.000
14 MARDELLA A MARQUART 57-02976.000
16 LAVONE A WYNN TRUSTEE 57-04549.000
17 SCOTT NORTON 57-02712.000
18 ANDREW D THOM 57-02826.000
19 DONALD YOST SR. 57-05385.000
20 CITY OF SANDUSKY

57-01553.001
57-04756.000

BEGIN ACQUISITION STA. 7+96.18 SYCAMORE LINE
BEGIN PROJECT STA. 5+97.00 SYCAMORE LINE
PI Sta. 4+98.86
CP01 M.N.S.
ERI0250030
℄ SURVEY & CONST. SYCAMORE LINE
MATCH LINE: STA. 9+00 (SEE SHEET 96)

N87°28'33"E
N02°31'27"W
S 02° 31' 27" E
385.14'

RP2203 +84.00 35.00' LT.
RP2202 +84.00 30.00' LT.
+34.84 35.00' LT.
+34.84 30.00' LT.
5.00'
49.16'
46.43'
30.00'
22-WD
22-T

RP2001 +96.18 30.00' RT.
RP2002 +30.00 50.00' RT.
RP2003 +34.21 62.64' RT.
RP2004 +28.43 112.74' RT.
+45.72 30.00' RT.
+75.76 37.22' RT.
+31.96 30.00' RT.
+51.31 79.50' RT.
S02°31'27"E 32.00'
S02°31'27"E 35.78'
N28°04'18"E 39.29'
N69°02'27"E 13.32'
S66°07'17"W 53.15'
S85°56'35"E 50.44'
20-WDV
R1

S23°37'00"E
N66°12'34"E
N66°28'16"E

LOT 20
LOT 21
LOT 23
LOT 24
LOT 25
LOT 26
LOT 27
LOT 33
LOT 41
LOT 43
LOT 45
GEORGE H. DEWITT'S SUBDIVISION PLAT VOL. 5, PG. 3

FINCH ST. (66' R/W)
DEWEY ST. (40' R/W)
℄ CLEVELAND AVE. RELOCATION (US RTE 6)
25'
25'

Ex R/W
R/W
P.F.
I.P.S.
M.N.S.

CROSS REFERENCE

Sub-Set Sheet No.	Description
---	Lease and Easement Summary
1, 2	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/14/13	PAR. 22; ADD AUDITOR PARCEL NUMBER

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 3+50 TO STA. 9+00
ERI-250-0.00

94 / 178
593 / 677

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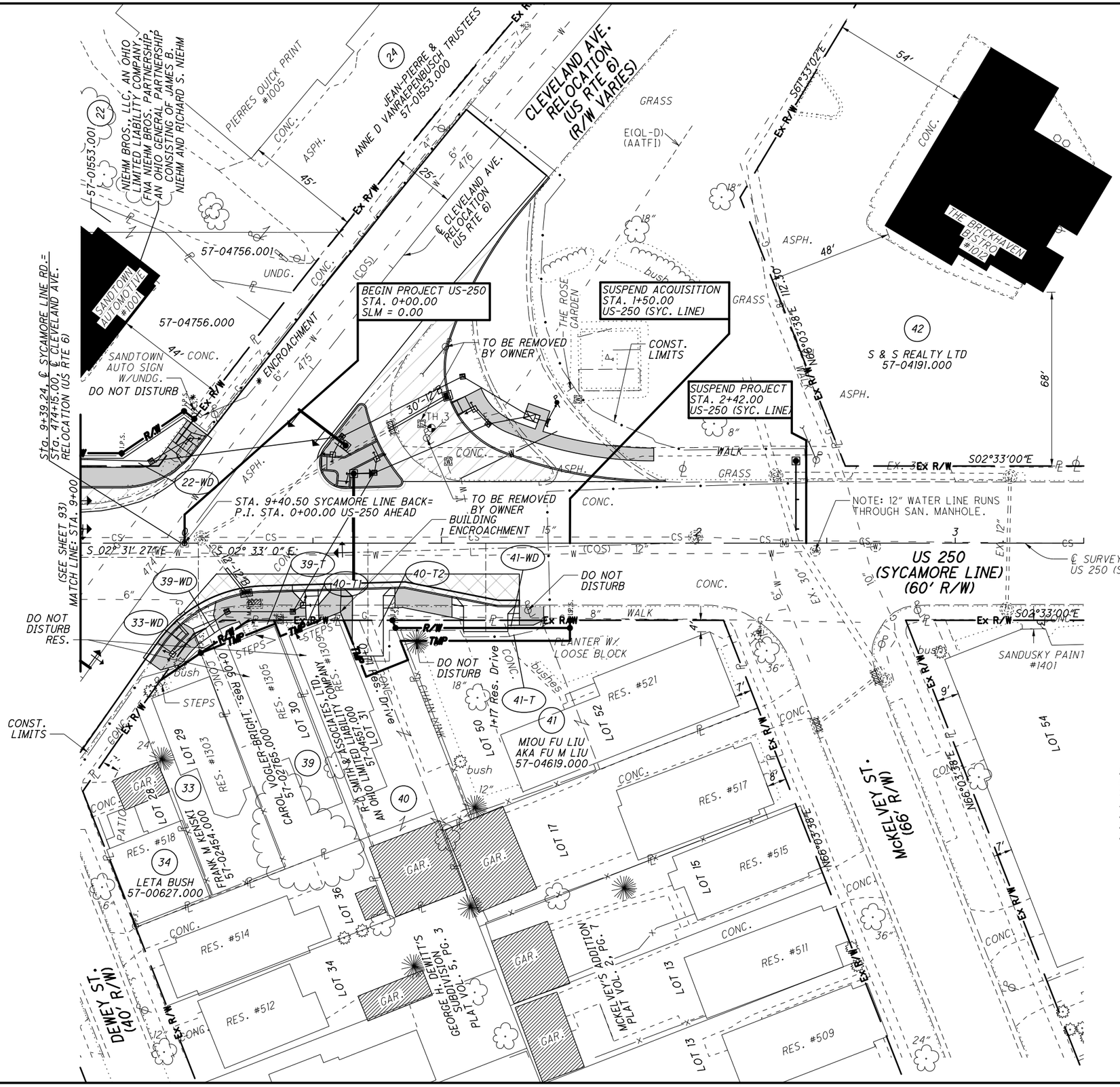
ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY



(22)
NIEHM BROS., LLC, AN OHIO LIMITED LIABILITY COMANY, FNA NIEHM BROS. PARTNERSHIP CONSISTING OF JAMES B. NIEHM AND RICHARD S. NIEHM 57-04756.000

CURVE DATA
℄ CLEVELAND AVE. RELOCATION (US RTE 6)
P.I. Sta. 474+16.01
Δ = 9° 00' 45" (RT)
Dc = 1° 29' 59"
R = 3,820.35'
T = 301.09'
L = 600.94'
E = 11.85'
C = 600.32'
C.B. = S 55° 56' 41" E

NOTE:
CLEVELAND ROAD R/W WEST OF SYCAMORE LINE ESTABLISHED AS-OCCUPIED. PROPERTY OWNERSHIP BY CITY OF SANDUSKY. NO RECORDED DEDICATION PLAT OR HIGHWAY EASEMENT FOUND.

* DENOTES RIGHT OF WAY ENCROACHMENT

CROSS REFERENCE	
Sub-Set Sheet No.	Description
1	Lease and Easement Summary
2, 3	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	REVISED SUSPEND PROJECT FLAG
JJ	2/12/14	PAR 40; REVISED NEW OWNERSHIP
JJ	11/14/13	PAR. 22; ADD AUDITOR PARCEL NUMBER

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 9+00 TO STA. 3+50

ERI-250-0.00

95/178
594/677

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ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	00°20'34"	3845.35'	23.00'	23.00'	N55°29'55"W
R2	00°20'05"	3787.57'	22.12'	22.12'	N57°00'39"E

PARCEL DETAIL TABLE

	POINT	STATION	OFFSET	COURSE	BEARING	DISTANCE
33-WD	2	0+03.46	35.40' RT.	2-3	S66°07'17"W	7.85'
	3	0+06.31	42.71' RT.	3-1	N36°46'35"W	19.00'
	1	* 9+31.12	53.41' RT.	1-2 #	S57°00'39"E	22.12'
39-WD	2	0+03.46	35.40' RT.	2-6	S27°59'01"E	12.58'
	6	0+14.82	30.00' RT.	6-7	S02°33'00"E	10.18
	7	0+25.00	30.00' RT.	7-3	N36°46'35"W	22.60'
	3	0+06.31	42.71' RT.	3-2	N66°07'17"E	7.85
39-T	3	0+06.31	42.71' RT.	3-7	S36°46'35"E	22.60'
	7	0+25.00	30.00' RT.	7-8	S02°33'00"E	9.82'
	8	0+34.82	30.00' RT.	8-9	S66°07'17"W	1.43'
	9	0+35.34	31.33' RT.	9-4	N23°57'25"W	31.18'
40-T1	8	0+34.82	30.00' RT.	8-11	S02°33'00"E	17.95'
	11	0+52.77	30.00' RT.	11-10	N24°23'46"W	16.72'
	10	0+37.25	36.22' RT.	10-8	N66°07'17"E	6.68'
40-T2	12	0+61.92	30.00' RT.	12-17	S02°33'00"E	19.00'
	17	0+80.93	30.00' RT.	17-14	S66°03'38"W	16.59'
	14	0+86.99	45.45' RT.	14-13	N24°23'46"W	17.52'
	13	0+70.72	51.97' RT.	13-12	N65°38'50"E	23.66'
41-WD	17	0+80.93	30.00' RT.	17-18	S02°33'00"E	69.07'
	18	1+50.00	30.00' RT.	18-19	S87°27'00"W	3.00'
	19	1+50.00	33.00' RT.	19-16	N02°33'00"W	67.89'
	16	0+82.11	33.00' RT.	16-17	N66°03'38"E	3.22'
41-T	16	0+82.11	33.00' RT.	12-14	S02°33'00"E	67.89'
	19	1+50.00	33.00' RT.	14-15	S87°27'00"W	5.00'
	20	1+50.00	38.00' RT.	15-13	N02°33'00"W	65.93'
	15	0+84.07	38.00' RT.	13-12	N66°03'38"E	5.37

* - ℄ SYCAMORE LINE ROAD
\# - SEE CURVE R2

CURVE DATA
℄ CLEVELAND AVE. RELOCATION
(US RTE 6)
P.I. Sta. 474+16.01
Δ = 9° 00' 45" (RT)
Dc = 1° 29' 59"
R = 3,820.35'
T = 301.09'
L = 600.94'
E = 11.85'
C = 600.32'
C.B. = S 55° 56' 41" E

NOTE:
CLEVELAND ROAD R/W WEST OF SYCAMORE LINE ESTABLISHED AS-OCCUPIED. PROPERTY OWNERSHIP BY CITY OF SANDUSKY. NO RECORDED DEDICATION PLAT OR HIGHWAY EASEMENT FOUND.

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
2, 3	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	REVISED SUSPEND PROJECT FLAG
JJ	2/12/14	PAR. 40; REVISED NEW OWNERSHIP
JJ	11/14/13	PAR. 22; ADDED AUDITOR PARCEL NUMBER

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 9+00 TO STA. 3+50

ERI-250-0.00

96/178
595/677

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ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY

RESUME WORK STA. 15+15.20 US 250
RESUME ACQUISITION STA. 15+15.20 US 250
SUSPEND ACQUISITION STA. 19+62.00 US 250
SUSPEND WORK STA. 20+65.00 US 250

D&J CARWASH #1644

60 BBD PROFESSIONAL PROPERTY MANAGEMENT, LLC (AN OHIO LIMITED LIABILITY COMPANY) 57-01738.000

59 KELVIN L IRBY 57-05681.000

US 250 (SYCAMORE LINE) (60' R/W)

WOOD FENCE
TRASH PAD
PATIO
ADVANCED NEUROLOGIC ASSOCIATES INC. #1634
BBD PROFESSIONAL PROPERTY MANAGEMENT, LLC (AN OHIO LIMITED LIABILITY COMPANY) 57-03502.000
SAND. NEST 279 N ORIOLES CLUB W/ UG.
ADV. NEUR SIGN
ASPH.
CONC.
BRICK PLANTER
TRENCH DRAIN
LANDSCAPING TO BE REMOVED
EX. 12" COMBO
℄ SURVEY & CONST. US 250 (SYCAMORE LINE)
294.48'
N02° 33' 00"W
EX. 12" COMBO
CONST. LIMITS
EX.RAMP
ABAN. DR. APRON
S 35° 52' 47" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
US 250 (MILAN RD.) (82.5' R/W)
MILAN ROAD
STEEL POST
BILL'S AUTO SIGN W/ UG.
SANDRA L MAGI 57-04995.000
SYCAMORE LINE RD. (60' R/W)
CONST. LIMITS SYCAMORE LINE
S02°33'00"E
EX. 12" COMBO
PI STA. 18+19.68
DO NOT DISTURB
FIRESIDE LODGE
OLD SIGN POST
OUTLOT 24
OUTLOT 34
BLACK IRON
WOOD FNC.
4 POINTS BAR, LLC AN OHIO LIMITED LIABILITY COMPANY 57-04640.000
STEPHEN CELLIER, DDS #1634
MILAN RD. (66' R/W)
EX. RAMP
S35°52'47"E
RES. #1705
RES. #1707
RES. #1711
RES. #1715
RES. #1727
63 ROBERT W & BERNICE BILLMAN 57-00350.000 LOT 3 & LOT 4
62 JASON J ROTH & JAMIE L FITZHUM 57-01571.000 LOT 1 & LOT 2
65 TIMOTHY M & SHENELL A HINTON 57-04906.000 LOT 5 & LOT 6
66 LISA A SEWARD 57-03061.000 LOT 7 & LOT 8
67 LOUIS A & THELMA L BONI 57-04148.000 LOT 9 & LOT 10
57-04149.000
THE CHAMBER OF COMMERCE SUBDIVISION PLAT VOL. 5, PG. 7
60-WD1 60-WD2 60-WD3 60-T 61-WD 68-WD CP06

CROSS REFERENCE

Sub-Set	Description
Sheet No.	
---	Lease and Easement Summary
3, 4	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/21/14	REV. SUSPEND WORK FLAG
JJ	4/19/14	PAR. 60; ADDED 60-WD-3

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 15+00 TO STA. 20+75

ERI-250-0.00

97/178
596/677

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ERI-250-0.00
ERIE COUNTY
CITY OF SANDUSKY

PARCEL DETAIL TABLE

	POINT	STATION	OFFSET	COURSE	BEARING	DISTANCE
60-WD3	1	15+25.20	30.00' LT.	1-2	N 02° 33' 00" W	10.00'
	2	15+15.20	30.00' LT.	2-3	N 87° 27' 00" E	6.00'
	3	15+15.20	36.00' LT.	3-4	S 02° 33' 00" E	10.00'
	4	15+25.20	36.00' LT.	4-1	S 87° 27' 00" W	6.00'

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	78°01'56"	11.00'	14.98'	13.85'	S36°28'13"W
R2	12°41'20"	194.00'	42.96'	42.88'	N13°48'45"W
R3	4°54'20"	194.00'	16.64'	16.64'	S05°00'40"E

RESUME WORK STA. 15+15.20 US 250
RESUME ACQUISITION STA. 15+15.20 US 250
SUSPEND ACQUISITION STA. 19+62.00 US 250
SUSPEND WORK STA. 20+65.00 US 250
PT. O.L. 15 DARLING'S SURVEY EAST OF SYCAMORE LINE
PI STA. 18+19.68
℄ SURVEY & CONST. US 250 (SYCAMORE LINE)
℄ SURVEY & CONST. US 250 (MILAN RD.)
MILAN RD.
SYCAMORE LINE RD. (60' R/W)
BOALT ST. (66' R/W)
OUTLOT 24
OUTLOT 34
THE CHAMBER OF COMMERCE SUBDIVISION PLAT VOL. 5, PG. 7
57-04149.000

60 BBD PROFESSIONAL PROPERTY MANAGEMENT, LLC (AN OHIO LIMITED LIABILITY COMPANY) 57-01738.000
60 BBD PROFESSIONAL PROPERTY MANAGEMENT, LLC (AN OHIO LIMITED LIABILITY COMPANY) 57-03502.000
61 4 POINTS BAR, LLC AN OHIO, LIMITED LIABILITY COMPANY 57-04640.000
62 JASON J ROTH & JAMIE L FITZHUM 57-01571.000 LOT 1 & LOT 2
63 ROBERT W & BERNICE BILLMAN 57-00350.000 LOT 3 & LOT 4
65 TIMOTHY M & SHENELL A HINTON 57-04906.000 LOT 5 & LOT 6
66 LISA A SEWARD 57-03061.000 LOT 7 & LOT 8
67 LOUIS A & THELMA L BONI 57-04148.000 LOT 9 & LOT 10
68 SANDRA L MAGI 57-04995.000

RP6010 RP6011 RP6012 RP6013 RP6001 RP6002 RP6003 RP6004 RP6005 RP6009 RP6101 RP6102 RP6103 RP6801 RP6802 RP6803 CP06 SV90135 DND SV90136 DND SV90137 DND SV90138 DND SV90140 SV90141 ERI0250035 60-WD1 60-WD2 60-WD3 60-T 61-WD 68-WD

CROSS REFERENCE

Sub-Set Sheet No.	Description
---	Lease and Easement Summary
3, 4	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/21/14	REVISED SUSPEND WORK FLAG
JJ	4/19/14	PAR. 60; ADDED 60-WD3

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 15+00 TO STA. 20+75

ERI-250-0.00

98/178
597/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

RESUME WORK STA. 65+95.00
RESUME ACQUISITION STA. 67+65.00
10' WIDE DRIVE EASEMENT BENEFITS PARCEL 122
PIPE CREEK
127 ROGER L ANDREWS TR 32-02815.000
122 MARCIA J KILBANE, TRUSTEE 32-02815.001
123 HARALAMBOS GONOS 32-00427.000
124 HARALAMBOS GONOS AKA HARALAMBOS GONOS 32-00426.000
#3002 DIANNA'S DELI REST.
LAMAR BOARD (7626) ADC # 30890 & 30891
ABAN. SITE (FORMER PONDEROSA)
TRAILER SHOP
TWICE THE ICE
ASPH.
45'
82'
BRUSH
8"
CONST. LIMITS
N54°07'57"E
S54°07'57"W
+97, Com. Drive, Remove
+47, Com. Drive, Remove
+42, Com. Drive, Remove
123-T
124-T
LANDSCAPE WITH TIES AND ROCKS
DIANNA'S DELI REST. SIGN
8" ASPH.
SAVE
DO NOT DISTURB
LANDSCAPING TO BE REMOVED
EXIT ONLY SIGN
CONC.
ASPH.
Ex SH
Ex U
TMP
5 66 67 68 69 7
S 35° 52' 03" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
US 250 (MILAN RD.)
MATCH LINE: STA. 70+00 (SEE SHEET 101)
53'
#2905 RODE WAY INN
16"
CHAIN LINK
RES. #2917
4"
23'
125 CITY OF SANDUSKY 32-63001.000
CEMETERY

CROSS REFERENCE	
Sub-Set Sheet No.	Description
1	Lease and Easement Summary
4, 5	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	2/12/14	PAR. 124; ADDED SAVE TO OVHD. SIGN

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 65+00 TO STA. 70+00

ERI-250-0.00

99/178
598/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

127 ROGER L ANDREWS TR 32-02815.000

10' WIDE DRIVE EASEMENT BENEFITS PARCEL 122

122 MARCIA J KILBANE, TRUSTEE 32-02815.001

123 HARALAMBOS GONOS 32-00427.000

124 HARALAMBOS GONOS AKA HARALAMBOS GONOS 32-00426.000

125 CITY OF SANDUSKY 32-63001.000

PIPE CREEK

RESUME PROJECT STA. 66+28.84 SLM = 1.26

RESUME ACQUISITION STA. 67+65.00

MATCH LINE: STA. 70+00 (SEE SHEET 102)

Ex SH — Ex U — PL — TMP

+37.96 50.00' LT.
+65.00 53.00' LT.
+65.00 50.00' LT.
+81.86 50.00' LT.
+81.86 45.00' LT.
+00.00 53.00' LT.
+12.96 75.00' LT.
+12.96 45.00' LT.
+12.96 41.25' LT.
+54.00 97.00' LT.
+10.95
+37.96
+22.50 50.00' RT.
+56.87 45.00' RT.
+56.86 50.00' RT.

N54°07'57"E 3.00'
N54°07'57"E 5.00'
N54°07'57"E
S35°52'03"E 135.00'
S35°52'03"E 149.77'
S35°52'03"E 76.00'
S35°52'03"E 245.00'
S35°52'03"E 370.00'
N35°52'03"W 131.10'
N35°52'03"W 150.00'
N35°52'03"W
S64°03'50"E 46.56'
N84°38'32"E 25.54'
S54°08'10"W 5.00'
S41°07'57"W
S54°07'57"W

27.04' 16.86' 175.00' 30.00' 3.75' 50.00' 45.00' 41.25'

123-T 124-T 123A 124A 124B 123B,124D SV90101

5 66 67 68 69 71

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
4, 5	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 65+00 TO STA. 70+00

ERI-250-0.00

100 / 178

599 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP. SEC.2
BEATTY 500 ACRE TRACT

124
HARALANBOS GONOS
AKA HARALAMBOS GONOS
32-00426.000

10' WIDE DRIVE EASEMENT
BENEFITS PARCEL 122

124-T

+15, Com. Drive, Reconstruct

+94, Com. Drive, No Work

127
ROGER L ANDREWS TR
32-02815.000

PUTT-PUTT & GO-CARTS

#3020

GOOFY GOLF SIGN

32-03252.001

128
3104 MILAN INVESTMENTS LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04538.000

LAMAR BOARD (35121)
ADC # 25646 & 27721/27617
* ENCROACHMENT

ASPH. 8" PVC FENCE SAVE
PVC FENCE
CONST. LIMITS
BLACK IRON FENCE
6" & 12" Siphon
STM
BLACK IRON FENCE
SAVE
DO NOT DISTURB
Ex U
Ex SH
Ex SW
SAN 18"
CONC.
12"
8" W
bush
ASPH.
CONC.
ASPH.

(SEE SHEET 99)
MATCH LINE: STA. 70+00

70 71 72 73 74 75

S 35° 52' 03" E

℄ SURVEY & CONST.
US 250 (MILAN RD.)

US 250 (MILAN RD.)

CP05

(SEE SHEET 103)
MATCH LINE: STA. 75+00

CONST. LIMITS
CONC.
Ex SH
WOOD POST W/ CABLE FNC
PARKVIEW
62'
6"
8"
12"
EX. 36" STM.
SULPHUR BROOK

CHAPEL
PATIO
125
CITY OF SANDUSKY
32-63001.000
CEMETERY

* DENOTES RIGHT OF WAY ENCROACHMENT

CROSS REFERENCE

Sub-Set	Sheet No.	Description
	1	Lease and Easement Summary
	4, 5	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 70+00 TO STA. 75+00

ERI-250-0.00

101/178

600/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP. SEC.2
BEATTY 500 ACRE TRACT

124
HARALANBOS GONOS
AKA HARALAMBOS GONOS
32-00426.000

10' WIDE DRIVE EASEMENT
BENEFITS PARCEL 122

127
ROGER L ANDREWS TR
32-02815.000

32-03252.001

128
3104 MILAN INVESTMENTS LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04538.000

124-T
124A
124B
128A
128B
128C
128-T
PP12804
SV90102
CP05

S35°52'03"E 76.00'
+30.00 97.00' LT.
43.00' N53°42'10"E
+30.33 54.00' LT.
S35°52'03"E 31.84'
S35°52'03"E 149.77'
N35°52'03"W 150.00'
N50°33'22"E
+62.17 54.00' LT.
9.02'
+62.73 45.00' LT.
38.98'
+62.96 41.25' LT.
+01.86 50.00' LT.
+01.86 45.00' LT.
S35°52'03"E 195.00'
+96.86 70.00' LT.
N54°07'57"E 20.00'
+96.86 50.00' LT.
S35°52'03"E 90.00'
+86.86 70.00' LT.
N54°07'57"E 20.00'
+86.86 50.00' LT.
+49.97 50.00' LT.
80.00' S35°52'03"E
S35°40'53"W 16.89'
+66.86 50.00' LT.
263.16'
N35°52'03"W 263.16'
S54°07'57"W 5.00'
+66.86 45.00' LT.
N14°40'57"E 238.91'
S35°40'53"W
Ex SW
Ex U
Ex SH

(SEE SHEET 100)
MATCH LINE: STA. 70+00

0 71 72 73 74 75

N35°52'03"W
S 35° 52' 03" E
℄ SURVEY & CONST.
US 250 (MILAN RD.)

(SEE SHEET 104)
MATCH LINE: STA. 75+00

Ex SH
S35°52'03"E 370.00'
+26.86 45.00' RT.
N54°06'37"E 5.00'
+26.87 50.00' RT.
S35°52'03"E 110.00'
+36.86 50.00' RT.
N54°07'57"E 20.00'
+36.86 70.00' RT.
S35°52'03"E 50.00'
+86.86 50.00' RT.
N54°07'57"E 20.00'
+86.86 70.00' RT.
S35°52'03"E 347.02'

SULPHUR BROOK

125
CITY OF SANDUSKY
32-63001.000

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
4, 5	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 70+00 TO STA. 75+00

ERI-250-0.00

102/178

601/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

[redacted]

ANYTIME FITNESS | #3104 POINTE PLAZA | REVOL WIRELESS | CHECK 'N GO | CIRILLA'S

128
3104 MILAN INVESTMENTS LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04538.000

131
THOMAS W. KARCHER
32-02771.000
RES. #3112

32-03688.000
RES. #3114
32-03319.000
RES. #3116

135
HARRY MCCLUSKY
32-03010.000
RES. #3118

137
SHAWN M TOVAR
32-01645.000
RES. #3202

GAR. | PATIO | GAR. | GAR. | GAR. | DECK | CHAIN LINK

+84, Com. Drive, No Work
+80, Res. Drive, Reconstruct
+45, Res. Drive, Reconstruct
+05, Res. Drive, Reconstruct
+65, Res. Drive, Reconstruct

74' | 48' | 45' | 41' | 46' | 46' | 30'
8" post | 6" post | POINTE PLAZA SIGN
128-T | 131-T1 | 131-T2 | 131-T3 | 135-T | 137-T

CONST. LIMITS | Ex SH | ASPH | CONC. | TMP | SAN | 18" | 8"W | 12"W | 48" STORM | 36" | 12"

DO NOT DISTURB | SAVE | DO NOT DISTURB | DO NOT DISTURB | DO NOT DISTURB | DO NOT DISTURB

45.00'

76 | 77 | 78 | 79

N35°52'03"W | S 35° 52' 03" E | S 35° 52' 03" E

℄ SURVEY & CONST.
US 250 (MILAN RD.)

US 250 (MILAN RD.)

(SEE SHEET 101)
MATCH LINE: STA. 75+00

MATCH LINE: STA. 80+00
(SEE SHEET 105)

125
CITY OF SANDUSKY
32-63001.000

130
JENNNIFER D MILLER
32-01160.000
RES. #3111

132
DANIEL L BRENNAN
32-01160.000
RES. #3113

134
BARRY K HARGROVE &
DEBORAH D HARGROVE
32-01501.000
RES. #3117

136
NANCY A. CHIOW
32-03906.000
RES. #3119

138
BRUNO T LIZZI &
MARY LOU LIZZI
32-02207.000
RES. #3201

27' | 23' | 30' | 30' | 28'
RATIO | DECK | PATIO | SHD.

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
4-6	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	10/23/13	PARCEL 131; REMOVED A & B CALLOUTS

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

R/W DESIGNER JJ
R/W REVIEWER DAP

PID NO. 88407

RIGHT OF WAY TOPO SHEET
STA. 75+00 TO STA. 80+00

ERI-250-0.00

103/178
602/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

PARCEL DETAIL TABLE

	POINT	STATION	OFFSET	COURSE	BEARING	DISTANCE
135-T	14	79+10.02	45.00' LT.	14-13	N54°07'57"E	29.00'
	13	79+10.02	74.00' LT.	13-15	S35°52'03"E	9.98'
	15	79+20.00	74.00' LT.	15-16	S54°07'57"W	24.00'
	16	79+20.00	50.00' LT.	16-17	S35°52'03"E	30.00'
	17	79+50.00	50.00' LT.	17-18	N54°07'57"E	19.00'
	18	79+50.00	69.00' LT.	18-19	S35°52'03"E	20.02'
	19	79+70.02	69.00' LT.	19-20	S54°07'57"W	24.00'
	20	79+70.02	45.00' LT.	20-14	N35°52'03"W	60.00'

PARCEL DETAIL TABLE

	POINT	STATION	OFFSET	COURSE	BEARING	DISTANCE
131-T1	1	77+30.02	45.00' LT.	1-2	N54°07'57"E	5.00'
	2	77+30.02	50.00' LT.	2-3	S35°52'03"E	24.98'
	3	77+55.00	50.00' LT.	3-4	N54°07'57"E	39.00'
	4	77+55.00	89.00' LT.	4-5	S35°52'03"E	35.02'
	5	77+90.02	89.00' LT.	5-40	S54°07'57"W	44.00'
	40	77+90.02	45.00' LT.	40-1	N35°52'03"W	60.00'
131-T2	40	77+90.02	45.00' LT.	40-6	N54°07'57"E	5.00'
	6	77+90.02	50.00' LT.	6-7	S35°52'03"E	39.98'
	7	78+30.00	50.00' LT.	7-8	N54°07'57"E	32.00'
	8	78+30.00	82.00' LT.	8-41	S35°52'03"E	20.02'
	41	78+50.02	82.00' LT.	41-42	S54°07'57"W	37.00'
	42	78+50.02	45.00' LT.	42-40	N35°52'03"W	60.00'
131-T3	42	78+50.02	45.00' LT.	42-41	N54°07'57"E	37.00'
	41	78+50.02	82.00' LT.	41-9	S35°52'03"E	9.98'
	9	78+60.00	82.00' LT.	9-10	S54°07'57"W	32.00'
	10	78+60.00	50.00' LT.	10-11	S35°52'03"E	30.00'
	11	78+90.00	50.00' LT.	11-12	N54°07'57"E	24.00'
	12	78+90.00	74.00' LT.	12-13	S35°52'03"E	20.02'
	13	79+10.02	74.00' LT.	13-14	S54°07'57"W	29.00'
	14	79+10.02	45.00' LT.	14-42	N35°52'03"W	60.00'

(SEE SHEET 102)
MATCH LINE: STA. 75+00

128A
S35°52'03"E 263.16'
N35°52'03"W 263.16'
128-T
128D
TMP
Ex SH

128
3104 MILAN INVESTMENTS LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04538.000

+30.02
2 50.00' LT.
+30.02
1 45.00' LT.

131-T1
131-T2
131-T3
131A
131B
131D
131E
131F
131G
41
40
42
PP12806
DND

131
THOMAS W. KARCHER
32-02771.000

32-03688.000
32-03319.000

135
HARRY MCCLUSKY
32-03010.000

137
SHAWN M TOVAR
32-01645.000

135A,137B
135B,137C
135-T
137-T
137A
SEE SHT. 106 FOR 137-T
PARCEL DETAIL TABLE

S54°07'57"W

+30.02
45.00'
76 238.91' 77 78 79
N35°52'03"W S 35° 52' 03" E
S 35° 52' 03" E
ERI0250007
℄ SURVEY & CONST.
US 250 (MILAN RD.)

(SEE SHEET 106)
MATCH LINE: STA. 80+00

5.00
Ex SH S35°52'03"E 347.02' Ex SH

125
CITY OF SANDUSKY
32-63001.000

+33.89 45.00' RT.
+33.88 50.00' RT.
66.61'
+00.50 45.00' RT.
60.00'
+60.50 45.00' RT.
60.00'
+20.50 45.00' RT.
136
NANCY A. CHIOW
32-03906.000
60.00'
+80.50 45.00' RT.
75.00'

S54°12'46"W

130
JENNNIFER D MILLER
32-01160.000

132
DANIEL L BRENNAN
32-01160.000

134
BARRY K HARGROVE &
DEBORAH D HARGROVE
32-01501.000

138
BRUNO T LIZZI &
MARY LOU LIZZI
32-02207.000

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
4-6	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	10/23/13	PARCEL 131; REMOVED A & B CALLOUTS

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 75+00 TO STA. 80+00

ERI-250-0.00

104 / 178

603 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

SHAWN M TOVAR
32-01645.000

ELHAJ REAL ESTATE, LLC
32-03497.000

KENT C. MADISON, III
32-00324.000

MAURICE H BRAGG AND BETTY J BRAGG, TRUSTEES OF THE BRAGG FAMILY REVOCABLE LIVING TRUST, UAD SEPTEMBER 1, 1998
32-00043.000

ELOISE M JOHNSON
NKA ELOISE M. RHODES
32-00391.000

MARY E KARCHER, TRUSTEE OF THE WILLIAM C. KARCHER AND MARY E. KARCHER TRUST
32-02559.000

#3304 LAQUINTA INN

MILAN II COMPANY, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04350.000

EASTWOOD DRIVE
(60' R/W)

RES. #3202 · RES. #3204 · RES. #3206 · RES. #3210 · RES. #3212 · RES. #3214

+22, Res. Drive, Reconstruct
+83, Res. Drive, Reconstruct
+43, Res. Drive, Reconstruct
+64, Res. Drive Remove
+32, Res. Drive Reconstruct
+48, Res. Drive Reconstruct
+66, Com. Drive Remove

137-T · 139-T · 141-T · 143-T · 145-T · 147-T · 148-T

DO NOT DISTURB
CONST. LIMITS
CP10
CONC. BLK. PLANTER
bush SAVE
6' PRIV. FNC.
EX. PKG BLOCKS
EX. CURB

US 250 (MILAN RD.)
N 35° 52' 003" W
℄ SURVEY & CONST. US 250 (MILAN RD.)

(SEE SHEET 103) MATCH LINE: STA. 80+00
(SEE SHEET 107) MATCH LINE: STA. 85+00

RES. #3201 · RES. #3203 · RES. #3207 · RES. #3215 · RES. #3301 · RES. #3303

138 BRUNO T LIZZI & MARY LOU LIZZI 32-02207.000
140 DIANA SCHECK & MARY E KARCHER TR 32-01648.000
142 KAREN BALCONI GHEZZI & BONNIE L BALCONI 32-00149.000
146 MARY E KARCHER & DIANA SCHECK 32-00519.000
149 ELEANOR L VOJTASH 32-00749.000
150 JASON THOM & TABITHA THOM 32-00676.000

ALLEY (14' WIDE R/W)
OAKLAND AVE. (55' R/W)
32-01803.000
PROSPECT HEIGHTS ALLOTMENT D.B. CHAMBERS SUBDIVISION PLAT VOL. 6, PG. 2
LOT 7 · LOT 5 · LOT 3

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
6, 7	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 139; REVISED OWNERSHIP NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 80+00 TO STA. 85+00
ERI-250-0.00

105/178
604/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

SHAWN M TOVAR
32-01645.000

KENT C. MADISON, III
32-00324.000

ELHAJ REAL ESTATE, LLC
32-03497.000

EASTWOOD DRIVE
60' R/W

MAURICE H BRAGG AND BETTY J BRAGG, TRUSTEES OF THE BRAGG FAMILY REVOCABLE LIVING TRUST, UAD SEPTEMBER 1, 1998
32-00043.000

ELOISE M JOHNSON
NKA ELOISE M. RHODES
32-00391.000

MARY E KARCHER, TRUSTEE OF THE WILLIAM C. KARCHER AND MARY E. KARCHER TRUST
32-02559.000

MILAN II COMPANY, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04350.000

10' V.301/P.309

(SEE SHEET 104)
MATCH LINE: STA. 80+00

(SEE SHEET 108)
MATCH LINE: STA. 85+00

N 35° 52' 003" W
℄ SURVEY & CONST.
US 250 (MILAN RD.)

PP14102 DND
PP14104
CP10
PP14504

BRUNO T LIZZI & MARY LOU LIZZI
32-02207.000

DIANA SCHECK & MARY E KARCHER TR
32-01648.000

KAREN BALCONI GHEZZI & BONNIE L BALCONI
32-00149.000

14' WIDE ALLEY

OAKLAND AVE. (55' R/W)

PROSPECT HEIGHTS ALLOTMENT
D.B. CHAMBERS SUBDIVISION
PLAT VOL. 6, PG. 2

LOT 7
LOT 5
LOT 3

ELEANOR L VOJTASH
32-00749.000

JASON THOM & TABITHA THOM
32-00676.000

MARY E KARCHER & DIANA SCHECK
32-00519.000

32-01803.000

PARCEL DETAIL TABLE

	POINT	STATION	OFFSET	COURSE	BEARING	DISTANCE
137-T	20	79+70.02	45.00' LT.	20-19	N54°07'57"E	24.00'
	19	79+70.02	69.00' LT.	19-21	S35°52'03"E	9.98'
	21	79+80.00	69.00' LT.	21-22	S54°07'57"W	19.00'
	22	79+80.00	50.00' LT.	22-23	S35°52'03"E	25.00'
	23	80+05.00	50.00' LT.	23-24	N54°07'57"E	11.00'
	24	80+05.00	61.00' LT.	24-25	S35°52'03"E	25.02'
	25	80+30.02	61.00' LT.	25-26	S54°07'57"W	16.00'
	26	80+30.02	45.00' LT.	26-20	N35°52'03"W	60.00'
139-T	26	80+30.02	45.00' LT.	26-25	N54°07'57"E	16.00'
	25	80+30.02	61.00' LT.	25-27	S35°52'03"E	9.98'
	27	80+40.00	61.00' LT.	27-28	S54°07'57"W	11.00'
	28	80+40.00	50.00' LT.	28-29	S35°52'03"E	30.00'
	29	80+70.00	50.00' LT.	29-30	N54°07'57"E	15.00'
	30	80+70.00	65.00' LT.	30-31	S35°52'03"E	20.02'
	31	80+90.02	65.00' LT.	31-32	S54°07'57"W	20.00'
	32	80+90.02	45.00' LT.	32-26	N35°52'03"W	60.00'
141-T	32	80+90.02	45.00' LT.	32-31	N54°07'57"E	20.00'
	31	80+90.02	65.00' LT.	31-33	S35°52'03"E	9.98'
	33	81+00.00	65.00' LT.	33-34	S54°07'57"W	15.00'
	34	81+00.00	50.00' LT.	34-35	S35°52'03"E	30.00'
	35	81+30.00	50.00' LT.	35-36	N54°07'57"E	10.00'
	36	81+30.00	60.00' LT.	36-37	S35°52'03"E	20.02'
	37	81+50.02	60.00' LT.	37-38	S54°07'57"W	5.00'
	38	81+50.02	55.00' LT.	38-39	N80°52'03"W	14.14'
	39	81+40.02	45.00' LT.	39-32	N35°52'03"W	50.00'

CROSS REFERENCE

Sub-Set Sheet No.	Description
1	Lease and Easement Summary
6, 7	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 139; REVISED OWNERSHIP NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 80+00 TO STA. 85+00

ERI-250-0.00

106/178

605/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

148
MILAN II COMPANY, LTD
32-04350.000
#3304 LAQUINTA INN
#3306 ANDY'S CHINA DRAGON
153
ANDREW K TAM & FLORENCE Y TAM
32-04351.000
154
CORSO REALTY, INC. AN OHIO CORPORATION 32-04634.000
156
THOMAS E COSGROVE
32-01990.000
157
AUGUST J CORSO AND LINDA C CORSO
32-00731.000
RES. #3310
RES. #3316
PATIO
CAR.
CONC.
CO. PORCH
ASPH.
#3404 CORSO'S FLOWER AND GARDEN CENTER
CORSO'S GARDEN CENTER SIGN
LAQUINTA INN SIGN
DRAGON SIGN
DO NOT DISTURB
DO NOT DISTURB EXIT SIGN
SAVE
EXIT
ENT.
148-T
153-T
154-T1
154-T2
156-T
157-T
+34, Com. Dr. Reconstruct
+30, Com. Dr.. Reconstruct
+62, Resr. Drive Reconstruct
+34, Com. Dr., Reconstruct
+07, Com. Drive, Remove
+40, Com. Drive Remove
CONST. LIMITS
Ex SH
Ex SW
Ex U
SAN
W
8"
18"
24"
12"
78'
64'
28'
23'
6"
* ENCROACHMENT
400
86
87
88
89
N 35° 52' 003" W
℄ SURVEY & CONST. US 250 (MILAN RD.)
US 250 (MILAN RD.)
TO BE REMOVED
152-T1
152-T2
155-T
158-T
159-T
+96, Comm. Drive Removed
+37, Com. Drive, Remove
+78, Com. Drive, No Work
+73, Com. Drive, New
+16, Com. Drive, Remove
+00, Com. Drive, Reconstruct
ECONOLODGE SIGN
CASA REAL MEXICAN REST. SIGN
SAW CUT
MINGS GARDEN SIGN
DO NOT DISTURB MANOR SIGN
DO NOT DISTURB LIGHT POLE
DO NOT DISTURB COLDWELL BANKER SIGN
DO NOT DISTURB EXIST. WALL
EX. WALL
WALK
STONE
WOOD FNC.
BRUSH
LOT 3
LOT 1
150
151
152
155
159
160
158
RES. #3305
GAR.
#3313 COLDWELL BANKER
#3313 DEAN S. LUCA ATTY.
#3317 MINGS GARDEN
#3321 FRIENDLY'S
DECK
JASON THOM & TABITHA THOM
32-00676.000
MATTHEW R MAPUS
32-02617.000
S & S REALTY LTD., AN OHIO LIMITED LIABILITY COMPANY
32-03737.000
ROBERT H ROUTH AND SALLY E ROUTH
32-00969.000
O ICE LLC
32-03676.000
SANDUSKY SKATE WORLD PROPERTIES LLC A LIMITED LIABILITY COMPANY
32-03062.000
NOVEMBER SUBDIVISION PLAT VOL. 21, PG. 69
JASON C MING & JANICE H MING
32-01248.000
(SEE SHEET 105) MATCH LINE: STA. 85+00
(SEE SHEET 109) MATCH LINE: STA. 90+00
* DENOTES RIGHT OF WAY ENCROACHMENT

CROSS REFERENCE

Sub-Set Sheet No.	Description
1-3	Lease and Easement Summary
7, 8, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/22/14	PAR. 158; REVISED PROP. DRIVE
JJ	10/23/13	PAR. 152; REMOVE SIGN AT 86+10, RT.
JJ	10/04/13	PAR. 160, DISPOSITION OF LIGHT POLE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 85+00 TO STA. 90+00
ERI-250-0.00

107 / 178
606 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

CROSS REFERENCE

Sub-Set Sheet No.	Description
1-3	Lease and Easement Summary
7, 8, 24	Summary of Additional R/W

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 85+00 TO STA. 90+00

ERI-250-0.00

148 MILAN II COMPANY, LTD 32-04350.000
153 ANDREW K TAM & FLORENCE Y TAM 32-04351.000
154 CORSO REALTY, INC AN OHIO CORPORATION 32-04634.000
156 THOMAS E COSGROVE 32-01990.000
157 AUGUST J CORSO AND LINDA C CORSO 32-00731.000
154 CORSO REALTY, INC AN OHIO CORPORATION 32-04634.000
152 S & S REALTY LTD., AN OHIO LIMITED LIABILITY COMPANY 32-03737.000
155 ROBERT H ROUTH AND SALLY E ROUTH 32-00969.000
160 O ICE LLC 32-03676.000
159 SANDUSKY SKATE WORLD PROPERTIES LLC A LIMITED LIABILITY COMPANY 32-03062.000
158 JASON C MING & JANICE H MING 32-01248.000
151 MATTHEW R MAPUS 32-02617.000
150 JASON THOM & TABITHA THOM 32-00676.000
LOT 1
LOT 3
NOVEMBER SUBDIVISION PLAT VOL. 21, PG. 69
400
℄ SURVEY & CONST. US 250 (MILAN RD.)
MATCH LINE: STA. 85+00 (SEE SHEET 106)
MATCH LINE: STA. 90+00 (SEE SHEET 110)
Ex SH
Ex SW
Ex U
TMP
148-T
153-T
154-T1
156-T
157-T
154-T2
152-T1
152-T2
158-T
155-T
159-T
160-T
148A,153A, 155E
148B,153B
152E
152A,155A,158A, 159C,160A
154A,154B
154B
158A,159C
158B,159D
161B
158E
158F
154H
157A
H1420
H1419
H1414
PP15202
PP15502 DND
SV90111
S35°52'03"E 74.12'
N54°07'57"E 27.50'
S23°35'22"W 34.83'
S35°52'03"E 16.00'
S85°52'23"E 8.83'
S03°25'42"W 10.68'
N54°07'57"E 10.00'
N35°52'03"W 45.00'
S54°07'57"W 10.00'
N35°52'03"W 100.00'
S35°52'03"E 90.00'
N35°52'03"W 12.40'
N35°52'03"W 69.14'
S35°52'03"E 732.60'
S54°12'33"W
S53°58'57"W
S54°00'27"W
35.02'
118.10'
110.00'
91.17'
48.43'
48.62'
29.72'
11.77'
51.40'
45.03'
50.31'
150.00'
90.00'
100.00'
28.00'
58.75'
69.08'
457.60'
712.73'
457.86'
27.98'
27.95'
64.99'
37.00'
27.99'
69.13'
+57.30 80.00' LT.
+12.00 80.00' LT.
+12.00 52.50' LT.
+55.98 45.00' LT.
+75.00 50.00' LT.
+66.17 50.00' LT.
+65.98 45.00' LT.
+14.60 50.00' LT.
+14.60 45.00' LT.
+44.32 50.00' LT.
+50.00 56.77' LT.
+66.00 56.77' LT.
+9.00 56.77' LT.
+75.00 56.77' LT.
+83.27 50.00' LT. 34.13'
+66.00 45.00' LT.
+17.40 57.00' LT.
+17.40 50.00' LT.
+17.40 45.00' LT.
+62.25
+64.29
+12.25
+14.60
+02.25
+17.40
+30.25
+89.00
+62.37 45.00' RT.
+12.19 45.00' RT.
+75.00 45.00' RT.
+20.00 45.00' RT.
+20.00 55.00' RT.
+00.00 45.00' RT.
+00.00 55.00' RT.
+12.37 45.00' RT.
+12.40 55.00' RT.
+12.47 82.00' RT.
+02.37 45.00' RT.
+02.47 82.00' RT.
+02.54 109.99' RT.
+30.35 45.00' RT.
+89.10 45.00' RT.
+89.14 60.00' RT.
+30.49 109.99' RT.
S54°07'57"W 10.00'
S53°58'57"W 90.00'
S53°58'57"W 64.99'
S53°58'57"W 27.99'
S53°58'57"W 64.99'
S54°00'27"W
12.63'
40.00'
50.18'
27.00'
15.00'
12.37'
+00.00 45.00' RT.
+00.00 55.00' RT.
+12.40 55.00' RT.
+02.37 45.00' RT.
+02.54 109.99' RT.
+30.35 45.00' RT.
+89.10 45.00' RT.
+89.14 60.00' RT.
+30.49 109.99' RT.
N54°07'57"E 10.00'
N35°52'03"W 12.40'
N35°52'03"W 100.00'
N35°52'03"W 69.14'
S54°07'57"W
S54°07'57"W
S54°07'57"W

ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

#3404 CORSO'S FLOWER AND GARDEN CENTER
#3502 CORSO'S LANDSCAPE OFFICE
154 CORSO REALTY, INC AN OHIO CORPORATION 32-04634.000
BLACK IRON FENCE
ASPH.
PLANTER
4' C.L. FNC.
154-T2
CONST. LIMITS
LANDSCAPE BLOCK WALL
10'-4"B
DO NOT DISTURB
LANDSCAPING TO BE REMOVED (*)
WATER SPIGOT*
DO NOT DISTURB
TO BE REMOVED
bushes
32-04632.500
32-00724.000
℄ U.G.
LANDSCAPE AREA
CORSO'S GARDEN CENTER SIGN
CONC. 32-00725.000
+22, New Com. Drive
TO BE REMOVED
154G
25'R TYP.
+46, Comm. Drive Remove
+91, Comm. Drive Remove
101'
ELEC. OUTLET*
WATER SPIGOT*
LANDSCAPING TO BE REMOVED (*)
TO BE REMOVED
154A, 154B
DO NOT DISTURB
(SEE SHEET 107) MATCH LINE: STA. 90+00
(SEE SHEET 111) MATCH LINE: STA. 95+00
91 92 93 94
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 35° 52' 03" W
US 250 (MILAN RD.)
TO BE REMOVED
162D
CP11
ABANDONED 6"
161C
158B,159D
CONC.
ENT.
SAVE
ASPH.
bushes
bush
SIGN
163C
167E
167B
167A
167D
CONST. LIMITS
160-T
161-T
162-T
163-T
+32 Com. Drive Reconstruct
+16, Com. Drive Remove
+79, Com. Drive Remove
FRIENDLY'S SIGN
DO NOT DISTURB
CAR WASH
DO NOT DISTURB
DO NOT DISTURB LANDSCAPING & LIGHT POLE
MONRO MUFFLER BRAKE
163B,167C, 170B,174G
162A,163A
162B
79'
80'
160
O ICE LLC 32-03676.000
161
KAKIKA ENTERPRISES, LTD AN OHIO LIMITED LIABILITY COMPANY 32-04811.000
162
250 CENTRE, LTD AN OHIO LIMITED LIABILITY COMPANY 32-04809.000
163
REALTY INCOME CORPORATION, A MARYLAND CORPORATION 32-00790.000
MONRO MUFFLER BRAKES #3411
160L1
162C,163E
163L1
WOODLAWN AVENUE
Ex R/W
163-B,167-C, 170-B,174-G
RES. #3505
RES. #3501
168
RALPH D BULLION 32-00518.000
167
JAMES A JUSTI & FATIMA BO JUSTI 32-01802.000
DECK
STN.
GAR.
CHAIN LINK FENCE
STUZINGER ALLOTMENT PLAT VOL. 6, PG. 63
DEWITT SUBDIVISION PLAT VOL. 4, PG. 10
LOT 1
41'
26'
19'
* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 162; CHG. ENT. SIGN TO BE REMOVED
JJ	11/25/13	PAR. 154; NEW DRIVE LOC. STA. 93+22

DATE COMPLETED 9/12/13

CROSS REFERENCE

Sub-Set Sheet No.	Description
2-4	Lease and Easement Summary
7, 8	Summary of Additional R/W

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 90+00 TO STA. 95+00

ERI-250-0.00

109/178
608/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT

CROSS REFERENCE	
Sub-Set Sheet No.	Description
2-4	Lease and Easement Summary
7, 8	Summary of Additional R/W

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 90+00 TO STA. 95+00

ERI-250-0.00

110 / 178
609 / 677

(SEE SHEET 108) MATCH LINE: STA. 90+00

154
CORSO REALTY, INC
AN OHIO CORPORATION
32-04634.000

32-00724.000

32-04632.500

32-00725.000

HALLAM TRACT LOT 39
BEATTY 500 ACRE TRACK

S52°52'57"W

154-T

457.60'
S35°52'03"E 732.60'
712.73'
457.86'

TMP
Ex SH
Ex SW
Ex U

154G
120.00'
60.01'
94.99'
+55.01
57.00' LT.
12.00'
74.86'
+55.27
45.00' LT.

+75.00
57.00' LT.
+75.26
45.00' LT.
+95.00
57.00' LT.
+95.26
45.00' LT.
S35°52'03"E 120.00'

154A,154B

+58.08
69.08'
ERI0250009
53.00'
+11.08
30.00'
+41.08
185.42'
+76.24
+96.24
+26.50
+56.25
45.00'
45.01'

91 92 93 94 95

161C
162D
℄ SURVEY & CONST.
US 250 (MILAN RD.)

CP11
163C

SV90114 SV90113 SV90112

+58.23
45.00' RT.
N35°52'03"W 69.13'
+58.28
60.00' RT.
+11.23
45.00' RT.
53.00'
+41.23
45.00' RT.
+41.28
60.00' RT.
30.00'
80.77'
80.72'
S35°52'03"E 69.61'
+91.61
45.00' RT.
+22.00
45.00' RT.
S54°07'57"W
15.00'
+22.00
60.00' RT.
N08°58'01"E
21.27'
+06.70
60.00' RT.
15.00'
30.00'
S35°52'03"E 53.00'
N35°52'03"W 69.14'
+11.28
60.00' RT.

158B,159D
160-T
161-T
162B
162-T
162A,163A
163-T
163B,167C,
170B,174G

160
O ICE LLC
32-03676.000

161
KAKIKA ENTERPRISES, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04811.000

162
250 CENTRE, LTD
AN OHIO LIMITED
LIABILITY COMPANY
32-04809.000

163
REALTY INCOME CORPORATION,
A MARYLAND CORPORATION
32-00790.000

160L1
162C,163E
163L1
163A

S53°56'40"W
N53°56'40"E
Ex R/W

WOODLAWN AVENUE
(40' R/W)

167E 167B 167A 167D H1418

+61.61
45.00' RT.
S80°56'38"E
21.18'
+46.70
59.95' RT.
87.00'
+33.65
45.00' RT.
45.09'
+78.74
45.00' RT.
88.65'
S53°59'17"W

163-B,167-C,
170-B,174-G

LOT 801
LOT 803
LOT 805
LOT 1

167
JAMES A JUSTI &
FATIMA BO JUSTI
32-01802.000

168
RALPH D BULLION
32-00518.000

STUZINGER ALLOTMENT
PLAT VOL. 6, PG. 63
DEWITT SUBDIVISION
PLAT VOL. 4, PG. 10

(SEE SHEET 112) MATCH LINE: STA. 95+00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOT 39

CURVE DATA
℄ SURVEY & CONST.
US 250 (MILAN RD.)
P.I.= Sta. 98+28.34
D = 1° 09′ 45″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 116.25′
L = 232.49′
E = 0.59′
C = 232.49′
C.B. = S 36° 26′ 55″ E

FORCE AVENUE (60′ R/W)
#3502 CORSO'S LANDSCAPE OFFICE
#3612 ALDI'S
CORSO REALTY, INC AN OHIO CORPORATION 32-00725.000
CORSO'S LANDSCAPE OFFICE
SANDBORO LIMITED PARTNERSHIP, AN OHIO LIMITED PARTNERSHIP 32-03356.009
LAKE CREST TOWN CENTER SUBDIVISION PLAT VOL. 48, PG. 85 LOT 2
CONST. LIMITS
HANDICAP PARKING
bushes
brick
DO NOT DISTURB
Com. Apron, Remove
(SEE SHEET 109) MATCH LINE: STA. 95+00
MATCH LINE: STA. 99+00 (SEE SHEET 113)
PC Sta. 97+12.09
N 35° 52′ 03″ W
℄ SURVEY & CONST. US 250 (MILAN RD.)
ABANDONED 6″
US 250 (MILAN RD.)
MOVABLE YARD SIGNS
ANDREW BARISCH 32-02168.000
RES. #3511
RES. #3601
RES. #3603
RES. #3605
RES. #919
SHED
PATIO
LISA KROMER 32-02035.000
GEORGE DEWITT'S PLAT NO. 5 PLAT VOL. 4, PG. 20
DR RICK MCKINNEY & SHEILA MCKINNEY 32-02327.000
CRAIG A OHLEMACHER & MARY H REAGAN-OHLEMACHER 32-00382.000
PRO CLEAN LASERWASH LTD 32-03444.000
CAR WASH
ENTER ONLY
#3609 PRO-CLEAN LASER WASH CAR WASH
HALLAM TRACT
BEATTY 500 ACRE TRACT
LOT 39
PLAT OF TRAGESER'S SUBDIVISION PLAT VOL. 6, PG. 7
BOSLOW'S SUBDIVISION PLAT VOL. 4, PG. 17
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 9
LOT 38
ASPH.
CONC.
GAR.
ANTENNA TV
U.G.
STN.
154
154-T2
169
170
171
172
174
175
175-T
401

CROSS REFERENCE	
Sub-Set Sheet No.	Description
2, 4, 5	Lease and Easement Summary
7-9, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 95+00 TO STA. 99+00

ERI-250-0.00

111 / 178
610 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOT 39

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	56°37'59"	60.00'	59.31'	56.92'	N64°11'02"W
R2	33°32'50"	60.00'	35.13'	34.63'	N19°05'03"W
R3	01°10'20"	11414.16'	233.51'	233.51'	N36°26'38"W

CROSS REFERENCE

Sub-Set Sheet No.	Description
2, 4, 5	Lease and Easement Summary
7-9, 24	Summary of Additional R/W

CURVE DATA
℄ SURVEY & CONST.
US 250 (MILAN RD.)

P.I.= Sta. 98+28.34
D = 1° 09' 45" (LT)
Dc = 0° 30' 00"
R = 11,459.16'
T = 116.25'
L = 232.49'
E = 0.59'
C = 232.49'
C.B. = S 36° 26' 55" E

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 95+00 TO STA. 99+00

ERI-250-0.00

112 / 178
611 / 677

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOT 39 & 40

LAKE CREST TOWN CENTER SUBDIVISION
PLAT VOL. 48, PG. 85
LOT 2

LAKE CREST TOWN CENTER SUBDIVISION
PLAT VOL. 48, PG. 85
LOT 3

CURVE DATA
℄ SURVEY & CONST.
US 250 (MILAN RD.)
P.I.= Sta. 98+28.34
D = 1° 09′ 45″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 116.25′
L = 232.49′
E = 0.59′
C = 232.49′
C.B. = S 36° 26′ 55″ E

SUSPEND ACQUISITION
STA. 100+33.45

SUSPEND WORK
STA. 102+09.19

DEWITT AVE.
(90′ R/W)

DEWITT AVENUE
(45′ R/W)

LOT 39
LOT 40

175
SANDBORO LIMITED PARTNERSHIP
AN OHIO LIMITED PARTNERSHIP
32-03356.009

176
MAPLE CITY BUILDERS LLC
32-03356.010

174
PRO CLEAN LASERWASH LTD
32-03444.000

177
STATE OF OHIO-SOLDIERS AND SAILORS HOME
32-61002.000

401

175-T

#3609
PRO-CLEAN
LASER WASH
CAR WASH

LOT 9
BOSLOW'S SUBDIVISION
PLAT VOL. 4, PG. 17

R/W PER ERI-250-1.92
PID NO. 83548

US 250 (MILAN RD.)

ASPH.
CONST. LIMITS
U.G.
ALDI'S/MENARD'S U.G.
CAR WASH
VACUUM
VACUUM
WALK SIGNAL POLE
ABANDONED 6"
6" ABAND.
CONC.
CONC. BLOCK WALL
CHAIN LINK FENCE
CONC. BLOCK SIGN VETERAN HOME
SIGN NOTHING ON SIGN
BLDG. SITE AVAILABLE
STN.
PT Sta. 99+44.58
(SEE SHEET 111)
MATCH LINE: STA. 99+00
76′

CROSS REFERENCE

Sub-Set Sheet No.	Description
4, 5	Lease and Easement Summary
9, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 99+00 TO STA. 104+00

ERI-250-0.00

113 / 178

612
677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
BEATTY 500 ACRE TRACT
HALLAM TRACT LOT 39 & 40

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R3	01°10'20"	11414.16'	233.51'	233.51'	N36°26'38"W
R4	89°59'50"	35.50'	55.76'	50.20'	N82°01'43"W

LAKE CREST TOWN CENTER SUBDIVISION
PLAT VOL. 48, PG. 85
LOT 3

LAKE CREST TOWN CENTER SUBDIVISION
PLAT VOL. 48, PG. 85
LOT 2

CURVE DATA
℄ SURVEY & CONST.
US 250 (MILAN RD.)
P.I.= Sta. 98+28.34
D = 1° 09' 45" (LT)
Dc = 0° 30' 00"
R = 11,459.16'
T = 116.25'
L = 232.49'
E = 0.59'
C = 232.49'
C.B. = S 36° 26' 55" E

175 SANDBORO LIMITED PARTNERSHIP, AN OHIO LIMITED PARTNERSHIP 32-03356.009

LOT 39
LOT 40

DEWITT AVE. (90' R/W)

S52°58'22"W
N52°58'22"E

Ex R/W
Ex SW
Ex U
MS Ex SW
MS Ex U

175A
175J
175L1
175D
175G
175H
174B
174D
174E
174K
174M
174O

+33.45
80.50' LT.
+00.00
55.00' LT.
42.06'
S74°21'04"E
S36°29'08"E 321.87'
53.36'
N37°01'48"W
+97.94
45.00' LT.
+44.58
45.00' LT.
+44.58
45.00' RT.
+33.32
45.00' RT.
+57.84
80.00' RT.
+81.44
N53°45'24"E
S37°01'48"E

R3
R4
TMP
℄

175-T (SEE SHEET 112) MATCH LINE: STA. 99+00

PT Sta. 99+44.58

H1474 DND

SUSPEND WORK
STA. 102+09.19

SUSPEND ACQUISITION
STA. 100+33.45

176 MAPLE CITY BUILDERS LLC 32-03356.010

R/W PER ERI-250-1.92
PID NO. 83548

LOT 40

℄ SURVEY & CONST.
US 250 (MILAN RD.)

174 PRO CLEAN LASERWASH LTD 32-03444.000

177 STATE OF OHIO-SOLDIERS AND SAILORS HOME 32-61002.000

LOT 9
BOSLOW'S SUBDIVISION
PLAT VOL. 4, PG. 17

DEWITT AVENUE
(45' R/W)

99 100 101 102 103

Ex SH

CROSS REFERENCE

Sub-Set Sheet No.	Description
4, 5	Lease and Easement Summary
9, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 99+00 TO STA. 104+00

ERI-250-0.00

114 / 178

613
677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 31, 32 & 42

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 120+00 TO STA. 124+00

ERI-250-0.00

115/178
614/677

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RED LOBSTER
#4104 VICTORY HONDA OF SANDUSKY
#4108 PIZZA HUT
#4112 HOME SAVING BANK
TARGET DR.
ASPH.
TARGET U.G.
U.G.
80'
124'
96'
76'
RESUME WORK STA. 120+33.36
RESUME ACQISITION STA. 121+55.97
180
HOTY 250 TARGET LTD 32-01235.000
182
ARC CAFEHLD001 LLC A DELAWARE LIMITED LIABILITY COMPANY 32-00515.000
183
THE INDUSTRIAL SAVINGS AND LOAN ASSOCIATION 32-00453.000
PORTABLE SIGN
182-T
PIZZA HUT U.G.
HOMER SAVING U.G.
183-NO DISTURB
DO NOT DISTURB LANDSCAPING
R/W PER ERI-250-1.92 PID NO. 83548
CONST. LIMITS
R/W
TMP
65.89'
40.85'
Ex SH
Ex U
CTV
FOT
G
W
ROCKS (TYP.)
6" ABND.
SIGNAL POLE (151)
TH 4
TH 5
TH 7
TH 8
TH 9
TH 10
TH 11
TH 12
TH 13
TH 14
TH 15
TH 16
TH 17
TH 18
TH 19
TH 20
TH 21
TH 22
TH 23
TH 24
TH 25
TH 26
TH

ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 31, 32 & 42

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	45°34'21"	50.00'	39.77'	38.73'	S14°14'37"E
R2	32°53'26"	50.00'	28.70'	28.31'	S24°59'16"W

TARGET DR.
STRUB RD.
℄ SURVEY STUB RD.
℄ SURVEY & CONST. US 250 (MILAN RD.)
N52°30'12"E
S52°30'12"W
LOT 42
LOT 31
LOT 32
55.00'
45.00'
150.00'
S 37° 01' 48" E
865.87'
S37°01'48"E
442.16'
121.50'
82.45'
42.43'
27.73'
5.00'
40.85'
65.89'
25.50'
25.49'
88.49'
118.95'
64.29'
922.91'
50.99'
N48°20'23"W
N37°01'48"W 24.19'
N52°58'12"E 25.00'
N37°01'48"W 37.47'
+06.38
+56.38
+77.88
+60.35
+77.43
+60.00
+55.97
+21.86
+46.86
+56.01
+96.86
+71.86
+09.35
STA. 110+52.32
MATCH LINE: STA. 124+00 (SEE SHEET 118)

RESUME ACQUISITION STA. 121+55.97
RESUME WORK STA. 120+33.36
R/W PER ERI-250-1.92 PID NO. 83548

180 — HOTY 250 TARGET LTD 32-01235.000
182 — ARC CAFEHLD001 LLC A DELAWARE LIMITED LIABILITY COMPANY 32-00515.000
183 — THE INDUSTRIAL SAVINGS AND LOAN ASSOCIATION 32-00453.000
181 — THE WAGNER QUARRIES COMPANY AN OHIO CORPORATION, NKA HANSON AGGREGATES MIDWEST, INC. A KENTUCKY CORPORATION 32-04906.000
179 — PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY S3732-04906.0031

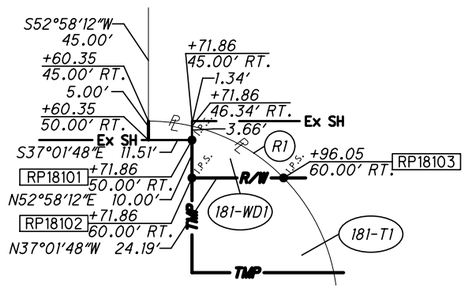
180I, 184Z,186K, 187T, 180D,184F, 180C,184D, 180B,184B, 182L, 182G,184H, 186E, 182H,184M, 186F,187G, 184L,186D, 187F, 183I, 184E, 179F,181F, 191E,205E, 179E,181E, 179L,181H, 191G, 179G,181G, 191F,205F, 179I, ERI0250013

182-T, 183-T, 179-WD, 181-WD1, 179-T1, 181-T1, R1, R2

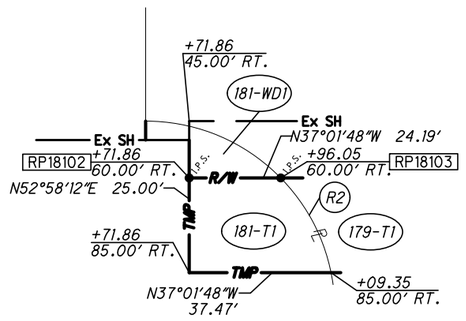
Ex SH, Ex U, R/W, TMP, P.O.T., M.N.F., P.O.S., P.O.E., P.I., P.T., P.C., P.L.

RP18101, RP18102, RP18103

181-WD1 DETAIL



181-T1 DETAIL



CROSS REFERENCE

Sub-Set Sheet No.	Description
5-7	Lease and Easement Summary
9, 10	Summary of Additional R/W

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 120+00 TO STA. 125+00

ERI-250-0.00

116 / 178
615 / 677

REV. BY	DATE	DESCRIPTION
JJ	5/22/14	PAR. 182; NEW OWNERSHIP NAME

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 32, 33, 42 & 43

SANDUSKY DEVELOPMENT CO., A LIMITED PARTNERSHIP 32-03102.000

#4204 McDONALD'S

#4210 BEST BUY

SANDUSKY MALL DRIVE NORTH

SUEMAR REALTY, INC AN OHIO CORPORATION 32-00262.000

SANDUSKY MALL OUTPARCELS LLC 32-03119.001

PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY 32-04906.003

PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY 32-04906.001

THE WAGNER QUARRIES COMPANY AN OHIO CORPORATION, NKA HANSON AGGREGATES MIDWEST, INC. A KENTUCKY CORPORATION 32-04906.000

HOW COL HOLDINGS LLC 32-04742.000

MILAN PC PROPERTY LLC 32-04907.000

32-04588.000

32-04906.003

WAGNER QUARRIES SUBDIVISION #1A PLAT VOL. 26, PG. 44

S 37° 01' 48" E

℄ SURVEY & CONST. US 250 (MILAN RD.)

CONST. LIMITS

DO NOT DISTURB LANDSCAPING, LIGHT POLE, OR FLAG POLE

DO NOT DISTURB ROCKS, POSTS, OR SIGN IN ISLAND

DO NOT DISTURB

ROCK (TYP.) (TO BE REMOVED)

DO NOT DISTURB LIGHT POLE

6" STEEL POST

DUMPSTER

BEST BUY U.G.

MOVABLE

6" WATER ABND.

GAS POST

WATER SPIGOT

TRASH CAN

SIGNAL BOX

COMMERCE PLAZA 4201 U.G.

McDONALDS U.G.

ENTER U.G.

EXIST U.G.

PICK UP WINDOW U.G.

LEE'S CHICKEN U.G.

WENDY'S U.G.

AVERY-GREENFIELD 69KV LINE AB SW

TENANT PARK ONLY

PILES

#4205 LEE'S CHICKEN

#4209 WENDY'S

LOT 18

LOT 17

LOT 16

LOT 32

LOT 33

184 185 186 179 181 300 301

184-T 185-T1 185-T2 186-T1 186-T2 179-T1 179-T2 181-T1 183-T 186-WD 179-WD

CP13

5'-12"B 6'-12"B @ 1.0% 10'-30"B

(SEE SHEET 115) MATCH LINE: STA. 124+00

MATCH LINE: STA. 129+00 (SEE SHEET 119)

CROSS REFERENCE	
Sub-Set Sheet No.	Description
5-9	Lease and Easement Summary
9-11, 23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 186; REVISED R/W TAKES, NEW T-2
KCD	10/23/13	PAR. 179, CORRECT AUD. NUMBERS
JJ	10/04/13	PAR. 184, DISPOSITION OF LIGHT POLE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 124+00 TO STA. 129+00

ERI-250-0.00

117 / 178

616 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 32, 33, 42 & 43

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R2	32°53'26"	50.00'	28.70'	28.31'	S24°59'16"W

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 124+00 TO STA. 129+00

ERI-250-0.00

118 / 178

617 / 677

SANDUSKY DEVELOPMENT CO., A LIMITED PARTNERSHIP 32-03102.000 (184)
SANDUSKY MALL DRIVE NORTH
SUEMAR REALTY, INC AN OHIO CORPORATION 32-00262.000 (185)
SANDUSKY MALL OUTPARCELS LLC 32-03119.001 (186)
PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY 32-04906.003 (179)
PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY 32-04906.001 (179)
HOW COL HOLDINGS LLC 32-04742.000 (300)
MILAN PC PROPERTY LLC 32-04907.000 (301)
THE WAGNER QUARRIES COMPANY AN OHIO CORPORATION, NKA HANSON AGGREGATES MIDWEST, INC. A KENTUCKY CORPORATION 32-04906.000 (181)
32-04588.000
32-04906.003
WAGNER QUARRIES SUBDIVISION #1A PLAT VOL. 26, PG. 44
NORTH LINE OF WAGNER QUARRIES SUBDIVISON NO. 1S (PV 26, PG. 43)
℄ SURVEY & CONST. US 250 (MILAN RD.)
LOT 42 LOT 43
LOT 18
LOT 17
LOT 16
LOT 32 LOT 33
MATCH LINE: STA. 124+00 (SEE SHEET 116)
MATCH LINE: STA. 129+00 (SEE SHEET 120)
SEE DETAIL ON SHEET 116

CROSS REFERENCE

Sub-Set Sheet No.	Description
5-9	Lease and Easement Summary
9-11, 23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 186; REVISED R/W TAKES, NEW T-2
KCD	10/23/13	PAR. 179, CORRECT AUD. NUMBERS

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 9, 33, & 43

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 129+00 TO STA. 134+00

ERI-250-0.00

119 / 178
618 / 677

CROSS REFERENCE

Sub-Set Sheet No.	Description
5, 8-10	Lease and Easement Summary
9, 11, 23	Summary of Additional R/W

HALLAM TRACT 43
HALLAM TRACT 9
HALLAM TRACT 33

#4216 CRACKER BARREL

SANDUSKY MALL OUTPARCELS LLC
31-03119.001 (186)

SANDUSKY MALL OUTPARCELS LLC
32-03119.002 (186)

SANDUSKY MALL COMPANY
A LIMITED PARTNERSHIP
32-03119.000 (187)

SANDUSKY DEVELOPMENT CO
A LIMITED PARTNERSHIP
32-04780.000 (188)

SANDUSKY MALL DRIVE SOUTH

PERKINS LAND INVESTMENTS LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04906.003 (179)

PERKINS LAND INVESTMENTS LTD
AN OHIO LIMITED LIABILITY COMPANY
32-04906.001 (179)

MONROEMUFFLER BRAKE INC
32-04906.002 (302)

MATHEWSON BRAD & JILL
32-04885.000 (303)

HOTY MALL PROPERTIES, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-00553.000 (190)

#4215 MR. TIRE
#4307 CARWASH
#4217 GOODYEAR
#4218 FIVE GUYS

LOT 15
LOT 14
LOT 16

WAGNER QUARRIES SUBDIVISION #1A
PLAT VOL. 26, PG. 44

(SEE SHEET 117) MATCH LINE: STA. 129+00
(SEE SHEET 121) MATCH LINE: STA. 134+00

S 37° 01' 48" E

℄ SURVEY & CONST. US 250 (MILAN RD.)

SOUTH LINE - LOT 14 - WAGNER QUARRIES SUBDIVISION #1A

CONST. LIMITS
DO NOT DISTURB
DO NOT DISTURB ISLAND
6" STEEL POST
4" STEEL POST
GAS POST
SANDUSKY MALL SIGN ELEC. METER U.G.
CAR WASH U.G.
VACUUMS
FIVE GUYS SIGN
FOR SALE
EXIT ONLY
ROCKS (TYP.)
bushes
+37' Com. Drive, Reconstruct
121'
100'
110'

186-T2 186-WD 187-T 187-WD 188-T1 188-T2 188-WD 190-WD 190-T1 179-WD 179-T2

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 186; REVISED R/W TAKES, NEW T-2
KCD	10/23/13	PAR. 179, CORRECT AUD. NUMBERS
DATE COMPLETED 9/12/13		

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 9, 33, & 43

HALLAM TRACT LOT 43
HALLAM TRACT LOT 9
SANDUSKY MALL DRIVE SOUTH
LOT 43 LOT 9
S52°41'12"W
Ex U
Ex SW
Ex SH
R/W
TMP
PL
I.P.S.
I.P.F.
MS x3

186P,187V,184AA
186L1
186L2
184X,187Q
188K
184Z,186K,187T
180E,182I,183F,184P,185D,186G,187J
186P,187V,184AA

186 SANDUSKY MALL OUTPARCELS LLC 31-03119.001
186 SANDUSKY MALL OUTPARCELS LLC 32-03119.002
187 SANDUSKY MALL COMPANY A LIMITED PARTNERSHIP 32-03119.000
188 SANDUSKY DEVELOPMENT CO A LIMITED PARTNERSHIP 32-04780.000
179 PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY 32-04906.003
179 PERKINS LAND INVESTMENTS LTD AN OHIO LIMITED LIABILITY COMPANY 32-04906.001
302 MONROEMUFFLER BRAKE INC 32-04906.002
303 MATHEWSON BRAD & JILL 32-04885.000
190 HOTY MALL PROPERTIES, LTD AN OHIO LIMITED LIABILITY COMPANY 32-00553.000

186-T2 | 186-WD | 187-T | 187-WD | 188-T1 | 188-T2 | 188B | 188A | 188C | 188-WD | 190-WD | 179-T2 | 179-WD | 190-T1

(SEE SHEET 118) MATCH LINE: STA. 129+00
MATCH LINE: STA. 134+00 (SEE SHEET 122)

S37°01'48"E 417.00' 208.44' 208.49' 208.56' 208.51' 417.00'
+11.44 55.00' LT.
+11.49 45.00' LT.
10.00'
H1307
182D,183D,185A,186A,187D
45.00'
335.33' 585.32' 922.91' 249.99'
130 131 132
+11.71
EP 0250014
℄ SURVEY & CONST. US 250 (MILAN RD.)

RP18602 +20.00 55.00' LT.
N52°58'12"E 10.00'
RP18603 +20.00 45.00' LT.
+61.19 103.00' LT.
25.00'
RP18604 +61.32 78.00' LT.
S66°08'02"E 47.29'
33.00'
41.48'
+61.48 45.00' LT.
H1308
64.00'
+25.48 45.00' LT.
54.52'
RP18802 +80.00 55.00' LT.
N52°58'12"E 10.00'
RP18803 +80.00 45.00' LT.
28.45'
64.00' S37°01'48"E
+25.19 103.00' LT.
S25°50'40"W 28.09'
64.00' N37°01'48"W
12.68'
RP18701 +25.32 78.00' LT.
+38.00 78.00' LT.
RP18801
S37°01'48"E 28.40'
47.89'
S08°17'23"E
44.66'
78.00'
5,749.14' FROM PI STA. 190+10.84
+83.26
+61.70
5,685.14' FROM PI STA. 190+10.84
82.97'
320.80'
+25.70

RP17910 +25.00 45.00' RT.
46.87'
+71.87 45.00' RT.
RP17901
S37°01'48"E 225.00'
N52°58'12"E 20.00'
RP17909 +25.00 65.00' RT.
N37°01'48"W 225.00'
N37°01'48"W 250.00'
N35°40'28"W 153.17'
N35°52'08"W 150.03'
+50.00 50.00' RT.
S52°58'12"W 25.00'
+50.00 75.00' RT.
+00.00 53.04' RT.
N52°58'12"E 36.96'
+00.00 90.00' RT.
PP18104
190E
N37°01'48"W 83.08'
+83.08 90.00' RT.
RP19002 +55.00 60.00' RT.
N37°01'48"W 116.92'
+00.00 90.00' RT.
+25.00 48.62' RT.
RP17918
50.00'
60.00'
RP17919 +25.00 60.00' RT.
58.17'
10.00'
58.14'
RP17916 +83.14 60.00' RT.
+83.16 50.00' RT.
+55.00 53.01' RT.
RP19001
+00.00 54.89' RT.
167.01'
N34°31'52"W 46.04'
S52°58'12"W 6.99'
S52°58'12"W 35.11'
30.00'
1901,190H,191H
71.86'
N37°01'48"W

LOT 16
LOT 15
LOT 14
WAGNER QUARRIES SUBDIVISION #1A PLAT VOL. 26, PG. 44
HALLAM TRACT LOT 33
SOUTH LINE, LOT 14, WAGNER QUARRIES SUBDIVISION #1A S53°05'12"W

CROSS REFERENCE

Sub-Set Sheet No.	Description
5, 8-10	Lease and Easement Summary
9, 11, 23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 186; REVISED R/W TAKES, NEW T-2
KCD	10/23/13	PAR. 179, CORRECT AUD. NUMBERS

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 129+00 TO STA. 134+00
ERI-250-0.00

120 / 178
619 / 677

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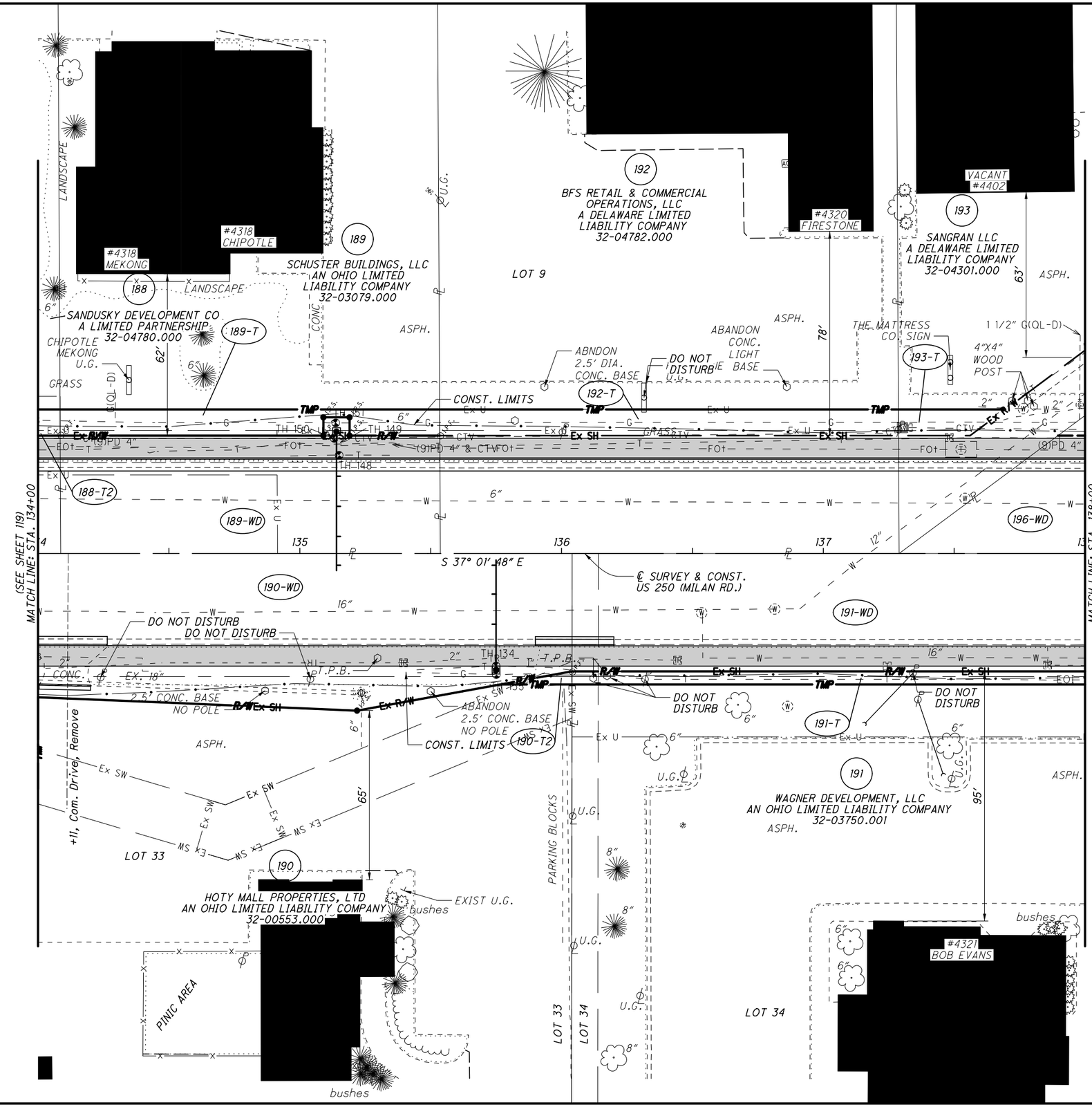
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 9, 33, & 34



CROSS REFERENCE	
Sub-Set Sheet No.	Description
10, 11	Lease and Easement Summary
11, 12	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 189; REVISED T & ADDED WD

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 134+00 TO STA. 138+00

ERI-250-0.00

121 / 178

620 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 9, 33, & 34

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 134+00 TO STA. 138+00

ERI-250-0.00

122 / 178

621 / 677

S52°41'12"W

188
SANDUSKY DEVELOPMENT CO
A LIMITED PARTNERSHIP
32-04780.000

189
SCHUSTER BUILDINGS, LLC
AN OHIO LIMITED
LIABILITY COMPANY
32-03079.000

192
BFS RETAIL & COMMERCIAL
OPERATIONS, LLC
A DELAWARE LIMITED
LIABILITY COMPANY
32-04782.000

193
SANGRAN LLC
A DELAWARE LIMITED
LIABILITY COMPANY
32-04301.000

LOT 9

(SEE SHEET 120)
MATCH LINE: STA. 134+00

H1313
0.15' S,
0.29' E

188-WD
188-T2
189-T
189-WD
190-WD
190-T2
191-WD
191-T
192-T
193-T
196-WD

189B,193C
188C
188F,189A,193A
192A,193B
192C
192B,193D
190C
190B
190I,191H
190I,190H,191H
179N
191J,191K

PP19202 0.15' E, 0.29' S
PP19102 0.21' S, 0.25' W
RP18902
RP18903
RP18904
RP18905
RE19003

Ex U
Ex SH
Ex SW
TMP
R/W
Ex R/W
BL R/W
L.P.S.
M.S.

S37°01'48"E 10.00'
+09.00 52.00' LT.
+19.00 52.00' LT.
N52°58'12"E 7.00'
S52°58'12"W 7.00'
145.00'
100.55'
34.45'
+53.40 55.00' LT.
+10.00'
+08.45 45.00' LT.
28.45'
S37°01'48"E 145.00'
+09.00 45.00' LT.
+19.00 45.00' LT.
+53.45 45.00' LT.
S37°01'48"E 175.31'
175.31'
+28.71 55.00' LT.
+28.76 45.00' LT.
+69.55 55.00' LT.
40.84'
16.78'
27.31'
+56.07 45.00' LT.
S73°36'08"E 83.60'
41.96'
+89.63 45.00' LT.
S37°01'48"E 204.50'
S73°36'08"E 75.52'
277.57'
+28.98
45.00'
5,602.17' TO PI STA. 190+10.84
+08.67
82.97'
145.00'
S37°01'48"E
320.80'
135
136
137
+53.67
+04.06
287.12'
2,551.74' TO ℄ STRUB RD.
℄ SURVEY & CONST. US 250 (MILAN RD.)

