

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

**STA-SUM ITS
PART 2**

FOR PART 1, SEE VAR-CLEVELAND
FREEWAY MANAGEMENT SYSTEM

PROJECT DESCRIPTION

THE STARK-SUMMIT ITS PROJECT IS TO IMPROVE SAFETY THROUGH BETTER CONGESTION MANAGEMENT AND TRAVELLER INFORMATION THROUGHOUT THE AKRON CANTON REGION. THE SYSTEM COVERS PORTIONS OF MEDINA, PORTAGE, STARK AND SUMMIT COUNTIES

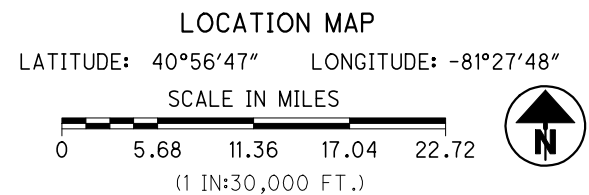
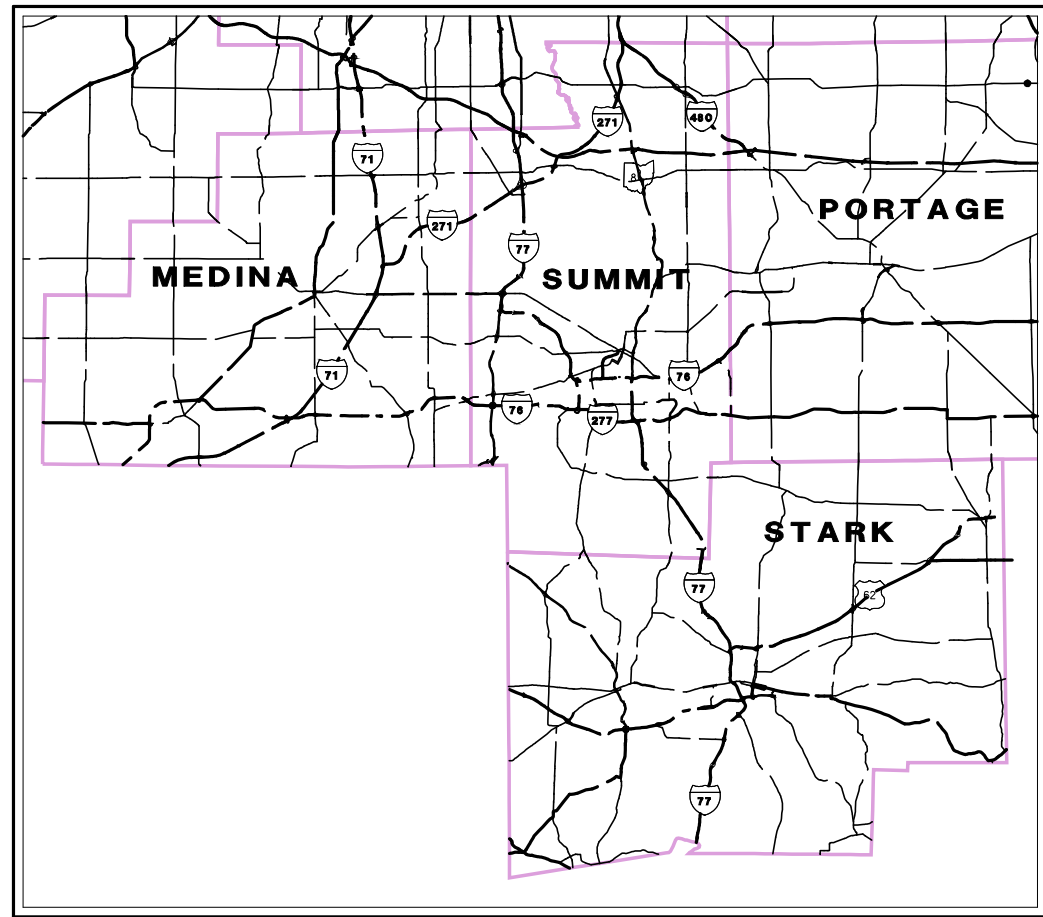
PROJECT EARTH DISTURBED AREA = N/A
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A
NOTICE OF INTENT EARTH DISTURBED AREA = N/A

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2008 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.



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NOTE: ALL PLAN SHEETS ARE TO READ AS XXX/155

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:



ENGINEERS SEAL:
STATE OF OHIO
ANGELA M. CHRISTO
E. 89111
PROFESSIONAL ENGINEER
SIGNED: *Angela M. Christo*
DATE: 11/24/08

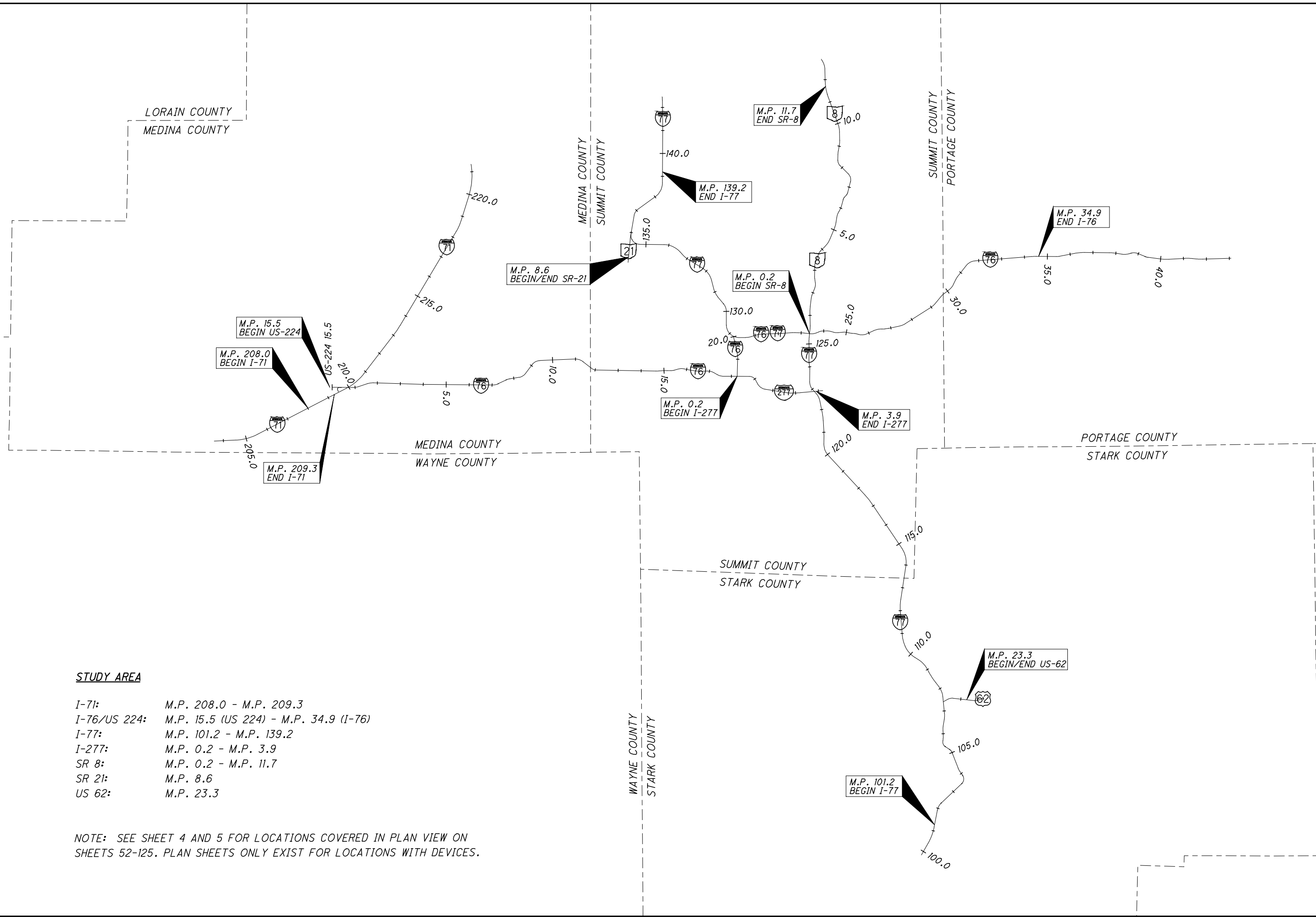
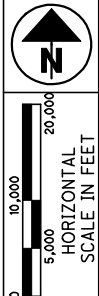
ODOT STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
	SEE PART 1	SEE PART 1
		SPECIAL PROVISIONS
		SEE PART 1

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO. **E 040 (727)**
PID NO. **77331**
CONSTRUCTION PROJECT NO. **NONE**
RAILROAD INVOLVEMENT **NONE**
STA-SUM ITS
1/155



STUDY AREA

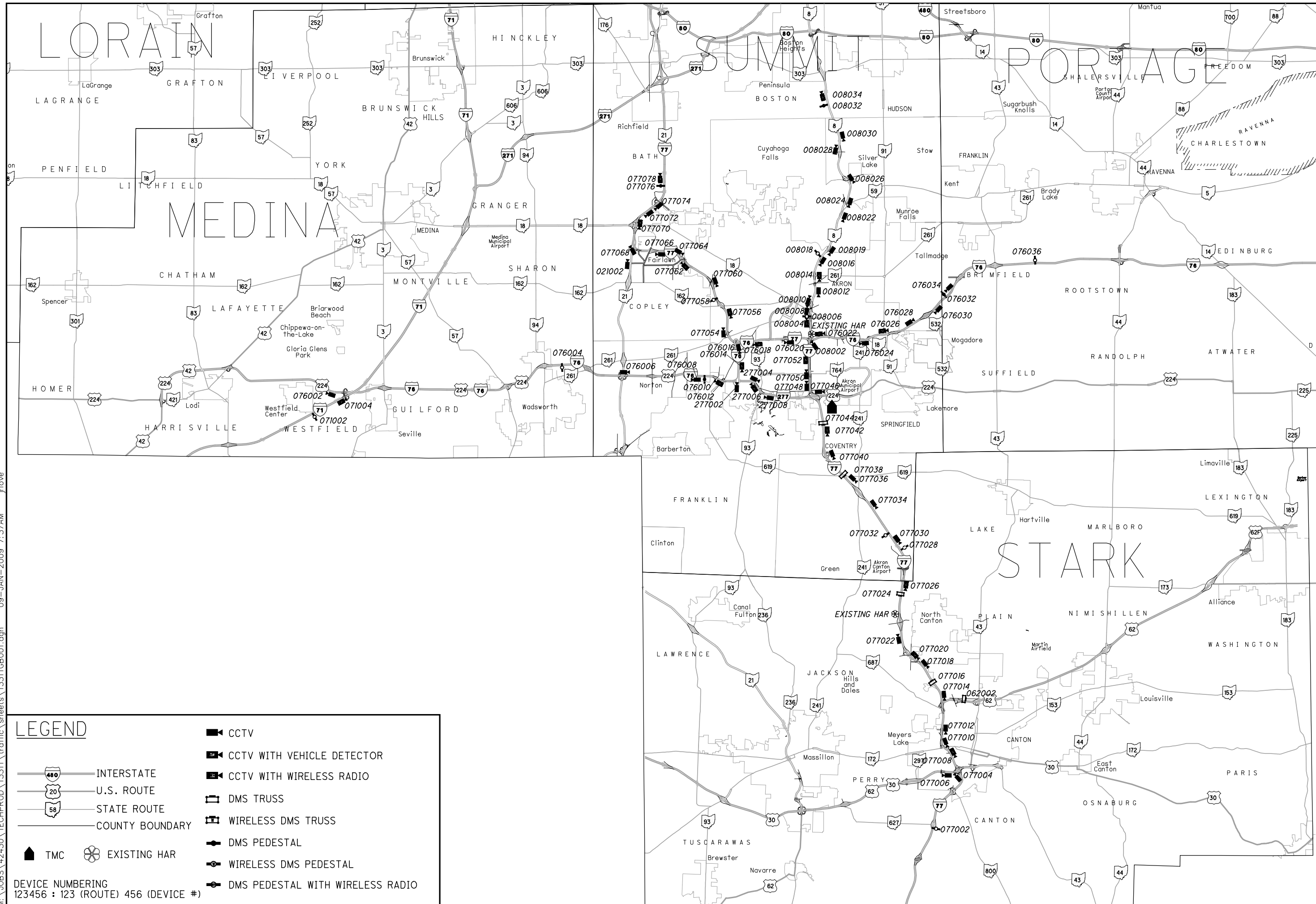
I-71:	M.P. 208.0 - M.P. 209.3
I-76/US 224:	M.P. 15.5 (US 224) - M.P. 34.9 (I-76)
I-77:	M.P. 101.2 - M.P. 139.2
I-277:	M.P. 0.2 - M.P. 3.9
SR 8:	M.P. 0.2 - M.P. 11.7
SR 21:	M.P. 8.6
US 62:	M.P. 23.3

NOTE: SEE SHEET 4 AND 5 FOR LOCATIONS COVERED IN PLAN VIEW ON SHEETS 52-125. PLAN SHEETS ONLY EXIST FOR LOCATIONS WITH DEVICES.

SCHEMATIC PLAN

STA - SUM ITS

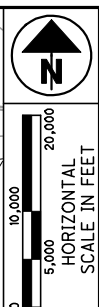
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LEGEND

	INTERSTATE		CCTV
	U.S. ROUTE		CCTV WITH VEHICLE DETECTOR
	STATE ROUTE		CCTV WITH WIRELESS RADIO
	COUNTY BOUNDARY		DMS TRUSS
	TMC		WIRELESS DMS TRUSS
	EXISTING HAR		DMS PEDESTAL
			WIRELESS DMS PEDESTAL
			DMS PEDESTAL WITH WIRELESS RADIO

DEVICE NUMBERING
123456 : 123 (ROUTE) 456 (DEVICE #)



ITS DEVICE LOCATIONS

STA-SUM ITS
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I-71 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
071002	52	132	208.00	101 RT'	DMS PEDESTAL	WIRELESS-CDMA
071004	53	132	209.30	118 RT'	CCTV w/ VD	T-1

I-76 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
076002	54	133	0.53	167' LT	CCTV	T-1
076004	55	133	10.62	74' RT	DMS PEDESTAL	WIRELESS-CDMA
076006	56	133	13.42	75' LT	CCTV	T-1
076008	57	133	16.82	75' RT	CCTV	SHARED EOC
076010	57	133	16.86	66' RT	DMS PEDESTAL	EOC
076012	58	133	17.81	59' RT	CCTV w/ VD	EOC
076014	60	133	19.39	50' RT	CCTV w/ VD	EOC
076016	61	133	20.24	37' RT	CCTV	T-1
076018	62	133	21.54	92' RT	CCTV w/ VD	T-1
076020	63	133	22.88	124' RT	CCTV	EOC
076022	65	133	24.30	83' LT	CCTV w/ VD	T-1
076024	66	133	26.19	72' RT	CCTV	EOC
076026	67	133	27.04	72' LT	CCTV w/ VD	EOC
076028	68	134	28.45	79' LT	CCTV	EOC
076030	69	134	29.80	70' LT	CCTV	EOC
076032	71	134	30.62	73' LT	DMS PEDESTAL	EOC
076034	71	134	30.68	85' LT	CCTV	SHARED EOC
076036	72	134	34.92	77' LT	DMS PEDESTAL	WIRELESS-CDMA

EOC - ETHERNET OVER COPPER
CDMA - CODE DIVISION MULTIPLE ACCESS

I-77 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
077002	73	135	101.27	115' RT	DMS PEDESTAL	WIRELESS-CDMA
077004	74	135	103.96	95' LT	CCTV	EOC
077006	75	135	104.19	639' LT	CCTV	EOC
077008	75	135	105.13	132' RT	CCTV w/ VD	EOC
077010	76	135	105.53	68' RT	CCTV	EOC
077012	77	135	106.20	61' RT	CCTV	T-1
077014	78	135	107.45	64' RT	CCTV	EOC
077016	79	135	108.51	68' LT	DMS TRUSS	WIRELESS-CDMA
077018	80	135	109.46	198' RT	CCTV	T-1
077020	81	135	110.00	66' RT	CCTV w/ VD	T-1
077022	82	135	110.85	146' LT	CCTV	T-1
HAR	83	135	111.97	155' LT	EXISTING HAR	WIRELESS-CDMA
077024	85	136	112.80	82' RT	DMS TRUSS	WIRELESS-CDMA
077026	86	136	113.45	95' RT	CCTV w/ VD	EOC
077028	87	136	114.83	96' RT	DMS PEDESTAL	WIRELESS RADIO
077030	87	136	115.21	85' RT	CCTV	EOC
077032	88	136	116.29	92' LT	DMS PEDESTAL	WIRELESS-CDMA
077034	89	136	117.21	119' RT	CCTV	EOC
077036	90	136	118.90	89' RT	CCTV	SHARED EOC
077038	90	136	118.93	86' RT	DMS TRUSS	EOC
077040	91	136	120.24	94' RT	CCTV	T-1
077042	92	136	121.42	78' RT	CCTV w/ VD	SHARED T-1
077044	92	136	121.44	82' RT	DMS TRUSS	T-1
077046	93	136	3.87	57' LT	CCTV	EOC
077048	94	136	123.25	76' LT	CCTV	EOC
077050	95	136	123.93	99' LT	CCTV	EOC
077052	96	137	124.43	66' LT	CCTV w/ VD	EOC
077054	97	137	129.24	131' LT	CCTV	T-1
077056	98	137	130.27	94' RT	CCTV w/ VD	T-1
077058	99	137	130.98	72' LT	DMS PEDESTAL	WIRELESS-CDMA
077060	100	137	131.76	187' RT	CCTV	EOC
077062	101	137	132.85	73' LT	CCTV w/ VD	T-1
077064	102	137	133.71	80' RT	CCTV	EOC
077066	103	137	134.36	77' LT	CCTV	T-1
077068	104	137	135.55	313' LT	CCTV	T-1
077070	105	137	136.66	80' RT	CCTV w/ VD	T-1
077072	106	137	137.58	69' RT	CCTV	T-1
077074	107	137	138.15	160' RT	CCTV	T-1
077076	108	137	139.11	86' LT	DMS PEDESTAL	T-1
077078	108	137	139.13	94' LT	CCTV w/ VD	SHARED T-1

I-277 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
277002	59	138	.21	133' RT	CCTV	EOC
277004	110	138	.87	65' LT	CCTV	T-1
277006	110	138	1.15	60' RT	CCTV w/ VD	EOC
277008	111	138	1.92	66' RT	CCTV	T-1

SR-8 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
008002	64	140	23.45	52' RT	CCTV	SHARED T-1
HAR	64	140	0.24	268' RT	EXISTING HAR	T-1
008004	112	140	0.94	97' LT	CCTV w/ VD	EOC
008006	112	140	1.24	76' LT	DMS PEDESTAL	WIRELESS-CDMA
008008	113	140	1.44	81' LT	CCTV	EOC
008010	113	140	1.73	109' LT	CCTV	EOC
008012	114	140	2.38	62' RT	CCTV	T-1
008014	115	140	3.02	78' RT	CCTV w/ VD	T-1
008016	116	140	3.93	60' RT	CCTV	EOC
008018	116	140	4.01	72' LT	DMS PEDESTAL	WIRELESS-CDMA
008019	117	140	4.42	62' RT	CCTV	EOC
008022	118	140	6.17	95' RT	CCTV	EOC
008024	119	140	6.70	122' RT	CCTV	EOC
008026	120	141	7.64	80' RT	CCTV	T-1
008028	121	141	6.07	73' RT	CCTV	EOC
008030	122	141	9.81	103' RT	CCTV	EOC
008032	123	141	11.64	76' LT	DMS PEDESTAL	T-1
008034	123	141	11.66	72' LT	CCTV w/ VD	SHARED T-1

SR-21 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
021002	124	142	8.56	70' RT	CCTV	T-1

US 62 DEVICES						
DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
062002	125	139	23.26	67' LT	DMS TRUSS	WIRELESS-CDMA

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I-71 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
071002	52	132	41.01751	-81.92338	DMS PEDESTAL	WIRELESS-CDMA
071004	53	132	41.02604	-81.90146	CCTV w/ VD	T-1

I-76 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
076002	54	133	41.03038	-81.89935	CCTV	T-1
076004	55	133	41.04689	-81.71324	DMS PEDESTAL	WIRELESS-CDMA
076006	56	133	41.04009	-81.66246	CCTV	T-1
076008	57	133	41.03900	-81.59690	CCTV	SHARED EOC
076010	57	133	41.03878	-81.59783	DMS PEDESTAL	EOC
076012	58	133	41.03572	-81.57975	CCTV w/ VD	EOC
076014	60	133	41.04747	-81.56479	CCTV w/ VD	EOC
076016	61	133	41.05971	-81.56790	CCTV	T-1
076018	62	133	41.06166	-81.54547	CCTV w/ VD	T-1
076020	63	133	41.06225	-81.51974	CCTV	EOC
076022	65	133	41.06368	-81.49303	CCTV w/ VD	T-1
076024	66	133	41.06106	-81.45721	CCTV	EOC
076026	67	133	41.06452	-81.44191	CCTV w/ VD	EOC
076028	68	134	41.07132	-81.41700	CCTV	EOC
076030	69	134	41.08299	-81.39656	CCTV	EOC
076032	71	134	41.09181	-81.38464	DMS PEDESTAL	EOC
076034	71	134	41.09108	-81.38517	CCTV	SHARED EOC
076036	72	134	41.10904	-81.31280	DMS PEDESTAL	WIRELESS-CDMA