(SEE SHEET 124)
MATCH LINE: STA. 138+00

S47°22'42"E 27.69'
+76.78 50.00' RT.
+04.01 45.00' RT.
5.00'
N37°01'48"W 242.86'
+04.00 50.00' RT.
N37°01'48"W 232.86'
+00.00 54.89' RT.
N34°37'52"W 121.97'
167.01'
N47°22'42"W 83.50'
27.23'
S52°58'12"W 35.11'
+21.86 50.00' RT.
+00.00 90.00' RT.
S53°02'12"W

LOT 33
LOT 34

188
HOTY MALL PROPERTIES, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-00553.000

191
WAGNER DEVELOPMENT, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-03750.001

CROSS REFERENCE	
Sub-Set Sheet No.	Description
10, 11	Lease and Easement Summary
11, 12	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 189; REVISED T & ADDED WD

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 9 & 34

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 138+00 TO STA. 143+00

ERI-250-0.00

194
SANDUSKY DEVELOPMENT CO, A LIMITED PARTNERSHIP 32-04299.000
(SEE SHEET 125) MATCH LINE: STA. 144+00
GRASS
Ex R/W
K&K HOME FURNISHING U.G.
RUBY TUESDAY U.G.
193
SAGRAN LLC 32-04301.000
EXPRESS OIL CHANGE
HULL ROAD (R/W VARIES)
ABANDONED 16.5' WIDE RAILROAD R/W
bushes
HANDICAP PARKING
196
ERIE COMMUNITY FED. CREDIT UNION 32-01885.000
#4416 ERIE COMMUNITY FED. CREDIT UNION
ELEC. BOX U.G.
VACANT #4418
198
SHARON LYNN MICHAEL & ANITA JOANNE CANTELLI 32-00421.000
#4424 WELCOME CENTER
200
JEWELONE DEVELOPMENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-01267.000
LOT 9
87'
67'
+88, Com. Drive, Remove
+27.5, Com. Drive, Reconstruct
GRASS
2" STEEL POST
ASPH.
CONST. LIMITS
EXIT
ENTER
CONC.
(3) STEEL POSTS
196-WDV
196-ER
196-WD
198-WD
200-WD
198-T
200-T
191-WD
191-T
181-WD2
181-T2
181-T3
PC Sta. 0+91.84
PI Sta. 1+36.26
105'-15"B/C @ 1.0%
112"B @ 1.0%
32-01886.000
10'-12"B @ 1.0%
(10)PD 4"(QL-D)
(9)PD 4" & CTV
(8)PD 4 Ex U
(3)PD 4"
2" W(QL-D)(AATUR)
6"(AATUR)
TH 38
TH 31
TH 133
TH 152
TH 34
TH 36
TH 32
Ex SH
Ex U
Ex R/W
R/W
TMP
EX. 15"
EX. 21"
EX. 12"
N 72° 51' 15" W
S 37° 01' 48" E
N 51° 35' 10" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
(SEE SHEET 121) MATCH LINE: STA. 138+00
MATCH LINE: STA. 143+00 (SEE SHEET 127)
CP14
SIGNAL POLE
SIGN POST
ABANDON
STORM MH
6'-21"C
LANDSCAPE STONE
DO NOT DISTURB
EXCAVATE AND SALVAGE EXISTING STONE WITHIN CONST. LIMITS. CONSTRUCT PROP. CB-2-3, CONTROLLER CABINET AND BACKFILL WITH SALVAGE STONE. DO NOT DISTURB EXISTING LANDSCAPING
SPLIT RAIL FENCE
WAGNER QUARRY PORTABLE SIGN
REMOVE 42 FEET OF SPLIT RAIL FENCE
2'X4' CONC. PAD
BOB EVANS SIGN
191
WAGNER DEVELOPMENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03750.001
181
THE WAGNER QUARRIES COMPANY AN OHIO CORPORATION, NKA HANSON AGGREGATES MIDWEST, INC. A KENTUCKY CORPORATION 32-03750.000
WAGNER QUARRY
U.C.
LOT 34
WOODS
ROCK (TYP.)
HULL RD. EXTENDED
POT Sta. 10+00.00
PC Sta. 10+60.00
UNK.
EOI

CROSS REFERENCE

Sub-Set Sheet No.	Description
6, 7, 10, 11	Lease and Easement Summary
10-13	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 196; REVISED 196-T TO 196-ER
JJ	8/11/14	REVISED DRIVE AT 4418 MILAN TO 24' WIDE
JJ	10/31/13	PAR 191; DISPOSITION OF STONE DRAINAGE

DATE COMPLETED 9/12/13

123/178
622/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 9 & 34

194
SANDUSKY DEVELOPMENT CO, A LIMITED PARTNERSHIP 32-04299.000

193
SAGRAN LLC 32-04301.000

196
ERIE COMMUNITY FEDERAL CREDIT UNION 32-01885.000

198
SHARON LYNN MICHAEL & ANITA JOANNE CANTELLI 32-00421.000

200
JEWELONE DEVELOPMENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-01267.000

191
WAGNER DEVELOPMENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03750.001

181
THE WAGNER QUARRIES COMPANY AN OHIO CORPORATION, NKA HANSON AGGREGATES MIDWEST, INC. A KENTUCKY CORPORATION 32-03750.000

HULL ROAD (R/W VARIES)
Ex R/W S73°36'08"E 394.51'
S52°41'12"W
N73°36'08"W 124.49'
N86°48'08"W 96.16'
S73°00'09"W 66.21'
S52°57'12"W 171.22'
LOT 9
LOT 34
(SEE SHEET 122) MATCH LINE: STA. 138+00
(SEE SHEET 126) MATCH LINE: STA. 14+00
MATCH LINE: STA. 143+00 (SEE SHEET 128)
HULL RD. EXTENDED
PC Sta. 0+91.84
PC Sta. 10+60.00
POT Sta. 10+00.00
138+92.85, ℄ US250
0+00, ℄ HULL
℄ SURVEY & CONST. US 250 (MILAN RD.)
ERI025015
SV15810
CP14
RP19602 RP19603 RP19604 RP19605 RP19801 RP19502 RP19501 RP19103 RP19104 RP19102 RP19101
PP19104
186N 196B 196C 196D 196E 196A 196-WDV 196-ER 196-T 196-WD 198A 198B 198D 198-T 198-WD 200D 200-T 200-WD 202B 202D 181-WD2 181-T3 181-T2 191-WD 191-T 191J,191K 191I 179G,181G, 191F,205F
N72°57'11"E 316.90'
N52°57'12"E 205.89'
S22°40'03"W 30.28'
S82°38'24"W 46.37'
N18°36'19"W 47.46'
N37°01'48"W 242.86'
N37°01'48"W 232.86'
N52°58'12"E 25.00'
N37°01'48"W 5.11'
N37°01'48"W 60.11'
N37°01'48"W 59.59'
S52°25'41"W
S08°09'26"W 40.41'
S29°58'16"E 56.96'
S34°44'22"E 125.10'
S37°01'48"E 125.00'
S37°01'48"E 125.00'
S37°01'48"E 13.27'
S52°58'12"W 8.00'
S37°01'48"E 72.00'
S37°01'48"E 124.93'
S37°01'48"E 615.15'
N37°01'48"W 623.15'
N69°02'07"W 56.60'
S52°58'12"W 54.98'
4,904.29' TO PI STA. 190+10.84
4,779.29' TO PI STA. 190+10.84
277.57' 287.12' 723.97'
204.50' 100.00' 103.14' 9.43'
83.60' 41.96' 55.03' 59.59'
Ex SH 100.00'
Ex U 45.00'
Ex U 55.00'
Ex U 50.00'
Ex U 45.00'
Ex U 60.00'
Ex U 15.00'
Ex U 75.00'
TMP 4.00' 10.00' 9.00' 5.00'
R/W 12.40'
54.98'
+23.21 94.81' LT.
24.81'
+23.33 70.00' LT.
+06.50 152.05' LT.
+86.67 137.33' LT.
+44.38 152.80' LT.
+63.72 97.05' LT.
+21.52 90.67' LT.
+50.00 62.00' LT.
+06.53 59.00' LT.
+06.53 55.00' LT.
+31.53 59.00' LT.
+45.00 59.00' LT.
+45.00 51.00' LT.
+31.53 50.00' LT.
+94.13 45.00' LT.
+06.53 45.00' LT.
+31.53 45.00' LT.
+06.55
+91.18
+36.86 50.00' RT.
+46.86 45.00' RT.
+96.86 45.00' RT.
+96.86 60.00' RT.
+91.75 60.00' RT.
+46.86 60.00' RT.
+36.86 75.00' RT.
+91.89 75.00' RT.
+00.00 45.00' RT.
+92.00 50.00' RT.
+52.00 75.00' RT.
+52.00 129.98' RT.
+92.41 129.98' RT.
N52°58'12"E 15.00'
S52°58'12"W 15.00'
44.88'
55.03'
103.14'
9.43'
139 140 141 142
12 13 11

CROSS REFERENCE	
Sub-Set Sheet No.	Description
6, 7, 10, 11	Lease and Easement Summary
10-13	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 196; REVISED 196-T TO 196-ER
JJ	10/29/13	PAR.198; OVERALL DIST. ON TWO COURSES
DATE COMPLETED 9/12/13		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 138+00 TO STA. 143+00
ERI-250-0.00

124/178
623/677

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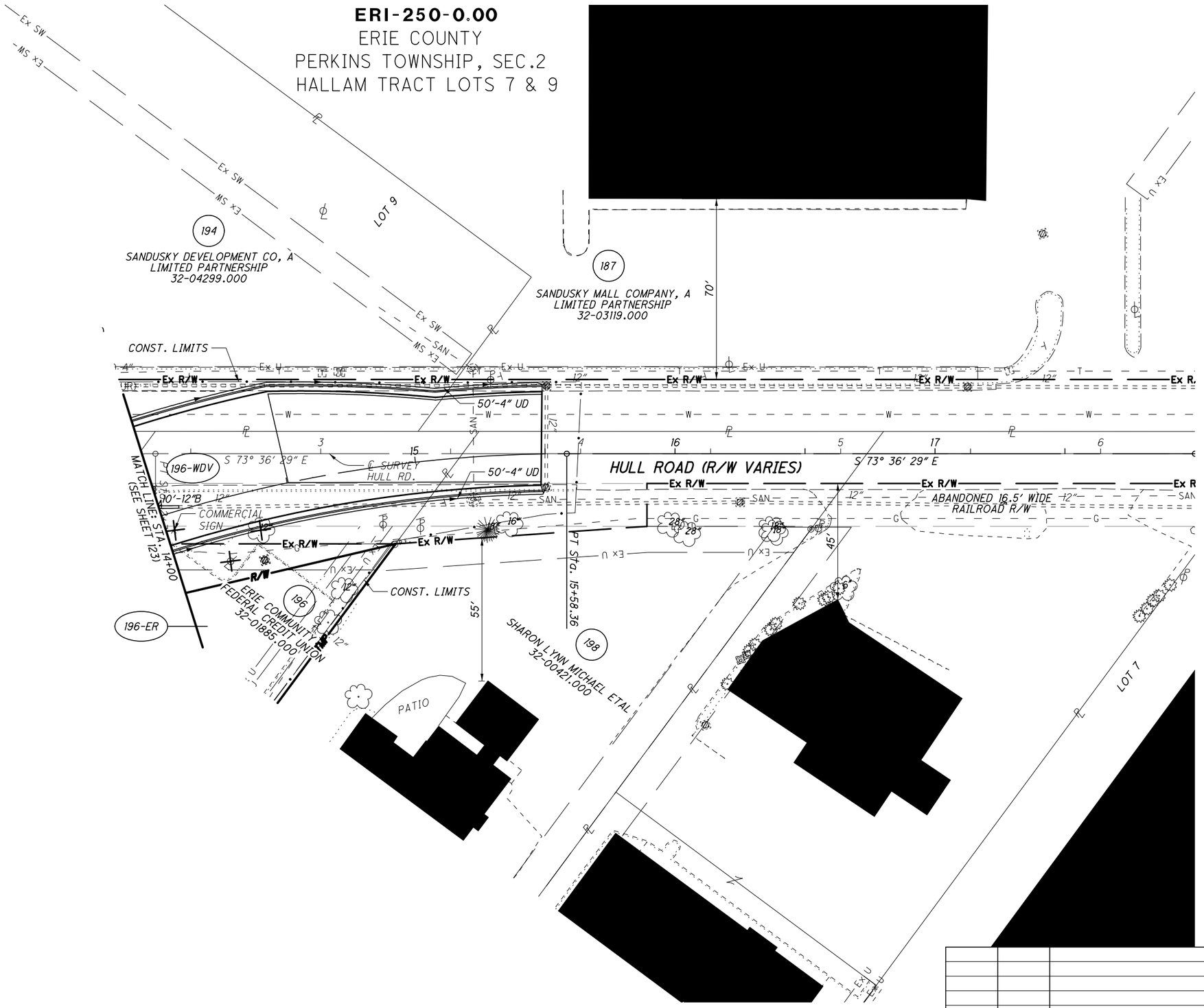
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 7 & 9



CROSS REFERENCE	
Sub-Set Sheet No.	Description
9, 11	Lease and Easement Summary
11, 12	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 196; REVISED 196-T TO 196-ER

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 14+00 TO STA. 18+00

ERI-250-0.00

125/178
624/677

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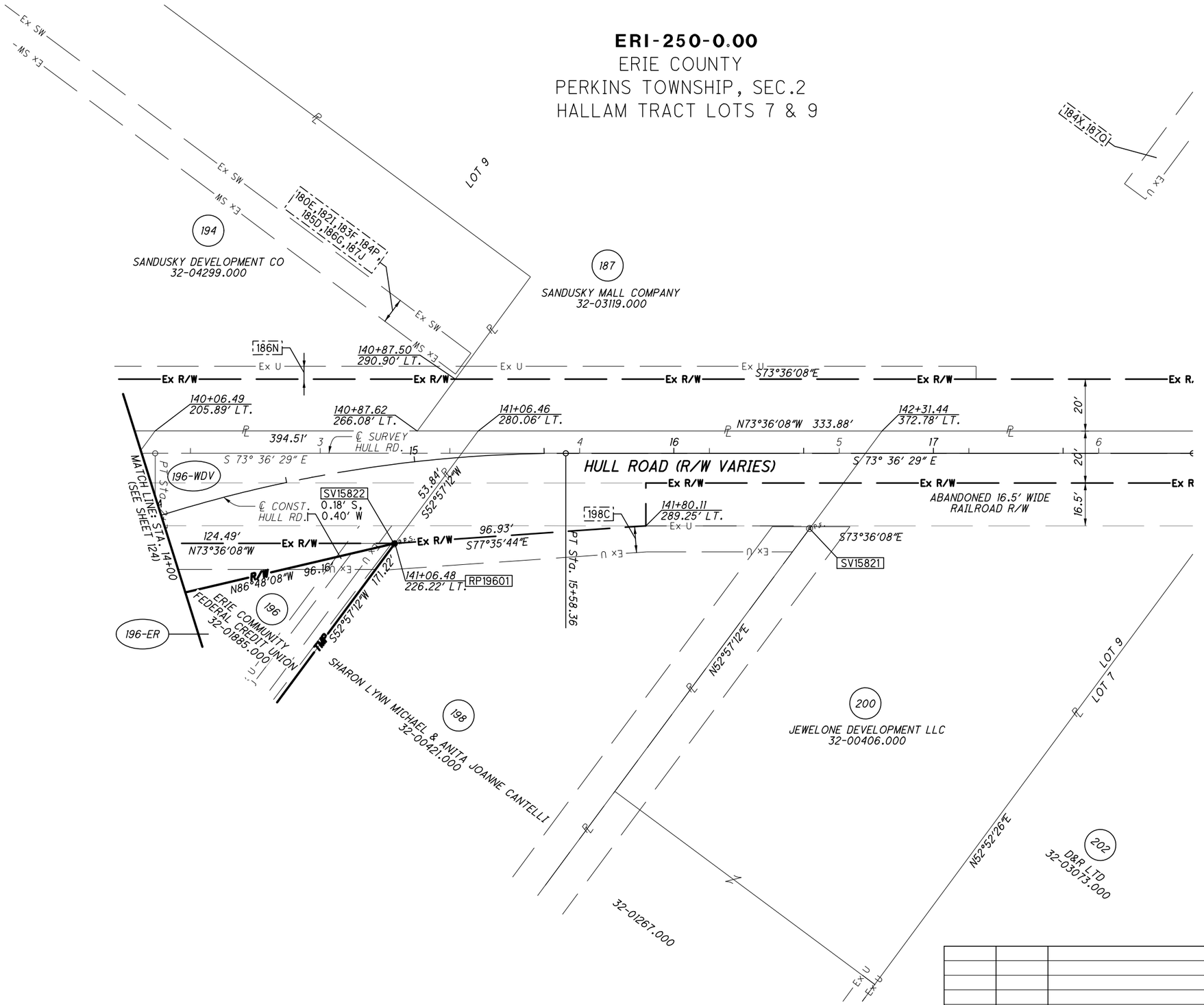
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 7 & 9



CROSS REFERENCE	
Sub-Set Sheet No.	Description
9, 11	Lease and Easement Summary
11, 12	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 196; REVISED 196-T TO 196-ER

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 14+00 TO STA. 18+00

ERI-250-0.00

126 / 178

625 / 677

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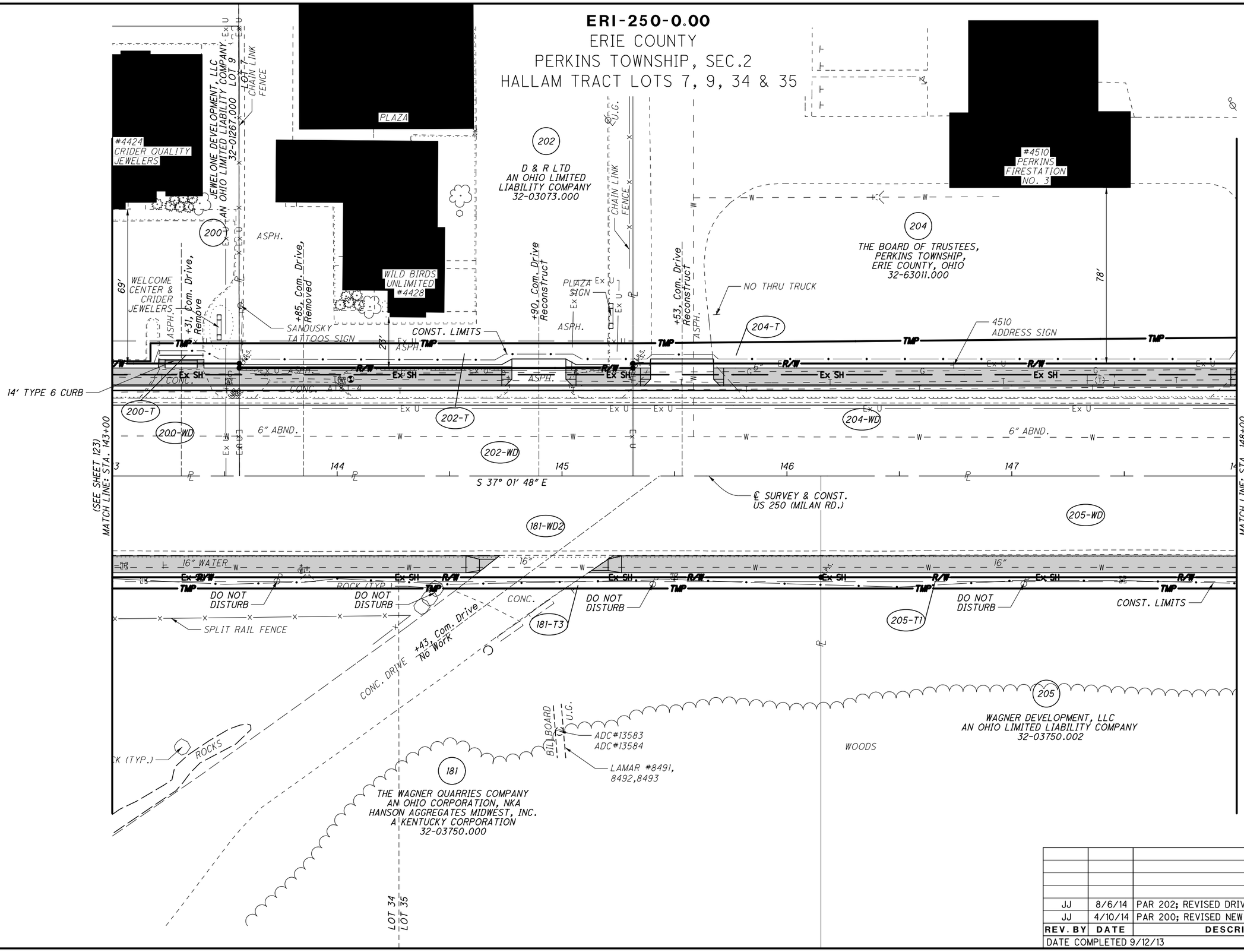
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 7, 9, 34 & 35



CROSS REFERENCE	
Sub-Set Sheet No.	Description
6, 7, 11, 12	Lease and Easement Summary
10, 13	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	8/6/14	PAR 202; REVISED DRIVE LOCATIIONS
JJ	4/10/14	PAR 200; REVISED NEW CURB AT DRIVE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 143+00 TO STA. 148+00

ERI-250-0.00

127/178

626/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 7, 9, 34 & 35

JEWELONE DEVELOPMENT, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-01267.000
LOT 9
LOT 7
S52°52'26"W
200
200C
S37°01'48"E 72.00'
+17.00 59.00' LT.
N52°58'12"E 8.00'
+17.00 51.00' LT.
39.45'
9.00'
2.00'
3.00'
124.93'
124.94'
200-T
200-WD
SV15815
+56.45 59.00' LT.
11.00'
RP20006
+56.46 50.00' LT.
RP20201
+56.46 48.00' LT.
+56.47 45.00' LT.
45.00'
4,654.29' TO PI STA. 190+10.84
+56.55
125.00'
144
175.00'
S37°01'48"E
202
D & R LTD
AN OHIO LIMITED
LIABILITY COMPANY
32-03073.000
S52°57'12"W
202D
S37°01'48"E 175.08'
S37°01'48"E 175.07'
S37°01'48"E 175.06'
202C
202A
202-T
202-WD
202E
SV15816
+31.53 59.00' LT.
RP20403 +31.53 50.00' LT.
RP20202 +31.53 48.00' LT.
SV15817
+31.53 45.00' LT.
4,479.29' TO PI STA. 190+10.84
+31.55
723.97'
145
204
THE BOARD OF TRUSTEES,
PERKINS TOWNSHIP,
ERIE COUNTY, OHIO
32-63011.000
204E
9.00'
11.00'
2.00'
3.00'
204-T
204-WD
N37°01'48"W 320.45'
S37°01'48"E 320.46'
S37°33'59"E 320.44'
204G
204A
206C
+15.15
146
320.54'
147
1877.10'
℄ SURVEY & CONST.
US 250 (MILAN RD.)
205-WD
(SEE SHEET 124)
MATCH LINE: STA. 143+00
MATCH LINE: STA. 148+00
(SEE SHEET 130)
181-WD2
S37°01'48"E 615.15'
N37°01'48"W 623.15'
179G,181G, 191F,205F
181-T3
45.00'
+15.15 45.00' RT.
RE19502
5.00'
+15.15 50.00' RT.
205-T1
S37°01'48"E 879.85'
N37°01'48"W 869.85'
179G,181G, 191F,205F
205
WAGNER DEVELOPMENT, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-03750.002
N52°58'12"E
181
THE WAGNER QUARRIES COMPANY
AN OHIO CORPORATION, NKA
HANSON AGGREGATES MIDWEST, INC.
A KENTUCKY CORPORATION
32-03750.000
LOT 34
LOT 35
Ex U
Ex SH
R/W
TMP
℄

CROSS REFERENCE

Sub-Set Sheet No.	Description
6, 7, 11, 12	Lease and Easement Summary
10, 13	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 143+00 TO STA. 148+00

ERI-250-0.00

128/178
627/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2

THE BOARD OF TRUSTEES, PERKINS TOWNSHIP, ERIE COUNTY, OHIO 32-63011.000

#4600 GREAT WOLF LODGE

GREAT WOLF LODGE

WOLF LODGE DR.

CNL INCOME GW SANDUSKY, LP A DELAWARE LIMITED PARTNERSHIP 32-02753.000

WAGNER DEVELOPMENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03750.002

CBS SIGN (030334) ADC# 20162

LAMAR #850 — LAMAR #851 — ADC# 13581 — ADC# 13582

+12, Com. Drive

+15, Com. Drive

ELEC. METER U.G.

ELEC. PANEL (4510 MILAN)

bushes

CONST. LIMITS

DO NOT DISTURB

6" ABND.

EX. 24"

EX. 18"

N 37° 01' 48" W

℄ SURVEY & CONST. US 250 (MILAN RD.)

TH 132

WOODS

LOT 35
LOT 36

(SEE SHEET 127) MATCH LINE: STA. 148+00

MATCH LINE: STA. 153+00 (SEE SHEET 131)

204 204-T 204-WD 205 205-T 205-WD 206 206-T 206-WD

148 149 150 151 152

CROSS REFERENCE

Sub-Set Sheet No.	Description
11, 12	Lease and Easement Summary
13	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 148+00 TO STA. 153+00

ERI-250-0.00

129/178

628/677

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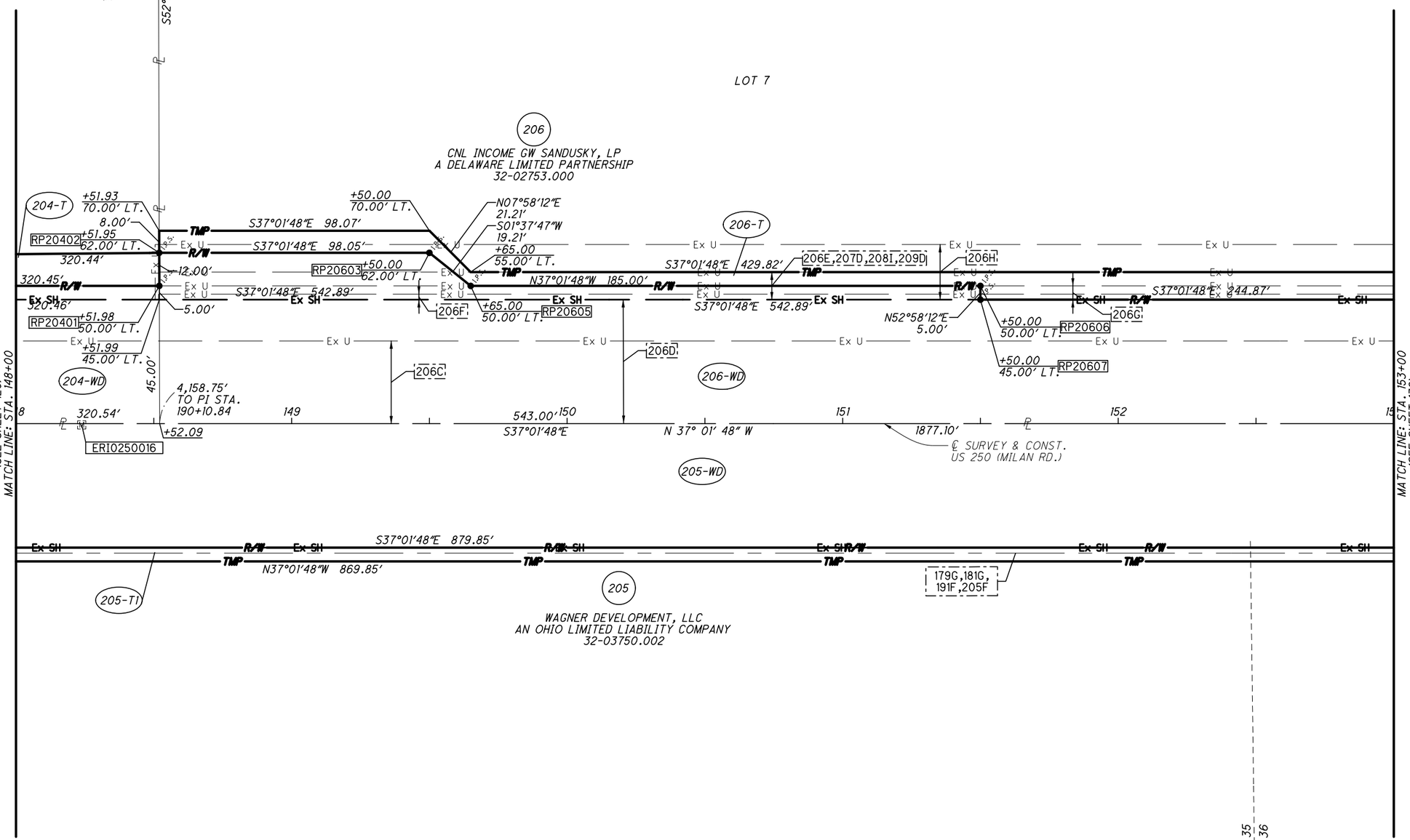
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 7, 35 & 36



CROSS REFERENCE	
Sub-Set Sheet No.	Description
11, 12	Lease and Easement Summary
13	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 148+00 TO STA. 153+00
ERI-250-0.00

130/178
629/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 5, 7, & 36

#4620 STEAK N SHAKE
CONC.
LOT 7
LOT 5
207
HOWARD I GROSS & KATHY J GROSS 32-00844.093
STEAK N SHAKE
MEIJER NORTH DRIVE (PRIVATE)
CANOPY MEIJER'S GAS STATION
CONC. PAD
GAS PUMP
ALARM PED
GAS TANK FILLING AREA
MEIJER'S GAS
208
MEIJER STORES LIMITED PARTNERSHIP A MICHIGAN LIMITED PARTNERSHIP 32-00844.089
206
CNL INCOME GW SANDUSKY, LP A DELAWARE LIMITED PARTNERSHIP 32-02753.000
PRESSURE VACUUM BREAKER
DO NOT DISTURB
ASPH.
TRAFFIC SIGNAL BOXES
GRASS
206-T
207-T
207-WD
208-TI
CONST. LIMITS
GAS POST
206-WD
208-WD1
6" (AATUR)
(SEE SHEET 129) MATCH LINE: STA. 153+00
(SEE SHEET 133) MATCH LINE: STA. 158+00
154
155
156
157
N 37° 01' 48" W
℄ SURVEY & CONST. US 250 (MILAN RD.)
205-WD
CP15
16" WATER MAIN
205-TI
+74.50 Drive Removed
LOT 36
205
WAGNER DEVELOPMENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03750.002
BRUSH

CROSS REFERENCE	
Sub-Set Sheet No.	Description
11-13	Lease and Easement Summary
13, 14	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
DATE COMPLETED 9/12/13		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 153+00 TO STA. 158+00

ERI-250-0.00

131 / 178

630 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 5, 7, & 36

LOT 7
LOT 5
206J,208O
Ex U
MEIJER NORTH DRIVE
(PRIVATE)
S52°40'37"W
207
HOWARD I GROSS
& KATHY J GROSS
32-00844.093
207L1
208
MEIJER STORES LIMITED PARTNERSHIP
A MICHIGAN LIMITED PARTNERSHIP
32-00844.089
206
CNL INCOME GW SANDUSKY, LP
A DELAWARE LIMITED PARTNERSHIP
32-02753.000
S52°41'25"W
℄
208P
RP20704 +31.44 77.00' LT.
S37°01'48"E 36.44'
RP20703 +95.00 77.00' LT.
N52°58'12"E 32.00'
PP20704
12.60'
RP20801 +25.00 77.00' LT.
S37°01'48"E 93.56'
S0.52° R/W
206-T
207-T
207-WD
+94.82 55.00' LT.
100.18'
+95.00 55.00' LT.
+31.51 64.40' LT.
S09°05'35"W 37.46'
+46.15 55.00' LT.
208S
208-T1
S37°01'48"E 429.82'
10.00'
+94.87 45.00' LT.
PP20702
S82°18'53"E 27.30'
S37°01'48"E 229.85'
S37°01'48"E 225.04'
S37°01'48"E 244.87'
Ex SH
94.13'
+89.00 45.00' LT.
17.30'
+12.30 45.00' LT.
519.99'
RP20802 +50.96 50.00' LT.
6.94'
+94.88
PP20604 44.55' LT. (0.27'S & 0.36'W)
206C
207E,208J,209E
6.00'
+95.00 45.00' LT.
RP20702
207C,208D,209C,210B
206E,207D,208I,209D
207E,208J,209E
208H
208G
207B,208C,209B,210A
206-WD
208-WD1
45.00'
3,615.75' TO PI STA. 190+10.84
N52°40'37"E
3,521.61' TO PI STA. 190+10.84
543.00' S37°01'48"E
+95.09
+89.23
N 37° 01' 48" W 1877.10'
543.06'
ERI0250017
CP15
205-WD
RP20509 +95.00 45.00' RT.
RP20508 +95.00 52.00' RT.
S52°58'12"W 7.00'
149.00'
+44.00 45.00' RT.
RP20506
N52°58'12"E 7.00'
+44.00 52.00' RT.
RP20507
550.70'
S37°01'48"E 879.85'
S37°01'48"E 149.00'
N37°01'48"W 869.85'
+85.00 50.00' RT.
N52°58'12"E 5.00'
+85.00 55.00' RT.
N37°01'48"W 165.00'
+50.00 50.00' RT.
S52°58'12"W 5.00'
+50.00 55.00' RT.
N37°01'48"W 544.70'
179G,181G, 191F,205F
205-T1
205H
LOT 36
205
WAGNER DEVELOPMENT, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-03750.002

(SEE SHEET 130)
MATCH LINE: STA. 153+00

MATCH LINE: STA. 158+00
(SEE SHEET 134)

CROSS REFERENCE

Sub-Set Sheet No.	Description
11-13	Lease and Easement Summary
13, 14	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 208; REVISED T1 & WD1

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
ERI-250-0.00
STA. 153+00 TO STA. 158+00

132/178
631/677

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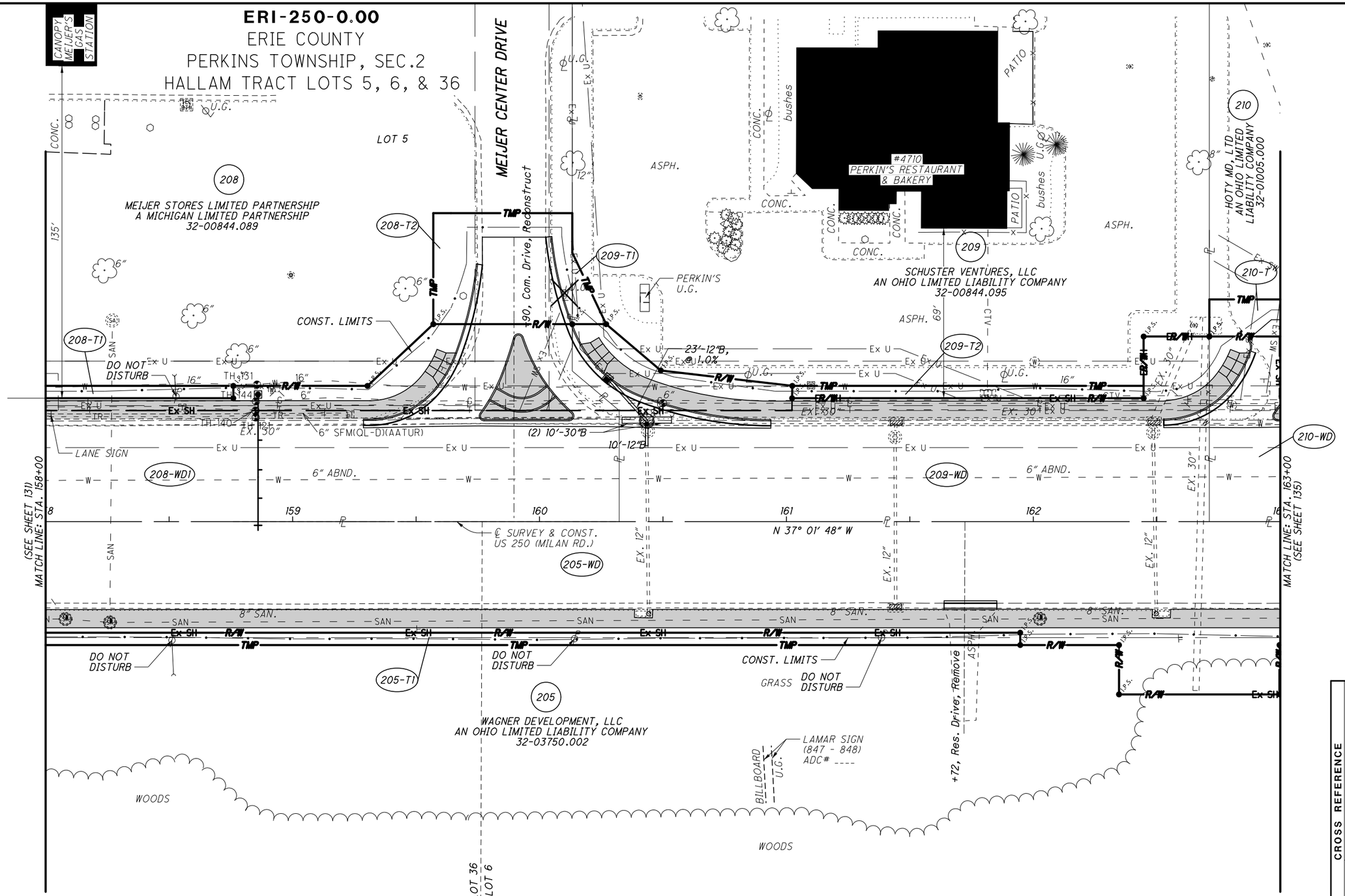
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 5, 6, & 36



CROSS REFERENCE	
Sub-Set Sheet No.	Description
11-13	Lease and Easement Summary
13, 14	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 208; REVISED T1 & WD1
DATE COMPLETED 9/12/13		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 158+00 TO STA. 163+00

ERI-250-0.00

133/178

632/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 5, 6, & 36

MEIJER CENTER DRIVE (PRIVATE)

LOT 5

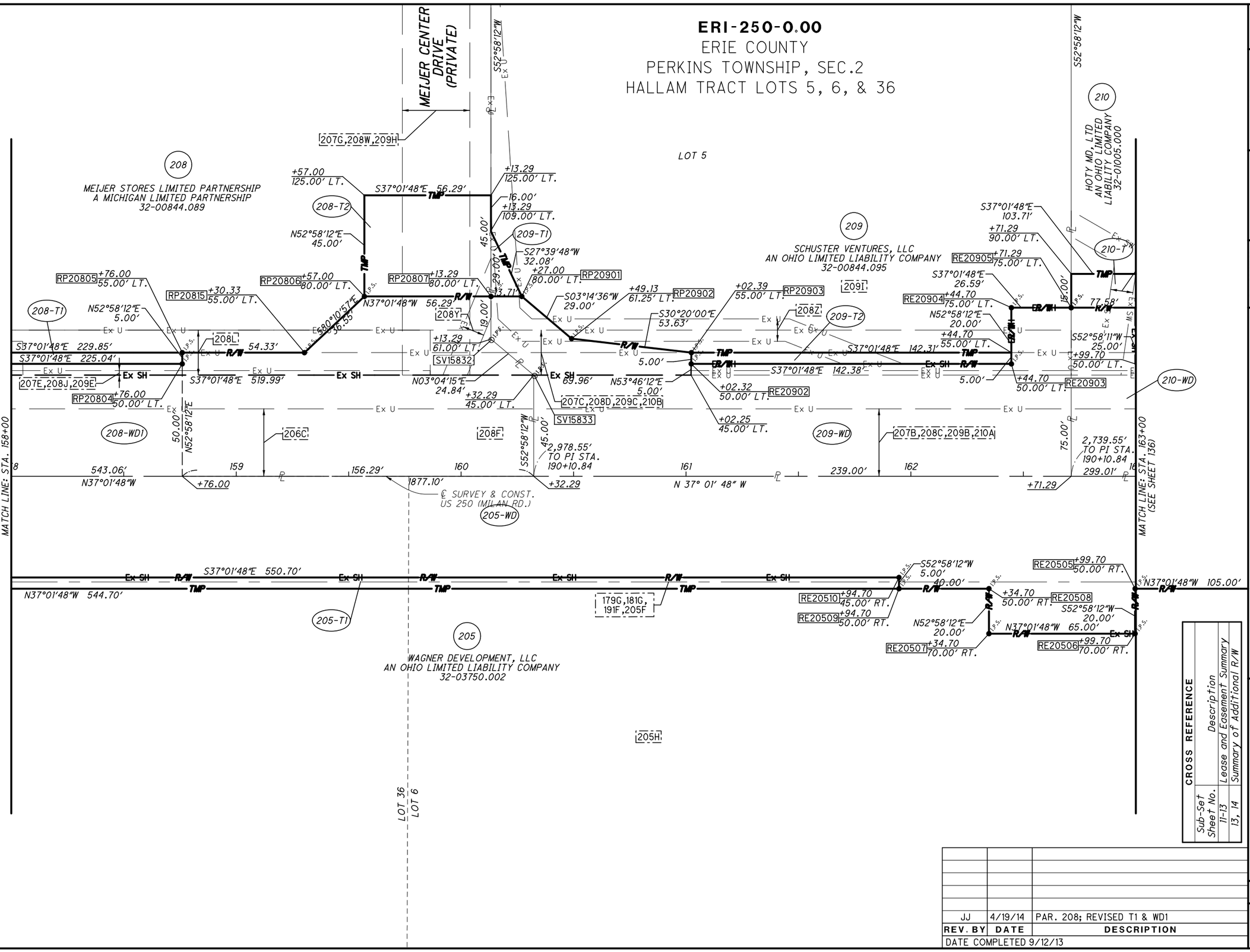
208
MEIJER STORES LIMITED PARTNERSHIP
A MICHIGAN LIMITED PARTNERSHIP
32-00844.089

209
SCHUSTER VENTURES, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-00844.095

210
HOTY MD, LTD
AN OHIO LIMITED
LIABILITY COMPANY
32-01005.000

205
WAGNER DEVELOPMENT, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-03750.002

LOT 36
LOT 6



CROSS REFERENCE	
Sub-Set Sheet No.	Description
11-13	Lease and Easement Summary
13, 14	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 208; REVISED T1 & WD1
DATE COMPLETED 9/12/13		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 158+00 TO STA. 163+00

ERI-250-0.00

134 / 178
633 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 5 & 6

VACANT
INTERSTATE BATTERY
#4816 ENTERPRISE PLAZA
CHECK SMART
VERIZON
#4900 ASPEN DENTAL
LOT 5
LOT 6
MEIJER STORES LIMITED PARTNERSHIP
A MICHIGAN LIMITED PARTNERSHIP
32-00844.089
32-00844.097
208
MEIJER SOUTH DRIVE
MEIJER'S SIGN
DO NOT DISTURB
ASPEN DENTAL SIGN
STONE AI BACK OF CURB
#4912 STARBUCKS
#4912 COLD STONE
ASPH.
CONC.
210
HOTY MD, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-01005.000
210-T
+13, Com. Drive, Reconstruct
ENTERPRISE PLAZA
CONST. LIMITS
DO NOT DISTURB
GAS POST
SIGNAL POLE
208-T3
HOTY ENTERPRISES
212-WD
212-T
REMOVE ROCK
212
4920 MILAN INVESTMENTS LTD
32-04312.000
74'
3" PLASTIC POST
210-WD
208-WD2
6" (AATUR)
C SURVEY & CONST. US 250 (MILAN RD.)
N 37° 01' 48" W
205-WD
211-WD
214-WD
8" WATER
205-T2
DO NOT DISTURB LANDSCAPING AND SIGN
214-T
C12
BRUSH/WOODS
205
WAGNER DEVELOPMENT, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-03750.002
CONST. LIMITS
211-T
SIGN NO NAME
+39, Com. Drive
SIGNAL POLE U.G. (CAMERA)
+85, Com. Drive Removed
+59, Com. Drive Removed
211
MUZILLA PROPERTIES, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-01208.000
#4903 PARTY PLACE
214
PLI, II, LTD., (AKA PLI, II)
AN OHIO LIMITED LIABILITY COMPANY
32-03935.000
FOR SALE
(SEE SHEET 133) MATCH LINE: STA. 163+00
MATCH LINE: STA. 168+00 (SEE SHEET 137)

CROSS REFERENCE

Sub-Set Sheet No.	Description
11-14	Lease and Easement Summary
13-15	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/25/14	PAR. 211 & 214; REVISED WD AND T TAKES
JJ	10/23/13	PARCEL 214; CORRECTED OWNER NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 163+00 TO STA. 168+00

ERI-250-0.00

135 / 178
634 / 677

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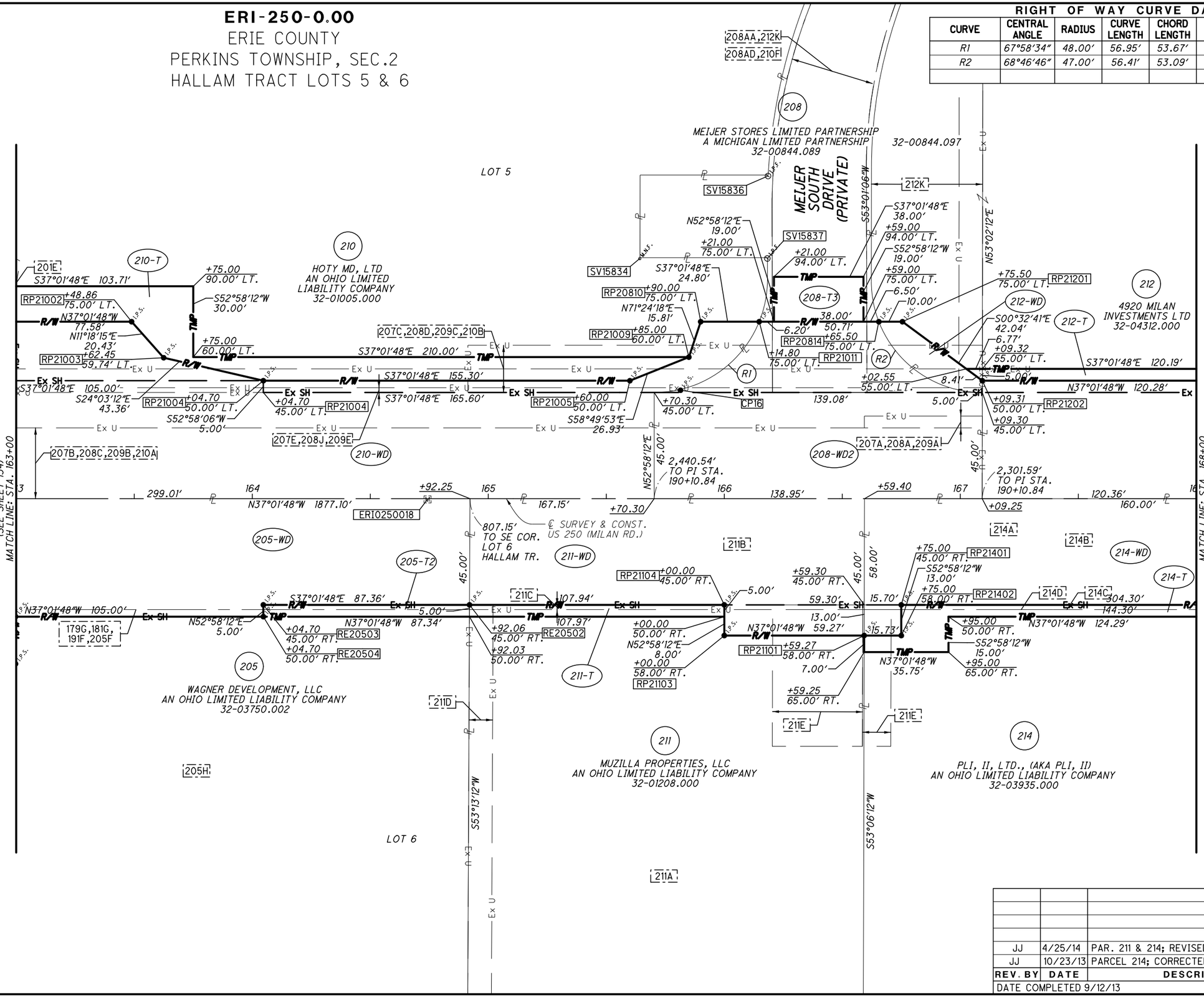
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 5 & 6

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	67°58'34"	48.00'	56.95'	53.67'	N71°01'03"W
R2	68°46'46"	47.00'	56.41'	53.09'	N02°37'08"W



CROSS REFERENCE

Sub-Set Sheet No.	Description
11-14	Lease and Easement Summary
13-15	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/25/14	PAR. 211 & 214; REVISED WD & T TAKES
JJ	10/23/13	PARCEL 214; CORRECTED OWNER NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 163+00 TO STA. 168+00

ERI-250-0.00

136 / 178

635 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 3, 4, 5, & 6

(SEE SHEET 135)
MATCH LINE: STA. 168+00

(SEE SHEET 139)
MATCH LINE: STA. 173+00

212
4920 MILAN INVESTMENTS LTD
32-03494.004

LOT 3

212-T
AMERICAN POWER SPORTS

218
UNITED MOTOR SALES, LLC
32-03494.005

32-04312.000

STARBUCKS COFFEE & COLD STONE

OUTBACK PLAZA

+02, Com. Drive, Reconstruct

DO NOT DISTURB

CONST. LIMITS

TH 143
TH 142
TH 130
TH 48
TH 49

16" DUCT

212-WD
218-WD
214-WD

6" ABND.

EX. 12"
EX. 18"
EX. 8"
EX. 15"

5'-12"B
25'-12" B @ 1.0%
22'-12" B @ 1.0%

169
170
171
172

℄ SURVEY & CONST.
US 250 (MILAN RD.)

N 37° 01' 48" W

214-T
215-T
217-T

+42, Res. Drive, Remove
+03, Com. Drive, No Work
+12, Com. Drive, Reconstruct

SHIRT SHACK
#5003 SHIRT SHACK
#5005 MATTRESS MATTERS

DO NOT DISTURB
BASE TYP.
5-fake palm trees
w/ conc. base

214
PLI, II, LTD., (AKA PLI, II)
AN OHIO LIMITED LIABILITY COMPANY
32-00785.000

215
PELZ PROPERTIES, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-01878.000

217
5005 MILAN, LTD
AN OHIO LIMITED LIABILITY COMPANY
32-01642.000

32-03935.000

LOT 6
LOT 4

COMM. SIGN W/ U.G.

FOR SALE

CONC. WALL

STAIRS

82'
73'

CROSS REFERENCE	
Sub-Set Sheet No.	Description
13-15	Lease and Easement Summary
14, 15	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
DATE COMPLETED 9/12/13		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 168+00 TO STA. 173+00

ERI-250-0.00

137 / 178
636 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 3, 4, 5, & 6

LOT 5 / LOT 3
S52°56'02"W
Ex U
32-04312.000
212J,212N,218R
+29.57 55.00' LT.
120.19'
TMP
R/W
SH
120.20'
5.00'
5.00'
H1327
+29.58 50.00' LT. RP21203
+29.58 45.00' LT.
45.00'
(SEE SHEET 136) MATCH LINE: STA. 168+00
S37°01'48"E 305.46'
N37°01'48"W 299.80'
Ex SH
212-WD
212-T
218L,220L
212D,218G,220G,225D, 226E,227F,236G
236I,227H,233E
S37°01'48"E 345.12'
212E,218J,220J, 227K,233H
236J
Ex SW
LOT 3
212M,218Q
212
4920 MILAN INVESTMENTS LTD
32-03494.004
+35.00 137.00' LT.
S37°01'48"E 114.58'
82.00'
N52°58'12"E
+35.00 55.00' LT.
52.02'
S65°45'13"E
+29.38 50.00' LT. RP21204
212H,218O
220
STORAGE ZONE ENTERPRISES, LLC, AN OHIO LIMITED LIABILITY COMPANY 32-03494.012
N14°36'46"E
S52°56'11"W
218
+49.58 137.00' LT.
Ex U/P
62.00'
UNITED MOTOR SALES, LLC 32-03494.005
218P
212-T
STA. 173+00 (SEE SHEET 140)
+75.00 75.00' LT. RP21205
+49.61 75.00' LT. RP21206
74.61'
53.99'
+89.70 75.00' LT.
S37°01'48"E
Ex SH
25.00'
N52°58'12"E 25.00'
40.07'
S37°01'48"E 74.93'
+74.70 50.00' LT.
+49.63 50.00' LT.
+89.70 50.00' LT.
N52°58'12"E 5.00'
+74.70 45.00' LT.
218-WD
236H
218C,220C, 225A,226B, 227B,236A
50.00'
5,602.17' TO PI STA. 190+10.84
142.56'
+99.40
173
+49.66
217A
SE COR. LOT 6 & NE COR. LOT 4 OF HALLAM TRACT
245.00'
169
160.00'
+29.61
+19.40
214E
214-WD
170
+79.40
420.05'
N37°01'48"W
320.00' TO SE COR. LOT 6 HALLAM TR.
215B
171
+39.40
160.00'
℄ SURVEY & CONST. US 250 (MILAN RD.)
172
217D
160.00'
+19.30 45.00' RT.
5.00'
214F
N37°01'48"W 304.30'
144.30'
124.29'
+19.29 50.00' RT.
N36°18'50"W 160.01'
214-T
RE21404 +79.30 45.00' RT.
7.00'
+79.28 52.00' RT.
215C
160.00'
N37°01'48"W 160.00'
215D
215-T
+39.30 45.00' RT.
29.00'
+39.28 52.00' RT.
217C
80.06'
217E,217F
+19.35 45.00' RT.
S53°06'12"W 5.00'
+19.34 50.00' RT.
N37°01'48"W 20.66'
S52°58'12"W 31.00'
+40.00 81.00' RT.
217B
70.36'
217G
+40.00 50.00' RT.
+89.70 50.00' RT.
N52°58'12"E 15.00'
+89.70 65.00' RT.
N37°01'48"W 9.56'
RE21702 +99.25 65.00' RT. 15.44'
217-T
N37°01'48"W 100.79'
+39.21 81.00' RT.
65.00'
214
PLI, II, LTD., (AKA PLI, II) AN OHIO LIMITED LIABILITY COMPANY 32-00785.000
215
PELZ PROPERTIES, LLC AN OHIO LIMITED LIABILITY COMPANY 32-01878.000
217
5005 MILAN, LTD AN OHIO LIMITED LIABILITY COMPANY 32-01642.000
LOT 4
LOT 6
215A
32-03935.000
S53°06'12"W
MATCH LINE:

CROSS REFERENCE

Sub-Set Sheet No.	Description
13-15	Lease and Easement Summary
14, 15	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/25/14	PAR. 214; REVISED WD AND T TAKES
DATE COMPLETED 9/12/13		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 168+00 TO STA. 173+00

ERI-250-0.00

138 / 178

637 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 3 & 4

TOY R US NORTH DRIVE
TOY R US SOUTH DRIVE
+21, Com. Drive, Reconstruct
+21, Res. Drive, Reconstruct
+63, Com. Drive, Reconstruct

220
STORAGE ZONE ENTERPRISES, LLC, AN OHIO LIMITED LIABILITY COMPANY 32-03494.012

226
MP PARK PLACE LLC 32-03494.001

221
TOYS "R" US PROPERTY COMPANY II, LLC FNA GIRAFFE PROPERTIES, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-03494.009

LOT 3

223
PAUL E HAMMERSMITH, TRUSTEE OF THE PAUL E HAMMERSMITH DECLARATION OF TRUST DATED 06/17/2008 32-03494.022

218
UNITED MOTOR SALES, LLC, AN OHIO LIMITED LIABILITY COMPANY 32-03494.005

219
DAVID W DEEHR, DALE F DEEHR AND SUSAN L RABBITT 32-00863.000

219
DAVID W DEEHR, DALE F DEEHR AND SUSAN L RABBITT 32-00864.000

LOT 4

402

ADC# 38592 AND 38593

220-T 221-T 226-T1 226-T2 223-T 219-T

220-WD 226-WD 221-WD1 218-WD 226-WD2 219-WD

DO NOT DISTURB

SAVE

STORAGE ZONE U.G.

BRUSH

ASPH.

GUARDRAIL

billboard

12"DEAD

PORTABLE SIGN

REMOVE PATRON PARKING ONLY

CHINA BASKET

MOVABLE SIGN

GRASS

FAZOLI'S U.G.

CONST. LIMITS

6" ABND.

10'-15"B @ 1.0%

EX. 21"

EX. 60"

EX. 12"

8" SAN.

10" SAN.

CONC

VACANT #5019

DITCH

CULTIVATED

FOR SALE SIGN

N 37° 01' 48" W

℄ SURVEY & CONST. US 250 (MILAN RD.)

MATCH LINE: STA. 173+00 (SEE SHEET 137)

MATCH LINE: STA. 178+00 (SEE SHEET 141)

174 175 176 177

CROSS REFERENCE	
Sub-Set Sheet No.	Description
14-16	Lease and Easement Summary
15, 16, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 173+00 TO STA. 178+00
ERI-250-0.00

139/178
638/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 3 & 4

TOY R US NORTH DRIVE (PRIVATE)

TOY R US SOUTH DRIVE (PRIVATE)

MP PARK PLACE LLC 32-03494.001

PAUL E HAMMERSMITH, TRUSTEE OF THE PAUL E HAMMERSMITH DECLARATION OF TRUST DATED 06/17/2008 32-03494.022

STORAGE ZONE ENTERPRISES, LLC, AN OHIO LIMITED LIABILITY COMPANY 32-03494.012

TOYS "R" US PROPERTY COMPANY II, LLC FNA GIRAFFE PROPERTIES, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-03494.009

UNITED MOTOR SALES, LLC, AN OHIO LIMITED LIABILITY COMPANY 32-03494.005

DAVID W DEEHR, DALE F DEEHR AND SUSAN L RABBITT 32-00864.000

DAVID W DEEHR, DALE F DEEHR AND SUSAN L RABBITT 32-00863.000

SE COR. LOT 6 & NE COR. LOT 4 OF HALLAM TRACT

LOT 3

LOT 4

STA. 173+00

MATCH LINE: STA. 178+00 (SEE SHEET 142)

(SEE SHEET 138) MATCH LINE:

1,618.62' TO PI STA. 190+10.84

1,248.81' TO PI STA. 190+10.84

1,224.81' TO PI STA. 190+10.84

© SURVEY & CONST. US 250 (MILAN RD.)

SN53°06'30"W

CROSS REFERENCE

Sub-Set Sheet No.	Description
14-16	Lease and Easement Summary
15, 16, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

PID NO. 88407

R/W DESIGNER JJ

R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 173+00 TO STA. 178+00

ERI-250-0.00

140/178

639/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 3 & 4

#5018 FAZOLI'S RESTAURANT
#5020 PIER 1 IMPORTS
#5200 CHILI'S RESTAURANT
LOT 3
LOT 4
PARK PLACE DRIVE NORTH
PARK PLACE SIGN
CHILI'S SIGN
CROSSINGS RD.
N 37° 01' 48" W
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 53° 02' 33" E
℄ SURVEY & CONST. CROSSINGS RD.

223 PAUL E HAMMERSMITH, TRUSTEE OF THE PAUL E HAMMERSMITH DECLARATION OF TRUST DATED 06/17/2008 32-03494.022

225 FRED VOGEL PROPERTIES I, LLC A CALIFORNIA LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED ONE-HALF INTEREST AND JILL VOGEL PROPERTIES I, LLC A CALIFORNIA LIMITED LIABILITY COMPANY, AS TO AN UNDIVIDED ONE-HALF INTEREST 32-03494.013

226 MP PARK PLACE LLC 32-03494.001

227 SWCAP, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-03494.003

219 DAVID W DEEHR, DALE F DEEHR AND SUSAN L RABBITT 32-00863.000

224 BCC SANDUSKY PERMANENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03439.003

228 BCC SANDUSKY PERMANENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03439.002

DO NOT DISTURB
DO NOT DISTURB LIGHT POLE
DO NOT DISTURB SIGN/LANDSCAPING
DO NOT DISTURB PARKING LOT
LANDSCAPING TO BE REMOVED
CONST. LIMITS
CROSSINGS OF SANDUSKY SIGN
OLIVE GARDEN
SAVE
ADC# 41021 AND 41022
billboard U.G. billboard
DEDICATION PLAT OF CROSSING ROAD PLAT VOL. 44, PG. 100

223-T, 223-WD, 225-T1, 225-WD, 226-T3, 226-WD3, 227-T1, 227-WD, 227-T2, 219-T, 219-WD, 224-T1, 224-WD, 228-T1, 228-WD, 225-T2, 228-T2

7'-12"B @1.0%
65'-12"B @ 0.20%
38'-12"B, 706.02 @ 0.20%
161'-12"B @ 0.40%
36'-12"B @0.20%
10'-18"B

MATCH LINE: STA. 178+00 (SEE SHEET 139)
MATCH LINE: STA. 183+00 (SEE SHEET 145)
MATCH LINE: STA. 48+50 (SEE SHEET 143)

CROSS REFERENCE

Sub-Set Sheet No.	Description
14-17	Lease and Easement Summary
15-17, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME
JJ	10/29/13	PAR. 228; REV. R/W AND PROP. WALK
JJ	10/23/13	PAR 228;DO NOT DISTURB TO LIGHT POLE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 178+00 TO STA. 183+00

ERI-250-0.00

141 / 178

640 / 677

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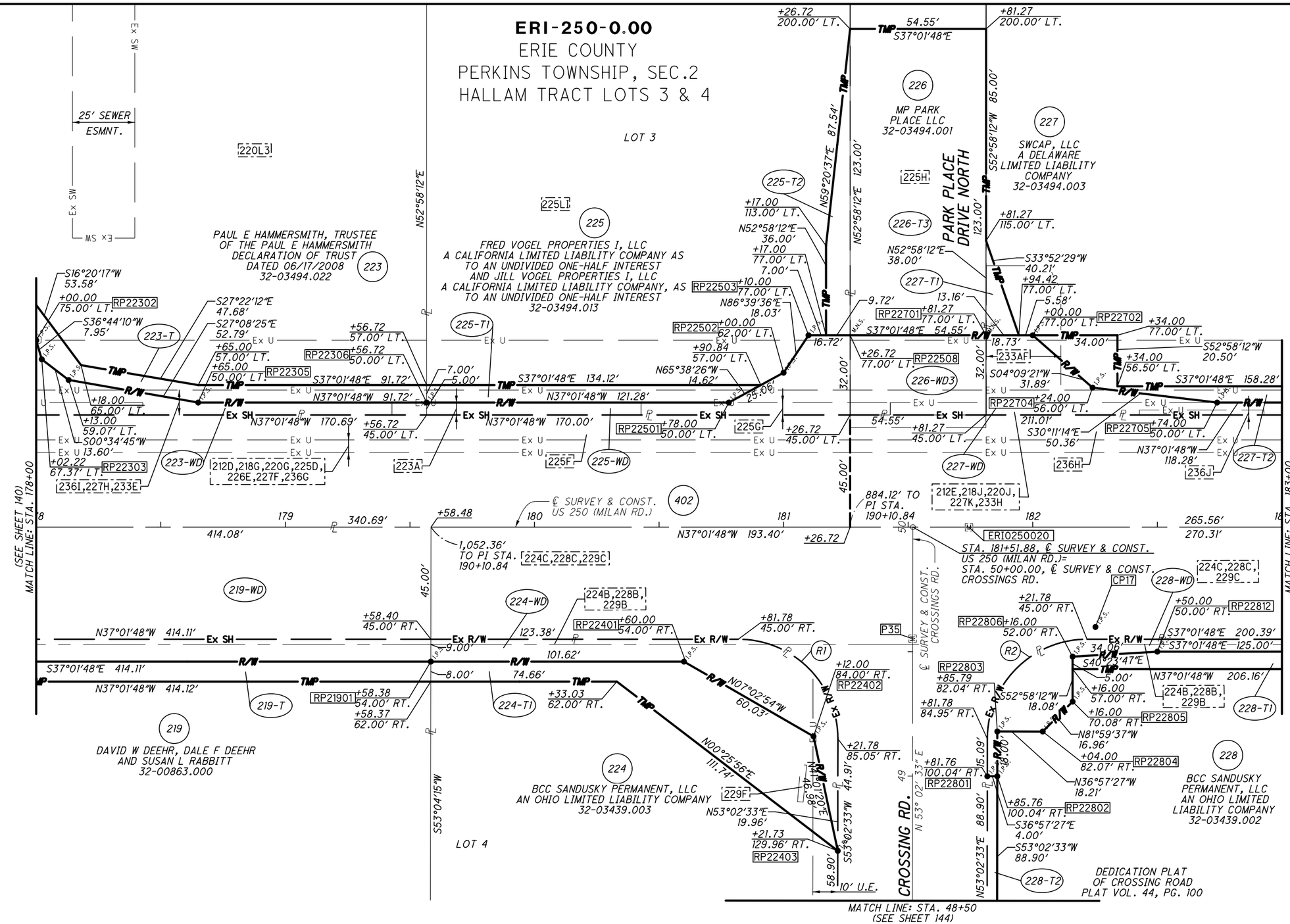
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC.2
HALLAM TRACT LOTS 3 & 4



RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	90°04'21"	40.00'	62.88'	56.60'	S08°00'23"W
R2	89°55'39"	40.00'	62.78'	56.53'	S81°59'37"E

CROSS REFERENCE

Sub-Set Sheet No.	Description
14-17	Lease and Easement Summary
15-17, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME
JJ	10/29/13	PAR. 228; REV. R/W TO AVOID LT. POLES

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 178+00 TO STA. 183+00
ERI-250-0.00

142 / 178
641 / 677

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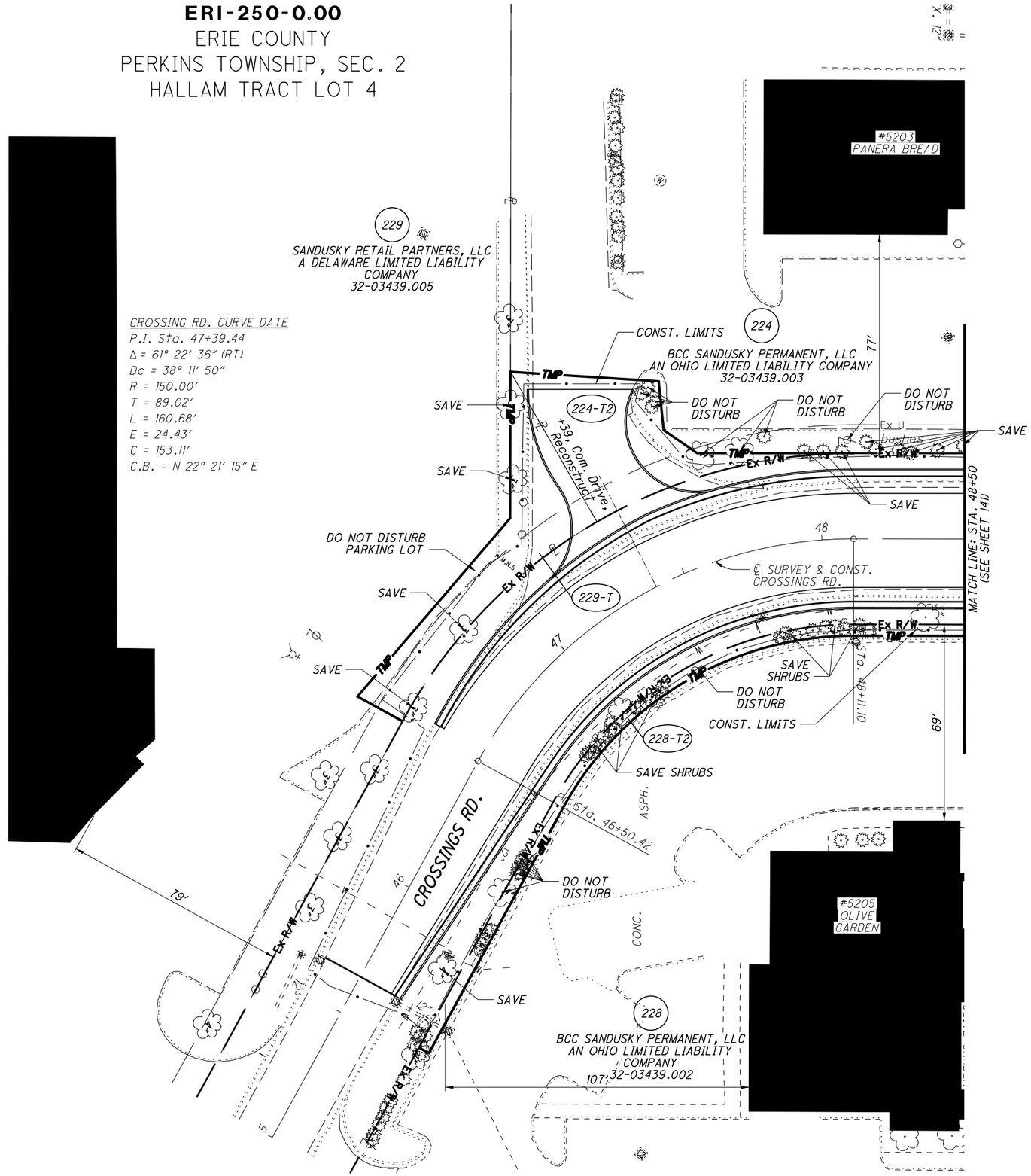
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 4



CROSSING RD. CURVE DATE
P.I. Sta. 47+39.44
Δ = 61° 22′ 36″ (RT)
Dc = 38° 11′ 50″
R = 150.00′
T = 89.02′
L = 160.68′
E = 24.43′
C = 153.11′
C.B. = N 22° 21′ 15″ E

CROSSING RD. CURVE DATA
P.I. Sta. 47+39.35
Δ = 61° 20′ 13″ (RT)
Dc = 38° 11′ 50″
R = 150.00′
T = 88.95′
L = 160.58′
E = 24.39′
C = 153.02′
C.B. = N 22° 20′ 04″ E

CROSS REFERENCE	
Sub-Set Sheet No.	Description
15, 17, 18	Lease and Easement Summary
16, 17	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 45+00 TO STA. 48+50

ERI-250-0.00

143/178
642/677

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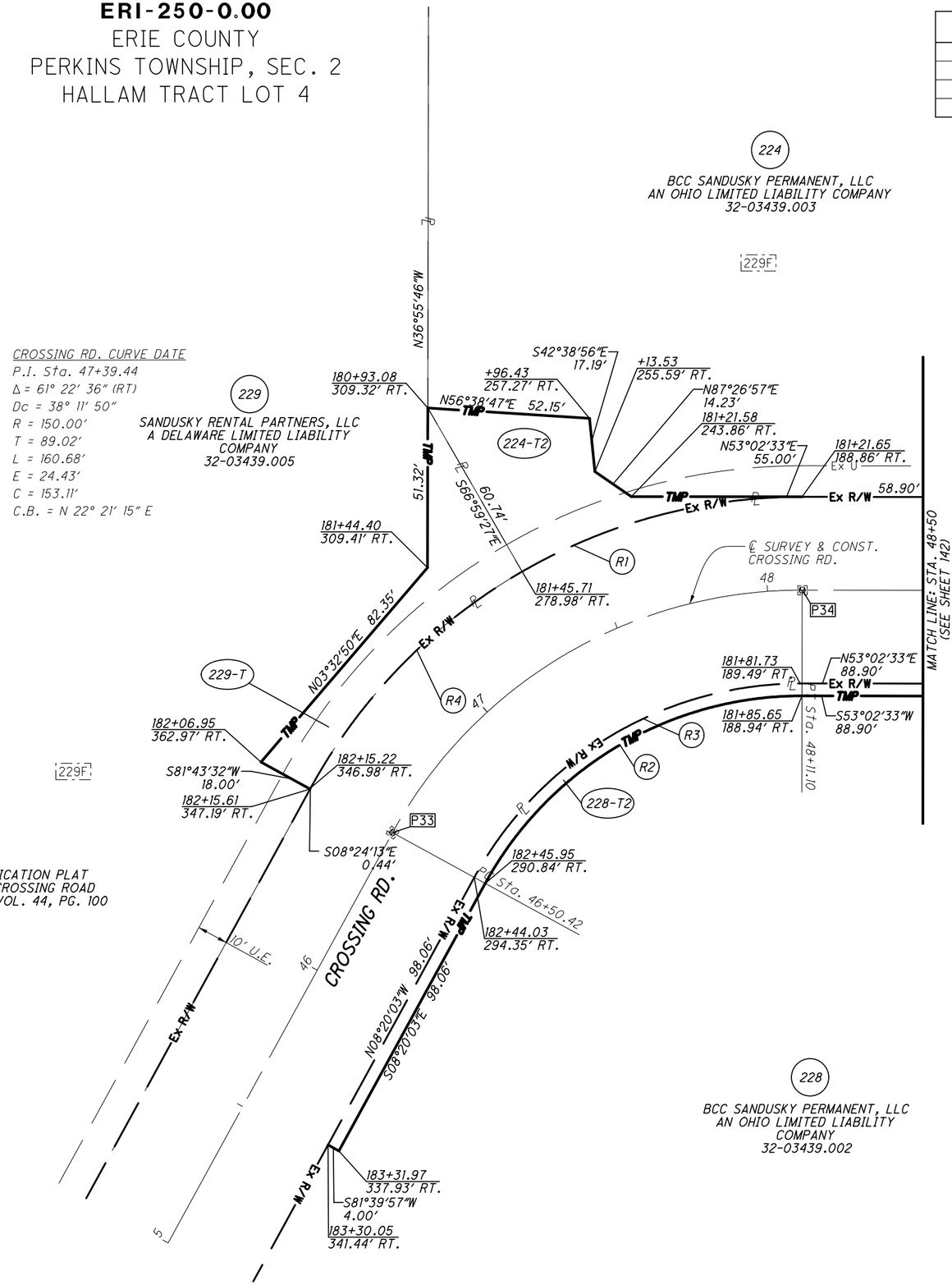
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 4

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	30°02'01"	180.00'	94.35'	93.28'	S38°01'33"W
R2	61°22'36"	116.00'	124.26'	118.41'	S22°21'15"W
R3	61°22'36"	120.00'	128.55'	122.49'	N22°21'15"E
R4	31°20'35"	180.00'	98.47'	97.24'	S07°20'15"W



CROSS REFERENCE	
Sub-Set Sheet No.	Description
15, 17, 18	Lease and Easement Summary
16, 17	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 45+00 TO STA. 48+50

ERI-250-0.00

144 / 178

643 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 2,3,&4

A. PETER & BELLE B. KOB'S SUBDIVISION PLAT VOL. 15, PG. 4
HALLAM TRACT LOT 3
230
KENNETH JAMES MCGILL AND IRENE MCGILL FAMILY TRUST, UNDER TRUST DECLARATION JUNE 1, 1996 32-01744.000
32-01999.000
226
MP PARK PLACE LLC 32-03494.001
236
ERIE SHORE PROPERTIES HOLDINGS, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03494.011
HARLEY DAVIDSON DRIVE
HARLEY DAVIDSON DEALER
LOT 9
227
SWCAP, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-03494.003
PATIO
LOT 6
DENTAL OFFICE #5218
LOT 5
231
ANTHONY ALBERT KOWALSKI, DANIEL LEE KOWALSKI AND DAVID ALLEN KOWALSKI 32-02355.000
LOT 7
LOT 8
RES. #5306
bushes DECK bushes
+64' Com. Drive
+17' Com. Drive, Reconstruct
+82' Res. Drive, Reconstruct
TO BE REMOVED PATRON PARKING ONLY
HARLEY DAVIDSON SIGN
CONST. LIMITS
KENNETH MCGILL DDS
LANDSCAPE
GRASS
STN.
CONC.
227-T2
230-T
231-T
226-T4
236-T1
227-WD
230-WD
231-WD
226-WD4
236-WD
DO NOT DISTURB
6" ABND.
402
403
404
184
185
186
187
N 37° 01' 48" W
(SEE SHEET 141) MATCH LINE: STA. 183+00
(SEE SHEET 147) MATCH LINE: STA. 188+00
℄ SURVEY & CONST. US 250 (MILAN RD.)
DO NOT DISTURB LIGHT POLE
228-WD
232-WD
235-WD
10" SAN.
15" SAN.
6" SFM(QL-D)(AATUR)
(2) 5'-12"B
10'-18"B
EX. 10" SAN.
DO NOT DISTURB
SAVE
C16
228-T1
232-T
235-T
MULCH BED
LONGHORN STEAK HOUSE SIGN
228
232
235
ASPH.
DO NOT DISTURB PARKING LOT
RARE HOSPITALITY INTERNATIONAL, INC., A GEORGIA CORPORATION 32-02284.000
32-02163.000
BCC SANDUSKY PERMANENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03439.002
REALTY INCOME CORPORATION, A MARYLAND CORPORATION 32-02006.001
STONE DETENTION POND
GRASS
RYAN'S SIGN
20' SANITARY EASEMENT O.V. 507, PG. 504
15" SAN.
20'
#5205 OLIVE GARDEN
#5219 LONGHORN STEAKHOUSE
#5309 RYAN'S RESTAURANT
32-03439.006
HALLAM TRACT LOT 4
HALLAM TRACT LOT 2
LOT 4
LOT 2

CROSS REFERENCE	
Sub-Set Sheet No.	Description
16-20	Lease and Easement Summary
16-18, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME
JJ	10/29/13	PAR. 228; REV. R/W AND PROP. WALK
JJ	10/23/13	PAR. 228; DO NOT DISTURB TO LIGHT POLE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

R/W DESIGNER JJ
R/W REVIEWER DAP

PID NO. 88407

RIGHT OF WAY TOPO SHEET
ERI-250-0.00
STA. 183+00 TO STA. 188+00

145/178
644/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 2,3,&4

A. PETER & BELLE B. KOB'S SUBDIVISION PLAT VOL. 15, PG. 4

HALLAM TRACT LOT 3

230
KENNETH JAMES MCGILL AND IRENE MCGILL FAMILY TRUST, UNDER TRUST DECLARATION JUNE 1, 1996 32-01744.000

32-01999.000

226
MP PARK PLACE LLC 32-03494.001

236
ERIE SHORE PROPERTIES HOLDINGS, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03494.011

HARLEY DAVIDSON DRIVE (PRIVATE)

227
SWCAP, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-03494.003

231
ANTHONY ALBERT KOWALSKI, DANIEL LEE KOWALSKI AND DAVID ALLEN KOWALSKI 32-02355.000

LOT 5 | LOT 6 | LOT 7 | LOT 8 | LOT 9

S52°58'12"W

227H,2361,233E | 230E | 231C | 231D | 231-T | 226-T4 | 236-T1 | 236N,245O, 227T-(6)

227-T2 | RP22706 | 230-T | 231F | 231E | RP23103 | RP23601 | 226-WD4 | RP23605

236H | 227-WD | PP22704 | 230C | 230D | PP23101 | 231A | 231B | RP23102 | PP23106 | 236J | RP23603 | 236-WD

212D,218G,220G,225D, 226E,227F,236G | 230-WD | RP23001 | 230A | 231-WD | 212E,218J,220J, 227K,233H

402 | 403 | 404

618.56' TO PI STA. 190+10.84 | 588.65' TO PI STA. 190+10.84 | 518.56' TO PI STA. 190+10.84

265.56' N37°01'48"W 270.31'

SE COR. LOT 4 HALLAM TRACT

℄ SURVEY & CONST. US 250 (MILAN RD.)

388.65' | 318.45'

(SEE SHEET 142) MATCH LINE: STA. 183+00

MATCH LINE: STA. 188+00 (SEE SHEET 148)

224C,228C, 229C | 233B | 232A

228-WD | RP22813 | RP23201 | 232-WD | 235-WD | RP23205

200.39' S37°01'48"E 125.00' | 47.21' S34°36'07"E | 206.16' | S37°01'48"E 100.00' | N37°01'48"W 100.00' | 206.09' | 207.83' | 204.84'

228-T1 | 224B,228B, 229B | 232-T | 232C | 235-T

228
BCC SANDUSKY PERMANENT, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03439.002

232
RARE HOSPITALITY INTERNATIONAL, INC., A GEORGIA CORPORATION 32-02284.000

32-02163.000

235
REALTY INCOME CORPORATION, A MARYLAND CORPORATION 32-02006.001

20' SANITARY EASEMENT D.V. 507, PG. 510

S. LINE LOT 4 HALLAM TRACT

S52°59'36"W

N. LINE LOT 2 HALLAM TRACT

LOT 4 | LOT 2

HALLAM TRACT LOT 4 | HALLAM TRACT LOT 4 | HALLAM TRACT LOT 2

PP23202 | PP23204

32-03439.006

CROSS REFERENCE

Sub-Set Sheet No.	Description
16-20	Lease and Easement Summary
16-18, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 226; REVISED OWNERSHIP NAME
JJ	10/28/13	PAR. 228; REV. R/W TO AVOID LT. POLES

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 183+00 TO STA. 188+00

ERI-250-0.00

146 / 178
645 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 2&3

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 188+00 TO STA. 193+00

ERI-250-0.00

147 / 178
646 / 677

A. PETER & BELLE B. KOB'S SUBDIVISION PLAT VOL. 15, PG. 4
LOT 9
#5316 HARLEY DAVIDSON DEALER
236
ERIE SHORE PROPERTIES HOLDINGS, LLC AN OHIO LIMITED LIABILITY COMPANY 32-03494.011
HALLAM TRACT LOT 3
32-04397.000
ASPH.
#5410 SUPER 8 MOTEL
238
GIOVANNA RUTA, INC 32-04395.000
240
FIRELANDS REGIONAL MEDICAL CENTER AN OHIO NON-PROFIT CORPORATION 32-63010.000
+71, Comm. Drive, Reconstruct
+03, Comm. Drive, Remove
+92, Comm. Drive,
+18, Com. Drive, Remove
SUPER 8 SIGN
CONST. LIMITS
DO NOT DISTURB
SAVE
LIGHT BOLLARD
236-T2
236-WD
238-T
240-T
240-WD
238-WD
8" W(QL-D)
6"(AATUR)
30'-12"B @ 0.50%
PI Sta. 190+10.84
N 37° 01' 48" W
S 37° 08' 11" E
℄ SURVEY & CONST. US 250 (MILAN RD.)
6" ABND.
24" WATER NASA — W —
404
403
235-WD
239-T1
239-WD
237-T
15" SAN.
EX. 18"
EX. 36"
6" SAN. FORCE MAIN
6" PVC W/ CAP
EX. 24"
235-T
239-T2
DEDICATION PLAT OF FUN DRIVE PLAT VOL. 4, PG. 93
DEDICATION PLAT OF FUN DRIVE PLAT VOL. 44, PG. 94
CROSSINGS OF SAND DO NOT DISTURB
TACO BELL & LONG JOHN SILVERS
DO NOT DISTURB SIGN/LANDSCAPING
℄ SURVEY & CONST. FUN DRIVE
FUN DRIVE
DO NOT DISTURB PARKING LOT
REVISE 239-T
TOWER
239
GOODNIGHT INN, INC., AN OHIO CORPORATION (⅔ INTEREST) CARMELO RUTA (⅓ INTEREST) 32-03302.000
237
AHG LANDHOLDINGS OF ABSECON, LLC A NEW JERSEY LIMITED LIABILITY COMPANY 32-02006.003
#1000 TACO BELL & LONG JOHN SILVERS
235
REALTY INCOME CORPORATION, A MARYLAND CORPORATION 32-02006.001
DEDICATION PLAT OF FUN DRIVE PLAT VOL. 38, PG. 69
HALLAM TRACT LOT 2
(SEE SHEET 145) MATCH LINE: STA. 188+00
(SEE SHEET 149) MATCH LINE: STA. 193+00

CROSS REFERENCE

Sub-Set Sheet No.	Description
19-21	Lease and Easement Summary
18, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 239; ADD WD & T2, REVISED T TO T1
JJ	4/19/14	PAR. 238; REVISED T & WD
GAB	12/10/13	REV. DR. & CONST. LIMITS AT 190+71 LT.

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT 2&3

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	90°01'24"	30.00'	47.14'	42.44'	S07°58'54"W

A. PETER & BELLE B.
KOB'S SUBDIVISION
PLAT VOL. 15, PG. 4

LOT 9

236

ERIE SHORE PROPERTIES HOLDINGS, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-03494.011

236V,236W

HALLAM TRACT
LOT 3

236N,245O,
227T-(5)

236N,245O,
227T-(6)

236U

236X

S53°00'39"W

S. LINE LOT 11
KOB'S SUBDIVISION

32-04397.000

238C,240C
238B,240B,
245B,233B

240L

S52°55'49"W

238
GIOVANNA RUTA, INC
32-04395.000

240
FIRELANDS REGIONAL
MEDICAL CENTER
AN OHIO NON-PROFIT
CORPORATION
32-63010.000

245J,238J,
240J

+42.50
80.00' LT.

+10.99
80.00' LT.

+51.20
80.00' LT.

RP23804 +31.00
55.00' LT.

+41.00
55.00' LT.
RP23805

+27.76
80.00' LT.

S37°08'11"E 10.00'

S37°01'48"E 168.33'

40.22'

S37°08'11"E 176.55'

S37°08'11"E 108.24'

236-T2

236-T

238-T

240-T

RP23607 +42.48
60.00' LT.

N53°01'40"E
20.00'

RP23609 +50.00
60.00' LT.

+83.28
52.00' LT.

RP23617
+10.79 (BK)=
+10.89 (AHD)
52.00' LT.

+51.13
52.00' LT.

RP23612

N52°51'49"E
3.00'

RP23801 +27.72
52.00' LT.

238K,245N

S37°01'48"E 80.48'

10.00'

RP23610 +50.00
52.00' LT.

S52°58'12"W
8.00'

28.00'

28.00'

S37°01'48"E 55.47'

107.52'

236-WD

60.79'

40.24'

S37°08'11"E 79.87'

S37°08'11"E 86.72'

S37°08'11"E 190.27'

236-T1

RP23606 +42.47
50.00' LT.

236J

N37°01'48"W 240.89'

PP23602
+83.28
45.00' LT.

27.52'

+10.80
45.00' LT.

31.84'

+51.11
45.00' LT.

H1212
(0.31' S
0.16' E)

+31.00
52.00' LT.
RP23803

S37°08'11"E 184.99'

S52°51'49"W
3.00'

PP24002

236K,238L

+41.00
52.00' LT.
RP23806

238-WD

+27.72
45.00' LT.

256.50'

240-WD

212D,218G,220G,225D,
226E,227F,236G

236H

404

STA. 188+88.29, ℄ SURVEY & CONST.
US 250 (MILAN RD.)=
STA. 50+00.00, ℄ SURVEY & CONST.
FUN DR.

N52°55'00"E
45.00'

N52°56'19"E

45.00'

PI Sta.
190+10.84

216.82' TO PI
STA. 190+10.84

+42.66

+27.66

189

388.65'

318.45'

190

31.82'

32.99'

191

185.00'

N37°08'11"W 301.89'
430.16'

192

256.50'

℄ SURVEY & CONST.
US 250 (MILAN RD.)

FORMALLY KNOWN AS
STA. 244+36.14 (ERI-250-1.14)
(PV 14, PG. 84)

ERI0250021

+43.83

239F

403

239-T1

239-WD

S37°08'11"E
10.00'

RP23902 +60.00
45.00' RT.

+70.00
45.00' RT.
RP23903

N52°51'49"E
7.00'

(SEE SHEET 146)
MATCH LINE: STA. 188+00

(SEE SHEET 150)
MATCH LINE: STA. 193+00

235-WD

N37°01'48"W
207.83'

S37°01'48"E
206.09'

+28.26
45.00' RT.

+30.00
52.00' RT.
RP23501

+27.00
57.00' RT.

P26

235B

+56.75
45.00' RT.

237-T

+10.84
45.00' RT.

+43.98
45.00' RT.

S37°08'11"E 301.57'

N52°51'49"E
7.00'

75.55'

Ex SH

S37°01'48"E 54.13'

33.19'

7.00'

216.02'

+18.25
83.50' RT.

+30.00
70.00' RT.
RP23502

+58.26
75.01' RT.
RP23503

S37°01'48"E 51.24'

+59.65
52.00' RT.

33.22'

+44.01
52.00' RT.

PP23702
(0.05' S
0.31' W)

N37°08'11"W 215.99'

75.52'

239-T2

RP23905 +60.00
52.00' RT.

+70.00
52.00' RT.
RP23904

N37°08'11"W
10.00'

239-WD

235-T

R1

DEDICATION PLAT
OF FUN DRIVE
PLAT VOL. 44, PG. 93

DEDICATION PLAT
OF FUN DRIVE
PLAT VOL. 44, PG. 94

S82°01'59"E 54.44'

9.90'

58.55'

N82°01'59"W

237A

237L1

N49°57'26"E
19.03'

N37°01'48"W
204.84'

N26°58'16"W
28.70'

+46.00
76.00' RT.

+18.25
93.40' RT.

239

GOODNIGHT INN, INC.,
AN OHIO CORPORATION (⅔ INTEREST)
CARMELO RUTA (⅓ INTEREST)
32-03302.000

229F

N37°01'48"W
18.00'

N52°58'12"E
74.00'

+28.00
76.00' RT.

75.00'

+46.00
150.00' RT.

+58.23
150.01' RT.

N36°59'43"W
12.23'

℄ SURVEY & CONST.
FUN DRIVE

DEDICATION PLAT
OF FUN DRIVE
PLAT VOL. 38, PG. 69

S52°59'36"W

N52°59'36"E

235B

S52°39'57"W

224A,228A,229A

HALLAM TRACT
LOT 2

235
REALTY INCOME
CORPORATION,
A MARYLAND
CORPORATION
32-02006.001

237
AHG LANDHOLDINGS OF
ABSECON, LLC
A NEW JERSEY LIMITED
LIABILITY COMPANY
32-02006.003

FUN DRIVE

Ex U
Ex SH
Ex R/W
TMP
R/W
℄

CROSS REFERENCE

Sub-Set Sheet No.	Description
19-21	Lease and Easement Summary
18, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	4/19/14	PAR. 239; ADD WD & T2, REVISED T TO T1
JJ	4/19/14	PAR. 238; REVISED T & WD

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 188+00 TO STA. 193+00
ERI-250-0.00

148/178
647/677

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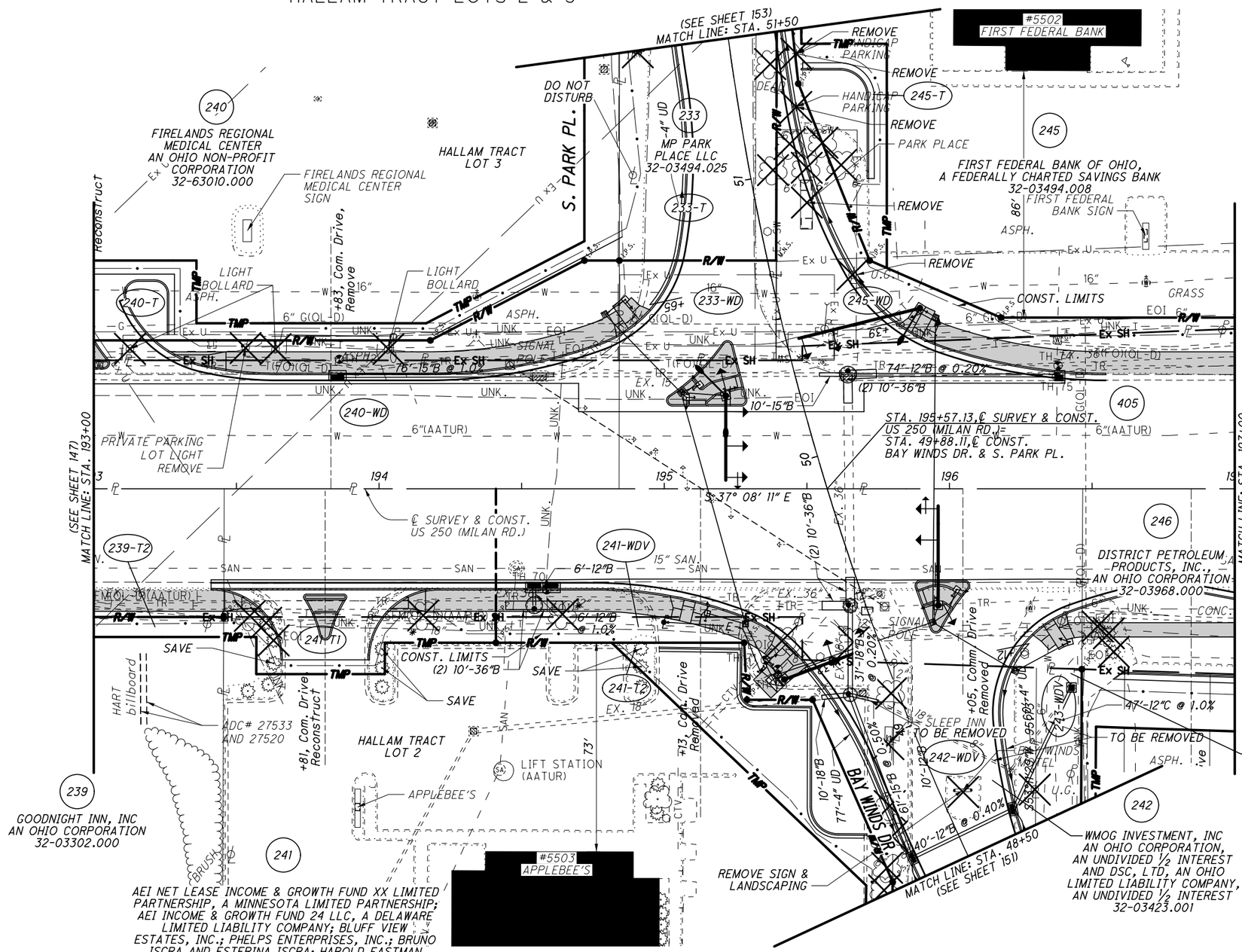
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOTS 2 & 3



BAY WINDS DR. & PARK PLACE DRIVE SOUTH CURVE DATA
P.I. Sta. 50+02.87
Δ = 32° 54′ 58″ (RT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 295.42′
L = 574.49′
E = 42.72′
C = 566.63′
C.B. = N 36° 12′ 28″ E

CROSS REFERENCE	
Sub-Set Sheet No.	Description
20-22	Lease and Easement Summary
17-19, 24	Summary of Additional R/W

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 233; REVISED OWNERSHIP NAME
JJ	4/19/14	PAR. 239; ADD WD & T2, REVISED T TO T1
JJ	3/14/14	PAR. 241; REVISED NEW OWNERSHIP

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 193+00 TO STA. 197+00
ERI-250-0.00

149 / 178
648 / 677

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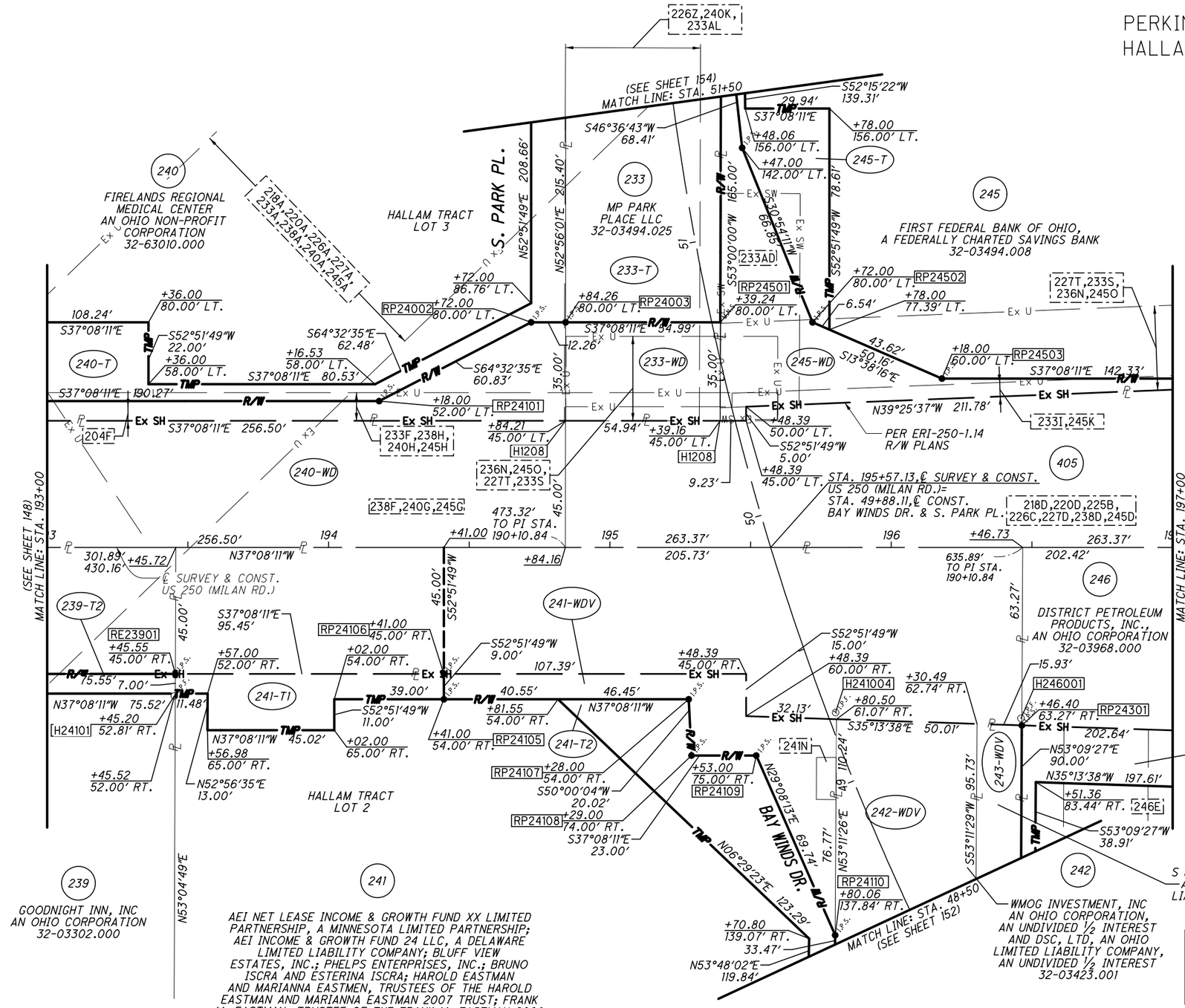
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOTS 2 & 3



CROSS REFERENCE	
Sub-Set Sheet No.	Description
20-22	Lease and Easement Summary
17-19, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 233; REVISED OWNERSHIP NAME
JJ	4/19/14	PAR. 239; ADD WD & T2, REVISED T TO T1
JJ	3/14/14	PAR. 241; REVISED NEW OWNERSHIP
JJ	10/28/31	PAR. 242; ADD OVERALL DIST. TO COURSE
JJ	10/09/13	PAR. 245-T, CORRECTED A COURSE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 193+00 TO STA. 197+00

ERI-250-0.00

150 / 178

649 / 677

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT2

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 44+00 TO STA. 50+00

ERI-250-0.00

HALLAM TRACT
LOT 2

244
J & M HOSPITALITY, LLC
AN OHIO LIMITED LIABILITY COMPANY
32-04334.000

SLEEP INN #5509

241
AEI NET LEASE INCOME & GROWTH FUND XX LIMITED PARTNERSHIP, A MINNESOTA LIMITED PARTNERSHIP; AEI INCOME & GROWTH FUND 24 LLC, A DELAWARE LIMITED LIABILITY COMPANY; BLUFF VIEW ESTATES, INC.; PHELPS ENTERPRISES, INC.; BRUNO ISCRA AND ESTERINA ISCRA; HAROLD EASTMAN AND MARIANNA EASTMAN, TRUSTEES OF THE HAROLD EASTMAN AND MARIANNA EASTMAN 2007 TRUST; FRANK M. EASTMAN, TRUSTEE OF THE FRANK M. EASTMAN 2008 REVOCABLE TRUST; CHARLES ALLEN SCHUETTE AND MARY J. SCHUETTE
32-04334.003

242
WMOG INVESTMENT, INC AN OHIO CORPORATION, AN UNDIVIDED ½ INTEREST AND DSC, LTD, AN OHIO LIMITED LIABILITY COMPANY, AN UNDIVIDED ½ INTEREST
32-03423.001

243
S & S REALTY LTD., AN OHIO LIMITED LIABILITY COMPANY
32-04334.002

246
HALLAM TRACT
LOT 2

DISTRICT PETROLEUM PRODUCTS, INC., AN OHIO CORPORATION
32-03968.000

248
ERIE SHORES, LLC
A DELAWARE LIMITED LIABILITY COMPANY
32-01216.000

#5513
MAUI SANDS

#5511
SHELL GAS STATION

#5511
SHELL GAS PUMPS

BAY WINDS DR.

241-T2
242-WDV
243-WDV
244-T
244-WDV
246-WDV
246-T
248-T1
248-WDV

DO NOT DISTURB
DO NOT DISTURB OVERHANG
ISLAND/DRIVE REMOVED
CONST. LIMITS
+85, Comm. Dr. Removed
+17, Comm. Drive Reconstructed
Sta. 47+02.45 Comm. Drive Reconstructed
PRC Sta. 45+92.60
PC Sta. 45+92.60
MATCH LINE: STA. 49+50 (SEE SHEET 149)
℄ CONST. BAY WINDS DR.
N 52° 58′ 12″ E
32-04334.001

BAY WINDS RD & PARK PLACE DRIVE SOUTH CURVE DATA

P.I. Sta. 46+51.71	P.I. Sta. 50+02.87
Δ = 33° 13′ 12″ (LT)	Δ = 32° 54′ 58″ (RT)
Dc = 28° 56′ 14″	Dc = 5° 43′ 46″
R = 198.00′	R = 1,000.00′
T = 59.06′	T = 295.42′
L = 114.80′	L = 574.49′
E = 8.62′	E = 42.72′
C = 113.20′	C = 566.63′
C.B. = N 36° 21′ 36″ E	C.B. = N 36° 12′ 28″ E

CROSS REFERENCE	
Sub-Set Sheet No.	Description
21, 22	Lease and Easement Summary
18, 19	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	3/14/14	REV. 241; REVISED NEW OWNERSHIP
DATE COMPLETED 9/12/13		

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT2

HALLAM TRACT
LOT 2

241
AEI NET LEASE INCOME & GROWTH FUND XX LIMITED PARTNERSHIP, A MINNESOTA LIMITED PARTNERSHIP; AEI INCOME & GROWTH FUND 24 LLC, A DELAWARE LIMITED LIABILITY COMPANY; BLUFF VIEW ESTATES, INC.; PHELPS ENTERPRISES, INC.; BRUNO ISCRA AND ESTERINA ISCRA; HAROLD EASTMAN AND MARIANNA EASTMAN, TRUSTEES OF THE HAROLD EASTMAN AND MARIANNA EASTMAN 2007 TRUST; FRANK M. EASTMAN, TRUSTEE OF THE FRANK M. EASTMAN 2008 REVOCABLE TRUST; CHARLES ALLEN SCHUETTE AND MARY J. SCHUETTE
32-04334.003

BAY WINDS DR. & PARK PLACE DRIVE SOUTH
CURVE DATA

P.I. Sta. 46+51.71	P.I. Sta. 50+02.87
Δ = 33° 13′ 12″ (LT)	Δ = 32° 54′ 58″ (RT)
Dc = 28° 56′ 14″	Dc = 5° 43′ 46″
R = 198.00′	R = 1,000.00′
T = 59.06′	T = 295.42′
L = 114.80′	L = 574.49′
E = 8.62′	E = 42.72′
C = 113.20′	C = 566.63′
C.B. = N 36° 21′ 36″ E	C.B. = N 36° 12′ 28″ E

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 44+00 TO STA. 50+00
ERI-250-0.00

152 / 178
651 / 677

N53°48′02″E 30.30′
195+53.34 289.12′ RT.
195+53.84 258.83′ RT.
S36°53′03″E 15.00′
195+68.84 258.89′ RT.
N37°15′24″W 25.85′
195+79.20 289.07′ RT.
241-T2
N53°48′02″E 119.84′
N53°11′26″E 117.76′
33.47′
110.24′
195+79.87 171.31′ RT.
N23°47′42″E 52.93′
RP24401 196+05.58 217.57′ RT.
H244002
244-T
196+29.94 158.47′ RT.
N23°47′48″E 32.58′
246-WDV
S53°11′29″W 95.73′
33.68′
196+45.77 186.95′ RT.
H246003 0.01′,S 0.63′,W
N53°09′27″E 90.00′
S53°09′27″W 38.91′
196+51.16 122.35′ RT.
196+45.94 153.27′ RT. RP24601
N27°24′17″E 62.00′
72.77′
90.45′
S27°24′17″W 17.68′
196+72.59 209.25′ RT. RP24606
18.27′
196+82.44 188.06′ RT.
246E
196+90.04 204.02′ RT.
S53°49′08″E 68.00′
246
246-WDV
DISTRICT PETROLEUM PRODUCTS, INC., AN OHIO CORPORATION 32-03968.000
49.79′
92.00′
H246004
197+37.73 189.73′ RT. RP24603
248-WDV
56.06′
S78°15′00″W 10.87′
S78°15′00″W 65.93′
RP24605 197+65.58 202.16′ RT.
8.68′
197+73.69 199.07′ RT.
21.48′
N57°59′39″W 30.16′
RP24604 197+93.77 191.42′ RT.
S35°24′23″E
248H
HALLAM TRACT LOT 2
197+43.31 263.09′ RT.
248-T1
248F
N37°01′48″W 50.00′
RP24202 197+36.64 379.62′ RT.
6.00′
197+42.64 379.63′ RT.
N53°11′31″E 102.90′
RP24201 197+37.23 276.72′ RT.
117.90′
15.00′
197+37.32 261.72′ RT. RP24602
87.00′
S53°11′31″W 72.00′
S53°11′31″W 116.54′
N07°19′49″E 128.16′
32-04334.001
242
WMOG INVESTMENT, INC AN OHIO CORPORATION, AN UNDIVIDED ½ INTEREST AND DSC, LTD, AN OHIO LIMITED LIABILITY COMPANY, AN UNDIVIDED ½ INTEREST 32-03423.001
243
S & S REALTY LTD., AN OHIO LIMITED LIABILITY COMPANY 32-04334.002
243-WDV
MATCH LINE: STA. 50+00 (SEE SHEET 150)
N07°19′49″E 95.56′
N07°19′48″E 114.23′
PRC Sta. 47+07.45
PC Sta. 45+92.65
196+52.72 426.81′ RT.
196+52.97 288.91′ RT.
N52°58′12″E 137.90′
N37°01′48″W 33.65′
244-T
196+86.36 426.88′ RT.
RP24403 196+86.64 379.53′ RT.
47.35′
RP24404 196+73.78 284.51′ RT.
N45°09′26″E 95.88′
18.67′
S53°11′31″W 81.94′
196+87.11 297.59′ RT.
244-WDV
47
46
45
N 52° 58′ 12″ E
℄ CONST. BAY WINDS DR.
242-T
242-WDV
244
J & M HOSPITALITY, LLC AN OHIO LIMITED LIABILITY COMPANY 32-04334.000
248
ERIE SHORE, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-01216.000
BAY WINDS DR.
EX SW
EX SW
EX SW

CROSS REFERENCE	
Sub-Set Sheet No.	Description
21, 22	Lease and Easement Summary
18, 19	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	3/14/14	PAR. 241; REVISED NEW OWNERSHIP
JJ	10/29/13	PAR. 242; ADD OVERALL DIST. TO COURSE
JJ	10/08/13	PAR 241-T2, ADDED AN ID BUBBLE

DATE COMPLETED 9/12/13

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT2

PARK PLACE DRIVE SOUTH
CURVE DATA
P.I. Sta. 50+02.87
Δ = 32° 54′ 58″ (RT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 295.42′
L = 574.49′
E = 42.72′
C = 566.63′
C.B. = N 36° 12′ 28″ E

240
FIRELANDS REGIONAL MEDICAL CENTER
AN OHIO NON-PROFIT CORPORATION
32-63010.000

233
MP PARK PLACE LLC
32-03494.025

233-T

245-T

245-WD
HALLAM TRACT LOT 2

245
FIRST FEDERAL BANK OF OHIO,
A FEDERALLY CHARTERED SAVINGS BANK
32-03494.008

S. PARK PL.
CONST. LIMITS
DO NOT DISTURB
DO NOT DISTURB
EX. 15"
SEPTIC BOX?
℄ CONST. PARK PLACE DR. SOUTH
DO NOT DISTURB -LANDSCAPING
(SEE SHEET 149) MATCH LINE: STA. 51+50
CONST. LIMITS
Ex U
Ex SW
MS
T

CROSS REFERENCE	
Sub-Set Sheet No.	Description
16, 18-22	Lease and Easement Summary
16-19	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 233; REVISED OWNERSHIP NAME

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 50+00 TO STA. 55+00

ERI-250-0.00

153/178
652/677

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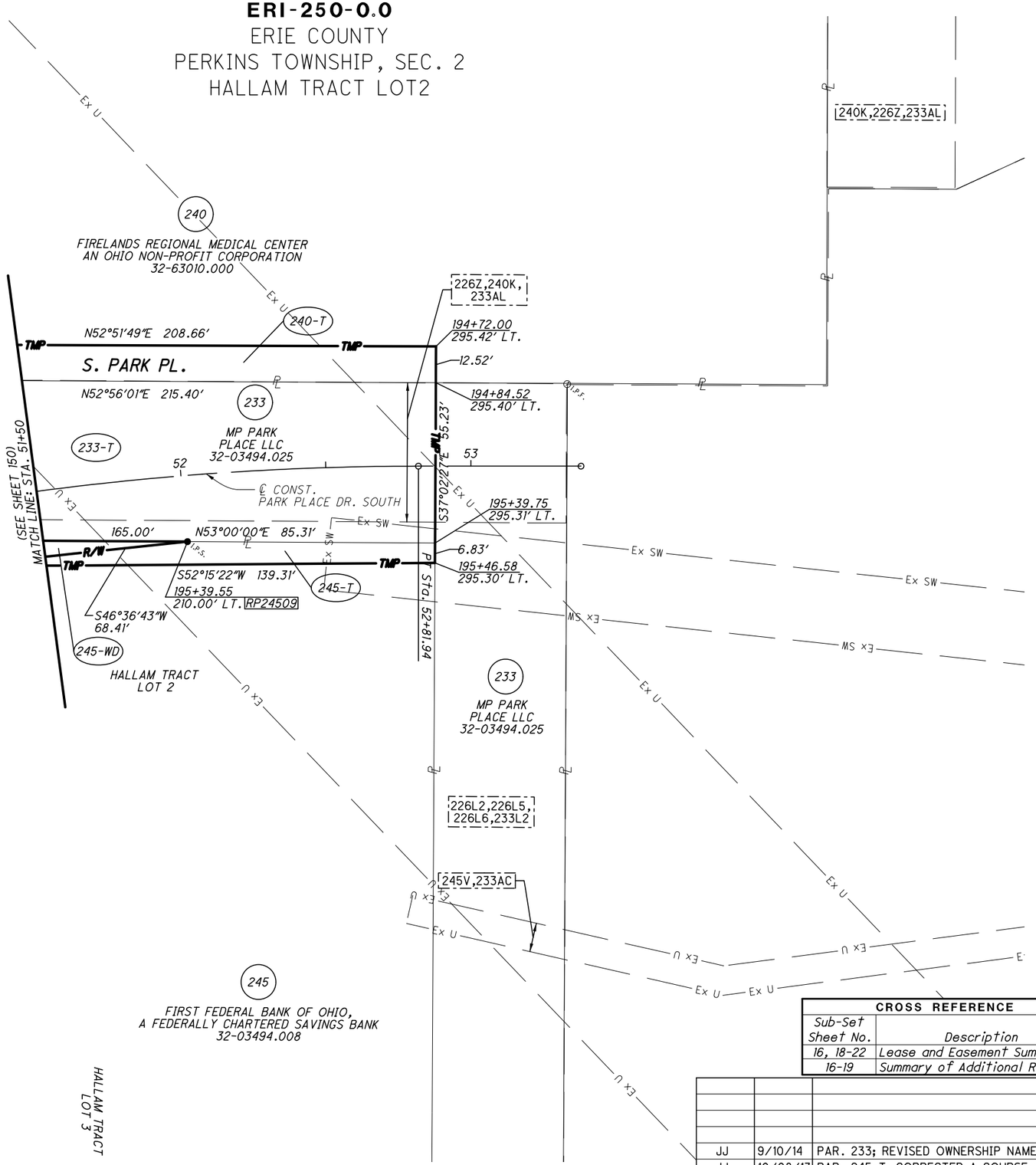
ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOT2



CROSS REFERENCE	
Sub-Set Sheet No.	Description
16, 18-22	Lease and Easement Summary
16-19	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/10/14	PAR. 233; REVISED OWNERSHIP NAME
JJ	10/08/13	PAR. 245-T; CORRECTED A COURSE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 50+00 TO STA. 55+00

ERI-250-0.00

154/178

653/677

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOTS 1,2,&3

CURVE DATA ℄ CONST. RAMADA ST.
P.I. Sta. 1+33.51
Δ = 32° 35′ 42″ (RT)
Dc = 28° 38′ 52″
R = 200.00′
T = 58.47′
L = 113.78′
E = 8.37′
C = 112.25′
C.B. = N 69° 09′ 40″ E

CURVE DATA ℄ SURVEY RAMADA ST.
P.I. Sta. 1+45.87
Δ = 32° 35′ 42″ (RT)
Dc = 38° 11′ 50″
R = 150.00′
T = 43.86′
L = 85.33′
E = 6.28′
C = 84.19′
C.B. = N 69° 09′ 40″ E

HALLAM TRACT LOT 3
RAMADA STREET DEDICATION PLAT SAN. VOL. 20, PG. 25
RAMADA ST.
PT Sta. 1+88.82
PT Sta. 1+87.35
5'-12"B
10'-12"B
Ex R/W
245
FIRST FEDERAL BANK OF OHIO, A FEDERALLY CHARTERED SAVINGS BANK 32-03494.008
FIRST FEDERAL BANK SIGN
ASPH.
CONC.
SAN.
16"
Ex U
Ex SH
TH 146
TH 145
TH 24
TR
CP18
18" SAN.
24"
℄ CONST. RAMADA RD.
N 52° 51' 40" E
℄ SURVEY RAMADA RD.
6" ABND
S 37° 08' 11" E
198
199
200
(SEE SHEET 149) MATCH LINE: STA. 197+00
(SEE SHEET 157) MATCH LINE: STA. 201+00
STA. 198+13.29, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00, ℄ CONST. RAMADA ST.
STA. 198+21.19, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00, ℄ SURVEY RAMADA ST.
18'-12"B @2.0%
10'-12"B
10'-36"B
10'-18"B
10'-6"B
EX. 18"
EX. 36"
℄ SURVEY & CONST. US 250 (MILAN RD.)
CANOPY
#5606 SONIC
ASPH.
247
ULTIMATE DEVELOPING LLC 32-03469.000
+07, Com. Drive
PC Sta. 1+02.01
PC Sta. 0+75.04
62'
63'
64'
+67, Com. Drive Reconstruct
247-T
DO NOT DISTURB
SONIC
ASPH.
SONIC SIGN
TMP
6"
16"
GRASS
5'-12"B
Ex LA
EX. 36"
CONST. LIMITS
251
RUTA CARMELO 32-02872.000
+62, Comm. Drive, Reconstruct
DO NOT DISTURB
Ex SH
Ex LA
AT&T CONST. LIMITS
mound landscape area
FAKE PALM TREES (TYP.)
PIPES
mound stone
U.G.
246-T
EXIST. AIR COMP.
SHELL SIGN
246
DISTRICT PETROLEUM PRODUCTS, INC AN OHIO CORPORATION 32-03968.000
#5511 SHELL GAS PUMPS
#5511 SHELL GAS STATION
CANOPY & GAS PUMPS
HALLAM TRACT LOT 2
FILLER CAPS
248-WDY
248-T2
STATUE
DO NOT DISTURB LANDSCAPING
FAKE PALM TREES (TYP.)
MAUI SANDS SIGN
248
ERIE SHORE, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-01216.000
HALLAM TRACT LOT 2
HALLAM TRACT LOT 1
117'
HALLAM TRACT LOT 1
#5513 MAUI SANDS HOTEL
EX. 8"W
EX. 8"S

CROSS REFERENCE	
Sub-Set Sheet No.	Description
21, 22	Lease and Easement Summary
19, 20	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/3/14	PAR. 247; REMOVED PARCEL 247-WL
DSS	10/29/14	PAR. 247; REVISED DRIVE
JJ	11/25/13	CHANGE 247-LA TO 247-WL
JJ	11/06/13	PAR. 246; REVISED DRIVE FOR TRUCK EXIT

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 197+00 TO STA. 201+00

ERI-250-0.00

155/178
654/677

11/3/2014 2:14:37 PM
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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOTS 1,2,&3

CURVE DATA ℄ CONST. RAMADA ST.
P.I. Sta. 1+33.51
Δ= 32° 35′ 42″ (RT)
Dc = 28° 38′ 52″
R = 200.00′
T = 58.47′
L = 113.78′
E = 8.37′
C = 112.25′
C.B. = N 69° 09′ 40″ E

CURVE DATA ℄ SURVEY RAMADA ST.
P.I. Sta. 1+45.87
Δ = 32° 35′ 42″ (RT)
Dc = 38° 11′ 50″
R = 150.00′
T = 43.86′
L = 85.33′
E = 6.28′
C = 84.19′
C.B. = N 69° 09′ 40″ E

227T,233S, 236N,245O
HALLAM TRACT LOT 3
RAMADA STREET DEDICATION PLAT PLAT VOL. 20, PG. 25
RAMADA ST. 2-L
P23
PT Sta. 1+88.82
PT Sta. 1+81.35
+81.19 157.76′ LT.
Ex R/W
H1201
Ex U
245
FIRST FEDERAL BANK OF OHIO, A FEDERALLY CHARTERED SAVINGS BANK 32-03494.008
N64°54′22″E
H1223
+61.18 134.32′ LT.
247L1
247
ULTIMATE DEVELOPING LLC 32-03469.000
P24
PC Sta. 1+02.01
N52°51′43″E
233AD
RP24504 +60.33 60.00′ LT.
PC Sta. 0+75.04
+31.54 85.47′ LT.
N50°34′21″E 20.13′
+32.34 65.36′ LT.
TMP
247-T
60.00′ S39°25′39″E
+91.49 87.87′ LT. S50°34′21″W 20.13′
+92.30 67.76′ LT.
S39°25′37″E 71.22′
187.36′
60.00′
Ex SH
Ex LA
48.25′
+38.63 90.00′ LT. N37°08′11″W 103.31′
+48.39 70.00′ LT. RE24701
S37°08′11″E 100.00′
251
RUTA CARMELO 32-02872.000
S66°22′49″W
S37°08′11″E 142.33′
N39°25′37″W 211.78′
1.57′
+60.00 58.46′ LT.
245-WD
H1200
CP18
218C,220C,225A, 226B,227B,238A
+61.18 62.51′ LT. RP24702
+00.18 68.07′ LT. BEGIN EX. L/A LT.
247D
68.07′ N52°51′49″E
59.78′
℄ CONST. RAMADA RD. N 52° 51′ 42″ E
℄ SURVEY RAMADA RD. N 52° 51′ 40″ E
7.9′
218D,220D,225B, 226C,227D,238D,245D
736.69′ TO PI STA. 190+10.84
263.37′
202.42′
113.65′
S 37° 08′ 11″ E
+47.53
198
850.34′ TO PI STA. 190+10.84
+49.14
62.51′
+61.18 RP24701
199
66.04′
+15.18
ERI0250022
287.21′
N37°08′11″W
200
+00.18
(SEE SHEET 150) MATCH LINE: STA. 197+00
MATCH LINE: STA. 201+00 (SEE SHEET 158)
℄ SURVEY & CONST. US 250 (MILAN RD.)
70.02′
72.23′
N52°51′49″E
STA. 198+13.29,℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00,℄ CONST. RAMADA ST.
STA. 198+21.19,℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00,℄ SURVEY RAMADA ST.
+48.93 70.02′ RT.
+89.63 71.38′ RT.
+15.13 72.31′ RT. BEGIN EX. L/A RT.
Ex SH
N35°13′38″W 202.64′
40.72′
25.57′
Ex LA
233.29′ S35°13′38″E
20.01′
TMP
N35°13′38″W 197.61′
40.13′
S54°45′10″W 20.00′
+88.97 91.36′ RT.
+48.86 90.03′ RT.
246-T
248-T2
246
DISTRICT PETROLEUM PRODUCTS, INC AN OHIO CORPORATION 32-03968.000
248
ERIE SHORE, LLC A DELAWARE LIMITED LIABILITY COMPANY 32-01216.000
S53°02′32″W
248F
30′ ACCESS EASEMENT
HALLAM TRACT LOT 2
HALLAM TRACT LOT 1
HALLAM TRACT LOT 1

CROSS REFERENCE	
Sub-Set Sheet No.	Description
21, 22	Lease and Easement Summary
19, 20	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/3/14	PAR. 247; REMOVED PARCEL 247-WL
JJ	11/25/13	CHANGED PARCEL 247-LA TO 247-WL

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 197+00 TO STA. 201+00
ERI-250-0.00

156/178
655/677

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOTS 1&3
860 ACRE TRACT LOT 4

RUTA CARMELO
32-02872.000

ULTIMATE DEVELOPING LLC
32-03469.000

AMERICA BEST VALUE INN SIGN

HALLAM TRACT LOT 3

14'-76"x47"A, 706.04

38'-36"C TO BE REMOVED

RAMP "B"

℄ RAMP "B"

PC Sta. 1+00.00

860 ACRE TRACT LOT 4

CONST. LIMITS

860 ACRE TRACT LOT 4 HALLAM TRACT

S 37° 08' 11" E

℄ SURVEY & CONST. US 250 (MILAN RD.)

STA. 202+48.34, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00, ℄ SURVEY RAMP "B"= STA. 13+20.22, ℄ SURVEY RAMP "A"

PRELIMINARY LA-R/W TAKE 0.8787 AC.

REPLACE FIRST 6' SECTION OF EX. CULVERT BOTH ENDS

76"x48" RCP

MAUI SANDS RESORT SIGN

CONST. LIMITS

36'-76"x48"A, 706.04

mound of stone

Ex. 24" RCP

2" SERVICE

84'-24" A

81'-18"B @ 0.30%

+68, New Drive & Landscape Access

RAMP "A"

℄ RAMP "A"

HALLAM TRACT LOT 2

MAUI SANDS RESORT SIGN

(SEE SHEET 155) MATCH LINE: STA. 201+00

MATCH LINE: STA. 206+00 (SEE SHEET 159)

CROSS REFERENCE	
Sub-Set Sheet No.	Description
22	Lease and Easement Summary
19, 20	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/25/13	ADDED ID TO PARCEL 247-WL

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 201+00 TO STA. 206+00

ERI-250-0.00

157/178

656/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
HALLAM TRACT LOTS 1&3
860 ACRE TRACT LOT 4

251
RUTA CARMELO
32-02872.000

247
ULTIMATE DEVELOPING LLC
32-03469.000

+02.21
132.99' LT.

N75°41'50"E

Ex LA
N75°41'50"E

℄ RAMP "B"

RAMP "B"

74.03'
S72°38'01"E

H1222
+18.44
120.00' LT.

+41.99
90.00' LT.

℄
S72°38'01"E 86.11'

N37°08'11"W 103.31'

HALLAM TRACT
LOT 3

860 ACRE TRACT
LOT 4

PC Sta. 1+00.00

H1221
Ex LA
S37°08'11"E 100.00'

+48.39
70.00' LT.

218D,220D,225B,226C,
227D,238D,240D,245D

N 72° 51' 49" E

860 ACRE TRACT
LOT 4
LESS
LOT 1
HALLAM TRACT

247-WL

℄
S52°51'49"W 70.00'

(SEE SHEET 156)
MATCH LINE: STA. 201+00

287.21'
N37°08'11"W

99.95'
+48.39

202

203

204

501.34'

205

STA. 206+00
(SEE SHEET 160)
MATCH LINE:

S 37° 08' 11" E

℄ SURVEY & CONST.
US 250 (MILAN RD.)

STA. 202+48.34,℄ SURVEY & CONST.
US 250 (MILAN RD.)=
STA. 0+00.00,℄ SURVEY RAMP "B"=
STA. 13+20.22,℄ SURVEY RAMP "A"

H248002
+48.34
80.00' RT.

Ex LA

53.15'
N11°40'39"E

Ex LA

H248003
+83.34
120.00' RT.

248I

Ex LA

N53°09'56"E

14

13

RAMP "A"

℄ RAMP "A"

HALLAM TRACT
LOT 2

CROSS REFERENCE	
Sub-Set Sheet No.	Description
22	Lease and Easement Summary
19, 20	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/25/13	ADDED ID TO PARCEL 247-WL

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 201+00 TO STA. 206+00

ERI-250-0.00

158/178
657/677

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 206+00 TO STA. 211+00

ERI-250-0.00

159/178

658/677

RTE 2 (WEST BOUND)
RTE 2 (EAST BOUND)
DENSE VEGETATION
BRUSH
862
860
859
CONST. LIMITS
EOI
RISER
(3)TD 4"
16" W(QL-C)
16" (AATUR)
6" (AATUR)
6" W(QL-C)(AATUR)
5 3/16" G(QL-C)
860 ACRE TRACT LOT 4
HALLAM TRACT LOT 1
℄ RTE 2
℄ SURVEY & CONST. US 250 (MILAN RD.)
UNK.
STA. 207+49.68, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 860+35.68= ℄ RTE 2
STA. 208+52.44, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 1+81.79, ℄ RAMP E
S 37° 08' 11" E
207
208
209
210
(SEE SHEET 157) MATCH LINE: STA. 206+00
MATCH LINE: STA. 211+00 (SEE SHEET 161)

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

RTE 2 (WEST BOUND)

RTE 2 (EAST BOUND)

862

861

860

859

℄ RTE 2

(SEE SHEET 158)
MATCH LINE: STA. 206+00

S 37° 08' 11" E 501.34'

207

STA. 207+49.68, ℄ SURVEY & CONST.
US 250 (MILAN RD.)=
STA. 860+35.68= ℄ RTE 2

208

102.76'

209

STA. 208+52.44, ℄ SURVEY & CONST.
US 250 (MILAN RD.)=
STA. 1+81.79, ℄ RAMP E

446.21'

210

℄ SURVEY & CONST.
US 250 (MILAN RD.)

860 ACRE TRACT
LOT 4

860 ACRE TRACT
LOT 4

860 ACRE TRACT
LOT 4
LOT 1
HALLAM TRACT

MATCH LINE: STA. 211+00
(SEE SHEET 162)

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 206+00 TO STA. 211+00

ERI-250-0.00

160 / 178

659
677

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

RAMP "C"
℄ RAMP "C"
DENSE VEGETATION
Ex LA
SPEEDWAY
GAS PUMPS
860 ACRE TRACT LOT 4
MOTEL CLOSED
249
EMRO MARKETING COMPANY, A DELAWARE CORPORATION
NKA SPEEDWAY LLC, A DELAWARE LIMITED LIABILITY COMPANY
32-02365.000
252
CARMELO RUTA, INC., AN OHIO CORPORATION
32-03054.000
+08, Landscape Access Drive
+14, Com. Drive, Remove
+18, Com. Drive, No Work
ROCK CHANNEL PROTECTION TYPE C, 2'-0" THICK W/ FILTER
55'-30"B @ 0.50%
DO NOT DISTURB
DO NOT DISTURB
16'-12"B @ 1.0% DISTURB SIGN/LANDSCAPE
DO NOT DISTURB
PUMP
CONC.
48'
76'
ASPH.
TMP
Ex SH
U.G.
mulch
bushes
249-T
252-T
GRASS
SPEEDWAY SIGN U.G.
CONST. LIMITS
SERVICE
EX. 18"
16"
6"W
6"(ATUR)
℄(ATUR)
EOI
5 3/16
TH 83
6'-24"B
STA. 212+98.65, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00, ℄ RAMP E= STA. 15+88.98, ℄ RAMP D
EX. 24"
N 37° 8' 11" W
212
213
214
215
249-WL
℄ SURVEY & CONST. US 250 (MILAN RD.)
250-WL
WOOD POST OLD MB
(SEE SHEET 159) MATCH LINE: STA. 211+00
MATCH LINE: STA. 216+00 (SEE SHEET 163)
CONST. LIMITS
1"
3"
TR
16
15
14
RAMP "E"
℄ RAMP "E"
RAMP "D"
℄ RAMP "D"
EX. 15"
CPBASE19
6'-12"B
TH 84
250-TI
STL. POST
ELEC. BOX
ELASH
Ex SH-LA
GRASS
Ex U
FIREWORKS SUPER STORE SIGN
+45, Com. Drive, Remove
DO NOT DISTURB
250
SJA REALITY ENTERPRISES, LLC
NKA ALLISON FAMILY PARTNERSHIP, LLC, AN OHIO LIMITED LIABILITY COMPANY
32-02982.000
88'
32-02983.000
860 ACRE TRACT LOT 4
77'
FIREWORKS SU

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 249; CORRECTED OWNER NAME
JJ	11/25/13	REVISED 249-LA & 250-LA TO WL PARCELS

DATE COMPLETED 9/12/13

CROSS REFERENCE

Sub-Set Sheet No.	Description
22	Lease and Easement Summary
19, 20	Summary of Additional R/W

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 211+00 TO STA. 216+00
ERI-250-0.00

161/178
660/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

RAMP "C"
℄ RAMP "C"
Ex LA
℄
N52°51'49"E
860 ACRE TRACT LOT 4
249
EMRO MARKETING COMPANY, A DELAWARE CORPORATION NKA SPEEDWAY LLC, A DELAWARE LIMITED LIABILITY COMPANY 32-02365.000
252
CARMELO RUTA, INC AN OHIO CORPORATION 32-03054.000
S52°51'49"W
252-T
+70.20 90.04' LT.
REMOVE BENT PIPE H1032 AND REPLACE WITH CAPPED IRON PIN RP24901
H1032
RP24901
+70.20 75.00' LT.
15.04'
75.00'
TMP
S32°46'35"E 200.58'
+70.20 74.79' LT.
62.51'
S32°46'35"E
ELASH
N32°50'50"W 120.13'
249-T
Ex SH
I.P.S.
200.56'
80.43'
14.79'
+90.00 66.02' LT.
RP24902
H1090
Ex SH
N37°08'11"W 304.98'
+70.20 60.00' LT.
66.02'
S52°51'49"W
60.00'
252C
LA
249-WL
ERI0250023
+90.00
119.80'
215
80.20'
+76.01
361.30'
43.99'
MATCH LINE: STA. 216+00 (SEE SHEET 164)
STA. 212+98.65, ℄ SURVEY & CONST. US 250 (MILAN RD.)= STA. 0+00.00, ℄ RAMP E= STA. 15+88.98, ℄ RAMP D
2,359.36' TO PI STA. 190+10.84
MATCH LINE: STA. 211+00 (SEE SHEET 160)
446.21'
212
213
71.55'
N 37° 8' 11" W
℄ SURVEY & CONST. US 250 (MILAN RD.)
+70.20
214
+26.00
55.80'
S37°08'11"E 150.01'
+70.20
2,415.16' TO PI STA. 190+10.84
250-WL
60.69'
RAMP "E"
℄ RAMP "E"
RAMP "D"
℄ RAMP "D"
75.86'
250-T1
RP25001
+14.62 75.00' RT.
H1034
5.37'
CPBASE19
+13.81 80.31' RT.
REMOVE CAPPED 5/8" IRON PIN H1034 AND REPLACE WITH CAPPED IRON PIN RP25001
N42°58'05"W 56.56'
55.22'
N42°45'44"W 153.02'
97.80'
+69.57 69.59' RT.
S47°01'55"W 5.00'
+70.08 74.56' RT.
Ex SH LA
RP25002
+66.90 60.00' RT.
53.10'
ELASH
S37°08'11"E 41.31'
250B
Ex U
250
SJA REALITY ENTERPRISES, LLC NKA ALLISON FAMILY PARTNERSHIP, LLC, AN OHIO LIMITED LIABILITY COMPANY 32-02982.000
S61°29'49"W
32-02983.000
N61°29'47"E
860 ACRE TRACT LOT 4

CROSS REFERENCE	
Sub-Set Sheet No.	Description
22	Lease and Easement Summary
19, 20	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	9/8/14	PAR. 249; CORRECTED OWNER NAME
JJ	11/25/13	REVISED 249-LA & 250-LA TO WL PARCELS

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 211+00 TO STA. 216+00
ERI-250-0.00

162 / 178
661 / 677

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ERI-250-0.0
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

MOTEL CLOSED
ENCROACHING CURB AND ASPAHLT PAVEMENT TO BE REMOVED
GRASS
ASPH.
SAW CUT
ABANDON PHONE BOTH
DO NOT DISTURB SIGN AND LIGHTS
SAVE
TRAVEL LODGE SIGN
ENCROACHING CURB AND ASPHALT PAVEMENT TO BE REMOVED
CONST. LIMITS
+41, Com. Drive, Reconstruct
+79, Com. Drive, Remove
ENCROACHING ASPHALT PAVEMENT TO BE REMOVED
DO NOT DISTURB
DECK
MOTEL
#5918 BUDGET INN
bear statue
dino statue
hippo statue
OVHD. PERKIN CEMETERY SIGN
+39, Com. Drive, Reconstruct
+42, Com. Drive, Reconstruct
BUDGET INN SIGN
CONC.
8" SAN.
6" ABND.
16"
24" SAN
GATE
U.G.
(SEE SHEET 161) MATCH LINE: STA. 216+00
MATCH LINE: STA. 221+00 (SEE SHEET 165)
℄ SURVEY & CONST. US 250 (MILAN RD.)
N 37° 8' 11" W
13.5'x8' BOX CULVERT
PLUM BROOK
EX. 18"
WALL
COMFORT INN SIGN
+40, Com. Drive, Reconstruct
+09, Com. Drive, Remove
+90, Com. Drive, Reconstruct
+77, Com. Drive, Reconstruct
#5909 COMFORT INN
95'
111'
72'
79'
Ex SH
Ex U
TMP
LA
W
SAN
Ex SW

CROSS REFERENCE	
Sub-Set Sheet No.	Description
22, 23	Lease and Easement Summary
20, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/22/14	REV. DRIVES AT PARCELS 252, 253 & 254
JJ	11/25/13	REVISED PARCEL 250-LA TO 250-WL
JJ	10/23/13	PAR. 252; ADD LIGHTS, DO NOT DISTURB

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 216+00 TO STA. 221+00
ERI-250-0.00

163/178
662/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

255
RUTA CARMELO, INC
AN OHIO CORPORATION
32-01503.000

257
BOARD OF TRUSTEES OF PERKINS TOWNSHIP, ERIE COUNTY, OHIO
32-63002.000

252
CARMELO RUTA, INC
AN OHIO CORPORATION
32-03054.000

253
GRANDE HOSITALITY, LLC,
AN OHIO LIMITED LIABILITY COMPANY
32-03989.000

254
MODICA HOSPITALITY, LLC,
AN OHIO LIMITED LIABILITY COMPANY
32-02199.000

250
SJA REALITY ENTERPRISES, LLC
NKA ALLISON FAMILY PARTNERSHIP, LLC,
AN OHIO LIMITED LIABILITY COMPANY
32-02983.000

406

860 ACRE TRACT LOT 4

℄ SURVEY & CONST. US 250 (MILAN RD.)

MATCH LINE: STA. 216+00 (SEE SHEET 162)

MATCH LINE: STA. 221+00 (SEE SHEET 166)

S32°34'49"W

S28°12'02"W

S37°08'11"E 235.16'

N 37° 8' 11" W

N37°08'11"W 304.98'

S37°07'38"E 242.66'

S32°46'35"E 62.51'

N39°45'47"W 218.22'

N37°04'31"W 159.60'

S37°08'11"E 58.68'

S37°08'11"E 129.60'

S37°08'11"E 74.66'

N37°08'11"W 107.21'

N37°08'11"W 212.14'

N37°08'11"W 84.87'

S37°08'11"E 235.84'

S37°08'11"E 232.15'

S43°50'46"E 85.59'

N37°08'11"W 125.00'

N37°08'11"W 37.11'

N37°08'11"W 17.89'

N52°08'49"E

N52°51'49"E 45.00'

N60°28'55"E 34.97'

N29°31'05"W 13.96'

N61°29'48"E

S52°51'49"W 17.25'

S52°51'49"W 40.00'

N54°16'05"E 15.00'

S38°49'38"W 30.26'

S37°08'11"E 14.99'

N52°51'49"E 20.00'

S52°51'49"W 40.00'

N52°51'49"E 40.00'

N52°51'49"E 5.00'

N52°51'49"E 20.00'

N52°51'49"E 5.00'

860 ACRE TRACT LOT 4

Ex SW

Ex SH

Ex U

TMP

LA

250-WL

250-T2

252-T

253-T

254-T

255-T

253I

253G,253E

H1046

RP25101

252A

252B

252E

253A

253B

253C

253D

253F

253G

253J

254A

255A

255C

255G

255K

+20.00 60.00' RT.

+66.89 60.00' RT.

+08.21 60.00' RT.

+65.40 69.83' RT.

+45.32 105.00' RT.

+08.21 105.00' RT.

+40.68 139.66' RT.

+54.52 141.51' RT.

+90.18 90.00' LT.

+75.18 90.00' LT.

+75.18 70.00' LT.

+75.18 60.00' LT.

+32.52 70.00' LT.

+25.00 52.75' RT.

+25.00 70.00' RT.

+90.18 50.00' RT.

+84.89 50.00' RT.

+90.18 90.00' RT.

+12.29 90.00' RT.

+15.18 90.00' LT.

+22.68 60.00' LT.

+25.18 50.00' LT.

+64.28 60.00' LT.

+67.97 50.00' LT.

+38.94 80.00' LT.

+38.94 60.00' LT.

+75.18 50.00' LT.

+75.18 45.00' LT.

+11.79 50.00' RT.

+38.49 50.00' RT.

+30.18 50.00' RT.

+30.18 90.00' RT.

+23.49 40.00' RT.

+55.18 50.00' RT.

+55.18 45.00' RT.

+31.38 50.00' RT.

+31.01 65.00' RT.

+11.16

+31.50

+86.46

+20.00

+76.00

+15.18

+22.68

+64.28

+38.94

+38.94

+75.18

+75.18

+55.18

+23.49

+55.18

+38.49

+30.18

+31.38

+31.01

+90.18

+90.18

+12.29

+30.18

+25.00

+25.00

+25.18

+67.97

+75.18

+75.18

+55.18

25.01'

99.03'

41.27'

30.00'

10.00'

41.60'

10.31'

42.79'

10.66'

107.21'

53.31'

54.95'

305.63'

43.99'

56.00'

361.30'

60.00'

60.69'

72.50'

82.44'

46.89'

158.27'

59.95'

92.89'

8.31'

23.80'

53.10'

11.79'

9.94'

22.11'

50.00'

40.00'

5.30'

5.00'

8.31'

15.00'

65.00'

5.00'

5.00'

34.97'

13.96'

17.89'

85.59'

125.00'

232.15'

84.87'

212.14'

107.21'

37.11'

45.00'

59.95'

92.89'

8.31'

23.80'

53.10'

11.79'

9.94'

22.11'

50.00'

40.00'

5.30'

5.00'

8.31'

15.00'

65.00'

5.00'

5.00'

34.97'

13.96'

17.89'

85.59'

125.00'

232.15'

84.87'

212.14'

107.21'

37.11'

45.00'

CROSS REFERENCE	
Sub-Set Sheet No.	Description
22, 23	Lease and Easement Summary
20, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	11/25/13	REVISED PARCEL 250-LA TO 250-WL

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 216+00 TO STA. 221+00

ERI-250-0.00

164 / 178

663
677

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ERI-250-0.00
PERKINS TOWNSHIP, SEC. 2
ERIE COUNTY

860 ACRE TRACT
LOT 4

255
RUTA CARMELO, INC
AN OHIO CORPORATION
32-01503.000

DECK

BEATTY LANE
DEED VOL. 433, PG. 66

BEATTY LANE

HAMPTON INN

260
MILAN III COMPANY, LTD.,
AN OHIO LIMITED
LIABILITY COMPANY
32-04629.001

+35, Com. Drive, Remove

+93, Com. Drive, Remove

+13, Comm. Drive, Remove

DO NOT DISTURB

CONST. LIMITS

SAVE

REMOVE

ASPH.

CONC.

255-T

260-T

TO BE REMOVED (TAKE)

LANDSCAPE REMOVE IN R/W

6" ABND.

8" SAN.

2" G(QL-D)

TH 85

407

408

406

"OLD TANGENT LINE"
PER ERI-250-1.14

N 37° 8' 11" W

222 223 224 225

PC Sta. 222+87.33

℄ SURVEY & CONST.
US 250 (MILAN RD.)

OVERHEAD SIGNS

LANDSCAPE REMOVE IN R/W

(SEE SHEET 165)
MATCH LINE: STA. 221+00

MATCH LINE: STA. 226+00
(SEE SHEET 167)

TH 20

TH 86

47'-12"B @ 1.0%

DO NOT DISTURB EX. SIGN

254-T

254

BEST WESTERN SIGN

80'

MODICA HOSPITALITY, LLC,
AN OHIO LIMITED LIABILITY COMPANY
32-02199.000

860 ACRE TRACT
LOT 4

BEST WESTERN

PAIN & PLEASURE SIGN

DO NOT DISTURB

258-T

+71, Comm. Drive, Reconstruct

+39, Com. Drive, Remove

PAIN & PLEASURE #6015

258

PATIO

BICH THI HUYNH, TRUSTEE OF THE
BICH THI HUYNH DECLARATION OF TRUST,
UAW DATED THE 16TH OF FEBRUARY, 1996
32-02075.000

259-T

RES. #6019

259

PATRICIA A LAUX
32-03793.000

+19, Res. Drive, Reconstruct

250 BOGART CORNER LTD
32-03649.000

VACANT

261

261-T1

GAR.

CROSS REFERENCE

Sub-Set Sheet No.	Description
23, 24	Lease and Easement Summary
20, 21, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/22/14	REVISED DRIVE AT STA. 220+77, RT.
JJ	3/14/14	PAR. 255; REV. TOPO ADDED SIGNS TAKE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER

R/W REVIEWER

RIGHT OF WAY TOPO SHEET
STA. 221+00 TO STA. 226+00

ERI-250-0.00

165/178

664/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 2
860 ACRE TRACT LOT 4

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	01°15'38"	2824.79'	62.15'	62.15'	S36°30'22"E
R2	01°15'41"	2819.79'	62.08	62.08'	S36°30'21"E
R3	02°03'55"	2824.79'	101.83'	101.82	S34°50'35"E
R4	02°03'46"	2819.79'	101.52'	101.52'	S34°50'37"E
R5	01°54'33"	2824.79'	94.13'	94.12'	S32°51'21"E
R6	01°56'26"	2819.79'	95.51'	95.50'	S32°50'31E
R7	01°25'59"	2824.79'	70.65'	70.65'	S31°11'05"E
R8	01°24'12"	2819.79'	69.08'	69.07'	S31°10'12"E
R9	00°34'49"	2909.79	29.46'	29.46'	N36°50'48"W
R10	02°19'33"	2909.79	118.12	118.11	N32°28'45"W

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 221+00 TO STA. 226+00

ERI-250-0.00

166/178
665/677

CROSS REFERENCE

Sub-Set	Description
Sheet No.	
23, 24	Lease and Easement Summary
20, 21, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

860 ACRE TRACT LOT 4

255
RUTA CARMELO, INC
AN OHIO CORPORATION
32-01503.000

BEATTY LANE
DEED VOL. 433, PG. 66

BEATTY LANE

℄ S81°42'16"W

N51°55'00"E

260
MILAN III COMPANY, LTD.,
AN OHIO LIMITED
LIABILITY COMPANY
32-04629.001

407

408

406

254
MODICA HOSPITALITY, LLC,
AN OHIO LIMITED LIABILITY COMPANY
32-02199.000

254
MODICA HOSPITALITY, LLC,
AN OHIO LIMITED LIABILITY COMPANY
32-02199.000

259
PATRICIA A LAUX
32-03793.000

261
250 BOGART CORNER LTD
32-03649.000

258
BICH THI HUYNH, TRUSTEE OF THE
BICH THI HUYNH DECLARATION OF TRUST,
UAW DATED THE 16TH OF FEBRUARY, 1996
32-02075.000

℄ SURVEY & CONST.
US 250 (MILAN RD.)

"OLD TANGENT LINE"
PER ERI-250-1.14

ERI0250024

PC Sta. 222+87.33

MATCH LINE: STA. 221+00 (SEE SHEET 164)

MATCH LINE: STA. 226+00 (SEE SHEET 168)

S37°08'11"E 129.60'
+68.54 80.00' LT.
S52°51'49"W 30.00'
+68.54 50.00' LT.
S37°08'11"E 81.46'
+50.00 70.00' LT.
N52°51'49"E 20.00'
+50.00 50.00' LT.
S37°08'11"E 69.12'
11.51'
+18.36 70.17' LT.
15.29'
+21.75 55.28' LT.
11.67'
+29.60 70.32' LT.
17.04'
N37°08'11"W 212.14'
+87.32 45.00' LT.
+16.33 45.00' LT.
53.31'
10.07'
+61.29 55.04' LT.
S35°07'47"E 214.03'
+62.05 45.00' LT.
+78.34 45.00' LT.
N37°08'11"W 96.22'
+92.08
305.63'
N 37° 8' 11" W
+50.40 45.00' RT.
+59.34 40.00' RT.
5.03'
+58.82 45.00' RT.
+87.33 45.00' RT.
28.00'
28.52'
+50.36 40.00' RT.
5.00'
25.00'
+53.63 40.00' RT.
5.00'
13.00'
+53.54 45.00' RT.
+50.57 45.00' RT.
+49.09 40.00' RT.
5.23'
13.55'
S37°08'11"E 235.84'
S37°08'11"E 232.15'
N37°08'11"W 142.41'
+15.89 50.00' RT.
S52°51'49"W 15.00'
+15.89 65.00' RT.
N37°08'11"W 84.87'
+58.29 50.00' RT.
8.04'
+57.46 58.00' RT.
N36°47'22"W 82.99'
+41.55 58.00' RT.
N49°59'10"E 11.87'
+42.39 69.85' RT.
8.00'
+50.59 70.00' RT.
N34°50'49"W 100.00'
12.00'
+53.32 58.00' RT.
+53.10 70.00' RT.
N32°48'20"W 99.09'
+54.46 58.00' RT.
N30°57'12"W 82.35'
N41°49'09"E
S58°48'49"W
S53°41'49"W
S57°10'26"W
S01°

255K 255G 255J 254E,255I,258D, 259C,261D 254C 254D 255H,258C 258B 259A 260G,267G 260I,267I 260H,267H 260C,267C H1070 H1026 H1027 H1028

255-T 254-T 258-T 259-T 259B 260-T 261-T1

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10

Ex U Ex SH TMP

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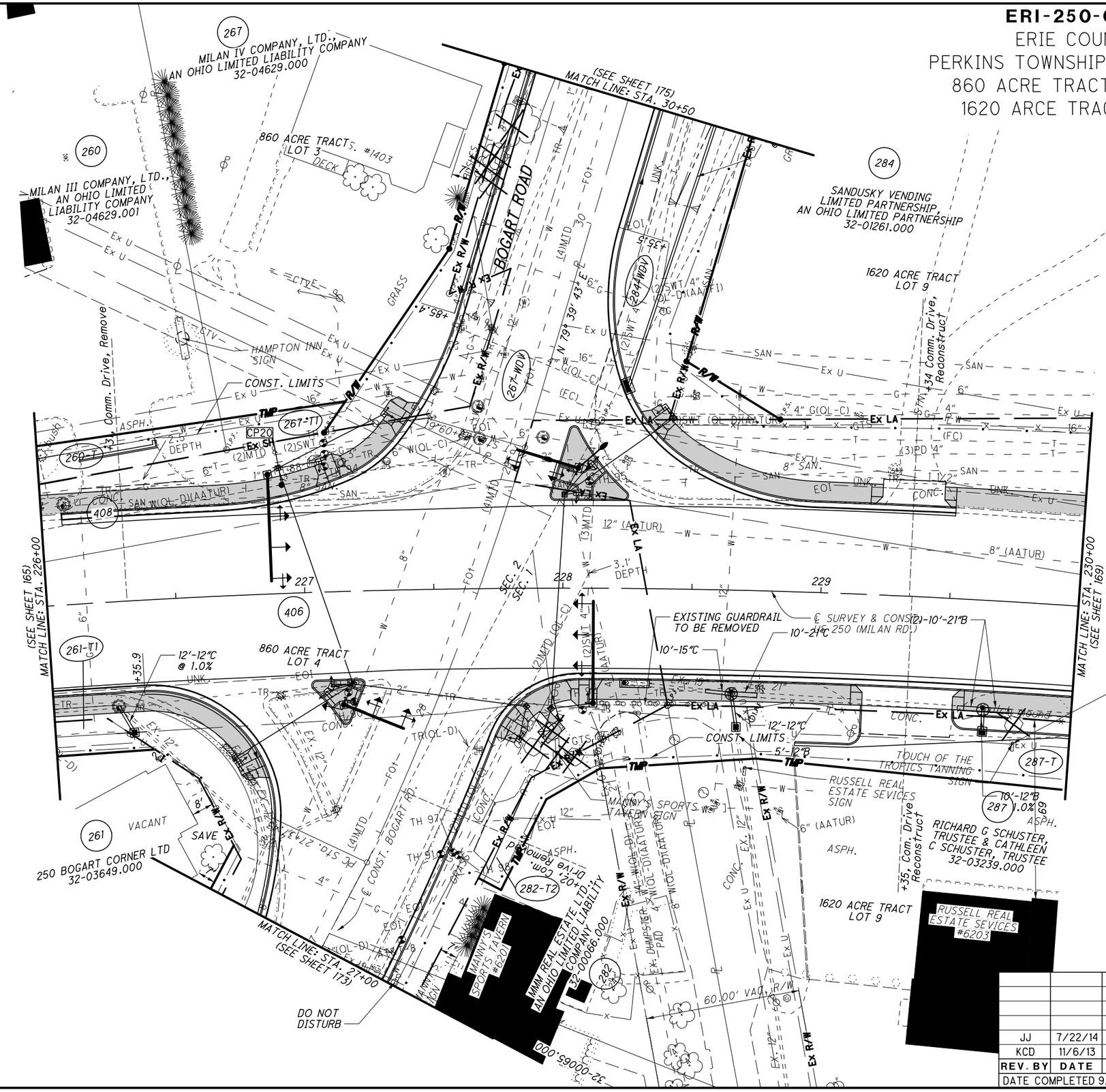
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 3&4
1620 ARCE TRACT LOT 9



℄ SURVEY BOGART RD
P.I. Sta. 28+23.68
Δ = 8° 36′ 32″ (LT)
Dc = 5° 00′ 00″
R = 1,145.92′
T = 86.25′
L = 172.18′
E = 3.24′
C = 172.02′
C.B. = N 83° 57′ 59″ E

CROSS REFERENCE

Sub-Set Sheet No.	Description
23-26	Lease and Easement Summary
21-24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/22/14	REVISED DRIVE AT STA. 229+36. RT.
KCD	11/6/13	Revised 282-T2 and 287-T

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 226+00 TO STA. 230+00

ERI-250-0.00

167 / 178

666 / 677

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RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R7	01°25'59"	2824.79'	70.65'	70.65'	S31°11'05"E
R8	01°24'12"	2819.79'	69.08'	69.07'	S31°10'12"E
R9	121°25'12"	55.00'	116.55'	95.94'	S30°14'30"E
R10	06°16'47"	2819.79'	309.06'	308.90'	S22°55'10"E
R11	00°29'53"	1145.92'	9.96'	9.96'	S79°54'39"W

ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 3&4
1620 ARCE TRACT LOT 9

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 226+00 TO STA. 230+00

ERI-250-0.00

267
MILAN IV COMPANY, LTD., AN OHIO LIMITED LIABILITY COMPANY 32-04629.000
860 ACRE TRACT LOT 3
260
MILAN III COMPANY, LTD., AN OHIO LIMITED LIABILITY COMPANY 32-04629.001
284
SANDUSKY VENDING LIMITED PARTNERSHIP, AN OHIO LIMITED PARTNERSHIP 32-01261.000
1620 ACRE TRACT LOT 9
BOGART ROAD
ORIG. ℄ BEATTY LANE
(SEE SHEET 176) MATCH LINE: STA. 30+50
(SEE SHEET 166) MATCH LINE: STA. 226+00
MATCH LINE: STA. 27+00 (SEE SHEET 174)
MATCH LINE: STA. 230+00 (SEE SHEET 170)
℄ SURVEY & CONST. US 250 (MILAN RD.)
℄ SURVEY & CONST. BOGART RD.
250 BOGART CORNER LTD 32-03649.000
RICHARD G SCHUSTER, TRUSTEE & CATHLEEN C SCHUSTER, TRUSTEE 32-03239.000
MMM REAL ESTATE LTD., AN OHIO LIMITED LIABILITY COMPANY 32-00066.000
32-00065.000
408
406
261
282
287
R7
R8
R9
R10
R11
H1068
H1069
H1000
H503
H502
CP20
RP26705 30+50.00 50.00' LT. N83°07'49"E 165.13'
RP26703 29+75.00 50.00' LT.
30+37.21 44.99' LT.
29+74.43 25.00' LT.
260D,261D
260E,261E
255E
284-WDV
267-WDV
29+59.34 50.49' RT. RP28402
STA. 228+82.37, 66.60' LT., ℄ SURVEY US 250 (MILAN RD.)= STA. 29+48.16, 91.77' RT., ℄ SURVEY BOGART RD. RP28401
286G
+70.45 68.36' LT.
+17.83 73.57' LT.
14.67'
48.83'
25.91'
10.90'
29+20.50
26.63' 53.14'
26.18'
43.03'
S04°49'15"W 42.76'
Ex LA
S27°06'45"E
260I,267I
260-T
267-T1
CP20
Ex SH
260H,267H
S35°07'47"E 214.03'
N37°08'11"W 96.22'
12.17'
31.45'
38.32'
+72.24 56.33' LT.
STA. 227+09.41, 61.70' LT., ℄ SURVEY US 250 (MILAN RD.)= STA. 28+91.61, 76.12' LT., ℄ SURVEY BOGART RD. RP26701
STA. 227+39.81, 66.49' LT., ℄ SURVEY US 250 (MILAN RD.)= STA. 29+06.95, 48.18' LT, ℄ SURVEY BOGART RD.
N01°34'56"W 48.71'
28+99.64
19.69'
400.71 38.08' LT.
S17°34'41"E 25.58'
+25.65 34.06' LT.
STA. 228+14.73, 65.15' LT., ℄ SURVEY US 250 (MILAN RD.)= STA. 29+28.19, 25.50' RT., ℄ SURVEY BOGART RD. ref. ERI-250-8.763 (5.45) STA. 108+607.392, 19.836 LT. (METRIC)
227
228
229
SEC. 2
SEC. 1
281K,282J
STA. 228+41.20, 45.00' RT., ℄ SURVEY US 250 (MILAN RD.)= STA. 28+83.97, 83.97' RT., ℄ SURVEY BOGART RD.
80.57'
261-T1
R7
R8
+20.74 40.00' RT.
+20.74 45.00' RT.
13.37'
261E
+31.64 53.00' RT.
8.39'
N06°23'52"E 42.01'
N30°57'12"W 82.35'
+38.51 58.00' RT.
20.25'
N35°19'58"E 35.44'
261C
27+19.08 48.71' LT.
6.06'
27+15.67 43.70' LT.
S89°03'03"E 73.70'
77.36'
STA. 226+55.19, 70.00' RT. ℄ SURVEY US 250 (MILAN RD.)= STA. 27+39.32, 72.99' LT., ℄ SURVEY BOGART RD.
261-T2
27+49.81 41.76' RT.
27+49.29 51.59' RT.
282-T2
27+06.22 0.00' RT. 41.45'
S89°10'43"E 91.80'
N00°49'17"E 9.85'
27+10.77 41.20' RT.
281B,282B, 287A
S05°12'30"E
262.72'
S88°54'51"E 194.56'
+12.76 63.26' RT.
31.47'
S54°53'38"E 9.88'
281J,282I
+92.05 45.00' RT.
26.35'
59.82'
N30°28'45"W 30.21'
+04.83 68.50' RT.
N56°38'41"W 24.14'
+45.79 67.54' RT.
+86.77, 53.63' RT.
S89°43'02"W 39.26'
43.95'
+72.31 45.00' RT.
279A
287D
287I
R10
Ex LA
20.44'
287-T
+76.61 65.00' RT.
N21°04'05"W 334.58' 284.52'
281H,282F
60.00' VAC. R/W
N52°40'56"E
S52°40'56"W 131.22'
154.21'
+38.00 183.63' RT.
N05°12'30"W 35.42'
287B
73.52
6.01' RT.
1620 ACRE TRACT LOT 9
℄ SURVEY BOGART RD
P.I. Sta. 28+23.68
Δ = 8° 36' 32" (LT)
Dc = 5° 00' 00"
R = 1,145.92'
T = 86.25'
L = 172.18'
E = 3.24'
C = 172.02'
C.B. = N 83° 57' 59" E

CROSS REFERENCE

Sub-Set Sheet No.	Description
23-26	Lease and Easement Summary
21-24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
KCD	11-06-13	Revise 282-T2 and 287-T
JJ	10/28/13	PAR. 284-WDV; ADD DIST. TO LAST COURSE
DATE COMPLETED 9/12/13		

168/178
667/677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1
1620 ARCE TRACT LOT 9

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 230+00 TO STA. 235+00

ERI-250-0.00

169/178
668/677

FAIRFIELD INN
FAIRFIELD INN SIGN
PILES
284
SANDUSKY VENDING LIMITED PARTNERSHIP
AN OHIO LIMITED PARTNERSHIP
32-01261.000
END ACQUISITION STA. 232+19.45
END WORK STA. 234+00.00
1620 ACRE TRACT LOT 9
64'
3"
ASPH.
SAN
Ex U
Ex LA
P
G
U.G.
W
8" SAN.
TRAFFIC BOX
UNK.
CONST. LIMITS
EXIT
ENT
+35, Com. Drive, No Work
+35, Com. Drive, No Work
6.5% 18'-0" BOX CULVERT
8" (ABAN.)
"OLD TANGENT LINE" PER ERI-250-1.14
231
232
233
234
℄ SURVEY & CONST. US 250 (MILAN RD.)
S 17° 39' 53" E
PT Sta. 232+60.92
EX. 34" WATER NASA
(SEE SHEET 167) MATCH LINE: STA. 230+00
REMOVE LANDSCAPING
DO NOT DISTURB
DO NOT DISTURB
REMOVE LANDSCAPING
EX. 21" mulch
EX. 24"
mound
EX. 24" GRASS
EX. 24"
CONC.
ITALIAN RESTAURANT SIGN
287-T
TMP
CONST. LIMITS
ASPH.
+33, Com. Drive Reconstruct
+66, Com. Drive Reconstruct
COMMERCIAL SIGN 32-04001.000
DO NOT DISTURB
ASPH.
STN.
287
RICHARD G SCHUSTER, TRUSTEE
& CATHLEENE C SCHUSTER, TRUSTEE
32-03239.000
TOUCH OF THE TROPICS TANNING #6205
WEAZY'S ITALIAN RESTAURANT #6207
WEAZY'S ITALIAN RESTAURANT BANQUET ROOM #6209
LINDSLEY DITCH
290
CAMCO PROPERTIES LLC
32-04001.002
DENSE VEGETATION
1620 ACRE TRACT LOT 9
SHED
6211 MILAN RD.

CROSS REFERENCE

Sub-Set Sheet No.	Description
25, 26	Lease and Easement Summary
22, 23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1
1620 ARCE TRACT LOT 9

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R10	06°16'47"	2819.79'	309.06'	308.90'	S22°55'10"E

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

284E

END ACQUISITION STA. 232+19.45

1620 ACRE TRACT LOT 9

END WORK STA. 234+00.00

284C, 286B

284

SANDUSKY VENDING LIMITED PARTNERSHIP
AN OHIO LIMITED PARTNERSHIP
32-01261.000

2841

+90.11
87.00' LT.

284H

+25.16
75.05' LT.

P.O.T.

H1002

Ex LA — S22°17'15"E — Ex LA — S06°16'08"E — Ex LA

284K

Ex U

(SEE SHEET 168)
MATCH LINE: STA. 230+00

"OLD TANGENT LINE"
PER ERI-250-1.14

230 231 232 233 234

℄ SURVEY & CONST.
US 250 (MILAN RD.)

S 17° 39' 53" E

ERI0250025

PT Sta.
232+60.92

287D

2871

R10

+55.18
45.00' RT.

14.01'

Ex LA — 66.44' — Ex LA — 52.43' — Ex LA

+68.65
49.55' RT.

+19.45
66.04' RT.

3.96'

287-T

N21°04'05"W 334.58'
284.52'

TMP

TMP

50.06'

S00°40'23"E

Ex LA — S20°56'01"E — Ex LA — Ex LA

+68.13
71.80' RT.

+19.43
70.00' RT.

+65.13
80.00' RT.

287

RICHARD G SCHUSTER, TRUSTEE
& CATHLEENE C SCHUSTER, TRUSTEE
32-03239.000

32-04001.000

287J

290

CAMCO PROPERTIES LLC
32-04001.002

S71°48'40"W

S71°48'40"W

1620 ACRE TRACT
LOT 9

CROSS REFERENCE

Sub-Set Sheet No.	Description
25, 26	Lease and Easement Summary
22, 23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
KCD	11-06-13	Revise Curve R10

DATE COMPLETED 9/12/13

R/W DESIGNER JJ
R/W REVIEWER DAP

PID NO. 88407

RIGHT OF WAY BOUNDARY SHEET
STA. 230+00 TO STA. 235+00

ERI-250-0.00

170 / 178

669
677

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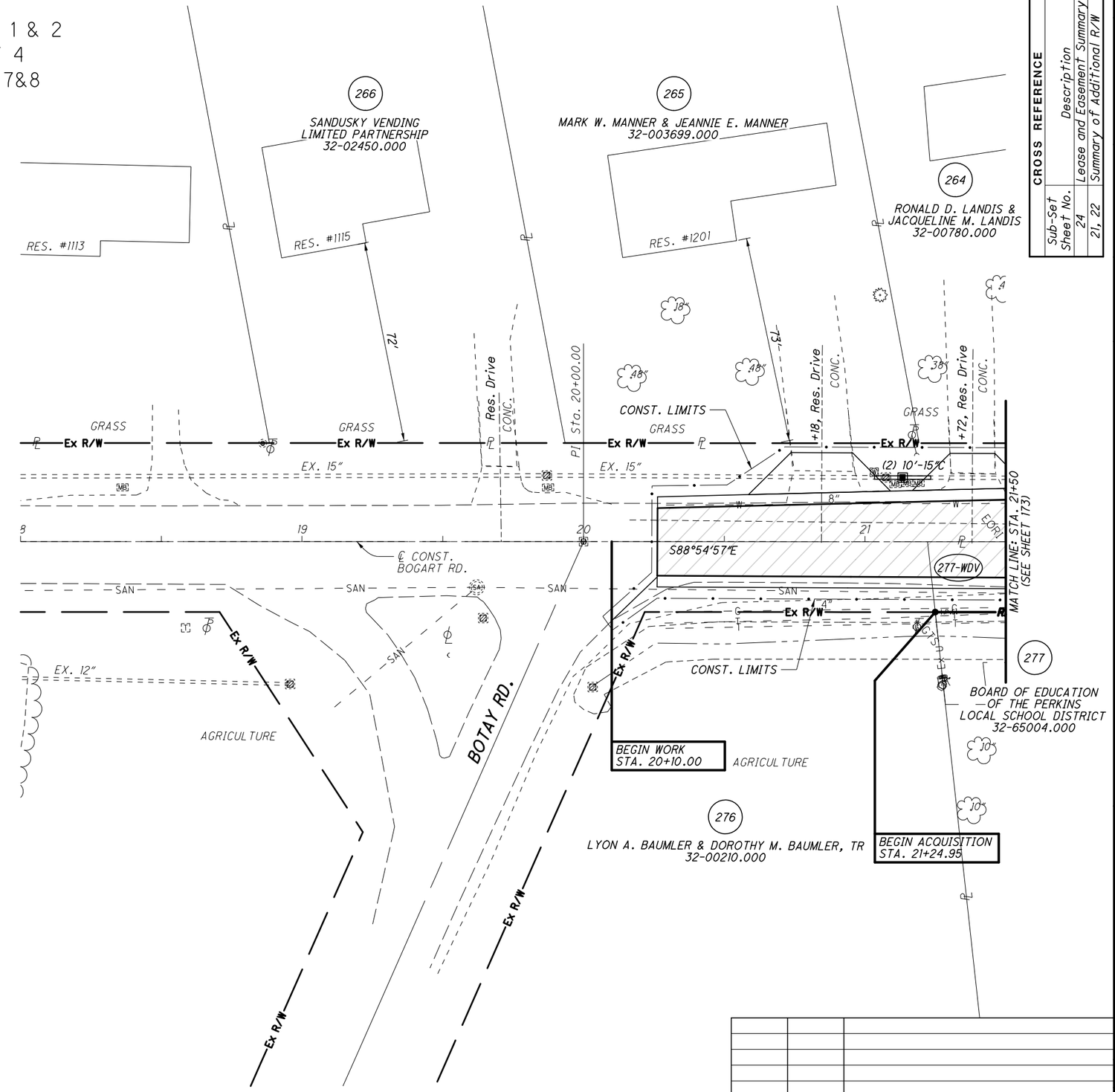
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 4
1620 ARCE TRACT LOT 7&8



CROSS REFERENCE	
Sub-Set Sheet No.	Description
24	Lease and Easement Summary
21, 22	Summary of Additional R/W

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 17+00 TO STA. 21+50

ERI-250-0.00

171 / 178

670 / 677

REV. BY	DATE	DESCRIPTION
JJ	10/30/13	PAR 277; CHANGED TO A WDV TAKE

DATE COMPLETED 9/12/13

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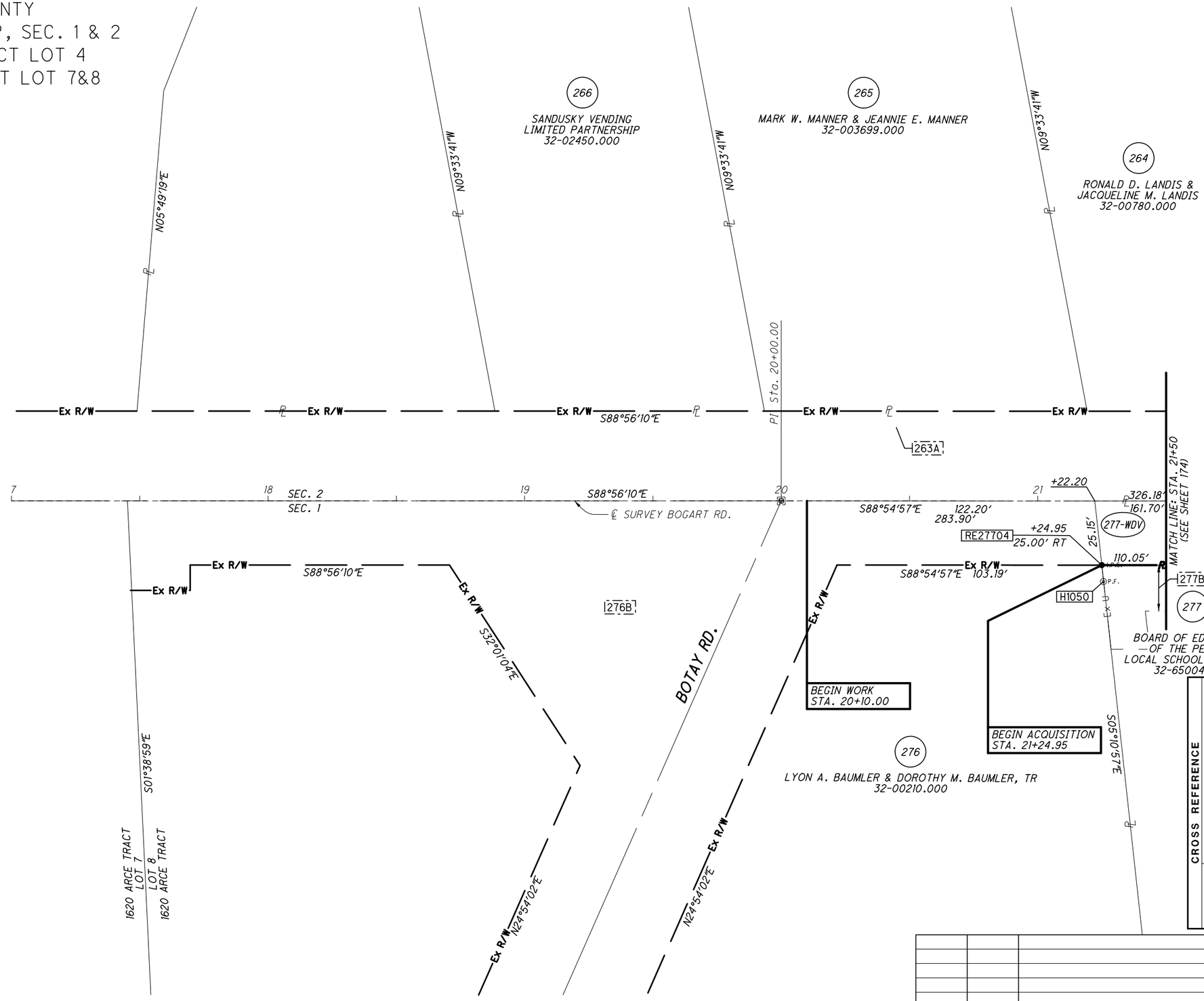
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 4
1620 ARCE TRACT LOT 7&8



CROSS REFERENCE

Sub-Set Sheet No.	Description
24	Lease and Easement Summary
21, 22	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	10/30/13	PAR 277; CHANGED TO A WDV TAKE

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 17+00 TO STA. 21+50

ERI-250-0.00

172 / 178

671 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 4
1620 ARCE TRACT LOT 8&9

RES. #1211
RES. #1205
RES. #1215
RES. #1219
RES. #1217

264 RONALD D. LANDIS & JACQUELINE M. LANDIS 32-00780.000
32-00781.000
263 GENE R DAGIAU & JANICE E DAGIAU, CO-TRUSTEES OF THE DAGIAU FAMILY TRUST DATED AUGUST17, 2007 32-00789.000
263 GENE R DAGIAU & JANICE E DAGIAU, CO-TRUSTEES OF THE DAGIAU FAMILY TRUST DATED AUGUST 17, 2007 32-00302.000
262 PAUL L DECKER & SHIRLEY F DECKER, TRUSTEES OF THE DECKER FAMILY REVOCABLE LIVING TRUST DATED 3/4/94 32-00855.000
259 PATRICIA A. JAUX 32-03793.000
261 250 BOGART CORNER LTD 32-03645.000
261 250 BOGART CORNER LTD 32-03649.000
277 BOARD OF EDUCATION OF THE PERKINS LOCAL SCHOOL DISTRICT 32-65004.000
279 ANGELA A BIANCO 32-03630.001
280 ERIE COUNTY LAND REUTILIZATION CORP. 32-02432.000
281 DONNA J YOST 32-00560.000
282 MMM REAL ESTATE LTD., AN OHIO LIMITED LIABILITY COMPANY 32-00065.000

860 ARCE TRACT LOT 4
1620 ACRE TRACT LOT 8
1620 ARCE TRACT LOT 9
SEC. 1

(SEE SHEET 171) MATCH LINE: STA. 21+50
(SEE SHEET 167) MATCH LINE: STA. 27+00

N. LINE SEC. 2
S. LINE SEC. 2
N. LINE SEC. 1
℄ SURVEY BOGART RD.
℄ CONST. BOGART RD.
S 88° 54' 57" E

Ex R/W
TMP
R/W
CONST. LIMITS
204'-4 CONST. LIMITS
Ex U
Ex G
Ex T
Ex OHP
Ex W
Ex 8"W
Ex 12"W
Ex 6"W
Ex 4"G
Ex 6"G
Ex 12"G
Ex 8"SAN
Ex 4"SAN
Ex 12"SAN
Ex 15"
Ex 12"
Ex 6"
(2) 10'-15"C
10'-15"B
10'-12"B
52'-12"B @ 1.0%
86'-15"C @ 2.0%
277-WDV
279-WDV
280-WDV
263-T
262-T
261-T1
261-T2
282-T1
406
CLEAR BRUSH WITHIN R/W
DO NOT DISTURB TREE
EXIST. STONE WALL DO NOT DISTURB
+47, Res. Drive CONC.
+75, Res. Drive ASPH.
+91, Res. Drive ASPH.
+67, Res. Drive CONC
+96, Com. Drive ASPH.
+82, Com. Drive Removed
+51, Com. Drive
+65, Com. Drive, Removed
+19, Res. Drive, Reconstruct
186'-4" UD
39'-4" UD
GRASS
ASPH.
CONC.
DECK
GAR.
VACANT
STONE
SANNY'S SPORTS TAVERN #6201
(9)MTDIFO(QL-D)
(4)MTD (QL-D)
(4)MTD
(12)MTD
FO
SAN
TH
LIGHTS
142'
70'
89'
59'

CROSS REFERENCE	
Sub-Set Sheet No.	Description
23-25	Lease and Easement Summary
21, 22, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/22/14	REVISED DRIVES AT PARCEL 261
JJ	5/22/14	PAR. 280; NEW OWNERSHIP NAME
JJ	10/30/13	PAR. 277 & 279 - CHANGED TO WDV TAKES

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407
R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 21+50 TO STA. 27+00
ERI-250-0.00

173 / 178
672 / 677

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ERI-250-0.00
PERKINS TOWNSHIP, SEC. 1 & 2
ERIE COUNTY

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R9	121°25'136"	55.00'	116.55'	95.94'	S30°14'30"E

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 27+00 TO STA. 21+50

ERI-250-0.00

174 / 178

673 / 677

264 RONALD D. LANDIS & JACQUELINE M. LANDIS 32-00780.000

263 GENE R DAGIAU & JANICE E DAGIAU, CO-TRUSTEES OF THE DAGIAU FAMILY TRUST DATED AUGUST17, 2007 32-00789.000

263 GENE R DAGIAU & JANICE E DAGIAU, CO-TRUSTEES OF THE DAGIAU FAMILY TRUST DATED AUGUST 17, 2007 32-00302.000

262 PAUL L DECKER & SHIRLEY F DECKER, TRUSTEES OF THE DECKER FAMILY REVOCABLE LIVING TRUST DATED 3/4/94 32-00855.000

860 ARCE TRACT LOT 4

261 250 BOGART CORNER LTD 32-03645.000

32-03649.000

277 BOARD OF EDUCATION OF THE PERKINS LOCAL SCHOOL DISTRICT 32-65004.000

279 ANGELA A BIANCO 32-03630.001

280 ERIE COUNTY LAND REUTILIZATION CORP. 32-02432.000

281 DONNA J YOST 32-00560.000

282 MMM REAL ESTATE LTD., AN OHIO LIMITED LIABILITY COMPANY 32-00065.000

406

SEC. 1

SEC. 2

1620 ACRE TRACT LOT 8

LOT 9 1620 ARCE TRACT

S03°02'19"W 32-00781.000

S03°03'34"W

S01°08'20"W

N41°49'36"E 360.69'

S07°02'07"E

S05°01'31"E

S04°59'04"E

N05°04'42"W

S05°01'39"E

S05°02'50"E

SEC. LINE

I.P.F. / P.F. / SV11692 RESET / SV11582 / H1028 / H1027

Ex R/W

TMP

Ex U

℄ SURVEY BOGART RD.

S 88° 54' 57" E

263-T 262-T 261-T2 277-WDV 279-WDV 263A 277B 277C 277D 280B 280C 281E 281F,282H 282-T1 280-WDV

RP27701 RP27702 RP27703 RP28001 RP28002

H1009 DND

281B,282B, 287A

(SEE SHEET 172) MATCH LINE: STA. 21+50

(SEE SHEET 168) MATCH LINE: STA. 27+00

CROSS REFERENCE

Sub-Set Sheet No.	Description
23-25	Lease and Easement Summary
21, 22, 24	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	5/22/14	PAR. 280; NEW OWNERSHIP NAME
JJ	10/30/13	PAR. 277 & 279; CHANGED TO WDV TAKES

DATE COMPLETED 9/12/13

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 3
1620 ARCE TRACT LOT 9&10

267
MILAN IV COMPANY, LTD.,
AN OHIO LIMITED LIABILITY COMPANY
32-04629.000

268
JOHN M MASTERSON &
MARY G MASTERSON
32-00487.000

LOT 15
LOT 14
RES. #4715
GALLOWAY ROAD ESTATES
SUBDIVISION NO. 2
PLAT VOL. 20, PG. 29

KINGSLEY CIRCLE WEST

288
DANIEL L BRENNAN
32-00434.000
32-00431.000

TO BE RELOCATED
BY OWNER OUTSIDE
OF R/W

DO NOT DISTURB
(3) TREES

+22, Res. Drive
267-T2
44'-12"C
@ 2.0%
76'-36"C
@ 0.20%
CONST. LIMITS
114'-12"B/C
@ 3.6%
28'-12"B
9'-12"B
@1.0%
67'-4" UD
121'-4" UD
16'-36"B/C
@ 2.66%
12'-4" UD
135'-4" UD
215'-4" UD
268-WDV
267-WDV
50'-12"B
@ 0.76%
37'-36"B
@ 0.20%
165'-4" UD
134'-4" UD
134'-4" UD
13'-24"B/C @ 0.20%
200'-4" UD
284-WDV
285-WDV
286-WDV
8" (ABANDON)
S27° 617.83'
N 79° 39' 43" E
℄ SURVEY BOGART RD.
DO NOT DISTURB
22'-12" B/C
@ 0.22%
SOUTH @ POLE
SEC. LINE
DO NOT DISTURB
+18, Res. Drive
Reconstruct
17'-12"C @ 1.0%
10'-24"C
CONST. LIMITS
DO NOT DISTURB
SAVE
APARTMENT BLDG.

(SEE SHEET 167)
MATCH LINE: STA. 30+50

(SEE SHEET 177)
MATCH LINE: STA. 35+50

284
SANDUSKY VENDING LIMITED PARTNERSHIP
AN OHIO LIMITED PARTNERSHIP
32-01261.000

285
SCOTT J MULARONI &
BECKY A MULARONI
32-01677.000

286
SHAKER VILLAGE RENTAL
COMMUNITIES LTD
AN OHIO LIMITED LIABILITY
COMPANY
32-00429.000

SEC. 2, 860 ACRE TRACT
SEC. 1, 1620 ACRE TRACT

END ACQUISITION
STA. 34+50.00

32-00430.001

LOT 9
LOT 10

GRASS
ASPH.
EX. 12" CONC.
EX. 8" CONC.
EX. 6" CONC.
EX. 4" CONC.
EX. 2" CONC.
EX. 1" CONC.
EX. 12" CMP
EX. 8" CMP
EX. 6" CMP
EX. 4" CMP
EX. 2" CMP
EX. 1" CMP
EX. 12" CPP
EX. 8" CPP
EX. 6" CPP
EX. 4" CPP
EX. 2" CPP
EX. 1" CPP
EX. 12" PVC
EX. 8" PVC
EX. 6" PVC
EX. 4" PVC
EX. 2" PVC
EX. 1" PVC
EX. 12" DIP
EX. 8" DIP
EX. 6" DIP
EX. 4" DIP
EX. 2" DIP
EX. 1" DIP
EX. 12" RCP
EX. 8" RCP
EX. 6" RCP
EX. 4" RCP
EX. 2" RCP
EX. 1" RCP
EX. 12" VCP
EX. 8" VCP
EX. 6" VCP
EX. 4" VCP
EX. 2" VCP
EX. 1" VCP
EX. 12" CSP
EX. 8" CSP
EX. 6" CSP
EX. 4" CSP
EX. 2" CSP
EX. 1" CSP
EX. 12" CIP
EX. 8" CIP
EX. 6" CIP
EX. 4" CIP
EX. 2" CIP
EX. 1" CIP
EX. 12" CLAY
EX. 8" CLAY
EX. 6" CLAY
EX. 4" CLAY
EX. 2" CLAY
EX. 1" CLAY
EX. 12" ABS
EX. 8" ABS
EX. 6" ABS
EX. 4" ABS
EX. 2" ABS
EX. 1" ABS
EX. 12" UNK
EX. 8" UNK
EX. 6" UNK
EX. 4" UNK
EX. 2" UNK
EX. 1" UNK
EX. 12" SAN
EX. 8" SAN
EX. 6" SAN
EX. 4" SAN
EX. 2" SAN
EX. 1" SAN
EX. 12" STM
EX. 8" STM
EX. 6" STM
EX. 4" STM
EX. 2" STM
EX. 1" STM
EX. 12" COMB
EX. 8" COMB
EX. 6" COMB
EX. 4" COMB
EX. 2" COMB
EX. 1" COMB
EX. 12" W
EX. 8" W
EX. 6" W
EX. 4" W
EX. 2" W
EX. 1" W
EX. 12" G
EX. 8" G
EX. 6" G
EX. 4" G
EX. 2" G
EX. 1" G
EX. 12" T
EX. 8" T
EX. 6" T
EX. 4" T
EX. 2" T
EX. 1" T
EX. 12" FO
EX. 8" FO
EX. 6" FO
EX. 4" FO
EX. 2" FO
EX. 1" FO
EX. 12" OH
EX. 8" OH
EX. 6" OH
EX. 4" OH
EX. 2" OH
EX. 1" OH
EX. 12" UG
EX. 8" UG
EX. 6" UG
EX. 4" UG
EX. 2" UG
EX. 1" UG
EX. 12" E
EX. 8" E
EX. 6" E
EX. 4" E
EX. 2" E
EX. 1" E
EX. 12" TV
EX. 8" TV
EX. 6" TV
EX. 4" TV
EX. 2" TV
EX. 1" TV
EX. 12" TEL
EX. 8" TEL
EX. 6" TEL
EX. 4" TEL
EX. 2" TEL
EX. 1" TEL
EX. 12" GAS
EX. 8" GAS
EX. 6" GAS
EX. 4" GAS
EX. 2" GAS
EX. 1" GAS
EX. 12" FIBER
EX. 8" FIBER
EX. 6" FIBER
EX. 4" FIBER
EX. 2" FIBER
EX. 1" FIBER
EX. 12" CATV
EX. 8" CATV
EX. 6" CATV
EX. 4" CATV
EX. 2" CATV
EX. 1" CATV
EX. 12" TRAFFIC
EX. 8" TRAFFIC
EX. 6" TRAFFIC
EX. 4" TRAFFIC
EX. 2" TRAFFIC
EX. 1" TRAFFIC
EX. 12" SIGNAL
EX. 8" SIGNAL
EX. 6" SIGNAL
EX. 4" SIGNAL
EX. 2" SIGNAL
EX. 1" SIGNAL
EX. 12" ELEC
EX. 8" ELEC
EX. 6" ELEC
EX. 4" ELEC
EX. 2" ELEC
EX. 1" ELEC
EX. 12" POWER
EX. 8" POWER
EX. 6" POWER
EX. 4" POWER
EX. 2" POWER
EX. 1" POWER
EX. 12" UTIL
EX. 8" UTIL
EX. 6" UTIL
EX. 4" UTIL
EX. 2" UTIL
EX. 1" UTIL
EX. 12" MISC
EX. 8" MISC
EX. 6" MISC
EX. 4" MISC
EX. 2" MISC
EX. 1" MISC
EX. 12" TEST
EX. 8" TEST
EX. 6" TEST
EX. 4" TEST
EX. 2" TEST
EX. 1" TEST
EX. 12" SAMPLE
EX. 8" SAMPLE
EX. 6" SAMPLE
EX. 4" SAMPLE
EX. 2" SAMPLE
EX. 1" SAMPLE
EX. 12" DRAIN
EX. 8" DRAIN
EX. 6" DRAIN
EX. 4" DRAIN
EX. 2" DRAIN
EX. 1" DRAIN
EX. 12" WATER
EX. 8" WATER
EX. 6" WATER
EX. 4" WATER
EX. 2" WATER
EX. 1" WATER
EX. 12" GAS
EX. 8" GAS
EX. 6" GAS
EX. 4" GAS
EX. 2" GAS
EX. 1" GAS
EX. 12" FIBER
EX. 8" FIBER
EX. 6" FIBER
EX. 4" FIBER
EX. 2" FIBER
EX. 1" FIBER
EX. 12" CATV
EX. 8" CATV
EX. 6" CATV
EX. 4" CATV
EX. 2" CATV
EX. 1" CATV
EX. 12" TRAFFIC
EX. 8" TRAFFIC
EX. 6" TRAFFIC
EX. 4" TRAFFIC
EX. 2" TRAFFIC
EX. 1" TRAFFIC
EX. 12" SIGNAL
EX. 8" SIGNAL
EX. 6" SIGNAL
EX. 4" SIGNAL
EX. 2" SIGNAL
EX. 1" SIGNAL
EX. 12" ELEC
EX. 8" ELEC
EX. 6" ELEC
EX. 4" ELEC
EX. 2" ELEC
EX. 1" ELEC
EX. 12" POWER
EX. 8" POWER
EX. 6" POWER
EX. 4" POWER
EX. 2" POWER
EX. 1" POWER
EX. 12" UTIL
EX. 8" UTIL
EX. 6" UTIL
EX. 4" UTIL
EX. 2" UTIL
EX. 1" UTIL
EX. 12" MISC
EX. 8" MISC
EX. 6" MISC
EX. 4" MISC
EX. 2" MISC
EX. 1" MISC
EX. 12" TEST
EX. 8" TEST
EX. 6" TEST
EX. 4" TEST
EX. 2" TEST
EX. 1" TEST
EX. 12" SAMPLE
EX. 8" SAMPLE
EX. 6" SAMPLE
EX. 4" SAMPLE
EX. 2" SAMPLE
EX. 1" SAMPLE
EX. 12" DRAIN
EX. 8" DRAIN
EX. 6" DRAIN
EX. 4" DRAIN
EX. 2" DRAIN
EX. 1" DRAIN
EX. 12" WATER
EX. 8" WATER
EX. 6" WATER
EX. 4" WATER
EX. 2" WATER
EX. 1" WATER

CROSS REFERENCE

Sub-Set Sheet No.	Description
24-26	Lease and Easement Summary
21-23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION
JJ	7/21/14	REVISED DRIVE AT PARCEL 285

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 30+50 TO STA. 35+50

ERI-250-0.00

175 / 178
674 / 677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 3
1620 ARCE TRACT LOT 9&10

267
MILAN IV COMPANY, LTD.,
AN OHIO LIMITED LIABILITY COMPANY
32-04629.000

268
JOHN M MASTERSON &
MARY G MASTERSON
32-00487.000

GALLOWAY ROAD ESTATES
SUBDIVISION NO. 2
PLAT VOL. 20, PG. 29

288
DANIEL L BRENNAN
32-00434.000
32-00431.000

284
SANDUSKY VENDING LIMITED PARTNERSHIP
AN OHIO LIMITED PARTNERSHIP
32-01261.000

285
SCOTT J MULARONI &
BECKY A MULARONI
32-01677.000

286
SHAKER VILLAGE RENTAL
COMMUNITIES LTD
AN OHIO LIMITED LIABILITY
COMPANY
32-00429.000

32-00430.001

KINGSLEY CIRCLE WEST

LOT 15
LOT 14
LOT 9
LOT 10

S01°51'36"E
S05°59'13"E
M 80.00 LIN

Ex R/W
Ex U
℄ SURVEY BOGART RD.