EOC - ETHERNET OVER COPPER
CDMA - CODE DIVISION MULTIPLE ACCESS

I-77 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
077002	73	135	40.75082	-81.40530	DMS PEDESTAL	WIRELESS-CDMA
077004	74	135	40.78251	-81.38293	CCTV	EOC
077006	75	135	40.78430	-81.38680	CCTV	EOC
077008	75	135	40.79800	-81.39154	CCTV w/ VD	EOC
077010	76	135	40.80161	-81.39735	CCTV	EOC
077012	77	135	40.81122	-81.39749	CCTV	T-1
077014	78	135	40.82923	-81.39691	CCTV	EOC
077016	79	135	40.84282	-81.40546	DMS TRUSS	WIRELESS-CDMA
077018	80	135	40.85464	-81.41500	CCTV	T-1
077020	81	135	40.85887	-81.42356	CCTV w/ VD	T-1
077022	82	135	40.86973	-81.43084	CCTV	T-1
HAR	83	135	40.88592	-81.43247	EXISTING HAR	WIRELESS-CDMA
077024	85	136	40.89782	-81.43013	DMS TRUSS	WIRELESS-CDMA
077026	86	136	40.90702	-81.42821	CCTV w/ VD	EOC
077028	87	136	40.92664	-81.43037	DMS PEDESTAL	WIRELESS RADIO
077030	87	136	40.93108	-81.43431	CCTV	EOC
077032	88	136	40.93690	-81.44010	DMS PEDESTAL	WIRELESS-CDMA
077034	89	136	40.95541	-81.45525	CCTV	EOC
077036	90	136	40.97412	-81.47708	CCTV	SHARED EOC
077038	90	136	40.97410	-81.47708	DMS TRUSS	EOC
077040	91	136	40.98867	-81.49286	CCTV	T-1
077042	92	136	41.00583	-81.49391	CCTV w/ VD	SHARED T-1
077044	92	136	41.00580	-81.49389	DMS TRUSS	T-1
077046	93	136	41.02561	-81.50043	CCTV	EOC
077048	94	136	41.02999	-81.50524	CCTV	EOC
077050	95	136	41.03995	-81.50545	CCTV	EOC
077052	96	137	41.04706	-81.50571	CCTV w/ VD	EOC
077054	97	137	41.06546	-81.57415	CCTV	T-1
077056	98	137	41.08041	-81.57510	CCTV w/ VD	T-1
077058	99	137	41.08851	-81.58355	DMS PEDESTAL	WIRELESS-CDMA
077060	100	137	41.09955	-81.58708	CCTV	EOC
077062	101	137	41.10876	-81.60422	CCTV w/ VD	T-1
077064	102	137	41.11724	-81.61622	CCTV	EOC
077066	103	137	41.11891	-81.62823	CCTV	T-1
077068	104	137	41.12033	-81.65148	CCTV	T-1
077070	105	137	41.13622	-81.65030	CCTV w/ VD	T-1
077072	106	137	41.14557	-81.63909	CCTV	T-1
077074	107	137	41.15034	-81.63001	CCTV	T-1
077076	108	137	41.16372	-81.62646	DMS PEDESTAL	T-1
077078	108	137	41.16403	-81.62648	CCTV w/ VD	SHARED T-1

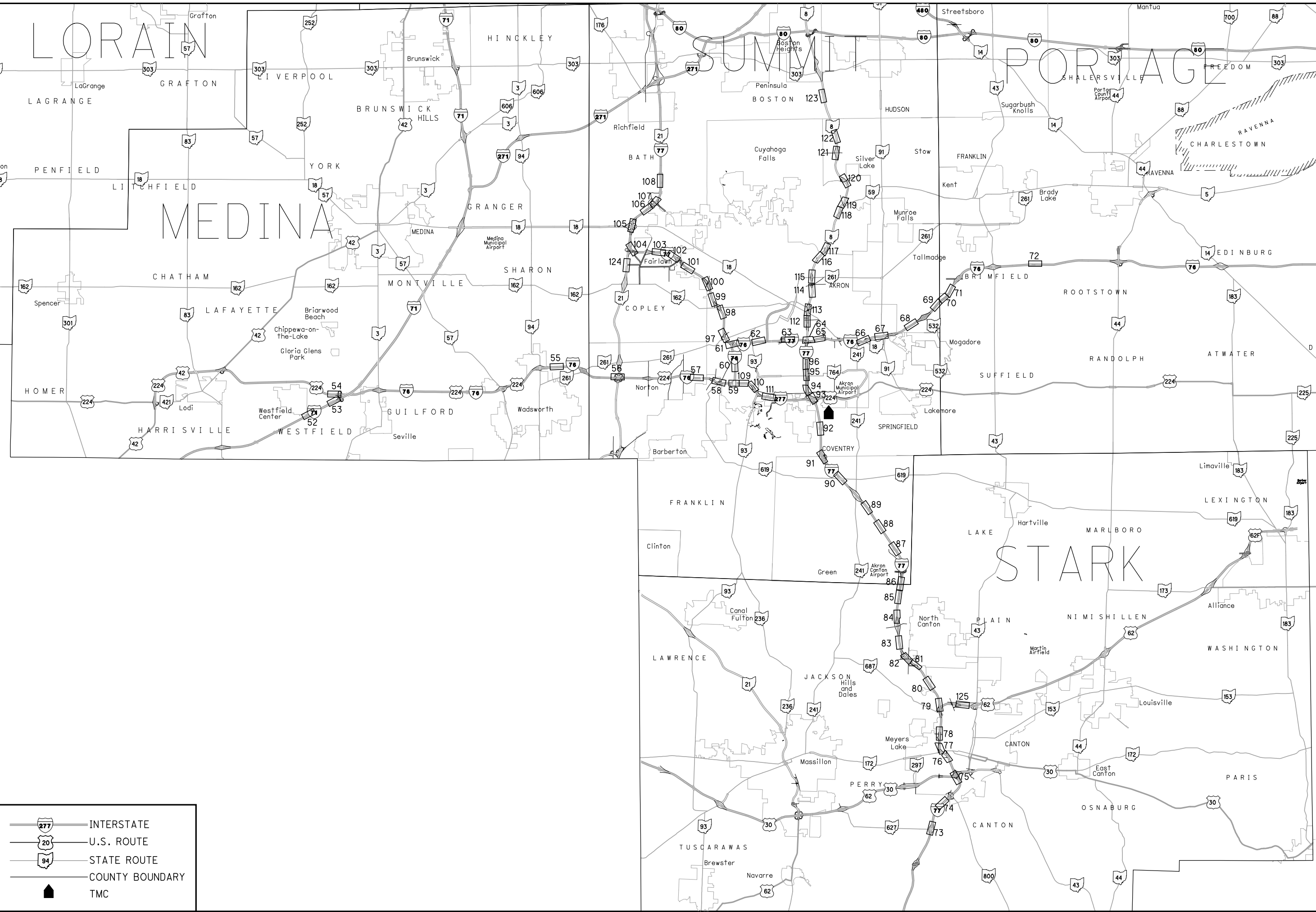
I-277 DEVICES						
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	PLANS	COMM.				
277002	59	138	41.03509	-81.56536	CCTV	EOC
277004	110	138	41.03502	-81.55277	CCTV	T-1
277006	110	138	41.03172	-81.54961	CCTV w/ VD	EOC
277008	111	138	41.02633	-81.53759	CCTV	T-1

SR-8 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
008002	64	140	41.06163	-81.50327	CCTV	SHARED T-1
HAR	64	140	41.06246	-81.50384	EXISTING HAR	T-1
008004	112	140	41.07256	-81.50459	CCTV w/ VD	EOC
008006	112	140	41.07690	-81.50444	DMS PEDESTAL	WIRELESS-CDMA
008008	113	140	41.07987	-81.50408	CCTV	EOC
008010	113	140	41.08396	-81.50349	CCTV	EOC
008012	114	140	41.09295	-81.49920	CCTV	T-1
008014	115	140	41.10216	-81.49970	CCTV w/ VD	T-1
008016	116	140	41.11421	-81.49427	CCTV	EOC
008018	116	140	41.11529	-81.49350	DMS PEDESTAL	WIRELESS-CDMA
008019	117	140	41.11957	-81.48793	CCTV	EOC
008022	118	140	41.14319	-81.47622	CCTV	EOC
008024	119	140	41.14973	-81.47159	CCTV	EOC
008026	120	141	41.16283	-81.47094	CCTV	T-1
008028	121	141	41.18115	-81.47831	CCTV	EOC
008030	122	141	41.19177	-81.47780	CCTV	EOC
008032	123	141	41.21687	-81.48913	DMS PEDESTAL	T-1
008034	123	141	41.21716	-81.48919	CCTV w/ VD	SHARED T-1

SR-21 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
021002	124	142	41.11148	-81.65494	CCTV	T-1

US 62 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
062002	125	139	40.82974	-81.37754	DMS TRUSS	WIRELESS-CDMA

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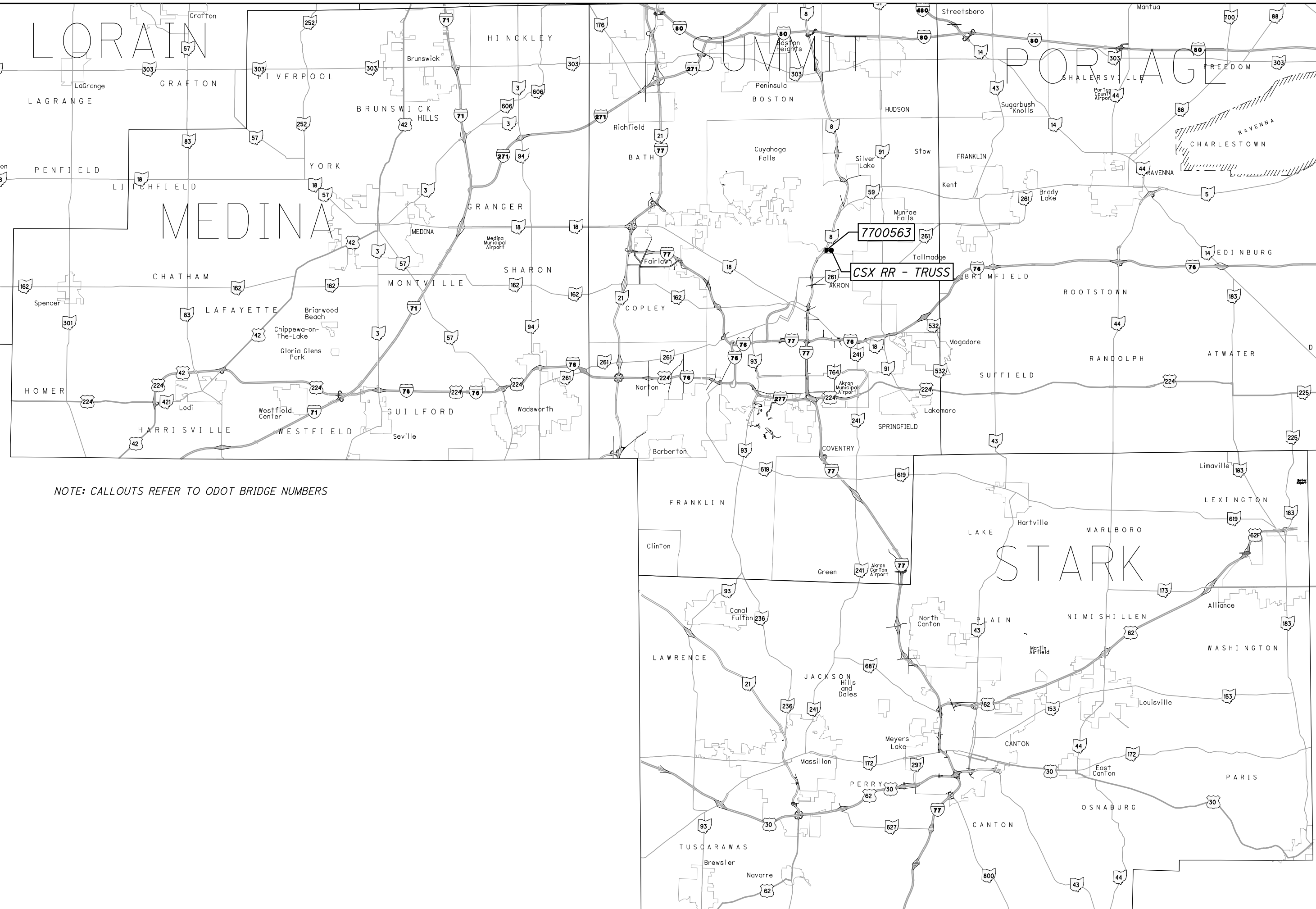
	INTERSTATE
	U.S. ROUTE
	STATE ROUTE
	COUNTY BOUNDARY
	TMC

0 5,000 10,000 20,000
HORIZONTAL SCALE IN FEET

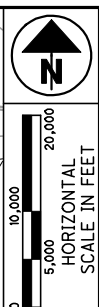
SHEET LAYOUT

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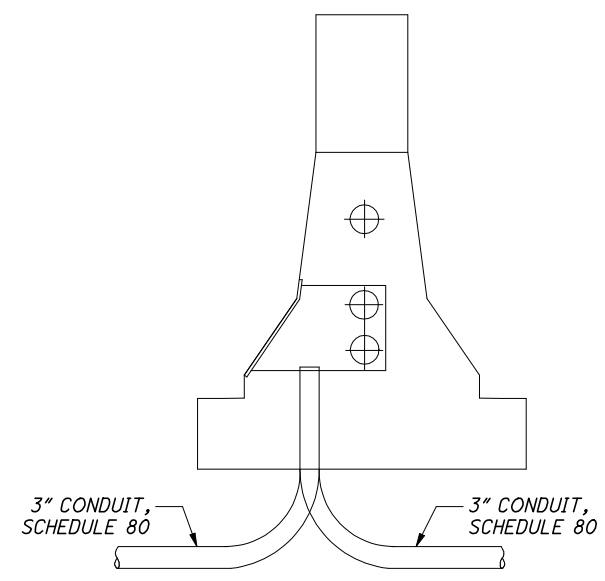
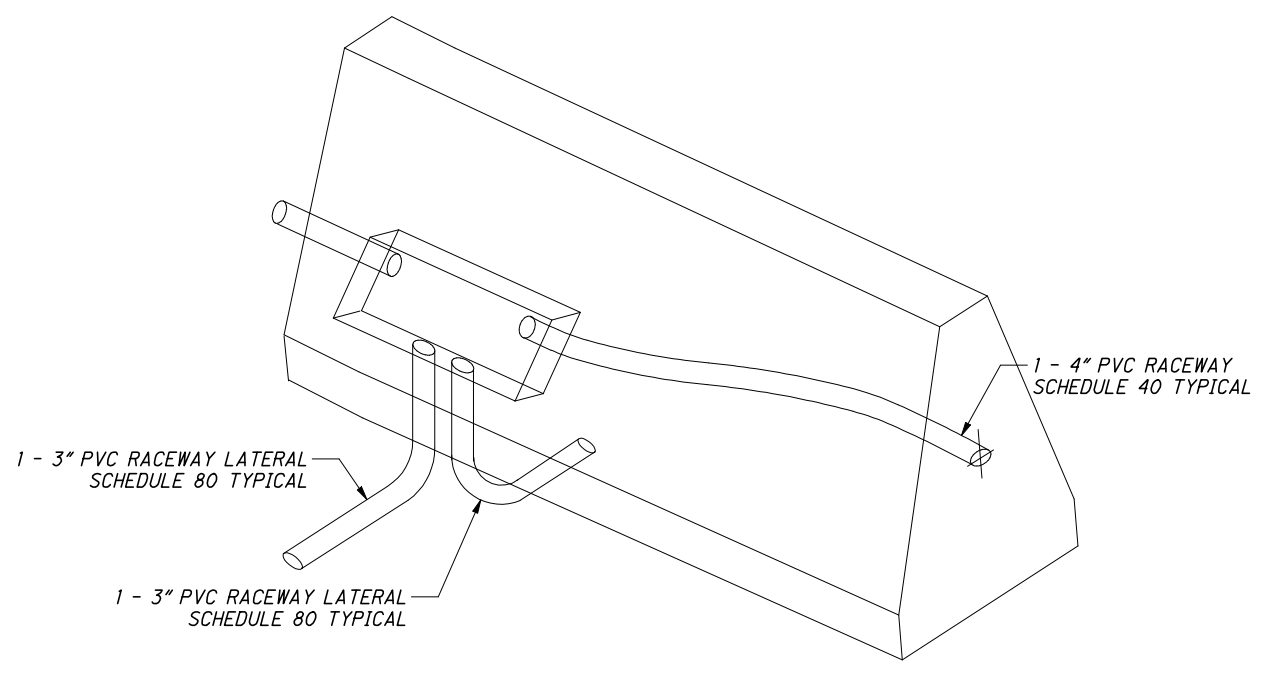
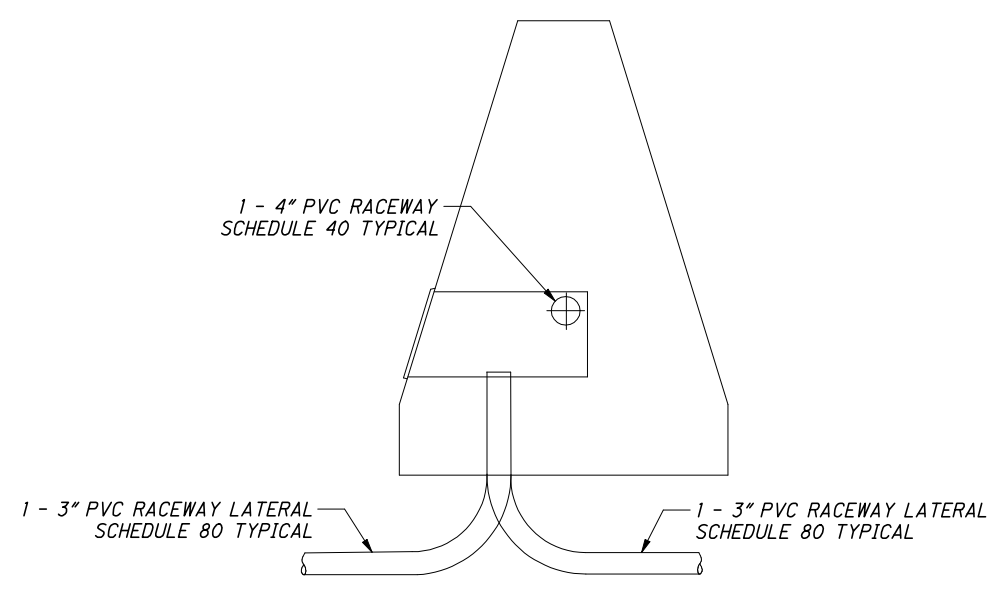


NOTE: CALLOUTS REFER TO ODOT BRIDGE NUMBERS

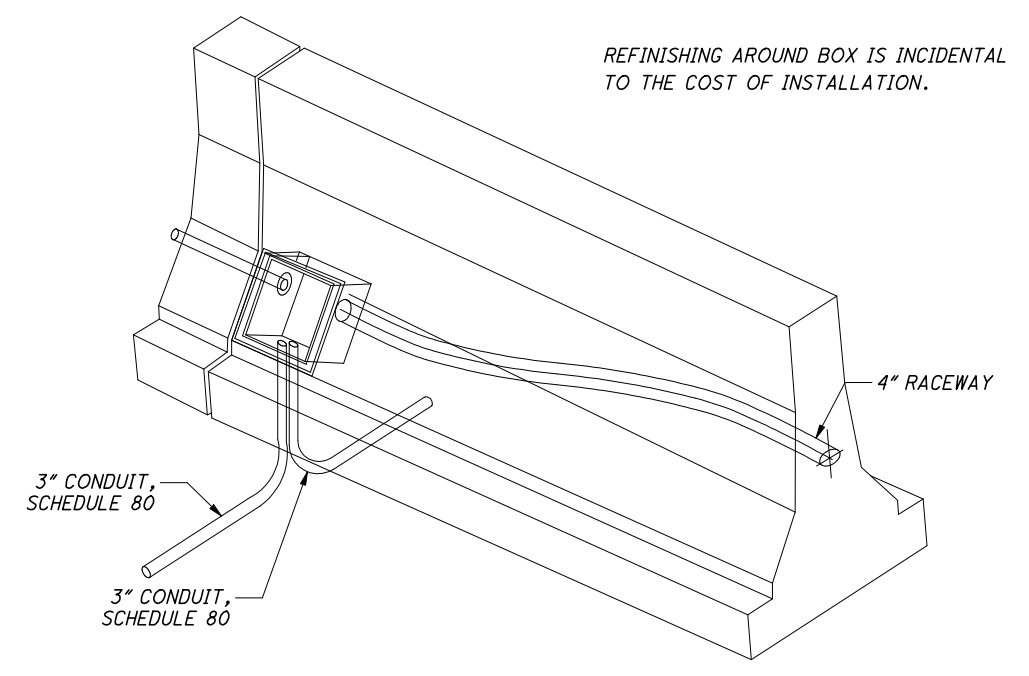


LOCATIONS WITH CONDUIT ON STRUCTURE

STA-SUM ITS



ALTERNATE METHOD:
CONTRACTOR MAY CUT OUT A 10'-0" SECTION OF WALL AND REPLACE IT WITH A SECTION CONTAINING A NEW PULLBOX. AN EXPANSION JOINT SHALL BE USED ON EACH END OF THE CUT OUT SECTION. SEE DETAIL, SHEET 9.

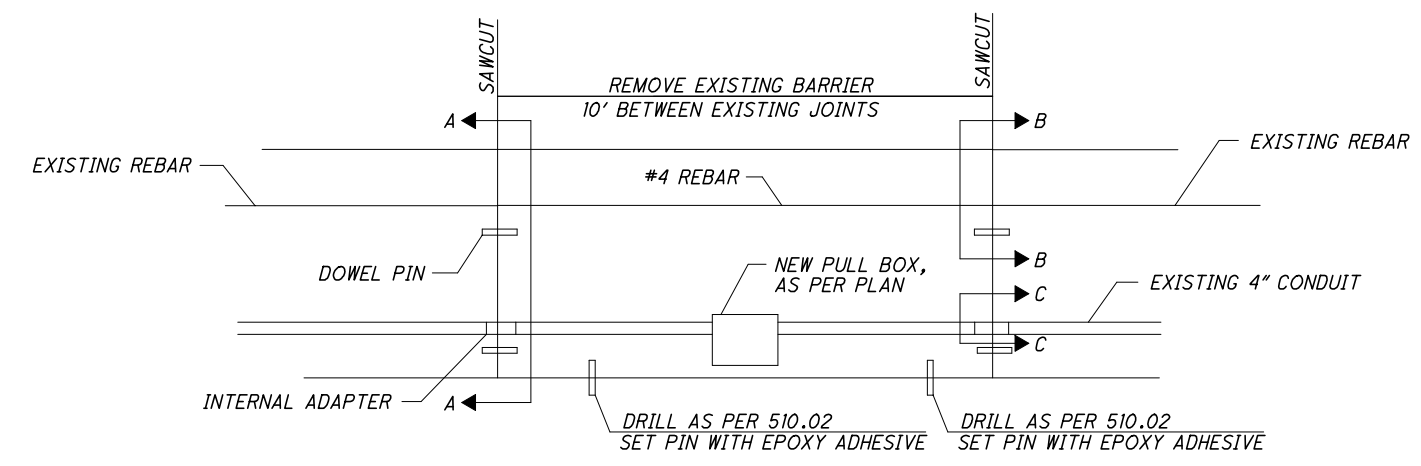


SURVEILLANCE PULL BOX AND CONDUIT
MODIFICATIONS TO EXISTING MEDIAN PULL BOX

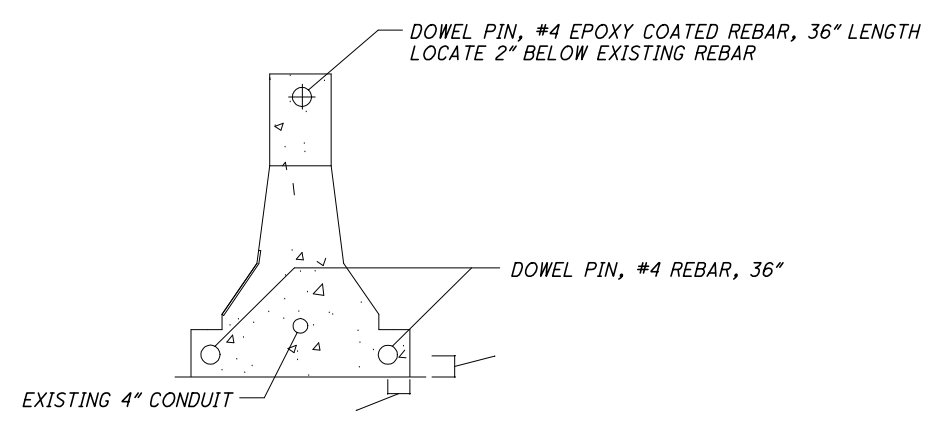
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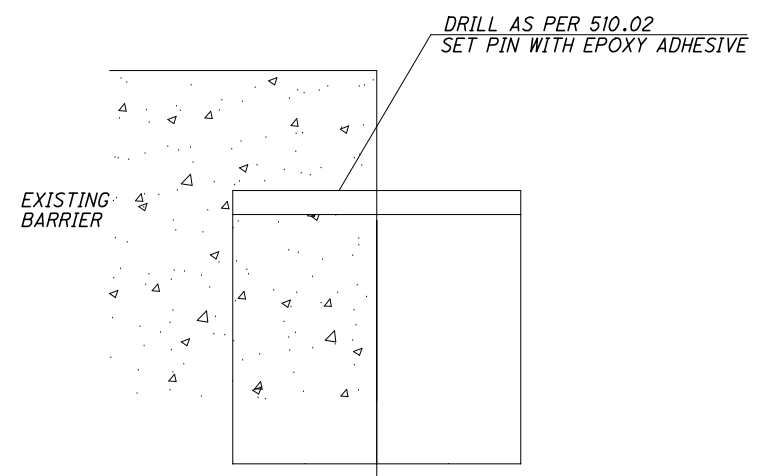
1. HORIZONTAL AND VERTICAL SAWCUT EXISTING BARRIER AT EXISTING JOINTS. REMOVE AND DISPOSE OF ALL MATERIAL BETWEEN CUTS DOWN TO THE BASE SLAB. HORIZONTAL AND VERTICAL SAWCUTS ARE INCIDENTAL TO BARRIER WORK.
2. SET DOWEL PINS BY EPOXY GROUTING IN EXISTING BARRIER WALL, CONNECT ALL CONDUITS AND SET NEW PULL BOX AS SHOWN.
3. POUR NEW CONCRETE. EXISTING BARRIER SHALL BE COATED WITH A BONDING COMPOUND, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, BEFORE THE POUR IS STARTED.
4. WORK SHALL INCLUDE ALL REMOVAL AND REPLACEMENT OF, STEEL, CONDUIT, MEDIAN PULL BOX (IF APPLICABLE) AND CONCRETE ITEMS.
5. THE CONTRACTOR SHALL ASSURE THAT THE REMOVAL AND REPLACEMENT OF MEDIAN BARRIER PROVIDES MINIMAL RISK TO MOTORISTS. UPON REMOVAL OF THE SECTIONS OF BARRIER TO BE REPLACED, THE CONTRACTOR SHALL INSTALL TWO TEMPORARY STEEL GUARDRAIL SECTIONS OF DOUBLE THICKNESS (NESTED) ACROSS THE OPENING ON EACH SIDE OF THE BARRIER. EACH END OF EACH SECTION SHALL BE BOLTED TO THE BARRIER USING FORMED END SECTIONS AND WEDGE BOLTS OF THE SIZE AND QUANTITY SHOWN ON STANDARD DRAWING GR-3.2. THE TEMPORARY STEEL GUARDRAIL SHALL BE IN PLACE BY THE END OF THE WORK SHIFT OR BEFORE THE CONTRACTOR LEAVES THE SITE. AS AN ALTERNATE, THE CONTRACTOR MAY POUR THE REPLACEMENT CONCRETE BARRIER THE SAME DAY AS THE ORIGINAL SECTION IS REMOVED.



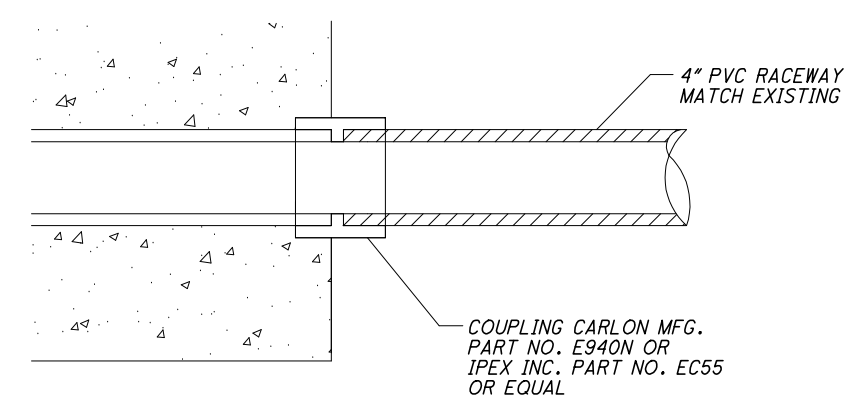
CONCRETE BARRIER
NEW OR REPLACEMENT MEDIAN PULL BOX IN EXISTING BARRIER



SECTION A-A

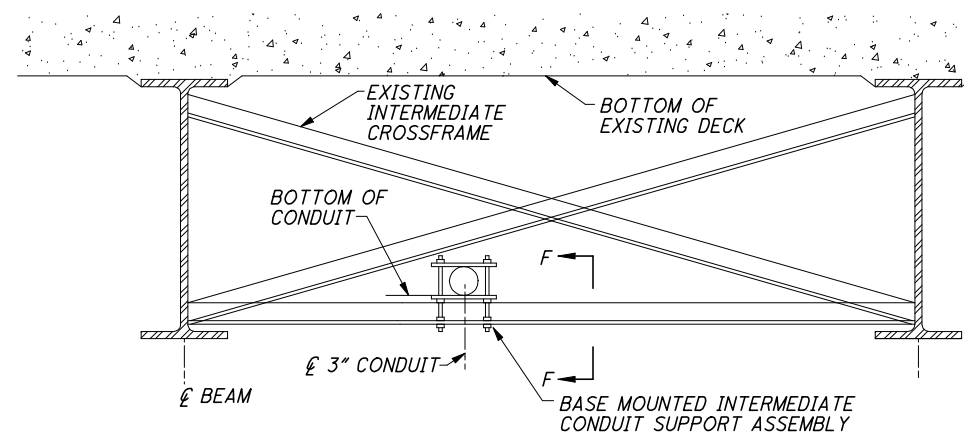


SECTION B-B

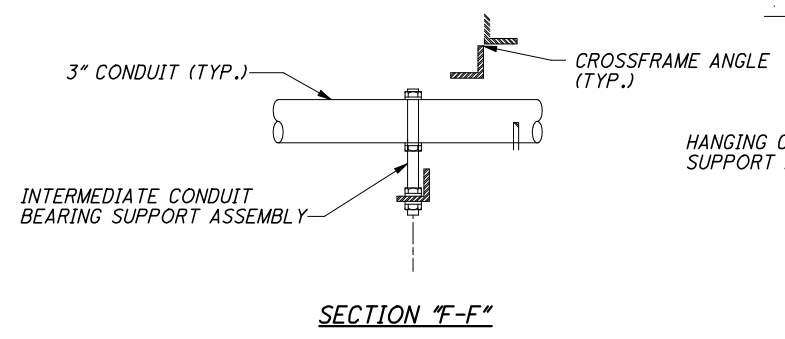


SECTION C-C

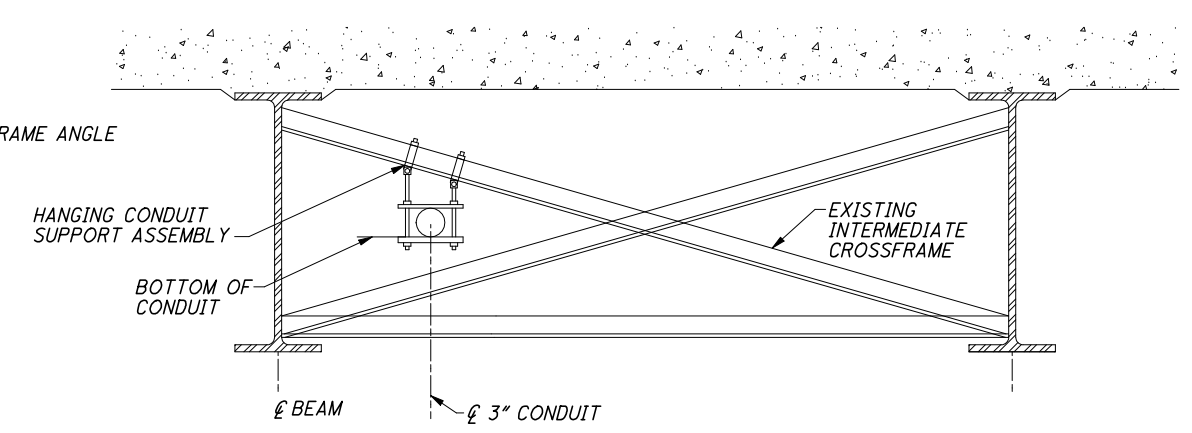
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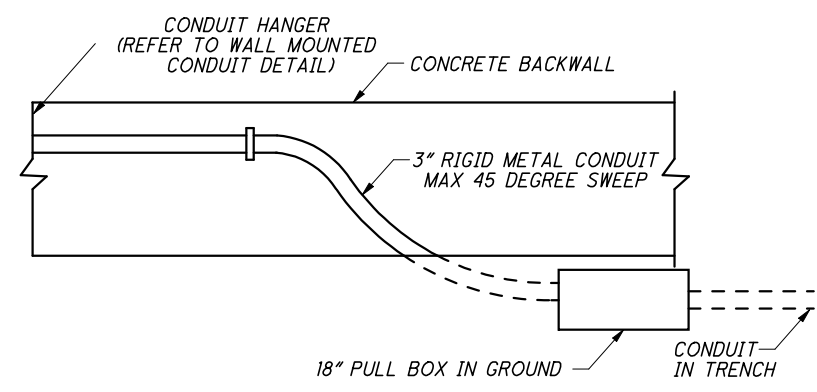
CONDUIT BEARING ATTACHMENT



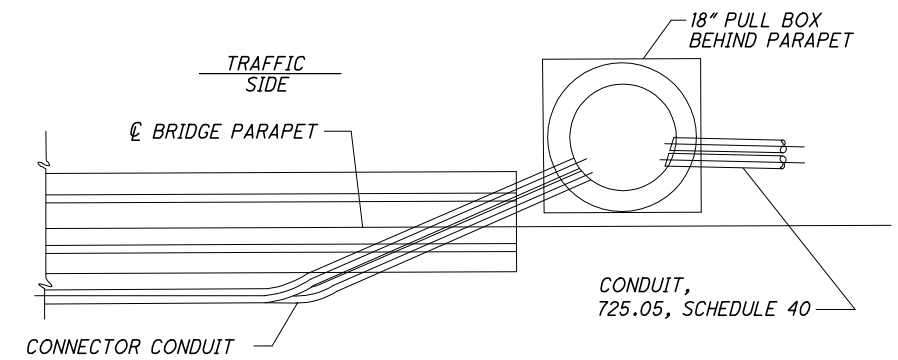
SECTION "F-F"