267-T2
N79°39'43"E 100.00'
TMP
N20°37'32"E 29.15'
R/W N67°23'50"E 117.69'
+65.00 75.00' LT.
RP26801
87.46'
+52.46 75.00' LT.
RP26708
260J,267J
267-WDV
260E,261E
260D,267D
+50.00 50.00' LT.
N83°07'49"E 165.13'
+02.04 35.00' LT.
44.12' S87°14'14"E
+45.01 25.00' LT.
+45.76 30.00' LT.
268-WDV
268B
12.54'
+65.00 75.00' LT. RP26801
54.42' S79°54'19"E
+16.00 56.00' LT. RP26802
49.82' S89°55'50"E
RP26803 33+65.00 47.00' LT.
RP26804 34+19.89 47.00' LT.
54.89' N79°39'43"E
R1
33+96.21 30.00' LT.
50.55'
45.50'
25.28'
30.33'
S79°39'43"W 150.45'
306.44'
320.78
126.67'
96.39'
+26.94
+41.28
+53.61
48.78'
70.20'
285B
285-WDV
+85.38 30.00' RT.
S79°39'43"W 71.74'
+57.11 30.00' RT.
48.48'
30.20'
18.28'
92.89'
30.00'
S10°20'17"E
+50.00
N 79° 39' 43" E
34+50.00 30.00' RT. RP28601
N79°39'43"E
285D
286-WDV
+59.24 50.00' RT. RP28405
S68°21'07"W 92.56'
S68°21'07"W 111.40'
64.81'
S62°57'47"W
+23.24 48.64' RT.
21.42'
22.14'
+66.00 53.20' RT.
100.12'
S82°31'28"W
+02.04 55.00' RT.
+02.05 50.00' RT.
S79°27'56"W 166.30'
+50.33 50.18' RT. RP28406
N88°54'57"W 100.09'
286G
RP28403 +48.44 70.00' RT.
S79°39'43"W 73.18'
28.38'
+50.00 70.00' RT. RP28402
+21.62 70.00' RT. RP28405
END ACQUISITION
STA. 34+50.00

(SEE SHEET 168)
MATCH LINE: STA. 30+50

(SEE SHEET 178)
MATCH LINE: STA. 35+50

CROSS REFERENCE

Sub-Set Sheet No.	Description
24-26	Lease and Easement Summary
21-23	Summary of Additional R/W

RIGHT OF WAY CURVE DATA

CURVE	CENTRAL ANGLE	RADIUS	CURVE LENGTH	CHORD LENGTH	CHORD BEARING
R1	71°20'13"	25.00'	31.13'	29.15'	S43°59'36"W

REV. BY	DATE	DESCRIPTION
JJ	10/28/13	PAR. 285 & 286; COR. DIST. & STA. ON ℄
JJ	10/28/13	PAR 268; CORRECTED CENT. ANGLE ON R1

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 30+50 TO STA. 35+50

ERI-250-0.00

176 / 178
675
677

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ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 3
1620 ARCE TRACT LOT 10

860 ACRE TRACT
LOT 3

GALLOWAY ROAD ESTATES
SUBDIVISION NO. 1
PLAT VOL. 20, PG. 9

288
DANIEL L BRENNAN
32-00434.000
32-00431.000

LOT 10 | LOT 9 | LOT 8

+24, Res. Drive
CONC.
DO NOT DISTURB
DO NOT DISTURB
143'-4" UD
CONST. LIMITS
Ex R/W
ASPH.
STN.
SIN.
FOt
G
T
W
136 | 37 | 38 | 39 +00.6
S 79° 44' 48" W
N 79° 39' 43" E
℄ SURVEY BOGART RD.
(SEE SHEET 175)
MATCH LINE: STA. 35+50
N79°39'43"E
+54, Res. Drive
SAN
Ex U
12"
24"
6
39'
30.39'
95'
CONST. LIMITS
END WORK
STA. 36+60.00

286
SHAKER VILLAGE RENTAL
COMMUNITIES LTD
32-00429.000

APARTMENT BLDG.
APARTMENT BLDG.
APARTMENT BLDG.

860 ACRE TRACT
LOT 3

SEC. 2, 860 ACRE TRACT
SEC. 1, 1620 ACRE TRACT

1620 ACRE TRACT
LOT 10

SEC. LINE

S01°06'02"E

CROSS REFERENCE

Sub-Set Sheet No.	Description
26	Lease and Easement Summary
23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY TOPO SHEET
STA. 35+50 TO STA. 39+00

ERI-250-0.00

177 / 178
676 / 677

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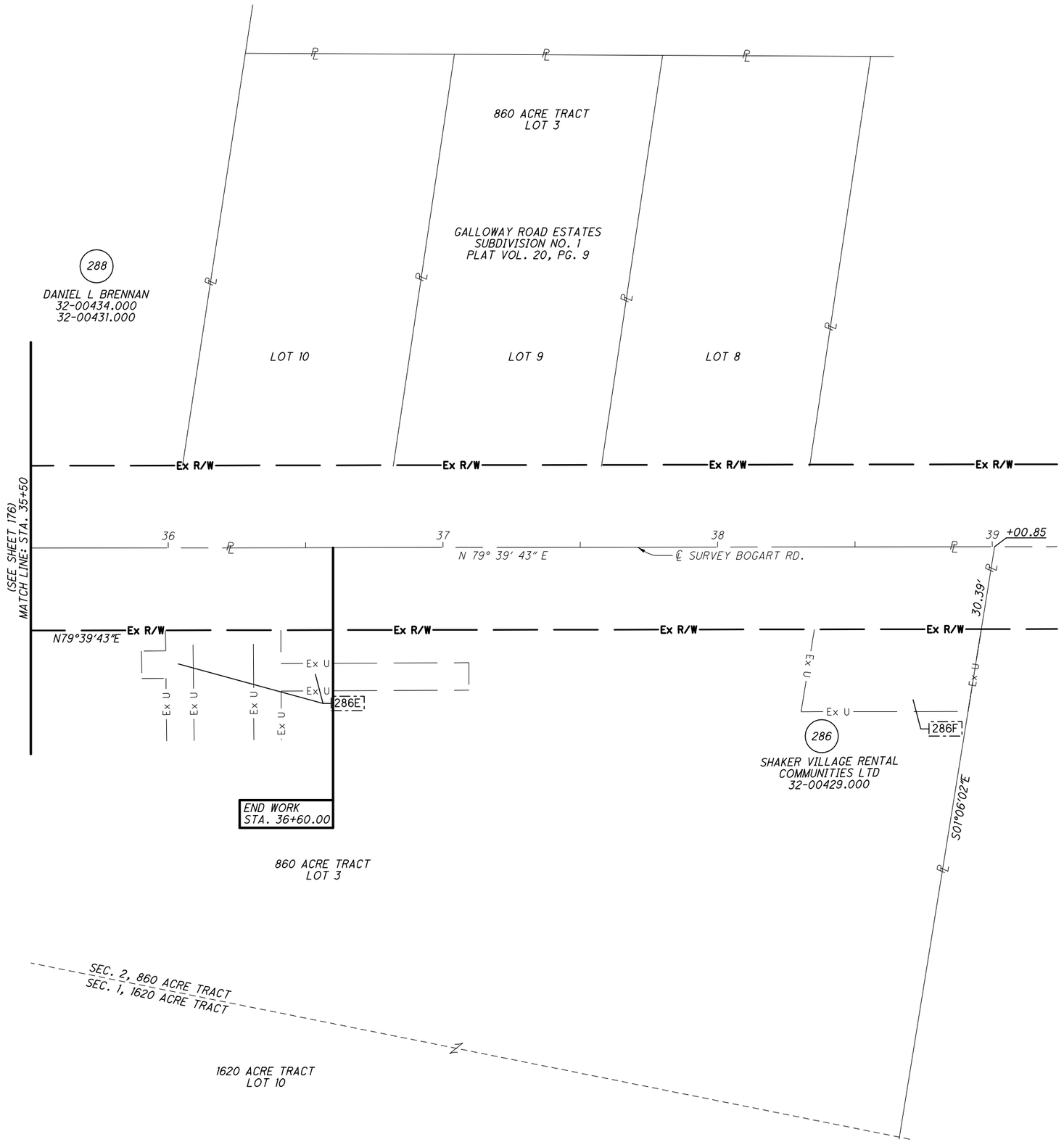
ERI-250-0.00
ERIE COUNTY
PERKINS TOWNSHIP, SEC. 1 & 2
860 ACRE TRACT LOT 3
1620 ARCE TRACT LOT 10



CROSS REFERENCE

Sub-Set Sheet No.	Description
26	Lease and Easement Summary
23	Summary of Additional R/W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 9/12/13

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 88407

R/W DESIGNER JJ
R/W REVIEWER DAP

RIGHT OF WAY BOUNDARY SHEET
STA. 35+50 TO STA. 39+00

ERI-250-0.00

178 / 178

677
677

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PROJECT DESCRIPTION

THIS PROJECT, ERI-250.0.00, INVOLVES IMPROVING APPROXIMATELY 4 MILES OF US 250 ALONG WITH INTERSECTION UPGRADES AT BOGART ROAD, SR 2, PARK PLACE DRIVE SOUTH, FUN DRIVE, PARK PLACE DRIVE NORTH/CROSSING ROAD, HULL ROAD AND SYCAMORE LINE AT US 6.

HISTORIC RECORDS

A 1959 GEOTECHNICAL INVESTIGATION FOR THE NEW BRIDGE TO BE CONSTRUCTED AT THE INTERSECTION OF US 250 AND US 6 WAS FOUND. IT PROVIDED A PRELIMINARY INFORMATION FOR THIS PROJECT. SINCE THE HISTORIC BORINGS WERE LOCATED OUTSIDE OF THE PROJECT LIMIT, THEY WERE NOT PRESENTED ON THIS SOIL PROFILE.

GEOLOGY

THE SITE IS LOCATED IN THE MAUMEE LAKE PLAINS DISTRICT, ONE OF THE PHYSIOGRAPHIC DISTRICTS OF THE HURON-ERIE LAKE PLAINS (BROCKMAN, 1998). SPECIFICALLY, THE PROJECT AREA LIES WITHIN THE BELLEVUE-CASTALIA KARST PLAIN, AN AREA OF HUMMOCKY TERRAIN AND SOLUTION FEATURES. COLUMBUS AND DELAWARE LIMESTONES ARE OVERLAIN BY A THIN MANTLE OF WISCONSINAN SILTY AND SANDY LAKE DEPOSITS AND WAVE-PLANED CLAY TILL. BEDROCK CONSISTS OF DEVONIAN-AGE LIMESTONES AND SHALE. THE LIMESTONE IN PERKINS TOWNSHIP IS CONSIDERED TO BE HIGH-GRADE AND HAS BEEN MINED IN THE SANDUSKY AREA FOR YEARS.

RECONNAISSANCE

A FIELD RECONNAISSANCE OF THE SEVEN INTERSECTIONS WAS CONDUCTED OCTOBER 17, 2011 TO OBSERVE THE CONDITION OF THE EXISTING STREETS AT THE PROPOSED IMPROVEMENT SITES. THESE AREAS ARE IN GENERALLY FLAT TERRAIN WITH LITTLE TO NO CUTS OR FILLS AND A MINIMUM NUMBER OF POTENTIAL GEOTECHNICAL ISSUES. THE PRIMARY CONSIDERATION IS, THEREFOR, THE EXISTING PAVEMENT CONDITION AND EVIDENCE THAT ANY OBSERVED DETERIORATION IS CAUSED BY GEOTECHNICAL FACTORS (E.G. WEAK SUBGRADE) RATHER THAN DEFICIENCIES IN THE PAVEMENT STRUCTURE CAUSED BY UNANTICIPATED TRAFFIC LOADING OR DETERIORATION OF THE PAVEMENT MATERIALS . THE AREAS WERE PHOTOGRAPHED AND DESCRIBED. EACH OF THE INTERSECTIONS, WITH THE EXCEPTION OF MILAN AT BOGART, DISPLAYED SIGNIFICANT AMOUNTS OF CRACKING. MUCH OF IT IS LONGITUDINAL AND TRANSVERSE CRACKING THAT IS NOT USUALLY ASSOCIATED WITH GEOTECHNICAL CONDITIONS. FATIGUE CRACKING RANGING FROM SLIGHT TO SEVERE WAS NOTED AT MOST OF THE LOCATIONS AND MAY BE CAUSED BY INADEQUATE SUBGRADE. ONE INSTANCE OF EDGE CRACKING WAS OBSERVED ON THE SR 2 WB OFFRAMP WHERE THERE IS NO CONCRETE CURB TO PROVIDE LATERAL RESTRAINT TO THE PAVEMENT.

SUBSURFACE EXPLORATION

21 TEST BORINGS WERE COMPLETED AS PART OF THE SUBSURFACE EXPLORATION. BORING DEPTHS ARE EACH 8.5 FT BELOW GROUND SURFACE UNLESS ROCK IS ENCOUNTERED AT SHALLOWER DEPTH, AS IS THE CASE AT TWO LOCATIONS. THE BORINGS WERE DRILLED USING A MOBILE 61 TRUCK-MOUNTED DRILLING RIG WITH 3.25-INCH ID HOLLOW STEM AUGERS. SOIL SAMPLES WERE RECOVERED CONTINUOUSLY (AT INTERVALS OF 1.5 FEET) WITH A SPLIT SPOON SAMPLER (AASHTO T-206 "STANDARD METHOD FOR PENETRATION TEST AND SPLIT BARREL SAMPLING OF SOILS.") AND PLACED IN SEALED JARS. THE STANDARD PENETRATION TEST (SPT) WAS CONDUCTED USING AN AUTO-HAMMER THAT HAS BEEN CALIBRATED AS 89% EFFICIENT. WHERE BEDROCK WAS ENCOUNTERED IN B-001-0-11, THE BORING WAS ADVANCED AND THE ROCK WAS SAMPLED USING A TYPE NX SERIES CORE BARREL, WATER METHOD.

EXPLORATION FINDINGS

THE FINDINGS AND RECOMMENDATIONS OF THIS EXPLORATION ARE PRESENTED SEPARATELY FOR EACH OF THE SEVEN DISCRETE INTERSECTIONS WITHIN THE PROJECT LIMITS.

SYCAMORE LINE/US 6
SOILS AT THE SYCAMORE LINE/US 6 INTERSECTION WILL BE REPRESENTED BY BORINGS B-001 THROUGH B-003. THEY EXPERIENCED DIFFICULT DRILLING AT RELATIVELY SHALLOW DEPTH WITH AUGER REFUSAL AT 4 FT AND 5.5 FT IN B-002 AND B-003 RESPECTIVELY. LIMESTONE WAS ENCOUNTERED AT A DEPTH OF 3 FT IN B-001.

HULL ROAD
SOILS AT THE HULL ROAD INTERSECTION ARE REPRESENTED BY BORINGS B-004 THROUGH B-006. THEY INDICATE A RELATIVELY SHALLOW (ABOUT 5 FT) SOIL COVER OVER BEDROCK. SOIL CONDITIONS ARE MIXED CONSISTING OF CLAY THAT IS FLAGGED AS WEAK IN TWO CASES, AND SILTY GRAVEL THAT VARIES LOOSE TO DENSE.

PARK PLACE DRIVE NORTH/CROSSINGS ROAD
SOILS AT THE PARK PLACE DRIVE NORTH AND CROSSINGS ROAD INTERSECTION ARE REPRESENTED BY BORINGS B-007 THROUGH B-009. THE BORINGS INDICATE THE PRESENCE OF SILTY CLAY AND CLAY (A-6a, A-6b, A-7-6) THAT IS RELATIVELY STRONG AND NOT EXCESSIVELY MOISTY.

FUN DRIVE
SOILS AT THE FUN DRIVE INTERSECTION ARE REPRESENTED BY BORINGS B-010-0-11 AND B-011-0-11. THEY INDICATE THE PRESENCE OF SILTY CLAY AND CLAY (A-6a, A-6b, A-7-6) THAT IS RELATIVELY WEAK.

LEGEND

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
GRAVEL AND/OR ST. FRAGS. WITH SAND AND SILT	A-2-4	5	1
COARSE AND FINE SAND	A-3a	0	2
SANDY SILT	A-4a	5	4
SILT	A-4b	9	0
SILT AND CLAY	A-6a	5	10
SILTY CLAY	A-6b	8	28
	TOTAL	32	45
UNCONTROLLED FILL (UCF)	VISUAL		
LIMESTONE	VISUAL		
PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		

BORING LOCATION - PLAN VIEW.

DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.

WC INDICATES WATER CONTENT IN PERCENT.

N_{60} INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.

X/Y/Z NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
X= NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y= NUMBER OF BLOWS FOR SECOND 6 INCHES.
Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.

W— INDICATES FREE WATER ELEVATION.

● INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.

⊖ INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.

✳ INDICATES A SAMPLE TAKEN WITHIN 3 FT OF PROPOSED GRADE.

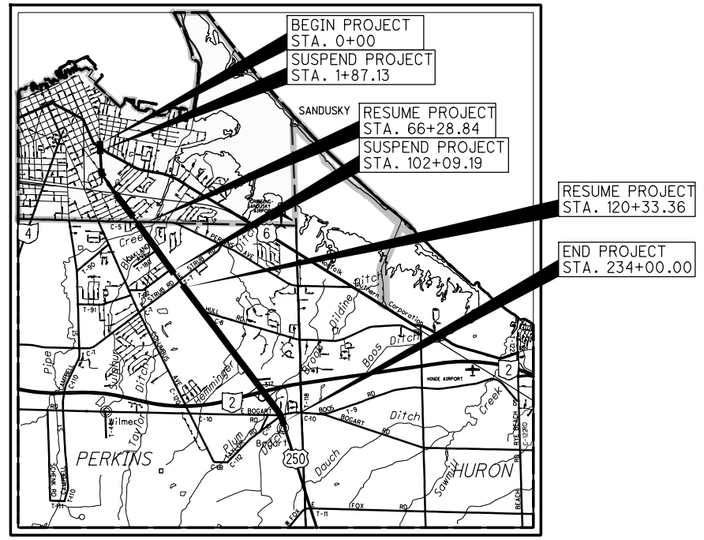
SS INDICATES A SPLIT SPOON SAMPLE.

NP INDICATES A NON-PLASTIC SAMPLE.

PARK PLACE DRIVE SOUTH
SOILS AT THE PARK PLACE DRIVE SOUTH INTERSECTION ARE REPRESENTED BY BORINGS B-001 THROUGH B-014. BORING B-012 INDICATES THE PRESENCE OF POTENTIALLY UNSTABLE SUBGRADE SOIL A-4B; SILT THAT IS FROST SUSCEPTIBLE, AND WEAK SOILS (A-6b AND A-4b). THE OTHER TWO BORINGS REVEALED VARYING AMOUNTS OF SOFT AND MOIST SOILS THAT ARE UNSUITABLE SUBGRADE MATERIALS UNLESS REMEDIATED.

STATE ROUTE 2
IMPROVEMENTS ARE PLANNED AT THREE OF THE ON/OFF RAMPS AT THE MILAN ROAD/SR 2 INTERSECTION. SOILS ARE REPRESENTED BY BORINGS B-015 THROUGH B-017. TWO OF THE BORINGS INDICATE THE PRESENCE OF POTENTIALLY UNSTABLE SUBGRADE SOIL A-4B; SILT THAT IS FROST SUSCEPTIBLE. ALL THREE BORINGS INDICATE THE PRESENCE OF EITHER EXCESSIVELY WEAK AND/OR MOIST SOILS (A-6a, A-6b AND A-4b).

BOGART STREET
SOILS AT THE BOGART STREET INTERSECTION ARE REPRESENTED BY BORINGS B-018 THROUGH B-021. THREE OT THE FOUR BORINGS INDICATE THE PRESENCE OF POTENTIALLY UNSTABLE SUBGRADE SOIL A-4b; SILT THAT IS FROST SUSCEPTIBLE. THESE SAME BORINGS ALSO INDICATE THE PRESENCE OF EXCESSIVELY MOIST SOILS (A-6a, A-6b AND A-4a).



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

PARTICLE SIZE DEFINITIONS

12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm
BOULDERS | COBBLES		GRAVEL	COARSE SAND	FINE SAND	SILT | CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE	

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JULY 2011.

AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1600 WEST BROAD STREET OR THE OFFICE OF STRUCTURAL ENGINEERING AT 1980 WEST BROAD STREET.

RECON. - B. WESTERVILLE 10/17/2011
DRILLING - BPI 8/29-8/31/2011 & 10/30-10/31/2011
DRAWN - C. HE 11/07/-11/14/2011
REVIEWED - S. EDWARDS 11/16/2011

DESIGN AGENCY
BARR & PREVOST
2800 CORPORATE EXCHANGE DR., STE 240
COLUMBUS, OH 43231
(614) 714-0270 FAX (614) 714-0323

PID NO. 88407

SOIL PROFILE

ERI-250-0.00

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SUMMARY OF SOIL TEST DATA
SYCAMORE LINE

EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE ID	% REC	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)
B-001	01.00	01.92	SS-1	27	40	8	10	17	25	46	21	25	17	A-7-6 (6) *
STA. 8+10, 22.3' LT.	02.50	02.83	SS-2										2	ROCK (VISUAL) *
NORTHING = 648827.369	03.00	08.50	SS-3											CORE
EASTING = 1914501.009														
B-002	01.00	01.92	SS-1	82	16	16	13	46	9	NP	NP	NP	8	A-4a (4) *
STA 8+24, 57.1' RT.	02.50	02.75	SS-2	67				SAME AS SS-1					7	A-4a (V) *
NORTHING = 648809.561														
EASTING = 1914422.288														

SUMMARY OF SOIL TEST DATA
US 250

EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE ID	% REC	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)
B-003	01.00	01.92	SS-1	73	34	14	13	28	11	19	18	1	4	A-4a (1) *
STA. 1+98, 65.8' LT.	02.50	02.67	SS-2	50									4	ROCK (VISUAL)
NORTHING = 648500.483	04.00	04.17	SS-3	100									2	ROCK (VISUAL)
EASTING = 1914559.068														
B-004	01.00	02.50	SS-1	56	41	10	12	21	16	30	19	11	5	A-6a (1)
STA. 138+76, 118.3' LT.	02.50	04.00	SS-2	33	50	12	12	16	10	27	20	7	7	A-2-4 (0)
NORTHING = 637227.765	04.00	05.00	SS-3	56	48	13	12	17	10	NP	NP	NP	10	A-2-4 (0)
EASTING = 1921790.842	05.00	05.50	SS-3	56									9	A-3a (VISUAL)
	05.50	06.92	SS-4	35									4	A-3a (VISUAL)
	07.00	07.08	SS-5	0									-	ROCK (VISUAL)
B-005	01.00	02.50	SS-1	22	36	4	21	23	16	46	28	18	10	A-7-6 (3)
STA. 138+86, 163.2' RT.	02.50	04.00	SS-2	22	9	5	28	33	25	45	29	16	13	A-7-6 (8)
NORTHING = 637050.916	04.00	05.50	SS-3	39				SAME AS SS-2					19	A-7-6 (VISUAL)
EASTING = 1921571.677	05.50	05.33	SS-4	100									5	ROCK (VISUAL)
	07.00	07.33	SS-5	88									-	ROCK (VISUAL)
B-006	01.00	02.50	SS-1	39	26	13	28	19	14	30	21	9	11	A-2-4 (0) *
STA. 139+66, 102.6' LT	02.50	03.50	SS-2	75	63	9	8	14	6	38	28	10	13	A-2-4 (0)
NORTHING = 637147.028	04.00	04.33	SS-3	100									10	A-2-4 (VISUAL)
EASTING = 1921832.124	05.50	05.83	SS-4	0									-	ROCK (VISUAL)
	07.00	07.17	SS-5	100									2	ROCK (VISUAL)
B-007	01.00	02.50	SS-1	56	18	15	7	28	32	37	20	17	13	A-6b (8) *
STA. 181+23, 106.0' RT.	02.50	04.00	SS-2	72	4	6	17	34	39	34	16	18	14	A-6b (11) *
NORTHING = 633702.575	04.00	05.50	SS-3	89				SAME AS SS-2					11	A-6b (VISUAL)
EASTING = 1924169.265	05.50	07.00	SS-4	100				SAME AS SS-2					12	A-6b (VISUAL)
	07.00	08.50	SS-5	100				SAME AS SS-2					15	A-6b (VISUAL)
B-008	01.00	02.50	SS-1	44	23	4	5	45	23	30	18	12	15	A-6a (7) *
STA. 181+38, 74.9' LT.	02.50	04.00	SS-2	44	0	2	12	36	50	46	22	24	23	A-7-6 (15)
NORTHING = 633799.417	04.00	05.50	SS-3	56				SAME AS B-007 SS-2					20	A-6b (VISUAL)
EASTING = 1924322.763	05.50	07.00	SS-4	100				SAME AS B-007 SS-2					18	A-6b (VISUAL)
	07.00	08.50	SS-5	94				SAME AS SS-1					11	A-6a (VISUAL)
B-009	01.00	02.50	SS-1	56	3	4	15	35	43	40	18	22	16	A-6b (13) *
STA. 181+82, 79.8' LT.	02.50	04.00	SS-2	56	1	2	7	38	52	43	20	23	17	A-7-6 (14)
NORTHING = 633767.733	04.00	05.50	SS-3	17				SAME AS SS-2					17	A-7-6 (VISUAL)
EASTING = 1924352.795	05.50	07.00	SS-4	61				SAME AS SS-2					18	A-7-6 (VISUAL)
	07.00	08.50	SS-5	78				SAME AS SS-2					20	A-7-6 (VISUAL)
B-010	01.00	02.50	SS-1	61	1	2	17	42	38	35	21	14	23	A-6a (10) *
STA. 188+62, 119.1' RT.	02.50	04.00	SS-2	33	3	3	20	40	34	34	19	15	23	A-6a (10)
NORTHING = 633104.836	04.00	04.50	SS-3	89				SAME AS SS-2					22	A-6a (VISUAL)
EASTING = 1924603.803	04.50	05.50	SS-3	89				SAME AS B-009 SS-1					23	A-6b (VISUAL)
	05.50	07.00	SS-4	94				SAME AS B-009 SS-1					23	A-6b (VISUAL)
	07.00	08.50	SS-5	94				SAME AS B-013 SS-2					16	A-4a (VISUAL)

SUMMARY OF SOIL TEST DATA
US 250

EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE ID	% REC	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)
B-011	01.00	02.50	SS-1	56	2	3	16	41	38	40	21	19	15	A-6b (12)
STA. 189+06, 151.3' RT.	02.50	04.00	SS-2	22	7	3	17	39	34	42	22	20	12	A-7-6 (12)
NORTHING = 633050.261	04.00	05.50	SS-3	61				SAME AS SS-2					25	A-7-6 (VISUAL)
EASTING = 1924604.649	05.50	07.00	SS-4	72				SAME AS SS-2					24	A-7-6 (VISUAL)
	07.00	08.50	SS-5	100				SAME AS SS-2					19	A-7-6 (VISUAL)
B-012	01.00	02.50	SS-1	89	8	5	16	51	20	26	18	8	17	A-4b (7) *
STA. 194+60, 65.0' LT.	02.50	04.00	SS-2	94	0	2	16	62	20	27	18	9	21	A-4b (8)
NORTHING = 632738.776	05.00	05.50	SS-3	100				SAME AS B-011 SS-1					27	A-6b (VISUAL)
EASTING = 1925111.585	05.50	07.00	SS-4	100				SAME AS B-011 SS-1					21	A-6b (VISUAL)
	07.00	08.50	SS-5	100				SAME AS B-011 SS-1					24	A-6b (VISUAL)
B-013	01.00	02.50	SS-1	72	24	9	10	30	27	35	19	16	26	A-6b (7) *
STA. 195+39, 77.6' LT.	02.50	04.00	SS-2	67	16	13	13	36	22	25	16	9	9	A-4a (5) *
NORTHING = 632683.257	04.00	05.50	SS-3	89				SAME AS B-014 SS-1					19	A-6a (VISUAL)
EASTING = 1925169.344	05.50	07.00	SS-4	89				SAME AS B-014 SS-1					19	A-6a (VISUAL)
	07.00	08.50	SS-5	94				SAME AS B-014 SS-1					23	A-6a (VISUAL)
B-014	01.00	02.50	SS-1	78	13	7	17	40	23	30	18	12	15	A-6a (6) *
STA. 195+67, 153.5' RT.	02.50	04.00	SS-2	78	22	3	10	35	30	36	17	19	18	A-6b (10) *
NORTHING = 632521.863	04.00	05.50	SS-3	61				SAME AS SS-2					24	A-6b (VISUAL)
EASTING = 1925001.782	05.50	07.00	SS-4	78				SAME AS SS-2					25	A-6b (VISUAL)
	07.00	08.50	SS-5	83				SAME AS SS-2					26	A-6b (VISUAL)
B-015	01.00	02.50	SS-1	78	19	11	9	44	17	28	19	9	9	A-4a (5) *
STA. 201+81, 47.6' RT.	02.50	04.00	SS-2	83	1	2	4	64	29	27	17	10	20	A-4b (8)
NORTHING = 632096.125	04.00	05.50	SS-3	100				SAME AS B-014 SS-2					25	A-6b (VISUAL)
EASTING = 1925457.003	05.50	07.00	SS-4	100				SAME AS B-014 SS-2					36	A-6b (VISUAL)
	07.00	08.50	SS-5	100				SAME AS B-014 SS-2					26	A-6b (VISUAL)
B-016	01.00	02.50	SS-1	72	6	11	12	55	16	23	18	5	13	A-4b (7)
STA. 203+62, 122.4' LT.	02.50	04.00	SS-2	94	1	0	2	62	35	27	17	10	25	A-4b (8) ●
NORTHING = 632054.247	04.00	05.50	SS-3	94				SAME AS B-014 SS-1					24	A-6a (VISUAL)
EASTING = 1925701.995	05.50	07.00	SS-4	89				SAME AS B-014 SS-1					29	A-6a (VISUAL)
	07.00	08.50	SS-5	83				SAME AS B-014 SS-1					27	A-6a (VISUAL)
B-017	01.00	02.50	SS-1	61	24	3	6	38	29	35	17	18	13	A-6b (10)
STA. 213+03, 97.3' LT.	02.50	04.00	SS-2	0										
NORTHING = 631288.750	04.00	05.50	SS-3	94				SAME AS SS-1					34	A-6b (VISUAL)
EASTING = 1926250.131	05.50	07.00	SS-4	28				SAME AS SS-1					23	A-6b (VISUAL)
	07.00	08.50	SS-5	100				SAME AS SS-1					29	A-6b (VISUAL)
B-018	01.00	02.50	SS-1	44	4	5	10	34	47	43	20	23	18	A-7-6 (14) *
STA. 226+72, 123.8' RT.	02.50	04.00	SS-2	56	11	7	12	30	40	34	18	16	14	A-6b (9)
NORTHING = 630063.148	04.00	05.50	SS-3	89				SAME AS SS-2					15	A-6b (VISUAL)
EASTING = 1926869.911	05.50	07.00	SS-4	89				SAME AS SS-2					14	A-6b (VISUAL)
	07.00	08.50	SS-5	89				SAME AS SS-2					15	A-6b (VISUAL)
B-019	01.00	02.50	SS-1	83	23	14	14	33	16	25	18	7	12	A-4a (3)
STA. 227+37, 93.3' LT.	02.50	04.00	SS-2	83	2	1	9	70	18	28	22	6	21	A-4b (8) *
NORTHING = 630110.906	04.00	05.50	SS-3	83				SAME AS SS-1					26	A-4a (VISUAL) *
EASTING = 1927091.415	05.50	07.00	SS-4	72				SAME AS B-018 SS-2					23	A-6b (VISUAL)
	07.00	08.50	SS-5	94				SAME AS B-018 SS-2					19	A-6b (VISUAL)
B-020	01.00	02.50	SS-1	56	1	1	7	76	15	NP	NP	NP	17	A-4b (8) *
STA. 228+41, 67.2' RT.	02.50	04.00	SS-2	44	38	22	12	21	7	NP	NP	NP	3	A-2-4 (0) *
NORTHING = 629945.638	04.00	05.50	SS-3	100				SAME AS B-018 SS-2					27	A-6b (VISUAL)
EASTING = 1926995.740	05.50	07.00	SS-4	100				SAME AS B-018 SS-2					29	A-6b (VISUAL)
	07.00	08.50	SS-5	100				SAME AS B-018 SS-2					26	A-6b (VISUAL)
B-021	01.00	02.50	SS-1	100	0	1	26	59	14	NP	NP	NP	8	A-4b (8) *
STA. 228+45, 129.4' LT.	02.50	04.00	SS-2	61	1	2	17	51	29	29	19	10	13	A-4b (8) *
NORTHING = 630027.421	04.00	05.50	SS-3	89				SAME AS B-019 SS-1					17	A-4a (VISUAL)
EASTING = 1927174.610	05.50	07.00	SS-4	89				SAME AS B-014 SS-1					20	A-6a (VISUAL)
	07.00	08.50	SS-5	89				SAME AS B-014 SS-1					15	A-6a (VISUAL)

DRAWN CMH | CHECKED SE

SOIL PROFILE

SUMMARY OF SOIL TEST DATA

ERI-250-0.00

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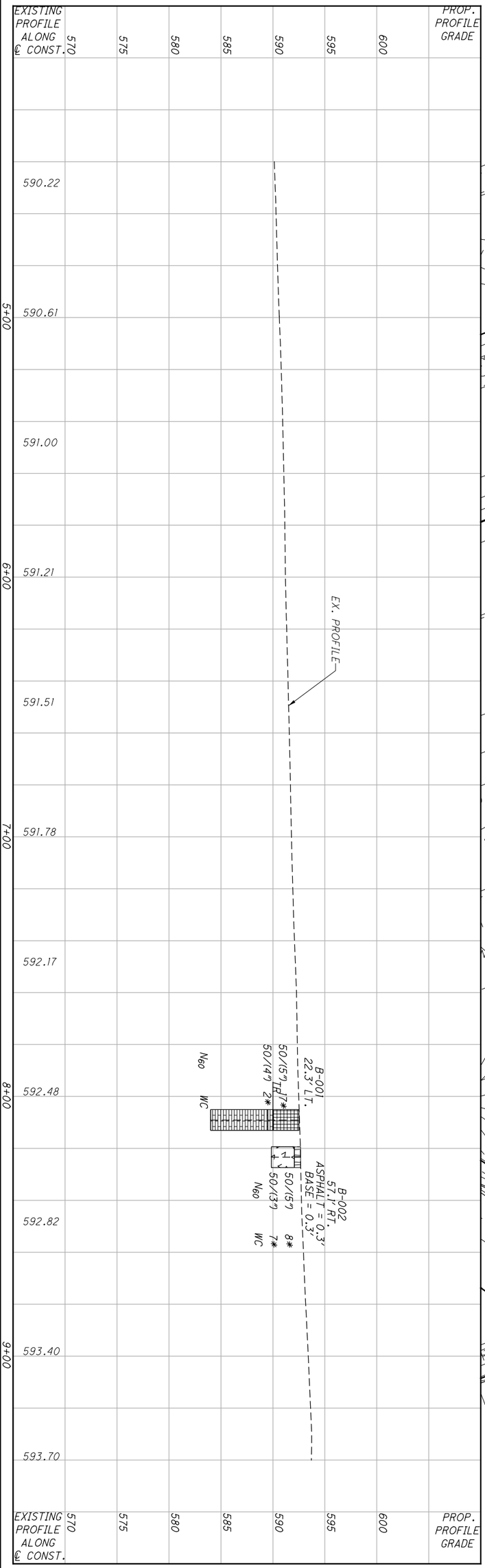

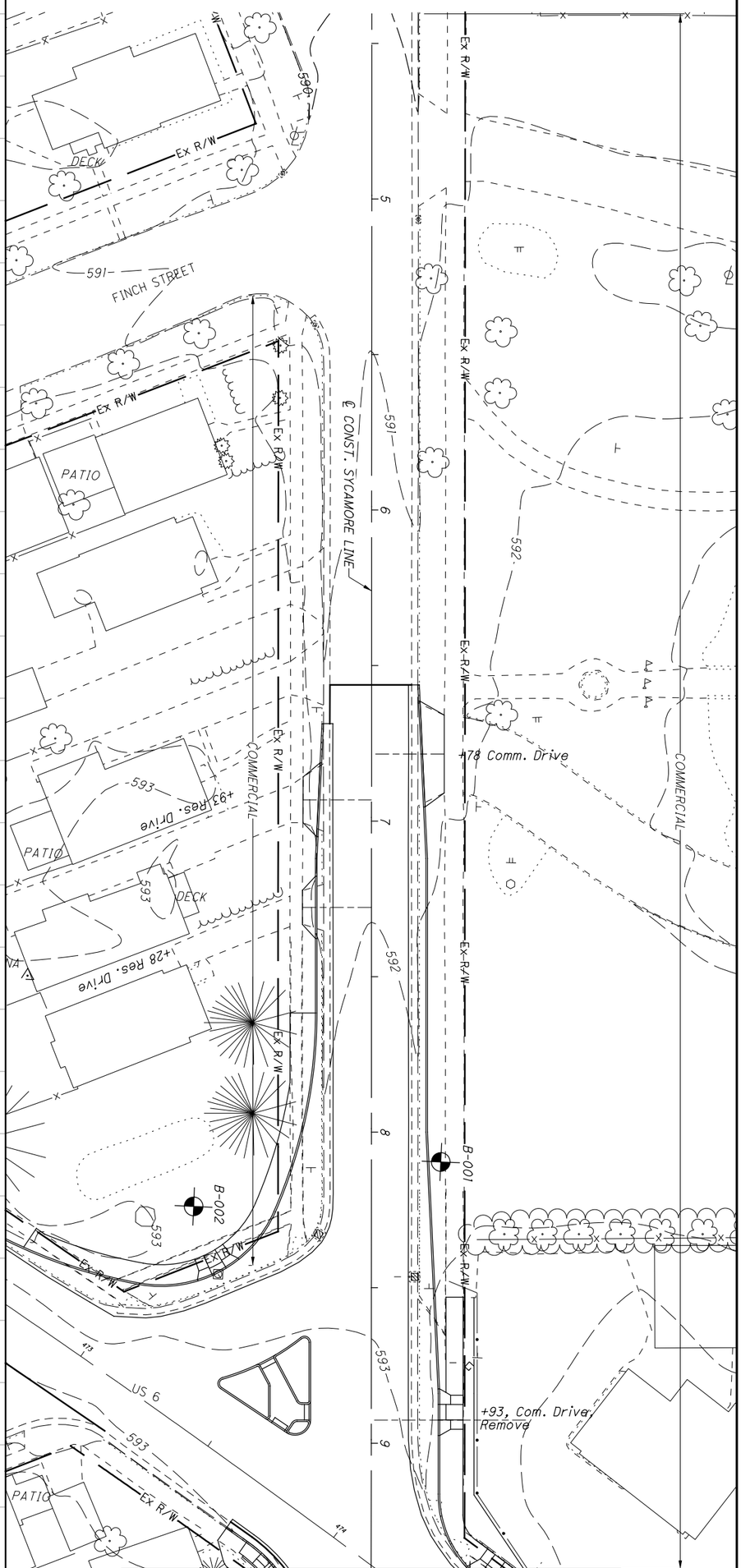

3/18	ERI-250-0.00	SOIL PROFILE - SYCAMORE LINE STA. 4+50.00 TO STA. 9+40.50	DRAWN CMH CHECKED SE	0 20 10 40 HORIZONTAL SCALE IN FEET

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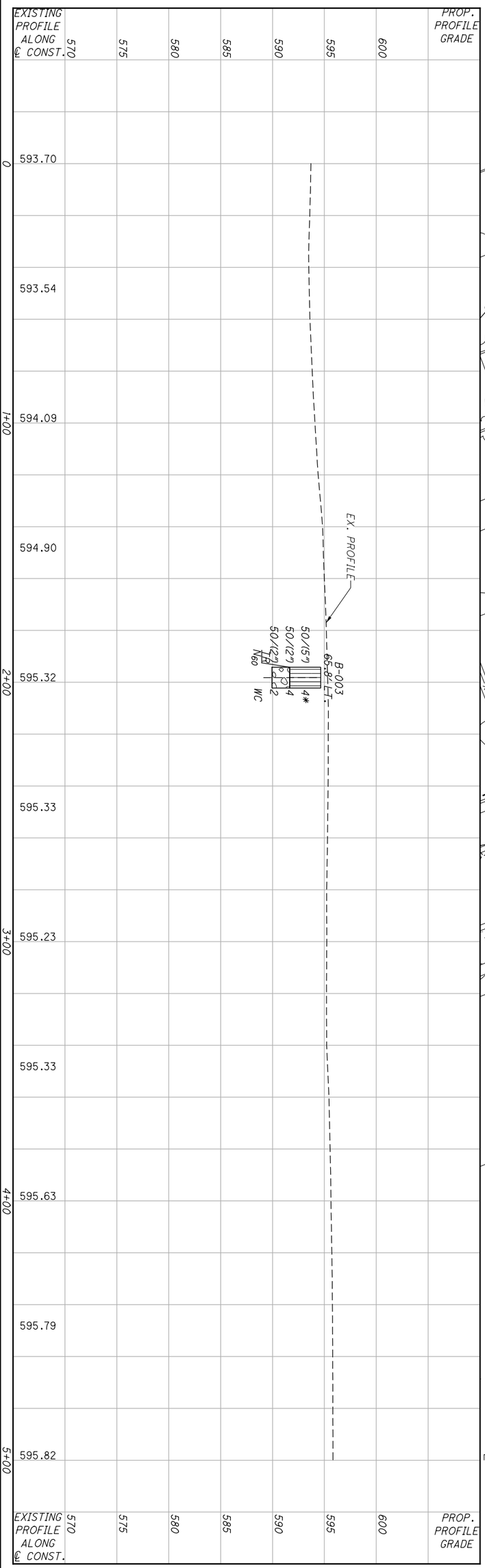

4 / 18	ERI-250-0.00	SOIL PROFILE - US 250 STA. 0+00.00 TO STA. 5+00.00	DRAWN CMH CHECKED SE	0 20 10 40 HORIZONTAL SCALE IN FEET	N

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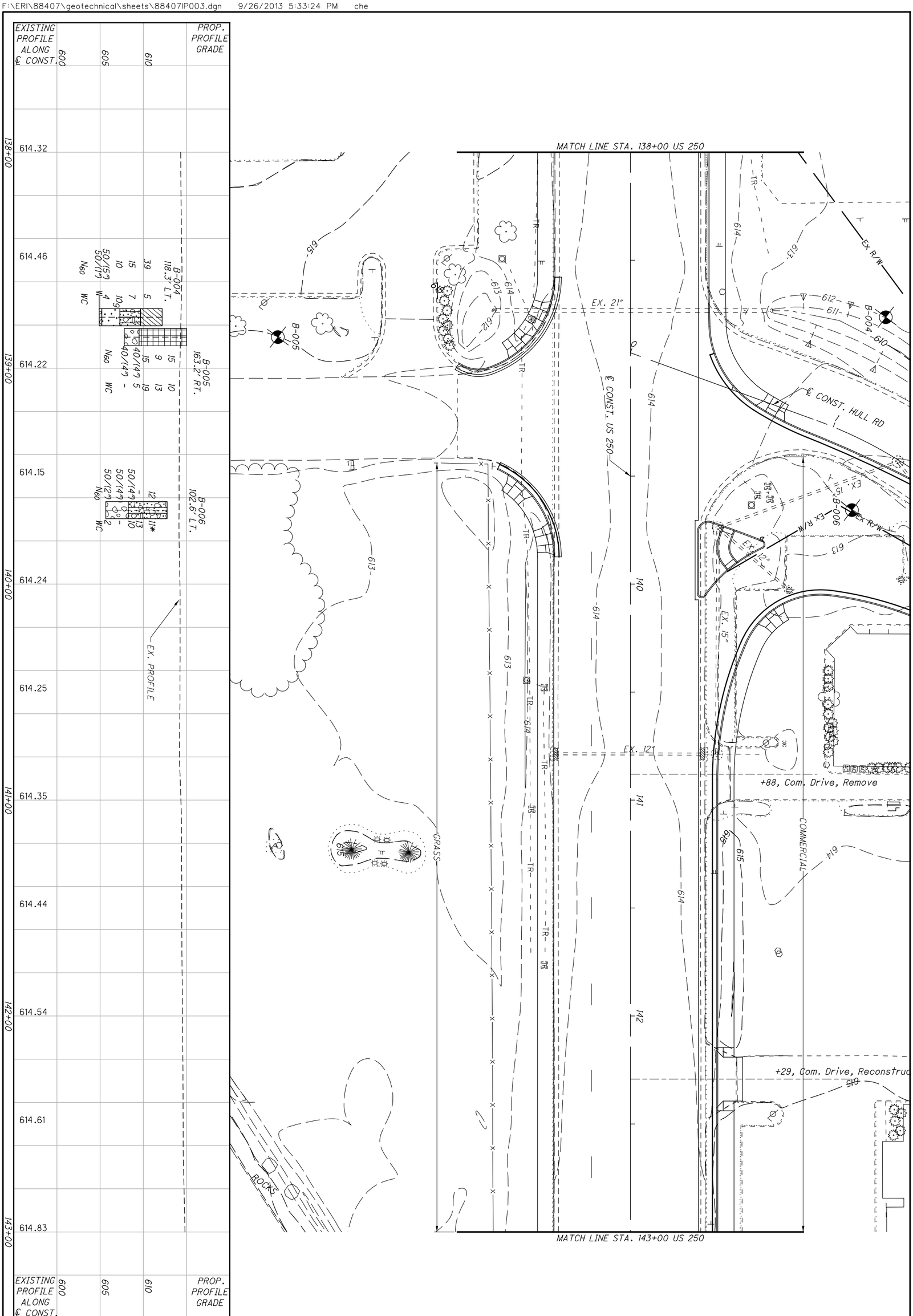

5 / 18	ERI-250-0.00	SOIL PROFILE - US 250 STA. 138+00.00 TO STA. 143+00.00	DRAWN CMH CHECKED SE	0 20 10 40 HORIZONTAL SCALE IN FEET

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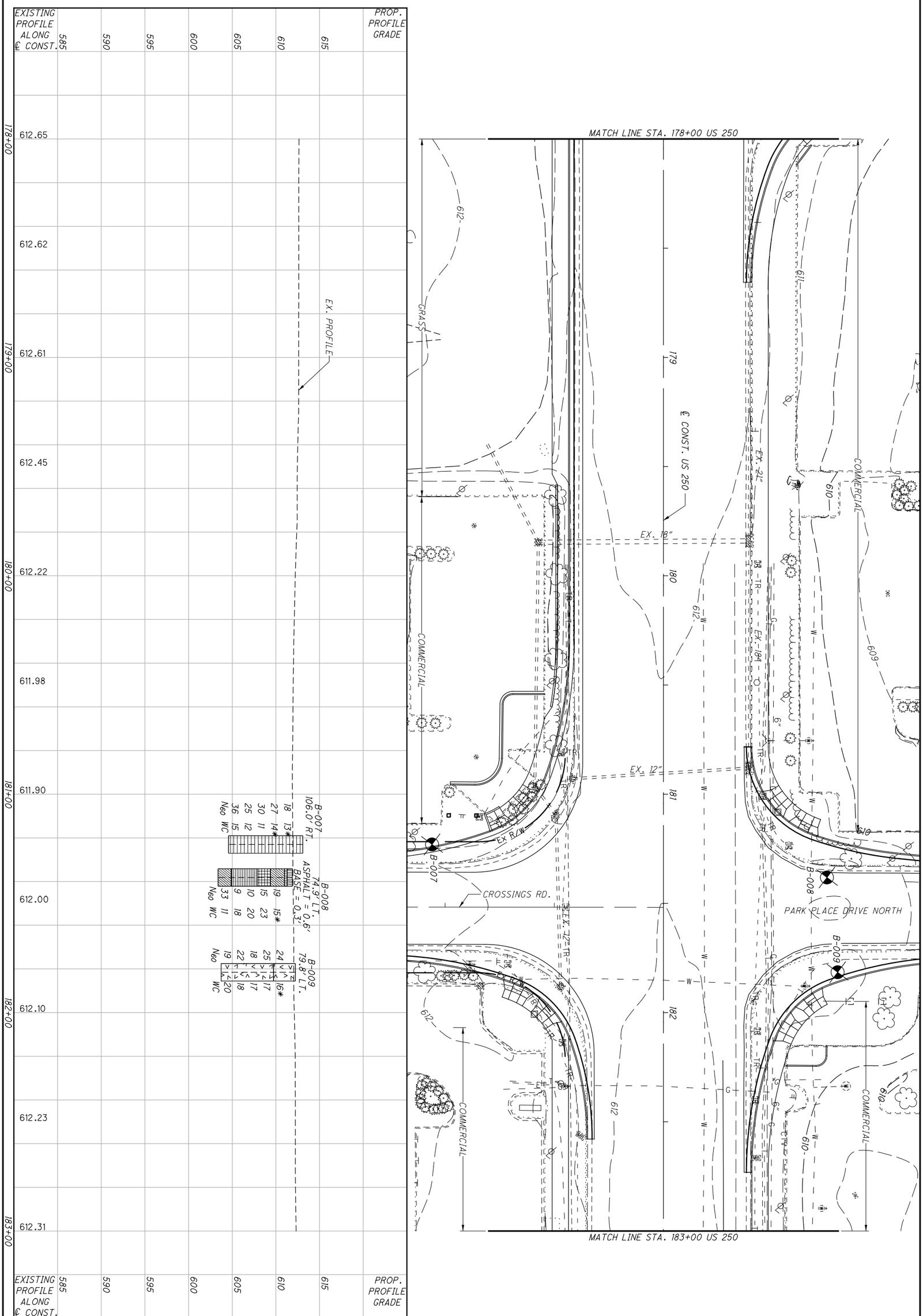

6 / 18	ERI-250-0.00	SOIL PROFILE - US 250 STA. 178+00.00 TO STA. 183+00.00	DRAWN CMH CHECKED SE	0 20 10 40 HORIZONTAL SCALE IN FEET	

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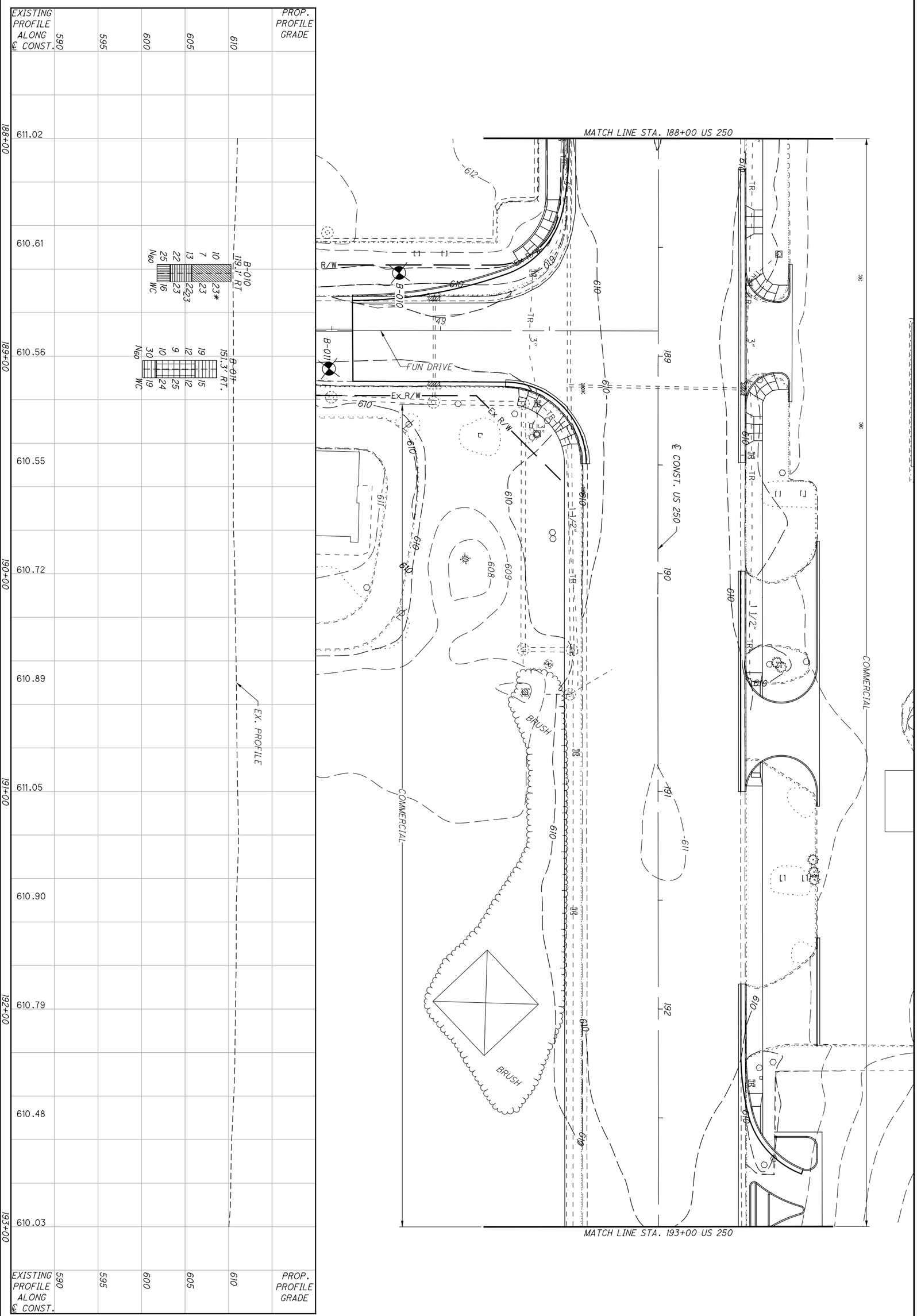

7/18	ERI-250-0.00	SOIL PROFILE - US 250 STA. 188+00.00 TO STA. 193+00.00	DRAWN CMH CHECKED SE	0 20 10 40 HORIZONTAL SCALE IN FEET	N

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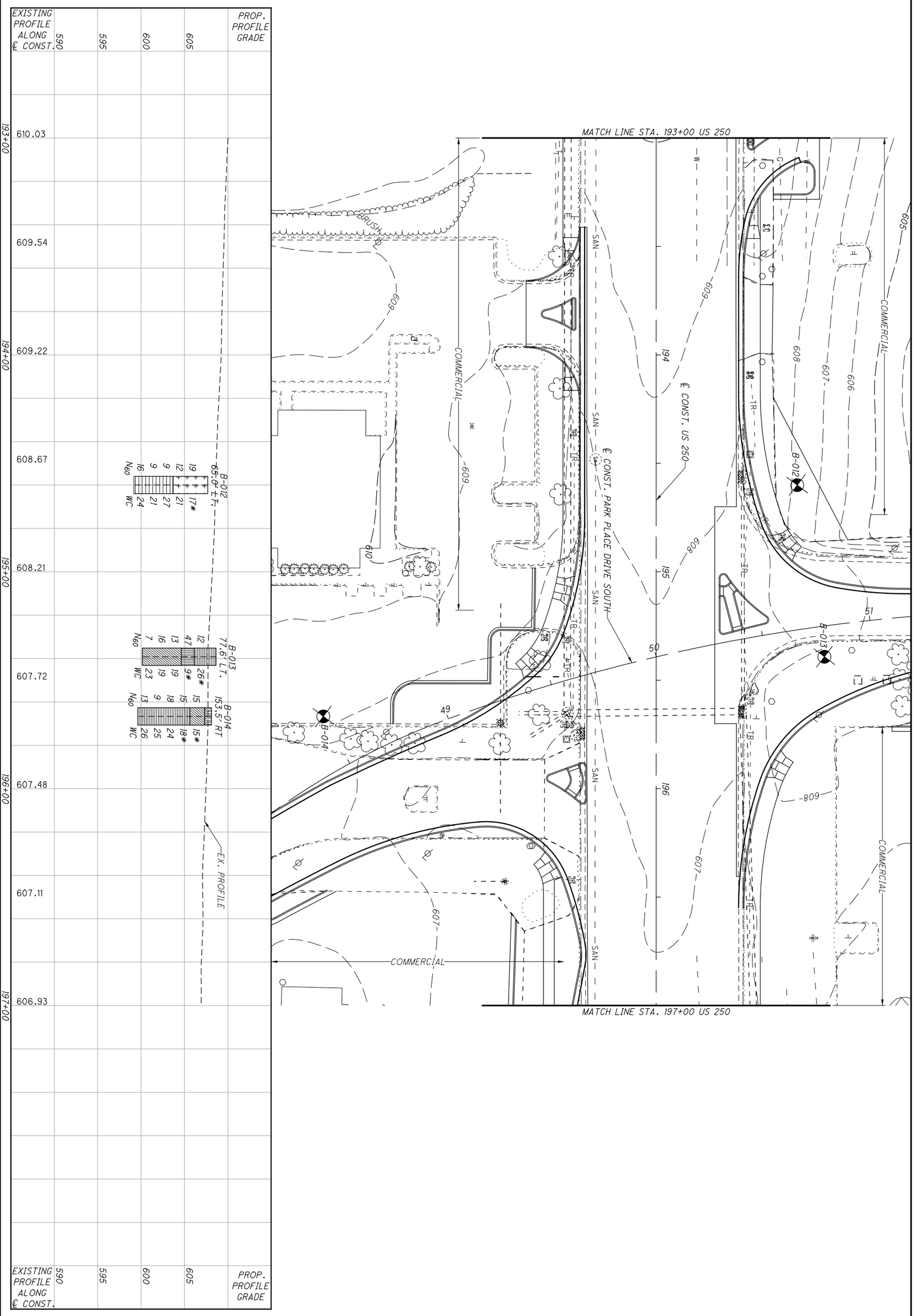

18 / 8	ERI-250-0.00	SOIL PROFILE - US 250 STA. 193+00.00 TO STA. 197+00.00	DRAWN CMH CHECKED	0 20 10 40 HORIZONTAL SCALE IN FEET

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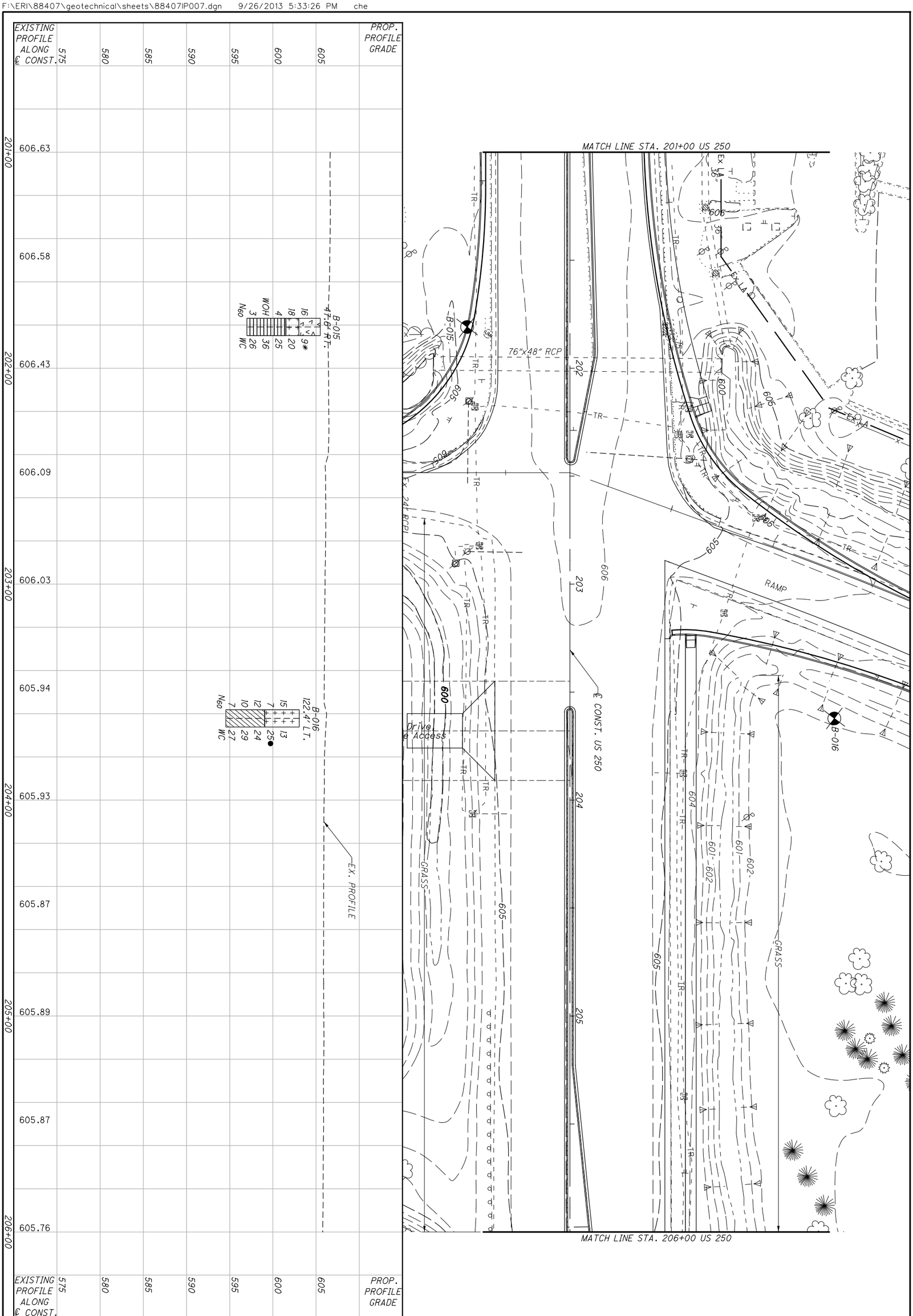

9 / 18	ERI-250-0.00	SOIL PROFILE - SYCAMORE LINE STA. 201+00.00 TO STA. 206+00.00	DRAWN CMH CHECKED	0 20 10 40 HORIZONTAL SCALE IN FEET

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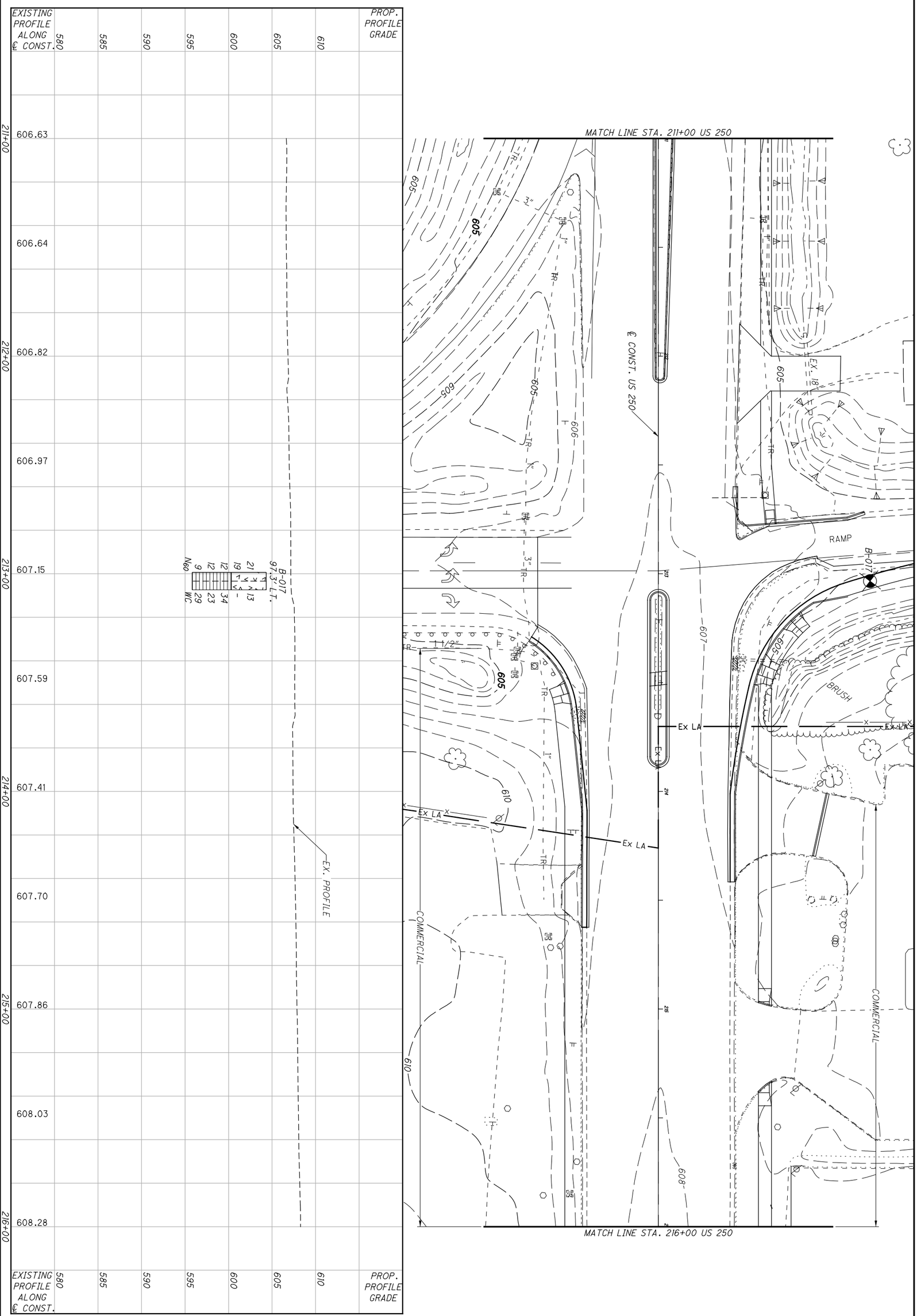

10 / 18	ERI-250-0.00	SOIL PROFILE - SYCAMORE LINE STA. 211+00.00 TO STA. 216+00.00	DRAWN CMH CHECKED	0 10 20 40 HORIZONTAL SCALE IN FEET	

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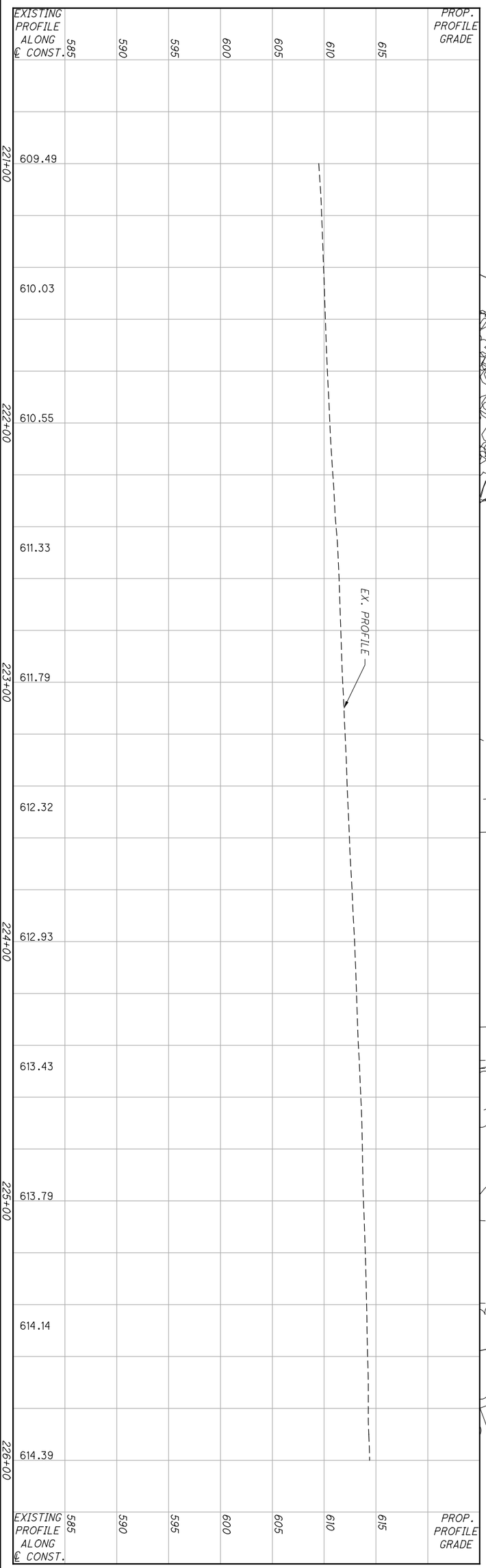

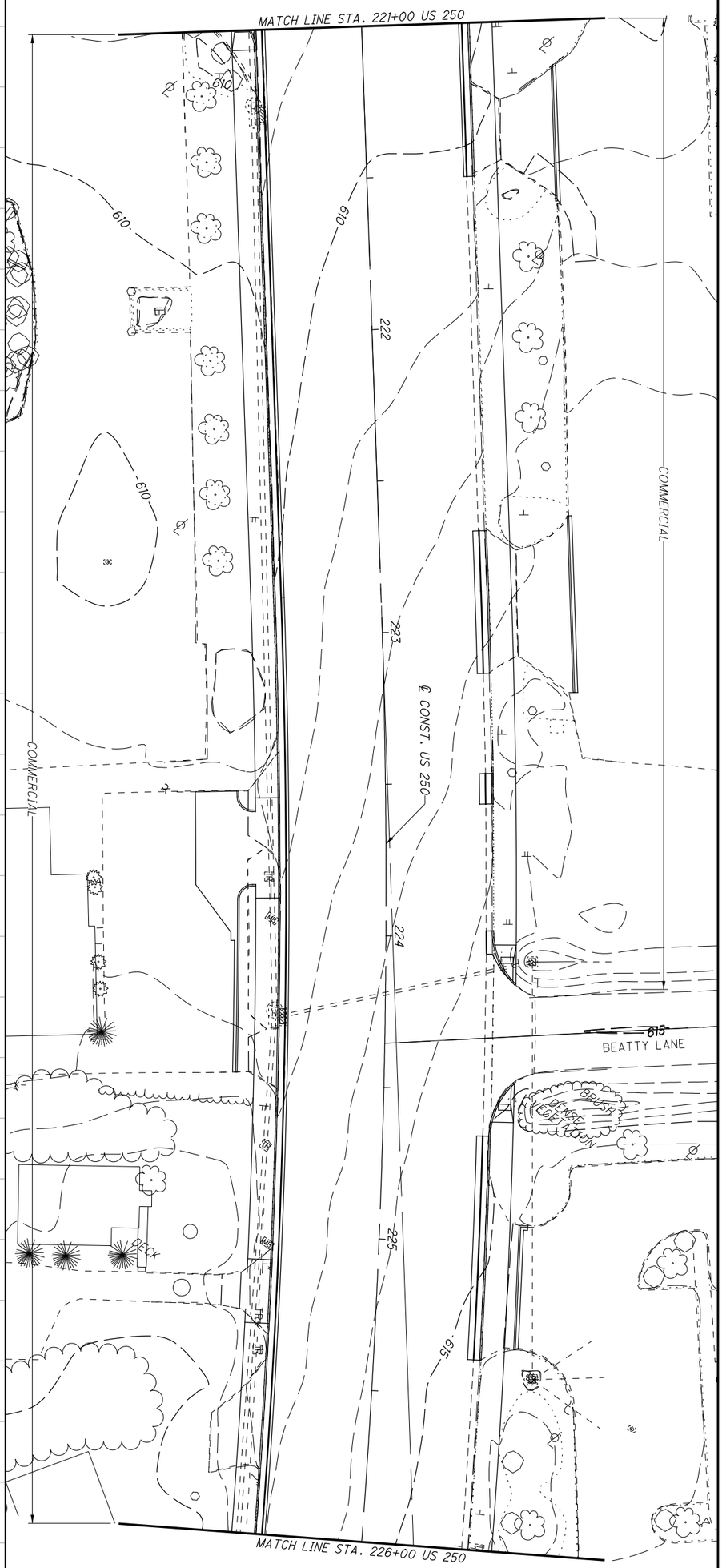

18 / 11	ERI-250-0.00	SOIL PROFILE - SYCAMORE LINE STA. 221+00.00 TO STA. 226+00.00	DRAWN CMH CHECKED	0 10 20 40 HORIZONTAL SCALE IN FEET

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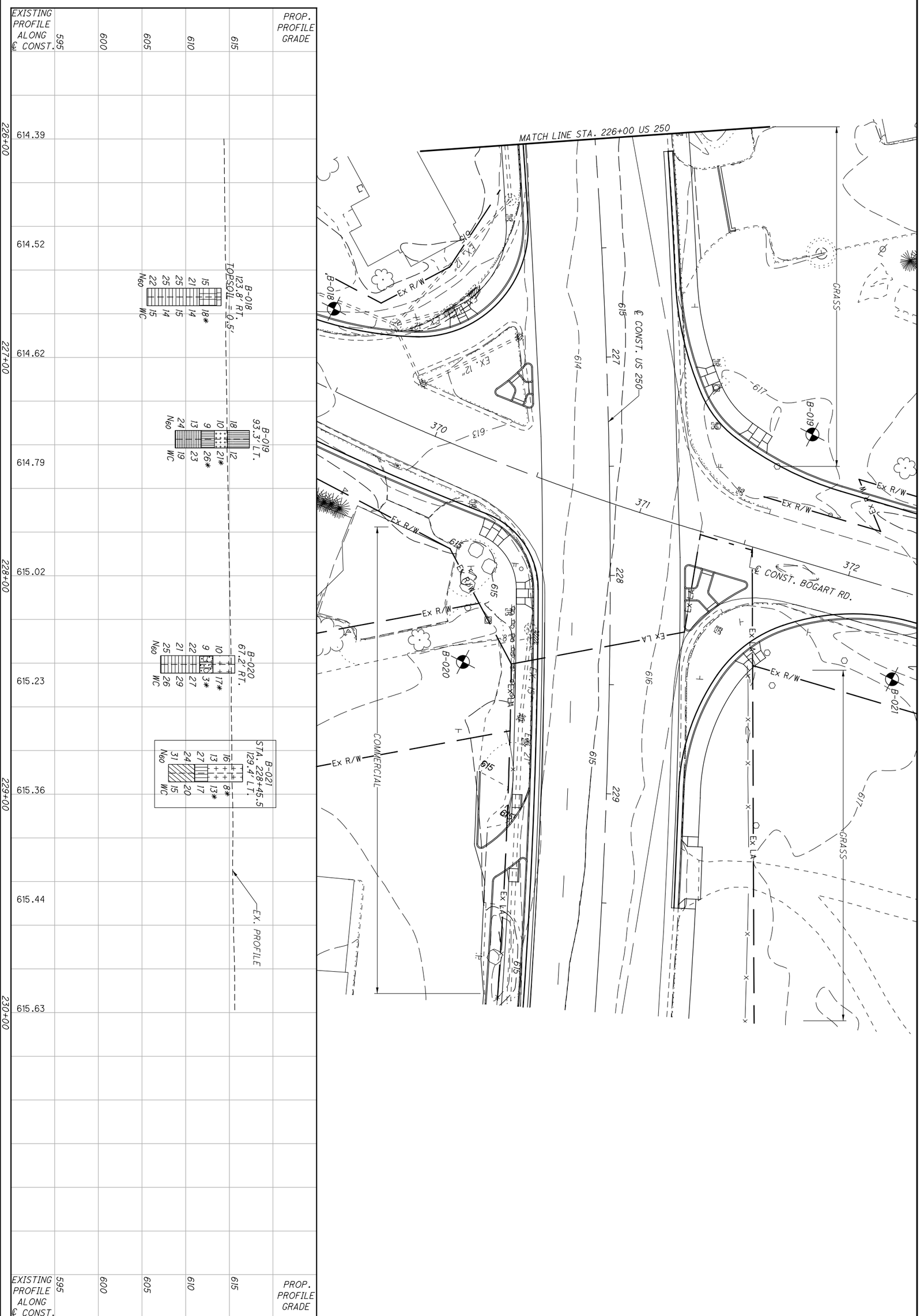


12 / 18	ERI-250-0.00	SOIL PROFILE - SYCAMORE LINE STA. 226+00.00 TO STA. 230+00.00	DRAWN CMH CHECKED	0 10 20 40 HORIZONTAL SCALE IN FEET

PROJECT DESCRIPTION

REPLACEMENT OF THE CULVERT LOCATED ALONG BOGART ROAD APPROXIMATELY 350 FEET EAST OF INTERSECTION WITH US-250 IN PERKINS TOWNSHIP, OHIO.

HISTORIC RECORDS

A 1959 STRUCTURE FOUNDATION INVESTIGATION FOR THE STRUCTURES LOCATED AT THE INTERECTION OF US-250 AND SR-2 INDICATED SOIL CONDITIONS AND A BEDROCK DEPTH AT THE NEARBY LOCATION. THESE WERE NOT PRESENTED HERE AS THEY WERE DRILLED FOR PURPOSES OTHER THAN CULVERT EVALUATION.

GEOLOGY

THE SITE IS LOCATED IN THE BELLEVUE-CASTALIA KARST PLAIN. COLUMBUS AND DELAWARE LIMESTONES ARE OVERLAIN BY A THIN MANTLE OF WISCONSINAN SILTY AND SANDY LAKE DEPOSITS AND WAVE-PLANED CLAY TILL. BEDROCK CONSISTS OF DEVONIAN-AGE LIMESTONES AND SHALE. NO OBVIOUS KARST FEATURES IN THE VICINITY.

RECONNAISSANCE

A SITE RECONNAISSANCE WAS CONDUCTED MARCH 19, 2013. THE SURROUNDING AREA IS A RESIDENTIAL AND COMMERCIAL AREA. THE LAND ON BOTH SIDES OF THE DITCH IS GRASS COVERED WITH A GROWTH OF SMALL TREES ALONG THE BANKS. BOGART ROAD DESCENDS SLIGHTLY AS IT APPROACHES THE DITCH AND PAVEMENT IN THE VICINITY OF THE CULVERT DOES NOT APPEAR NOTICEABLY DISTRESSED. NATURAL STREAMBED APPEARS TO HAVE ERODED OVER THE YEARS. SMALL BEDROCK SLABS WERE OBSERVED IN THE DITCH.

SUBSURFACE EXPLORATION

TWO (2) TEST BORINGS WERE COMPLETED AS PART OF THE SUBSURFACE EXPLORATION, ON MARCH 19 AND 20, 2013. THE BORINGS WERE DRILLED WITH AN ATV MOUNTED ROTARY DRILL RIG, USING 3.25 INCH I.D. HOLLOW STEM AUGERS TO ADVANCE THE HOLES THROUGH SOIL AND WEATHERED SHALE BEDROCK. DISTURBED SAMPLES WERE OBTAINED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206), USING AN AUTOHAMMER THAT WAS CALIBRATED 6/30/11 AS 89% COEFFICIENT. SAMPLES WERE TAKEN CONSECUTIVELY AND AT 2.5 FOOT AND 3.0 FOOT SPACING. THE HAMMER SAMPLE WAS OBTAINED AT THE DEPTH SHOWN ON THE B-001-0-13 LOG AND IN THE PROFILE, IN ACCORDANCE WITH AASHTO T207.

EXPLORATION FINDINGS

THE TEST BORINGS DISCLOSED THAT SOFT TO HARD, PREDOMINANTLY COHESIVE SOIL, THAT INCREASES IN DENSITY WITH INCREASE IN DEPTH OVERLIES AN INDETERMINATE BEDROCK SURFACE IN WHICH THE WEATHERED SHALE BEDROCK HAS DECOMPOSED INTO HARD CLAY AT THE TOP. SOIL CONDITIONS ARE SHALLOW. IN BORING B-001-0-13 THE WEATHERED SHALE/HARD CLAY LAYER WAS ENCOUNTERED AT 15.5 FOOT DEPTH, ELEVATION 596.5 FEET, AND THE BORING PENETRATED AN ADDITIONAL 24.5 FEET FOR A TOTAL DEPTH OF 40.0 FEET, ELEVATION 572.0 FEET. IN BORING B-002-0-13, THE WEATHERED SHALE/HARD CLAY LAYER WAS ENCOUNTERED AT 9.0 FEET DEEP, ELEVATION 604.0 FEET, AND THE BORING PENETRATED AN ADDITIONAL 31.0 FEET FOR A TOTAL DEPTH OF 40.0 FEET, ELEVATION 573.0 FEET.

GROUNDWATER WAS ENCOUNTERED IN TEST BORING B-001-0-13 AT 20.0 FOOT DEPTH, ELEVATION 592.0 FEET. GROUNDWATER WAS NOT ENCONTERED IN TEST BORING B-002-0-13.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JANUARY 2012.

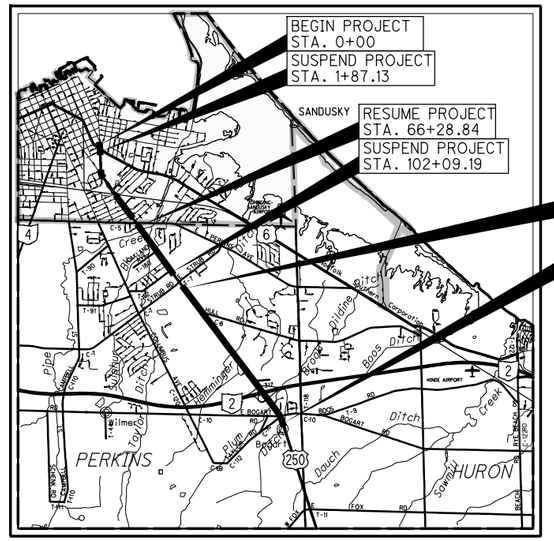
AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE STRUCTURE FOUNDATION EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1600 WEST BROAD STREET OR THE OFFICE OF STRUCTURAL ENGINEERING AT 1980 WEST BROAD STREET.

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH.	CLASSIFIED VISUAL
	GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-B	1	1
	SANDY SILT	A-4a	3	1
	SILT AND CLAY	A-6a	1	0
	SITLY CLAY	A-6b	1	1
	ELASTIC CLAY	A-7-5	1	0
	CLAY	A-7-6	6	1
		TOTAL	13	4
	WEATHERED SHALE	VISUAL		

- BORING LOCATION - PLAN VIEW.
- DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.
- *WC* — INDICATES WATER CONTENT IN PERCENT.
- N_{60} — INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.
- *X/Y/Z* — NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT):
  X= NUMBER OF BLOWS FOR FIRST 6 INCHES.
  Y= NUMBER OF BLOWS FOR SECOND 6 INCHES.
  Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.
- W— INDICATES FREE WATER ELEVATION.
- INDICATES STATIC WATER ELEVATION.
- INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.
- INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.
- SS — INDICATES A SPLIT SPOON SAMPLE.
- ST — INDICATES AN UNDISTURBED SAMPLE.
- NP — INDICATES A NON-PLASTIC SAMPLE.
- TR — INDICATES THE TOP OF ROCK.