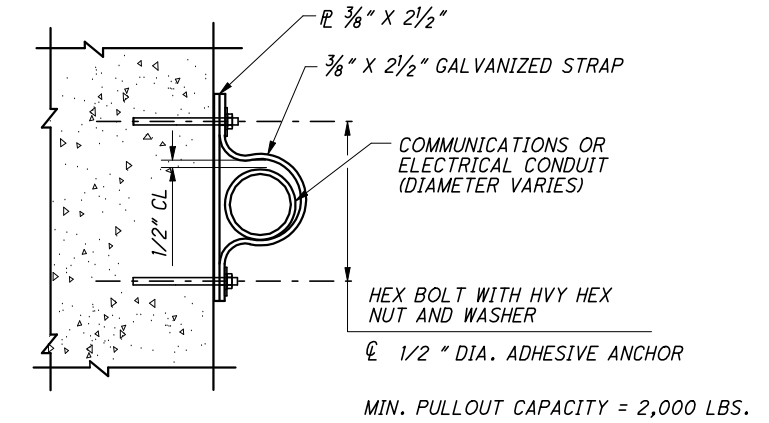
CONDUIT HANGING ATTACHMENT



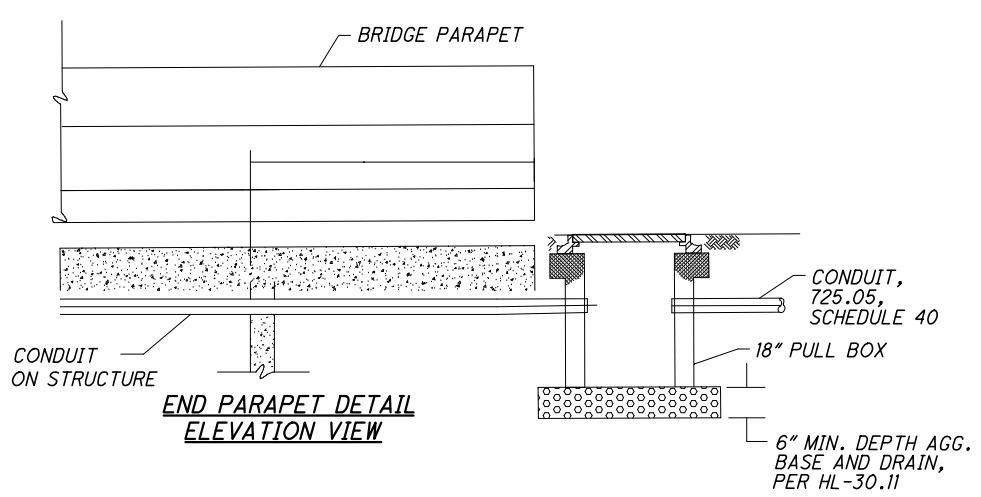
CONDUIT TRANSITION TO CONCRETE WALL
NOT TO SCALE



END PARAPET DETAIL
PLAN VIEW

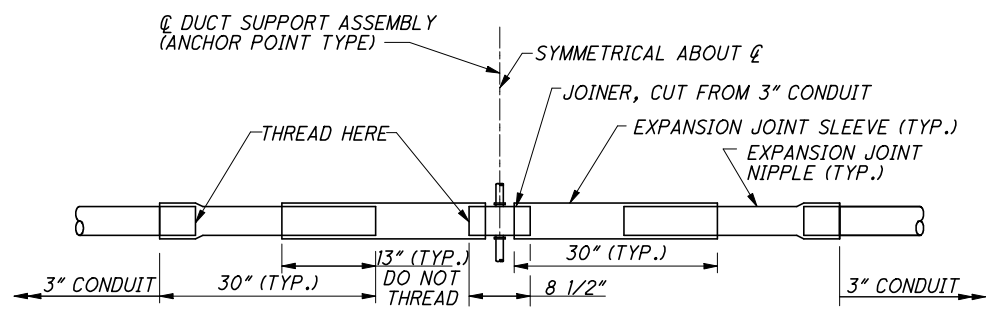


WALL MOUNTED CONDUIT
NOT TO SCALE

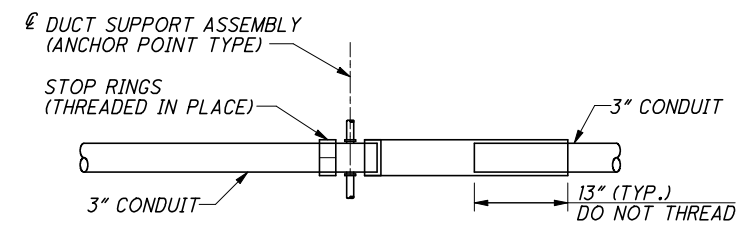


END PARAPET DETAIL
ELEVATION VIEW

TYPICAL SURVEILLANCE CONDUIT
TREATMENT AT END OF BRIDGE PARAPET



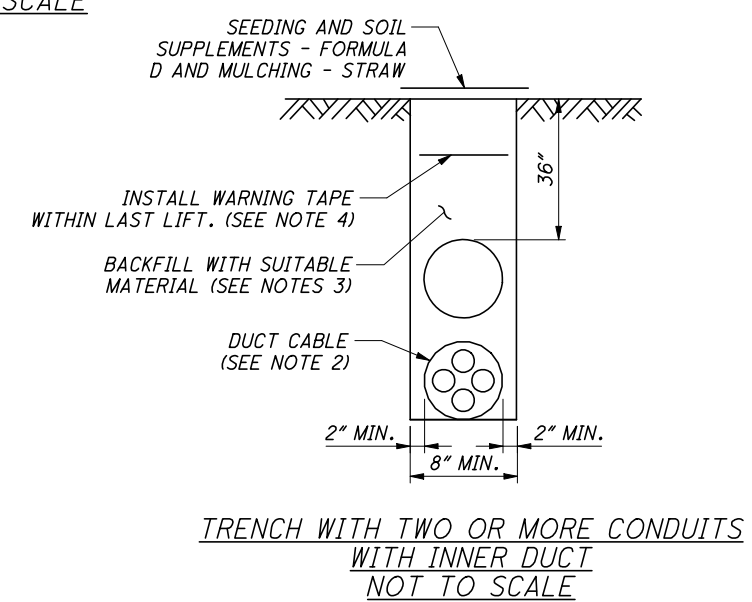
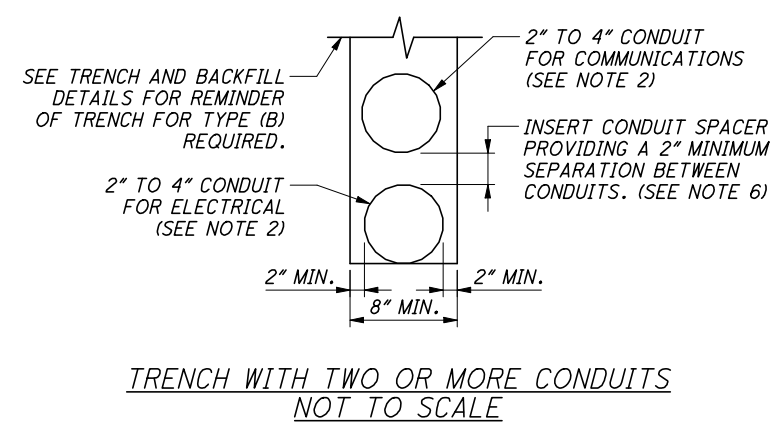
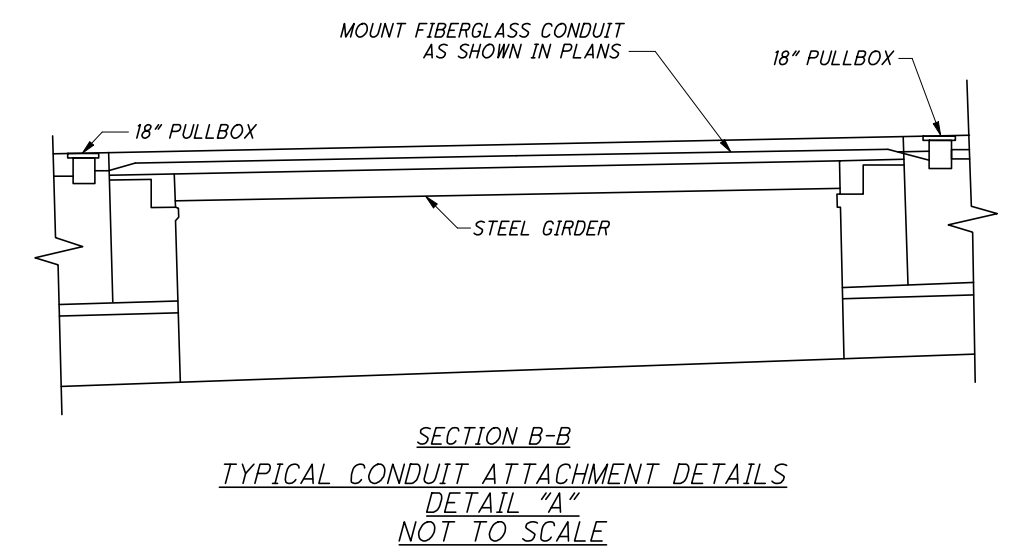
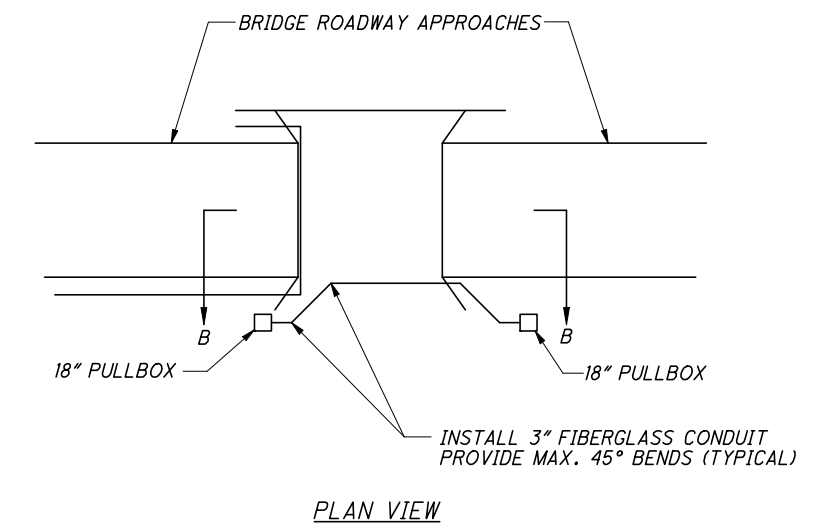
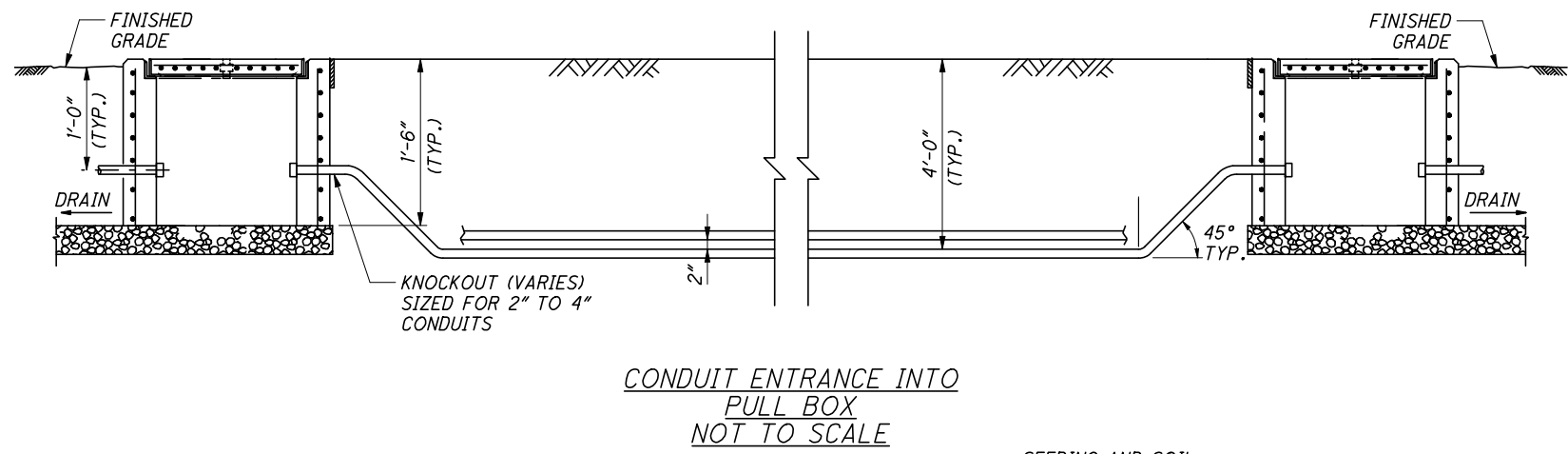
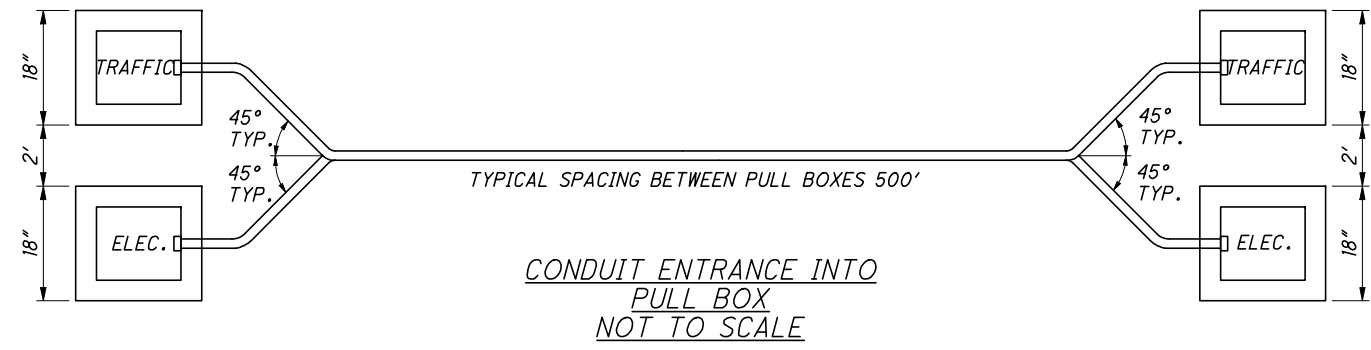
BACK-TO-BACK EXPANSION JOINT DETAIL



COMBINATION STOP RING & AND EXPANSION JOINT

TYPICAL EXPANSION JOINT DETAILS

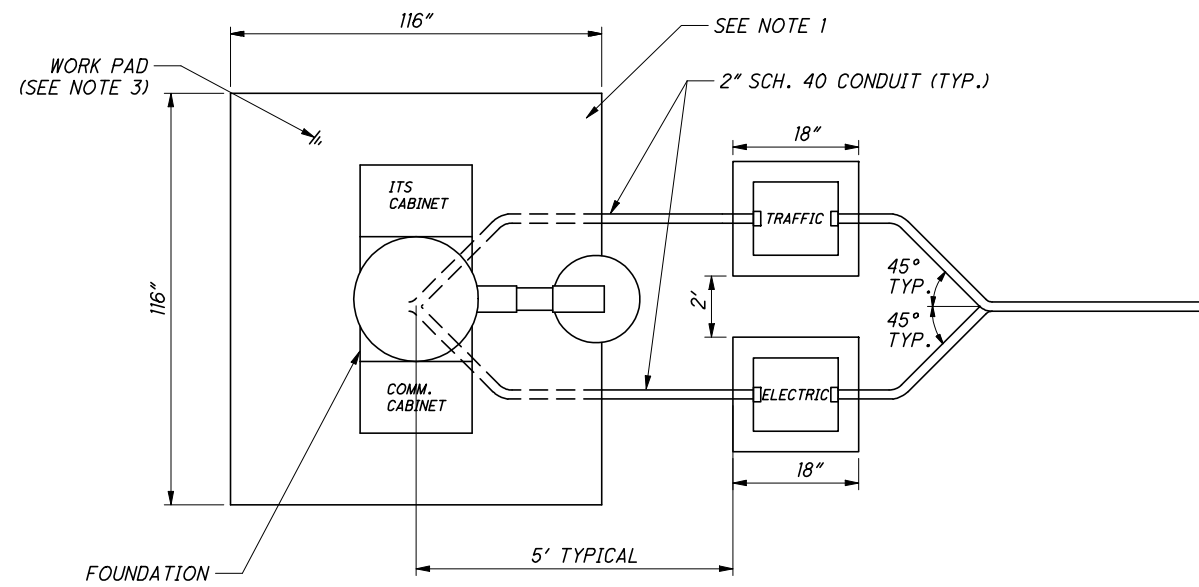
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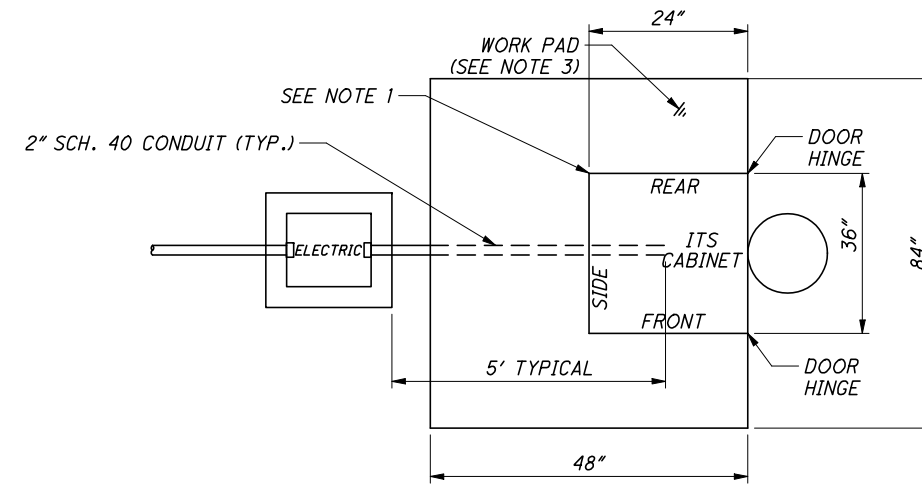
1. REMOVE AND STORE TOPSOIL FROM THE EXCAVATION. DISPOSE OF ALL UNSUITABLE MATERIAL BEFORE BACKFILLING.
2. CENTER THE CONDUIT IN THE TRENCH AND HOLD FIRMLY IN PLACE WHILE THE TRENCH IS BACKFILLED.
3. THE BACKFILL MATERIAL SHALL CONFORM TO ODOT ITEM 625 - TRENCHING (INCIDENTAL).
4. INSTALL A 4 MIL PLASTIC ORANGE WARNING TAPE 6" TO 8" BELOW SURFACE, (INCIDENTAL) FOR THE ENTIRE LENGTH OF THE TRENCH.
5. AFTER BACKFILL MATERIAL IS PLACED IN UNPAVED AREAS, SEED AND MULCH OVER TRENCHED AREA.
6. PROVIDE HIGH IMPACT CONDUIT SPACERS AT INTERVALS NOT GREATER THAN 10'. SPACERS ARE CONSIDERED INCIDENTAL TO THE CONDUIT ITEM AND WILL NOT BE PAID FOR SEPARATELY.

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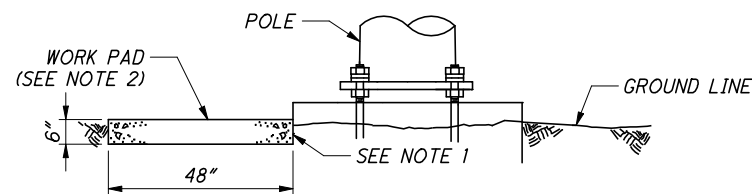
PLAN VIEW

CONCRETE PAD WITH CAMERA
AND JUNCTION BOXES
NOT TO SCALE



PLAN VIEW

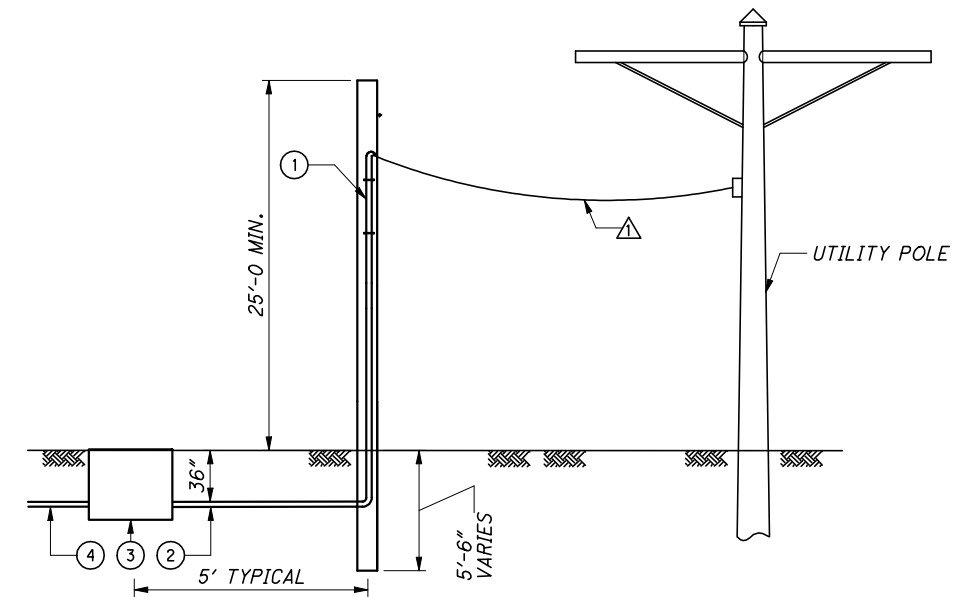
CONCRETE WORK PAD FOR
HAR OR VEHICLE DETECTOR
ASSEMBLY WITH CABINET
NOT TO SCALE



CONCRETE WORK PAD FOR HAR AND
VEHICLE DETECTOR ASSEMBLIES
NOT TO SCALE

NOTES

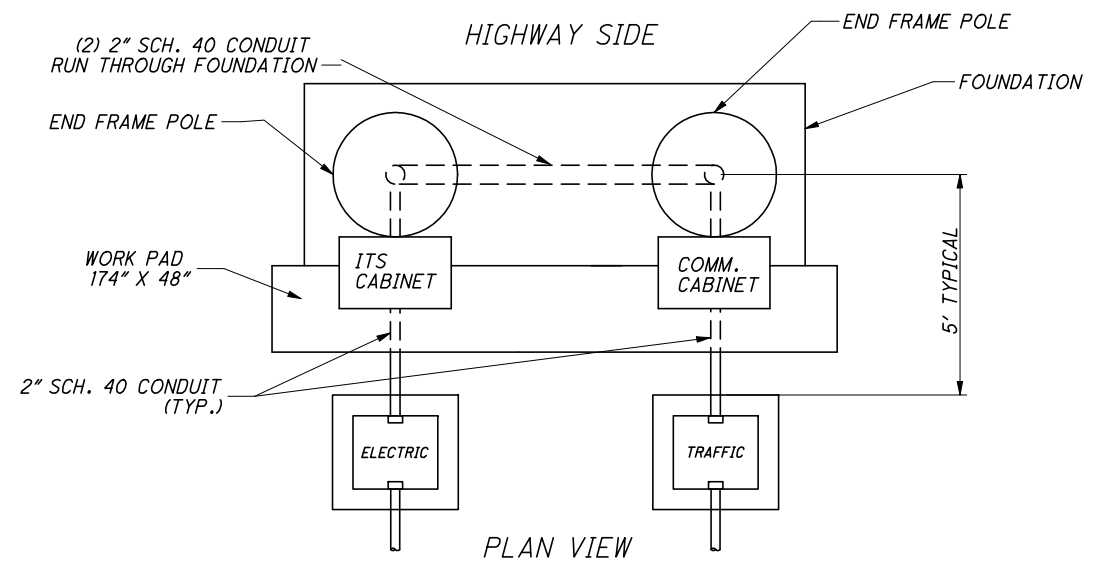
1. 1/2" PREFORMED JOINT FILLER AS PER 705.03 SHALL BE USED BETWEEN FOUNDATIONS AND ADJACENT PAVED AREAS.
2. A MINIMUM OF ONE 48" X 84" X 6" WORK PAD SHALL BE LOCATED AT GROUND LEVEL BELOW EACH POLE MOUNTED CABINET UNLESS LOCATED IN AN OTHERWISE PAVED AREA OR SHOWN IN THE PLAN VIEW. WHEN REQUIRED, THIS ITEM SHALL BE PAID FOR UNDER THE DEVICE TYPE. IN LEVEL AREAS, THE TOP OF THE PAD SHALL BE 1" ABOVE THE GROUND LINE. IN STEEPLY SLOPED AREAS, THE PAD'S LOCATION SHALL BE ADJUSTED TO PROVIDE ACCESS AND DRAINAGE WHILE COMPLYING WITH THE REQUIRED CABINET MOUNTING HEIGHT.
3. A 6" THICK WORK PAD WITH DIMENSIONS SHOWN ON DETAILS SHALL BE PROVIDED UNLESS IN AN OTHERWISE PAVED AREA. WHEN REQUIRED, THIS ITEM SHALL BE PAID FOR UNDER THE DEVICE TYPE. IN LEVEL AREAS, THE TOP OF THE PAD SHALL BE 1" ABOVE THE GROUND LINE. IN STEEPLY SLOPED AREAS, THE PAD'S LOCATION SHALL BE ADJUSTED TO PROVIDE ACCESS AND DRAINAGE.



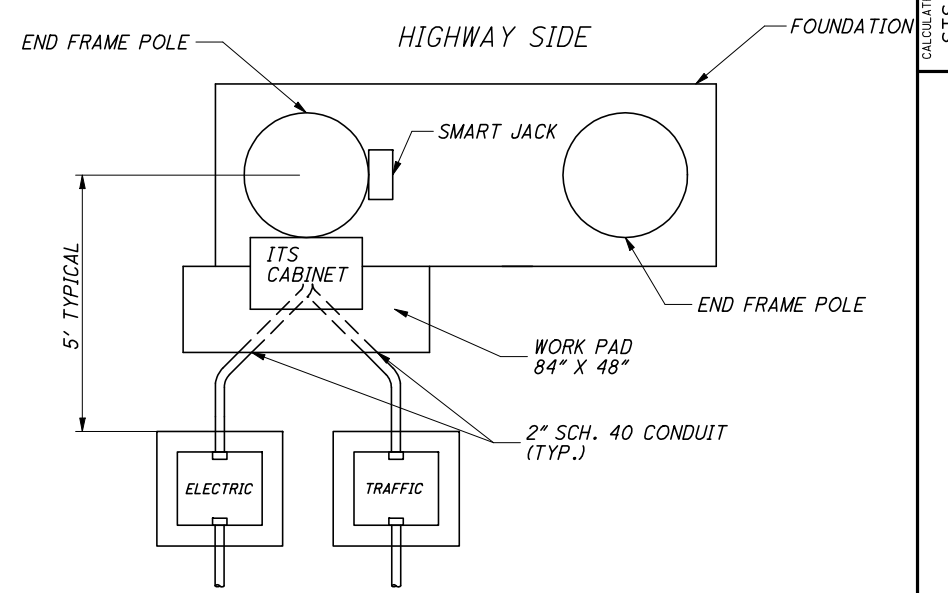
COMMUNICATION SERVICE AS PER PLAN
NOT TO SCALE

- △ COMMUNICATIONS CABLE FURNISHED AND INSTALLED BY UTILITY
- ① 2" CONDUIT RISER. SEE SHEET 14, DETAIL 4 - CONDUIT MOUNTING BRACKET FOR MOUNTING DETAILS.
- ② SCHEDULE 40 PVC CONDUIT IN TRENCH. CONDUIT SHALL BE 2" MINIMUM. TERMINATE THIS CONDUIT IN PULL BOX. CONDUIT INSTALLED AT A MINIMUM OF 36" BELOW GRADE.
- ③ CONCRETE PULL BOX, 18" WILL BE INSTALLED WITHIN 5 FT OF EVERY COMMUNICATION SERVICE.
- ④ CONDUIT PER PLAN BY CONTRACTOR.

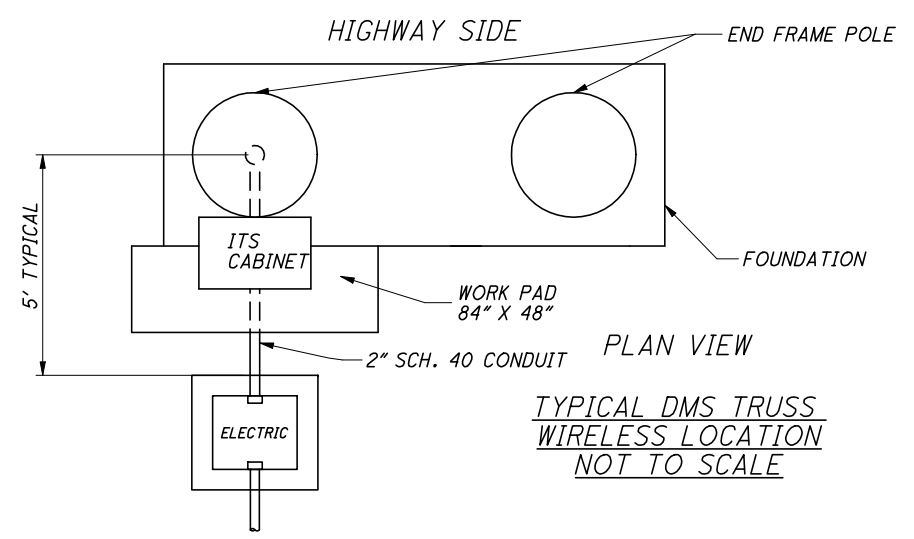
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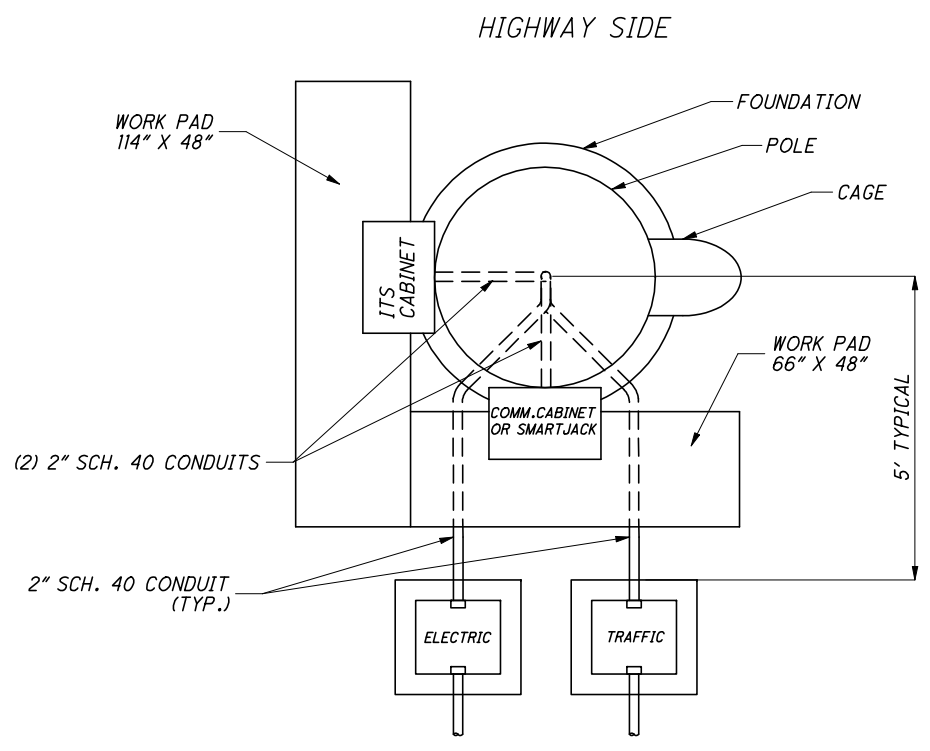
TYPICAL DMS TRUSS LOCATION WITH ETHERNET OVER COPPER NOT TO SCALE



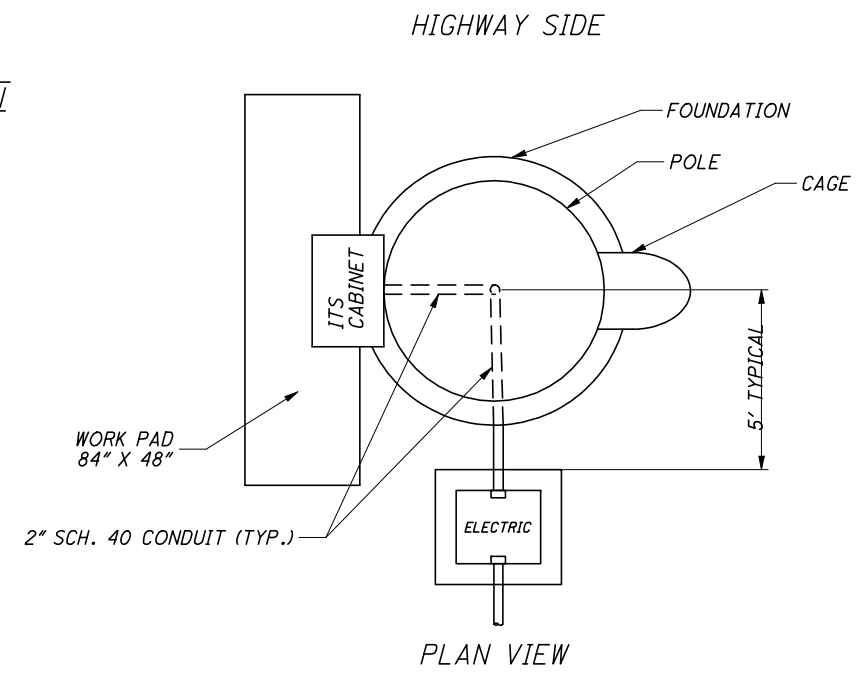
TYPICAL DMS TRUSS LOCATION WITH T-1 NOT TO SCALE



TYPICAL DMS TRUSS WIRELESS LOCATION NOT TO SCALE



TYPICAL DMS PEDESTAL LOCATION WITH ETHERNET OVER COPPER OR T-1 NOT TO SCALE



TYPICAL DMS PEDESTAL WIRELESS LOCATION NOT TO SCALE

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PULL BOX ORIENTATION FOR DMS LOCATIONS

STA-SUM ITS

LEGEND:

WORK BY UTILITY:

- ① AERIAL SERVICE ENTRANCE CABLE FURNISHED AND INSTALLED BY UTILITY.
- ② SPLICING OF UTILITY'S SERVICE ENTRANCE CABLE ONTO CONTRACTOR'S SERVICE ENTRANCE CABLE BY UTILITY.
- ③ TERMINATION OF CONTRACTOR SUPPLIED SERVICE ENTRANCE CABLE ONTO CONTRACTOR INSTALLED WOOD POLE/ H-FRAME.
- ④ EXISTING/PROPOSED ELECTRIC UTILITY POLE INSTALLED BY UTILITY.
- ⑤ EXISTING/PROPOSED ELECTRIC UTILITY METER BASE INSTALLED BY UTILITY
- ⑥ COMMUNICATIONS CABLE FURNISHED AND INSTALLED BY UTILITY

WORK BY CONTRACTOR:

- ① INSTALL 90° - 24" RADIUS PVC BEND, SCHEDULE 80.
- ② BURIED ELECTRIC WARNING RIBBON 12" ABOVE SERVICE LATERAL.
- ③ CONTRACTOR FURNISHED AND INSTALLED CLASS V WOOD POLE. MINIMUM 25' LONG. SEE TABLE ON THIS SHEET FOR SETTING DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL A WOOD POLE THAT IS SUFFICIENT IN LENGTH TO MEET MIN. ROADWAY CLEARANCE OF 20FT.
- ④ CONTRACTOR INSTALLED EQUIPMENT STAND PER ODOT STANDARD HL-40.20. CHANNEL STRUT ATTACHED TO POLE PER DETAIL 4 ON SHEET 14.
- ⑤ UTILITY METER. CONTRACTOR TO SUPPLY MANUAL BYPASS TYPE SOCKET.
- ⑥ FUSIBLE SERVICE DISCONNECT SWITCH. FUSE SIZES & SERVICE RATING SHOWN ON PLAN SHEETS.
- ⑦ CONCRETE PULL BOX, 18" WILL BE INSTALLED WITHIN 5 FT OF EVERY ELECTRICAL SERVICE. NO ELECTRICAL SPLICES PERMITTED.
- ⑧ 5/8" x 10' COPPER CLAD STEEL GROUNDING ROD ELECTRODE, APP. TOP OF GROUND ROD INSTALLED 30" BELOW GRADE AND AT LEAST 1' OFF EDGE OF POLE OR EQUIPMENT FOUNDATION. SEE DETAIL 'SITE GROUNDING.'
- ⑨ 2" WEATHERHEAD AND STRAIN RELIEF HARDWARE FURNISHED & INSTALLED BY CONTRACTOR.
- ⑩ 2" CONDUIT RISER. SEE DETAIL 4 - CONDUIT MOUNTING BRACKET FOR MOUNTING DETAILS.
- ⑪ SERVICE ENTRANCE CABLE IN CONDUIT BY CONTRACTOR. ALL SERVICE ENTRANCE CABLE SHALL BE #4-USE-5KV FOR 100A SERVICES AND #1/0 FOR 200A SERVICES OR AS REQUIRED BY UTILITY.
- ⑫ THREADED HUB TYPE CONDUIT COUPLING BETWEEN ENCLOSURES SIZED TO ACCOMADATE CONDUCTORS. SEE PLAN FOR WIRE REQUIREMENTS.
- ⑬ 1" SCHEDULE 80 PVC CONDUIT FOR GROUND.
- ⑭ 1-1/2" #4 XHHW-2 GROUNDING ELECTRODE CONDUCTOR IN CONDUIT TO DISCONNECT SWITCH NEUTRAL BUS.
- ⑮ GROUNDING ELECTRODE CONDUCTOR ATTACHED TO GROUNDING ELECTRODE AT LEAST 24" BELOW GRADE WITH GROUND CLAMPS SUITABLE FOR DIRECT BURIAL. FROM THE DISCONNECT SWITCH NEUTRAL BUS, THE GROUNDING ELECTRODE CONDUCTOR MUST ALWAYS BE DIRECTED DOWNWARD OR HORIZONTAL.
- ⑯ SCHEDULE 40 PVC CONDUIT IN TRENCH. CONDUIT SHALL BE 2" MINIMUM. TERMINATE THIS CONDUIT IN PULL BOX. CONDUIT INSTALLED A MINIMUM OF 36" BELOW GRADE.

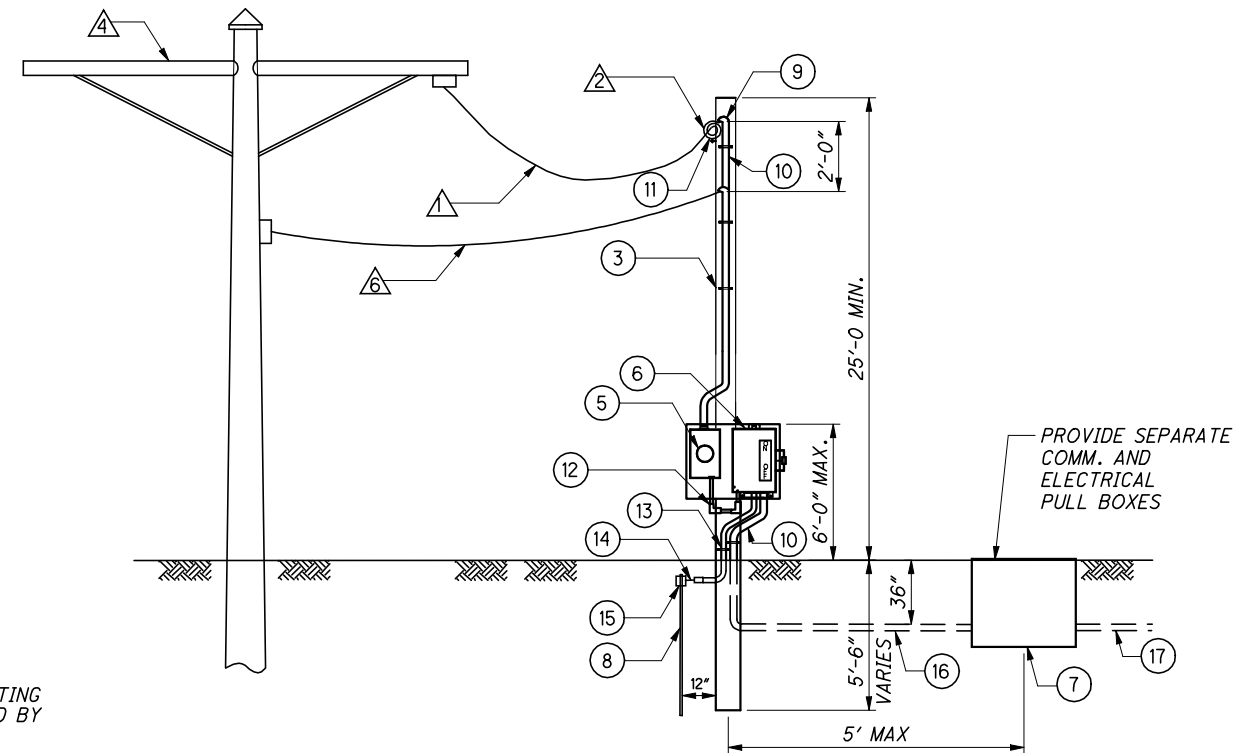
- ⑰ CONDUIT AND CABLE PER PLAN BY CONTRACTOR. NO SPLICES PERMITTED IN PULLBOX. STRIP CASING BACK FROM ELECTRICAL CABLE AND PULL CABLE THROUGH TO DISCONNECT.
- ⑱ 2" 725.04 CONDUIT INSTALLED A MINIMUM OF 36" BELOW GRADE. CONDUIT RUN IS CONTINUOUS BETWEEN EQUIPMENT STAND AND UTILITY POLE/TRANSFORMER OR AS INDICATED ON PLAN SHEETS.
- ⑲ CONTRACTOR SHALL INSTALL CONDUIT NO CLOSER THAN 2' FROM EDGE OF UTILITY TRANSFORMER PAD. APPROACH TO TRANSFORMER MUST BE COORDINATED WITH UTILITY.
- ⑳ NEMA 4X CIRCUIT BREAKER ENCLOSURE WITH TWO 2-POLE, 600V BOLT-ON TYPE CIRCUIT BREAKERS. ENCLOSURE SHALL BE SERVICE ENTRANCE RATED. PROVIDE ONE PADLOCK FOR EACH ENCLOSURE. PADLOCK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- ㉑ DO NOT EXTEND CONDUIT ABOVE THE SECONDARY OR NEUTRAL POSITION AT ANY TIME. CONDUIT SHALL MAINTAIN A MINIMUM CLEARANCE OF 6" BELOW THE SECONDARY OR NEUTRAL.

NOTES:

- 1. CONTRACTOR MUST COORDINATE WITH UTILITIES' FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING OF ALL UTILITIES, RELATED WORK, AND INSPECTIONS AS NECESSITATED BY THE PROJECT.
- 2. ALL WORK AND MATERIALS SHOWN ON ELECTRICAL SERVICE DETAILS FROM THE ELECTRIC UTILITY POLE TO THE DISCONNECT IS INCIDENTAL TO POWER SERVICE PAY ITEMS.
- 3. OHIO EDISON AND AEP CONDUIT SYSTEMS SHALL BE INSTALLED PER NEC AND LOCAL REQUIREMENTS.
- 4. ALL PROPOSED SERVICE TYPES AND LOCATIONS ARE SUBJECT TO APPROVAL FROM UTILITY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EQUIPMENT ACCORDING TO ENGINEER'S APPROVAL.

WOOD POLE SETTING DEPTH CHART

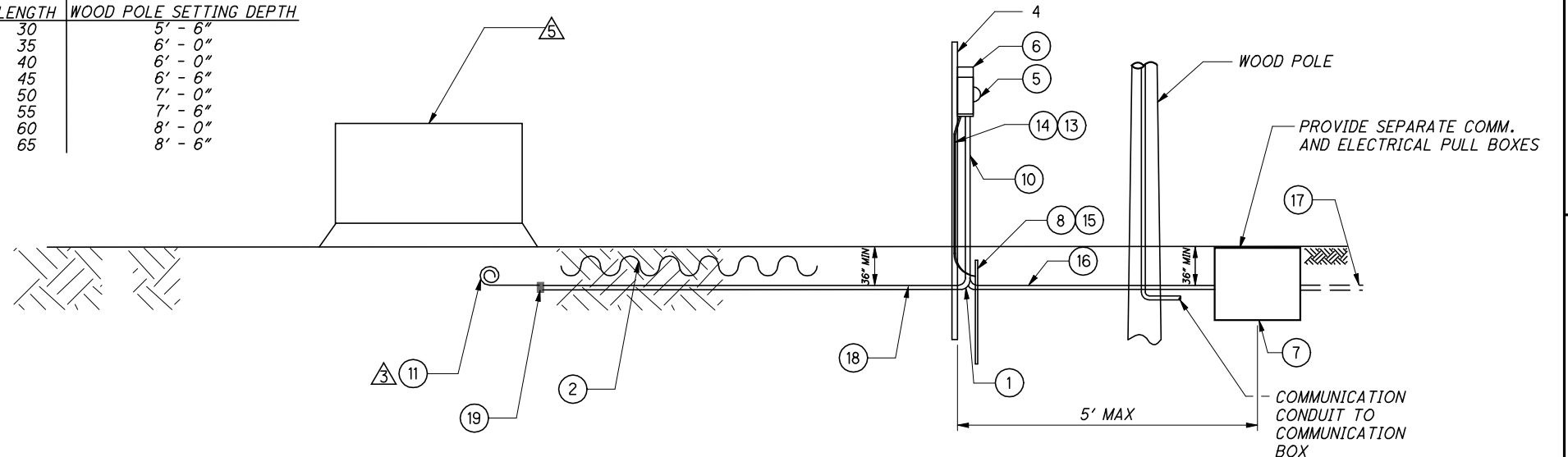
LENGTH	WOOD POLE SETTING DEPTH
30	5' - 6"
35	6' - 0"
40	6' - 0"
45	6' - 6"
50	7' - 0"
55	7' - 6"
60	8' - 0"
65	8' - 6"



POWER SERVICE AS PER PLAN A

DETAIL 1 POWER SERVICE, TYPE A, 240/120V 3 WIRE, 1 PHASE, PER PLAN

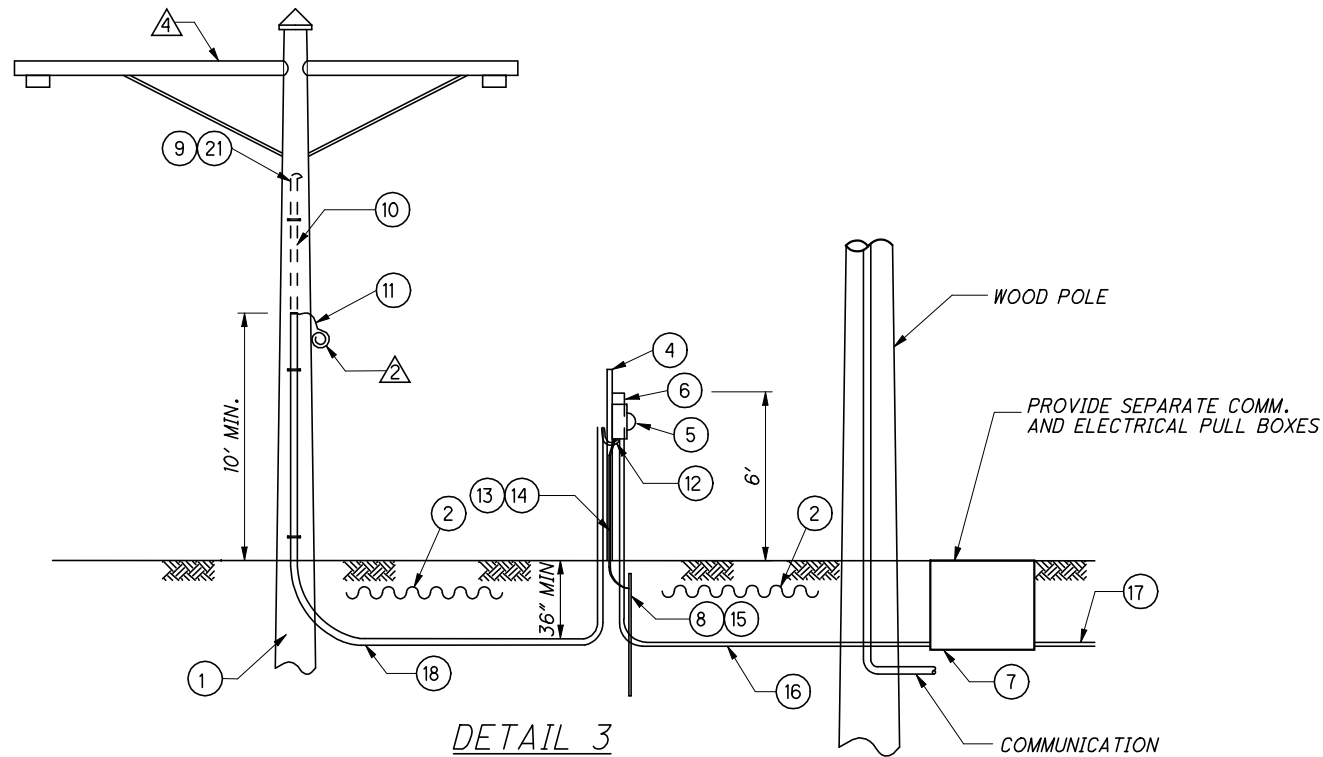
- * SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR MORE DETAILS.
- * 60A DISCONNECTS WILL BE FUSED AT 30A.
- * 100A DISCONNECTS WILL BE FUSED AT 80A.



POWER SERVICE AS PER PLAN C

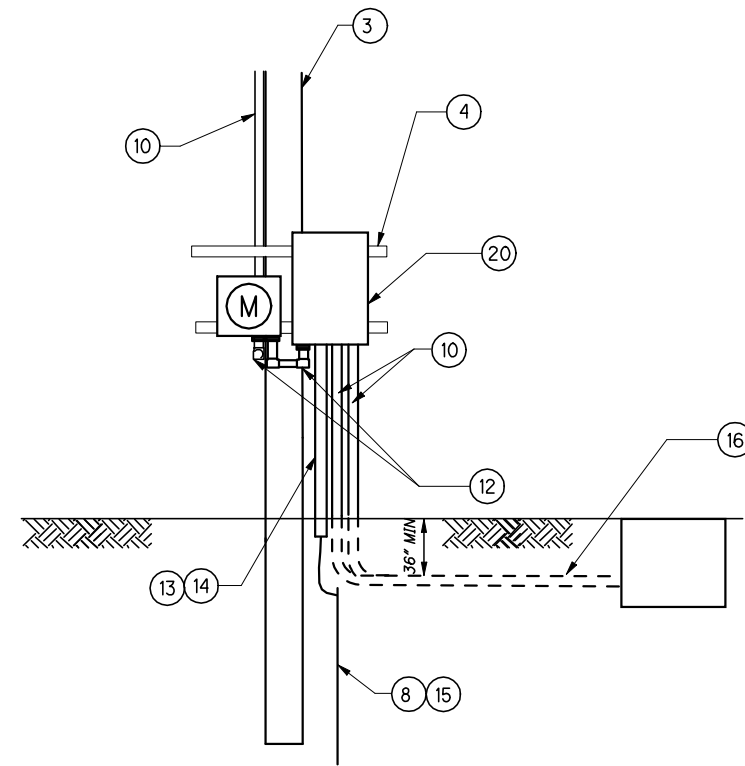
DETAIL 2 POWER SERVICE, TYPE B, 240/120V 3 WIRE, 1 PHASE, PER PLAN

- * SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS.
- * 30A DISCONNECTS WILL BE FUSED AT 30A.
- * 100A DISCONNECTS WILL BE FUSED AT 80A.