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

PARTICLE SIZE DEFINITIONS

12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm
BOULDERS |	COBBLES |	GRAVEL |	COARSE SAND |	FINE SAND |	SILT | CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE	

RECON. - S.E./R.W. - 3/19/2013
DRILLING - R.W. - 3/19,20/13
DRAWN - C.H. - 8/28/13
REVIEWED - S.E. - 9/18/2013

DESIGN AGENCY
BARR & PREVOST
2800 CORPORATE EXCHANGE DR., STE 240
COLUMBUS, OH 43231
(614) 714-0270 FAX (614) 714-0323

PID NO. 88407

STRUCTURE FOUNDATION EXPLORATION
BOGART ROAD CULVERT OVER LINDSLEY DITCH

ERI-250-0.00

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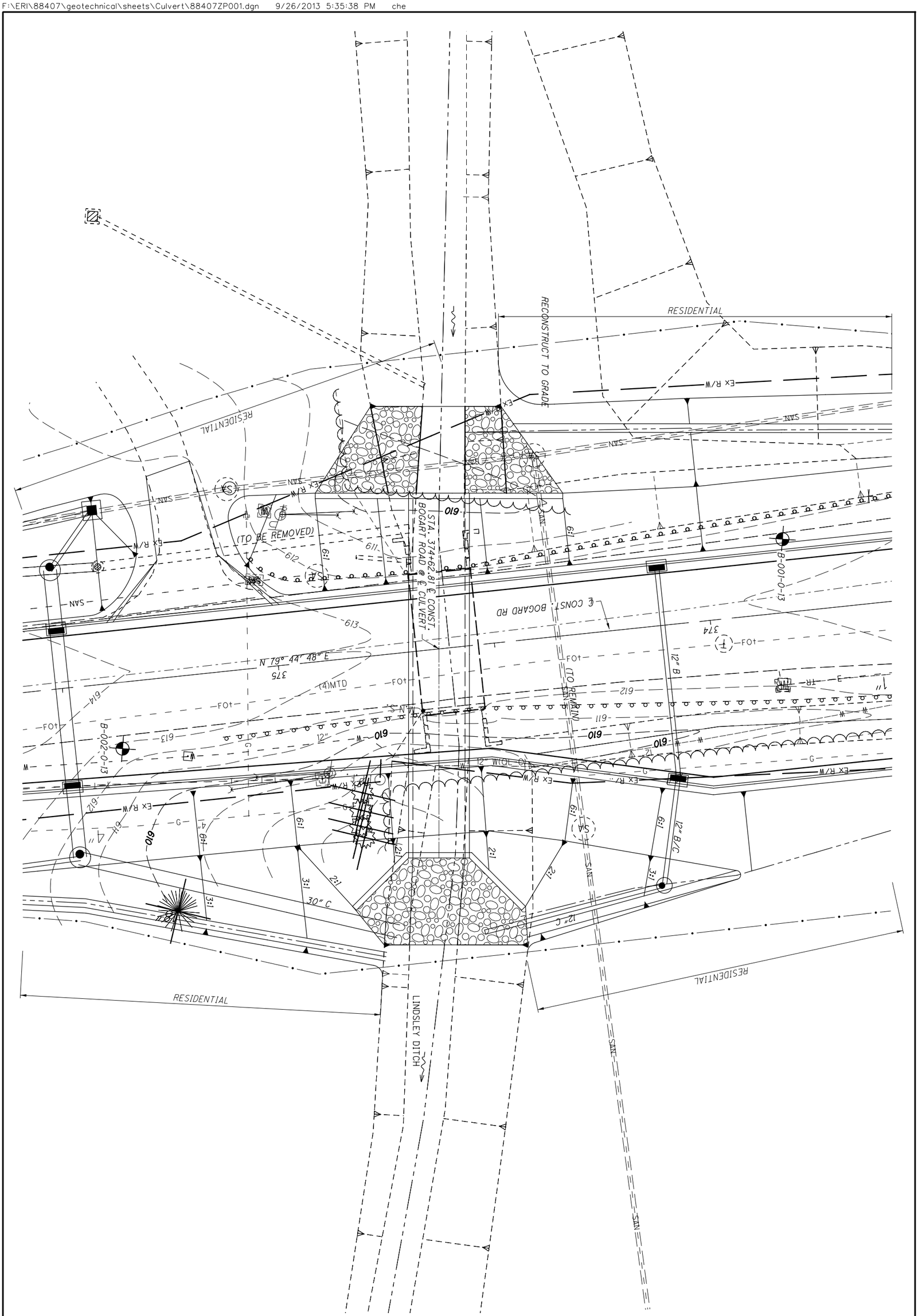
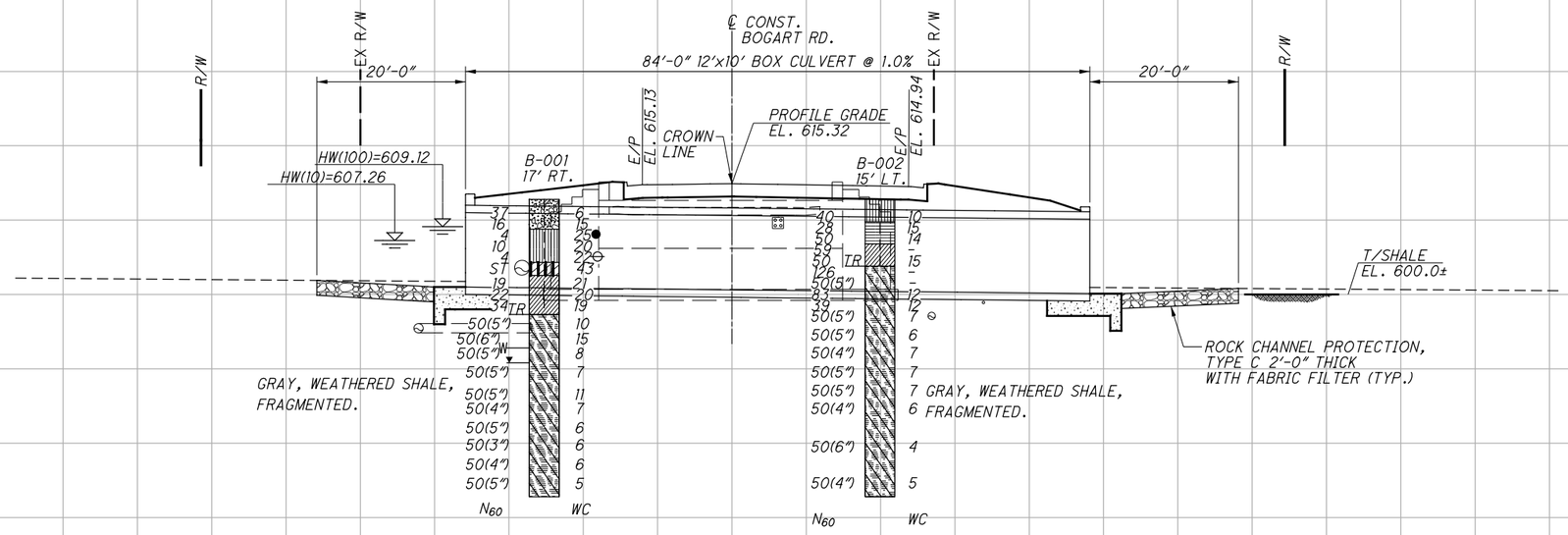


14/18	ERI-250-0.00	STRUCTURE FOUNDATION EXPLORATION BOGART RD CULVERT OVER LINDSLEY DITCH	DRAWN CMH CHECKED SE	0 5 10 20 HORIZONTAL SCALE IN FEET	N



LONGITUDINAL SECTION ALONG ℄ CULVERT

HORIZONTAL SCALE IN FEET
0 5 10 20

DRAWN CMH
CHECKED SE

STRUCTURE FOUNDATION EXPLORATION
BOGART RD CULVERT OVER LINDSLEY DITCH

ERI-250-0.00

15
18

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PROJECT: ERI-250-00.00	DRILLING FIRM / OPERATOR: B&P / R.WEBB	DRILL RIG: MOBILE B61 TRUCK	STATION / OFFSET: 373+82, 17.0 RT	EXPLORATION ID B-001-0-13
TYPE: CULVERT REPLACEMENT	SAMPLING FIRM / LOGGER: B&P / P.MCINTYRE	HAMMER: DIEDRICH AUTOMATIC	ALIGNMENT: BOGART ROAD	
PID: 88407 BR ID:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 6/30/11	ELEVATION: 612.8 (MSL), EOB: 40.0 ft.	PAGE 1 OF 1
START: 3/19/13 END: 3/19/13	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	COORD: 630076.496 N, 1927317.069 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE TO MEDIUM DENSE, BROWN, GRAY AND DARK BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, TRACE CLAY, DAMP TO WET **(FILL)**	612.8		8 9 16	37	78	SS-1	-	60	12	8	12	8	19	15	4	6	A-1-b (0)	
			6 6 5	16	83	SS-2	-	-	-	-	-	-	-	-	-	15	A-1-b (V)	
VERY LOOSE TO LOOSE, BROWN AND GRAY, **SANDY SILT**, LITTLE TO SOME CLAY, TRACE GRAVEL, WET	608.8		2 2 1	4	83	SS-3	0.9 - 1.2	0	5	27	44	24	23	18	5	25	A-4a (7)	
			2 3 4	10	89	SS-4	-	3	4	40	38	15	NP	NP	NP	20	A-4a (4)	
	604.3		2 2 1	4	83	SS-5	0.7 - 1.0	-	-	-	-	-	-	-	-	22	A-4a (V)	
STIFF, DARK BROWN, **ELASTIC CLAY**, "AND" SILT, SOME CLAY, TRACE GRAVEL, UNCONFINED: 976.5 PSF @7.5% STRAIN, MOIST	602.6				122	ST-6	1.0 - 1.25	1	1	22	38	38	54	30	24	43	A-7-5 (16)	
HARD, GRAY MOTTLED WITH BROWN, **CLAY**, SOME SILT, TRACE SAND, DAMP			3 5 8	19	83	SS-7	4.5+	0	0	1	25	74	49	22	27	21	A-7-6 (17)	
			3 5 10	22	67	SS-8	4.5+	-	-	-	-	-	-	-	-	20	A-7-6 (V)	
	597.3		2 5 18	34	61	SS-9	4.5+	0	0	1	32	67	49	22	27	19	A-7-6 (17)	
GRAY, **WEATHERED SHALE** FRAGMENTED DECOMPOSES TO: hard,gray,**CLAY**,"and" silt, trace sand, trace gravel.		TR																
			18 39 50/5"	-	82	SS-10	-	0	0	0	38	62	44	21	23	10	A-7-6 (14)	
			25 50/6"	-	87	SS-11	-	-	-	-	-	-	-	-	-	15	Rock (V)	
		W																
			50/5"	-	100	SS-12	-	-	-	-	-	-	-	-	-	8	Rock (V)	
			50/5"	-	100	SS-13	-	-	-	-	-	-	-	-	-	7	Rock (V)	
			25 50/5"	-	82	SS-14	-	3	0	0	40	57	44	22	22	11	A-7-6 (14)	
			50/4"	-	100	SS-15	-	-	-	-	-	-	-	-	-	7	Rock (V)	
			50/5"	-	100	SS-16	-	-	-	-	-	-	-	-	-	6	Rock (V)	
			50/3"	-	100	SS-17	-	-	-	-	-	-	-	-	-	6	Rock (V)	
			50/4"	-	100	SS-18	-	-	-	-	-	-	-	-	-	6	Rock (V)	
			50/5"	-	100	SS-19	-	-	-	-	-	-	-	-	-	5	Rock (V)	
	572.8	EOB																

NOTES: GROUNDWATER ENCOUNTERED AT 20.0' DURING DRILLING, 22.0' AFTER DRILLING. WATER LEVEL IN CREEK AT 9.0'. CAVE DEPTH 26.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; POURED .5 BAG BENTONITE CHIPS; PUMPED 20 GAL. BENTONITE GROUT; POURED 1 BAG CEMENT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 9/18/13 10:21 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ERI-250-0.00\CULVERT 2013\ERIE-250 CULVERT.GPJ

PROJECT: ERI-250-00.00	DRILLING FIRM / OPERATOR: B&P / R.WEBB	DRILL RIG: MOBILE B61 TRUCK	STATION / OFFSET: 375+38, 15.0 LT	EXPLORATION ID B-002-0-13
TYPE: CULVERT REPLACEMENT	SAMPLING FIRM / LOGGER: B&P / P.MCINTYRE	HAMMER: DIEDRICH AUTOMATIC	ALIGNMENT: BOGART ROAD	
PID: 88407 BR ID:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 6/30/11	ELEVATION: 612.8 (MSL), EOB: 40.0 ft.	PAGE 1 OF 1
START: 3/20/13 END: 3/20/13	SAMPLING METHOD: SPT	ENERGY RATIO (%): 89	COORD: 630135.867 N, 1927465.009 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 612.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE, BROWN, **SANDY SILT**, LITTLE GRAVEL, TRACE CLAY, DAMP **(FILL)**			16 15 12	40	89	SS-1	-	15	20	28	28	9	NP	NP	NP	10	A-4a (0)	
	609.8																	
HARD, BROWN MOTTLED WITH GRAY, **SILTY CLAY**, LITTLE SAND, TRACE GRAVEL, DAMP			6 8 11	28	94	SS-2	4.5+	9	7	12	29	43	34	18	16	15	A-6b (10)	
	606.8		8 19 15	50	44	SS-3	4.5+	-	-	-	-	-	-	-	-	14	A-6b (V)	
HARD, BROWN MOTTLED WITH GRAY, **SILT AND CLAY**, LITTLE SAND, LITTLE GRAVEL, DAMP @6.0'; SS-4 NO RECOVERY			21 20 20	59	0	SS-4	-	-	-	-	-	-	-	-	-	-		
	603.8	TR	30 16 18	50	89	SS-5	4.5+	11	7	11	27	44	32	17	15	15	A-6a (9)	
GRAY, **WEATHERED SHALE** FRAGMENTED DECOMPOSES TO: hard,gray,**CLAY**,"and" silt, trace sand, trace to little gravel. @9.0'; SS-6 AND SS-7 NO RECOVERY			21 35 50	126	0	SS-6	-	-	-	-	-	-	-	-	-	-		
			50/5"	-	0	SS-7	-	-	-	-	-	-	-	-	-	-		
			18 21 35	83	83	SS-8	-	1	2	1	35	61	44	18	26	12	A-7-6 (15)	
			10 8 18	39	28	SS-9	-	-	-	-	-	-	-	-	-	12		
			50/5"	-	100	SS-10	-	-	-	-	-	-	-	-	-	7	Rock (V)	
			50/5"	-	100	SS-11	-	-	-	-	-	-	-	-	-	6	Rock (V)	
			50/4"	-	100	SS-12	-	16	0	0	40	44	43	21	22	7	A-7-6 (13)	
			50/5"	-	100	SS-13	-	-	-	-	-	-	-	-	-	7	Rock (V)	
			50/5"	-	100	SS-14	-	-	-	-	-	-	-	-	-	7	Rock (V)	
			50/4"	-	100	SS-15	-	-	-	-	-	-	-	-	-	6	Rock (V)	
			50/6"	-	91	SS-16	-	-	-	-	-	-	-	-	-	4	Rock (V)	
			50/4"	-	100	SS-17	-	-	-	-	-	-	-	-	-	5	Rock (V)	
	572.8	EOB																

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. CAVE DEPTH 27.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED .5 BAG ASPHALT PATCH; POURED 1 BAG BENTONITE CHIPS; POURED 1 BAG CEMENT

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 9/18/13 10:20 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ERI-250-0.00\CULVERT 2013\ERIE-250 CULVERT.GPJ

BARR & PREVOST
ENGINEERING | TESTING | SURVEYING

5710 Westbourne Avenue
Columbus, OH 43213
614-892-0162

Unconfined Compressive Strength Test

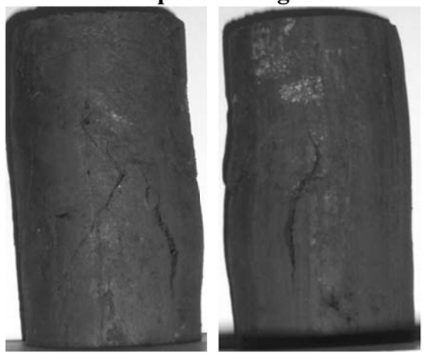
(Project: ERI-250 -0.00 , Boring Location: B-001-0-13, ST-6, Depth: 9.25-9.75 ft)

Tested Date: 4/2/2013

Specimen Properties

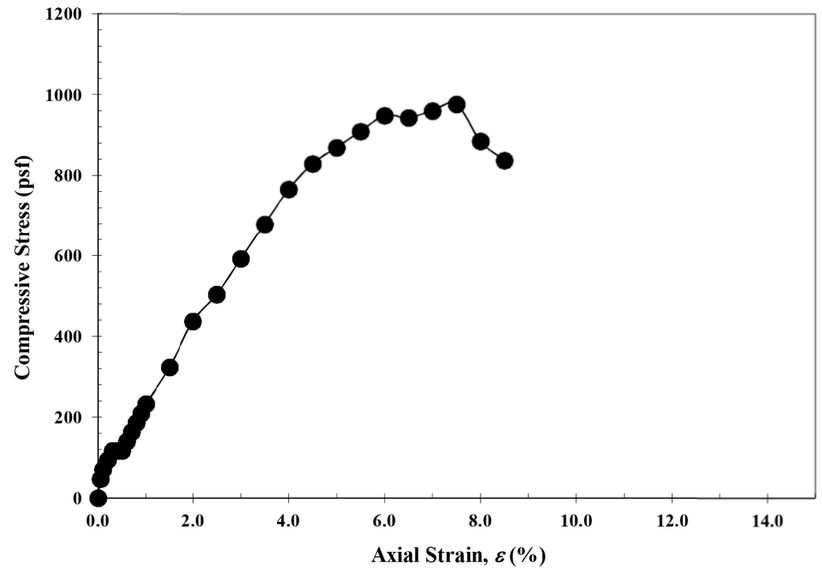
Average Dia., D_{avg} (in):	2.80
Average Height, H_{avg} (in):	5.98
Area, A (in^2):	6.14
Volume, V (in^3):	36.70
Wet Mass of Specimen (lb):	2.4
Moisture Content (%):	34.3
Dry Mass of Specimen (lb):	1.8
Wet Unit Weight, γ (lb/ft^3):	112.4
Dry Unit Weight, γ_d (lb/ft^3):	83.7

Final Specimen Figure



Results

Unconfined Compressive Strength (psf):	**976.5**
Strain (%):	**7.5**



Notes: Soft, dark gray-brown, ELASTIC CLAY, "and" silt, some sand, trace gravel.

DRAWN CMH CHECKED SE

SUMMARY OF LAB TEST DATA

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **1**
Plan Scale **1" = 20'**
Sheet # **23**
Proposed **12" STORM X-ING**
Date **MARCH 27, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SYCAMORE LINE JUST NORTH OF CLEVELAND AVE.**
Recorded Size/Material/Type **6" C.I. WATER LINE & 6" STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. RDWY. IN GOOD CONDITION**

B.M. 1 Elev. = **595.98'** is **GIVEN**
Description: **(CPO2) TOP OF MAG NAIL FOUND, 31.83' RT OF R/W & CONST. CL STA 5+69.64, SYCAMORE LINE**

B.M. 2 Elev. = **597.71'** is **GIVEN**
Description: **(BM) TOP OF OPERATING NUT OF F.H., 36'± RT OF R/W & CONST. CL STA 2+23±, SYCAMORE LINE**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS NOT** in good condition **SEE REMARKS**

Paving Thickness and type **4" ASP. & 6" CONC.**

Color of ribbon installed **BLUE & YELLOW**

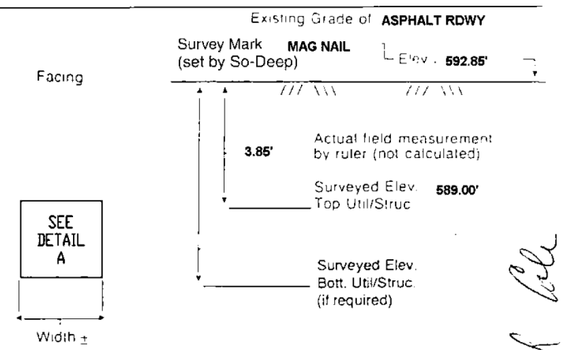
Soil Type **MOIST BROWN W/ROCK**

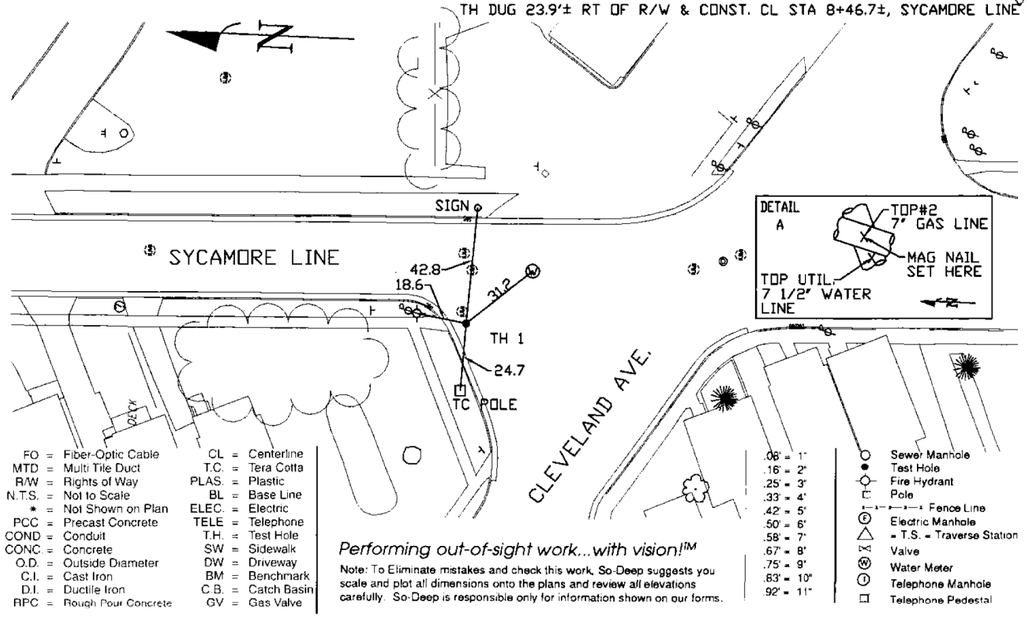
Truck Location **ASP. RDWY.**

T.H. tied to **MAG NAIL**

7 1/2" METALLIC WATER LINE & 7" METALLIC GAS LINE*
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW FOUND THE GAS LINE CROSSING ABOVE THE WATER LINE AT AN ANGLE FROM NORTH TO SOUTH. CREW ALSO FOUND BOTH THE 7 1/2" WATER LINE AND THE 7" GAS LINE HEAVILY CORRODED AT THIS LOCATION.





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T.C. = Tera Cotta
PLAS. = Plastic
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SW = Sidewalk
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C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **2**
Plan Scale **1" = 20'**
Sheet # **23**
Proposed **12" STORM X-ING**
Date **MARCH 27, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SYCAMORE LINE JUST NORTH OF CLEVELAND AVE.**
Recorded Size/Material/Type **6" C.I. WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. RDWY. IN GOOD CONDITION**

B.M. 1 Elev. = **595.98'** is **GIVEN**
Description: **(CPO2) TOP OF MAG NAIL FOUND, 31.83' RT OF R/W & CONST. CL STA 5+69.64, SYCAMORE LINE**

B.M. 2 Elev. = **597.71'** is **GIVEN**
Description: **(BM) TOP OF OPERATING NUT OF F.H., 36'± RT OF R/W & CONST. CL STA 2+23±, SYCAMORE LINE**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS NOT** in good condition **SEE REMARKS**

Paving Thickness and type **6" ASPHALT**

Color of ribbon installed **BLUE**

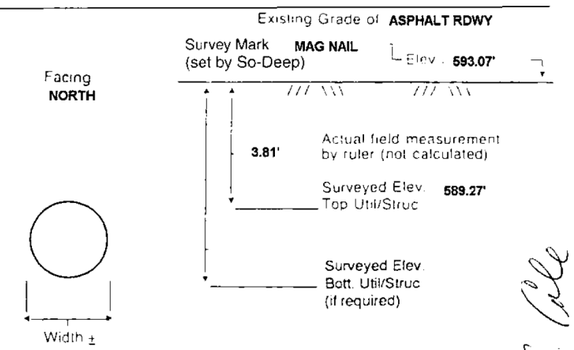
Soil Type **MOIST BROWN W/ROCK**

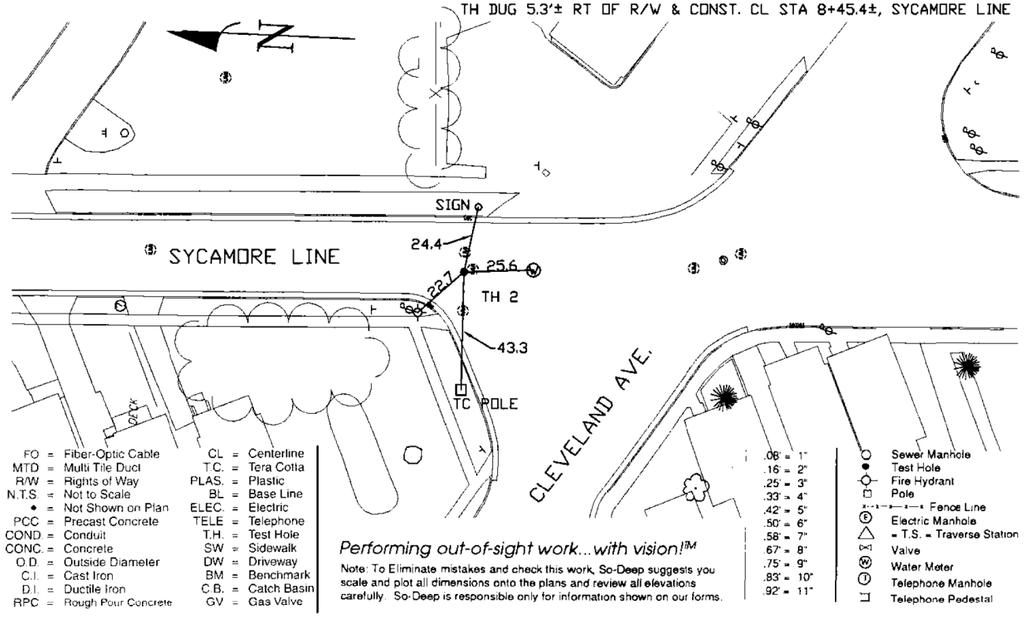
Truck Location **ASP. RDWY.**

T.H. tied to **MAG NAIL**

7 1/2" METALLIC WATER LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: CREW FOUND THE 7 1/2" WATER LINE HEAVILY CORRODED AT THIS LOCATION.





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
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◆ = Not Shown on Plan
PCC = Precast Concrete
COND = Conduit
CONC = Concrete
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RPC = Rough Pour Concrete

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T.C. = Tera Cotta
PLAS. = Plastic
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Sewer Manhole
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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #1 & #2

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **3**
Plan Scale **1" = 20'**
Sheet # **23**
Proposed **SIGNAL POLE**
Date **MARCH 27, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SE CORNER SYCAMORE LINE & CLEVELAND AVE.**
Recorded Size/Material/Type **UNK. SIZE & TYPE ELEC. CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **595.98'** is **GIVEN**
Description: **(CPO2) TOP OF MAG NAIL FOUND, 31.83' RT OF R/W & CONST. CL STA 5+69.64, SYCAMORE LINE**

B.M. 2 Elev. = **597.71'** is **GIVEN**
Description: **(BM) TOP OF OPERATING NUT OF F.H., 36'± RT OF R/W & CONST. CL STA 2+23±, SYCAMORE LINE**

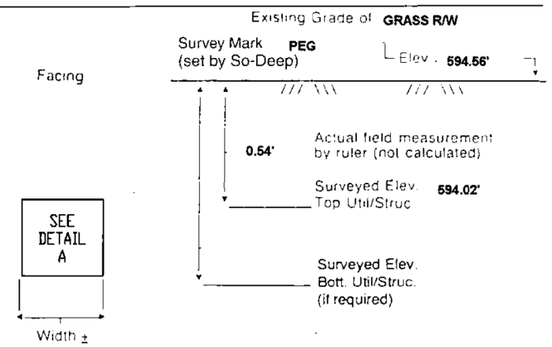
Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

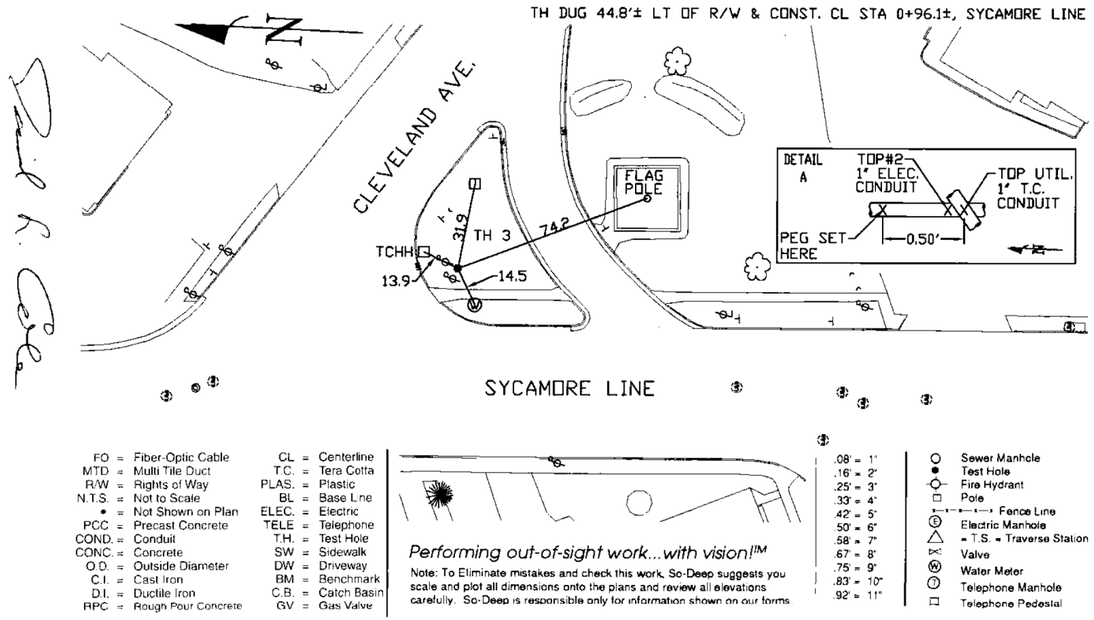
Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASP. RDWY.**
T.H. tied to **PEG**

1" STEEL ELEC. CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW ALSO FOUND A 1" PLASTIC TRAFFIC CONTROL CONDUIT CROSSING ABOVE THE 1" STEEL ELEC. CONDUIT AT AN ANGLE FROM THE NE TO SW.



TOP#2
ELEV. 593.20
ACTUAL 1.36



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D.I. = Ductile Iron
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The Subsurface Utility Engineering Company
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Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **4**
Plan Scale **1"=20'**
Sheet # **22**
Proposed **SIGNAL POLE**
Date **MARCH 27, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **FRONT OF BLDG. #1674, MILAN ROAD**
Recorded Size/Material/Type **4" STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **599.35'** is **GIVEN**
Description: **(CPO6) 5/8" IRON PIN & CAP FOUND, 33.06' RT OF R/W & CONST. CL STA 19+45.53, SYCAMORE LINE**

B.M. 2 Elev. = **599.75'** is **GIVEN**
Description: **(CP07) 5/8" IRON PIN & CAP FOUND, 33.62' LT OF R/W & CONST. CL STA 24+88.55, SYCAMORE LINE**

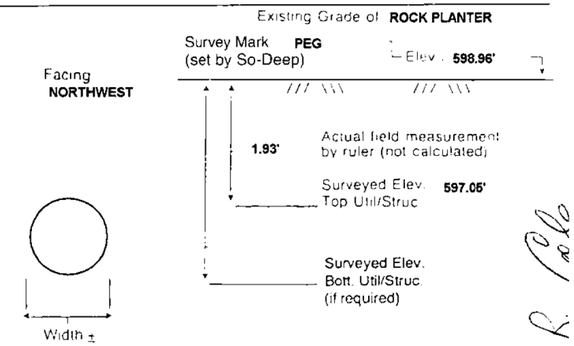
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

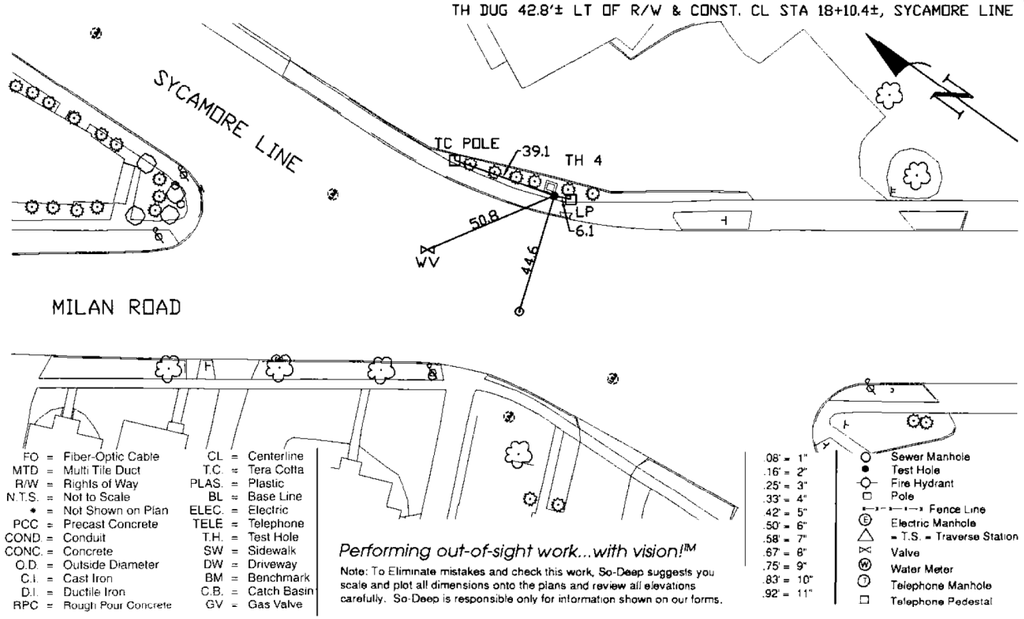
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASP. P-LOT**
T.H. tied to **PEG**

4 1/2" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
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PCC = Precast Concrete
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TELE = Telephone
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BM = Benchmark
C.B. = Catch Basin
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Performing out-of-sight work...with vision!™

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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #3 & #4

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **5**
Plan Scale **1"=20'**
Sheet # **21**
Proposed **12" STORM X-ING**
Date **APRIL 2, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW OF SANDUSKY DR. NORTH**
Recorded Size/Material/Type **6" C.I. WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. RDWY. IN GOOD CONDITION**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **6" ASPHALT**

Color of ribbon installed **BLUE**

Soil Type **WET BROWN W/ROCK**

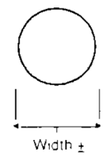
Truck Location **ASPHALT RDWY**

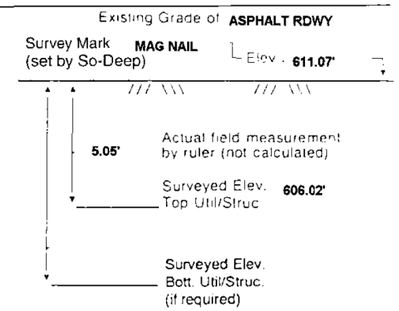
T.H. tied to **MAG NAIL**

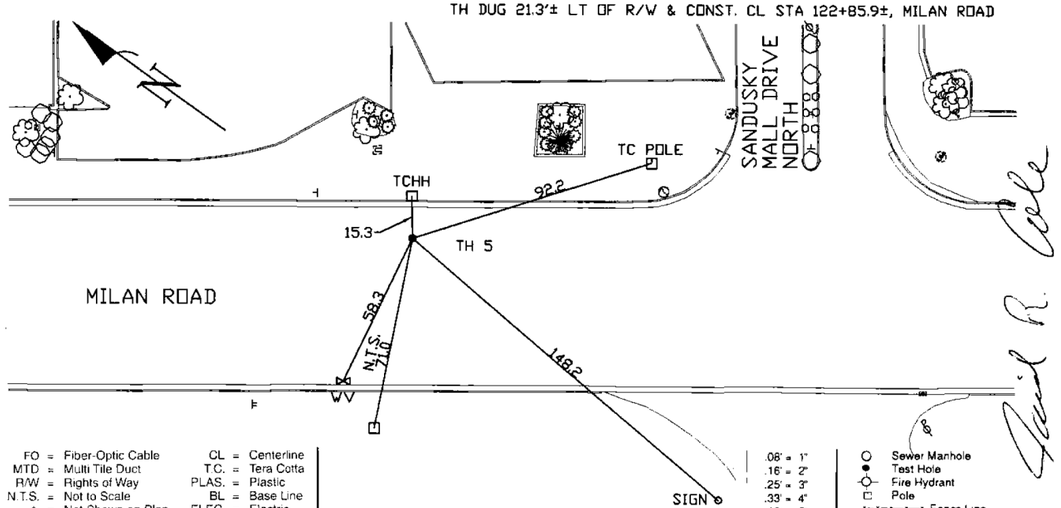
7" C.I. WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE

Facing **NORTHWEST**







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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
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Telephone Manhole
Telephone Pedestal

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **6**
Plan Scale **1"=20'**
Sheet # **21**
Proposed **12" STORM X-ING**
Date **APRIL 2, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW OF SANDUSKY DR. NORTH**
Recorded Size/Material/Type **16" C.I. WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. RDWY. IN GOOD CONDITION**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS NOT** in good condition **SEE REMARKS**

Paving Thickness and type **9" ASPHALT**

Color of ribbon installed **BLUE**

Soil Type **WET BROWN W/ROCK**

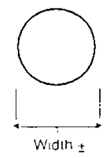
Truck Location **ASPHALT RDWY**

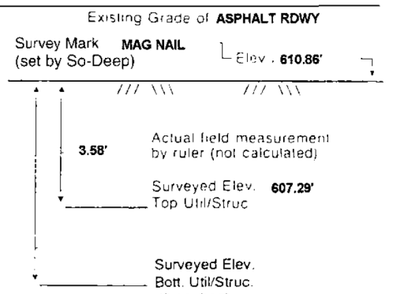
T.H. tied to **MAG NAIL**

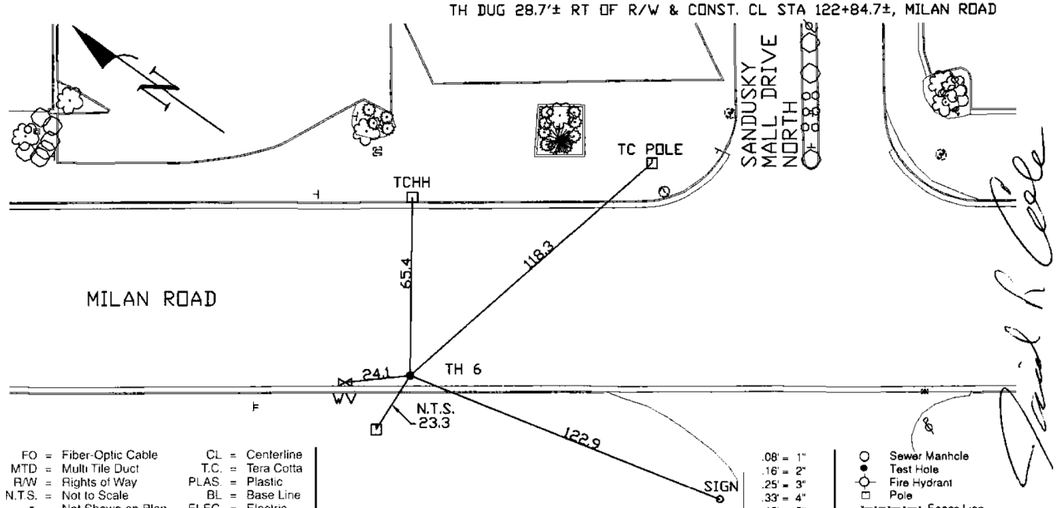
18" METALLIC WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: CREW FOUND THE 18" WATER LINE CORRODED AT THIS LOCATION.

Facing **NORTHWEST**







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Sewer Manhole
Test Hole
Fire Hydrant
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Electric Manhole
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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #5 & #6

ERI-250-0.00

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SO-DEEP US. P.C.
The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **7**
Plan Scale **1"=20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 29, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **15-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'** is **GIVEN**
Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'** is **CALCULATED**
Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

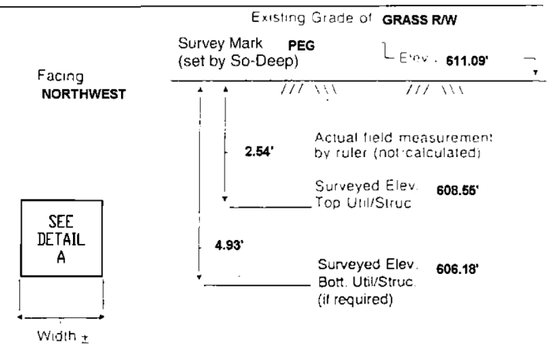
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

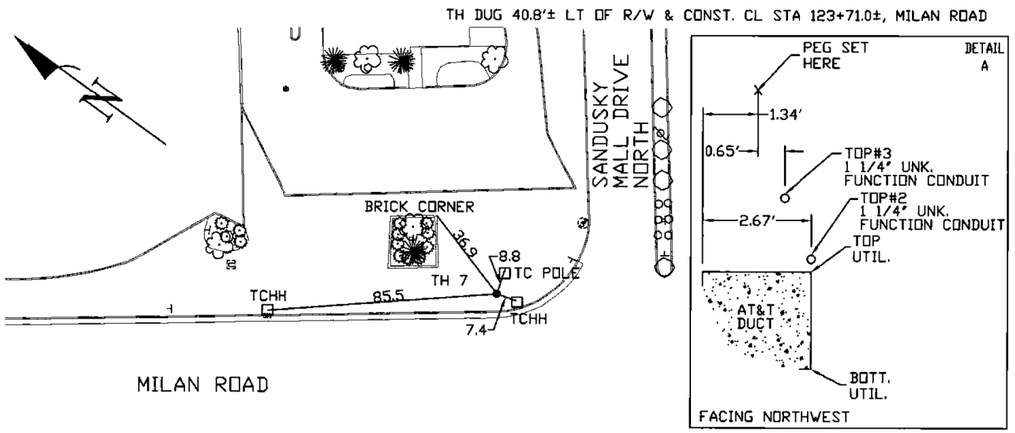
Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE & BLUE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT RDWY**
T.H. tied to **PEG**

2.37' H. X 2.67' W. R.P.C. AT&T (FO) DUCT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Remarks: * CREW ALSO FOUND (2) 1 1/4" PLASTIC UNK. FUNCTION CONDUITS RUNNING ABOVE & PARALLEL TO THE R.P.C. AT&T DUCT.



	TOP#2	TOP#3
ELEV.	608.76	610.47
ACTUAL	2.33	0.61



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Sewer Manhole
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SO-DEEP US. P.C.
The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **8**
Plan Scale **1"=20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 26, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **2" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'** is **GIVEN**
Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'** is **CALCULATED**
Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

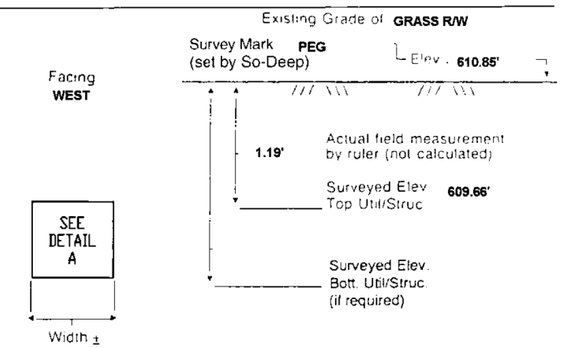
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

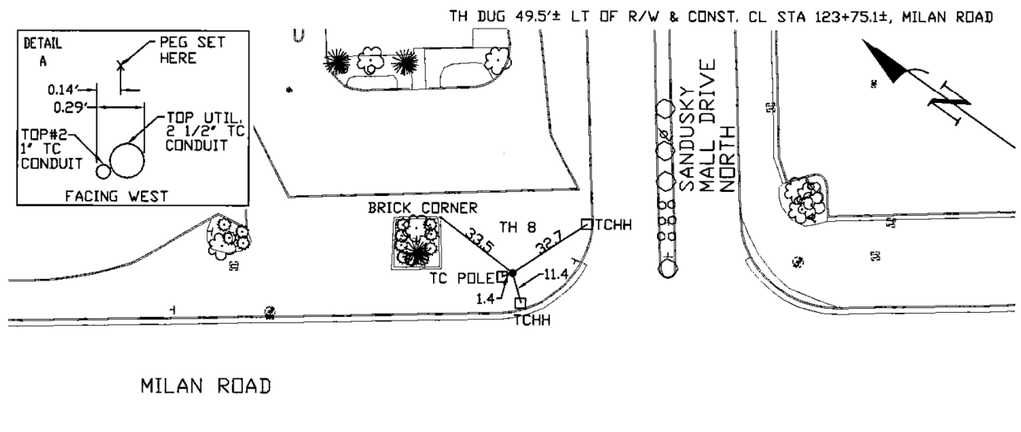
Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASP. RDWY.**
T.H. tied to **PEG**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW ALSO FOUND A 1" STEEL TRAFFIC CONTROL CONDUIT RUNNING BESIDE & PARALLEL TO THE 2 1/2" STEEL TRAFFIC CONTROL CONDUIT.



	TOP#2
ELEV.	609.55
ACTUAL	1.30



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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #7 & #8

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **9**
Plan Scale **1"=20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 26, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **6" STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **MOIST BROWN W/ROCK**

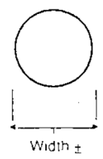
Truck Location **ASP. RDWY.**

T.H. tied to **PEG**

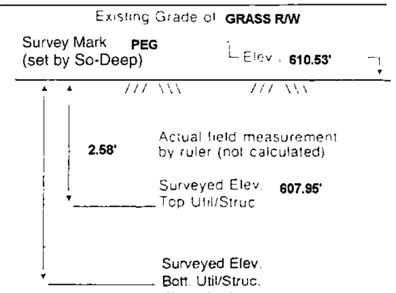
6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

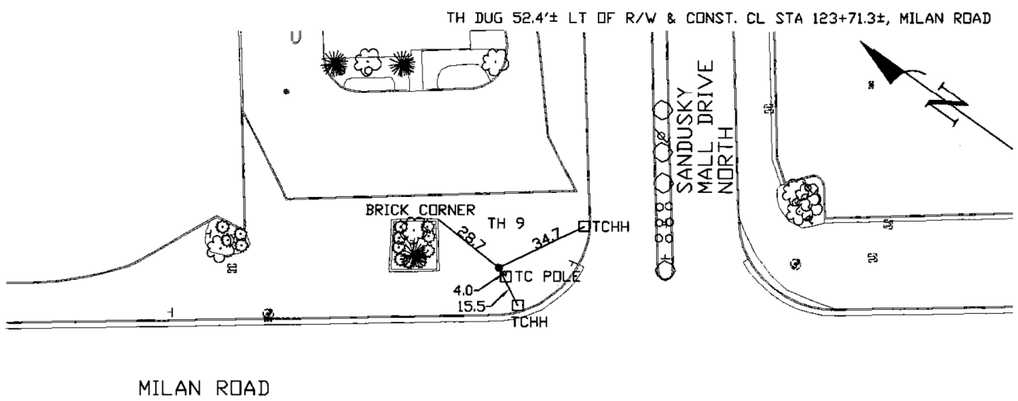
Remarks: NONE

Facing **NORTHWEST**



Existing Grade of **GRASS R/W**





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SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

.08' = 1"
.16' = 2"
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.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **10**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 26, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **W. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE & TYPE FUNCTION UTILITY**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN W/ROCK**

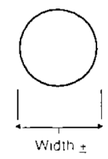
Truck Location **ASP. RDWY.**

T.H. tied to **PEG**

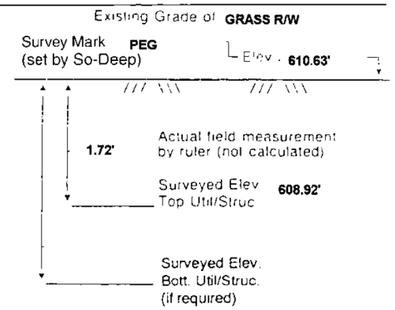
1/4" STEEL ELEC. GROUND WIRE
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

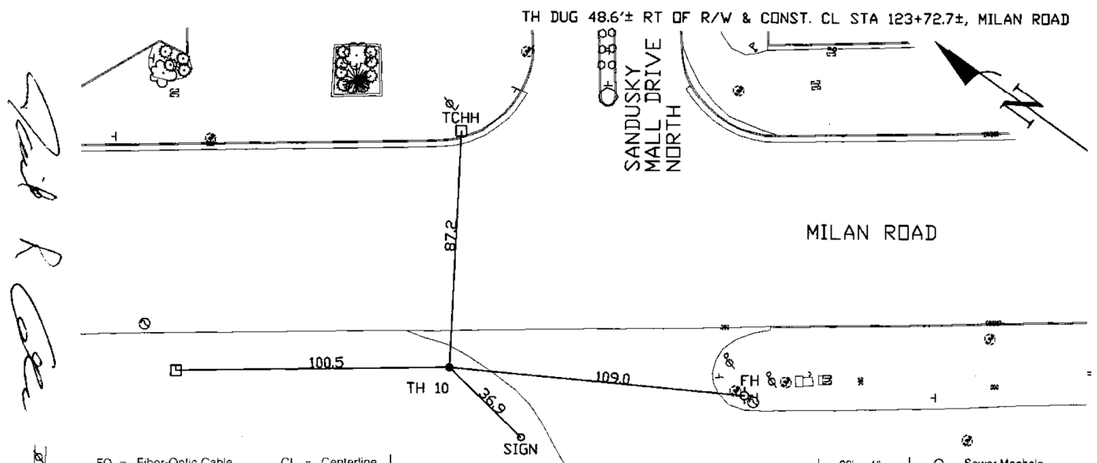
Remarks: NONE

Facing **NORTHWEST**



Existing Grade of **GRASS R/W**





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
✦ = Not Shown on Plan
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COND. = Conduit
CONC. = Concrete
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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #9 & #10

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **11**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 26, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **S. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE & TYPE FUNCTION UTILITY**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'** is **GIVEN**
Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'** is **CALCULATED**
Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

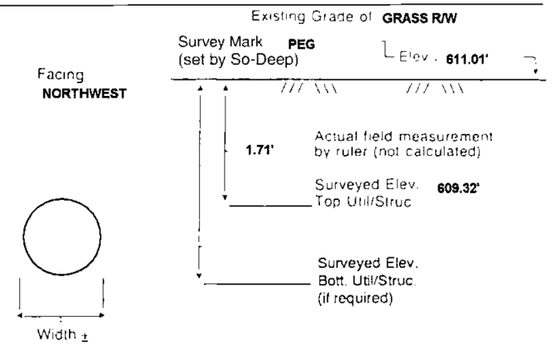
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

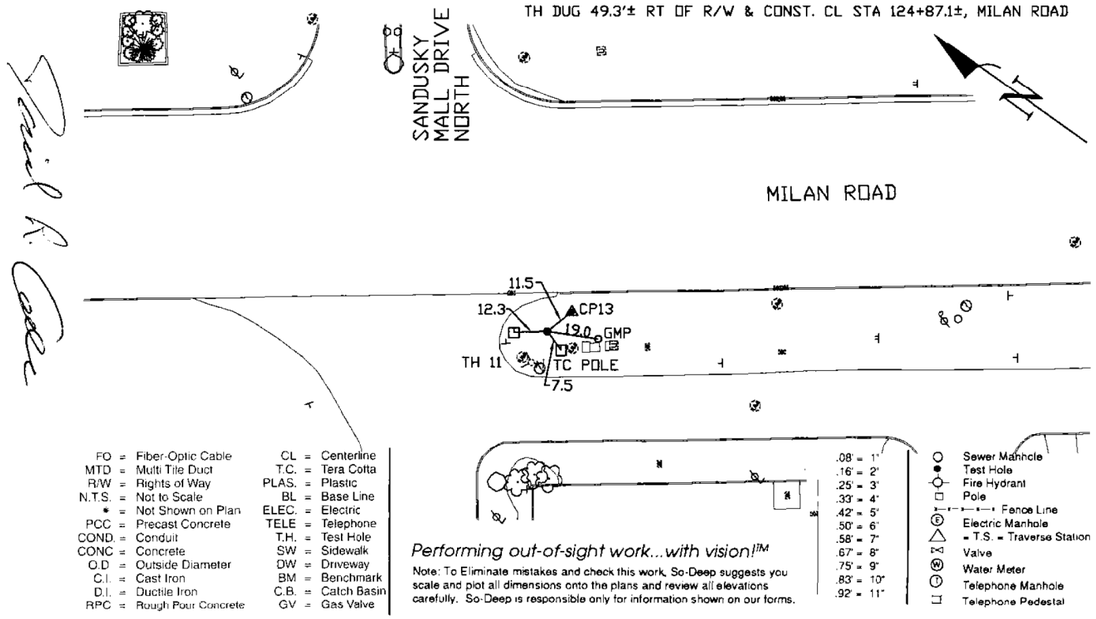
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASP. RDWY.**
T.H. tied to **PEG**

1 1/4" STEEL ELEC. CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





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Sewer Manhole
Test Hole
Fire Hydrant
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Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **12**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 29, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'** is **GIVEN**
Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'** is **CALCULATED**
Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

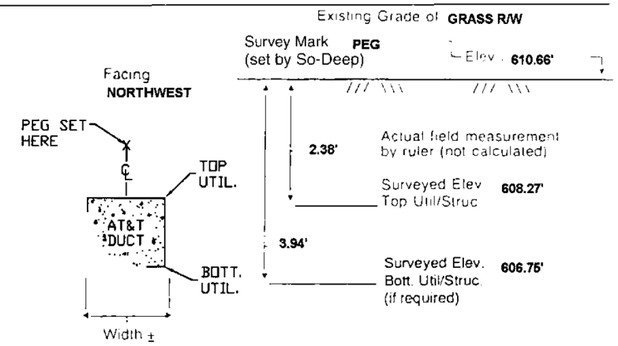
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

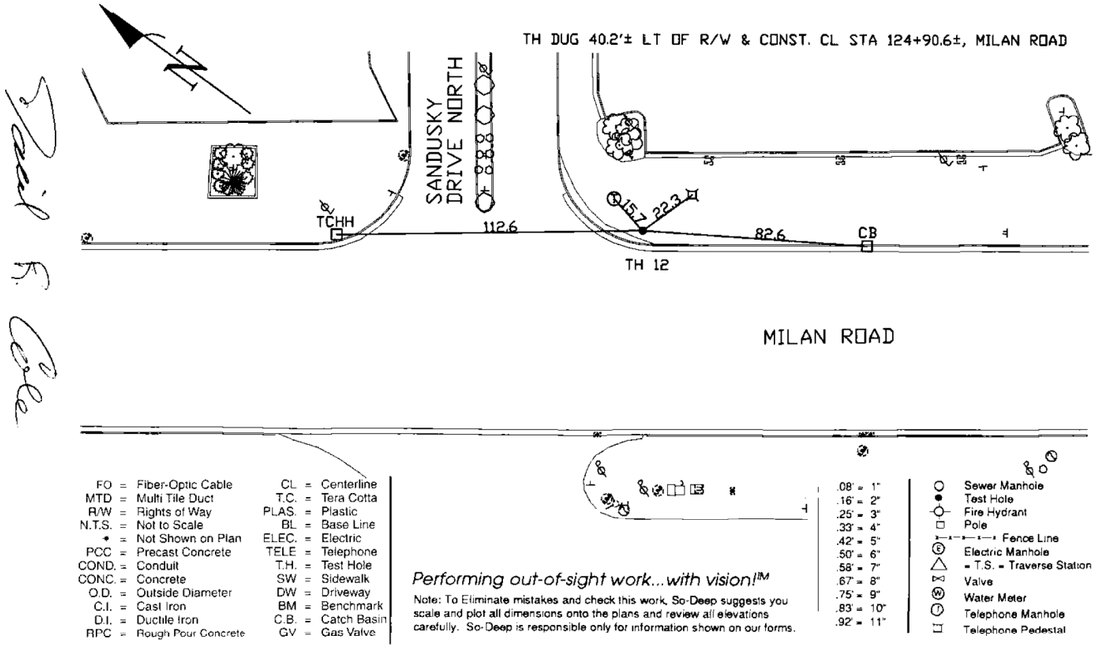
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT RDWY**
T.H. tied to **PEG**

1.52' H. X 1.75' W. R.P.C. AT&T (FO) DUCT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Remarks: NONE





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Sewer Manhole
Test Hole
Fire Hydrant
Pole
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Electric Manhole
= T.S. = Traverse Station
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Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #11 & #12

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **13**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 29, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **SOUTH CORNER PRECAST CONC. AT&T VAULT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**
Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**
Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

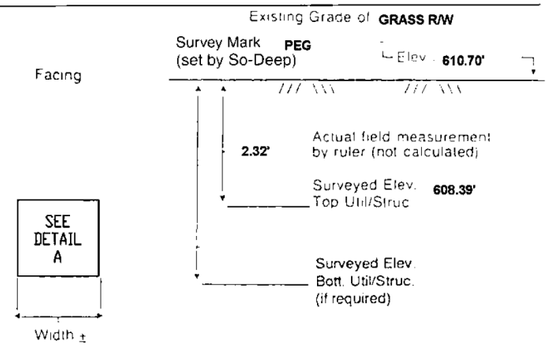
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

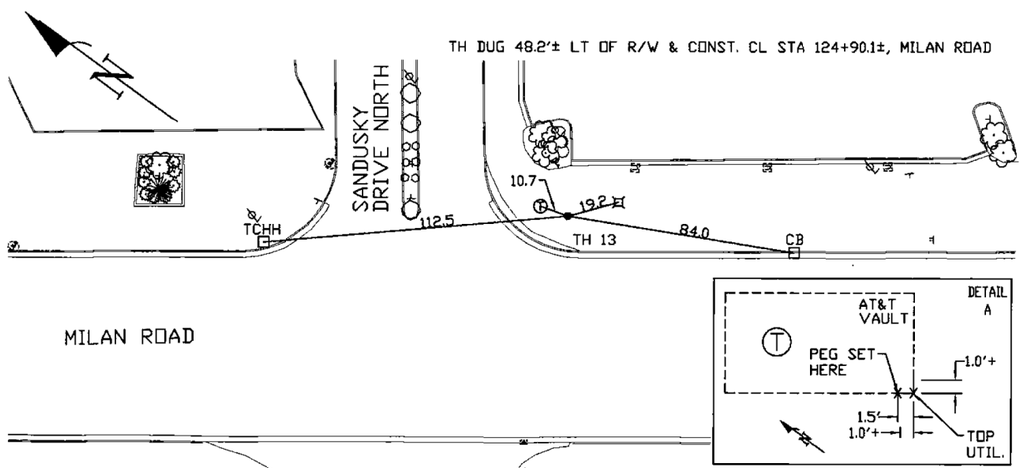
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT RDWY**
T.H. tied to **PEG**

TOP SOUTH CORNER PRECAST CONC. AT&T VAULT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Remarks: NOTE: CHANGED TEST HOLE LOCATION FROM THE 3-WAY AT&T DUCT. THE AT&T DUCT IS NOT IN CONFLICT BUT THE AT&T VAULT IS.





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Sewer Manhole
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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **14**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **CATCH BASIN**
Date **MARCH 29, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **FRONT OF MCDONALD'S MILAN ROAD**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**
Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**
Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

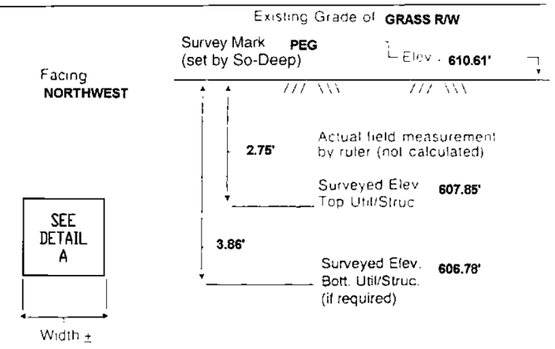
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

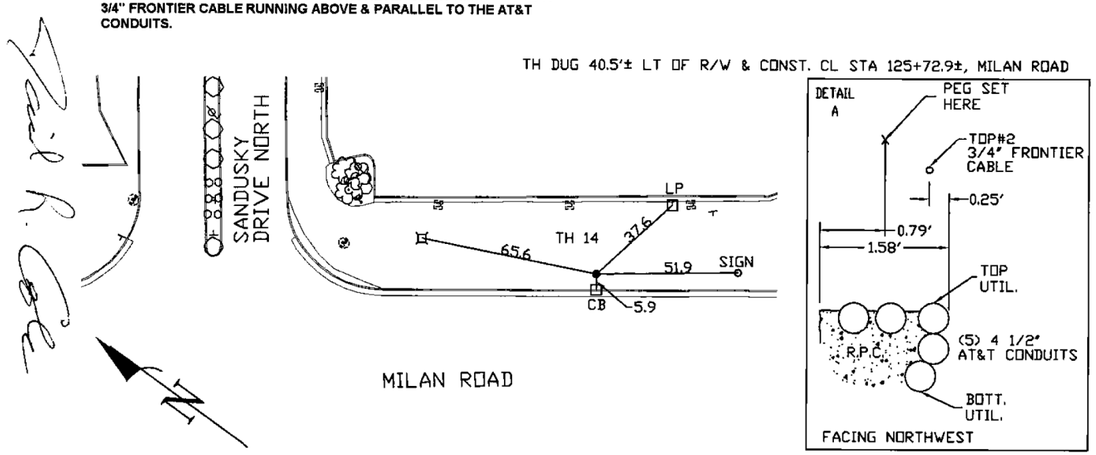
Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT RDWY**
T.H. tied to **PEG**

(5) 4 1/2" PLASTIC (FO) AT&T CONDUITS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)

Remarks: * CREW FOUND (5) 4 1/2" CONDUITS EXPOSED & PARTIALLY EMBEDDED IN ROUGH POUR CONCRETE. AT&T RECORDS INDICATE THAT ADDITIONAL AT&T CONDUITS MAYBE PRESENT BUT LIE HIDDEN FROM VIEW BY THE ROUGH POUR CONCRETE. CREW ALSO FOUND A 3/4" FRONTIER CABLE RUNNING ABOVE & PARALLEL TO THE AT&T CONDUITS.



TOP#2
ELEV. 609.74
ACTUAL 0.88



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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #13 & #14

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **15**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **CATCH BASIN**
Date **MARCH 29, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **FRONT OF BEST BUY MILAN ROAD**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

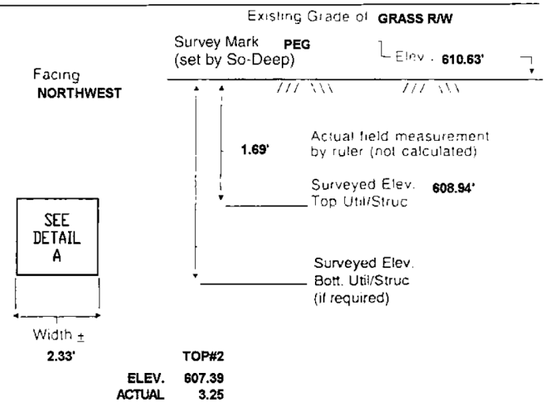
Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT RDWY**

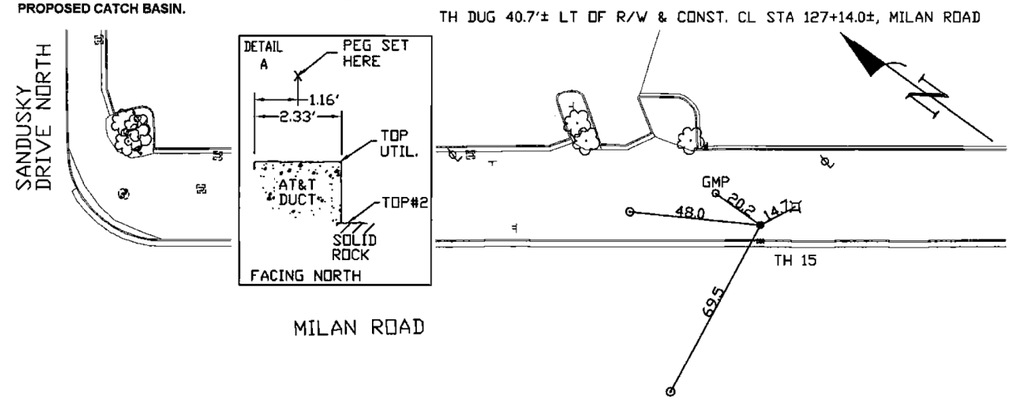
T.H. tied to **PEG**

2.33' W. R.P.C. AT&T (FO) DUCT *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
N/A



Remarks: * CREW COULD NOT OBTAIN AN ACCURATE BOTTOM ELEVATION DUE TO THE SOLID ROCK AT THE BOTTOM OF THE TEST HOLE. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.
NOTE: DATA FOR THE 3/4" FRONTIER CABLE WAS NOT OBTAINED AS FIELD DESIGNATING INDICATES IT IS NOT IN CONFLICT WITH THE PROPOSED CATCH BASIN.

TH DUG 40.7'± LT OF R/W & CONST. CL STA 127+14.0±, MILAN ROAD



Paul R Cole

FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **16**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **CATCH BASIN**
Date **MARCH 29, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **FRONT OF BEST BUY MILAN ROAD**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

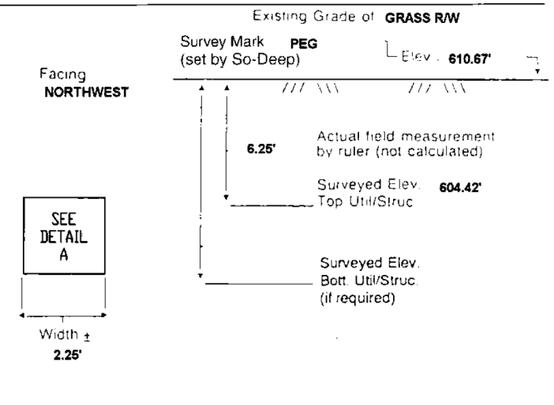
Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT RDWY**

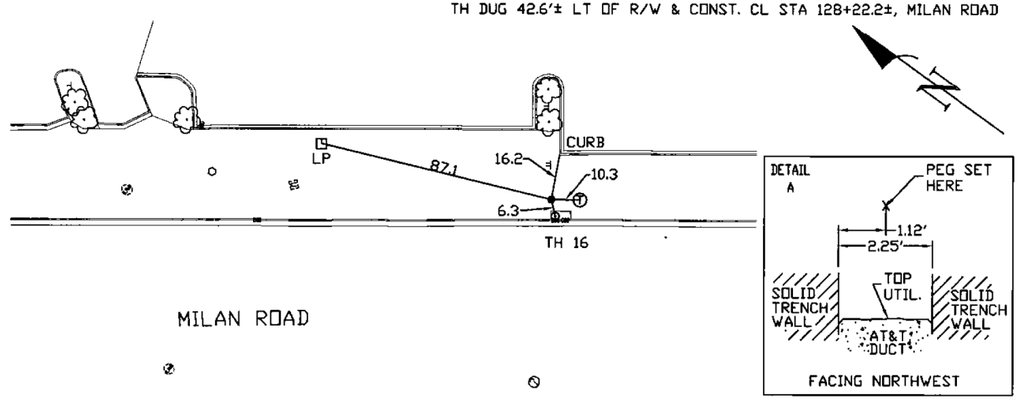
T.H. tied to **PEG**

2.25' W. R.P.C. AT&T (FO) DUCT *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
N/A



Remarks: * CREW COULD NOT OBTAIN A BOTTOM ELEVATION DUE TO THE SOLID TRENCH WALLS OF THE EXCAVATION. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.
NOTE: DATA FOR THE 3/4" FRONTIER CABLE WAS NOT OBTAINED AS FIELD DESIGNATING INDICATES IT IS NOT IN CONFLICT WITH THE PROPOSED CATCH BASIN.

TH DUG 42.6'± LT OF R/W & CONST. CL STA 128+22.2±, MILAN ROAD



Paul R Cole

FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
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* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
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O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
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D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #15 & #16

ERI-250-0.00

I:\5033\010\88407\roadway\sheets\Utility-SO-Deep\88407UP008.dgn 10/17/2014 3:32:40 PM

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **17**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **TRAFFIC CONTROL BOX**
Date **MARCH 26, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **S. CORNER OF MILAN ROAD & SANDUSKY DR. NORTH**
Recorded Size/Material/Type **1 1/4" STEEL ELEC. CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.89'**
is **GIVEN**

Description: **(ERI0250013) TOP OF MONUMENT FOUND, 0.28' RT OF R/W & CONST. CL STA 123+23.11, MILAN ROAD**

B.M. 2 Elev. = **612.61'**
is **CALCULATED**

Description: **(TBM #1) CHIS "X" SET NW MOST BONNET BOLT OF F.H., 61'± RT OF R/W & CONST CL STA 124+81±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

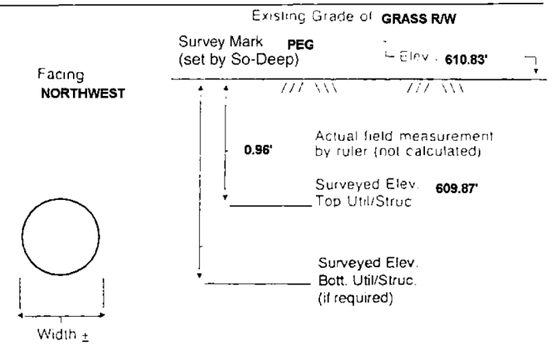
Soil Type **MOIST BROWN W/ROCK**

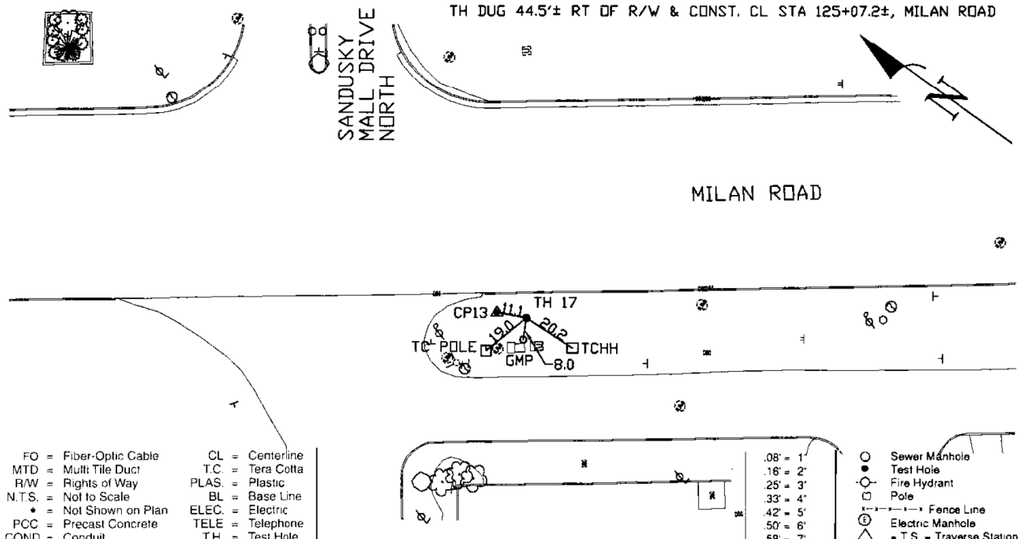
Truck Location **ASP. RDWY.**

T.H. tied to **PEG**

1 1/4" STEEL ELEC. CONDUIT
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Remarks: NONE





FO =	Fiber-Optic Cable	CL =	Centerline
MTD =	Multi Tile Duct	T.C. =	Tera Cotta
R/W =	Rights of Way	PLAS. =	Plastic
N.T.S. =	Not to Scale	BL =	Base Line
* =	Not Shown on Plan	ELEC. =	Electric
PCC =	Precast Concrete	TELE =	Telephone
COND =	Conduit	T.H. =	Test Hole
CONC. =	Concrete	SW =	Sidewalk
O.D. =	Outside Diameter	DW =	Driveway
C.I. =	Cast Iron	BM =	Benchmark
D.I. =	Ductile Iron	C.B. =	Catch Basin
RPC =	Rough Pour Concrete	GV =	Gas Valve

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.50' =	6'
.58' =	7'
.67' =	8'
.75' =	9'
.83' =	10'
.92' =	11'

	Sewer Manhole
	Test Hole
	Fire Hydrant
	Pole
	Fence Line
E	Electric Manhole
	= T.S. = Traverse Station
	Valve
W	Water Meter
T	Telephone Manhole
	Telephone Pedestal

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **18**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **CATCH BASIN**
Date **APRIL 1, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW OF SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'**
is **GIVEN**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **613.70'**
is **GIVEN**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

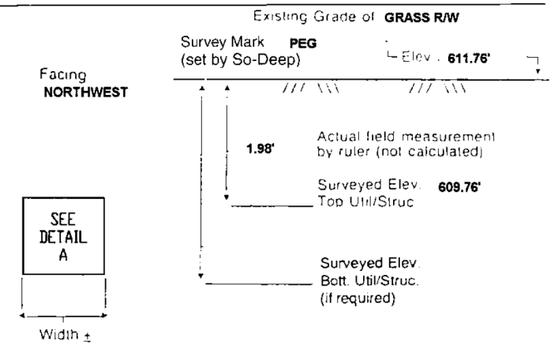
Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT RDWY**

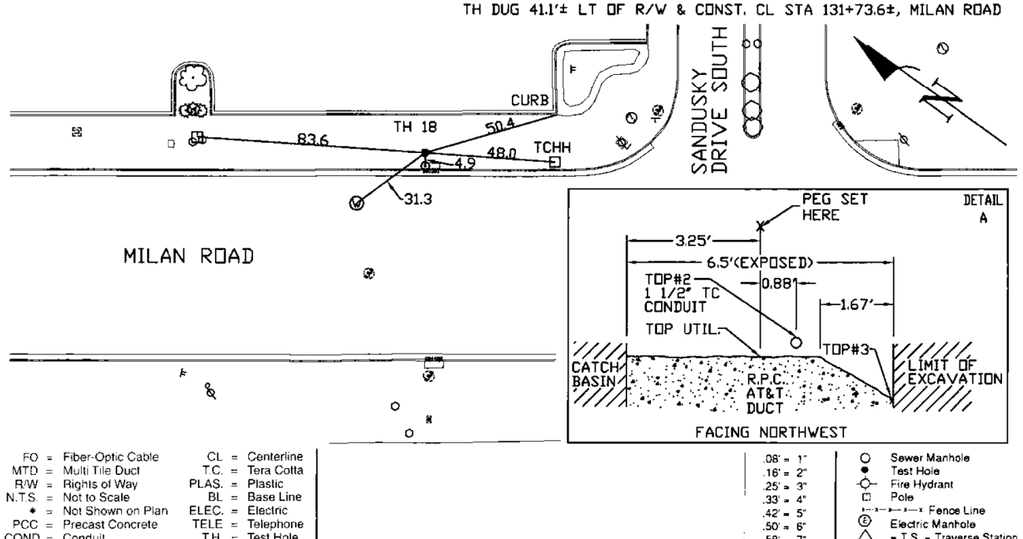
T.H. tied to **PEG**

6.5'+ R.P.C. AT&T (FO) DUCT *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
OTHER, (SEE REMARKS)

Remarks: * CREW COULD NOT OBTAIN AN ACCURATE WIDTH OR BOTTOM ELEVATION DUE TO THE EXCESSIVE OVERPOUR OF CONCRETE. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH & ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY. CREW ALSO FOUND A 1 1/2" STEEL TRAFFIC CONTROL CONDUIT RUNNING ABOVE & PARALLEL TO THE R.P.C. AT&T DUCT.



	TOP#2	TOP#3
ELEV.	610.23	608.76
ACTUAL	1.53	2.97



FO =	Fiber-Optic Cable	CL =	Centerline
MTD =	Multi Tile Duct	T.C. =	Tera Cotta
R/W =	Rights of Way	PLAS. =	Plastic
N.T.S. =	Not to Scale	BL =	Base Line
* =	Not Shown on Plan	ELEC. =	Electric
PCC =	Precast Concrete	TELE =	Telephone
COND. =	Conduit	T.H. =	Test Hole
CONC. =	Concrete	SW =	Sidewalk
O.D. =	Outside Diameter	DW =	Driveway
C.I. =	Cast Iron	BM =	Benchmark
D.I. =	Ductile Iron	C.B. =	Catch Basin
RPC =	Rough Pour Concrete	GV =	Gas Valve

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.08' =	1'
.16' =	2'
.25' =	3'
.33' =	4'
.42' =	5'
.50' =	6'
.58' =	7'
.67' =	8'
.75' =	9'
.83' =	10'
.92' =	11'

	Sewer Manhole
	Test Hole
	Fire Hydrant
	Pole
	Fence Line
E	Electric Manhole
	= T.S. = Traverse Station
	Valve
W	Water Meter
T	Telephone Manhole
	Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #17 & #18

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **19**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **SIGNAL POLE**
Date **APRIL 1, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **2" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**

B.M. 2 Elev. = **613.70'** is **GIVEN**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN W/ROCK**

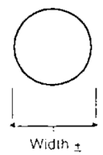
Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Remarks: NONE

Facing **EAST**



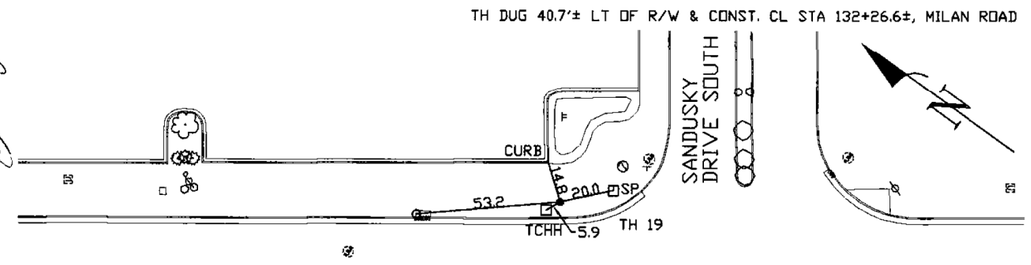
Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **611.82'**

1.35' Actual field measurement by ruler (not calculated)

Surveyed Elev Top Util/Struc **610.45'**

Surveyed Elev. Bott. Util/Struc. (if required)



FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
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D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **20**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **SIGNAL POLE**
Date **MARCH 30, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**

B.M. 2 Elev. = **612.30'** is **GIVEN**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN W/ROCK**

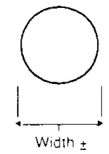
Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

4 1/2" PLASTIC FRONTIER CONDUIT
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Remarks: NONE

Facing **NORTHWEST**



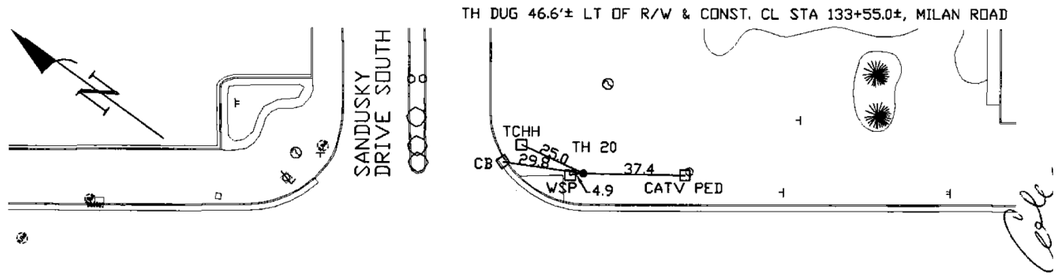
Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **612.65'**

2.94' Actual field measurement by ruler (not calculated)

Surveyed Elev Top Util/Struc **609.72'**

Surveyed Elev. Bott. Util/Struc. (if required)



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RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #19 & #20

SO-DEEP TEST HOLE LEVEL QUALITY A DATA

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **21**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **SIGNAL POLE**
Date **APRIL 1, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **W. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **2" PLASTIC GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'**
is **GIVEN**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **613.70'**
is **GIVEN**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW & RED**

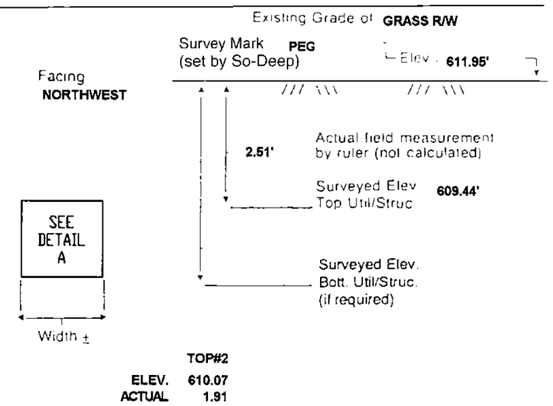
Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT RDWY**

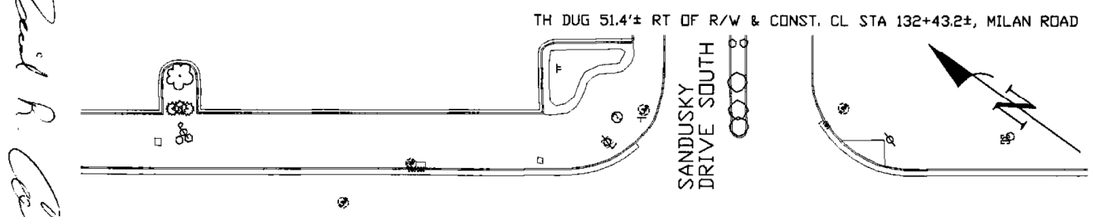
T.H. tied to **PEG**

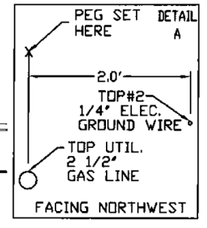
2 1/2" PLASTIC GAS LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW ALSO FOUND A 1/4" ELECTRIC GROUND WIRE RUNNING ABOVE & PARALLEL TO THE 2 1/2" GAS LINE.



TOP#2
ELEV. 610.07
ACTUAL 1.91





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
• = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **24**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **SIGNAL POLE**
Date **MARCH 30, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **6" STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'**
is **GIVEN**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **612.30'**
is **GIVEN**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

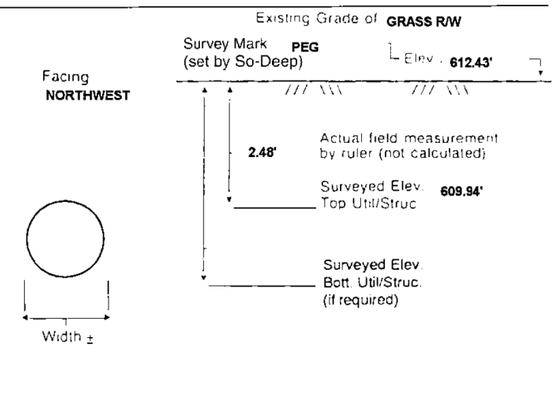
Soil Type **MOIST BROWN W/ROCK**

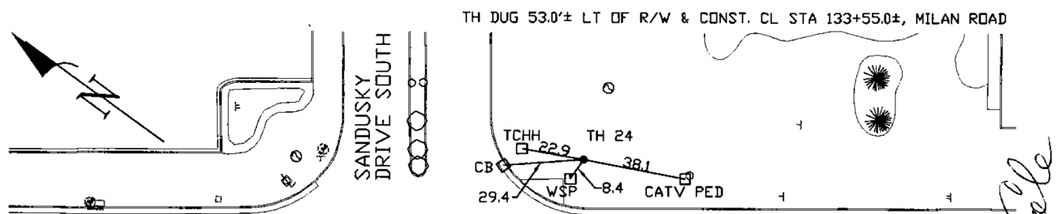
Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

6 1/2" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
• = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #21 & #24

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **25**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **CATCH BASIN**
Date **MARCH 30, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **2" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **612.30'** is **GIVEN**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

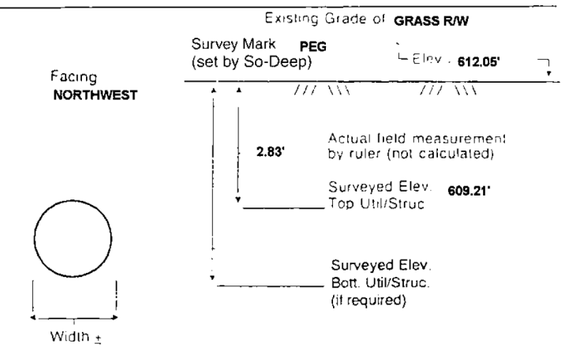
Color of ribbon installed **RED**

Soil Type **MOIST BROWN W/ROCK**

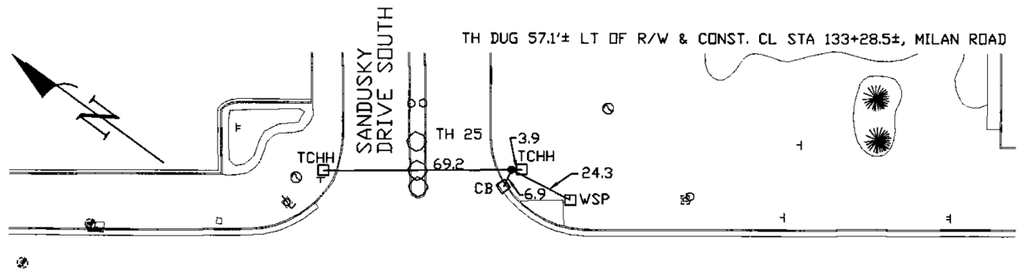
Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

2 1/4" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #26, JOB EZLD902.



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
✦ = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **26**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **CATCH BASIN**
Date **MARCH 30, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **6" STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **612.30'** is **GIVEN**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

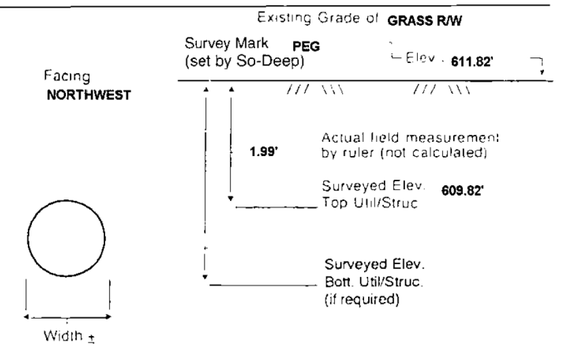
Color of ribbon installed **YELLOW**

Soil Type **MOIST BROWN W/ROCK**

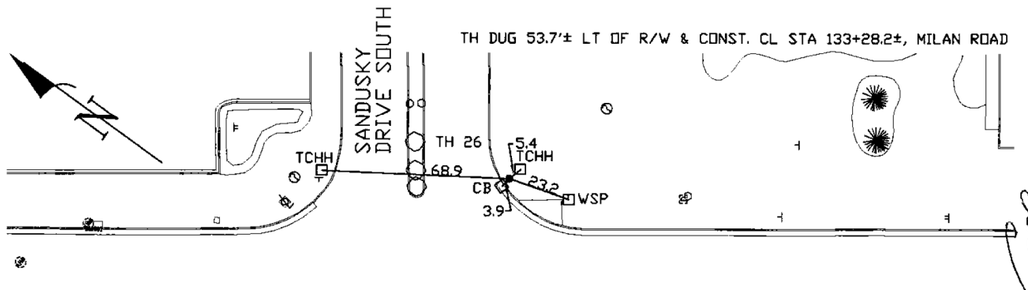
Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

6 1/2" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #26, JOB EZLD902.



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
✦ = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #25 & #26

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **27**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **STORM X-ING**
Date **APRIL 2, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**

B.M. 2 Elev. = **613.70'** is **GIVEN**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **3" ASP., 6" CONC.**

Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT RDWY**

T.H. tied to **MAG NAIL**

2.83' W. R.P.C. AT&T (FO) DUCT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Facing **NORTHWEST**

Existing Grade of **ASPHALT RDWY**

Survey Mark (set by So-Deep) **MAG NAIL** Elev. **611.64'**

2.73' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **608.91'**

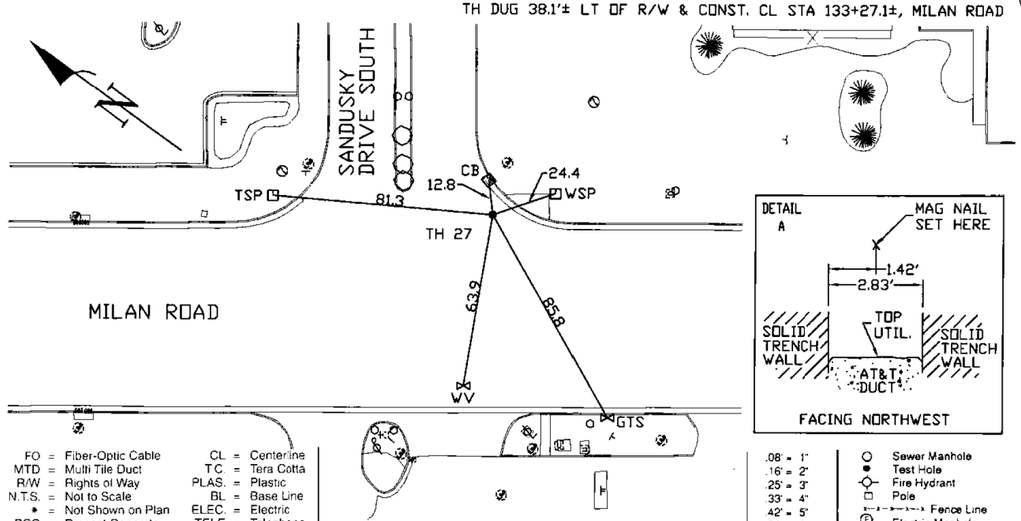
Surveyed Elev. Bott. Util/Struc. (if required)

SEE DETAIL A

Width ± **2.83'**

Remarks: * CREW COULD NOT OBTAIN A BOTTOM ELEVATION DUE TO THE SOLID TRENCH WALLS OF THE EXCAVATION. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.

TH DUG 38.1'± LT OF R/W & CONST. CL STA 133+27.1±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
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Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **30**
Plan Scale **1" = 20'**
Sheet # **20**
Proposed **T.C. CONTROL BOX**
Date **APRIL 1, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **S. CORNER OF MILAN ROAD & SANDUSKY DR. SOUTH**
Recorded Size/Material/Type **2" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**

B.M. 2 Elev. = **613.70'** is **GIVEN**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

Description: **TOP OF RR SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing

Existing Grade of **GRASS R/W**

Survey Mark (set by So-Deep) **PEG** Elev. **612.94'**

1.59' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **611.33'**

Surveyed Elev. Bott. Util/Struc. (if required)

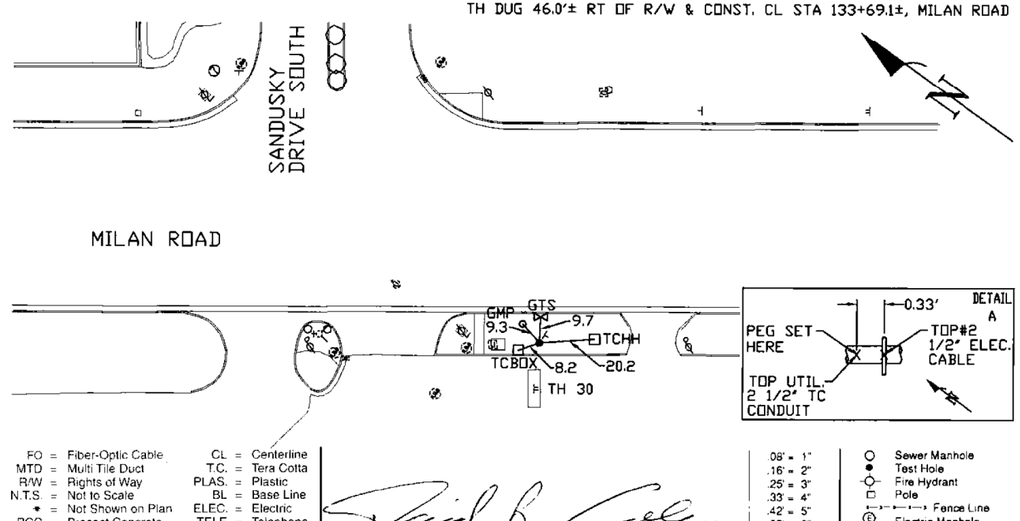
SEE DETAIL A

Width ±

Remarks: * CREW ALSO FOUND A 1/2" ELECTRIC CABLE RUNNING ABOVE & PERPENDICULAR TO THE 2 1/2" TRAFFIC CONTROL CONDUIT. CREW COULD NOT DETERMINE THE FUNCTION OF THE 1/2" ELECTRIC CABLE.

TOP#2
ELEV. **611.95**
ACTUAL **0.99**

TH DUG 46.0'± RT OF R/W & CONST. CL STA 133+69.1±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #27 & #30

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **31**
Plan Scale **1"=20'**
Sheet # **18**
Proposed **SIGNAL POLE**
Date **APRIL 2, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #4416, MILAN ROAD**
Recorded Size/Material/Type **6" COATED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **ROCKY BROWN**

Truck Location **GRASS R/W**

T.H. tied to **CHIS "X" ***

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

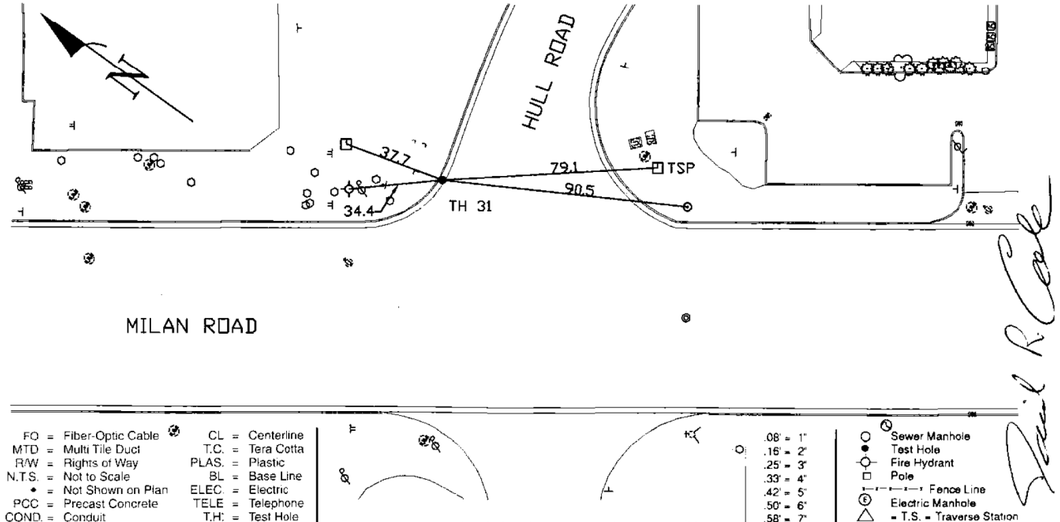
Remarks: * TEST HOLE WAS DUG IN GRASS R/W, CHIS "X" SET IN CONCRETE GUTTER.

Facing **NORTHWEST**

Width ±

Existing Grade of **CONC. GUTTER**
Survey Mark **CHIS "X" *** (set by So-Deep)
Elev. **613.62'**
2.65' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **610.96'**
Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 50.3'± LT OF R/W & CONST. CL STA 138+83.9±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33" = 4"	Pole
◆ = Not Shown on Plan	ELEC. = Electric	.42" = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50" = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58" = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67" = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75" = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83" = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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Paul R. Cole

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **32**
Plan Scale **1"=20'**
Sheet # **18**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT HULL ROAD AND MILAN ROAD**
Recorded Size/Material/Type **2" STEEL T.C. CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **ROCKY BROWN**

Truck Location **GRASS R/W**

T.H. tied to **PEG**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

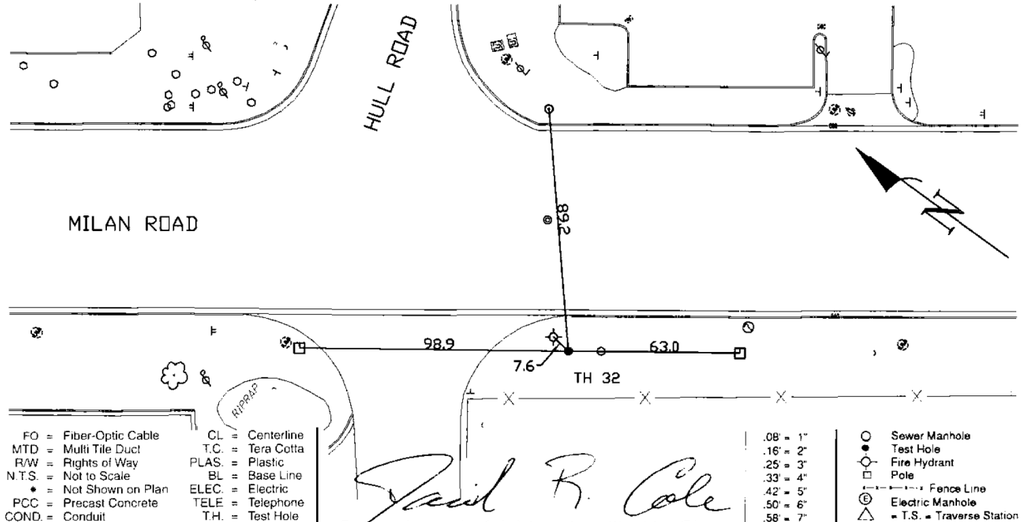
Remarks: NONE

Facing **NORTHWEST**

Width ±

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep)
Elev. **613.82'**
1.89' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **611.91'**
Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 48.3'± RT OF R/W & CONST. CL STA 139+81.4±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33" = 4"	Pole
◆ = Not Shown on Plan	ELEC. = Electric	.42" = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50" = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58" = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67" = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75" = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83" = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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Paul R. Cole

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #31 & #32

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLD902
Test Hole #	34
Plan Scale	1"=20'
Sheet #	18
Proposed	CATCH BASIN
Date	APRIL 2, 2013

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #4416, MILAN ROAD**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT / CATV DUCT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **ROCKY BROWN**

Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

1.06' H. X 3.45' W. RPC AT&T (FO) DUCT / CATV DUCT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Remarks: NONE

Facing **NORTHWEST**

SEE DETAIL A

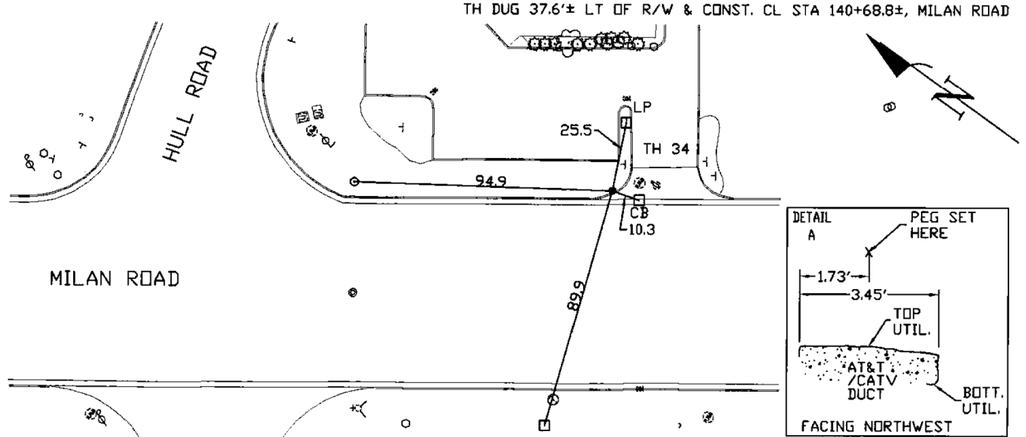
Width ± **3.45'**

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **614.04'**

3.30' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **610.72'**
4.37'
Surveyed Elev. Bott. Util/Struc. (if required) **609.66'**

TH DUG 37.6'± LT OF R/W & CONST. CL STA 140+68.8±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

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Paul R Cole

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLD902
Test Hole #	35
Plan Scale	1"=20'
Sheet #	18
Proposed	CATCH BASIN
Date	APRIL 2, 2013

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #4416, MILAN ROAD**
Recorded Size/Material/Type **9-WAY UNK. TYPE AT&T (FO) DUCT / CATV DUCT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **ROCKY BROWN**

Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

1.96' H. X 2.66' W. RPC AT&T (FO) DUCT / CATV DUCT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Remarks: NONE

Facing **NORTHWEST**

SEE DETAIL A

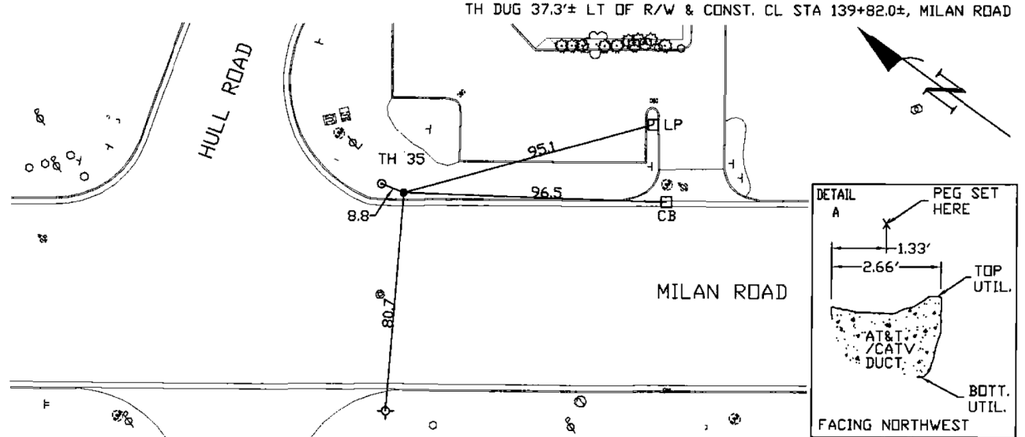
Width ± **2.66'**

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **614.34'**

2.47' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **611.89'**
4.43'
Surveyed Elev. Bott. Util/Struc. (if required) **609.93'**

TH DUG 37.3'± LT OF R/W & CONST. CL STA 139+82.0±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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Paul R Cole

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #34 & #35

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **36**
Plan Scale **1"=20'**
Sheet # **18**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT HULL ROAD AND MILAN ROAD**
Recorded Size/Material/Type **16" DUCTILE IRON WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

Soil Type **ROCKY BROWN**

Truck Location **GRASS R/W**

T.H. tied to **PEG**

19" BELL JOINT ON A 17" DUCTILE WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **614.12'**

Facing **NORTHWEST**

SEE DETAIL A

Width ±

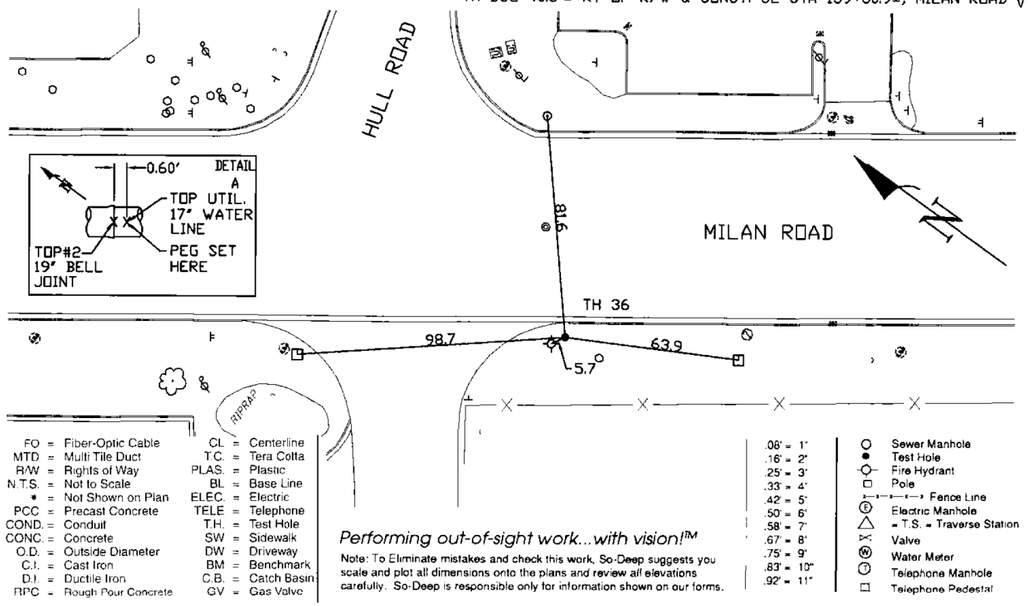
4.23' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **609.88'**

Surveyed Elev. Bott. Util/Struc. (if required)

TOP#2
ELEV. 609.96
ACTUAL 4.15

TH DUG 40.8'± RT OF R/W & CONST. CL STA 139+80.9±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.06' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **37**
Plan Scale **1"=20'**
Sheet # **18**
Proposed **12" STORM X-ING**
Date **APRIL 2, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #4416, MILAN ROAD**
Recorded Size/Material/Type **6" COATED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **ROCKY BROWN**

Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **614.34'**

Facing **NORTHWEST**

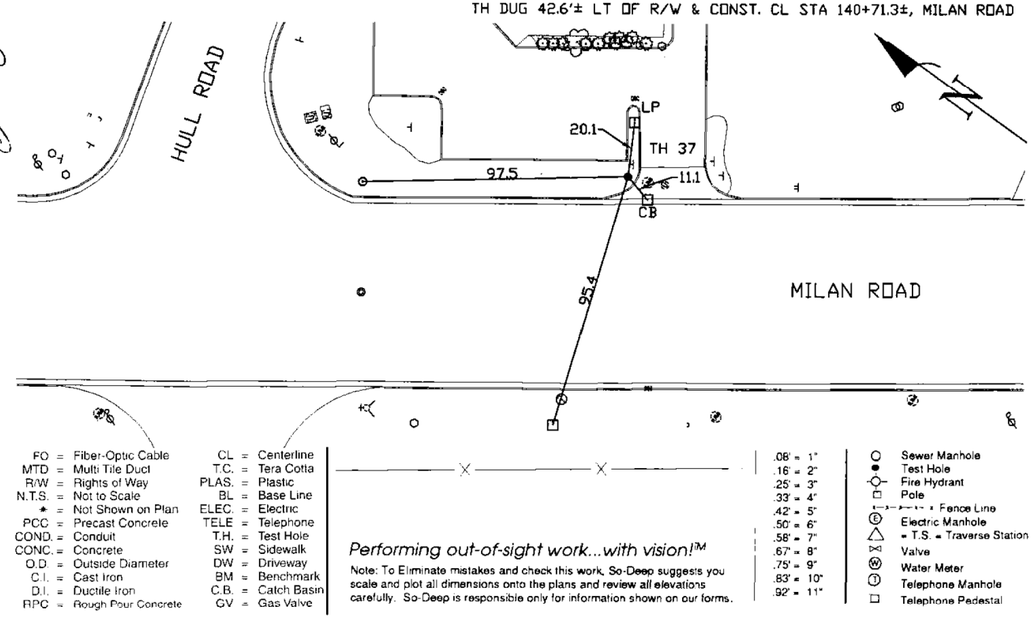
Width ±

2.32' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **612.02'**

Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 42.6'± LT OF R/W & CONST. CL STA 140+71.3±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.06' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #36 & #37

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **38**
Plan Scale **1"=20'**
Sheet # **18**
Proposed **T.C. BOX**
Date **APRIL 2, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT HULL ROAD AND MILAN ROAD**
Recorded Size/Material/Type **6" COATED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **613.70'** is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'** is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

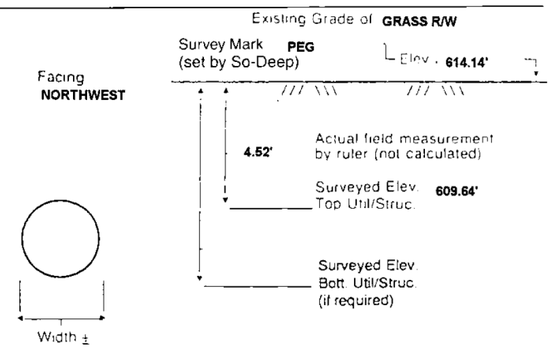
Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

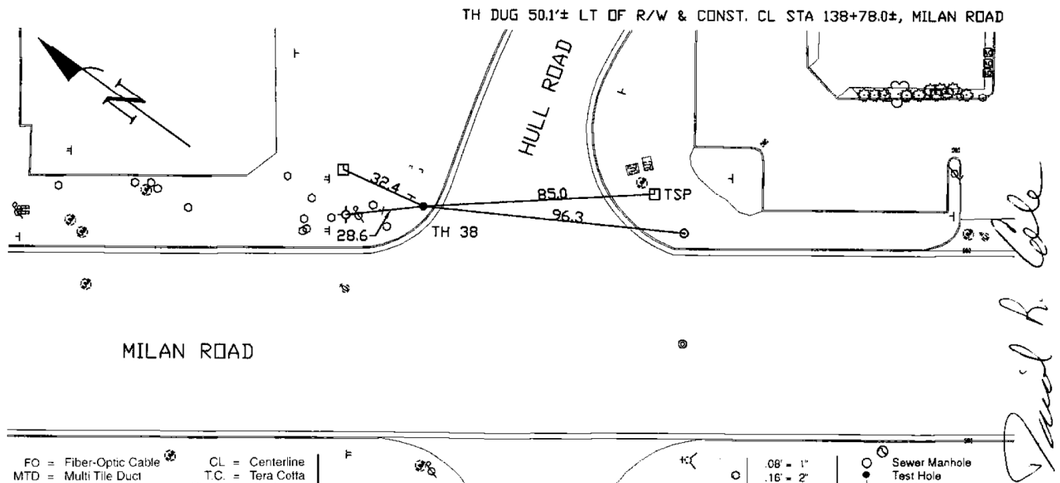
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY BROWN**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

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.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **39**
Plan Scale **1"=20'**
Sheet # **15**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER OF MILAN ROAD & MEIJER NORTH DR.**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON. BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

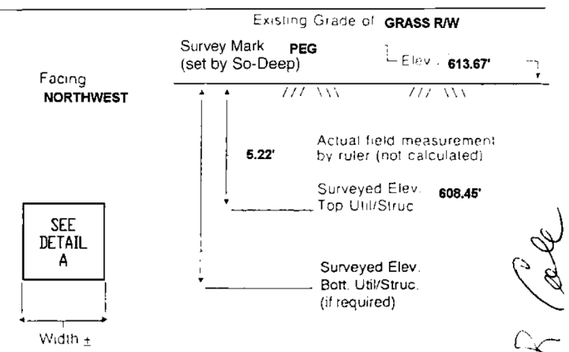
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

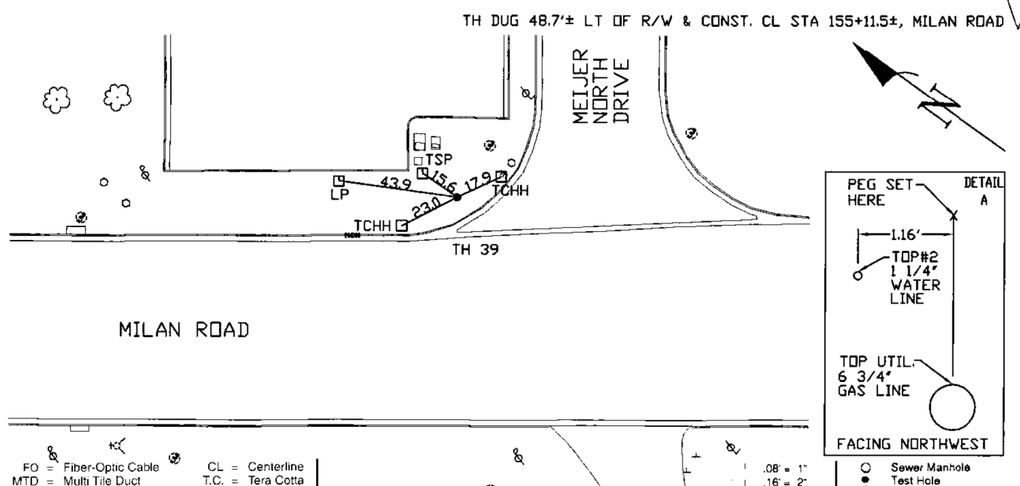
Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: * CREW ALSO FOUND A 1 1/4" PLASTIC IRRIGATION WATER LINE RUNNING ABOVE & PARALLEL TO THE 6 3/4" GAS LINE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #41 & #118, JOB EZLD902.



TOP#2
ELEV. 613.25
ACTUAL 0.42



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #38 & #39

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **40**
Plan Scale **1"=20'**
Sheet # **15**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **INTR. OF MILAN ROAD & MEIJER NORTH DR.**
Recorded Size/Material/Type **16" D.I. WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON. BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

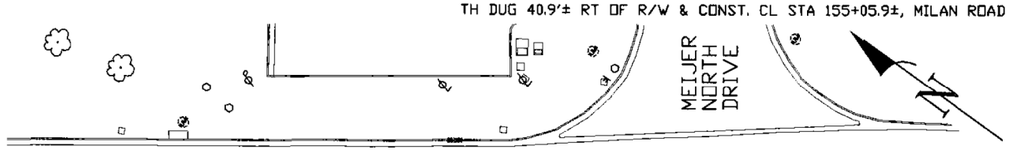
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

17" D.I. WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

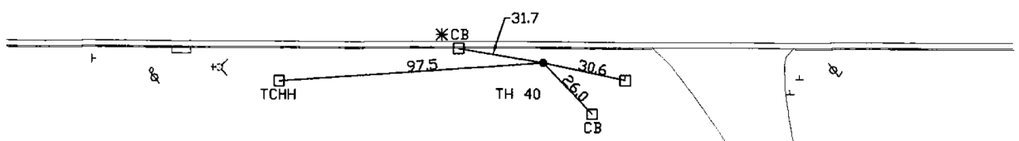
Remarks: NONE

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **613.54'**
Facing **NORTHWEST**
5.18' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **608.37'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

TH DUG 40.9'± RT OF R/W & CONST. CL STA 155+05.9±, MILAN ROAD



MILAN ROAD



FO	Fiber-Optic Cable	CL	Centerline	.08' = 1"	Sewer Manhole
MTD	Multi Tile Duct	T.C.	Tera Cotta	.16' = 2"	Test Hole
R/W	Rights of Way	PLAS.	Plastic	.25' = 3"	Fire Hydrant
N.T.S.	Not to Scale	BL	Base Line	.33' = 4"	Pole
*	Not Shown on Plan	ELEC.	Electric	.42' = 5"	Fence Line
PCC	Precast Concrete	TELE	Telephone	.50' = 6"	Electric Manhole
COND.	Conduit	T.H.	Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC.	Concrete	SW	Sidewalk	.67' = 8"	Valve
O.D.	Outside Diameter	DW	Driveway	.75' = 9"	Water Meter
C.I.	Cast Iron	BM	Benchmark	.83' = 10"	Telephone Manhole
D.I.	Ductile Iron	C.B.	Catch Basin	.92' = 11"	Telephone Pedestal
RPC	Rough Pour Concrete	GV	Gas Valve		

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **41**
Plan Scale **1"=20'**
Sheet # **15**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER OF MILAN ROAD & MEIJER NORTH DR.**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLES**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON. BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

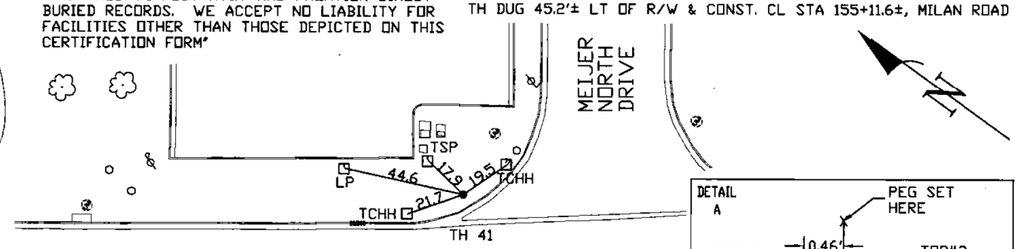
Remarks: * CREW FOUND (1) 1 1/2" FRONTIER (FO) CABLE, (1) 3 1/4" FRONTIER CABLE, (1) 2 1/2" FRONTIER CABLE AND (1) 2" FRONTIER CABLE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #39 & #118, JOB EZLD902.

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **613.76'**
Facing **NORTHWEST**
3.92' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **609.83'**
Surveyed Elev. Bott. Util/Struc (if required)
SEE DETAIL A
Width ± **0.92'**

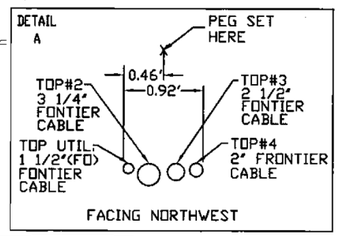
	TOP#2	TOP#3	TOP#4
ELEV.	609.93	609.88	609.81
ACTUAL	3.84	3.89	3.96

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 45.2'± LT OF R/W & CONST. CL STA 155+11.6±, MILAN ROAD



MILAN ROAD



FO	Fiber-Optic Cable	CL	Centerline	.08' = 1"	Sewer Manhole
MTD	Multi Tile Duct	T.C.	Tera Cotta	.16' = 2"	Test Hole
R/W	Rights of Way	PLAS.	Plastic	.25' = 3"	Fire Hydrant
N.T.S.	Not to Scale	BL	Base Line	.33' = 4"	Pole
*	Not Shown on Plan	ELEC.	Electric	.42' = 5"	Fence Line
PCC	Precast Concrete	TELE	Telephone	.50' = 6"	Electric Manhole
COND.	Conduit	T.H.	Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC.	Concrete	SW	Sidewalk	.67' = 8"	Valve
O.D.	Outside Diameter	DW	Driveway	.75' = 9"	Water Meter
C.I.	Cast Iron	BM	Benchmark	.83' = 10"	Telephone Manhole
D.I.	Ductile Iron	C.B.	Catch Basin	.92' = 11"	Telephone Pedestal
RPC	Rough Pour Concrete	GV	Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #40 & #41

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **42**
Plan Scale **1"=20'**
Sheet # **15**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **INTR. OF MILAN ROAD & MEIJER NORTH DR.**
Recorded Size/Material/Type **2" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON. BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

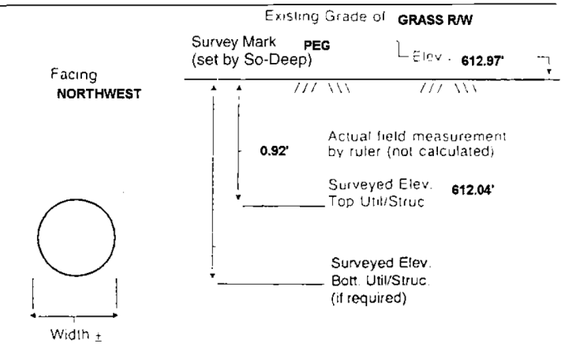
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

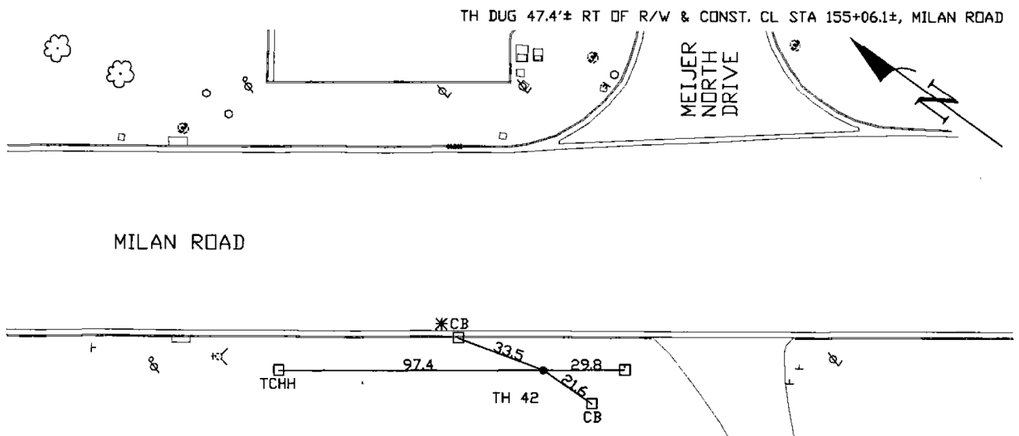
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





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MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
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SW = Sidewalk
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BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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.33' = 4"
.42' = 5"
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.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **43**
Plan Scale **1"=20'**
Sheet # **14**
Proposed **SIGNAL POLE**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER MILAN ROAD & MEIJER SOUTH DR.**
Recorded Size/Material/Type **3" PLASTIC GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **615.76'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 46'± LT OF R/W & CONST. CL STA 163+54±, MILAN ROAD**

B.M. 2 Elev. = **616.16'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 47'± LT OF R/W & CONST. CL STA 167+06±, MILAN ROAD**

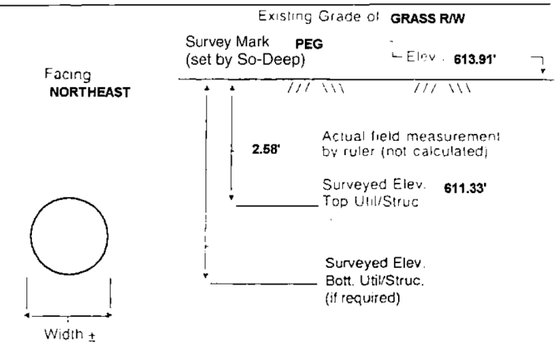
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

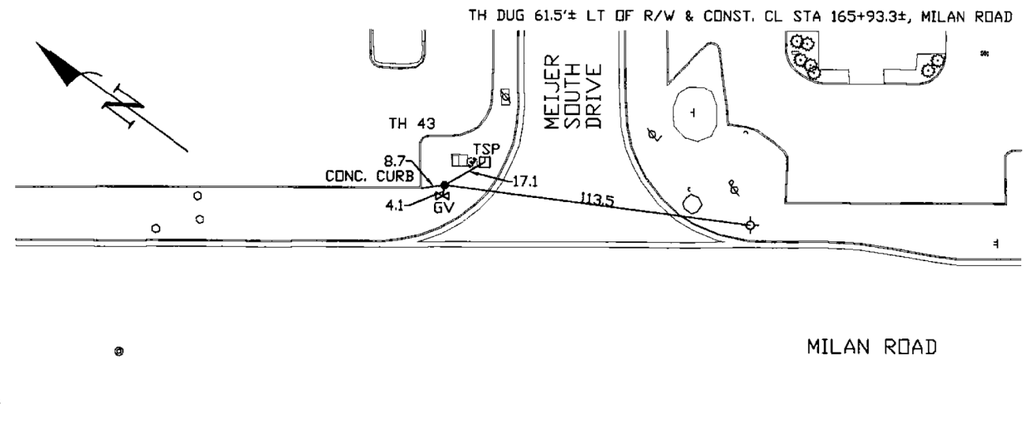
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

3 1/2" PLASTIC GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #42 & #43

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **47**
Plan Scale **1"=20'**
Sheet # **13**
Proposed **CATCH BASIN**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **ENTRANCE TO OUTBACK PLAZA, MILAN ROAD**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.11'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 171+64±, MILAN ROAD**

B.M. 2 Elev. = **613.73'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 176+14±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **STEEL PIN**

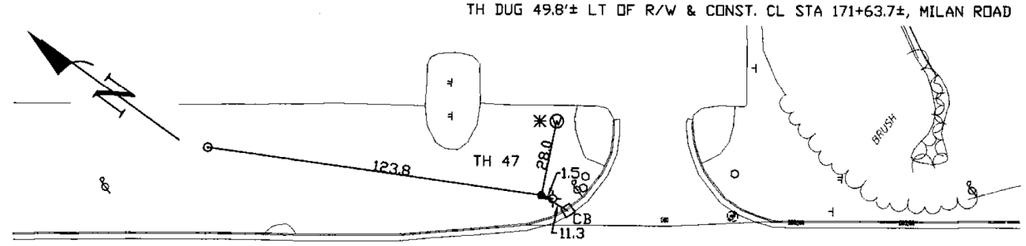
6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **NORTHWEST**

Existing Grade of **GRASS R/W**
Survey Mark (set by So-Deep) **STEEL PIN**
Elev. **607.16'**
5.71' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **601.45'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #49 & #119, JOB EZLD902.

TH DUG 49.8'± LT OF R/W & CONST. CL STA 171+63.7±, MILAN ROAD



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CONC. = Concrete
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D.I. = Ductile Iron
RPC = Rough Pour Concrete

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T.H. = Test Hole
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BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
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.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **48**
Plan Scale **1"=20'**
Sheet # **13**
Proposed **CATCH BASIN**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SE ENTRANCE TO OUTBACK PLAZA, MILAN ROAD**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.11'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 171+64±, MILAN ROAD**

B.M. 2 Elev. = **613.73'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 176+14±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

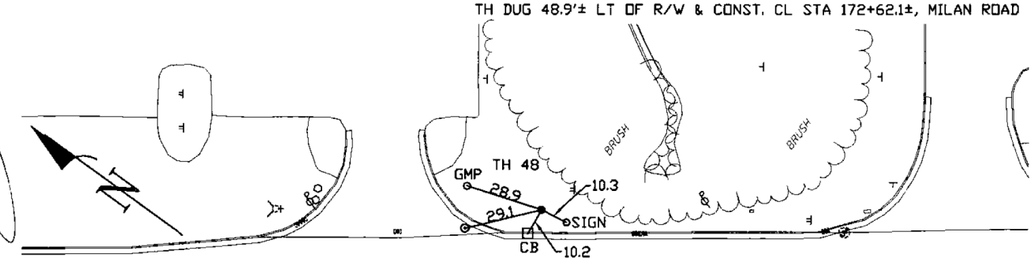
6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)

Facing **NORTHWEST**

Existing Grade of **GRASS R/W**
Survey Mark (set by So-Deep) **PEG**
Elev. **606.77'**
9.22' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **597.53'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #50, JOB EZLD902.

TH DUG 48.9'± LT OF R/W & CONST. CL STA 172+62.1±, MILAN ROAD



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C.I. = Cast Iron
D.I. = Ductile Iron
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TELE = Telephone
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SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #47 & #48

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **49**
Plan Scale **1"=20'**
Sheet # **13**
Proposed **CATCH BASIN**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **ENTRANCE TO OUTBACK PLAZA, MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLES & (1)UNK. SIZE AT&T (FO)**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.11'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 171+64±, MILAN ROAD**

B.M. 2 Elev. = **613.73'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 176+14±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

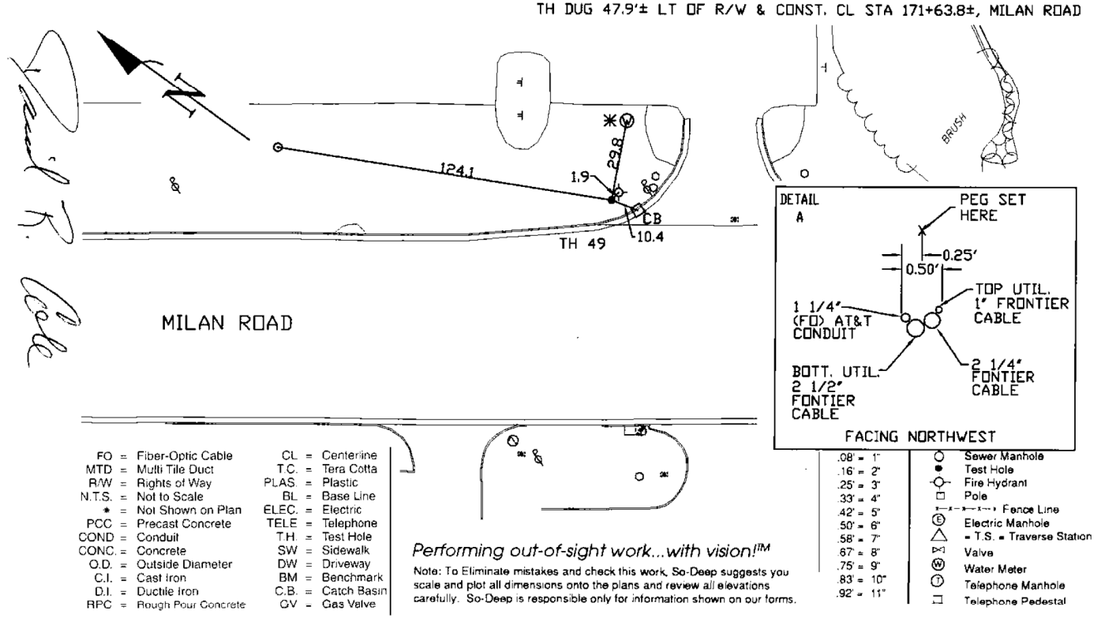
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **607.32'**
Facing **NORTHWEST**
SEE DETAIL A
Width ± **0.50'**
3.01' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **604.28'**
3.39'
Surveyed Elev. Bott. Util/Struc (if required) **603.90'**

Remarks: * CREW FOUND (1) 1 1/4" AT&T (FO) CONDUIT & (1) 2 1/2" & (1) 1" & (1) 2 1/4" FRONTIER CABLES. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #47 & #119, JOB EZLD902.

TH DUG 47.9'± LT OF R/W & CONST. CL STA 171+63.8±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **50**
Plan Scale **1"=20'**
Sheet # **13**
Proposed **CATCH BASIN**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. ENTRANCE TO OUTBACK PLAZA, MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE (FR) CABLES & (1) UNK. SIZE AT&T (FO)**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.11'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 171+64±, MILAN ROAD**

B.M. 2 Elev. = **613.73'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 176+14±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

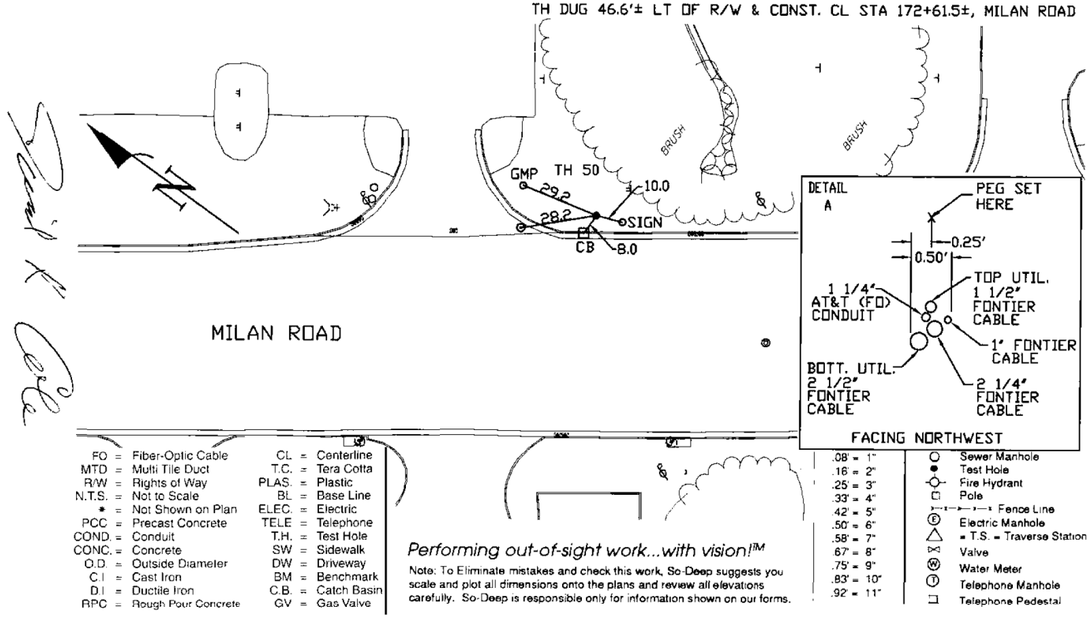
SEE REMARKS *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **606.76'**
Facing **NORTHWEST**
SEE DETAIL A
Width ± **0.50'**
2.55' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **604.24'**
3.07'
Surveyed Elev. Bott. Util/Struc (if required) **603.69'**

Remarks: * CREW FOUND (1) 1 1/4" AT&T (FO) CONDUIT, (1) 2 1/2" FRONTIER CABLE, (1) 2 1/4" FRONTIER CABLE, (1) 1" FRONTIER CABLE & (1) 1 1/2" FRONTIER CABLE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #48, JOB EZLD902.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 46.6'± LT OF R/W & CONST. CL STA 172+61.5±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #49 & #50

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **52**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **SIGNAL POLE**
Date **APRIL 15, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **16" D.I. WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE & RED**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT PARKING LOT**

T.H. tied to **PEG**

17" D.I. WATER LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW ALSO FOUND A 1 1/4" PLASTIC (PRIVATE) ELECTRIC CONDUIT RUNNING ABOVE & PARALLEL TO THE WATER LINE.

Facing **NORTHWEST**

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **611.83'**

5.53' Actual field measurement by ruler (not calculated)

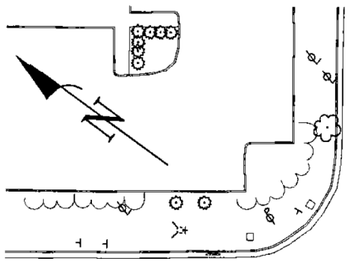
Surveyed Elev. Top Util/Struc **606.32'**

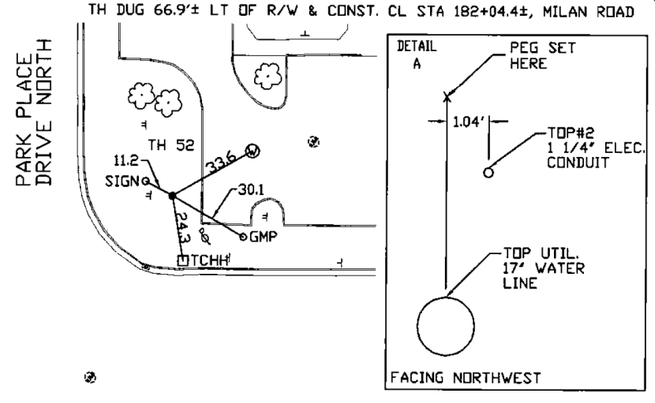
Surveyed Elev. Bott. Util/Struc. (if required)

SEE DETAIL A

Width ±

TOP#2
ELEV. **609.43**
ACTUAL **2.42**





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TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

.06' = 1"
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.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **63**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **CATCH BASIN**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT PARKING LOT**

T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #56 & #65, JOB EZLD902.

Facing **NORTHWEST**

Existing Grade of **GRASS R/W**

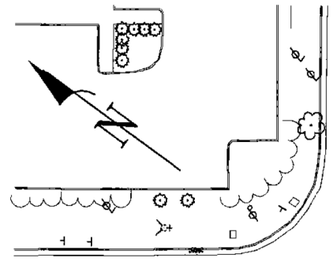
Survey Mark **PEG** (set by So-Deep) Elev. **611.67'**

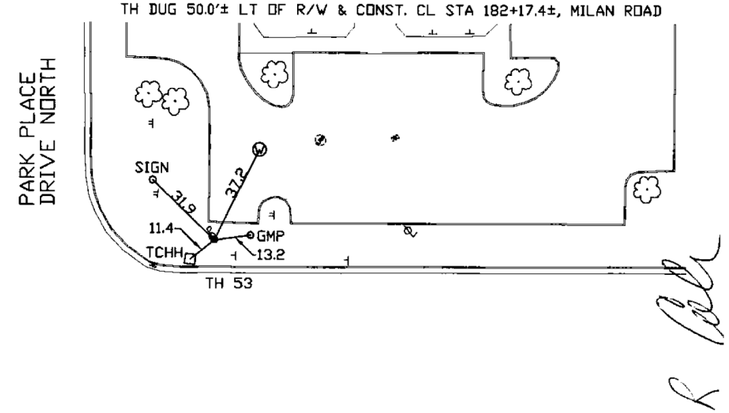
4.78' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **606.88'**

Surveyed Elev. Bott. Util/Struc. (if required)

Width ±





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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #52 & #53

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **54**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **CATCH BASIN**
Date **APRIL 12, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **S. CORNER MILAN ROAD & CROSSINGS ROAD**
Recorded Size/Material/Type **3" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

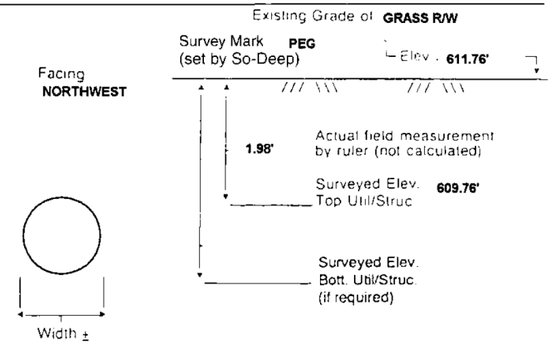
Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT PARKING LOT**

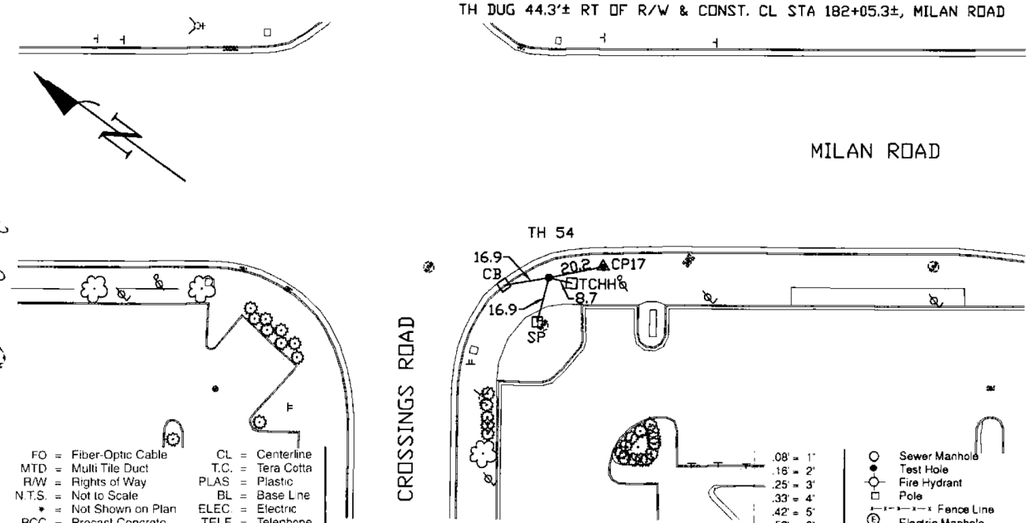
T.H. tied to **PEG**

3 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE



TH DUG 44.3'± RT OF R/W & CONST. CL STA 182+05.3±, MILAN ROAD



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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **55**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **STORM X-ING**
Date **APRIL 12, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **S. CORNER MILAN ROAD & CROSSINGS ROAD**
Recorded Size/Material/Type **12" UNK. TYPE WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

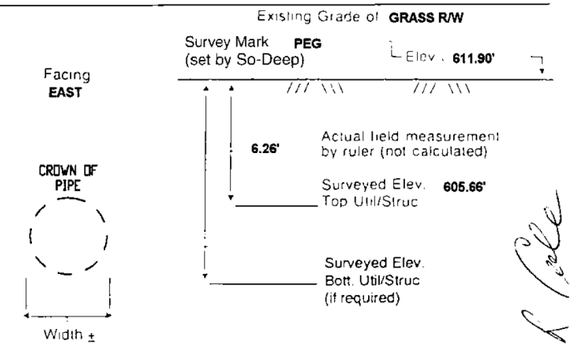
Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT PARKING LOT**

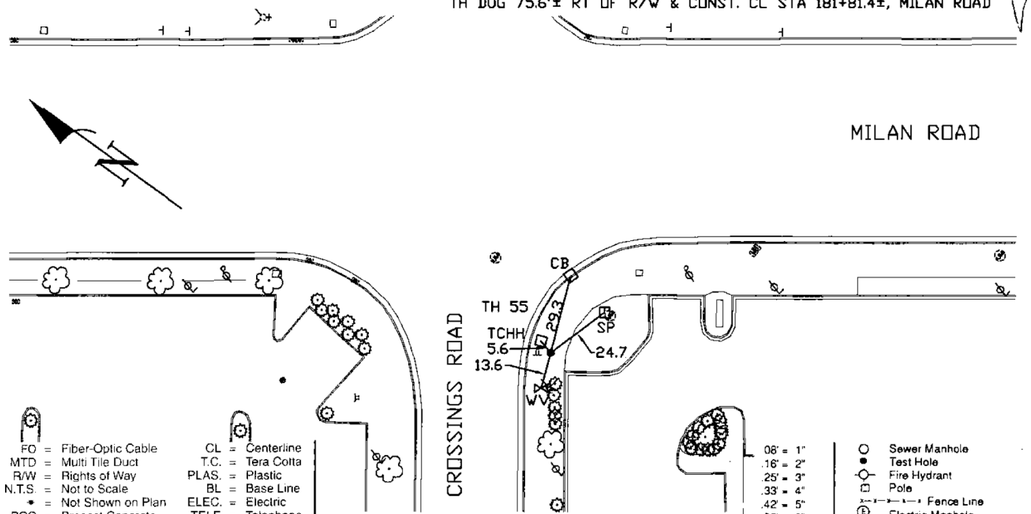
T.H. tied to **PEG**

12" (I.D.) PLASTIC WATER LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)

Remarks: * CREW COULD NOT OBTAIN AN ACCURATE O.D. MEASUREMENT DUE TO COPIOUS AMOUNT OF WATER & UNSTABLE GROUND CONDITIONS IN THE TEST HOLE. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH & ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.



TH DUG 75.6'± RT OF R/W & CONST. CL STA 181+81.4±, MILAN ROAD



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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #54 & #55

SO-DEEP

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **56**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **CATCH BASIN**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLES & UNK. SIZE AT&T (FO)**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

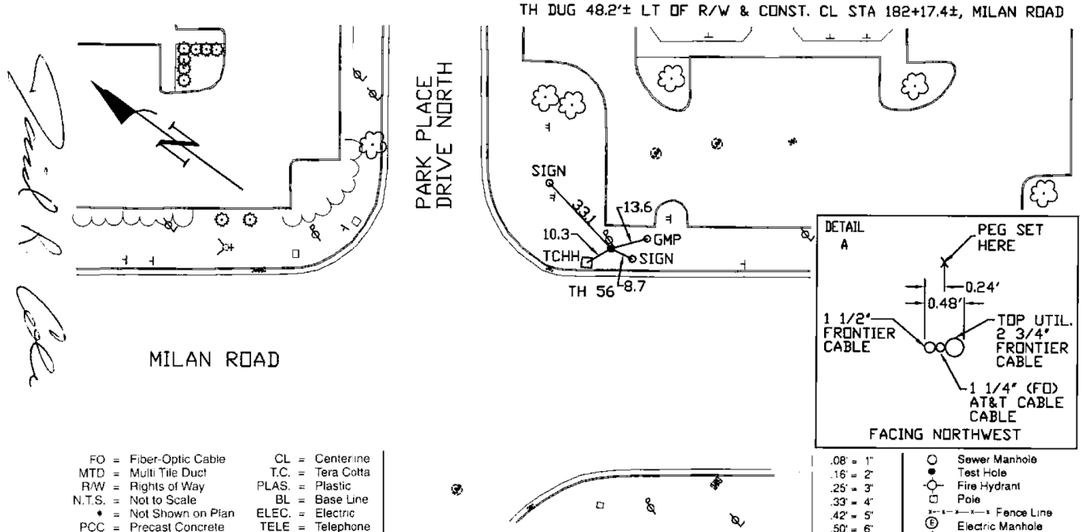
SEE REMARKS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **611.77'**
Facing **NORTHWEST**
SEE DETAIL A
Width ± **0.48'**
2.75' Actual field measurement by ruler (not calculated)
Surveyed Elev Top Util/Struc **609.00'**
Surveyed Elev. Bott. Util/Struc. (if required)

Remarks: * CREW FOUND (1) 1 1/2" FRONTIER CABLE, (1) 2 3/4" FRONTIER CABLE & (1) 1 1/4" AT&T (FO) CABLE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #53 & #65, JOB EZLD902.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS, WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 48.2'± LT OF R/W & CONST. CL STA 182+17.4±, MILAN ROAD



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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **57**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **GRADE CHANGE**
Date **APRIL 16, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW OF PARK PLACE DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE & TYPE FUNCTION UTILITY**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. RDWY. IN GOOD CONDITION**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

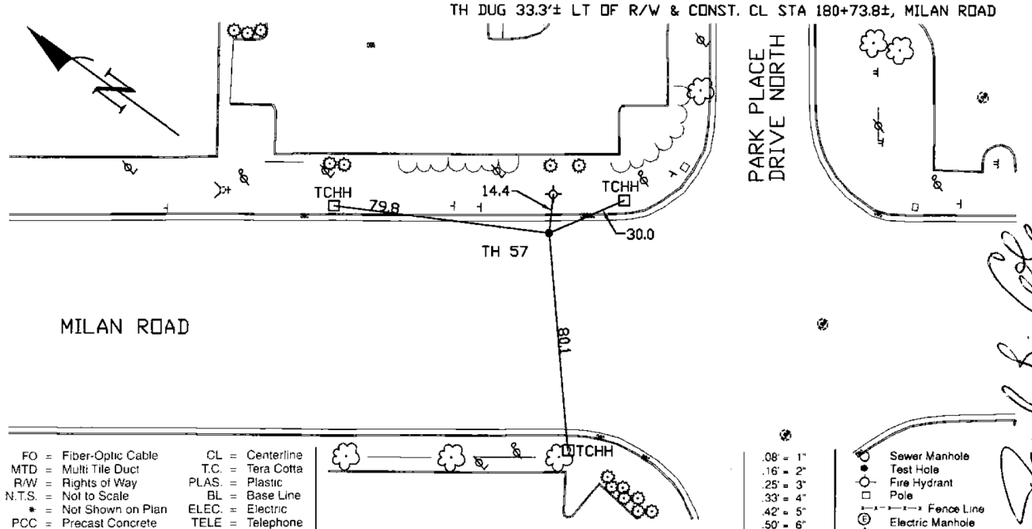
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS NOT** in good condition **SEE REMARKS**
Paving Thickness and type **9" ASPHALT**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT RDWY**
T.H. tied to **MAG NAIL**

5 1/2" METALLIC UNK FUNCTION PIPE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **ASPHALT RDWY**
Survey Mark **MAG NAIL** (set by So-Deep) Elev. **611.23'**
Facing **NORTHWEST**
Width ± **0.48'**
4.09' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **607.15'**
Surveyed Elev. Bott. Util/Struc. (if required)

Remarks: * CREW COULD NOT DETERMINE THE MATERIAL TYPE OR EXACT TYPE FUNCTION OF THE 5 1/2" PIPE. CREW ALSO FOUND THE UNK FUNCTION PIPE CUT OFF AND ABANDONED IN PLACE. NOTE: CREW FOUND THE UNK. FUNCTION PIPE CORRODED AT THIS LOCATION.

TH DUG 33.3'± LT OF R/W & CONST. CL STA 180+73.8±, MILAN ROAD



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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #56 & #57

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **60**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **STORM X-ING**
Date **APRIL 16, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **INTR. MILAN ROAD & PARK PLACE DRIVE NORTH**
Recorded Size/Material/Type **3" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. RDWY. IN GOOD CONDITION**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS NOT FOUND, SEE REMARKS**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **11" ASPHALT**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **MODERATE RD TRAFFIC**
T.H. tied to **MAG NAIL**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

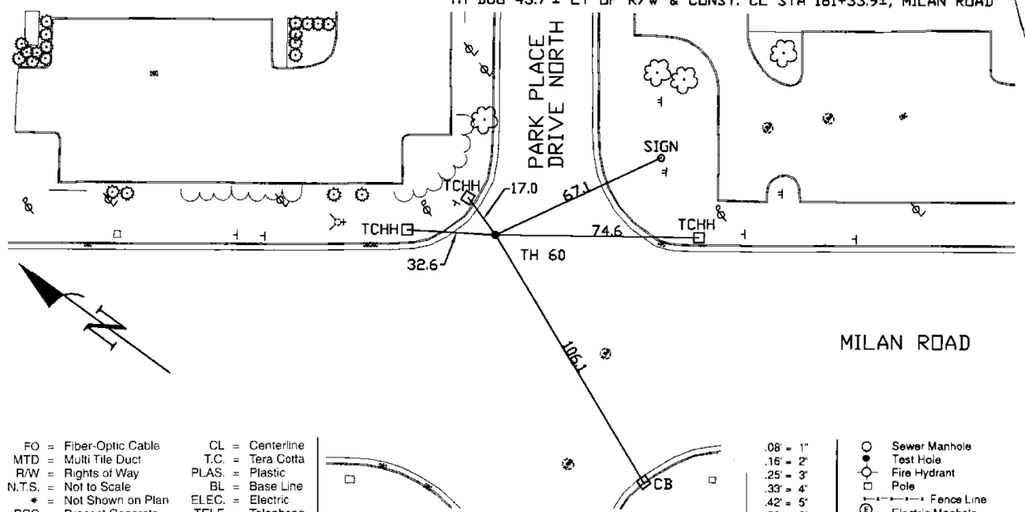
Facing **NORTHWEST**

Existing Grade of **ASPHALT RDWY**
Survey Mark **MAG NAIL** (set by So-Deep) Elev. **611.36'**
2.12' Actual field measurement by ruler (not calculated)
Surveyed Elev Top Util/Struc. **609.24'**
Surveyed Elev. Bott. Util/Struc. (if required)

Width ±

Remarks: * CREW WAS UNABLE TO ACCOUNT FOR THE SMALLER THAN EXPECTED O.D. MEASUREMENT. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH & ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.

TH DUG 43.7'± LT OF R/W & CONST. CL STA 181+33.9±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **62**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **STORM X-ING**
Date **APRIL 15, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLES & UNK. SIZE AT&T (FO)**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **STEEL PIN**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **NORTHWEST**

Existing Grade of **GRASS R/W**
Survey Mark **STEEL PIN** (set by So-Deep) Elev. **611.68'**
3.43' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **608.26'**
3.88'
Surveyed Elev. Bott. Util/Struc (if required) **607.81'**

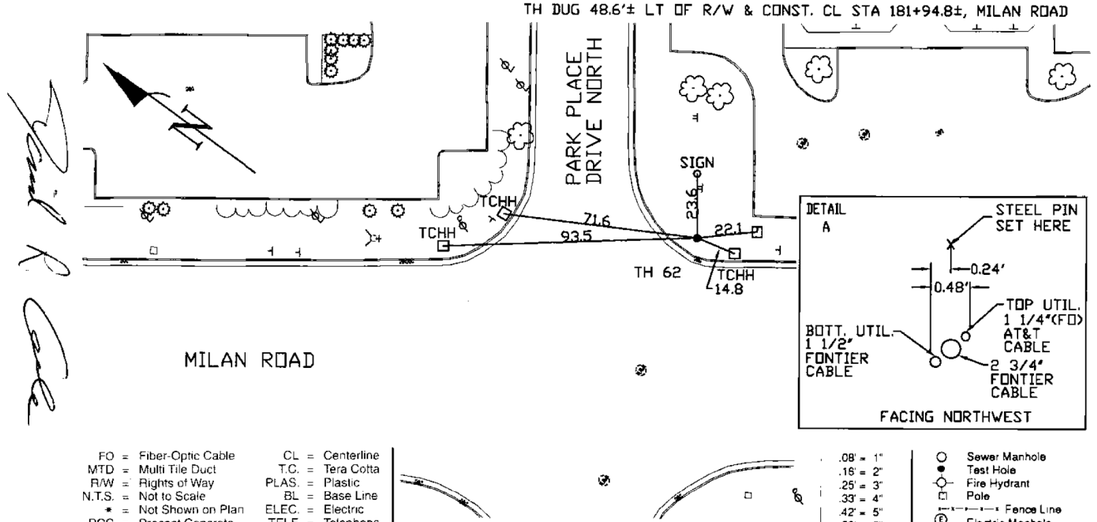
SEE DETAIL A

Width ± **0.48'**

Remarks: * CREW FOUND (1) 1 1/2" FRONTIER CABLE, (1) 2 3/4" FRONTIER CABLE & (1) 1 1/4" AT&T (FO) CABLE.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 48.6'± LT OF R/W & CONST. CL STA 181+94.8±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #60 & #62

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **63**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **STORM X-ING**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLES & UNK. SIZE AT&T (FO)**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

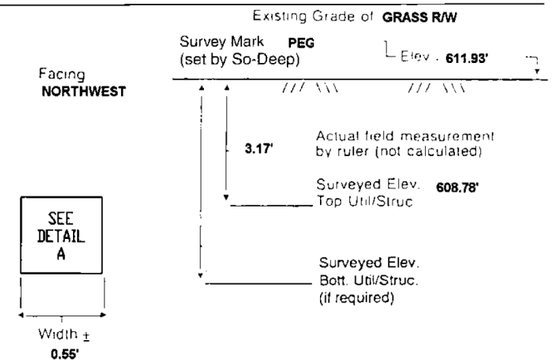
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

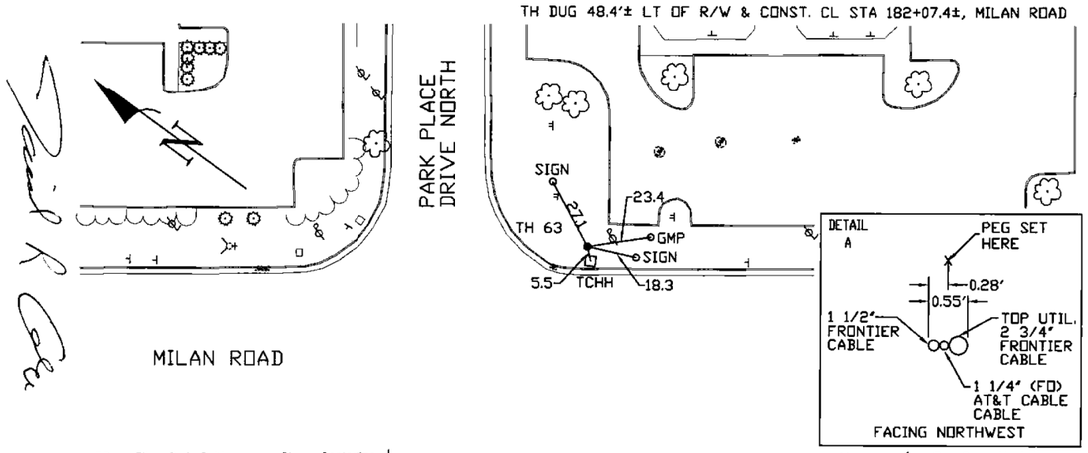
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW FOUND (1) 1 1/2" FRONTIER CABLE, (1) 2 3/4" FRONTIER CABLE & (1) 1 1/4" AT&T (FO) CABLE.



"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **65**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **CATCH BASIN**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE & TYPE FUNCTION UTILITY**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

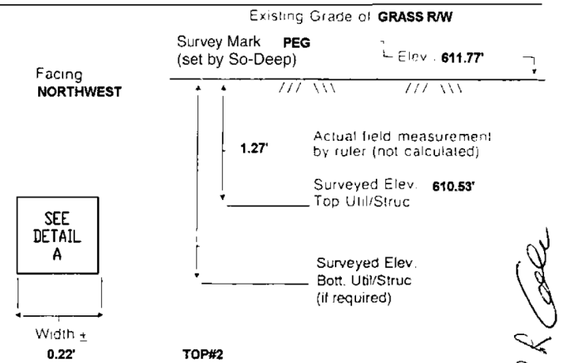
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

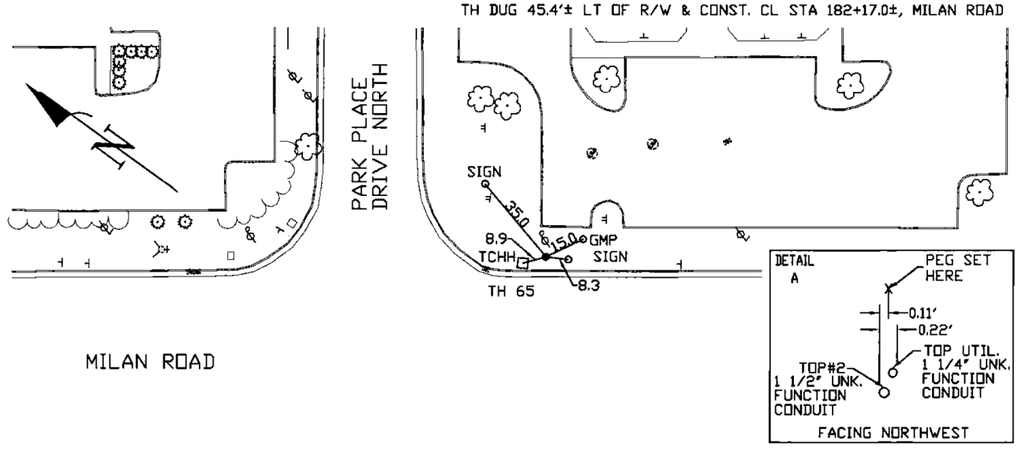
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

(1) 1 1/4" & (1) 1 1/2" UNK. FUNTION STL CONDUITS*
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW COULD NOT DETERMINE THE EXACT TYPE FUNCTION OF THE (2) STEEL CONDUITS. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #53 & #56, JOB EZLD902.





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #63 & #65

SO-DEEP

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **66**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **STORM X-ING**
Date **APRIL 15, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **E. CORNER MILAN ROAD & PARK PLACE DR. NORTH**
Recorded Size/Material/Type **12" UNK. TYPE WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE & ORANGE**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **GRASS R/W**

T.H. tied to **STEEL PIN**

24" STL. CASING PIPE FOR 12" UNK. TYPE WATER LINE"
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Remarks: * CREW ALSO FOUND (1) 1 1/2" FRONTIER CABLE, (1) 2 3/4" FRONTIER CABLE & (1) 1 1/4" AT&T (FO) CABLE ALL RUNNING ABOVE AND PERPENDICULAR TO 24" STEEL CASING PIPE.

Existing Grade of **GRASS R/W**

Survey Mark **STEEL PIN**
(set by So-Deep)
Elev. - **611.74'**

Facing

SEE DETAIL A

Width ±

6.99' Actual field measurement by ruler (not calculated)

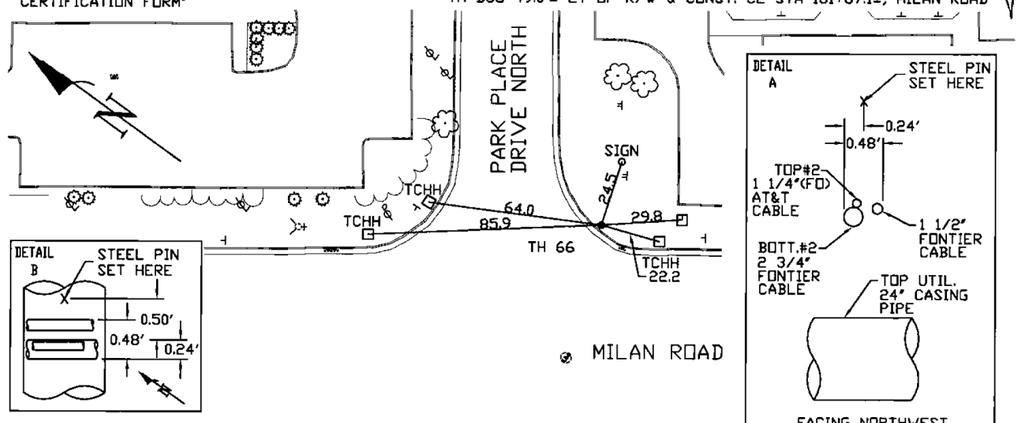
Surveyed Elev. Top Util/Struc **604.76'**

Surveyed Elev. Bott. Util/Struc. (if required)

	TOP#2	BOTT#2
ELEV.	607.35	607.01
ACTUAL	4.39	4.75

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 49.0'± LT OF R/W & CONST. CL STA 181+87.1±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
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♦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
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CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
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C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **67**
Plan Scale **1"=20'**
Sheet # **11**
Proposed **STORM X-ING**
Date **APRIL 12, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **W. CORNER MILAN ROAD & CROSSINGS ROAD**
Recorded Size/Material/Type **3" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT PARKING LOT**

T.H. tied to **PEG**

3 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Remarks: NONE

Existing Grade of **GRASS R/W**

Survey Mark **PEG**
(set by So-Deep)
Elev. - **611.45'**

Facing **NORTHWEST**

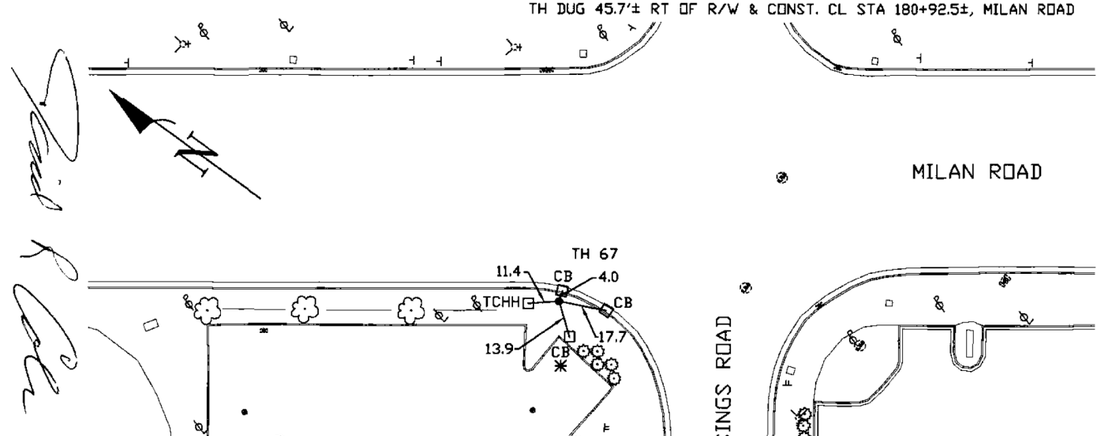
Width ±

2.24' Actual field measurement by ruler (not calculated)

Surveyed Elev Top Util/Struc **609.21'**

Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 45.7'± RT OF R/W & CONST. CL STA 180+92.5±, MILAN ROAD



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MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #66 & #67

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **70**
Plan Scale **1"=20'**
Sheet # **8**
Proposed **CATCH BASIN**
Date **APRIL 10, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING 5503, MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE FUNCTION UTILITY**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

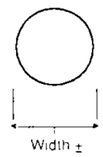
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **CHIS "X" ***

1 3/4" PLASTIC UNK. FUNCTION LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

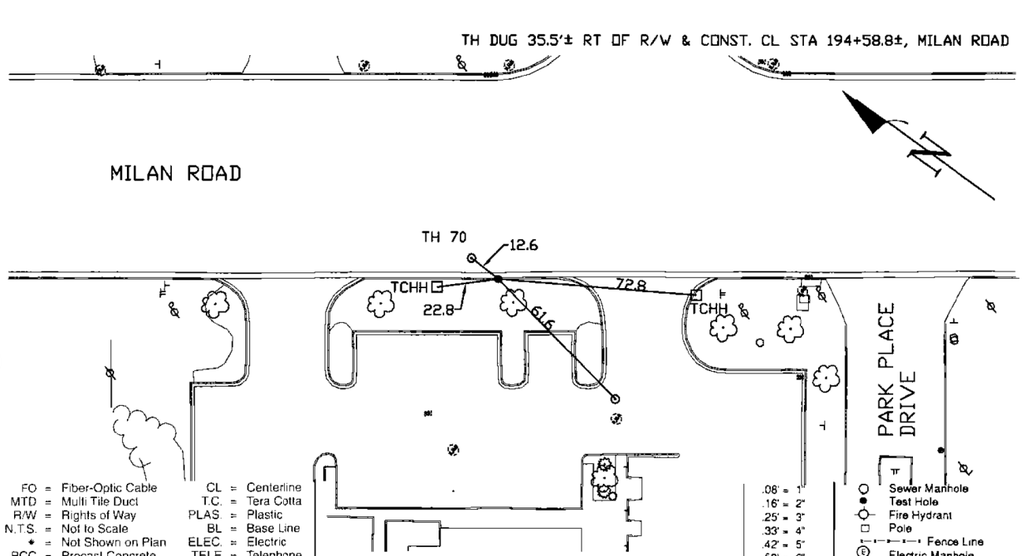
Facing **NORTHEAST**



Existing Grade of **CONC. CURB**
Survey Mark **CHIS "X" *** (set by So-Deep)
Elev. **608.15'**
2.05' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **606.10'**
Surveyed Elev. Bott. Util/Struc. (if required)

Remarks:* TEST HOLE DUG IN GRASS R/W, CHIS "X" SET IN CONCRETE CURB.

TH DUG 35.5'± RT OF R/W & CONST. CL STA 194+58.8±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **71**
Plan Scale **1"=20'**
Sheet # **8**
Proposed **SIGNAL POLE**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **W. CORNER MILAN ROAD & PARK PLACE DR.**
Recorded Size/Material/Type **2" UNK. TYPE CATV CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE & RED**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

2 1/2" PLASTIC CATV CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **EAST**

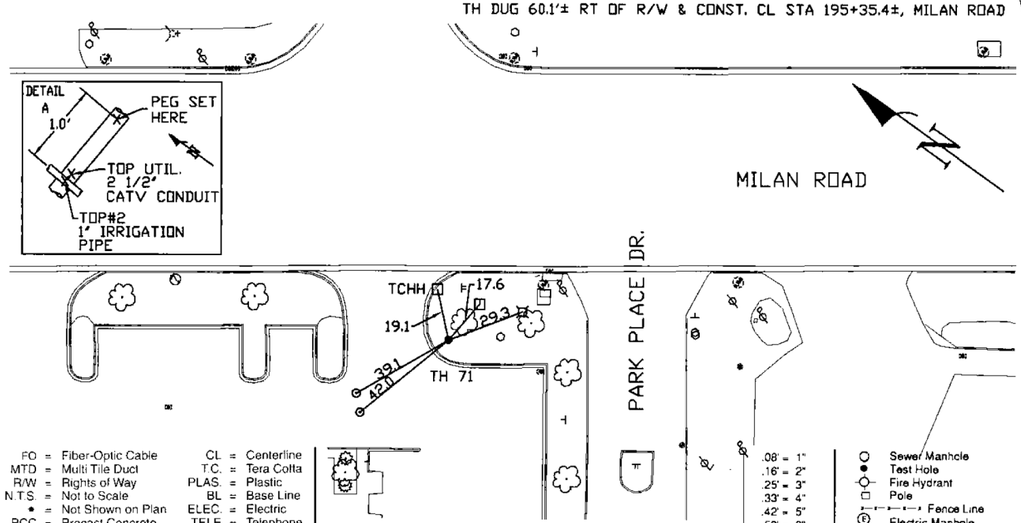
SEE DETAIL A

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep)
Elev. **608.48'**
2.33' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **606.13'**
Surveyed Elev. Bott. Util/Struc. (if required)

TOP#2
ELEV. 607.72
ACTUAL 0.74

Remarks:* CREW ALSO FOUND A 1" PLASTIC IRRIGATION PIPE RUNNING ABOVE & PERPENDICULAR TO THE 2 1/2" CATV CONDUIT. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #73, JOB EZLD902.

TH DUG 60.1'± RT OF R/W & CONST. CL STA 195+35.4±, MILAN ROAD



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R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #70 & #71

SO-DEEP

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **72**
Plan Scale **1"=20'**
Sheet # **8**
Proposed **CATCH BASIN**
Date **APRIL 8, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #5420, MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE AND TYPE AT&T LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **ASPHALT PAVE IN GOOD CONDITION**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **6" ASPHALT**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **P.K. NAIL**

(2) 4 1/2" STEEL AT&T CONDUITS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

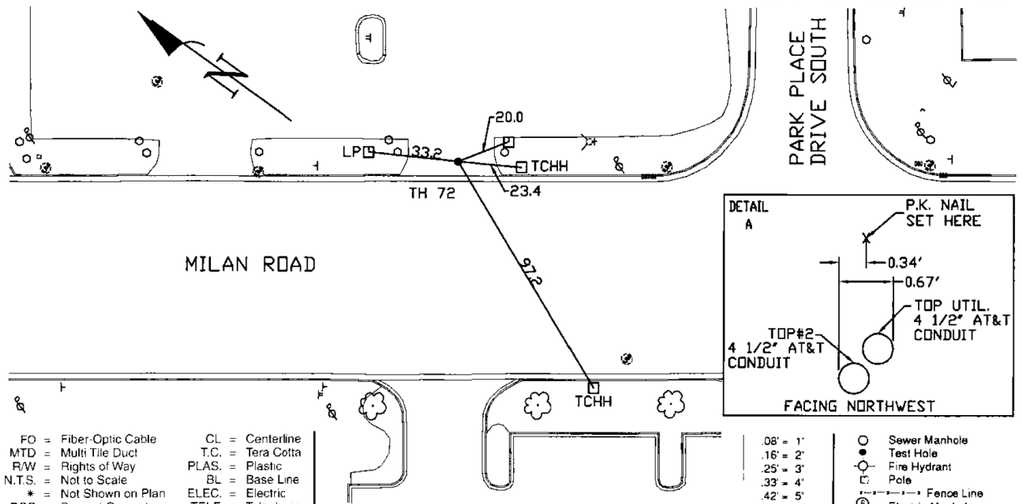
Existing Grade of **ASP. ENTR.**
Survey Mark **P.K. NAIL** (set by So-Deep) Elev. **608.58'**
Facing **NORTHWEST**
4.39' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **604.21'**
Surveyed Elev. Bott. Util/Struc. (if required)
SEE DETAIL A
Width ±

Remarks: * ONE OF THE TWO AT&T CONDUITS CONTAIN FIBER OPTICS AT THIS LOCATION.

TOP#2
ELEV. 603.86
ACTUAL 4.70

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 45.4'± LT OF R/W & CONST. CL STA 193+86.1±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✶ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **73**
Plan Scale **1"=20'**
Sheet # **8**
Proposed **SIGNAL POLE**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **W. CORNER MILAN ROAD & PARK PLACE DR.**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

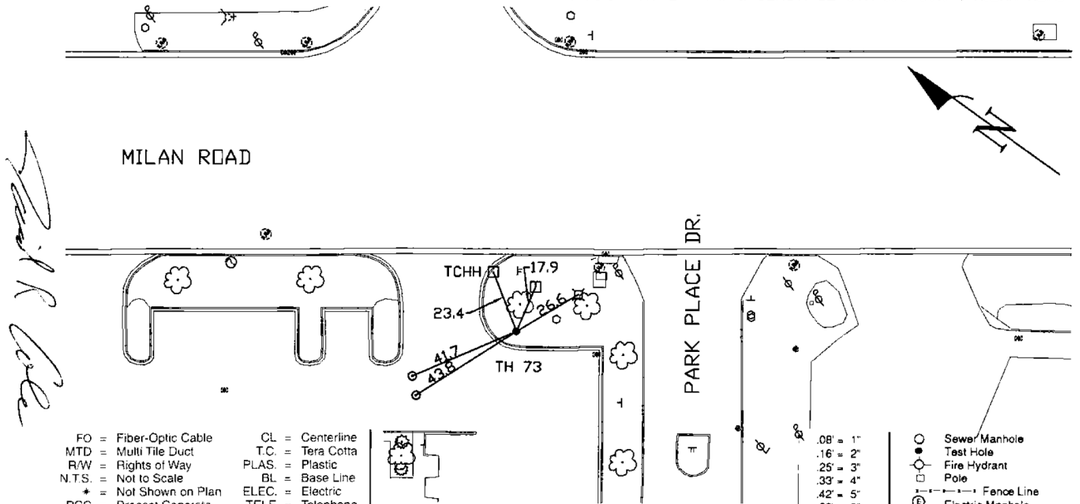
3 1/2" PLASTIC FRONTIER CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **608.39'**
Facing **EAST**
2.10' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **606.30'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #71, JOB EZLD902.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 63.3'± RT OF R/W & CONST. CL STA 195+39.9±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✶ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #72 & #73

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **74**
Plan Scale **1"=20'**
Sheet # **8**
Proposed **CATCH BASIN**
Date **APRIL 8, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **PARK PLACE DRIVE SOUTH AND MILAN ROAD**
Recorded Size/Material/Type **2" UNK. TYPE TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **608.67'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

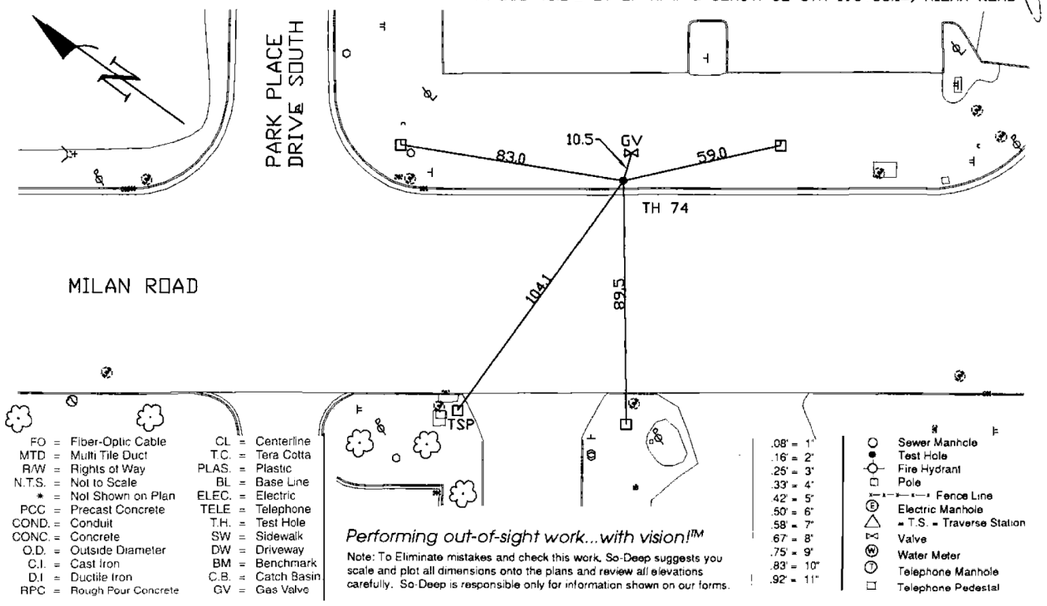
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN**
Truck Location **GRASS SHOULDER**
T.H. tied to **PEG**

2 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**
Survey Mark (set by So-Deep) **PEG**
Elev. **607.25'**
Facing **NORTHWEST**
1.82' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **605.42'**
Surveyed Elev. Bott. Util/Struc (if required)
Width ±

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #75, JOB EZLD902.



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
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COND. = Conduit
CONC. = Concrete
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C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

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T.C. = Tera Cotta
PLAS. = Plastic
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ELEC. = Electric
TELE = Telephone
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BM = Benchmark
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Sewer Manhole
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Telephone Pedestal

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **75**
Plan Scale **1"=20'**
Sheet # **8**
Proposed **CATCH BASIN**
Date **APRIL 8, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **PARK PLACE DRIVE SOUTH AND MILAN ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AND TYPE WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **608.67'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

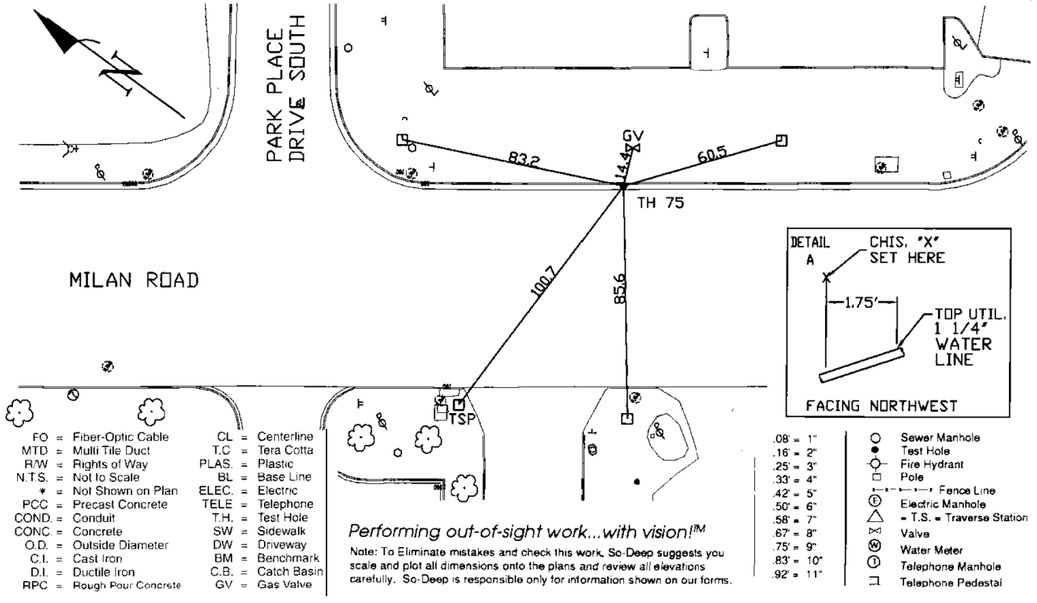
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN**
Truck Location **GRASS SHOULDER**
T.H. tied to **CHIS "X" ***

1 1/4" COPPER WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **CONC. GUTTER**
Survey Mark (set by So-Deep) **CHIS "X" ***
Elev. **606.49'**
Facing
SEE DETAIL A
4.82' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **601.66'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

Remarks:* TEST HOLE DUG IN GRASS R/W, CHIS "X" SET IN CONCRETE GUTTER PAN. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #74, JOB EZLD902.