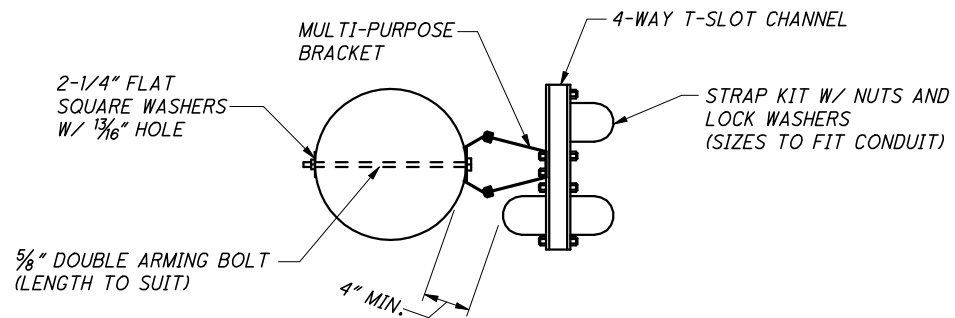
DETAIL 3
 POWER SERVICE AS PER PLAN D
 POWER SERVICE, TYPE C, 240/120V,
 3 WIRE, 1 PHASE, PER PLAN

- ** 200A SERVICE WITH TWO 100A CIRCUIT BREAKERS
- * SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS
- * 30A DISCONNECTS WILL BE FUSED @ 30A
- * 100A DISCONNECTS WILL BE FUSED @ 80A

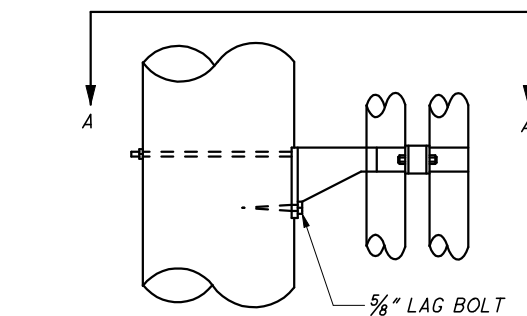


DETAIL 5
 POWER SERVICE, DUAL, 240/120V
 3 WIRE, 1 PHASE, PER PLAN

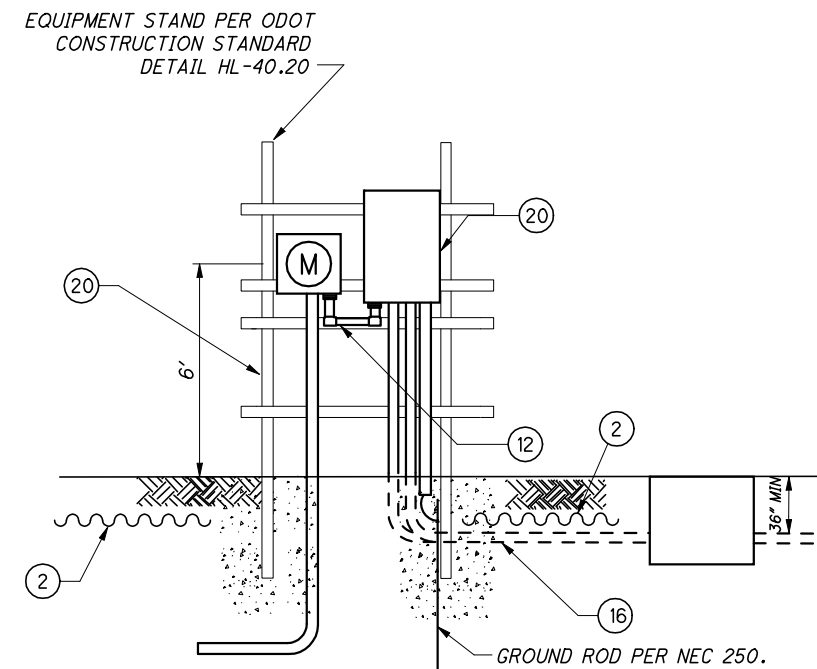
- * CIRCUIT BREAKERS SIZED PER PLANS
- * SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR DOUBLE ENCLOSURE DETAILS



ELEVATION A-A DETAIL 4



DETAIL 4
 CONDUIT MOUNTING BRACKET



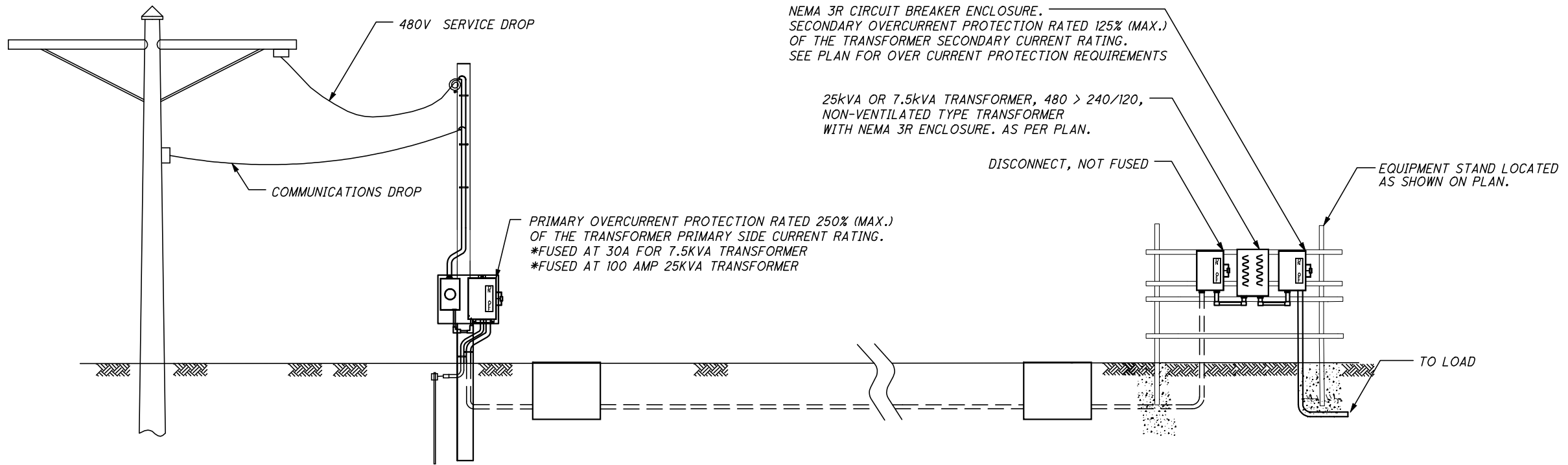
DETAIL 6
 POWER SERVICE, DUAL UNDERGROUND,
 240/120V, 3 WIRE, 1 PHASE, PER PLAN

- * CIRCUIT BREAKERS SIZED PER PLANS
- * SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS

CALCULATED
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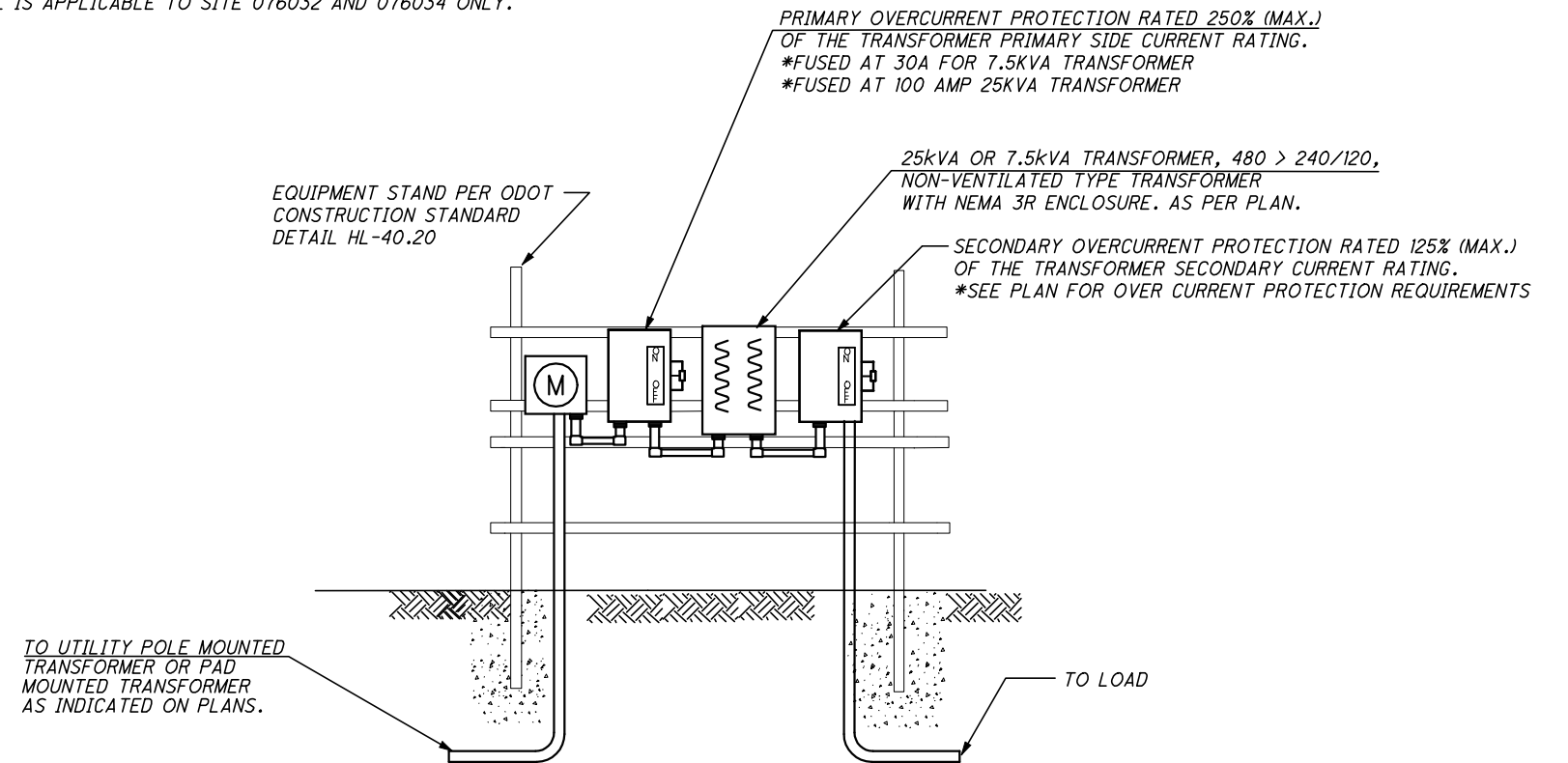
ELECTRICAL DETAILS
METER AND DISCONNECT STAND

STA-SUM ITS



DETAIL 8
POWER SERVICE AS PER PLAN F
POWER SERVICE, TYPE A, 480V
3 WIRE, 1 PHASE, PER PLAN

- * CIRCUIT BREAKERS SIZED PER PLANS
- * SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS
- * SEE DETAIL 6 ON TYPICAL SINGLE LINE DIAGRAM SHEET 16.
- * THIS DETAIL IS APPLICABLE TO SITE 076032 AND 076034 ONLY.



DETAIL 7
POWER SERVICE WITH TRANSFORMER

- * CIRCUIT BREAKERS SIZED PER PLANS
- * SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS

NOTES:

1. THE ELECTRIC POWER SERVICE W/ TRANSFORMER IS PER THE ELECTRICAL DETAILS FOR TYPE A, TYPE B, AND TYPE C POWER SERVICES WITH THE FOLLOWING EXCEPTIONS:
 - A. A TRANSFORMER AND DISCONNECT ARE ADDED AS SHOWN ON THIS DETAIL.
 - B. AN EQUIPMENT STAND SHALL BE USED FOR ALL ELECTRIC POWER SERVICE TYPES TO ACCOMMODATE ALL OF THE EQUIPMENT AS SHOWN ON THIS DETAIL.

CALCULATED
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ELECTRICAL DETAILS

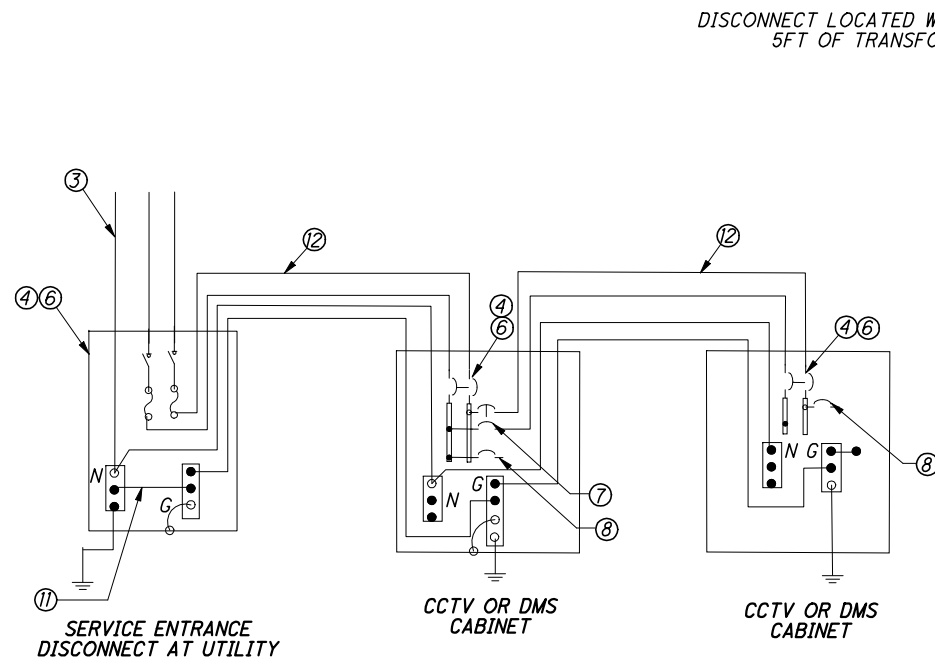
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ELECTRICAL LEGEND:

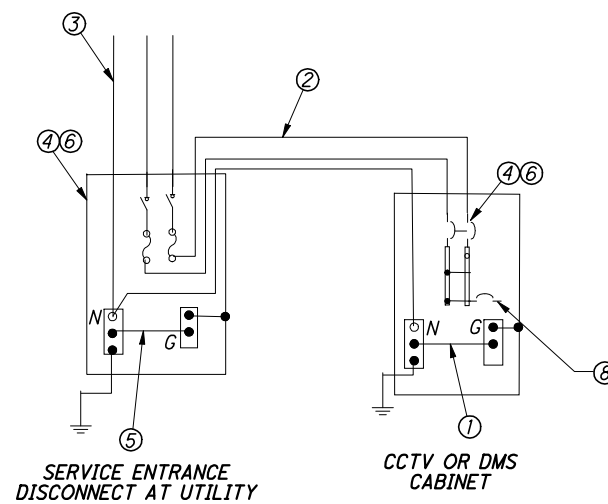
- ① IF A METAL CONDUIT OR GROUND IS BROUGHT FORWARD FROM THE SERVICE ENTRANCE, THEN NEUTRAL AND GROUND CANNOT BE BONDED AT DEVICE CABINET. IF GROUND IS BROUGHT FORWARD THEN SIZE THE GROUND THE SAME AS THE NEUTRAL CONDUCTOR. SEE 'CONTINUOUS METALLIC PATH BETWEEN DEVICES' DETAIL 1.
- ② FEEDER SIZED PER PLAN. NO EQUIPMENT GROUND AND NO METALLIC CONDUIT BROUGHT FORWARD FROM SERVICE ENTRANCE.
- ③ SERVICE ENTRANCE CONDUCTORS SIZED PER PLAN
- ④ FUSIBLE OR MAIN BREAKER DISCONNECT. OVERCURRENT PROTECTION DEVICES ARE AS SIZED PER PLAN. TYPICAL FUSE CONFIGURATIONS FOR 120/240V SERVICE:
30A FOR ONE CAMERA
80A FOR ONE DMS
80A FOR ONE DMS AND ONE CAMERA
100A FOR TWO DMS
- ⑤ NEUTRAL AND GROUND BONDED AT SERVICE ENTRANCE EQUIPMENT.
- ⑥ SERVICE ENTRANCE RATED DISTRIBUTION EQUIPMENT.
- ⑦ TWO POLE CIRCUIT BREAKER FOR FEEDERS ARE SIZED AS PER PLAN. TYPICAL CIRCUIT BREAKER CONFIGURATIONS FOR 120/240 SERVICE:
30A FOR ONE CAMERA
80A FOR ONE DMS
80A FOR ONE DMS AND ONE CAMERA
100A FOR TWO DMS
- ⑧ CIRCUIT BREAKERS FOR LOCAL EQUIPMENT ARE SIZED PER MANUFACTURER RECOMMENDATIONS
- ⑨ MULTIPLE MAIN BREAKER DISCONNECTS. CIRCUIT BREAKERS ARE AS SIZED PER PLAN. TYPICAL CIRCUIT BREAKER CONFIGURATIONS FOR 120/240V SERVICE:
30A FOR ONE CAMERA
80A FOR ONE DMS
80A FOR ONE DMS AND ONE CAMERA
100A FOR TWO DMS
REFER TO PLANS FOR EXCEPTIONS
- ⑩ NOTE NOT USED.
- ⑪ NEUTRAL AND GROUND ARE BONDED ONLY AT THE SERVICE ENTRANCE
- ⑫ FEEDER SIZED PER PLAN. EQUIPMENT GROUND BROUGHT FORWARD FROM SERVICE ENTRANCE AND SIZED THE SAME AS THE PHASE AND NEUTRAL CONDUCTORS. IF METALLIC CONDUIT IS USED, THEN MAY USE GROUNDING BUSHINGS ON BOTH ENDS OF THE CONDUIT IN LIEU OF A GROUNDING CONDUCTOR.
- ⑬ PRIMARY OVER CURRENT PROTECTION RATED 250% (MAX.) OF THE PRIMARY SIDE CURRENT RATING.
30A FOR 7.5 KVA TRANSFORMER
100 AMPS FOR 25 KVA TRANSFORMER.
- ⑭ SECONDARY OVER CURRENT PROTECTION RATED 125% (MAX.) OF THE SECONDARY SIDE CURRENT RATING. SEE PLANS FOR FUSE SIZES.
- ⑮ 480>240/120 XFRM LOCATED AT DMS SITE

NOTES:

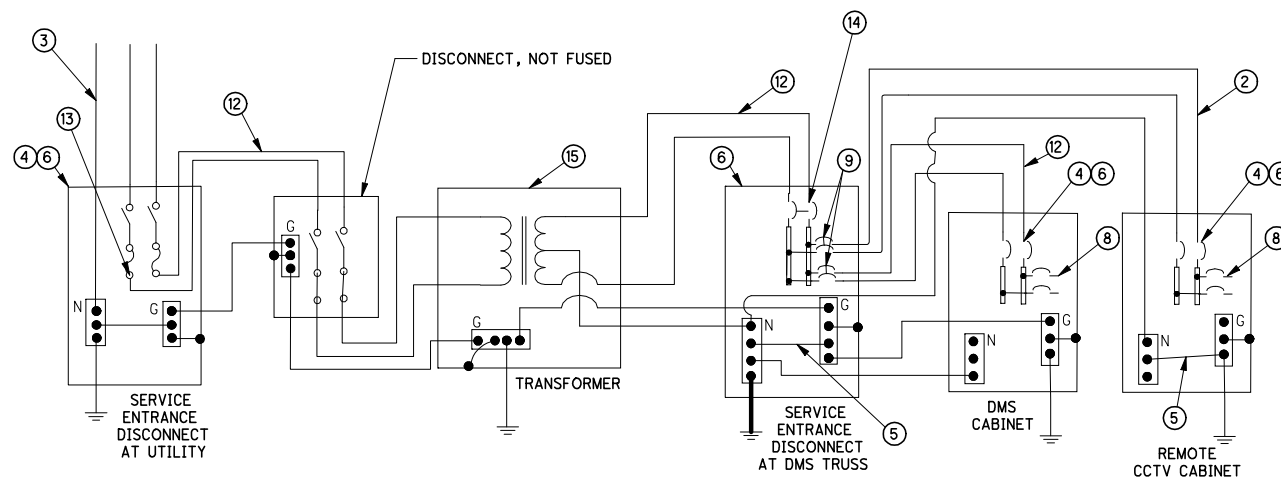
1. SEE PLAN SHEETS FOR SITE SPECIFIC ELECTRICAL EQUIPMENT RATINGS.
2. SURGE PROTECTION DEVICES NOT SHOWN HERE.
3. ALL CCTV OR DMS CABINETS ARE REMOTE FROM THE SERVICE ENTRANCE DISCONNECT AT UTILITY.