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PCC = Precast Concrete
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T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #74 & #75

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **77**
Plan Scale **1"=20'**
Sheet # **6**
Proposed **SIGNAL POLE**
Date **APRIL 6, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD @ W.B. RTE 2 ON RAMP**
Recorded Size/Material/Type **UNKNOWN SIZE ELECTRIC LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'**
is **CALCULATED**
Description: **CHIS "X" SET IN N. MOST BONNET BOLT OF F.H., 75'± LT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN**

Truck Location **ASP. SHOULDER**

T.H. tied to **PEG**

1 1/2" PLASTIC ELECTRIC CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **604.13'**

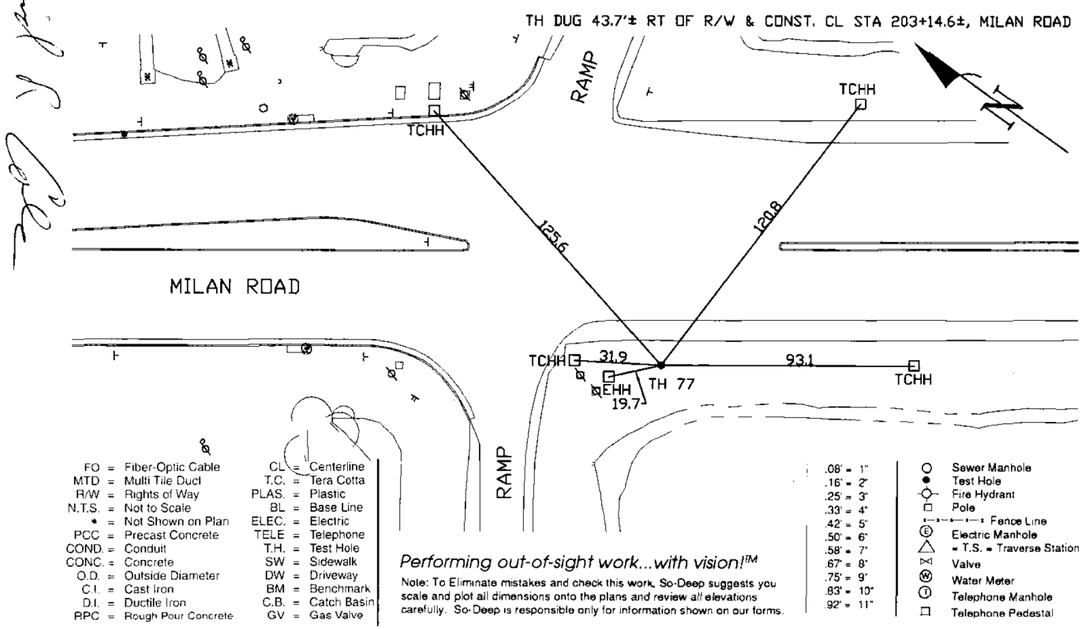
Facing **NORTHWEST**

2.57' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **601.57'**

Surveyed Elev. Bott Util/Struc. (if required)

Width ±



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
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.75' = 9"
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.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **78**
Plan Scale **1"=20'**
Sheet # **6**
Proposed **SIGNAL POLE**
Date **APRIL 6, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD @ W.B. RTE 2 ON RAMP**
Recorded Size/Material/Type **1 1/2" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'**
is **CALCULATED**
Description: **CHIS "X" SET IN N. MOST BONNET BOLT OF F.H., 75'± LT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN**

Truck Location **ASP. SHOULDER**

T.H. tied to **PEG**

1 3/4" PLASTIC TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **605.01'**

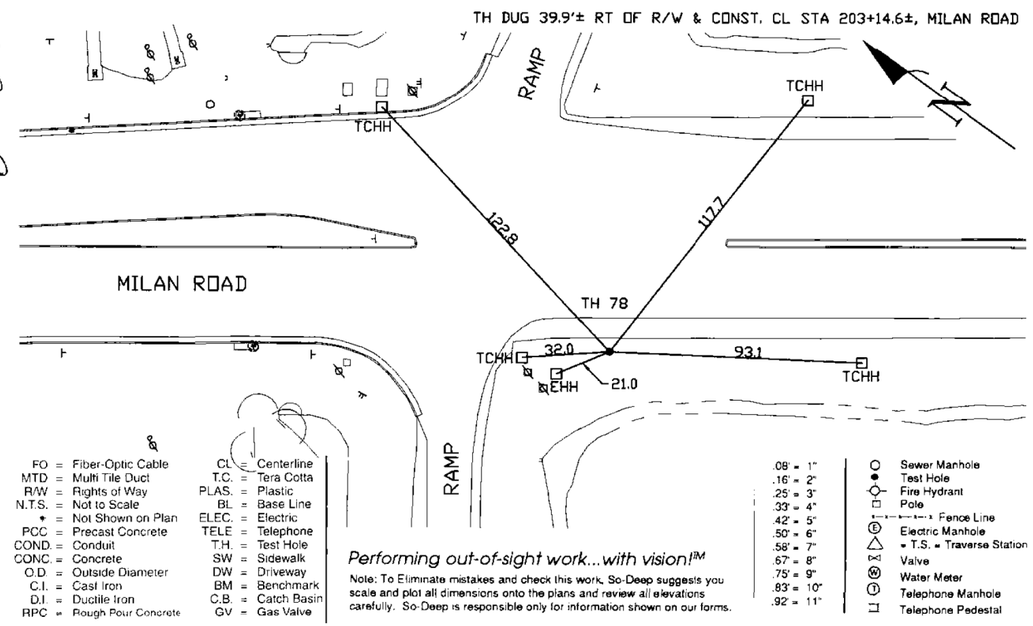
Facing **NORTHWEST**

1.91' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **603.07'**

Surveyed Elev. Bott Util/Struc. (if required)

Width ±



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #77 & #78

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **79**
Plan Scale **1"=20'**
Sheet # **6**
Proposed **CATCH BASIN**
Date **APRIL 6, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER W.B. RTE 2 OFF RAMP & MILAN ROAD**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'**
is **CALCULATED**
Description: **CHIS "X" SET IN N. MOST BONNET BOLT OF F.H., 75'± LT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

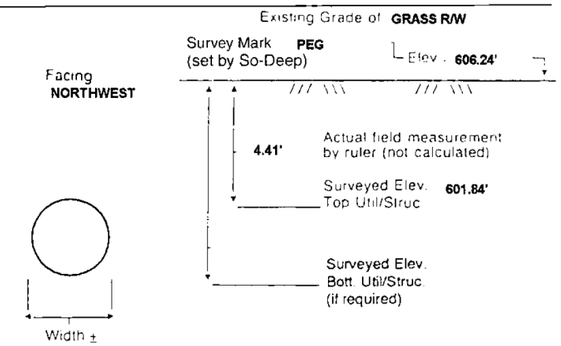
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

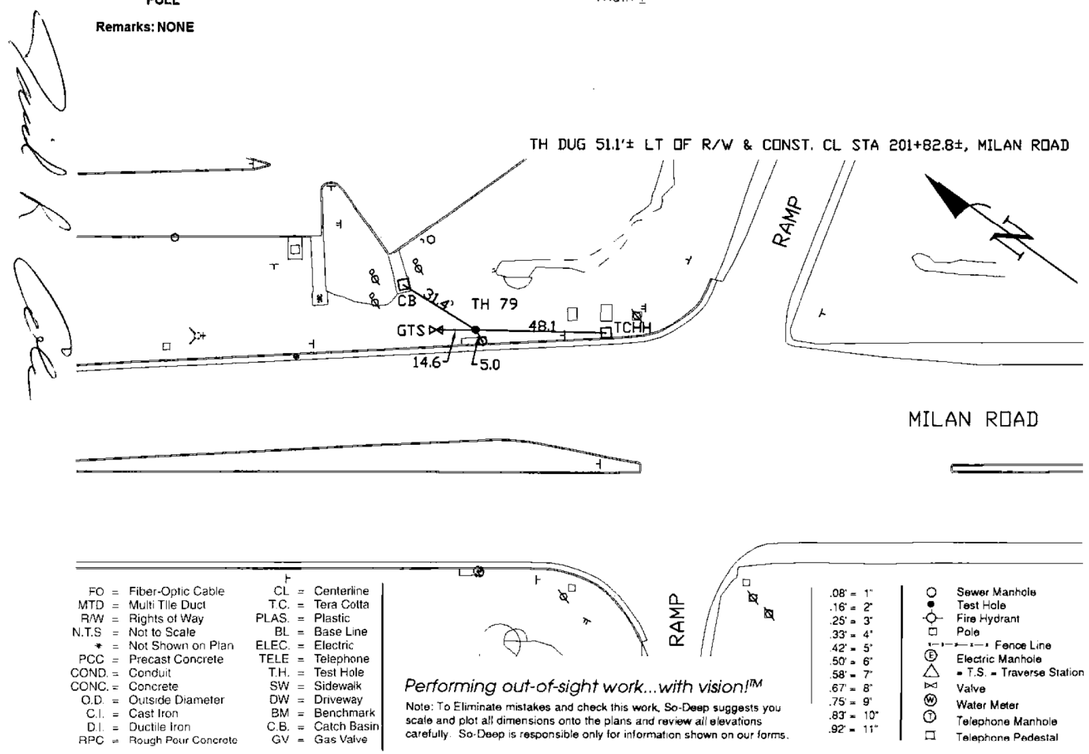
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN**
Truck Location **ASP. SHOULDER**
T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S = Not to Scale	BL = Base Line	.33' = 4"	Pole
✦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **80**
Plan Scale **1"=20'**
Sheet # **6**
Proposed **CURB & GUTTER**
Date **APRIL 17, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. CORNER W.B. RTE 2 OFF RAMP & MILAN ROAD**
Recorded Size/Material/Type **6" C.I. WATER LINE (AATUR)**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **ASP. SHLDR. IN GOOD CONDITION**

B.M. 1 Elev. = **608.67'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'**
is **CALCULATED**
Description: **CHIS "X" SET IN N. MOST BONNET BOLT OF F.H., 75'± LT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

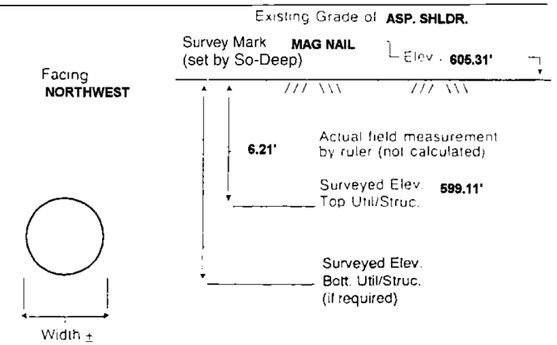
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

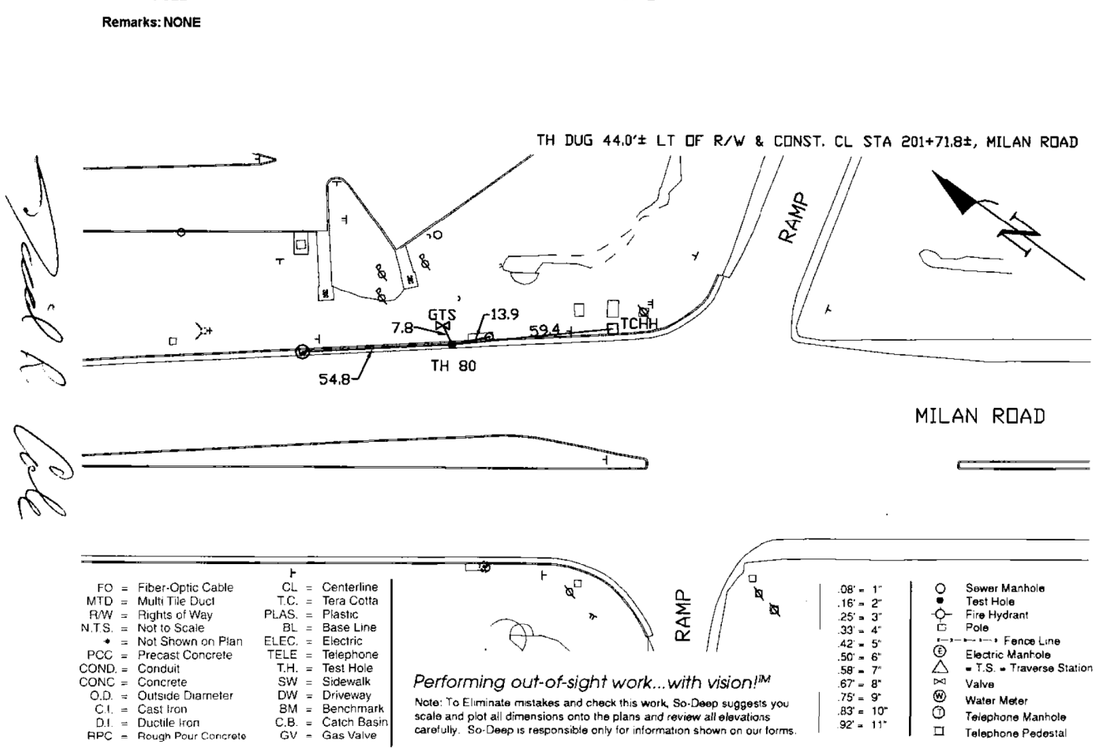
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **3 1/2" ASP. / 7" CONC.**
Color of ribbon installed **BLUE**
Soil Type **WET BROWN**
Truck Location **ASPHALT SHOULDER**
T.H. tied to **MAG NAIL**

7" C.I. WATER LINE (AATUR)
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #79 & #80

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLD902
Test Hole #	81
Plan Scale	1"=20'
Sheet #	6
Proposed	T.C. BOX
Date	APRIL 6, 2013

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD @ W.B. RTE 2 ON RAMP**
Recorded Size/Material/Type **UNKNOWN SIZE ELECTRIC LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'** is **CALCULATED**
Description: **CHIS "X" SET IN N. MOST BONNET BOLT OF F.H., 75'± LT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

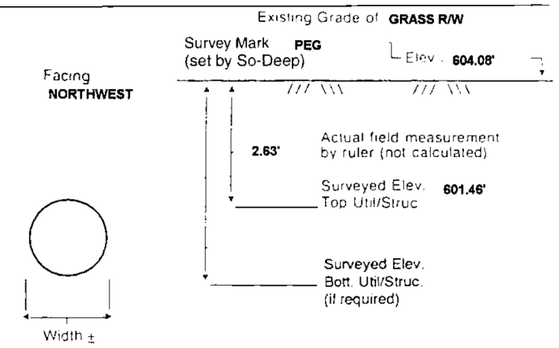
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

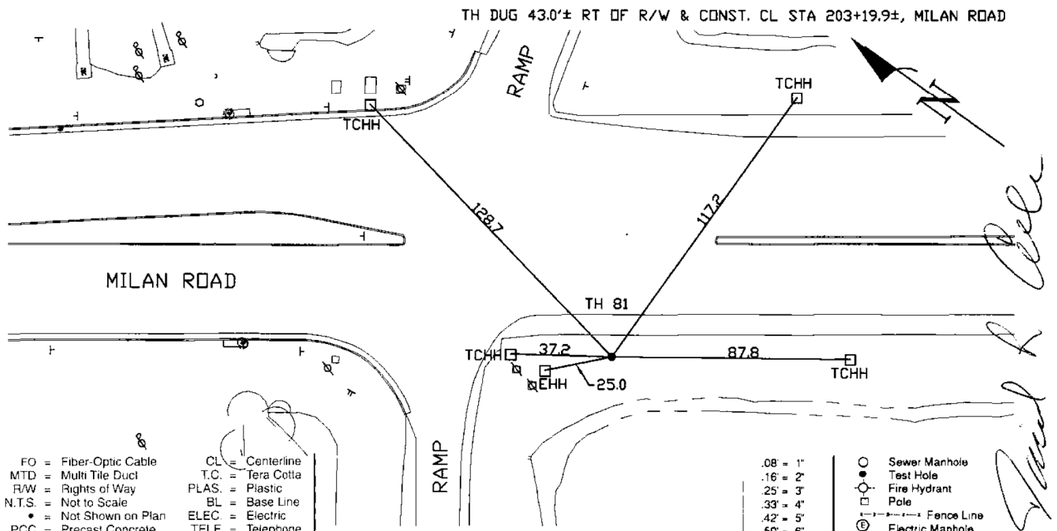
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN**
Truck Location **ASP. SHOULDER**
T.H. tied to **PEG**

1 1/2" PLASTIC ELECTRIC CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
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RPC = Rough Pour Concrete

CL = Centerline
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T.H. = Test Hole
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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
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Water Meter
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Telephone Pedestal

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLD902
Test Hole #	83
Plan Scale	1"=20'
Sheet #	4
Proposed	12" STORM
Date	APRIL 6, 2013

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #5902, MILAN ROAD**
Recorded Size/Material/Type **16" DUCTILE IRON WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 42'± LT OF R/W & CONST. CL STA 219+79±, MILAN ROAD**

B.M. 2 Elev. = **610.43'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 214+40±, MILAN ROAD**

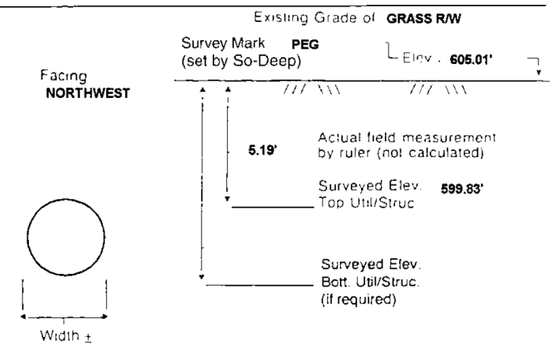
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

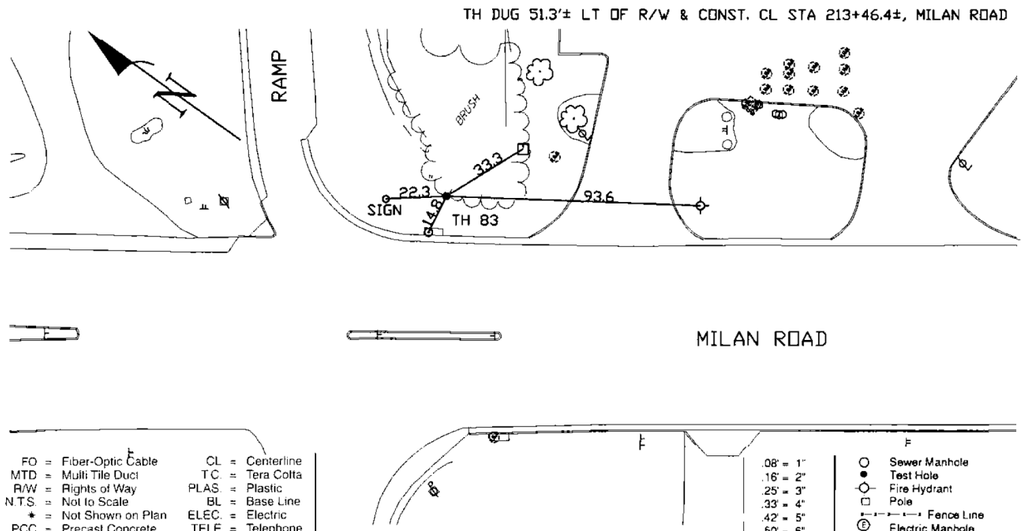
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN**
Truck Location **GRASS SHOULDER**
T.H. tied to **PEG**

17" DUCTILE IRON WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
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BM = Benchmark
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GV = Gas Valve

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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #81 & #83

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **84**
Plan Scale **1"=20'**
Sheet # **4**
Proposed **12" STORM**
Date **APRIL 8, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #5902, MILAN ROAD**
Recorded Size/Material/Type **6" COATED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 42'± LT OF R/W & CONST. CL STA 219+79±, MILAN ROAD**

B.M. 2 Elev. = **610.43'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 214+40±, MILAN ROAD**

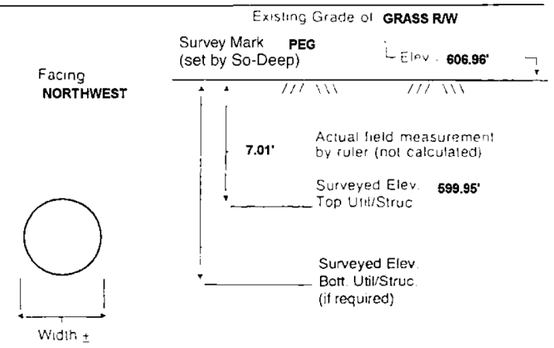
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

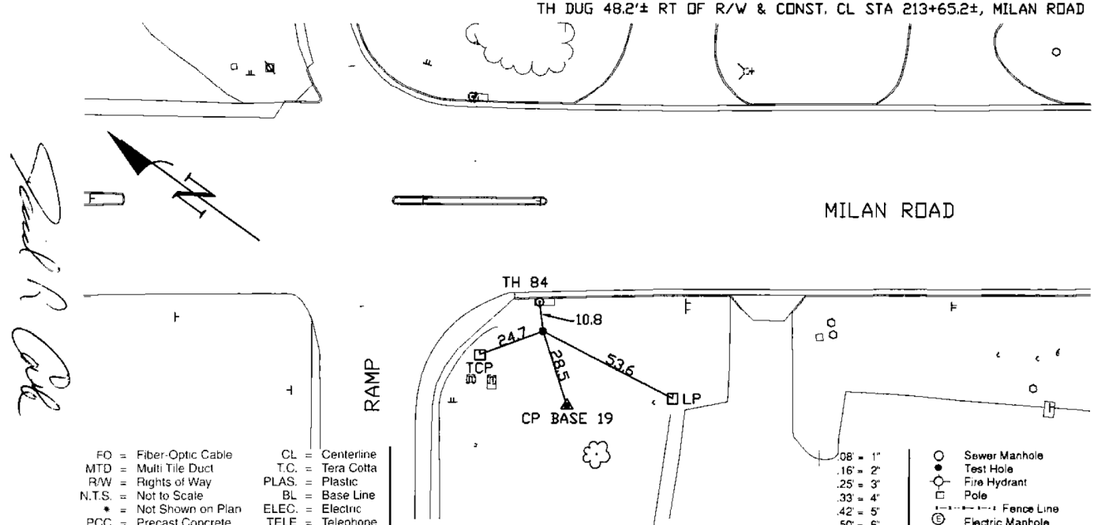
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE



TH DUG 48.2'± RT OF R/W & CONST. CL STA 213+65.2±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **85**
Plan Scale **1"=20'**
Sheet # **2A**
Proposed **CATCH BASIN**
Date **APRIL 6, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BEATTY LANE AND MILAN ROAD**
Recorded Size/Material/Type **16" UNKNOWN TYPE WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

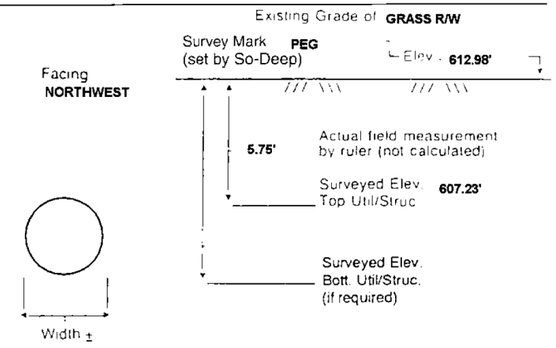
Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

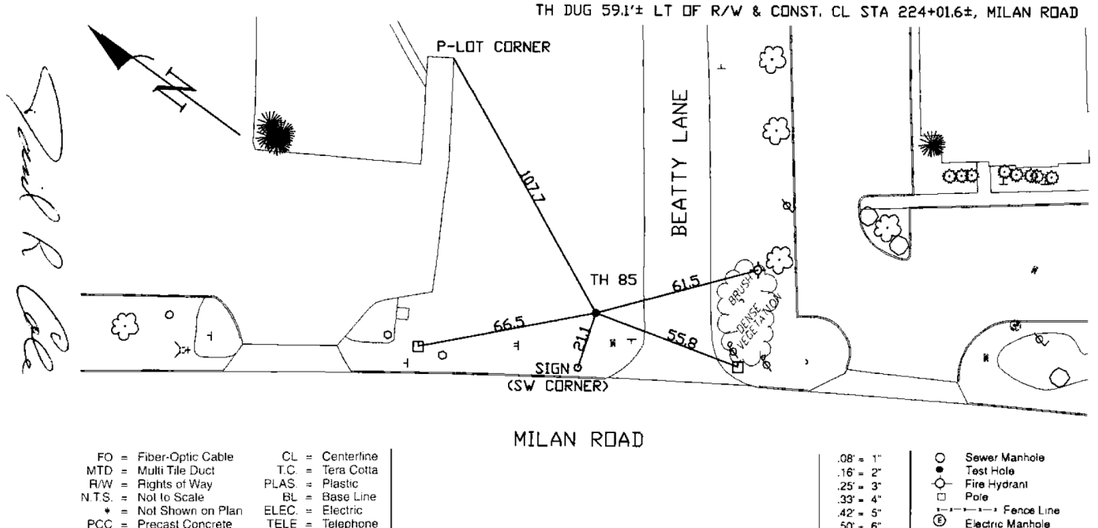
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT RDWY**
T.H. tied to **PEG**

17" DUCTILE IRON WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

Remarks: NONE



TH DUG 59.1'± LT OF R/W & CONST. CL STA 224+01.6±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #84 & #85

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **86**
Plan Scale **1"=20'**
Sheet # **2A**
Proposed **CATCH BASIN**
Date **APRIL 6, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #6015, MILAN ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AND TYPE WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

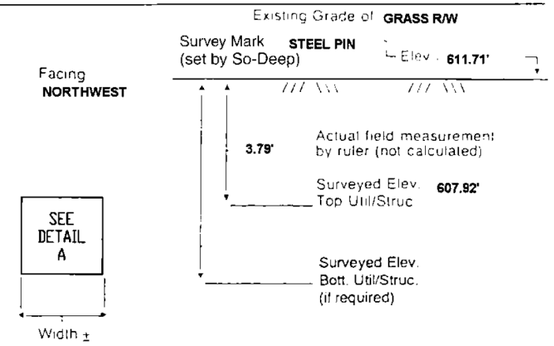
Soil Type **MOIST BROWN**

Truck Location **GRASS R/W**

T.H. tied to **STEEL PIN**

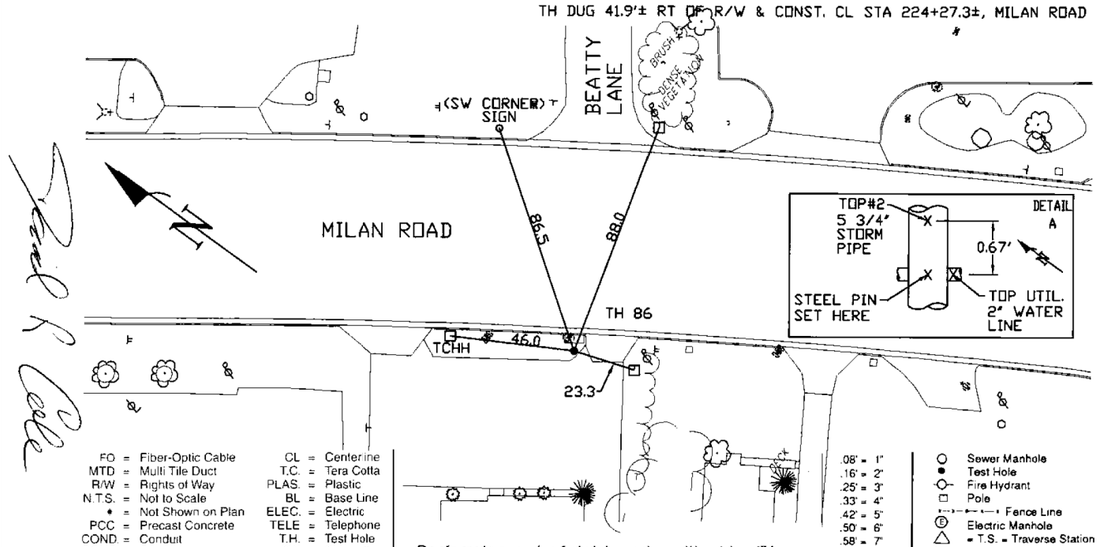
2" COPPER WATER LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW ALSO FOUND A 5 3/4" PLASTIC STORM PIPE RUNNING ABOVE AND PARALLEL TO THE WATER LINE. CREW FOUND THE 5 3/4" STORM PIPE MAKING A NOTICEABLE VERTICAL GRADE CHANGE DOWNWARD TOWARD THE SW AT THIS LOCATION.



TOP#2
ELEV. 610.05
ACTUAL 1.65

TH DUG 41.9'± RT OF R/W & CONST. CL STA 224+27.3±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **88**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

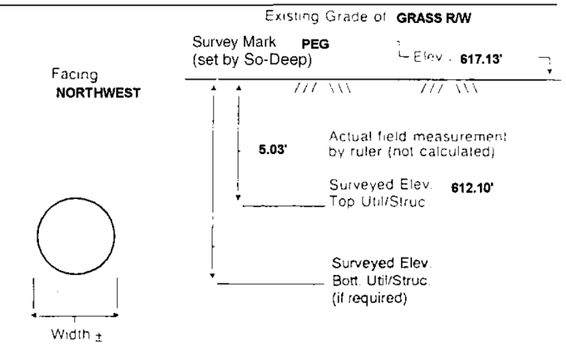
Soil Type **ROCKY BROWN**

Truck Location **GRASS R/W**

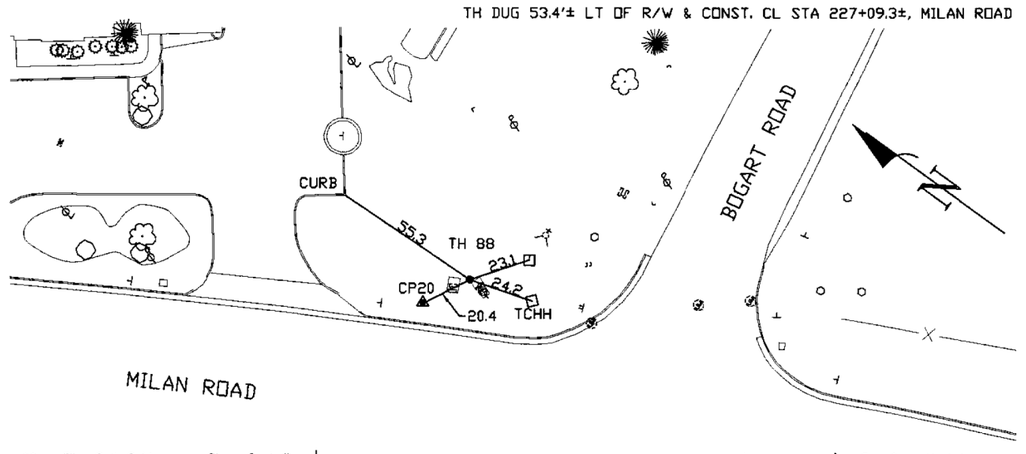
T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE



TH DUG 53.4'± LT OF R/W & CONST. CL STA 227+09.3±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #86 & #88

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **90**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **8" UNKNOWN TYPE WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **CONC. PAVE IN POOR CONDITION**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

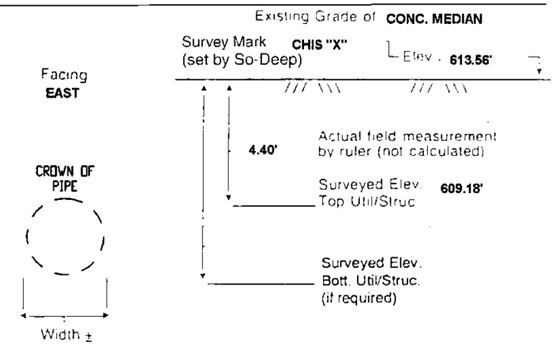
B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

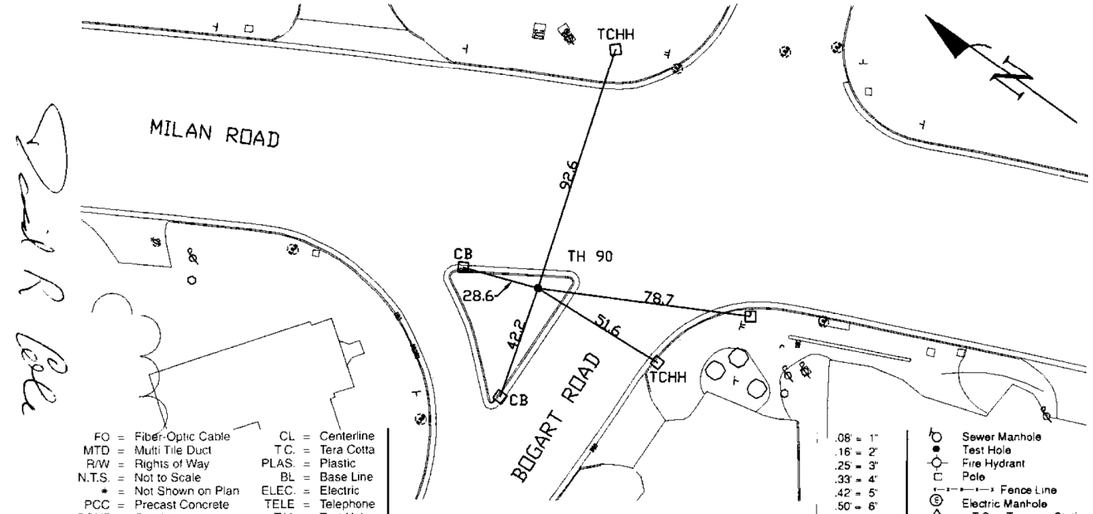
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **4" CONCRETE**
Color of ribbon installed **BLUE**
Soil Type **WET BROWN**
Truck Location **CONCRETE MEDIAN**
T.H. tied to **CHIS "X"**

8" (I.D.) METALLIC WATER LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)



Remarks: * CREW WAS UNABLE TO OBTAIN AN ACCURATE O.D. MEASURMENT ON THE 8" WATER LINE DUE TO COPIOUS WATER IN THE TEST HOLE. UTILITY RECORDS RESEARCH,TOPSIDE SURVEY AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.

TH DUG 42.8'± RT OF R/W & CONST. CL STA 227+18.0±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete
CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **91**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **CATCH BASIN**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **2-WAY MTD AT&T**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

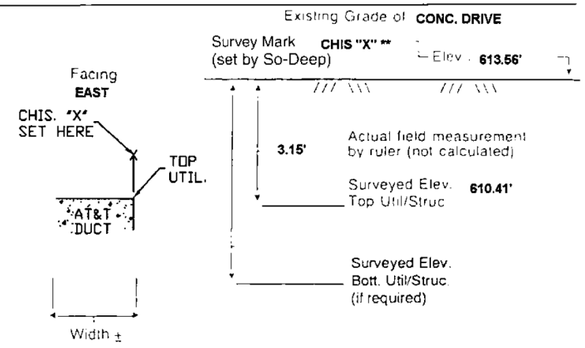
B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

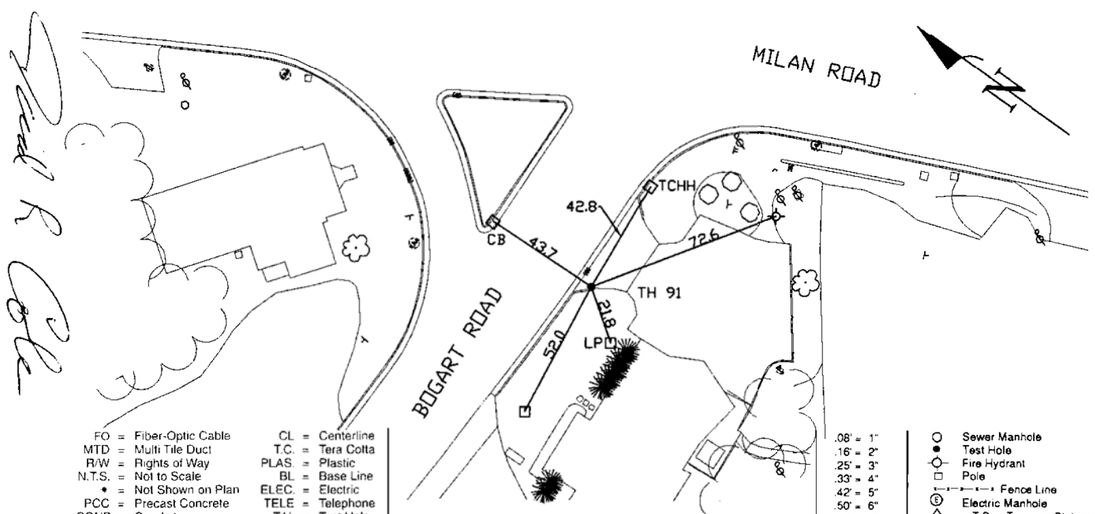
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **WET BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **CHIS "X" ****

1.3'+ WIDE - SOUTH EDGE OF R.P.C. AT&T DUCT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A



Remarks: * CREW WAS UNABLE TO OBTAIN AN ACCURATE WIDTH MEASURMENT OR BOTTOM ELEVATION ON THE AT&T DUCT DUE TO COPIOUS WATER IN THE TEST HOLE. UTILITY RECORDS RESEARCH, TOPSIDE SURVEY AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY. ** TEST HOLE WAS DUG IN GRASS R/W, CHIS "X" SET IN CONCRETE DRIVE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #97 & #98, JOB EZLD902.

TH DUG 102.6'± RT OF R/W & CONST. CL STA 227+50.9±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete
CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #90 & #91

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **92**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **1 1/2" PLASTIC TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **DRY BROWN**

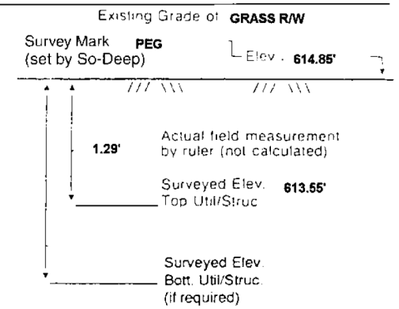
Truck Location **GRASS R/W**

T.H. tied to **PEG**

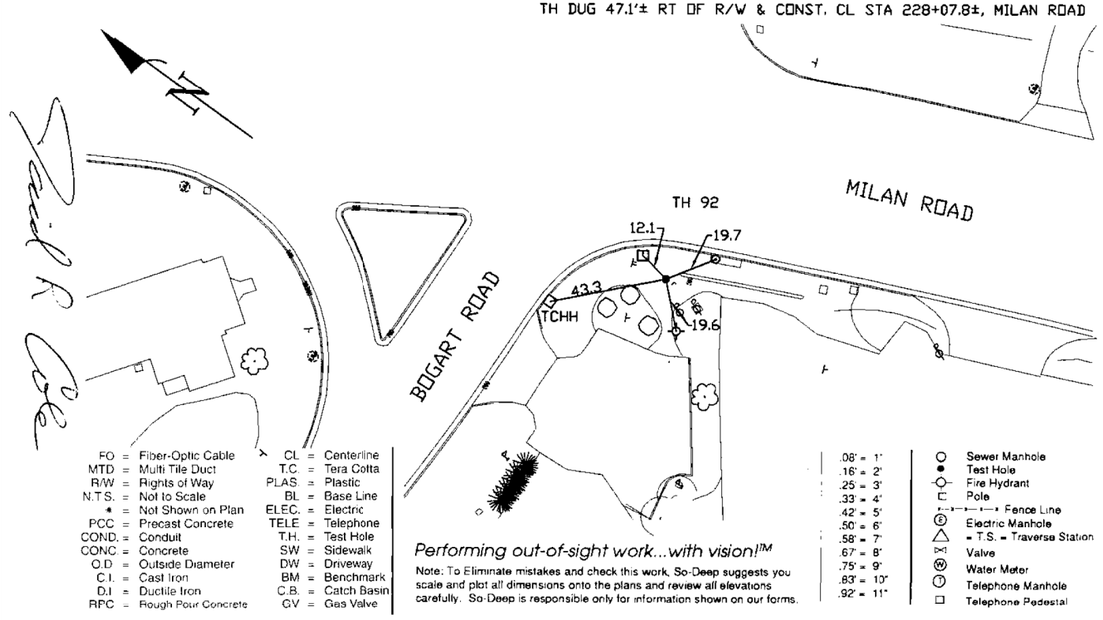
2" PLASTIC TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE

Facing **NORTHWEST**



TH DUG 47.1'± RT OF R/W & CONST. CL STA 228+07.8±, MILAN ROAD



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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **93**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **2-WAY MTD AND (2) 4" SWT AT&T CONDUITS**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **ROCKY BROWN**

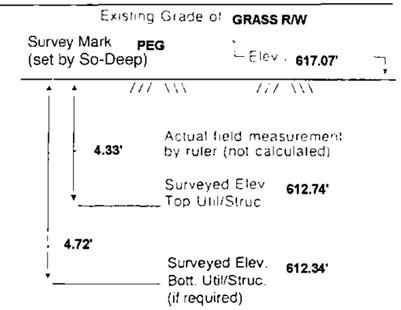
Truck Location **GRASS R/W**

T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Facing

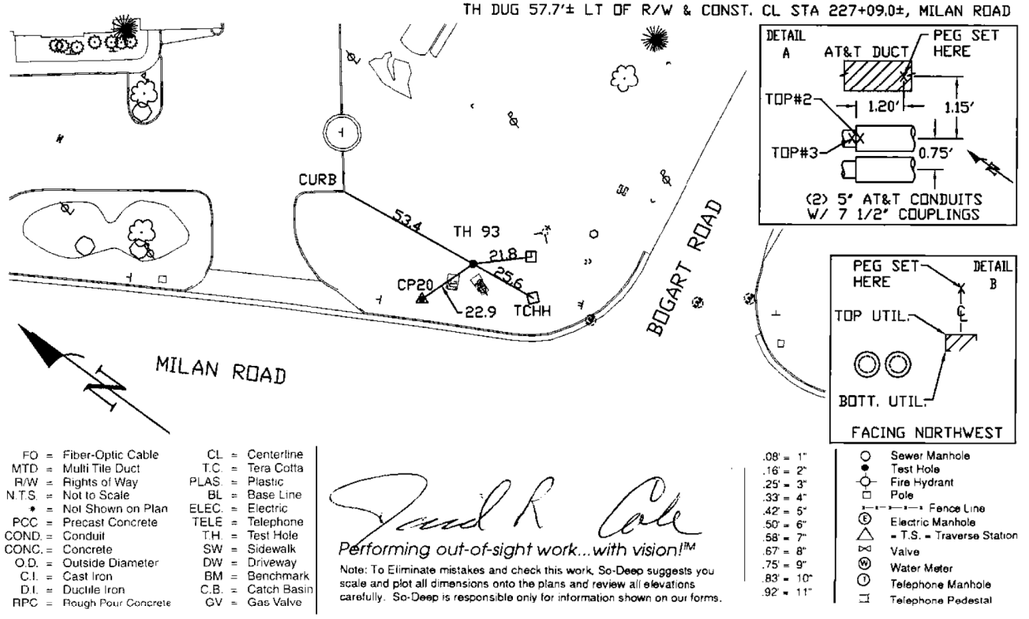
SEE DETAIL A



Remarks: * CREW FOUND A 0.40' H. X 0.75' W. TERRA COTTA AT&T DUCT AND (2) 5" TERRA COTTA AT&T CONDUITS WITH A 7 1/2" COUPLING.

	TOP#2	TOP#3
ELEV.	612.27	612.17
ACTUAL	4.78	4.88

TH DUG 57.7'± LT OF R/W & CONST. CL STA 227+09.0±, MILAN ROAD



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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Enid R Cole

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #92 & #93

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **94**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE AND TYPE TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

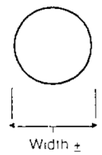
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY BROWN**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

2 1/2" PLASTIC TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **FULL**

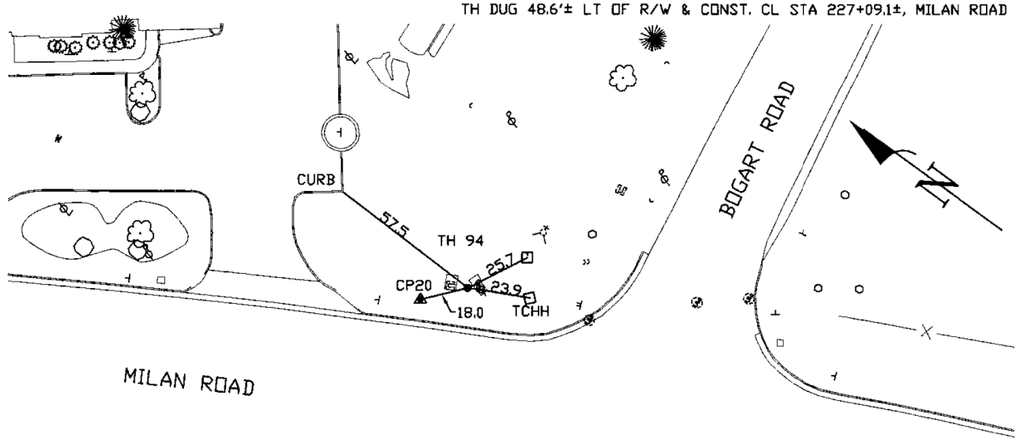
Remarks: NONE

Facing **NORTH**



Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep)
Elev. **617.30'**
1.24' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **616.04'**
Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 48.6'± LT OF R/W & CONST. CL STA 227+09.1±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
▲ = T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **95**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 6, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **3-WAY MTD AT&T AND 4" SWT AT&T CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **ASPHALT PAVE IN GOOD CONDITION**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

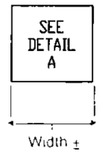
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **6" ASPHALT**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT RDWY**
T.H. tied to **P.K. NAIL**

RPC SHEATH OVER TERRA COTTA AT&T DUCT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement: **N/A**

Remarks: * CREW ALSO FOUND A 5" TERRA COTTA AT&T CONDUIT RUNNING BESIDE AND PARALLEL TO THE AT&T DUCT.

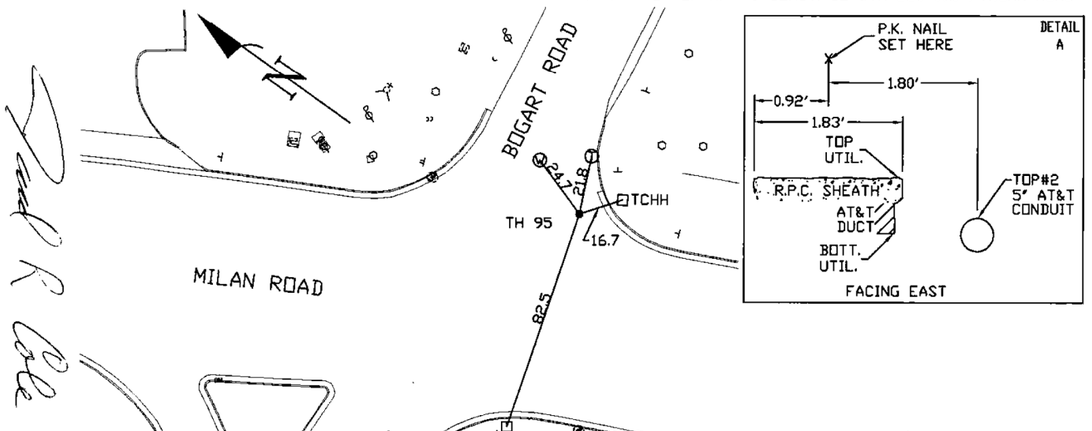
Facing **EAST**



Existing Grade of **ASPHALT RDWY**
Survey Mark **P.K. NAIL** (set by So-Deep)
Elev. **616.57'**
3.87' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **612.73'**
4.54'
Surveyed Elev. Bott. Util/Struc. (if required) **612.04'**

TOP#2
ELEV. 612.24
ACTUAL 4.33

TH DUG 41.5'± LT OF R/W & CONST. CL STA 228+10.1±, MILAN ROAD



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Sewer Manhole
Test Hole
Fire Hydrant
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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #94 & #95

ERI-250-0.00

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SO-DEEP US, P.C.
The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **96**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **SIGNAL POLE**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **2" UNK. TYPE TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **CONC. PAVE IN POOR CONDITION**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

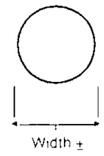
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

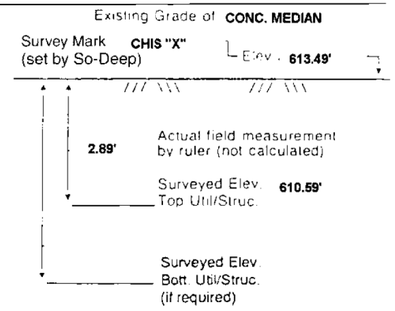
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS NOT** in good condition **SEE REMARKS**
Paving Thickness and type **4" CONCRETE**
Color of ribbon installed **RED**
Soil Type **MOIST BROWN**
Truck Location **CONCRETE MEDIAN**
T.H. tied to **CHIS "X"**

2 1/2" METALLIC TRAFFIC CONTROL CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

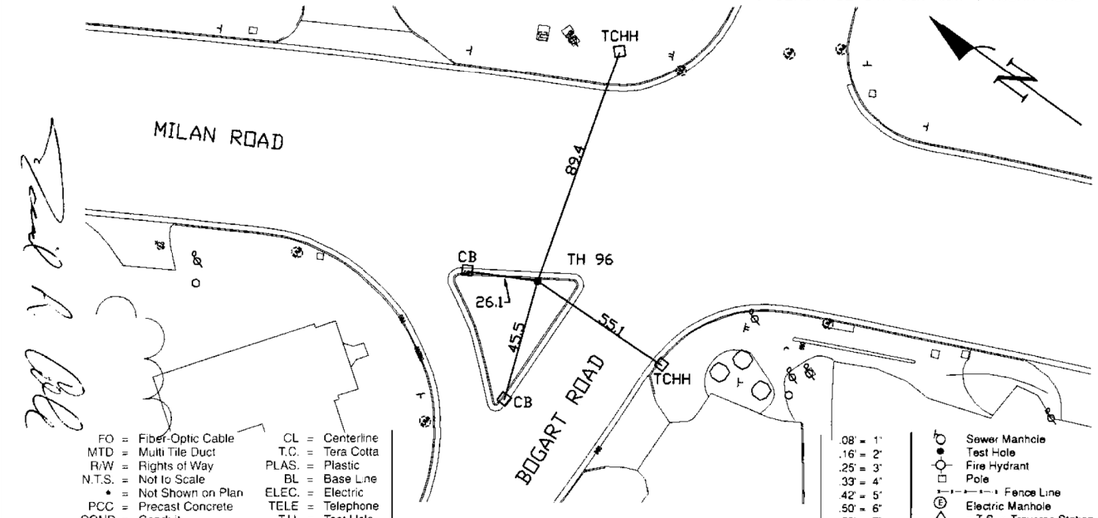
Remarks: * CREW FOUND THE TRAFFIC CONTROL CONDUIT CORRODED AT THIS LOCATION.

Facing **NORTHWEST**





TH DUG 39.1'± RT OF R/W & CONST. CL STA 227+15.7±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
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SO-DEEP US, P.C.
The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **97**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **CATCH BASIN**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **4" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

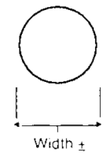
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

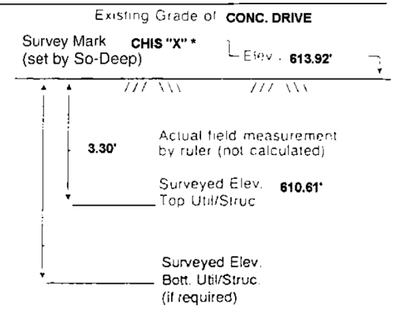
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **CHIS "X" ***

4 3/4" WRAPPED STEEL GAS LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

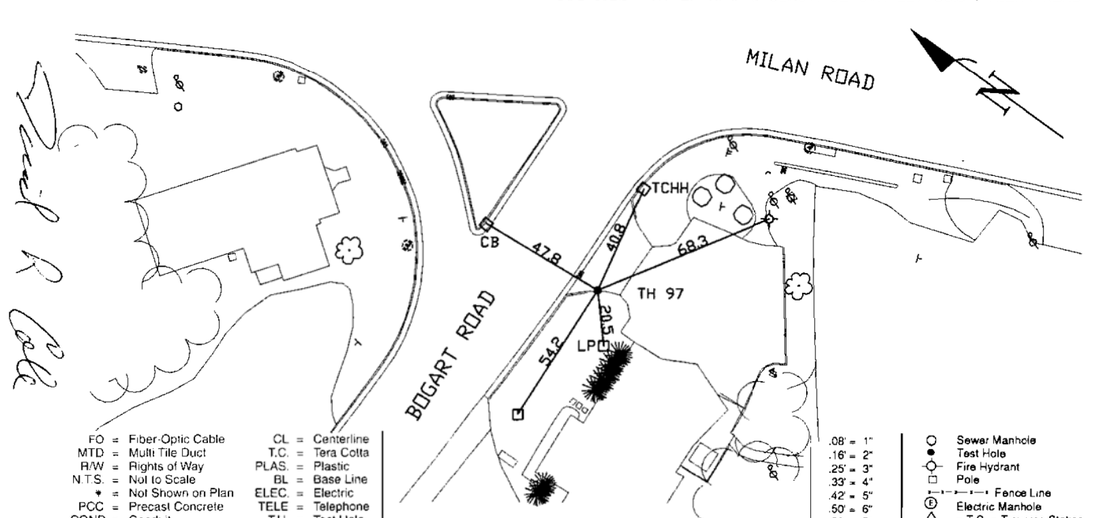
Remarks: * TEST HOLE DUG IN GRASS R/W, CHIS "X" SET IN CONCRETE DRIVE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #91 & #98, JOB EZLD902.

Facing **EAST**





TH DUG 102.1'± RT OF R/W & CONST. CL STA 227+55.8±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #96 & #97

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **98**
Plan Scale **1"=20'**
Sheet # **2**
Proposed **CATCH BASIN**
Date **APRIL 5, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BOGART ROAD AND MILAN ROAD**
Recorded Size/Material/Type **12" DUCTILE IRON WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'**
is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'**
is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.03'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **PEG**

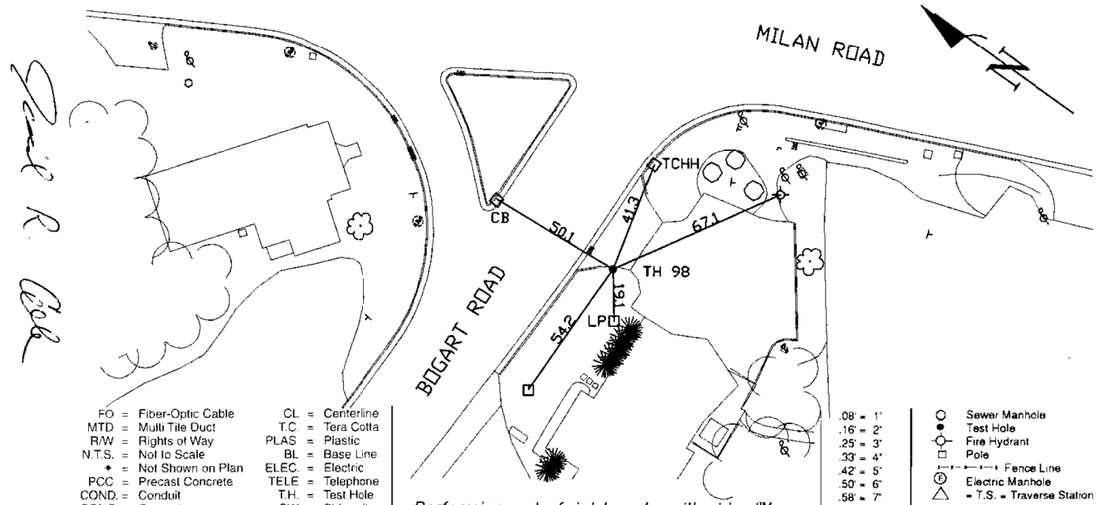
12 3/4" DUCTILE IRON WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **EAST**

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep)
Elev. **614.18'**
4.67' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **609.49'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #91 & #97, JOB EZLD902.

TH DUG 103.0'± RT OF R/W & CONST. CL STA 227+58.0±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **99**
Plan Scale **1"=20'**
Sheet # **18**
Proposed **12" STORM**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #4416, MILAN ROAD**
Recorded Size/Material/Type **4" PLASTIC TYPE GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **ASPHALT PAVING GOOD CONDITION**

B.M. 1 Elev. = **613.70'**
is **GIVEN**
Description: **(CP14) TOP OF 5/8" IRON PIN & CAP FOUND, 52.02' LT OF R/W & CONST. CL STA 138+37.19, MILAN ROAD**

B.M. 2 Elev. = **613.84'**
is **GIVEN**
Description: **(ERI0250015) TOP OF 3/4" IRON PIN FOUND, 0.35' RT OF R/W & CONST. CL STA 139+73.62, MILAN ROAD**

Benchmarks Check **BY 0.05'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **4" ASPHALT**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **P.K. NAIL**

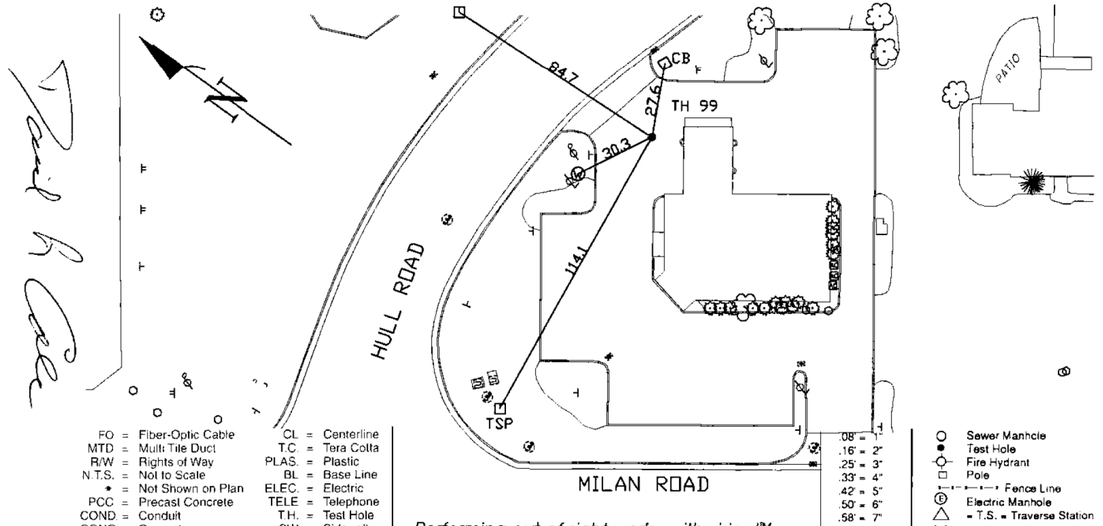
4 1/2" PLASTIC GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **EAST**

Existing Grade of **ASPHALT LOT**
Survey Mark **P.K. NAIL** (set by So-Deep)
Elev. **612.93'**
3.23' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **609.73'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

Remarks: NONE

TH DUG 7.4'± RT OF R/W & CONST. CL STA 13+72.6±, HULL ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #98 & #99

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **100**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **CATCH BASIN**
Date **APRIL 12, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **FUN DR. JUST SW OF MILAN ROAD**
Recorded Size/Material/Type **8" UNK. TYPE WATER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.87'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

B.M. 2 Elev. = **613.59'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

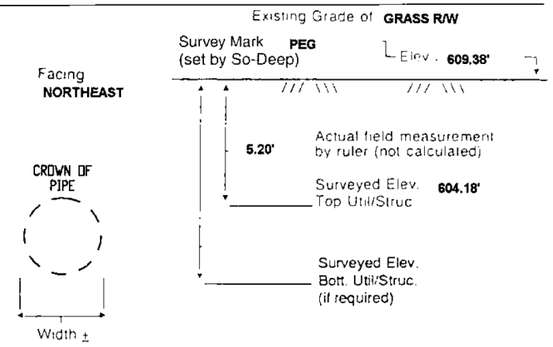
Color of ribbon installed **BLUE**

Soil Type **MOIST BROWN W/ROCK**

Truck Location **ASPHALT PARKING LOT**

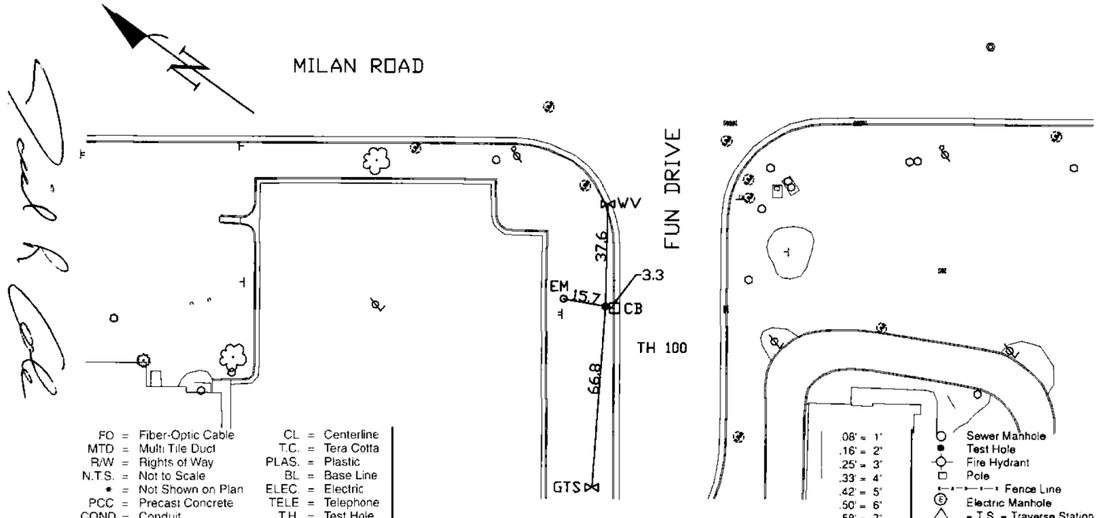
T.H. tied to **PEG**

8" (I.D.) D.I. WATER LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)



Remarks: * CREW COULD NOT OBTAIN AN ACCURATE O.D. MEASUREMENT DUE TO COPIOUS AMOUNT OF WATER & UNSTABLE GROUND CONDITIONS IN THE TEST HOLE. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH & ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.

TH DUG 101.8'± RT OF R/W & CONST. CL STA 188+69.4±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
• = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans *and review all elevations* carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **101**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT FUN DRIVE AND MILAN ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AND TYPE ELECTRIC LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

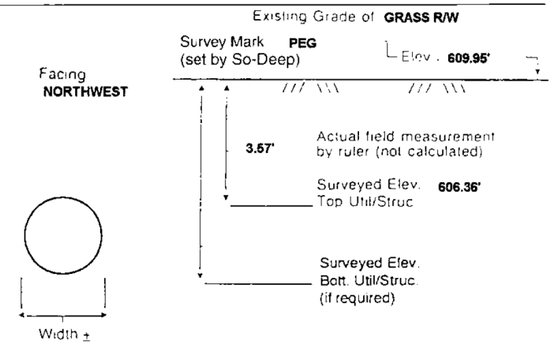
Color of ribbon installed **RED**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT RDWY**

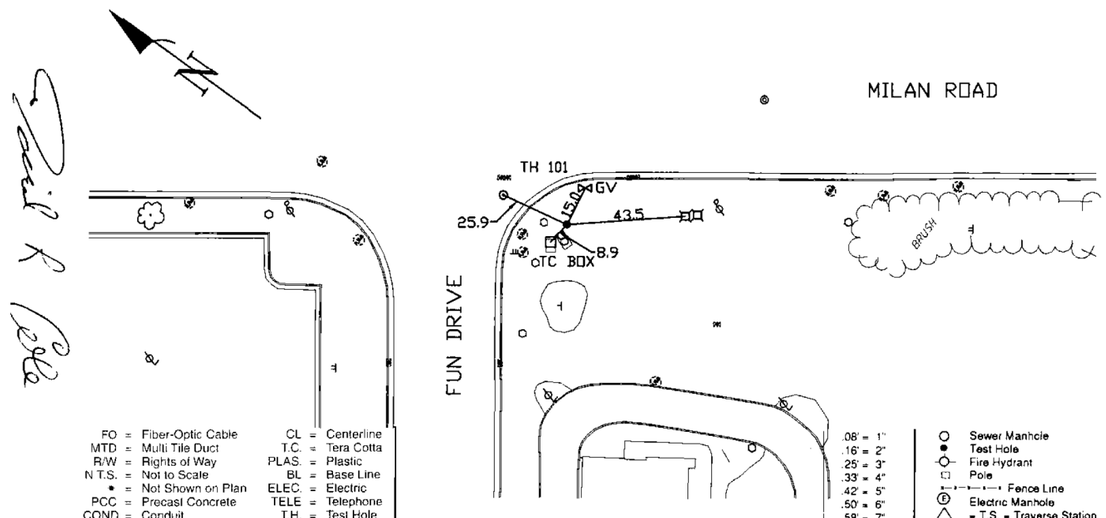
T.H. tied to **PEG**

4 1/2" PLASTIC ELECTRIC CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #105 & #106, JOB EZLD902.

TH DUG 51.6'± RT OF R/W & CONST. CL STA 189+38.2±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
• = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans *and review all elevations* carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #100 & #101

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **102**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 10, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #5316, MILAN ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AND TYPE AT&T LINES**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT LOT**

T.H. tied to **PEG**

(2) 4 /12" STEEL AT&T CONDUITS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **610.30'**

Facing **NORTHWEST**

3.96' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc **606.31'**

Surveyed Elev. Bott. Util/Struc. (if required)

SEE DETAIL A

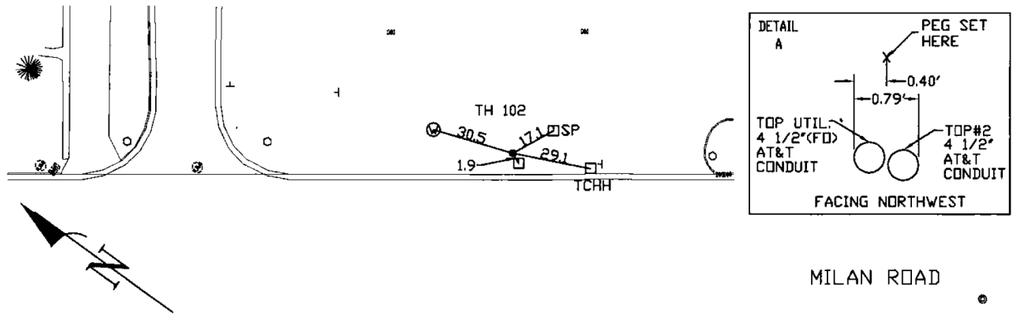
Width ± **0.79'**

TOP#2
ELEV. **606.22**
ACTUAL **4.09**

Remarks: * ONE OF THE TWO AT&T CONDUITS CONTAIN FIBER OPTICS AT THIS LOCATION. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #107 & #108, JOB EZLD902.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 47.8'± LT OF R/W & CONST. CL STA 188+37.8±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **103**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **CATCH BASIN**
Date **APRIL 10, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING#5316, MILAN ROAD**
Recorded Size/Material/Type **3" STEEL TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT LOT**

T.H. tied to **PEG**

3 1/2" STEEL TRAFFIC CONTROL CONDUIT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **610.11'**

Facing **NORTHWEST**

2.55' Actual field measurement by ruler (not calculated)

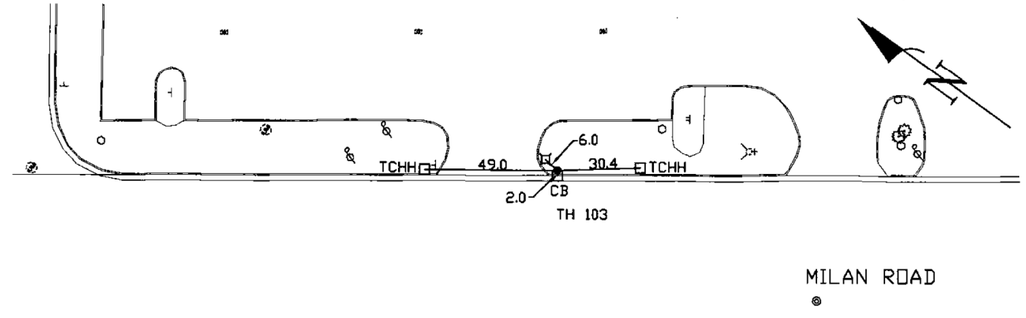
Surveyed Elev. Top Util/Struc **607.56'**

Surveyed Elev. Bott. Util/Struc. (if required)

Width ±

Remarks: NONE

TH DUG 41.9'± LT OF R/W & CONST. CL STA 189+15.3±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
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.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #102 & #103

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **104**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING#5316, MILAN ROAD**
Recorded Size/Material/Type **6" COATED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT LOT**

T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **NORTHWEST**

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **610.31'**

5.71' Actual field measurement by ruler (not calculated)

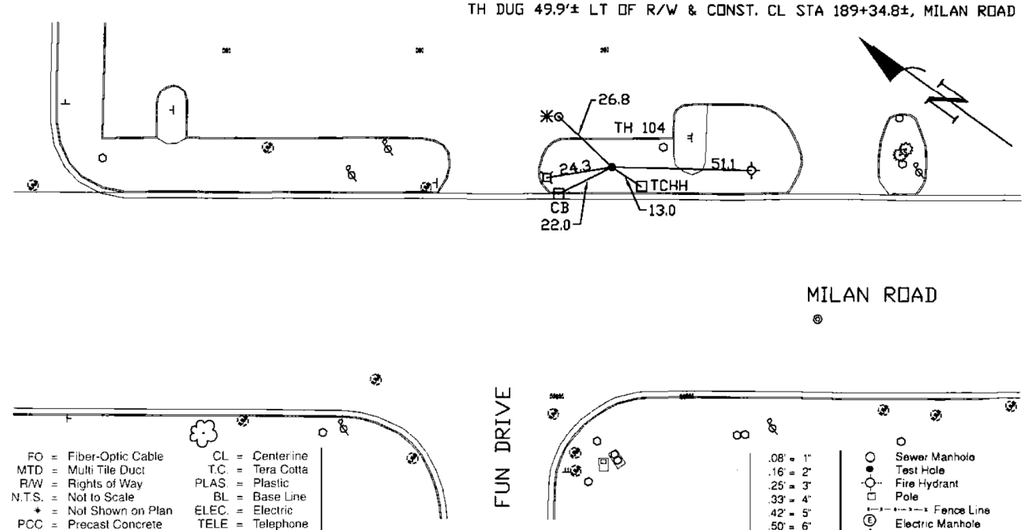
Surveyed Elev. Top Util/Struc. **604.62'**

Surveyed Elev. Bott. Util/Struc. (if required)

Width ±

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #109, JOB EZLD902.

TH DUG 49.9'± LT OF R/W & CONST. CL STA 189+34.8±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	*Telephone* Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **105**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT FUN DRIVE AND MILAN ROAD**
Recorded Size/Material/Type **1 1/2" PLASTIC TRAFFIC CONTROL CONDUIT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **RED / ORANGE**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

2" PLASTIC TRAFFIC CONTROL CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **NORTHWEST**

SEE DETAIL A

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **609.85'**

1.34' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc. **608.51'**

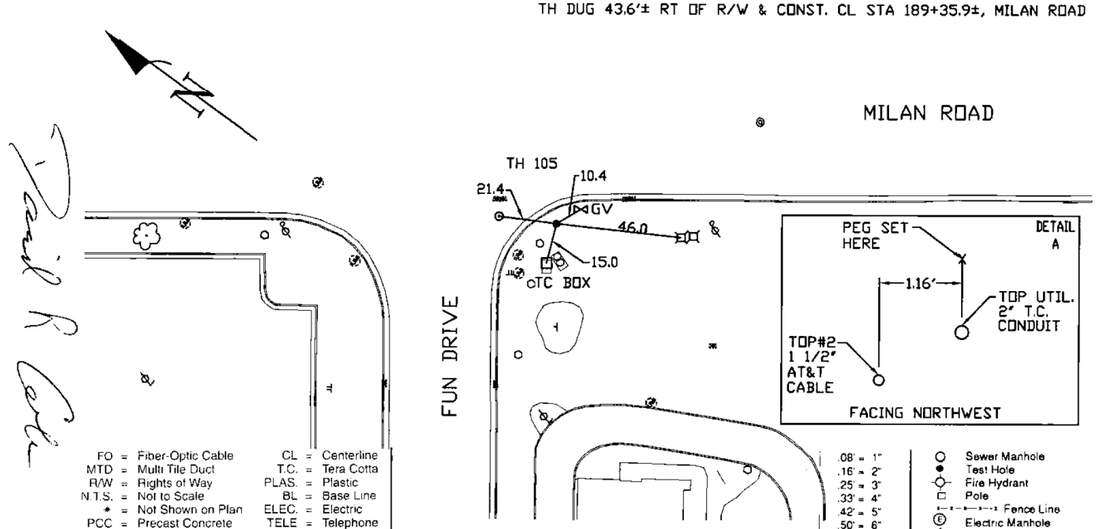
Surveyed Elev. Bott. Util/Struc. (if required)

Width ±

Remarks: * CREW ALSO FOUND A 1 1/2" AT&T CABLE RUNNING BELOW AND PARALLEL TO THE T.C. CONDUIT. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #101 & #106, JOB EZLD902.

TOP#2	
ELEV.	607.90
ACTUAL	1.96

TH DUG 43.6'± RT OF R/W & CONST. CL STA 189+35.9±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
✦ = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	*Telephone* Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #104 & #105

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **106**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT FUN DRIVE AND MILAN ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AT&T CABLE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

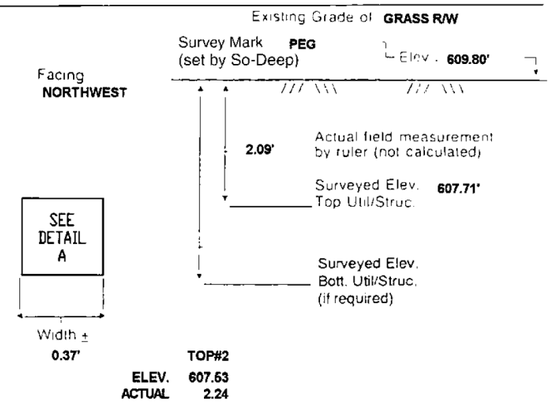
Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT RDWY**

T.H. tied to **PEG**

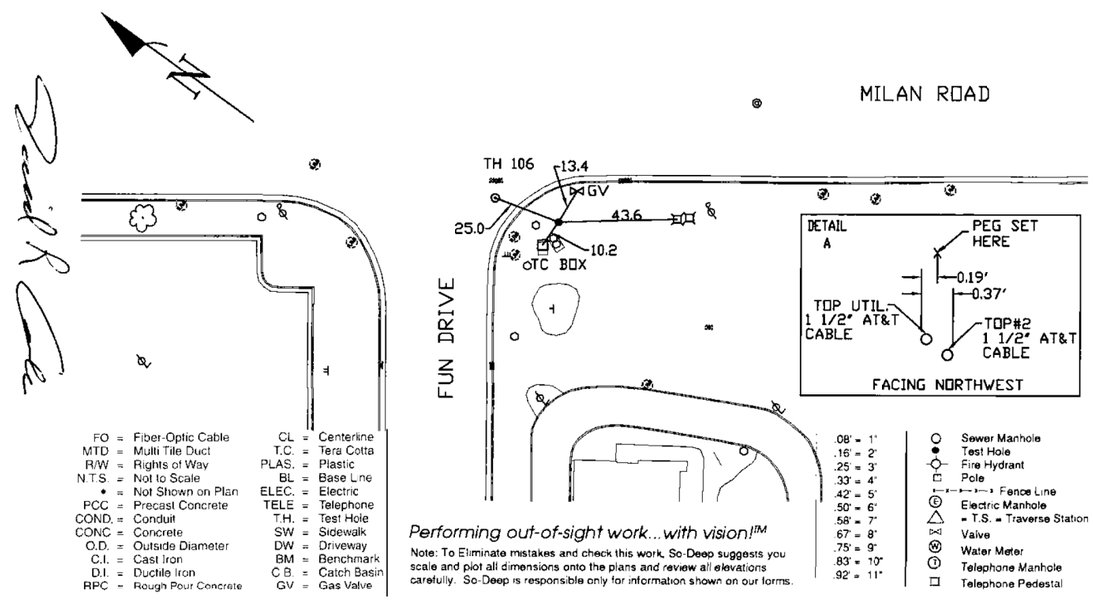
(2) 1 1/2" AT&T CABLES
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #101 & #105, JOB EZLD902.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 49.8'± RT OF R/W & CONST. CL STA 189+38.0±, MILAN ROAD



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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **107**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 10, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING #5316, MILAN ROAD**
Recorded Size/Material/Type **6" COATED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

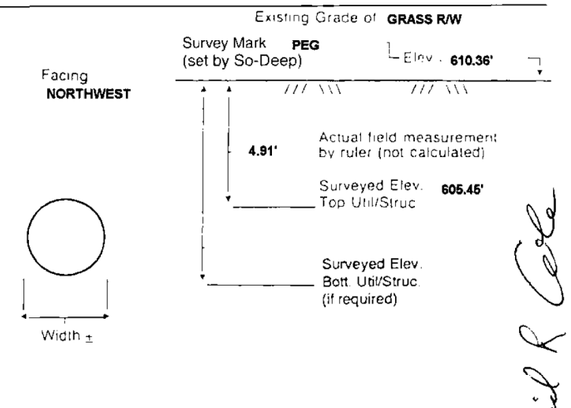
Color of ribbon installed **YELLOW**

Soil Type **MOIST BROWN**

Truck Location **ASPHALT LOT**

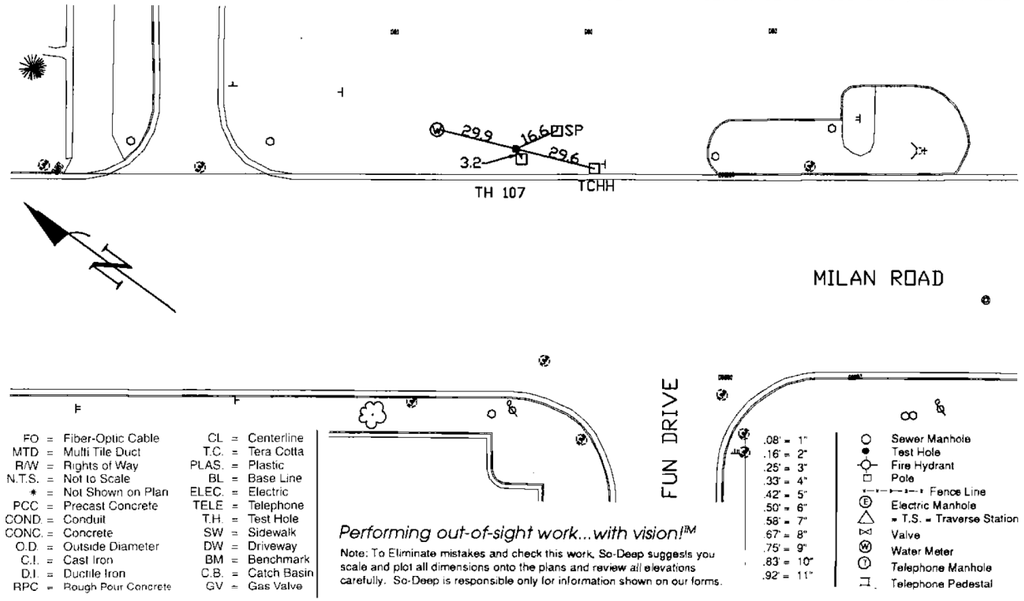
T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #102 & #108, JOB EZLD902.

TH DUG 49.3'± LT OF R/W & CONST. CL STA 188+37.5±, MILAN ROAD



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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #106 & #107

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **108**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 10, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING#5316, MILAN ROAD**
Recorded Size/Material/Type **16" DUCTILE IRON WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **PEG**

17" DUCTILE IRON WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

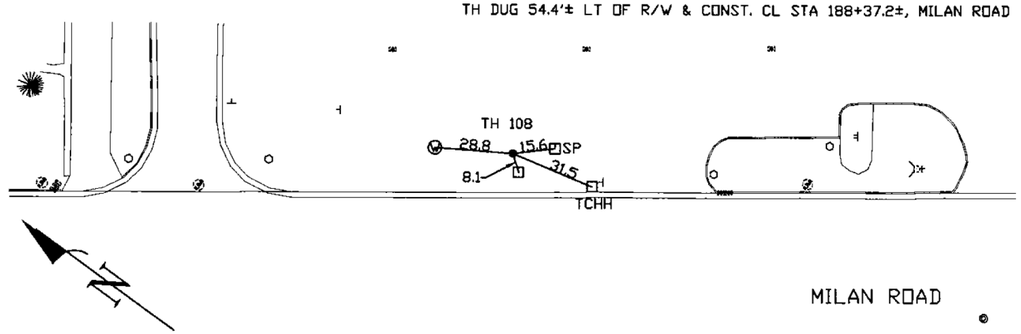
Facing **NORTHWEST**

Width ±

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **610.20'**
5.19' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **605.03'**
Surveyed Elev. Bott. Util/Struc. (if required)

Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #102 & #107, JOB EZLD902.

TH DUG 54.4'± LT OF R/W & CONST. CL STA 188+37.2±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33" = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42" = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50" = 6"	Electric Manhole
COND = Conduit	T.H. = Test Hole	.58" = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67" = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75" = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83" = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **109**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **APRIL 11, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT BUILDING#5316, MILAN ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AND TYPE AT&T LINES**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN**
Truck Location **ASPHALT LOT**
T.H. tied to **PEG**

(2) 4 3/4" PLASTIC AT&T CONDUITS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **NORTHWEST**

SEE DETAIL A

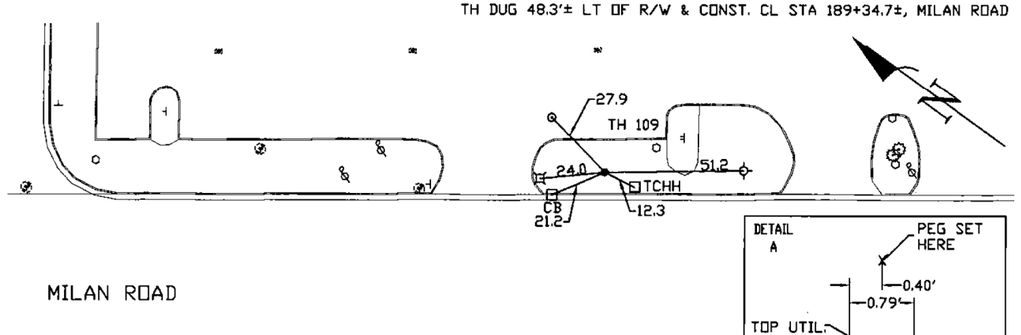
Width ± **0.79'**

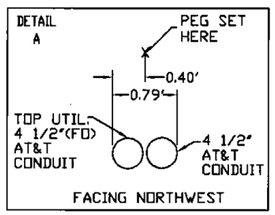
Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **610.35'**
3.75' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc **606.61'**
Surveyed Elev. Bott. Util/Struc. (if required)

Remarks: * ONLY ONE OF THE TWO AT&T CONDUITS CONTAIN FIBER OPTICS AT THIS LOCATION. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #104, JOB EZLD902.

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM

TH DUG 48.3'± LT OF R/W & CONST. CL STA 189+34.7±, MILAN ROAD





FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33" = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42" = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50" = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58" = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67" = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75" = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83" = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #108 & #109

ERI-250-0.00

I:\5033\010\88407\roadway\sheets\Utility-SO-Deep\88407UP045.dgn 10/17/2014 3:43:56 PM

SO-DEEP US. P.C.
The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **112**
Plan Scale **1" = 20'**
Sheet # **2**
Proposed **CATCH BASIN**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **280'± W. OF MILAN ROAD ON BOGART ROAD**
Recorded Size/Material/Type **UNKNOWN SIZE AT&T CABLE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILA**

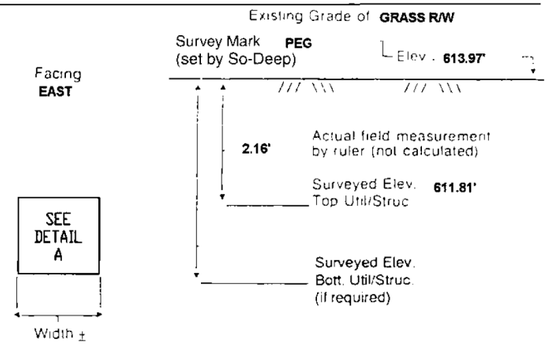
Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

1 1/2" AT&T CABLE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Facing **EAST**

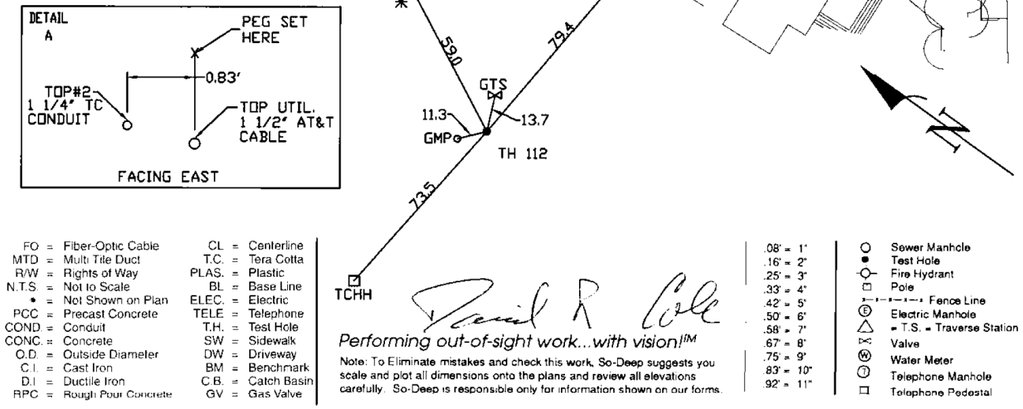


TOP#2
ELEV. 612.00
ACTUAL 1.97

Remarks: * CREW ALSO FOUND A 1 1/4" STEEL TRAFFIC CONTROL CONDUIT RUNNING ABOVE AND PARALLEL TO THE AT&T CABLE. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #113, JOB EZLD902.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 26.4'± RT OF R/W & CONST. CL STA 368+12.3±, BOGART ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete
CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US. P.C.
The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **113**
Plan Scale **1" = 20'**
Sheet # **2**
Proposed **12" STORM X-ING**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **280'± W. OF MILAN ROAD ON BOGART ROAD**
Recorded Size/Material/Type **4" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILA**

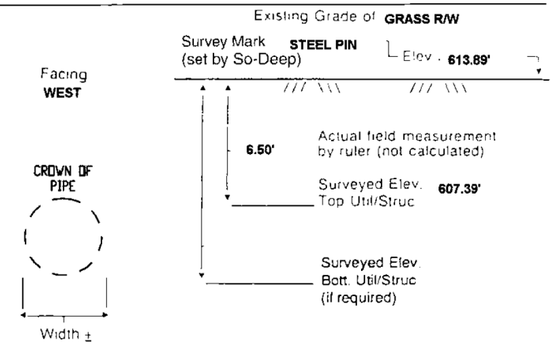
Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **MOIST BROWN**
Truck Location **GRASS R/W**
T.H. tied to **STEEL PIN**

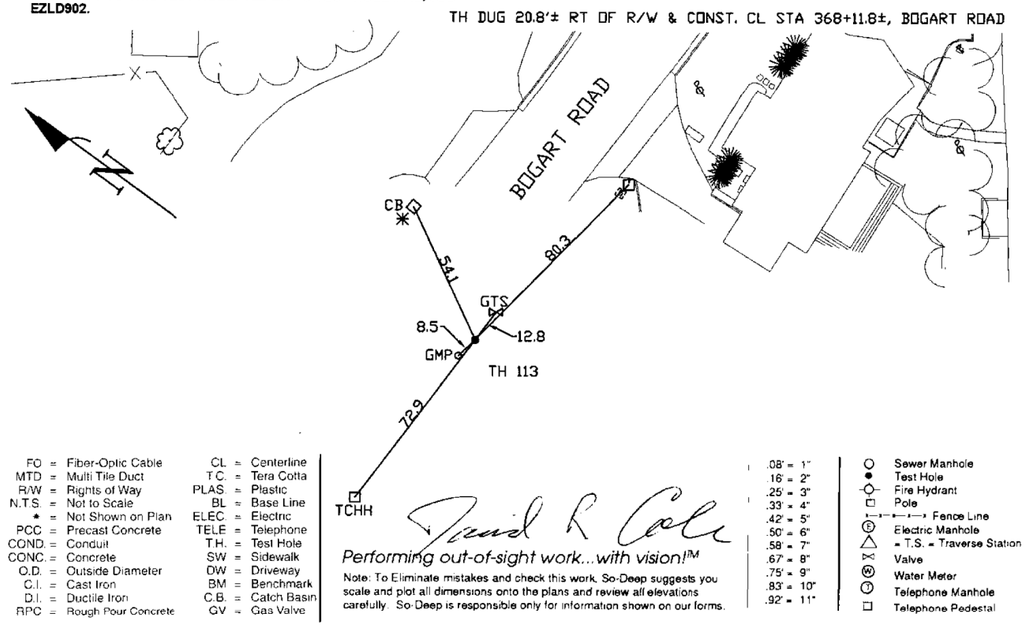
4" (I.D.) WRAPPED STEEL GAS LINE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)

Facing **WEST**



Remarks: * CREW WAS UNABLE TO OBTAIN AN ACCURATE O.D, MEASURMENT ON THE 4" GAS LINE DUE TO COPIOUS WATER AND UNSTABLE GROUND CONDITIONS IN THE TEST HOLE. UTILITY RECORDS RESEARCH, TOPSIDE SURVEY AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #112, JOB EZLD902.

TH DUG 20.8'± RT OF R/W & CONST. CL STA 368+11.8±, BOGART ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete
CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #112 & #113

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **114**
Plan Scale **1" = 20'**
Sheet # **1**
Proposed Date **BRIDGE**
APRIL 9, 2013

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT HOUSE #1416, MILAN ROAD**
Recorded Size/Material/Type **(4) MTD UNK. TYPE AT&T (FO) DUCT**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **ASPHALT PAVE IN GOOD CONDITION**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **14" ASPHALT**

Color of ribbon installed **ORANGE**

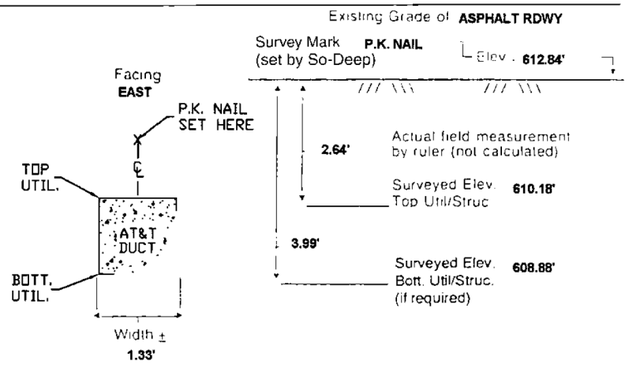
Soil Type **ROCKY BROWN**

Truck Location **ASPHALT RDWY**

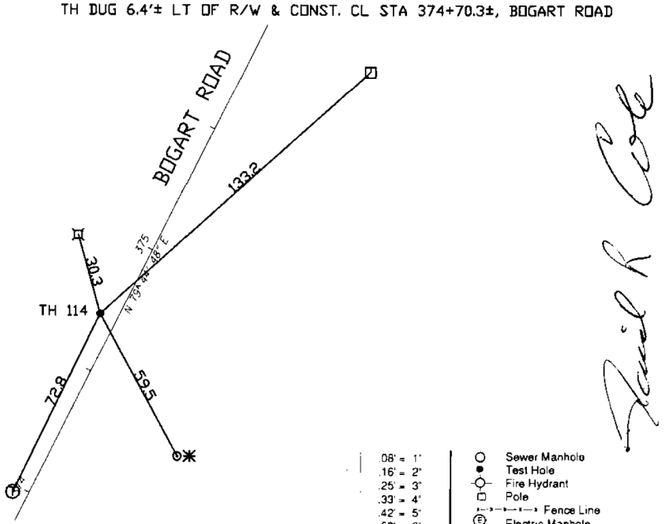
T.H. tied to **P.K. NAIL**

1.30' H. X 1.33' W.R.P.C. AT&T (FO) DUCT
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Remarks: NONE



TH DUG 6.4'± LT OF R/W & CONST. CL STA 374+70.3±, BOGART ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33" = 4"	Pole
◆ = Not Shown on Plan	ELEC. = Electric	.42" = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50" = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58" = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67" = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75" = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83" = 10"	*Telephone* Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **116**
Plan Scale **1" = 20'**
Sheet # **1**
Proposed Date **BRIDGE**
APRIL 9, 2013

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT HOUSE #1416, MILAN ROAD**
Recorded Size/Material/Type **4" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

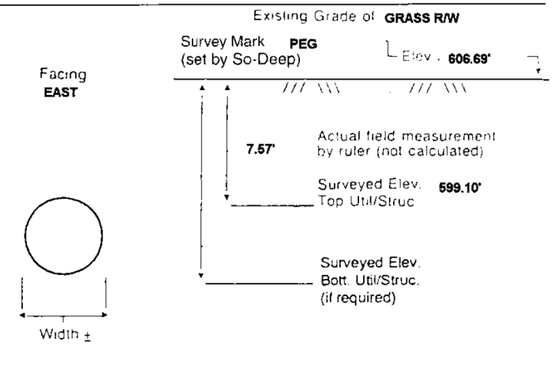
Soil Type **ROCKY BROWN**

Truck Location **ASPHALT RDWY**

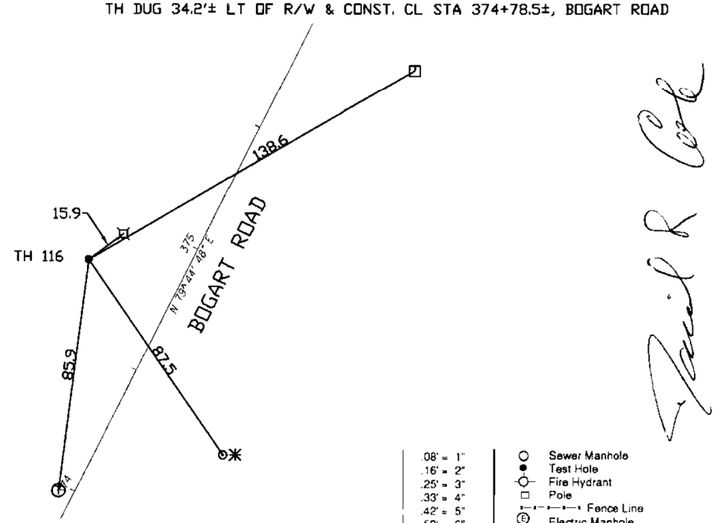
T.H. tied to **PEG**

4 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE



TH DUG 34.2'± LT OF R/W & CONST. CL STA 374+78.5±, BOGART ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08" = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16" = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25" = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33" = 4"	Pole
◆ = Not Shown on Plan	ELEC. = Electric	.42" = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50" = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58" = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67" = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75" = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83" = 10"	*Telephone* Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92" = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #114 & #116

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **117**
Plan Scale **1" = 20'**
Sheet # **1**
Proposed **BRIDGE**
Date **APRIL 9, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **AT HOUSE #1416, MILAN ROAD**
Recorded Size/Material/Type **12" UNKNOWN TYPE WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / M. NELSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'**
is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

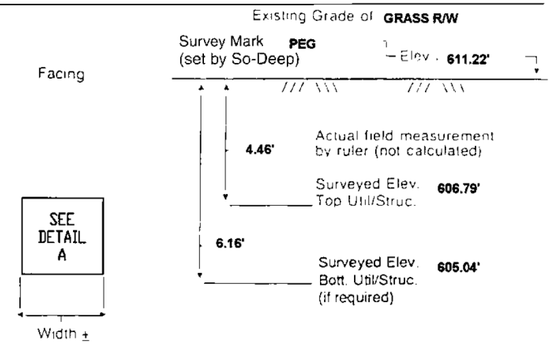
B.M. 2 Elev. = **616.18'**
is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.04'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

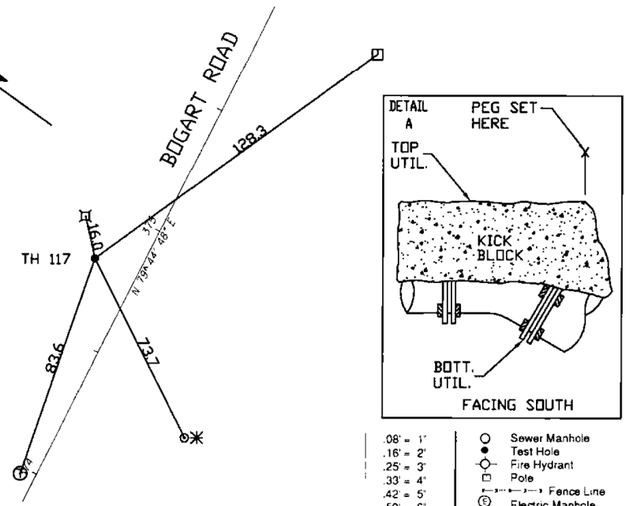
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **ROCKY BROWN**
Truck Location **ASPHALT RDWY**
T.H. tied to **PEG**

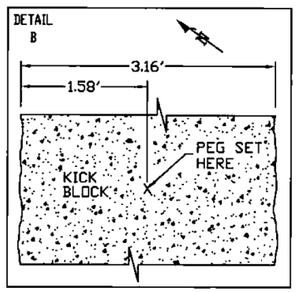
RPC THRUST BLOCK OVER 12" (I.D.) METALLIC WATER *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
OTHER, (SEE REMARKS)



Remarks: * **CREW FOUND THE WATER LINE MAKING A NOTICEABLE VERTICAL GRADE CHANGE DOWNWARD TOWARD THE WEST AT THIS LOCATION.**

TH DUG 16.8'± LT OF R/W & CONST. CL STA 374+80.3±, BOGART ROAD





FO =	Fiber-Optic Cable	CL =	Centerline
MTD =	Multi Tile Duct	T.C. =	Tera Cotta
R/W =	Rights of Way	PLAS. =	Plastic
N.T.S. =	Not to Scale	BL =	Base Line
* =	Not Shown on Plan	ELEC. =	Electric
PCC =	Precast Concrete	TELE =	Telephone
COND. =	Conduit	T.H. =	Test Hole
CONC. =	Concrete	SW =	Sidewalk
O.D. =	Outside Diameter	DW =	Driveway
C.I. =	Cast Iron	BM =	Benchmark
D.I. =	Ductile Iron	C.B. =	Catch Basin
RPC =	Rough Pour Concrete	GV =	Gas Valve

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **118**
Plan Scale **1" = 20'**
Sheet # **15**
Proposed **SIGNAL POLE**
Date **APRIL 3, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE CORNER OF MILAN ROAD & MEIJER NORTH DR.**
Recorded Size/Material/Type **UNK. SIZE & TYPE FRONTIER LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'**
is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN RO**

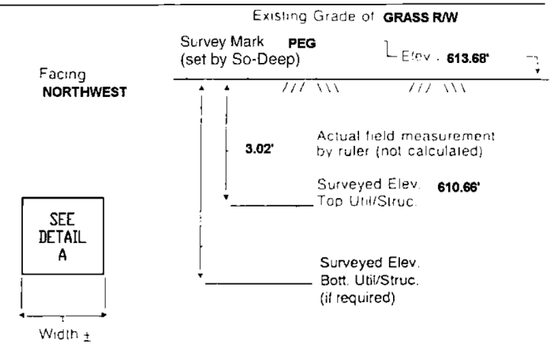
B.M. 2 Elev. = **614.07'**
is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON. BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

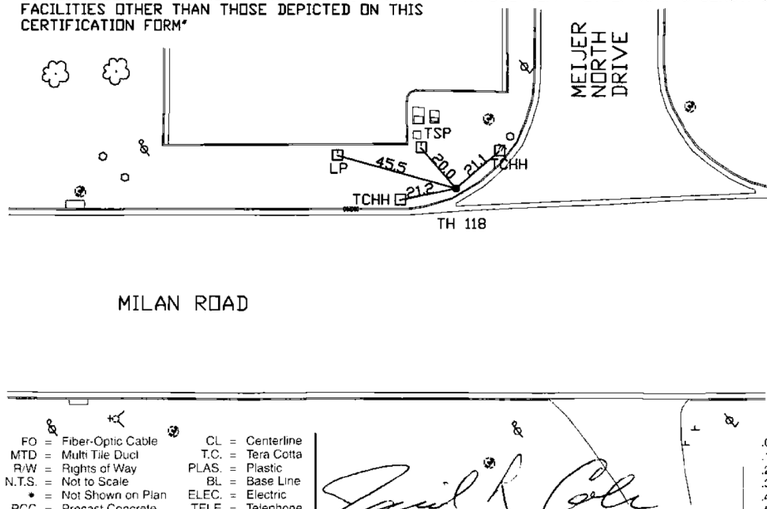
3 1/2" PLASTIC FRONTIER CONDUIT *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

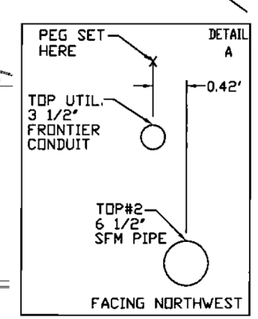


Remarks: * **CREW ALSO FOUND A 6 1/2" PLASTIC SANITARY FORCE MAIN (ABANDONED) PIPE RUNNING BELOW & PARALLEL TO THE 3 1/2" FRONTIER CONDUIT. NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #41 & #118, JOB EZLD902.**

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM

TH DUG 42.4'± LT OF R/W & CONST. CL STA 155+11.8±, MILAN ROAD





FO =	Fiber-Optic Cable	CL =	Centerline
MTD =	Multi Tile Duct	T.C. =	Tera Cotta
R/W =	Rights of Way	PLAS. =	Plastic
N.T.S. =	Not to Scale	BL =	Base Line
* =	Not Shown on Plan	ELEC. =	Electric
PCC =	Precast Concrete	TELE =	Telephone
COND. =	Conduit	T.H. =	Test Hole
CONC. =	Concrete	SW =	Sidewalk
O.D. =	Outside Diameter	DW =	Driveway
C.I. =	Cast Iron	BM =	Benchmark
D.I. =	Ductile Iron	C.B. =	Catch Basin
RPC =	Rough Pour Concrete	GV =	Gas Valve

.08' = 1"
.16' = 2"
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.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #117 & #118

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLD902**
Test Hole # **119**
Plan Scale **1" = 20'**
Sheet # **13**
Proposed **CATCH BASIN**
Date **APRIL 4, 2013**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **ENTRANCE TO OUTBACK PLAZA, MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE FRONTIER CABLE**
Foreman/Truck#/Form By **T. BARRETT / 219 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **610.11'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 45'± LT OF R/W & CONST. CL STA 171+64±, MILAN ROAD**

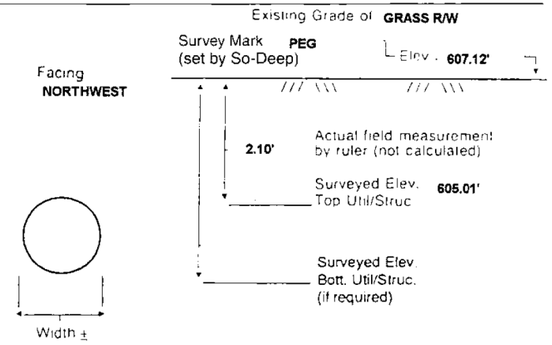
B.M. 2 Elev. = **613.73'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 176+14±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

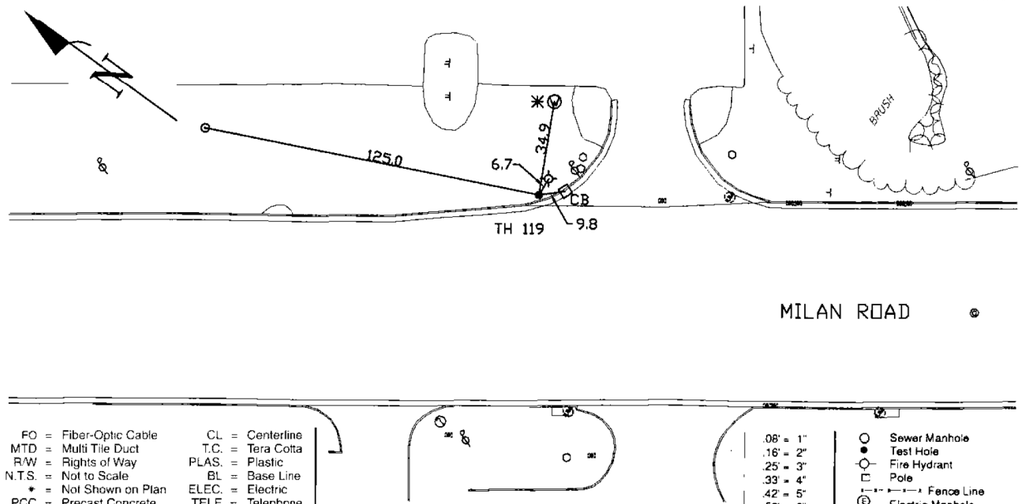
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **MOIST BROWN W/ROCK**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

(1) 1 1/2" FRONTIER CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NOTE: ADDITIONAL UTILITIES MAY LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #47 & #49, JOB EZLD902.

TH DUG 42.8'± LT OF R/W & CONST. CL STA 171+63.8±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **120**
Plan Scale **1" = 20'**
Sheet # **2A**
Proposed **SIGNAL POLE**
Date **MARCH 15, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SW SIDE MILAN ROAD, NW OF BOGART ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.04'** is **GIVEN**
Description: **(CP20) TOP OF 5/8" IRON PIN & CAP FOUND, 42.06' LT OF R/W & CONST. CL STA 226+92.56, MILAN ROAD**

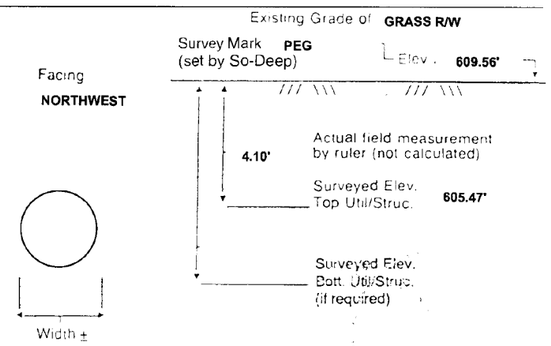
B.M. 2 Elev. = **616.18'** is **GIVEN**
Description: **TOP OF NW BOLT ON STRAIN POLE FOUND, 42'± LT OF R/W & CONST. CL STA 224+54±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

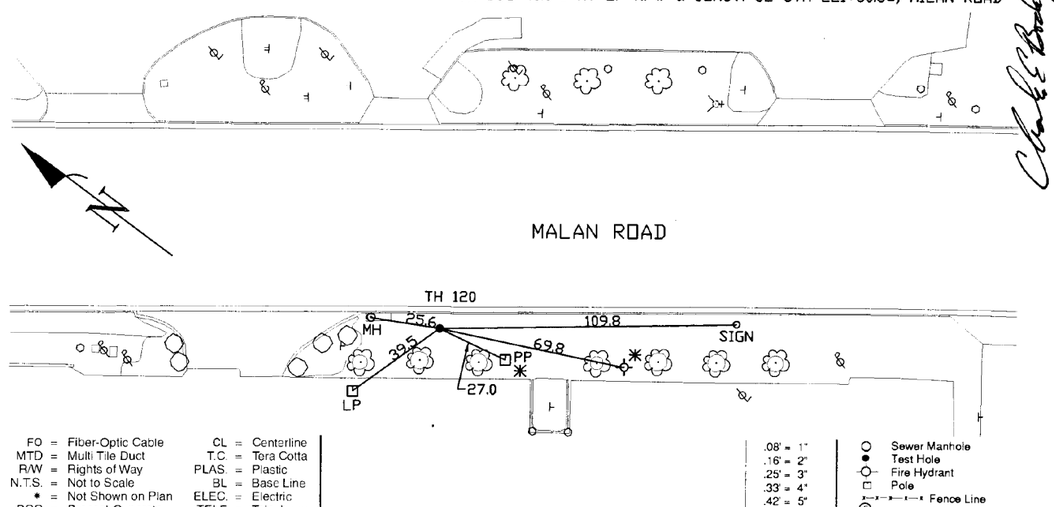
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **WET ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

2" COPPER WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL



Remarks: NONE

TH DUG 40.9'± RT OF R/W & CONST. CL STA 221+50.3±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #119 & #120

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # EZLE326
Test Hole # 121
Plan Scale 1" = 20'
Sheet # 15
Proposed Date SIGNAL POLE MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST S. OF GREAT WOLF LODGE**
Recorded Size/Material/Type **6" SANITARY FORCE MAIN (ABANDONED)**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

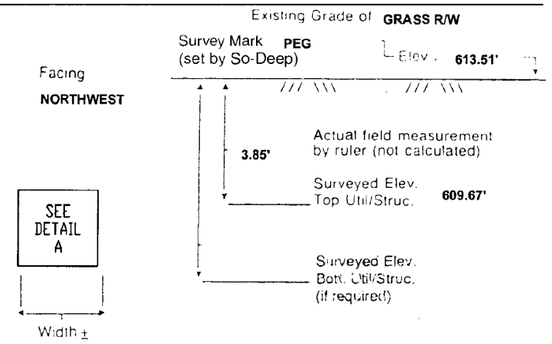
Soil Type **STICKY CLAY**

Truck Location **ASPHALT ROADWAY**

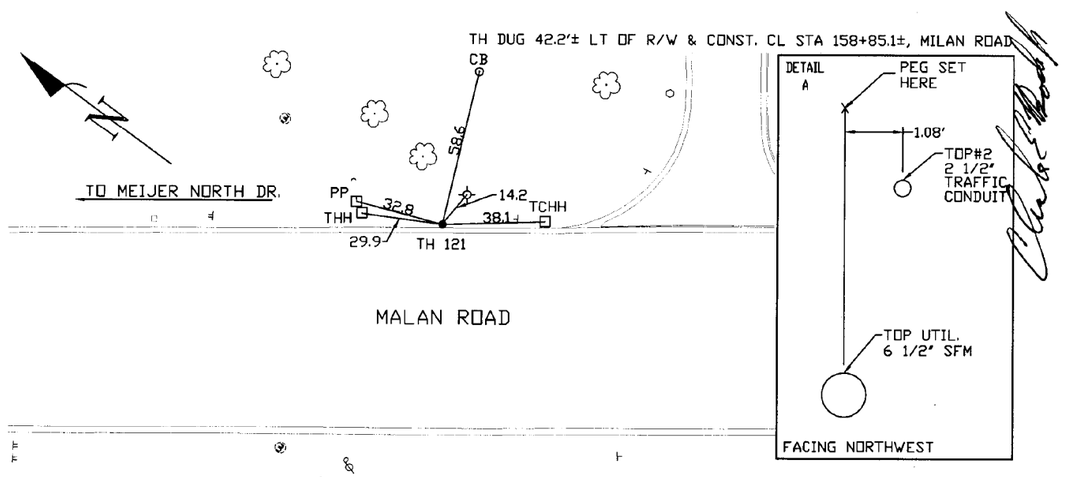
T.H. tied to **PEG**

6 1/2" PLASTIC SANITARY FORCE MAIN *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: *ALSO FND 2 1/2" STEEL T.C CONDUIT IN THE TEST HOLE. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #140, JOB EZLE326.



TOP#2
ELEV. 612.08
ACTUAL 1.43



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
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Sewer Manhole
Test Hole
Fire Hydrant
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Electric Manhole
= T.S. = Traverse Station
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Water Meter
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Telephone Pedestal

Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # EZLE326
Test Hole # 122
Plan Scale 1" = 20'
Sheet # 5
Proposed Date SIGNAL POLE MARCH 10, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW OF S.R 2 OVERPASS**
Recorded Size/Material/Type **16" D.I WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'** is **CALCULATED**
Description: **CHIS "X" N. MOST BONNET BOLT OF F.H. SET, 75'± RT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

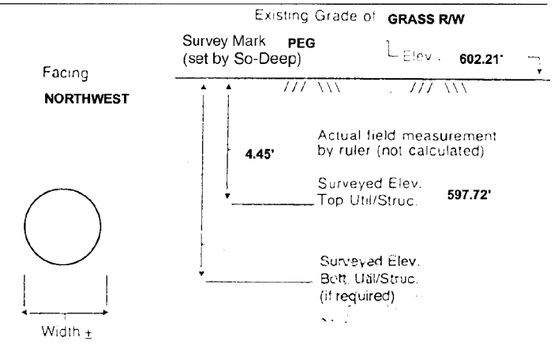
Soil Type **WET CLAY**

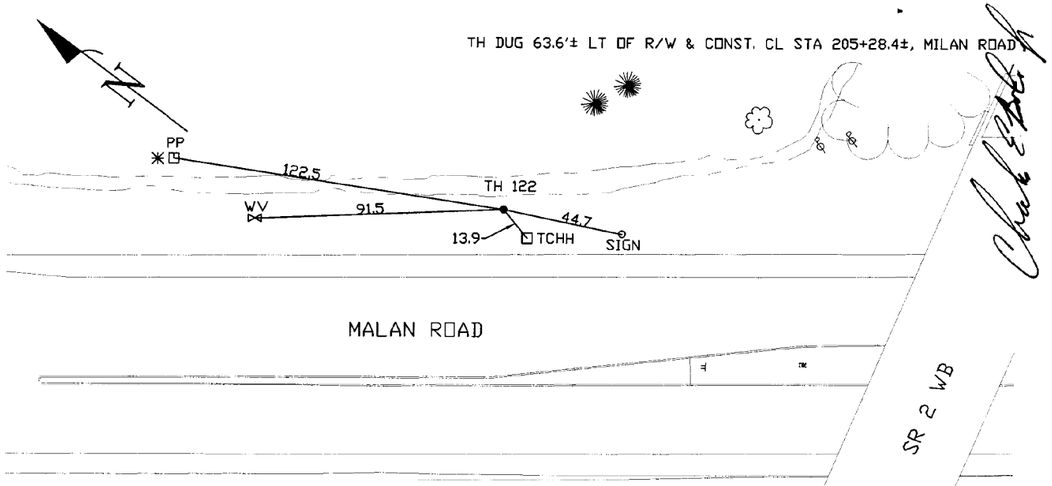
Truck Location **.ASPHALT SHLDR.**

T.H. tied to **PEG**

17" D.I. WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #121 & #122

SO-DEEP
ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	123
Plan Scale	1" = 20'
Sheet #	8
Proposed	SIGNAL POLE
Date	MARCH 17, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SW SIDE MILAN ROAD FRONT OF #5511**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **P. REYNOLDS / 219 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'** is **CALCULATED**
Description: **CHIS "X" N. MOST BONNET BOLT OF F.H. SET, 75'± RT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **ROCKY WET CLAY**

Truck Location **GRASS R/W**

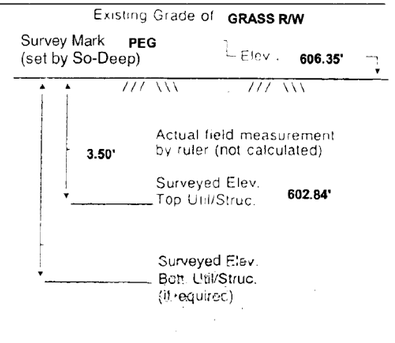
T.H. tied to **PEG**

2 1/4" AT&T CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:

FULL

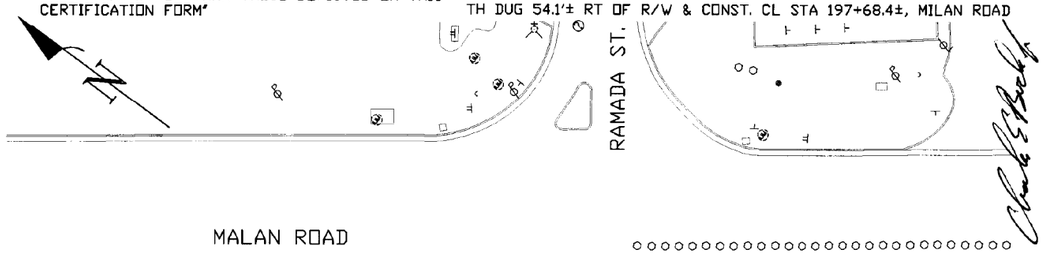
Remarks: NONE

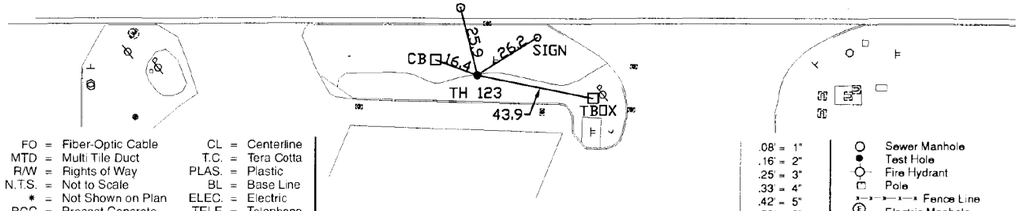
Facing **NORTHWEST**



'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'

TH DUG 54.1'± RT OF R/W & CONST. CL STA 197+68.4±, MILAN ROAD





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	124
Plan Scale	1" = 20'
Sheet #	8
Proposed	SIGNAL POLE
Date	MARCH 13, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW RAMADA ST.**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'** is **CALCULATED**
Description: **CHIS "X" N. MOST BONNET BOLT OF F.H. SET, 75'± RT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **DRY CLAY**

Truck Location **ASPHALT PARKING LOT**

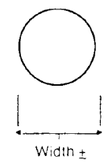
T.H. tied to **PEG**

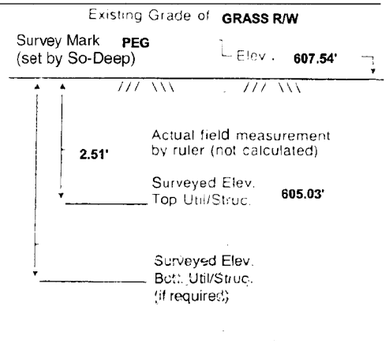
2 1/2" AT&T CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:

FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #145, JOB EZLE326.

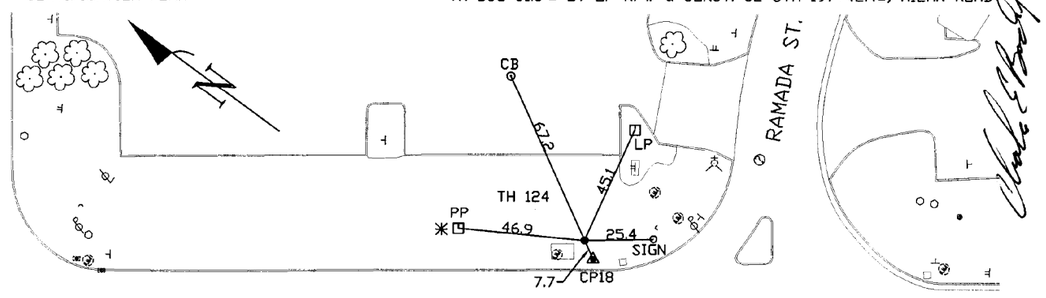
Facing **SOUTHEAST**





'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'

TH DUG 51.3'± LT OF R/W & CONST. CL STA 197+42.4±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #123 & #124

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **125**
Plan Scale **1" = 20'**
Sheet # **8**
Proposed **SIGNAL POLE**
Date **MARCH 17, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SW SIDE MILAN ROAD, NW OF PARK PLACE DR. S.**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **P. REYNOLDS / 219 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **WET CLAY**
Truck Location **GRASS R/W**
T.H. tied to **PEG**

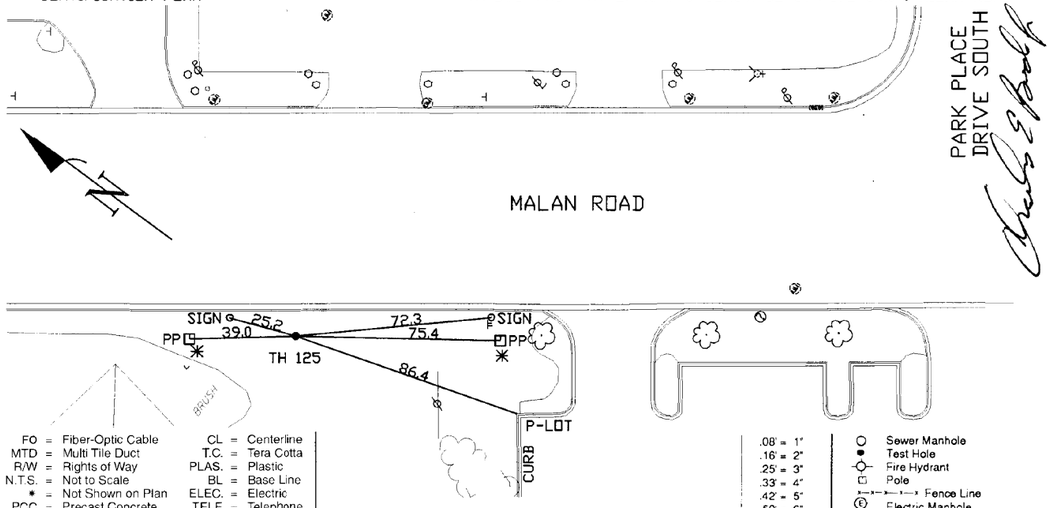
1 1/2" AT&T CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **610.19'**
Facing **NORTHWEST**
Actual field measurement by ruler (not calculated) **3.18'**
Surveyed Elev. Top Util/Struc. **607.01'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'

TH DUG 44.6'± RT OF R/W & CONST. CL STA 192+64.0±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **126**
Plan Scale **1" = 20'**
Sheet # **10**
Proposed **SIGNAL POLE**
Date **MARCH 11, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. SIDE MILAN ROAD AT #5410 (SUPER 8 HOTEL)**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **L. CARPENTER / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

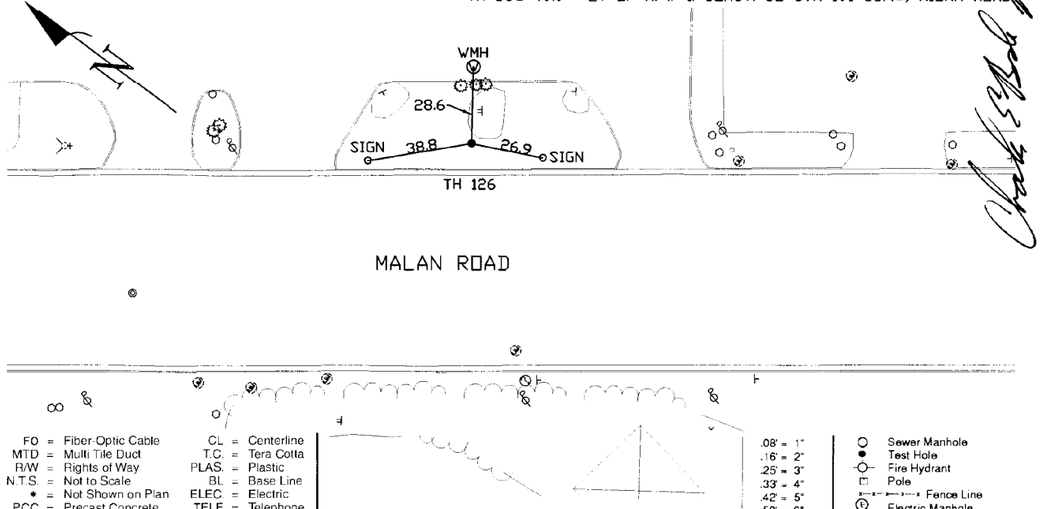
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #127, JOB EZLE326.

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **610.42'**
Facing **SOUTHEAST**
Actual field measurement by ruler (not calculated) **4.56'**
Surveyed Elev. Top Util/Struc. **605.86'**
Surveyed Elev. Bott. Util/Struc. (if required)
Width ±

TH DUG 49.9'± LT OF R/W & CONST. CL STA 191+35.4±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #125 & #126

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	127
Plan Scale	1" = 20'
Sheet #	10
Proposed	SIGNAL POLE
Date	MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. SIDE MILAN ROAD AT #5410 (SUPER 8 HOTEL)**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINES**
Foreman/Truck#/Form By **L. CARPENTER / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **611.34'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 53'± LT OF R/W & CONST. CL STA 194+34±, MILAN ROAD**

B.M. 2 Elev. = **612.87'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 189+86±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

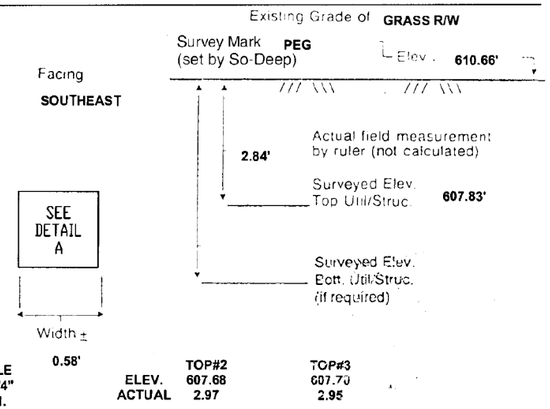
Soil Type **ROCKY CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

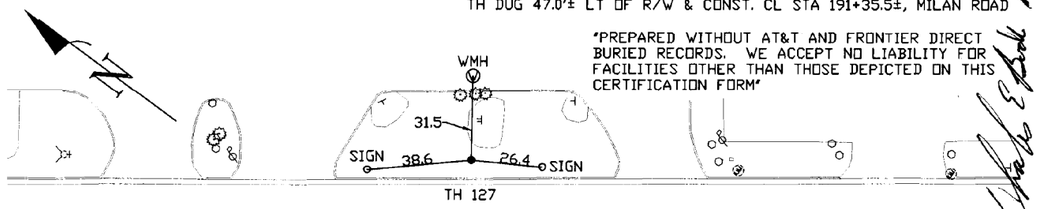


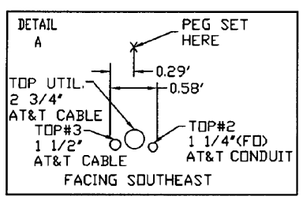
	TOP#2	TOP#3
ELEV.	607.68	607.70
ACTUAL	2.97	2.95

Remarks: * CREW FOUND (1) 1 1/2" AT&T CABLE, (1) 2 3/4" AT&T CABLE & (1) 1 1/4" PLASTIC AT&T (FO) CONDUIT AT THIS LOCATION. THE 1 1/4" PLASTIC AT&T CONDUIT CONTAINS FIBER OPTICS AT THIS LOCATION. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #126, JOB EZLE326.

TH DUG 47.0'± LT OF R/W & CONST. CL STA 191+35.5±, MILAN ROAD

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"





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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	128
Plan Scale	1" = 20'
Sheet #	10
Proposed	SIGNAL POLE
Date	MARCH 15, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SW SIDE MILAN ROAD, NW OF FUN DR.**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

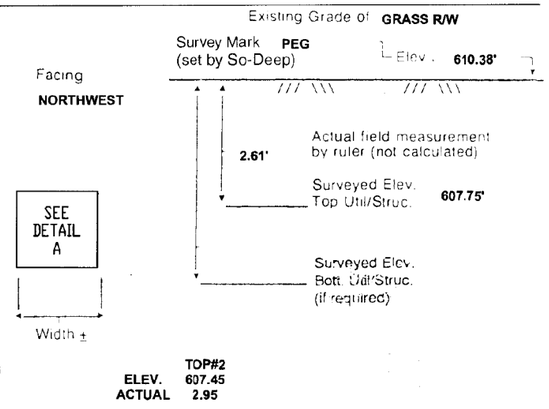
Soil Type **WET ROCKY CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

1 1/2" AT&T CABLE *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

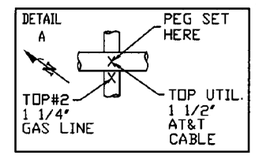


	TOP#2
ELEV.	607.45
ACTUAL	2.95

Remarks: * CREW ALSO FOUND A 1 1/4" PLASTIC GAS LINE RUNNING BELOW AND PERPENDICULAR TO THE AT&T CABLE.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 43.5'± RT OF R/W & CONST. CL STA 186+11.5±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #127 & #128

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	129
Plan Scale	1" = 20'
Sheet #	11
Proposed	SIGNAL POLE
Date	MARCH 10, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **JUST S. OF #5218 MILAN ROAD**
Recorded Size/Material/Type **UNK. SIZE AT&T CABLES & UNK. SIZE AT&T (FO) CABLE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **HARD CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **611.09'**

Facing **NORTHWEST**

SEE DETAIL A

Width ±

2.99' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc. **608.11'**

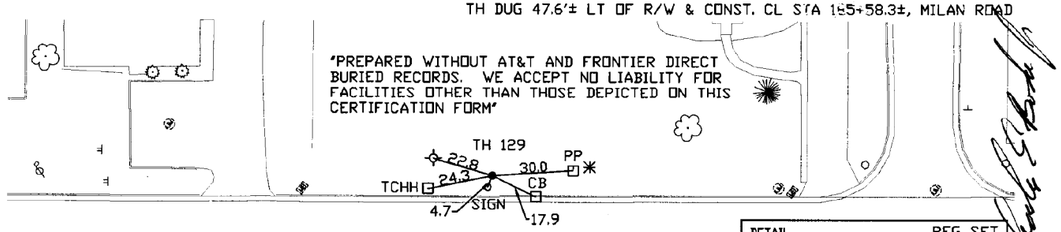
3.49'

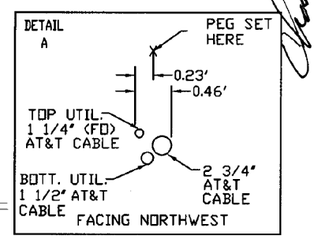
Surveyed Elev. Bott. Util/Struc. (if required) **607.59'**

Remarks: * CREW FOUND (1) 1 1/4" AT&T (FO) CABLE, (1) 1 1/2" AT&T CABLE & (1) 2 3/4" AT&T CABLE AT THIS LOCATION. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #141, JOB EZLE326.

TH DUG 47.6'± LT OF R/W & CONST. CL STA 185+58.3±, MILAN ROAD

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	130
Plan Scale	1" = 20'
Sheet #	13
Proposed	SIGNAL POLE
Date	MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, SE OF MEIJER SOUTH DR.**
Recorded Size/Material/Type **16" D.I. WATER LINE**
Foreman/Truck#/Form By **L. CARPENTER / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **615.76'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 46'± LT OF R/W & CONST. CL STA 163+54±, MILAN ROAD**

B.M. 2 Elev. = **616.16'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 47'± LT OF R/W & CONST. CL STA 167+06±, MILAN ROAD**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE & ORANGE**

Soil Type **CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

17" D.I. WATER LINE *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:
FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **612.55'**

Facing **SOUTHEAST**

SEE DETAIL A

Width ±

4.53' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc. **608.01'**

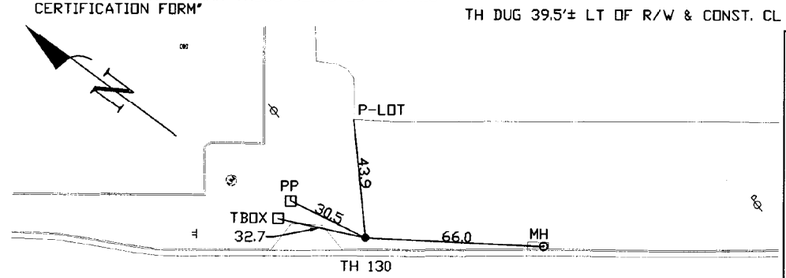
Surveyed Elev. Bott. Util/Struc. (if required)

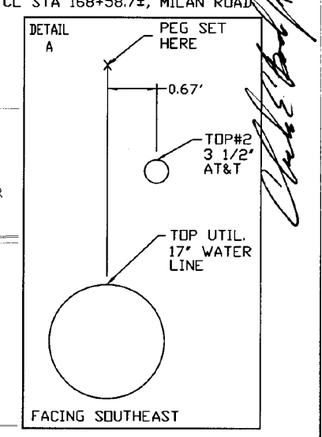
Remarks: * CREW ALSO FOUND (1) 3 1/2" PLASTIC AT&T CONDUIT RUNNING ABOVE AND PARALLEL TO THE WATER LINE.

TOP#2
ELEV. 610.03
ACTUAL 2.52

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM

TH DUG 39.5'± LT OF R/W & CONST. CL STA 168+58.7±, MILAN ROAD





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #129 & #130

SO-DEEP

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	131
Plan Scale	1" = 20'
Sheet #	15
Proposed	SIGNAL POLE
Date	MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST S. OF GREAT WOLF LODGE**
Recorded Size/Material/Type **16" D.I. WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

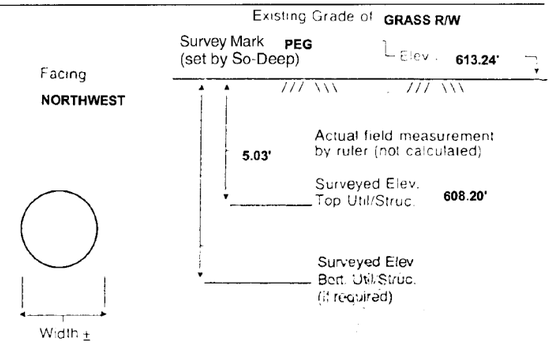
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

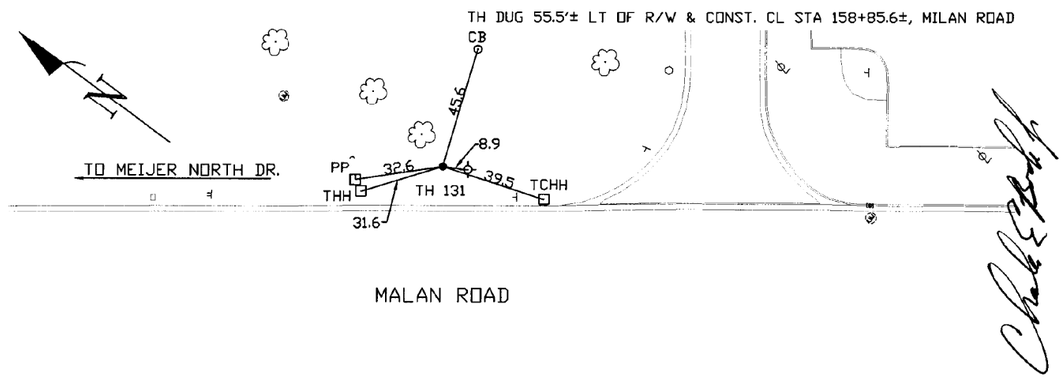
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **STICKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

17" D.I. WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	132
Plan Scale	1" = 20'
Sheet #	15A
Proposed	SIGNAL POLE
Date	MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW OF MEIJER NORTH DR.**
Recorded Size/Material/Type **16" D.I. WATER LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **617.13'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, W. SIDE MILAN ROAD AND GREAT WOLF LODGE**

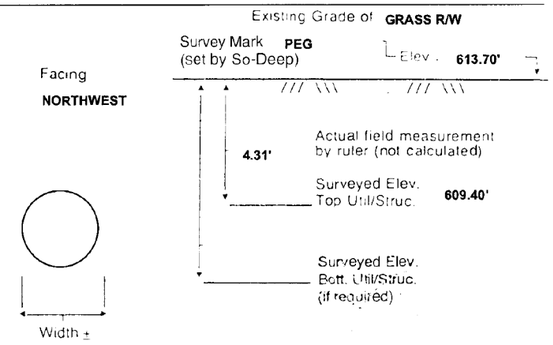
Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

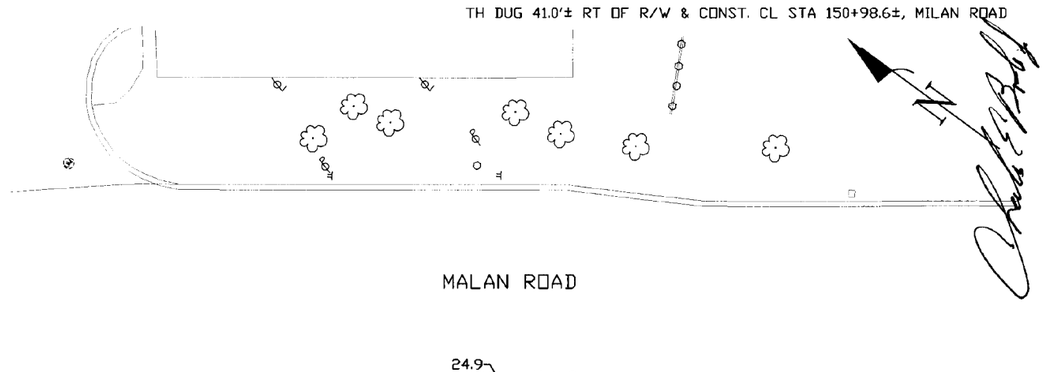
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **STICKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

17" D.I. WATER LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #131 & #132

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	133
Plan Scale	1" = 20'
Sheet #	16
Proposed	SIGNAL POLE
Date	MARCH 14, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, SE OF HULL ROAD**
Recorded Size/Material/Type **6" UNK. TYPE GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.58'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, W. SIDE OF MILAN ROAD AT QUARRY ENTRANCE**

B.M. 2 Elev. = **616.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

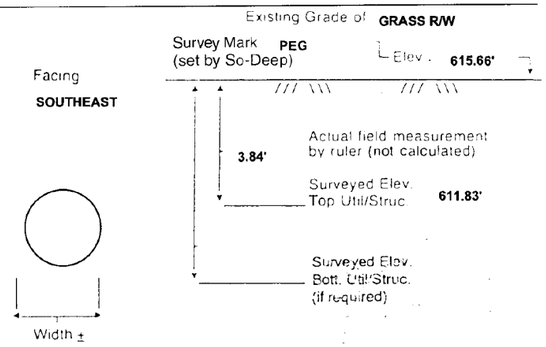
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

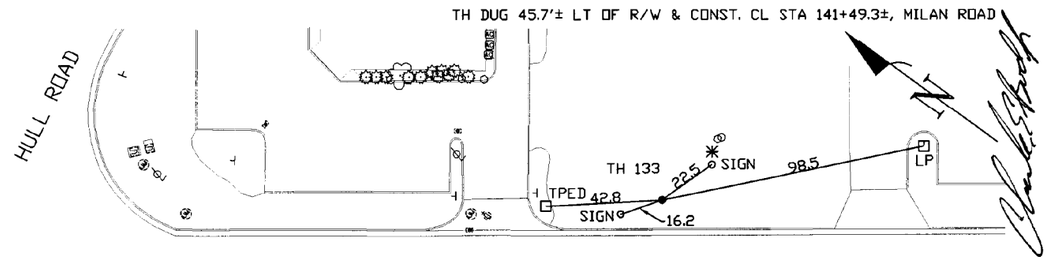
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #152, JOB EZLE326.





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MTD = Multi Tile Duct
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COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
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ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
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BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

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.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	134
Plan Scale	1" = 20'
Sheet #	18
Proposed	SIGNAL POLE
Date	MARCH 14, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SW SIDE MILAN ROAD. NW OF HULL ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **616.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

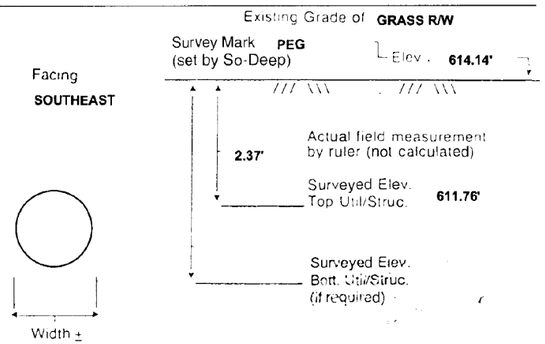
Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

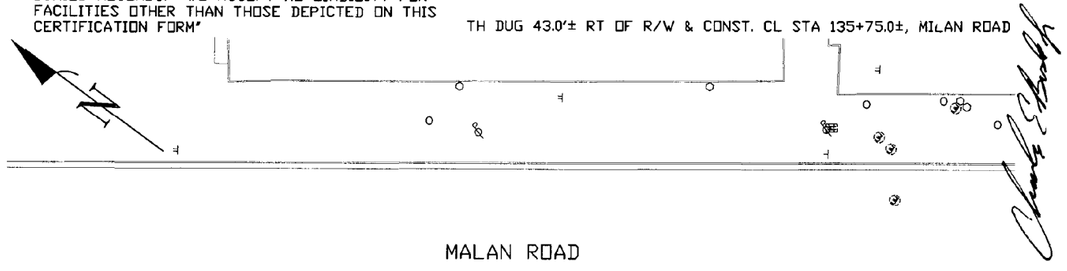
Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

1" AT&T CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #135, JOB EZLE326.



'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #133 & #134

ERI-250-0.00

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	135
Plan Scale	1" = 20'
Sheet #	18
Proposed	SIGNAL POLE
Date	MARCH 14, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **SW SIDE MILAN ROAD, NW OF HULL ROAD**
Recorded Size/Material/Type **2" PLASTIC GAS LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN** Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **616.29'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

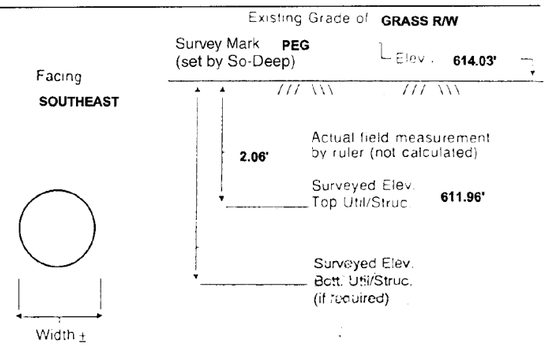
Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

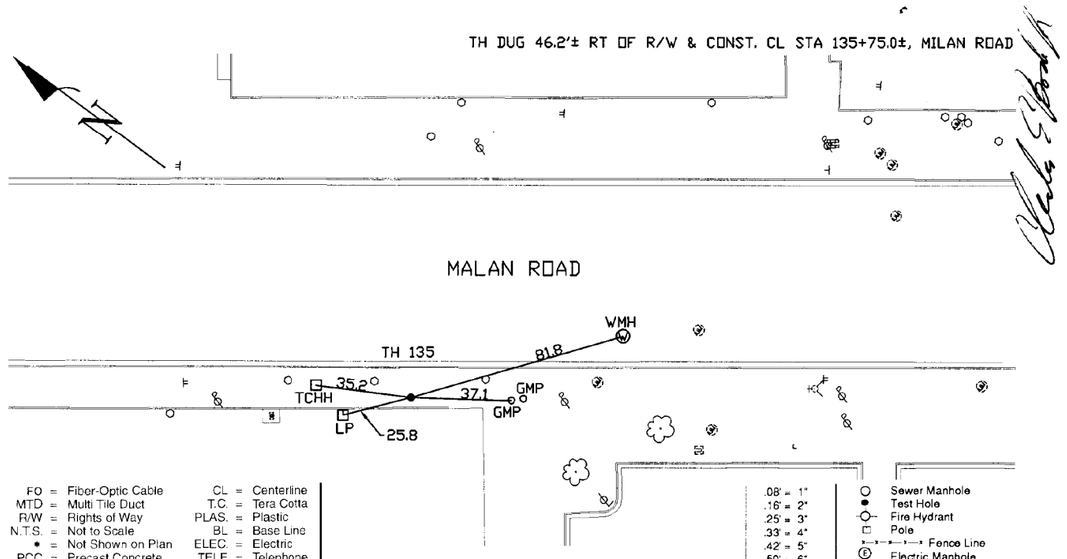
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

2 1/2" PLASTIC GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #134, JOB EZLE326.





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
• = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

.08' = 1"
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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	136
Plan Scale	1" = 20'
Sheet #	20
Proposed	SIGNAL POLE
Date	MARCH 15, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD, SE OF SANDUSKY DR. NORTH**
Recorded Size/Material/Type **2" UNK. TYPE GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN** Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **611.07'** is **GIVEN** Description: **(CP13) IRON PIN & CAP FOUND, 42.35' RT OF R/W & CONST. CL STA 124+96.25, MILAN ROAD**

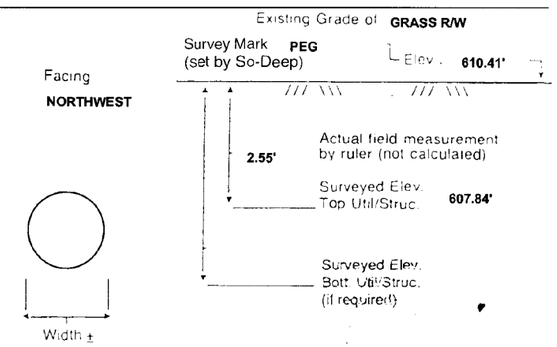
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

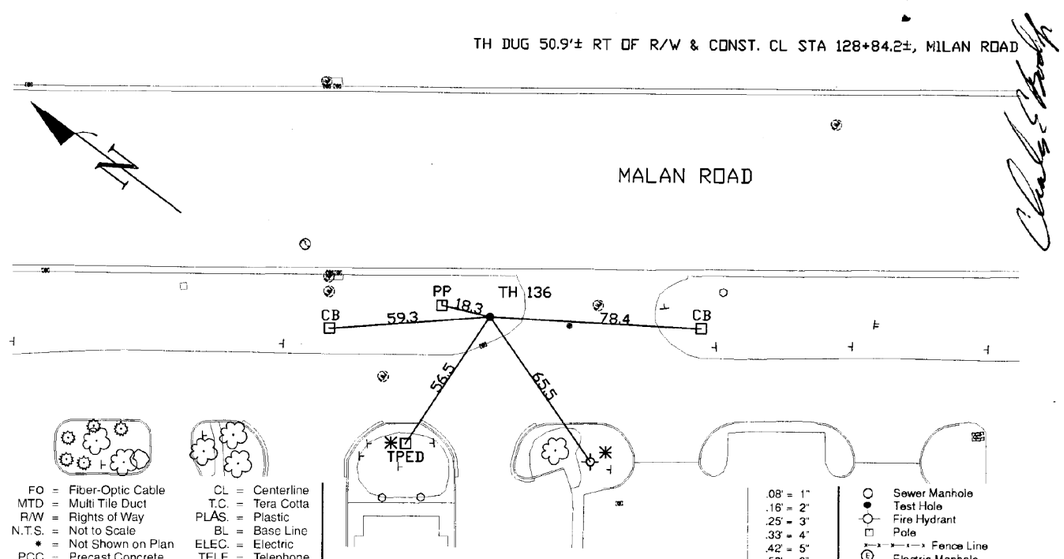
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

2 1/4" PLASTIC GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE





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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #135 & #136

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **137**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 13, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD IN FRONT OF BEST BUY**
Recorded Size/Material/Type **R.P.C. AT&T DUCT (FO)**
Foreman/Truck#/Form By **T. BARRETT / 219 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **611.07'** is **GIVEN**
Description: **(CP13) IRON PIN & CAP FOUND, 42.35' RT OF R/W & CONST. CL STA 124+96.25, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

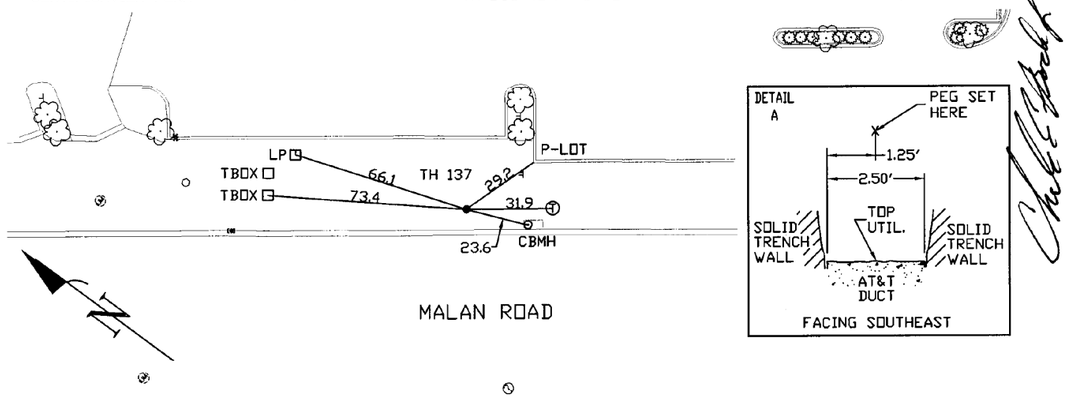
2.50' W. R.P.C. AT&T DUCT (FO) *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
N/A

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **610.73'**
Facing **SOUTHEAST**
SEE DETAIL A
Width ± **2.50'**
3.07' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **607.64'**
Surveyed Elev. Bott. Util/Struc. (if required)

Remarks: * CREW WAS UNABLE TO OBTAIN AN ACCURATE BOTTOM ELEVATION OF THE R.P.C. AT&T DUCT (FO) DUE TO SOLID TRENCH WALLS IN THE TEST HOLE EXCAVATION.

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM

TH DUG 42.4'± LT OF R/W & CONST. CL STA 128+00.7±, MILAN ROAD



FO = Fiber-Optic Cable
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TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **138**
Plan Scale **1" = 20'**
Sheet # **21**
Proposed **SIGNAL POLE**
Date **MARCH 13, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN RD IN FRONT OF BEST BUY**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T CABLE**
Foreman/Truck#/Form By **T. BARRETT / 219 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **611.07'** is **GIVEN**
Description: **(CP13) IRON PIN & CAP FOUND, 42.35' RT OF R/W & CONST. CL STA 124+96.25, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **PEG**

3/4" AT&T CABLE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

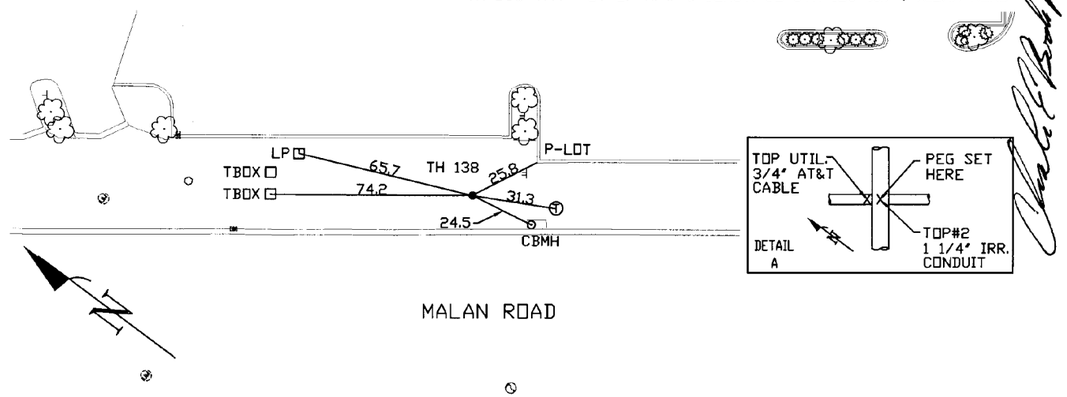
Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **610.66'**
Facing
SEE DETAIL A
Width ±
3.06' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **607.59'**
Surveyed Elev. Bott. Util/Struc. (if required)

TOP#2
ELEV. 609.73
ACTUAL 0.92

Remarks: * CREW ALSO FOUND A 1 1/4" IRRIGATION CONDUIT RUNNING ABOVE AND PARALLEL TO THE AT&T CABLE.

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM

TH DUG 47.4'± LT OF R/W & CONST. CL STA 128+01.7±, MILAN ROAD



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Sewer Manhole
Test Hole
Fire Hydrant
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Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #137 & #138

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # EZLE326
Test Hole # 139
Plan Scale 1" = 20'
Sheet # 22
Proposed SIGNAL POLE
Date MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **N. ENTR. TO #1822 MILAN ROAD**
Recorded Size/Material/Type **4" STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **CONC. SIDEWALK FAIR CONDITION**

B.M. 1 Elev. = **599.35'** is **GIVEN**
Description: **(CP06) 5/8" IRON PIN & CAP FOUND, 33.06' RT OF R/W & CONST. CL STA 19+45.53, SYCAMORE LINE**

B.M. 2 Elev. = **599.75'** is **GIVEN**
Description: **(CP07) 5/8" IRON PIN & CAP FOUND, 33.62' LT OF R/W & COSNT. CL STA 24+88.55, SYCAMORE LINE**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **2" CONC.**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT PARKING LOT**
T.H. tied to **CHIS "X"**

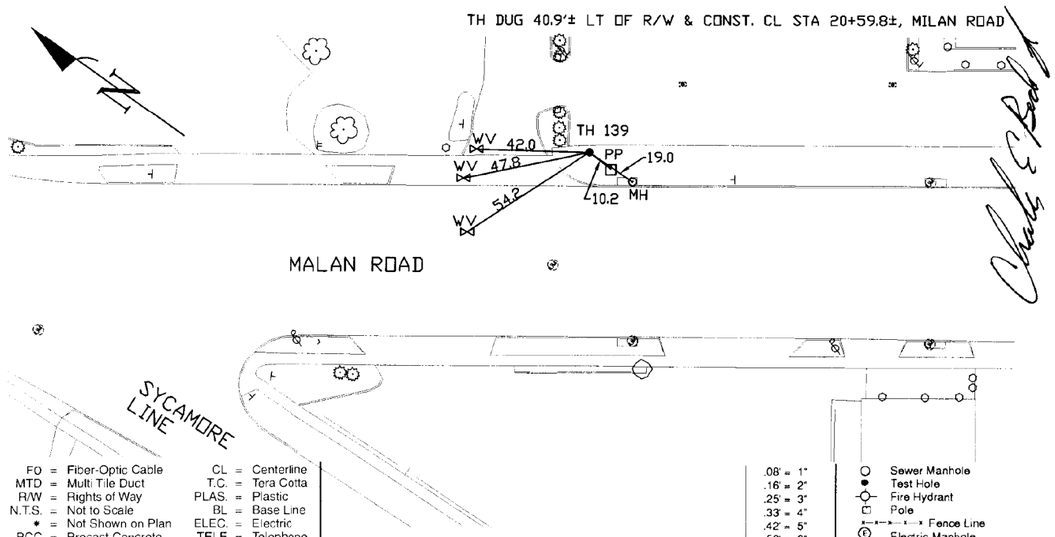
4 1/2" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NONE

Facing **NORTHWEST**

Width ±

Existing Grade of **CONC. SW**
Survey Mark **CHIS "X"** (set by So-Deep) Elev. **599.11'**
2.12' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **596.99'**
Surveyed Elev. Bott. Util/Struc. (if required)



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
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Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

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Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # EZLE326
Test Hole # 140
Plan Scale 1" = 20'
Sheet # 15
Proposed SIGNAL POLE
Date MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST SE OF GREAT WOLF LODGE**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINES**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN**
Description: **(ERI0250017) TOP OF 1" I.P. IN MON BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **STICKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: * CREW FOUND (2) 1 3/4" AT&T CABLES, (1) 1/4" AT&T CABLE, (1) 2 3/4" AT&T CABLE, (1) 1 1/2" PLASTIC AT&T (FO) CONDUIT & (1) UNK. SIZE AND TYPE AT&T CABLE. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #121 & 144, JOB EZLE326.

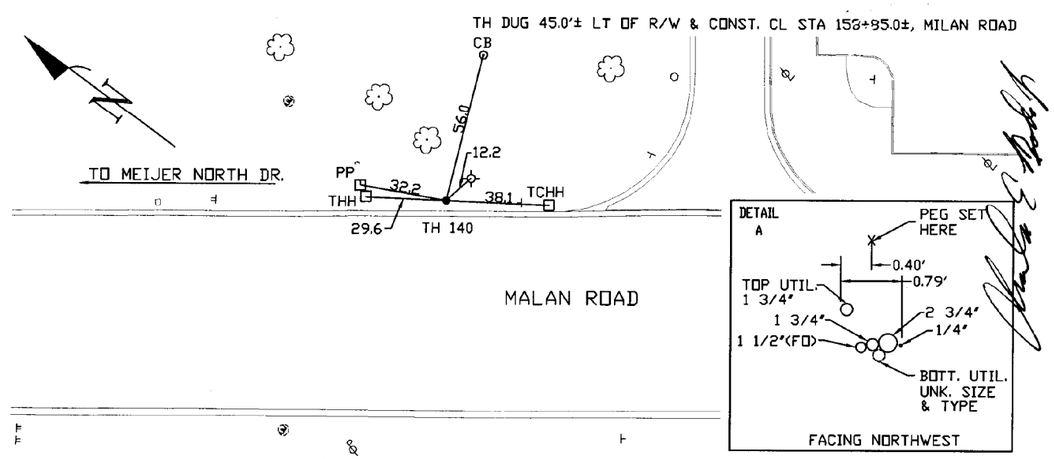
Facing **NORTHWEST**

SEE DETAIL A

Width ±

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep) Elev. **613.43'**
2.44' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **610.98'**
3.18'
Surveyed Elev. Bott. Util/Struc. (if required) **610.24'**

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #139 & #140

SO-DEEP
ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **141**
Plan Scale **1" = 20'**
Sheet # **11**
Proposed **SIGNAL POLE**
Date **MARCH 10, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **JUST SE OF #5218 MILAN ROAD**
Recorded Size/Material/Type **6" STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **614.12'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 48'± LT OF R/W & CONST. CL STA 180+76±, MILAN ROAD**

B.M. 2 Elev. = **613.59'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 54'± LT OF R/W & CONST. CL STA 185+36±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **HARD CLAY**

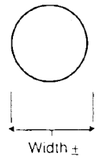
Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

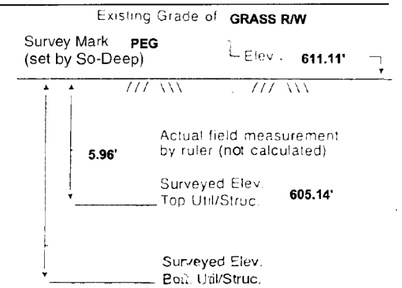
6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

Facing **NORTHWEST**

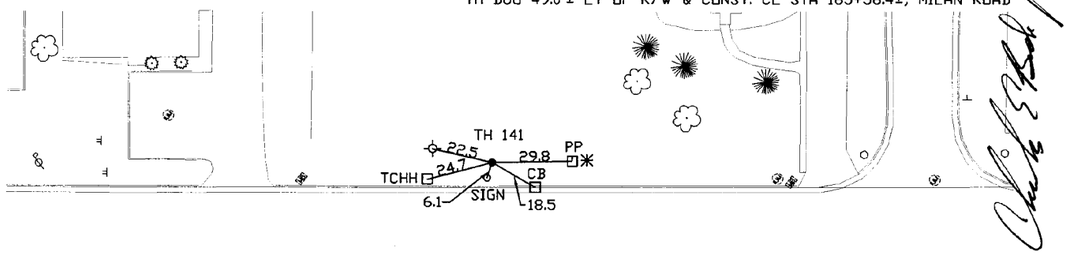


Existing Grade of **GRASS R/W**



Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #129, JOB EZLE326.

TH DUG 49.0'± LT OF R/W & CONST. CL STA 185+58.4±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
● = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **142**
Plan Scale **1" = 20'**
Sheet # **13**
Proposed **SIGNAL POLE**
Date **MARCH 11, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, SE OF MEIJER SOUTH DR.**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINES**
Foreman/Truck#/Form By **L. CARPENTER / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **615.76'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 46'± LT OF R/W & CONST. CL STA 163+54±, MILAN ROAD**

B.M. 2 Elev. = **616.16'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 47'± LT OF R/W & CONST. CL STA 167+06±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **CLAY**

Truck Location **ASPHALT ROADWAY**

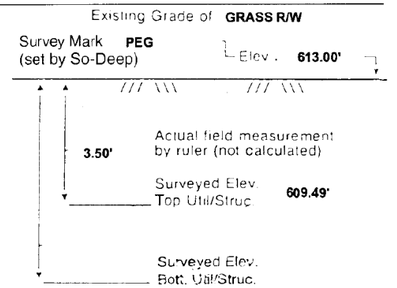
T.H. tied to **PEG**

SEE REMARKS *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

Facing **SOUTHEAST**

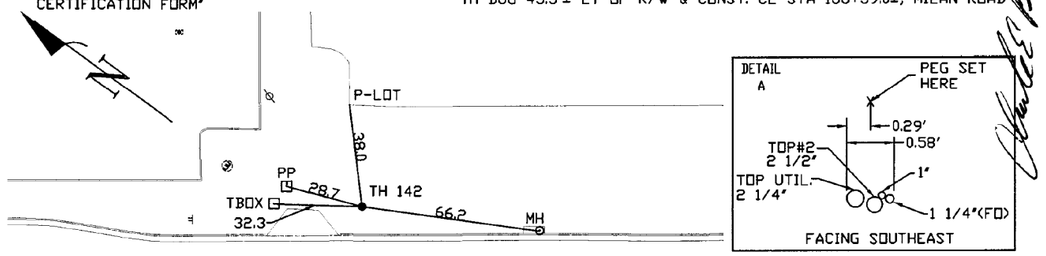
Existing Grade of **GRASS R/W**



TOP#2
ELEV. 609.40
ACTUAL 3.60

Remarks: * CREW FOUND (1) 1 1/4" PLASTIC AT&T (FO) CONDUIT, (1) 2 1/2" AT&T CABLE, (1) 2 1/4" AT&T CABLE &(1) 1" AT&T CABLE. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #143, JOB EZLE326.
'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'

TH DUG 45.5'± LT OF R/W & CONST. CL STA 168+59.0±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
● = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #141 & #142

ERI-250-0.00

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	143
Plan Scale	1" = 20'
Sheet #	13
Proposed	SIGNAL POLE
Date	MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, ES OF MEIJER SOUTH DR.**
Recorded Size/Material/Type **6" WRAPPED STEEL GAS LINE**
Foreman/Truck#/Form By **L. CARPENTER / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **615.76'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 46'± LT OF R/W & CONST. CL STA 163+54±, MILAN ROAD**

B.M. 2 Elev. = **616.16'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 47'± LT OF R/W & CONST. CL STA 167+06±, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW & ORANGE**

Soil Type **CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

6 3/4" WRAPPED STEEL GAS LINE *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **613.19'**

Facing **SOUTHEAST**

SEE DETAIL A

Width ±

2.86' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc. **610.32'**

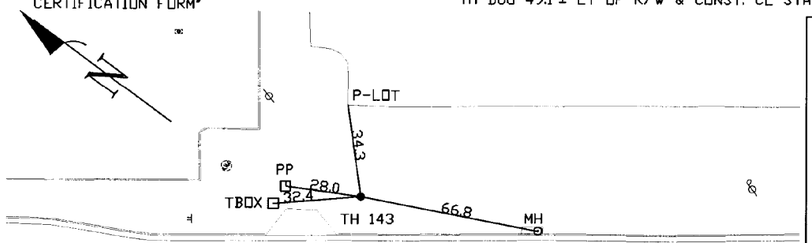
Surveyed Elev Bott. Util/Struc. (if required)

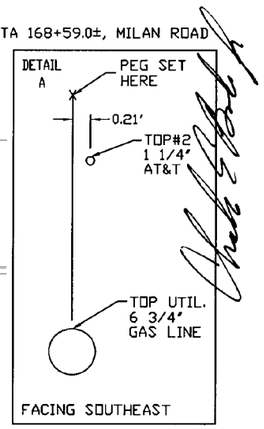
TOP#2
ELEV. 612.42
ACTUAL 0.77

Remarks: * CREW ALSO FOUND (1) 1 1/4" AT&T (FO) CABLE RUNNING ABOVE AND PARALLEL TO THE GAS LINE. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #142, JOB EZLE326.

"PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM"

TH DUG 49.1'± LT OF R/W & CONST. CL STA 168+59.0±, MILAN ROAD





MALAN ROAD

FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP US, P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	144
Plan Scale	1" = 20'
Sheet #	15
Proposed	SIGNAL POLE
Date	MARCH 11, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST S. OF GREAT WOLF LODGE**
Recorded Size/Material/Type **6" STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / P. REYNOLDS**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **616.23'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H. FOUND, 43'± RT OF R/W & CONST. CL STA 153+87±, MILAN ROAD**

B.M. 2 Elev. = **614.07'** is **GIVEN** Description: **(ERI0250017) TOP OF 1" I.P. IN MON BOX FOUND, 0.41' RT OF R/W & CONST. CL STA 156+74.01, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **STICKY CLAY**

Truck Location **ASP ASPHALT ROADWAY**

T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **613.47'**

Facing **NORTHWEST**

Width ±

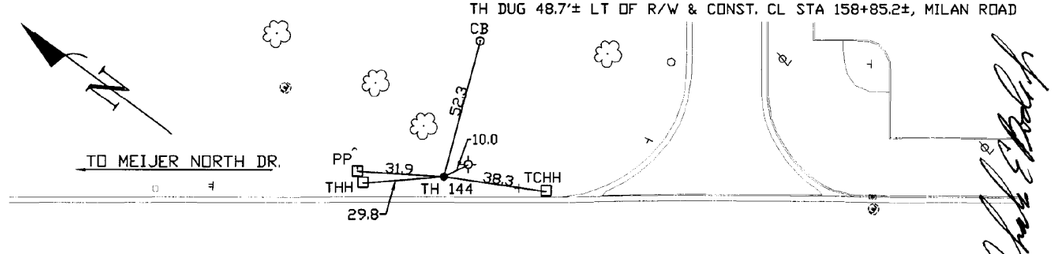
5.29' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc. **608.17'**

Surveyed Elev. Bott. Util/Struc. (if required)

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #140, JOB EZLE326.

TH DUG 48.7'± LT OF R/W & CONST. CL STA 158+85.2±, MILAN ROAD



MALAN ROAD

FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
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CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
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RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #143 & #144

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	145
Plan Scale	1" = 20'
Sheet #	8
Proposed	SIGNAL POLE
Date	MARCH 13, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN RD JUST PASSED RAMADA ST**
Recorded Size/Material/Type **UNK. SIZE & AT&T TELE. LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'** is **CALCULATED**
Description: **CHIS "X" N. MOST BONNET BOLT OF F.H. SET, 75'± RT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **DRY CLAY**

Truck Location **ASPHALT PARKING LOT**

T.H. tied to **PEG**

(1) 2 1/2" (1) 3/4"(FO) & (1)1 1/2" AT&T CABLES
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **607.58'**

Facing **SOUTHEAST**

2.79' Actual field measurement by ruler (not calculated)

Surveyed Elev. Top Util/Struc. **604.78'**

Surveyed Elev. Bott. Util/Struc. (if required)

SEE DETAIL A

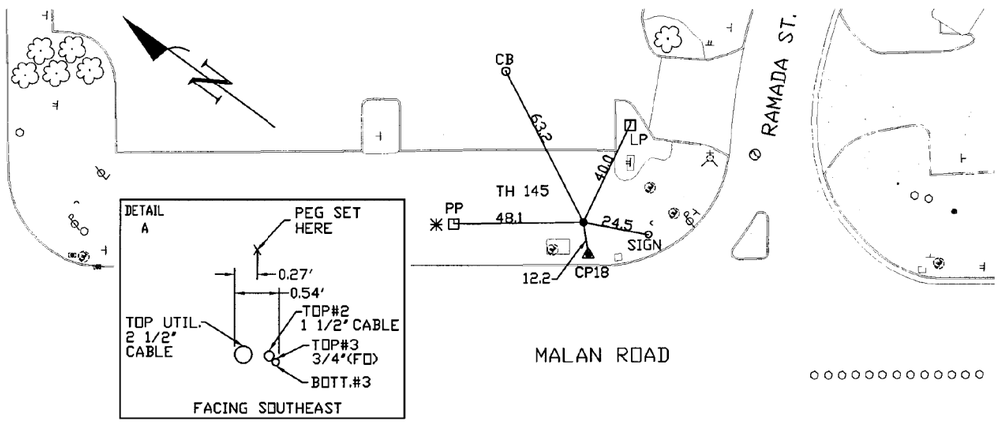
Width ±

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #146 & 124, JOB EZLE326.

	TOP#2	TOP#3	BOTT#3
ELEV.	604.73	604.63	604.54
ACTUAL	2.84	2.93	3.02

PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM

TH DUG 56.3'± LT OF R/W & CONST. CL STA 197+43.8±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	146
Plan Scale	1" = 20'
Sheet #	8
Proposed	SIGNAL POLE
Date	MARCH 13, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD JUST NW RAMADA ST.**
Recorded Size/Material/Type **5 3/16" STEEL GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **608.67'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, 49'± LT OF R/W & CONST. CL STA 200+80±, MILAN ROAD**

B.M. 2 Elev. = **608.56'** is **CALCULATED**
Description: **CHIS "X" N. MOST BONNET BOLT OF F.H. SET, 75'± RT OF R/W & CONST. CL STA 200+75±, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **DRY CLAY**

Truck Location **ASPHALT PARKING LOT**

T.H. tied to **PEG**

5 3/4" WRAPPED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL

Existing Grade of **GRASS R/W**

Survey Mark **PEG** (set by So-Deep) Elev. **607.49'**

Facing **SOUTHEAST**

6.96' Actual field measurement by ruler (not calculated)

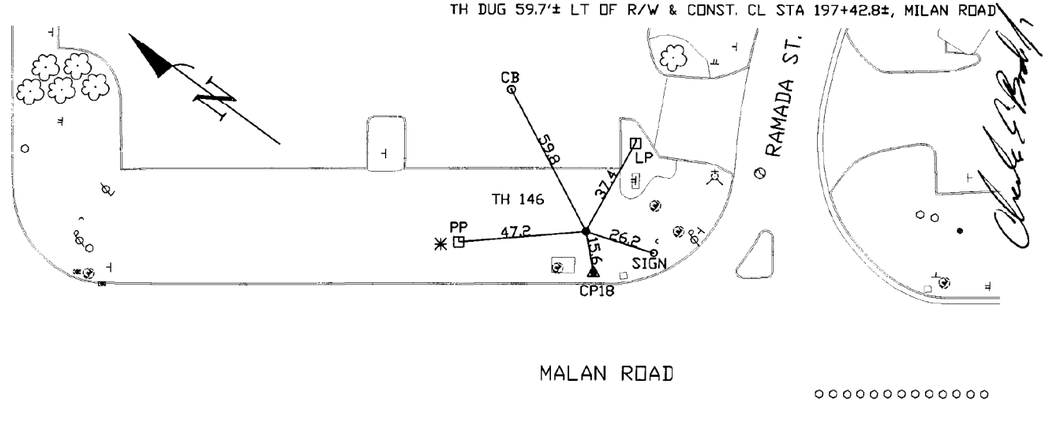
Surveyed Elev. Top Util/Struc. **600.53'**

Surveyed Elev. Bott. Util/Struc. (if required)

Width ±

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #145, JOB EZLE326.

TH DUG 59.7'± LT OF R/W & CONST. CL STA 197+42.8±, MILAN ROAD



FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
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C.I. = Cast Iron
D.I. = Ductile Iron
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TELE = Telephone
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DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

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.50' = 6"
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.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #145 & #146

ERI-250-0.00

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # EZLE326
Test Hole # 147
Plan Scale 1" = 20'
Sheet # 21A
Proposed SIGNAL POLE
Date MARCH 13, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD, NW OF SANDUSKY DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE & TYPE FUNCTION LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **611.07'** is **GIVEN**
Description: **(CP13) IRON PIN & CAP FOUND, 42.35' RT OF R/W & CONST. CL STA 124+96.25, MILAN ROAD**

Benchmarks Check **BY 0.01'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **BLUE**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **STEEL PIN**

3/8" STEEL GROUND CABLE *
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

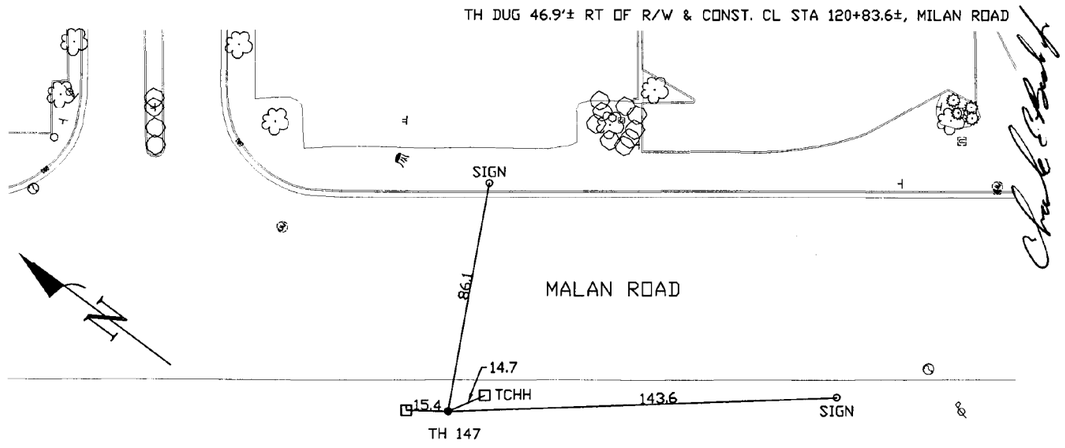
Remarks: * CREW FOUND A 3/8" STEEL GROUND CABLE FOR THE 69KV ELECTRIC OVERHEAD.

Facing **SOUTHEAST**

Width ±

Existing Grade of **GRASS R/W**
Survey Mark **STEEL PIN** (set by So-Deep)
Elev. **611.19'**
1.86' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **609.33'**
Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 46.9'± RT OF R/W & CONST. CL STA 120+83.6±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
• = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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The Subsurface Utility Engineering Company
449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # EZLE326
Test Hole # 148
Plan Scale 1" = 20'
Sheet # 18
Proposed SIGNAL POLE
Date MARCH 14, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, NN OF HULL ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **616.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

1 1/2" AT&T CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #149, JOB EZLE326.

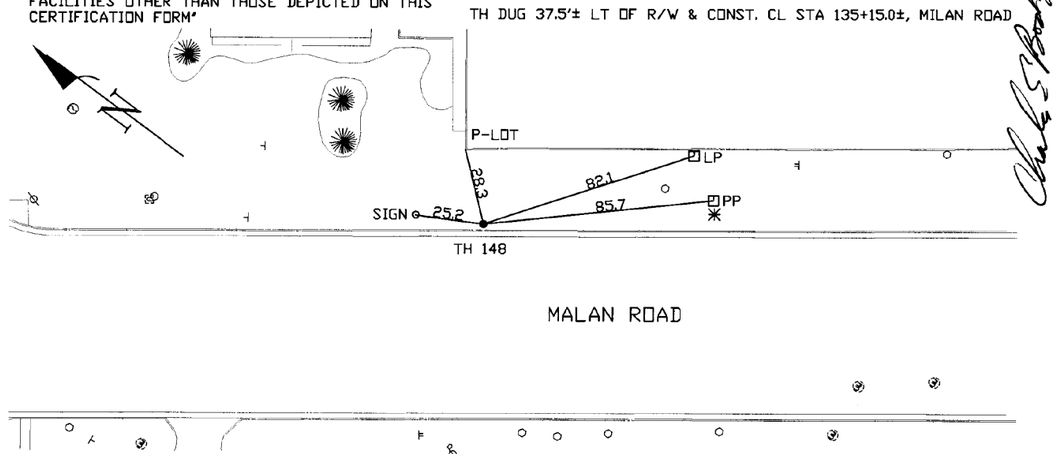
'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'

Facing **NORTHWEST**

Width ±

Existing Grade of **GRASS R/W**
Survey Mark **PEG** (set by So-Deep)
Elev. **613.52'**
2.35' Actual field measurement by ruler (not calculated)
Surveyed Elev. Top Util/Struc. **611.16'**
Surveyed Elev. Bott. Util/Struc. (if required)

TH DUG 37.5'± LT OF R/W & CONST. CL STA 135+15.0±, MILAN ROAD



FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
• = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

Performing out-of-sight work...with vision!™

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #147 & #148

ERI-250-0.00

63
66

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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **149**
Plan Scale **1" = 20'**
Sheet # **18**
Proposed **SIGNAL POLE**
Date **MARCH 14, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, NW OF HULL ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T DUCT**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN** Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **616.29'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

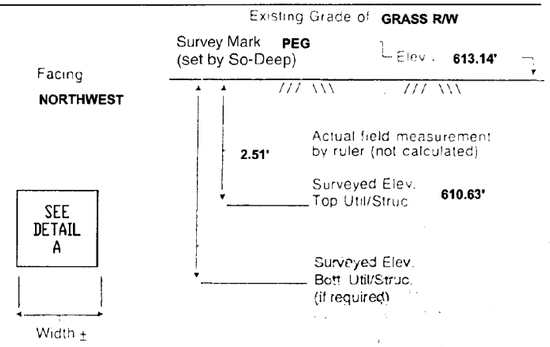
Soil Type **ROCKY CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

2.79' W. R.P.C. AT&T DUCT *
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

N/A

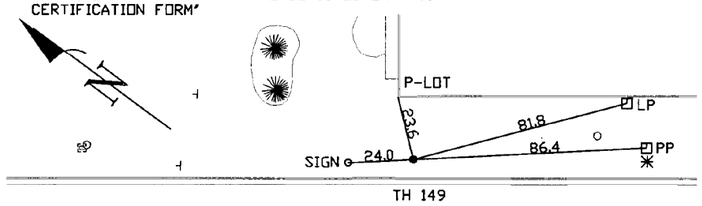


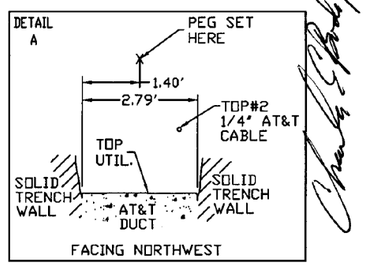
Remarks: * CREW WAS UNABLE TO OBTAIN AN ACCURATE BOTTOM ELEVATION OF THE AT&T DUCT DUE TO SOLID ROCK TRENCH WALLS. CREW ALSO FOUND 1/4" AT&T CABLE RUNNING ABOVE AND PARALLEL TO THE TELE. DUCT. NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #148 & 150, JOB EZLE326.

TOP#2
ELEV. 612.21
ACTUAL 0.93

'PREPARED WITHOUT AT&T AND FRONTIER DIRECT BURIED RECORDS. WE ACCEPT NO LIABILITY FOR FACILITIES OTHER THAN THOSE DEPICTED ON THIS CERTIFICATION FORM'

TH DUG 42.1'± LT OF R/W & CONST. CL STA 135+14.0±, MILAN ROAD





MALAN ROAD

FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
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The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control # **EZLE326**
Test Hole # **150**
Plan Scale **1" = 20'**
Sheet # **18**
Proposed **SIGNAL POLE**
Date **MARCH 14, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, NW OF HULL ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE CATV LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN** Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **616.29'** is **GIVEN** Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

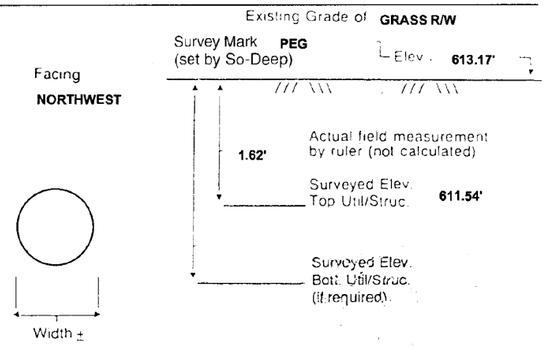
Soil Type **ROCKY CLAY**

Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

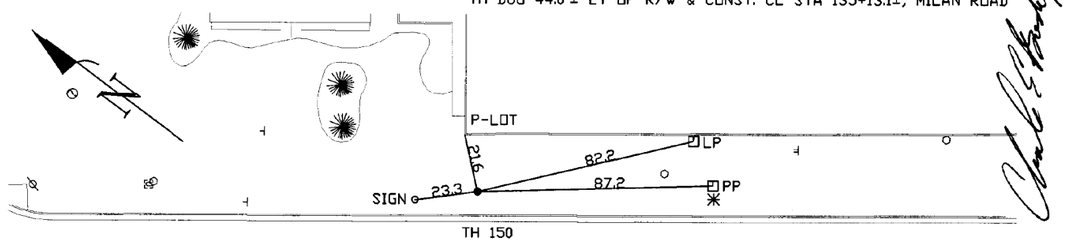
3/4" CATV CABLE
Size/Material/Type
Portion of pipe exposed
for O.D. measurement:

FULL



Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #151 & 149, JOB EZLE326.

TH DUG 44.0'± LT OF R/W & CONST. CL STA 135+13.1±, MILAN ROAD



MALAN ROAD

FO = Fiber-Optic Cable	CL = Centerline	.08' = 1"	Sewer Manhole
MTD = Multi Tile Duct	T.C. = Tera Cotta	.16' = 2"	Test Hole
R/W = Rights of Way	PLAS. = Plastic	.25' = 3"	Fire Hydrant
N.T.S. = Not to Scale	BL = Base Line	.33' = 4"	Pole
* = Not Shown on Plan	ELEC. = Electric	.42' = 5"	Fence Line
PCC = Precast Concrete	TELE = Telephone	.50' = 6"	Electric Manhole
COND. = Conduit	T.H. = Test Hole	.58' = 7"	= T.S. = Traverse Station
CONC. = Concrete	SW = Sidewalk	.67' = 8"	Valve
O.D. = Outside Diameter	DW = Driveway	.75' = 9"	Water Meter
C.I. = Cast Iron	BM = Benchmark	.83' = 10"	Telephone Manhole
D.I. = Ductile Iron	C.B. = Catch Basin	.92' = 11"	Telephone Pedestal
RPC = Rough Pour Concrete	GV = Gas Valve		

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SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #149 & #150

ERI-250-0.00

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The Subsurface Utility Engineering Company

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(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	151
Plan Scale	1" = 20'
Sheet #	18
Proposed	SIGNAL POLE
Date	MARCH 14, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD, NW OF HULL ROAD**
Recorded Size/Material/Type **UNK. SIZE TYPE GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **616.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

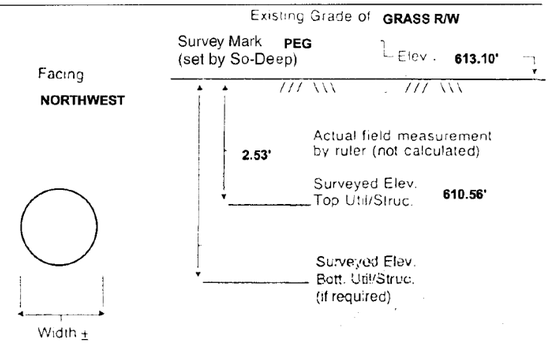
Benchmarks Check **BY 0.02'**
Elevations are referenced to **B.M.#2**

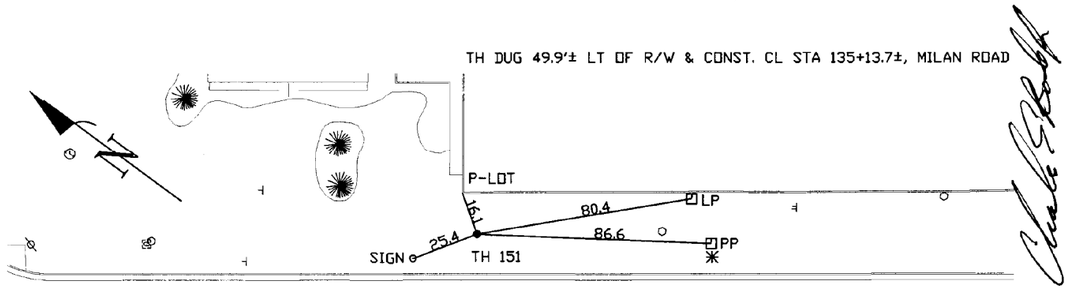
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **YELLOW**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

6 3/4" COATED STEEL GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #150, JOB EZLE326.





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

.08' = 1"
.16' = 2"
.25' = 3"
.33' = 4"
.42' = 5"
.50' = 6"
.58' = 7"
.67' = 8"
.75' = 9"
.83' = 10"
.92' = 11"

Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	EZLE326
Test Hole #	152
Plan Scale	1" = 20'
Sheet #	16
Proposed	SIGNAL POLE
Date	MARCH 14, 2014

City, County, State **ERIE CO., OHIO**
Gen. Loc. **NE SIDE MILAN ROAD. SE OF HULL ROAD**
Recorded Size/Material/Type **UNK. SIZE & TYPE AT&T LINE**
Foreman/Truck#/Form By **T. BARRETT / 219 / T. BARRETT**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **617.58'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H. FOUND, W. SIDE OF MILAN ROAD AT QUARRY ENTRANCE**

B.M. 2 Elev. = **616.29'** is **GIVEN**
Description: **TOP OF OPERATING NUT OF F.H., 43'± RT OF R/W & CONST. CL STA 139+77±, MILAN ROAD**

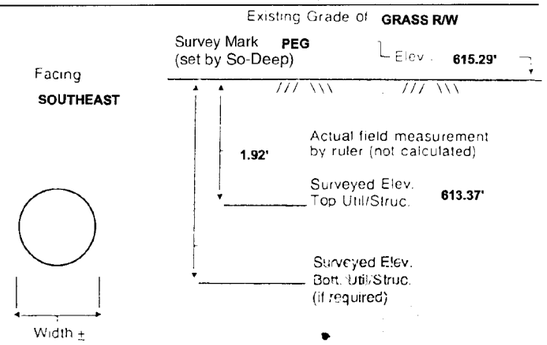
Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

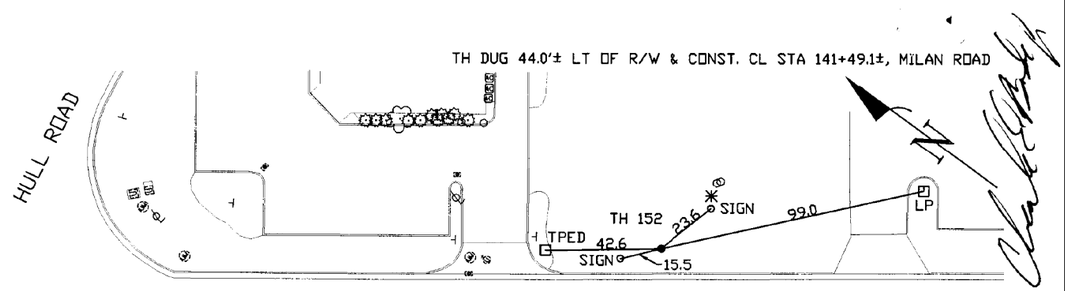
So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**
There **WERE NOT** additional utilities in the test hole
The utility **WAS** in good condition
Paving Thickness and type **NO PAVING**
Color of ribbon installed **ORANGE**
Soil Type **ROCKY CLAY**
Truck Location **ASPHALT ROADWAY**
T.H. tied to **PEG**

3/4" AT&T CABLE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:
FULL

Remarks: NOTE: ADDITIONAL UTILITIES LIE IN CLOSE PROXIMITY TO THIS TEST HOLE. REFER TO TEST HOLE #133, JOB EZLE326.





FO = Fiber-Optic Cable
MTD = Multi Tile Duct
R/W = Rights of Way
N.T.S. = Not to Scale
* = Not Shown on Plan
PCC = Precast Concrete
COND. = Conduit
CONC. = Concrete
O.D. = Outside Diameter
C.I. = Cast Iron
D.I. = Ductile Iron
RPC = Rough Pour Concrete

CL = Centerline
T.C. = Tera Cotta
PLAS. = Plastic
BL = Base Line
ELEC. = Electric
TELE = Telephone
T.H. = Test Hole
SW = Sidewalk
DW = Driveway
BM = Benchmark
C.B. = Catch Basin
GV = Gas Valve

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Sewer Manhole
Test Hole
Fire Hydrant
Pole
Fence Line
Electric Manhole
= T.S. = Traverse Station
Valve
Water Meter
Telephone Manhole
Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #151 & #152

ERI-250-0.00

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SO-DEEP US. P.C.

The Subsurface Utility Engineering Company

449 Munroe Falls Road
Tallmadge, OH 44278
(330) 794-4455

Test Hole Certification Form
Utility Quality Level A Data

ASCE C/I 38-02

Corporate Headquarters
8397 Euclid Avenue
Manassas Park, VA 20111
(703) 361-6005

Control #	**EZLE326**
Test Hole #	**153**
Plan Scale	**1" = 20'**
Sheet #	**20**
Proposed	**SIGNAL POLE**
Date	**MARCH 15, 2014**

City, County, State **ERIE CO., OHIO**
Gen. Loc. **MILAN ROAD, SE OF SANDUSKY DR. NORTH**
Recorded Size/Material/Type **UNK. SIZE TYPE GAS LINE**
Foreman/Truck#/Form By **E. CARROLL / 223 / S. ERICKSON**

Condition of paving prior to work **NO PAVING**

B.M. 1 Elev. = **612.30'** is **GIVEN**
Description: **TOP OF R.R SPIKE FOUND, BASE OF POLE #427-C2 4, 47'± RT OF R/W & CONST. CL STA 130+95±, MILAN ROAD**

B.M. 2 Elev. = **611.07'** is **GIVEN**
Description: **(CP13) IRON PIN & CAP FOUND, 42.35' RT OF R/W & CONST. CL STA 124+96.25, MILAN ROAD**

Benchmarks Check **BY 0.00'**
Elevations are referenced to **B.M.#1**

So-Deep will attempt to use the BM/HI most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole

The utility **WAS** in good condition

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

Soil Type **ROCKY CLAY**

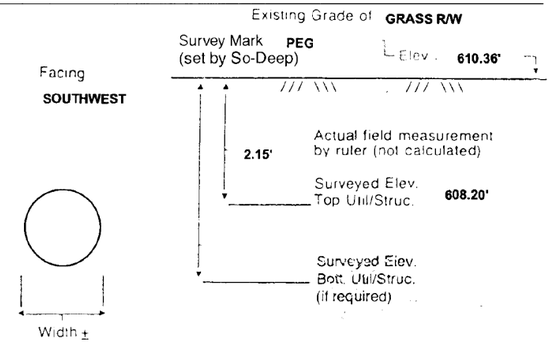
Truck Location **ASPHALT ROADWAY**

T.H. tied to **PEG**

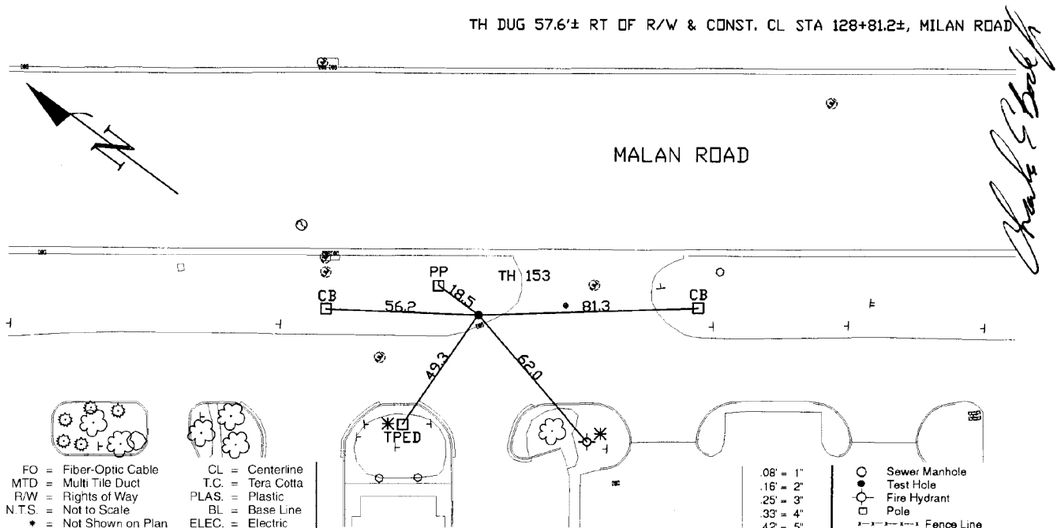
1 1/4" PLASTIC GAS LINE
Size/Material/Type
Portion of pipe exposed for O.D. measurement:

FULL

Remarks: NONE



TH DUG 57.6'± RT OF R/W & CONST. CL STA 128+81.2±, MILAN ROAD



FO	Fiber-Optic Cable	CL	Centerline
MTD	Multi Tile Duct	T.C.	Tera Cotta
R/W	Rights of Way	PLAS.	Plastic
N.T.S.	Not to Scale	BL	Base Line
•	Not Shown on Plan	ELEC.	Electric
PCC	Precast Concrete	TELE	Telephone
COND.	Conduit	T.H.	Test Hole
CONC.	Concrete	SW	Sidewalk
O.D.	Outside Diameter	DW	Driveway
C.I.	Cast Iron	BM	Benchmark
D.I.	Ductile Iron	C.B.	Catch Basin
RPC	Rough Pour Concrete	GV	Gas Valve

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- Sewer Manhole
- Test Hole
- Fire Hydrant
- Pole
- Fence Line
- E Electric Manhole
- T.S. = Traverse Station
- Valve
- W Water Meter
- T Telephone Manhole
- Telephone Pedestal

SO-DEEP TEST HOLE LEVEL QUALITY A DATA
TEST HOLE #153

ERI-250-0.00

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