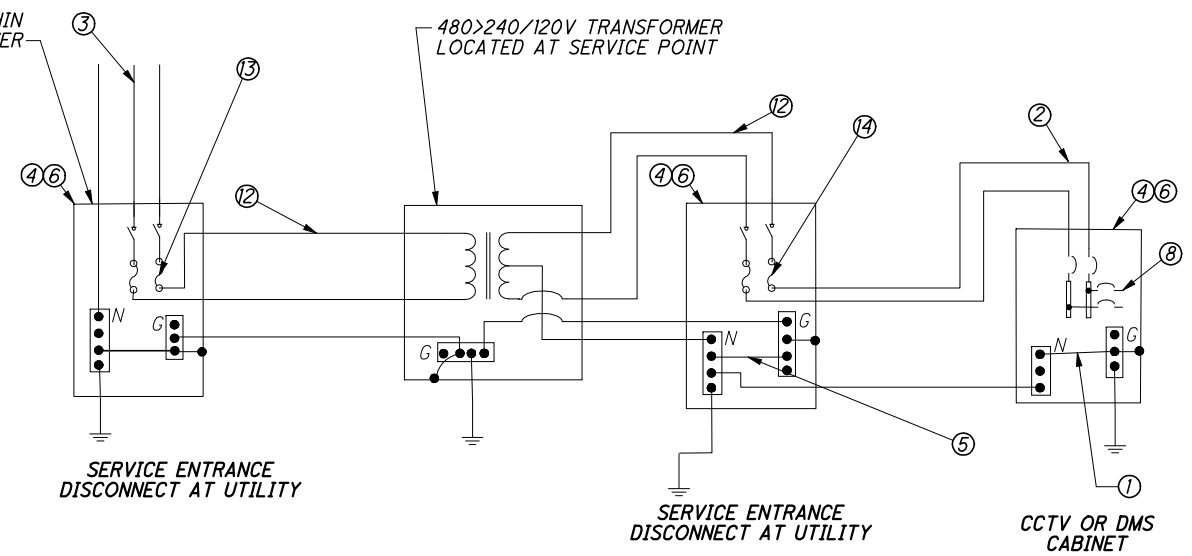
DETAIL 1 - CONTINUOUS METALLIC PATHS BETWEEN DEVICES



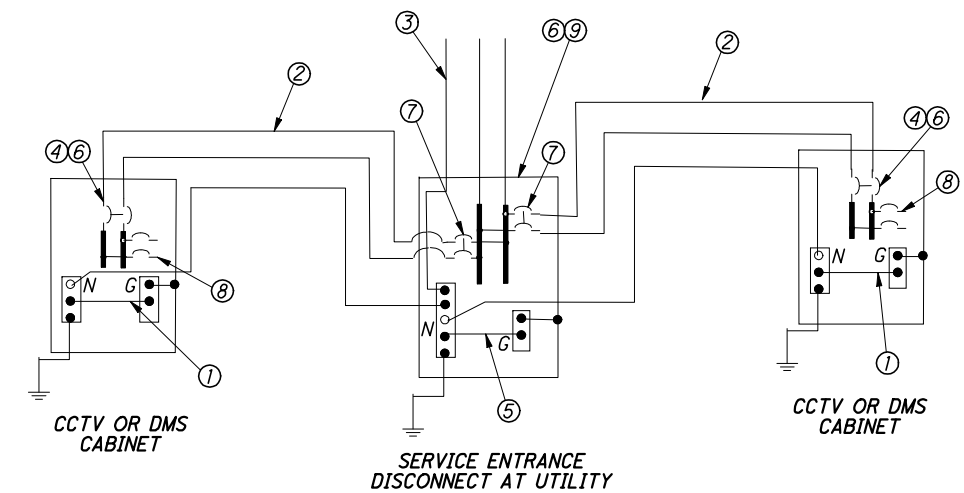
DETAIL 2 - TYPICAL WIRING SCHEMATIC FOR A SINGLE DEVICE SITE



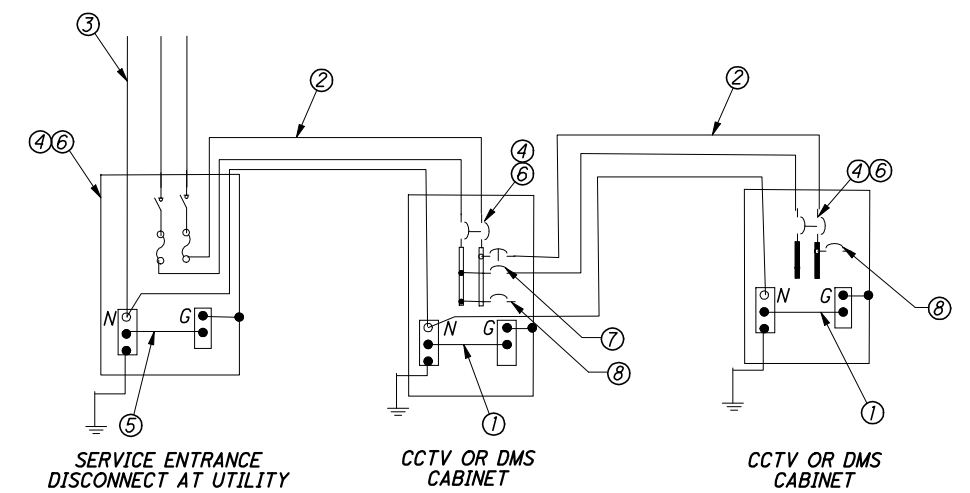
DETAIL 6 - WIRING SCHEMATIC FOR A DMS SITE WITH A TRANSFORMER LOCATED AT DMS



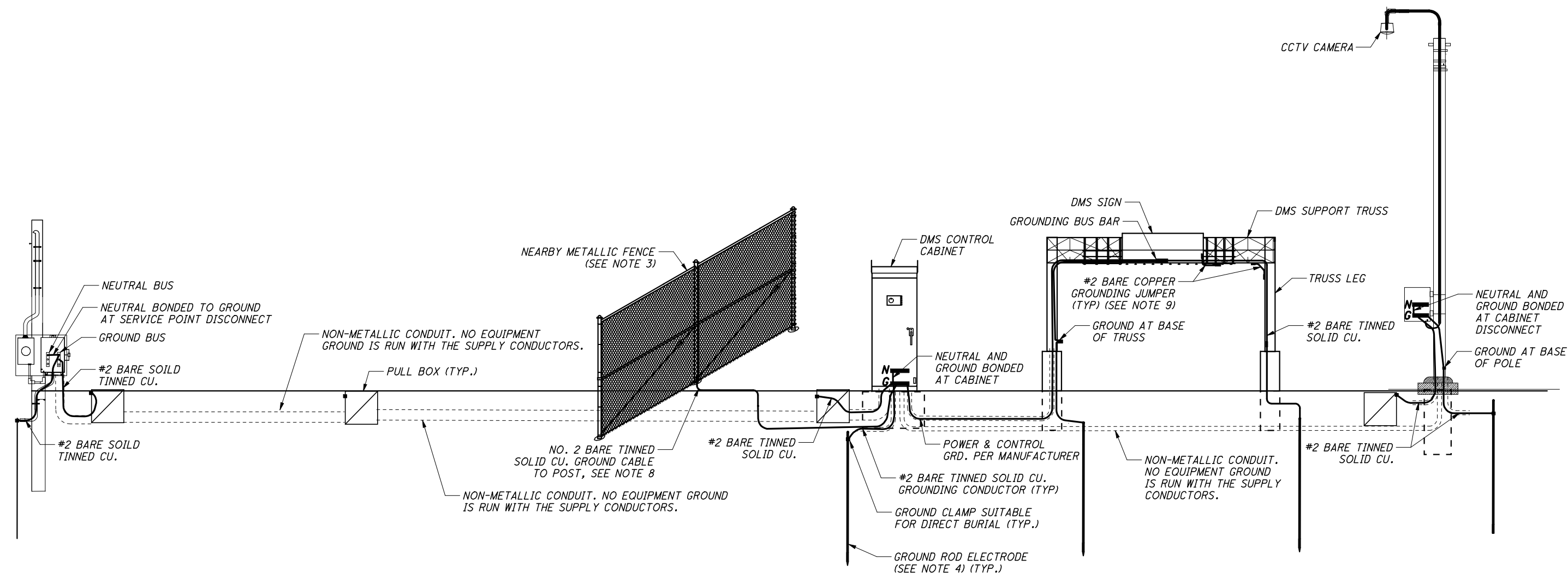
DETAIL 3 - WIRING SCHEMATIC FOR A DEVICE SITE WITH A TRANSFORMER



DETAIL 4 - TYPICAL WIRING SCHEMATIC FOR A MULTI-DEVICE SITE (CAMERA FED FROM SERVICE ENTRANCE)



DETAIL 5 - TYPICAL WIRING SCHEMATIC FOR A MULTI-DEVICE (CAMERA FED FROM DMS)



DMS SITE GROUND RING

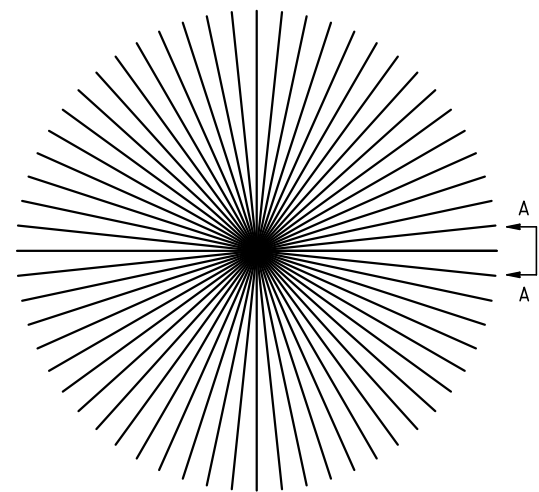
NOTES:

1. ADDITIONAL GROUND ROD ELECTRODES SHALL BE ADDED TO GROUNDING CONDUCTOR AS REQUIRED UNTIL RESISTANCE TO GROUND IS 5 OHMS OR LESS FOR DEVICE LOCATIONS AND 25 OHMS OR LESS AT POWER SERVICE AND PULL BOX. IF ADDITIONAL GROUND ROD ELECTRODES ARE REQUIRED IN ORDER TO ACHIEVE REQUIRED RESISTANCE THEY SHALL RADIATE OUT FROM EXISTING GROUND ROD ELECTRODES, SHALL BE CONNECTED WITH #2 BARE TINNED SOLID CONDUCTOR, AND SHALL BE 30' FROM CONNECTED GROUND ROD. ALL COMMUNICATION EQUIPMENT GROUNDING SITES SHALL BE TESTED FOR RESISTANCE TO GROUND USING THE THREE- POINT/FALL-OF-POTENTIAL TEST PER ANSI/IEEE STD 81. SEE GROUNDING SPECIFICATIONS.
2. GROUND ROD ELECTRODES SHALL NOT BE ROUTED THROUGH FOUNDATIONS.
3. FENCES AND OTHER METALLIC STRUCTURES WITH PATHS TO GROUND SHALL BE CONNECTED TO THE GROUNDING CONDUCTOR IF THEY ARE LOCATED WITHIN 10' OF THE GROUNDING ELECTRODE SYSTEM OR ANY OBJECT GROUND TO THE GROUNDING ELECTRODE SYSTEM. SEE STANDARD CONSTRUCTION DRAWING HL-50.11.
4. GROUND ROD ELECTRODES SHALL BE BURIED TO A MINIMUM DEPTH OF 36 INCHES BELOW FINISHED GRADE, WHERE POSSIBLE.
5. CCTV CAMERA AND ASSOCIATED PULL BOX SHALL BE CONNECTED TO THE DMS SITE GROUND RING ONLY WHEN EITHER THE DMS TRUSS OR THE DMS CONTROL CABINET IS LOCATED CLOSER TO THE BASE OF THE CCTV POLE THAN THE LENGTH OF THE CCTV POLE.
6. ALL EQUIPMENT GROUNDS SHALL BE PROPERLY CONNECTED TO A CHASSIS; ALL PAINT AND OTHER COATINGS, INCLUDING GALVANIZATION, SHALL BE REMOVED PRIOR TO TERMINATION OF A GROUND. AFTER THE GROUND IS TERMINATED A NON-OXIDIZING COATING SHALL BE PAINTED OVER THE EXPOSED METAL SURFACES.
7. GROUNDING ELECTRODE SYSTEM CONNECTIONS TO FENCING SHALL BE MADE USING HEAVY DUTY TINNED LISTED PIPE CLAMPS DESIGNED FOR GROUNDING AND STAINLESS STEEL HARDWARE. SEE STANDARD CONSTRUCTION DRAWING HL- 50.11.
8. ALL GROUNDING DIAGRAMS ARE SCHEMATIC ONLY.
9. ALL METALLIC MEMBERS OF THE DMS TRUSS AND THE DMS SIGN WITHIN 6 FEET OF EACH OTHER SHALL BE BONDED TOGETHER. WELDS SHALL BE CONSIDERED AN ACCEPTABLE BONDING METHOD. U-BOLT CONNECTIONS SHALL NOT BE CONSIDERED AN ACCEPTABLE BONDING METHOD.
10. AT LEAST AN 8 INCH MINIMUM BENDING RADIUS SHALL BE MAINTAINED ON ALL GROUNDING ELECTRODE CONDUCTORS. THE ANGLE OF ANY BEND SHALL NOT BE LESS THEN 90°.
11. GROUNDING CONDUCTORS SHALL ALWAYS ROUTE AS STRAIGHT AS POSSIBLE. "U" FORM JUMPERS SHALL BE ACCEPTABLE ONLY FOR GATES AND DOORS.
12. THE QUANTITY OF GROUNDING ELECTRODE CONDUCTORS CONNECTED TO A GROUND ROD ELECTRODE SHALL BE LIMITED TO FOUR.
13. WHENEVER POSSIBLE, GROUND ROD ELECTRODES SHALL BE INSTALLED NO CLOSER THAN 16.5' FROM A FOUNDATION.
14. SEE SHEET 19 FOR DETAILED NEUTRAL AND EQUIPMENT GROUND CONDUCTOR INSTALLATION REQUIREMENTS.
15. GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH. SPLICING SHALL BE PERMITTED ONLY BY IRREVERSIBLE COMPRESSION-TYPE CONNECTORS LISTED AS GROUNDING AND BONDING EQUIPMENT OR BY EXOTHERMIC WELDING PROCESS.

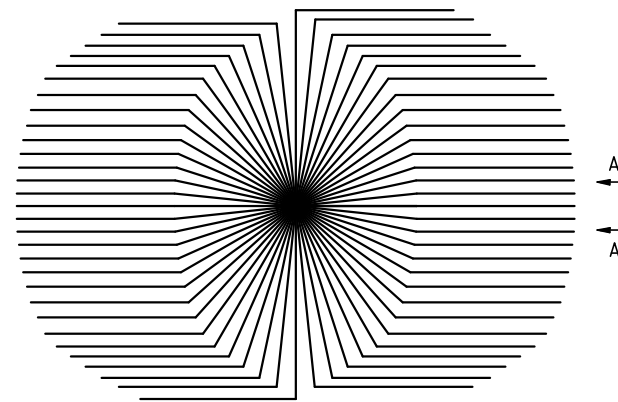
SITE GROUNDING

STA-SUM ITS

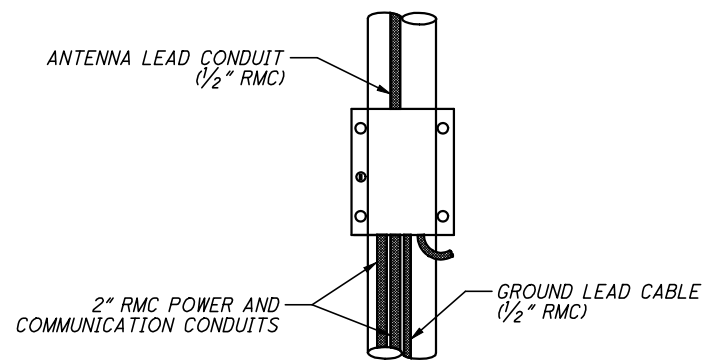
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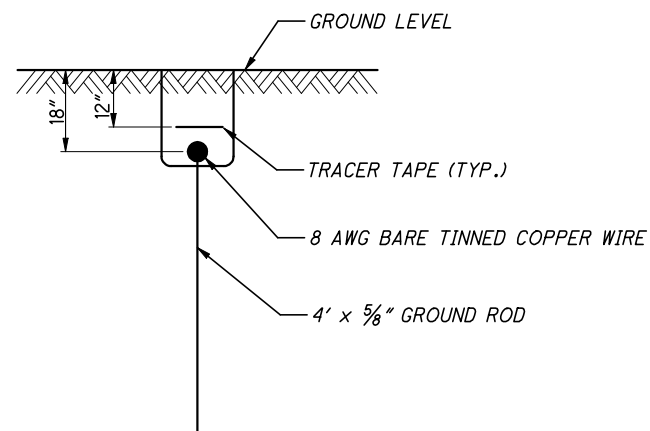
RADIAL PATTERN
FOR GROUND SYSTEM
NOT TO SCALE



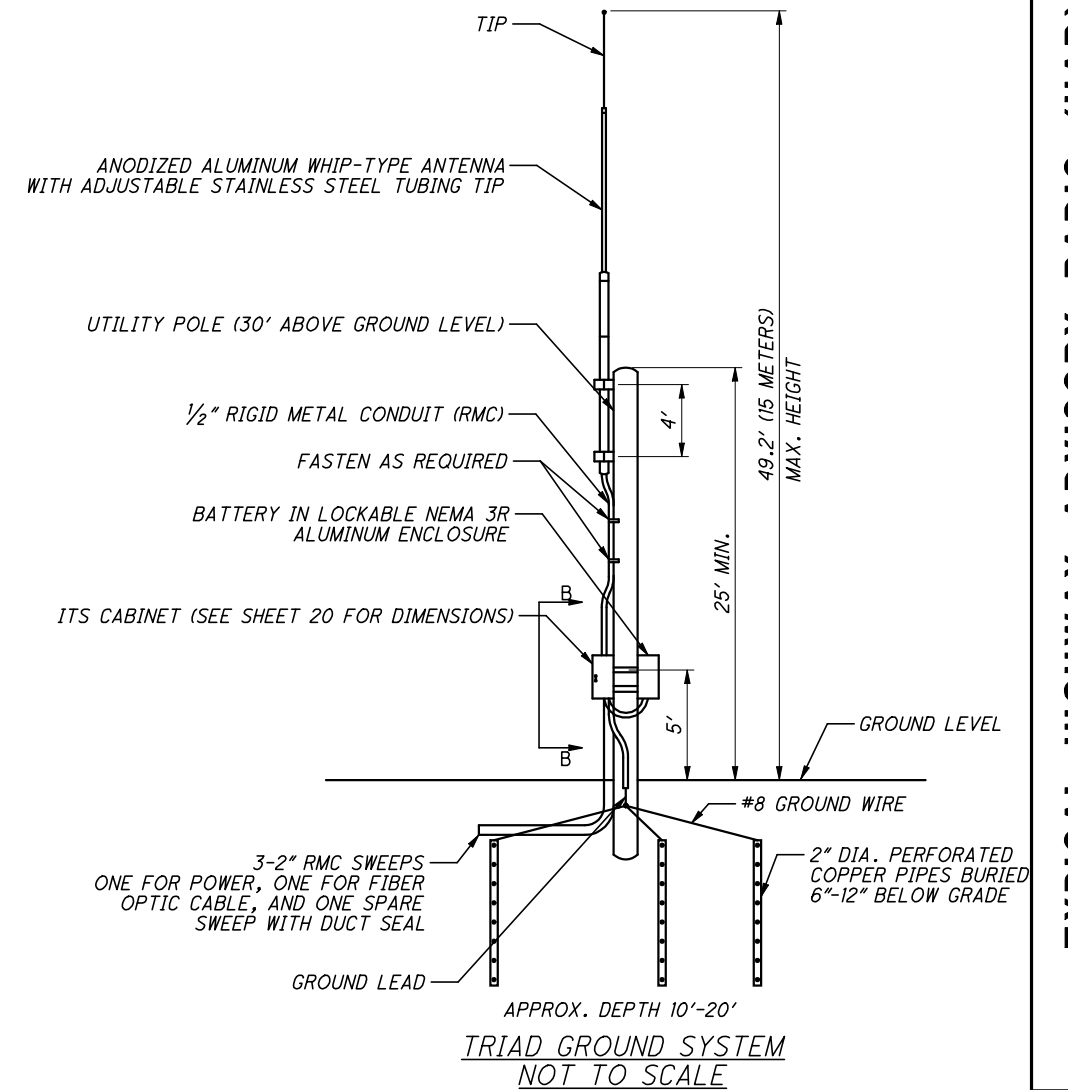
ALTERNATE RADIAL PATTERN
FOR GROUND SYSTEM
NOT TO SCALE



SECTION B-B
NOT TO SCALE

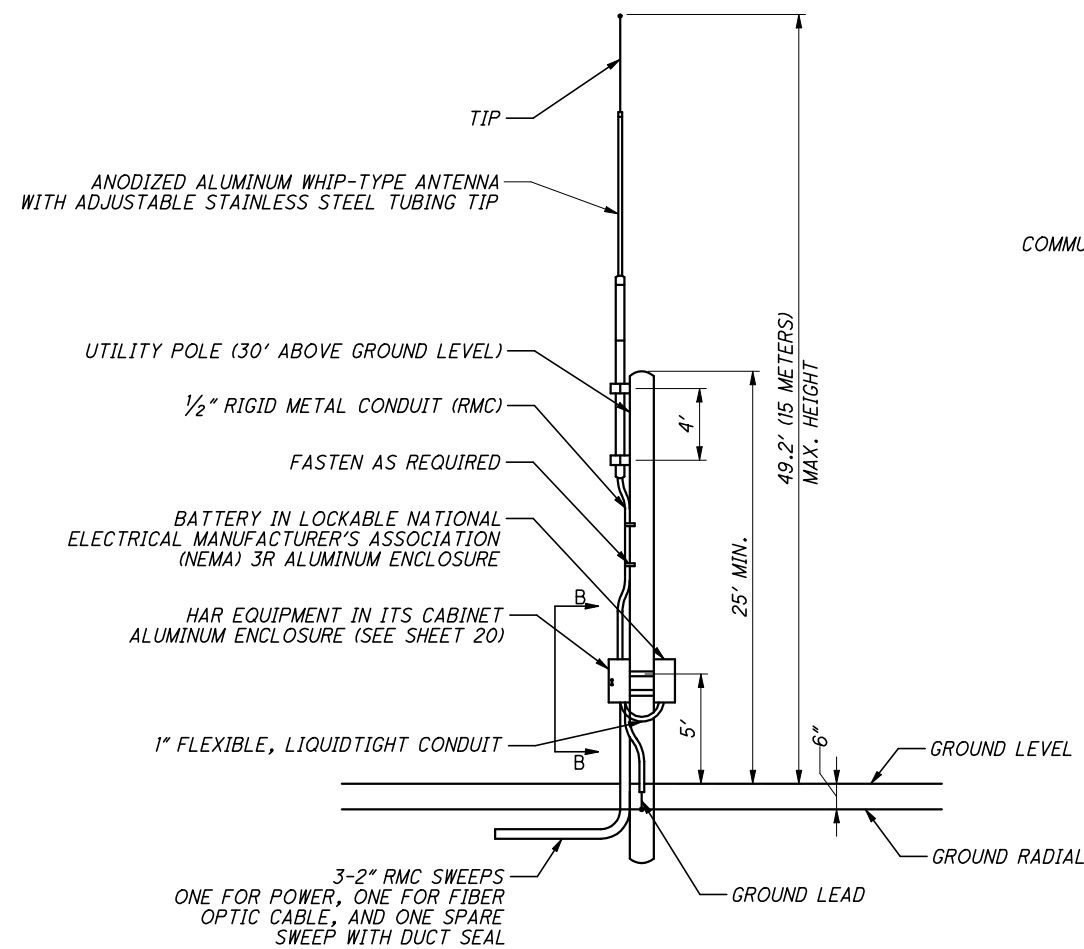


SECTION A-A
NOT TO SCALE



NOTES:

1. CONTRACTOR HAS OPTION FOR PROVIDING RADIAL PATTERN GROUND SYSTEM.



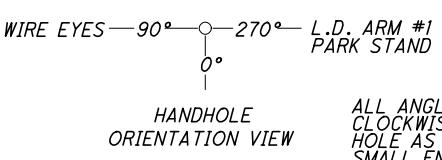
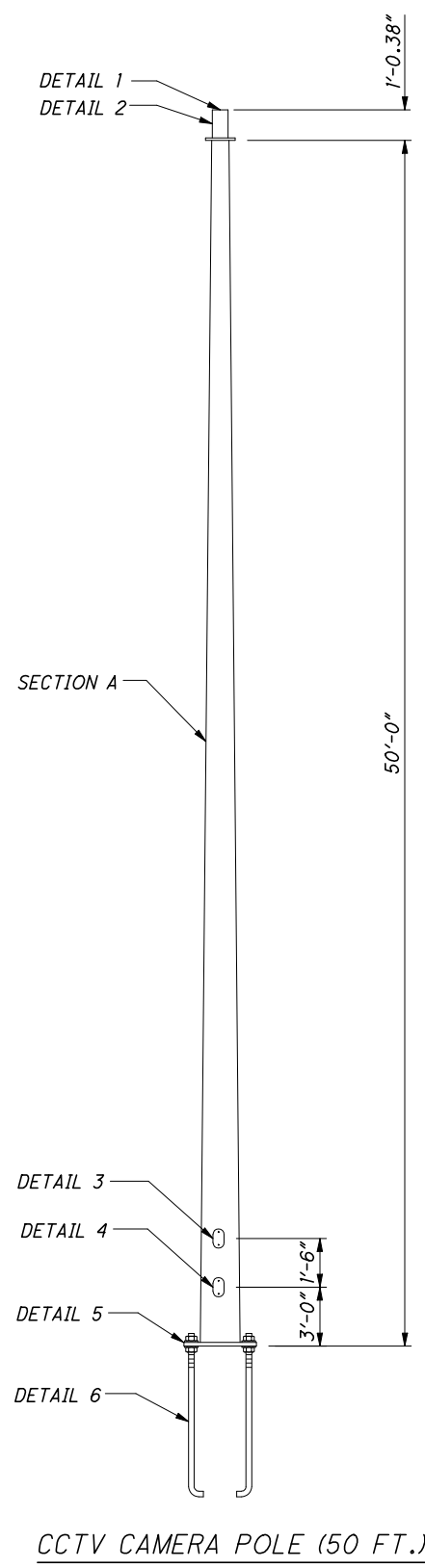
HAR TRANSMITTER ASSEMBLY
ELEVATION
NOT TO SCALE

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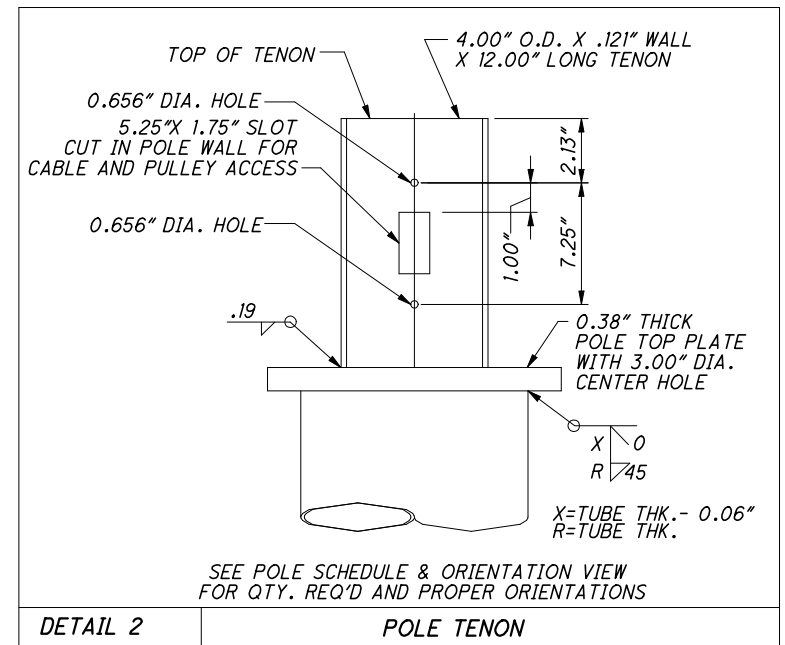
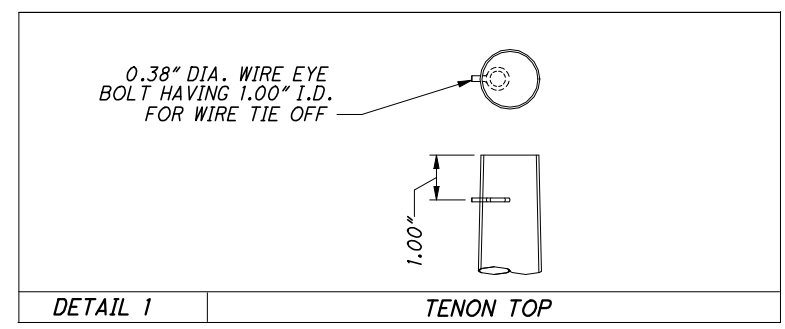
CALCULATED
STS
CHECKED
JDG

TYPICAL HIGHWAY ADVISORY RADIO (HAR) DETAILS

STA-SUM ITS

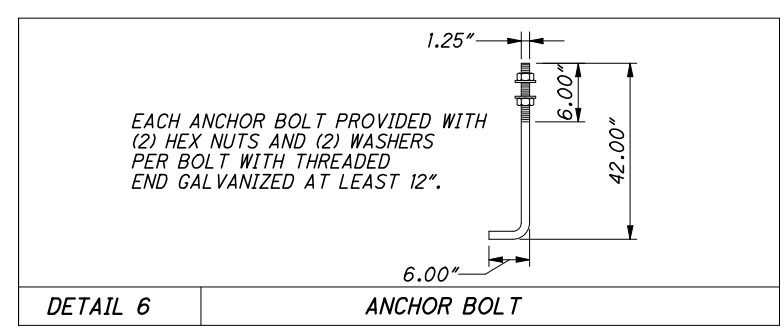
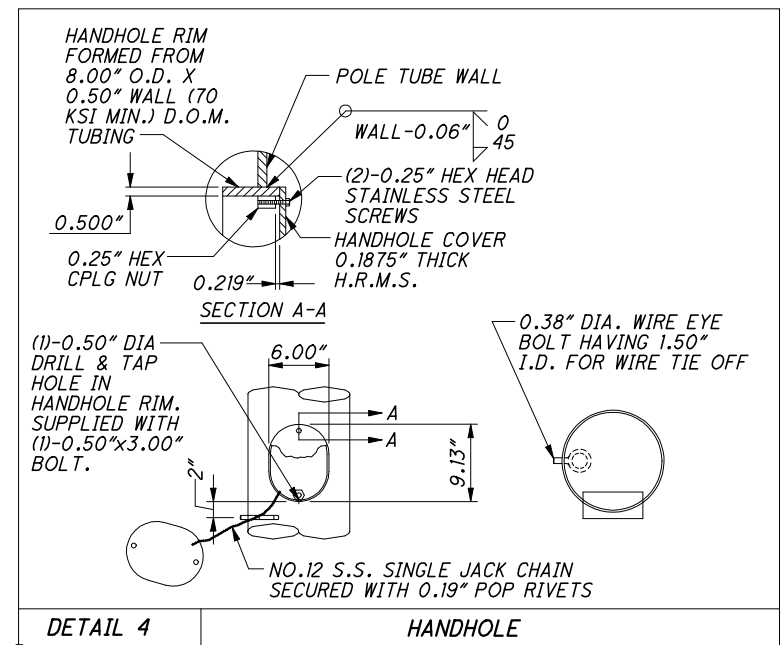
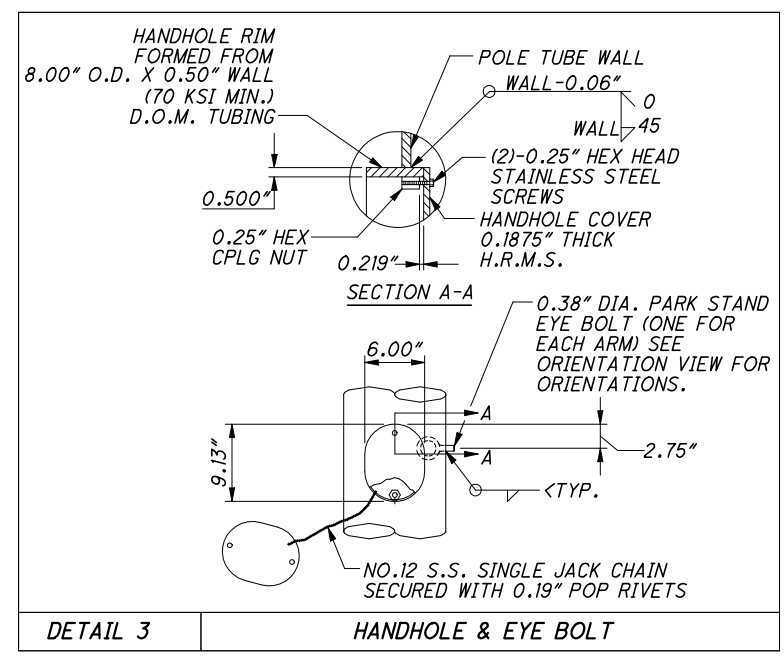
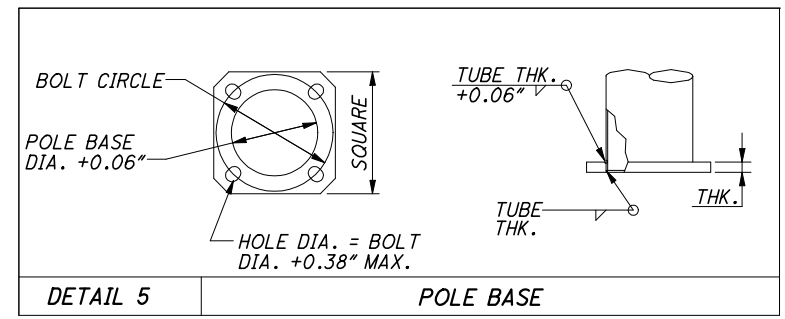


- NOTES:**
1. CONTRACTOR SHALL PROVIDE THE DETAILS OF A (2 PIECE) 70' CCTV POLE AND FOUNDATION FOR REVIEW AND APPROVAL BY THE ENGINEER.
 2. POLE ORIENTATION TO BE DETERMINED BY THE ENGINEER.
 3. THIS SHEET IS INCLUDED TO SHOW TYPICAL INFORMATION TO BE PROVIDED BY THE CONTRACTOR FOR A 70' CAMERA POLE DETAIL



MATERIAL DATA

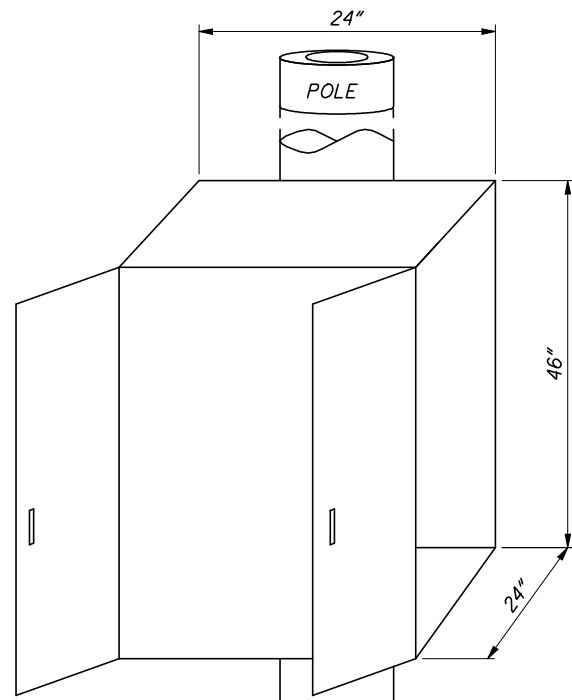
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFTS	A595 GR.A	55
BASE PLATES	A36	36
POLE TOP PLATE	A36	36
TENON - C.D.S. TUBING	----	42
ANCHOR BOLTS	F1554 GR.55	55
GALVANIZING - STRUCTURE	A123	--
GALVANIZING - HARDWARE	A153	--



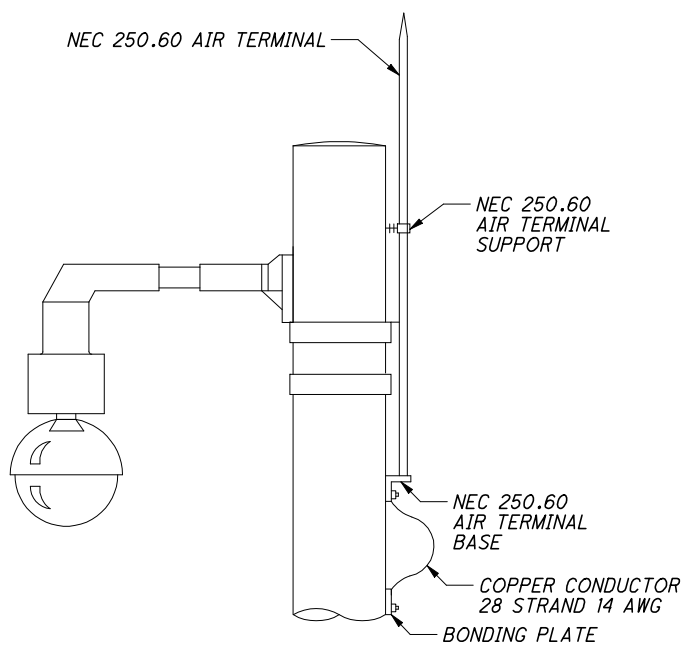
POLE DATA

ITEM	QTY.	DESIGNATION EPA/MASS (FT)/(LB)	HEIGHT (FT)	NO. L.D. ARMS REQ'D	TUBE					POLE BASE				
					SECTION	BASE DIAMETER (IN)	TOP DIAMETER (IN)	LENGTH (FT)	GAUGE OR THICK	MINIMUM SLIP LENGHT	SQUARE (IN)	BOLT CIRCLE DIA (IN)	THICK (IN)	BOLT HOLE DIA. (IN)
1	2	AHM050-SPCL (GV) 2.8/120(LD+CAMERA) 7.9/150(PANEL BOX)	50.00	1	A	18.00	6.00	50.00	5 GA	N/A				1.563

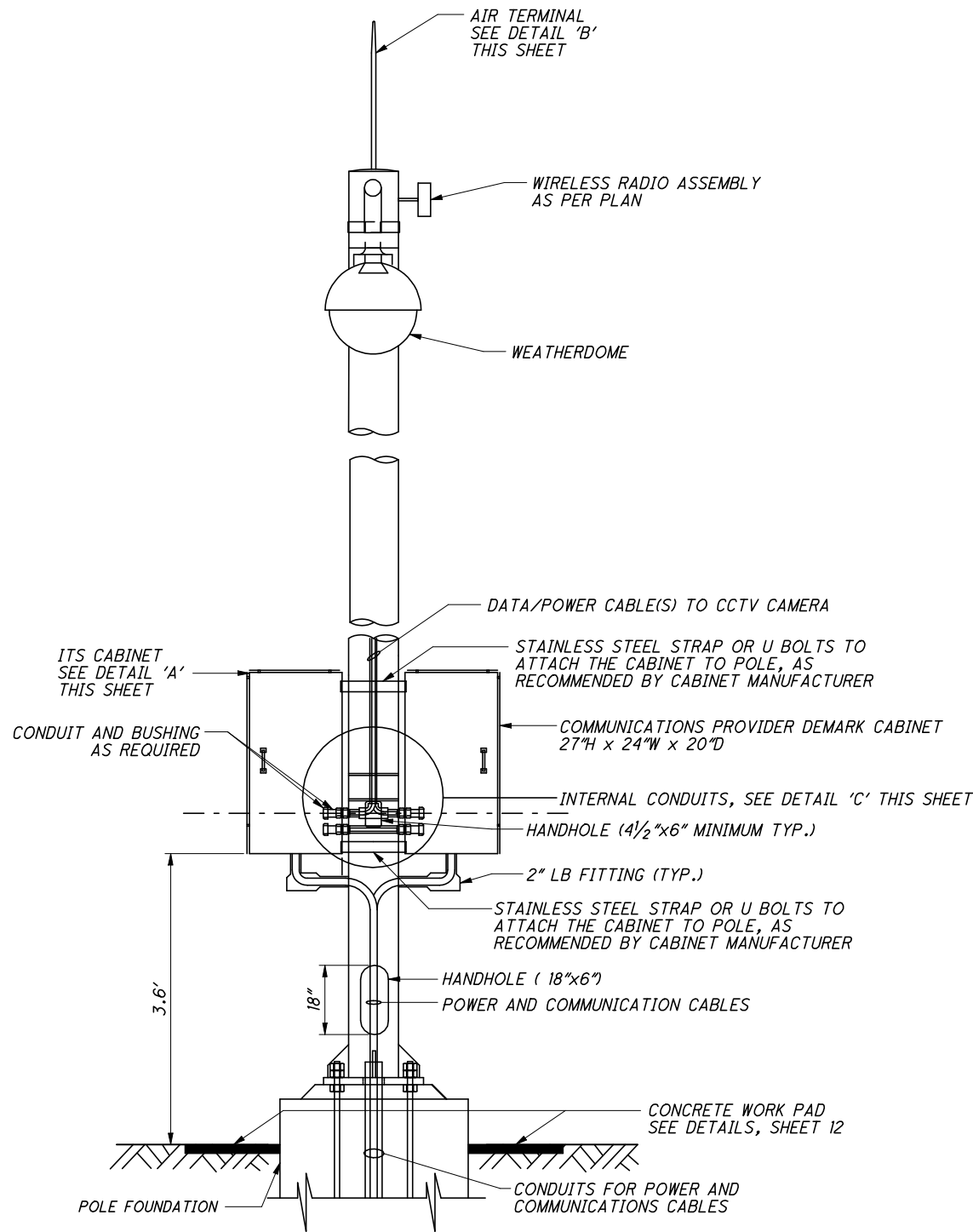
MAXIMUM HORIZONTAL DEFLECTION IS 1" FOR A SUSTAINED 30 MPH WIND VELOCITY W/NO GUST
LOADING AND ALLOWING STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS."



DETAIL 'A'
ITS CABINET
NOT TO SCALE



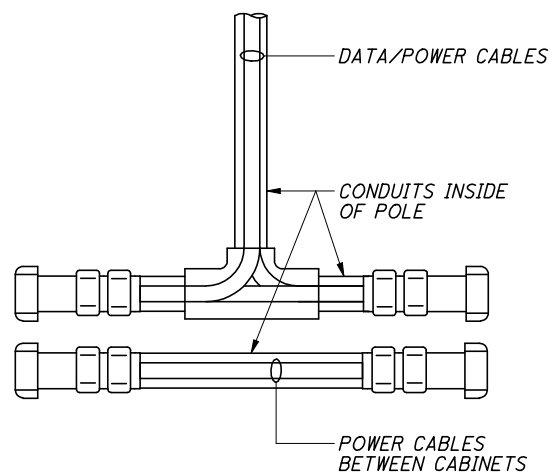
DETAIL 'B'
AIR TERMINAL
NOT TO SCALE



CCTV CAMERA INSTALLATION
NOT TO SCALE

CCTV POLE CAMERA ASSEMBLY NOTES:

1. THIS DRAWING REPRESENTS ONLY A TYPICAL SITE OVERVIEW OF THE SYSTEM. THIS DRAWING IS NOT INTENDED TO SHOW ALL DEVICES OR COMBINATION OF DEVICES IN THE SYSTEM. BASED ON SITE CONFIGURATIONS EACH SITE MAY CONTAIN ONE OR MORE COMBINATIONS NOT SHOWN ON THE PLANS.
2. CABINETS SHOULD NOT BE LOCATED ON THE SAME SIDE OF THE POLE AS THE CCTV DOME HOUSING.
3. CCTV POLE SHALL BE INSTALLED WITH CAMERA LOWERING SYSTEM.
4. CCTV LOWERING SYSTEM MANUFACTURER SHALL PROVIDE ADEQUATE LENGTH OF CCTV CABLE FOR 70' POLE.
5. MAINTAIN 6' FROM GUARDRAIL PLACEMENT OR AS DIRECTED BY THE ENGINEER.



DETAIL 'C'
INTERNAL CONDUITS
NOT TO SCALE

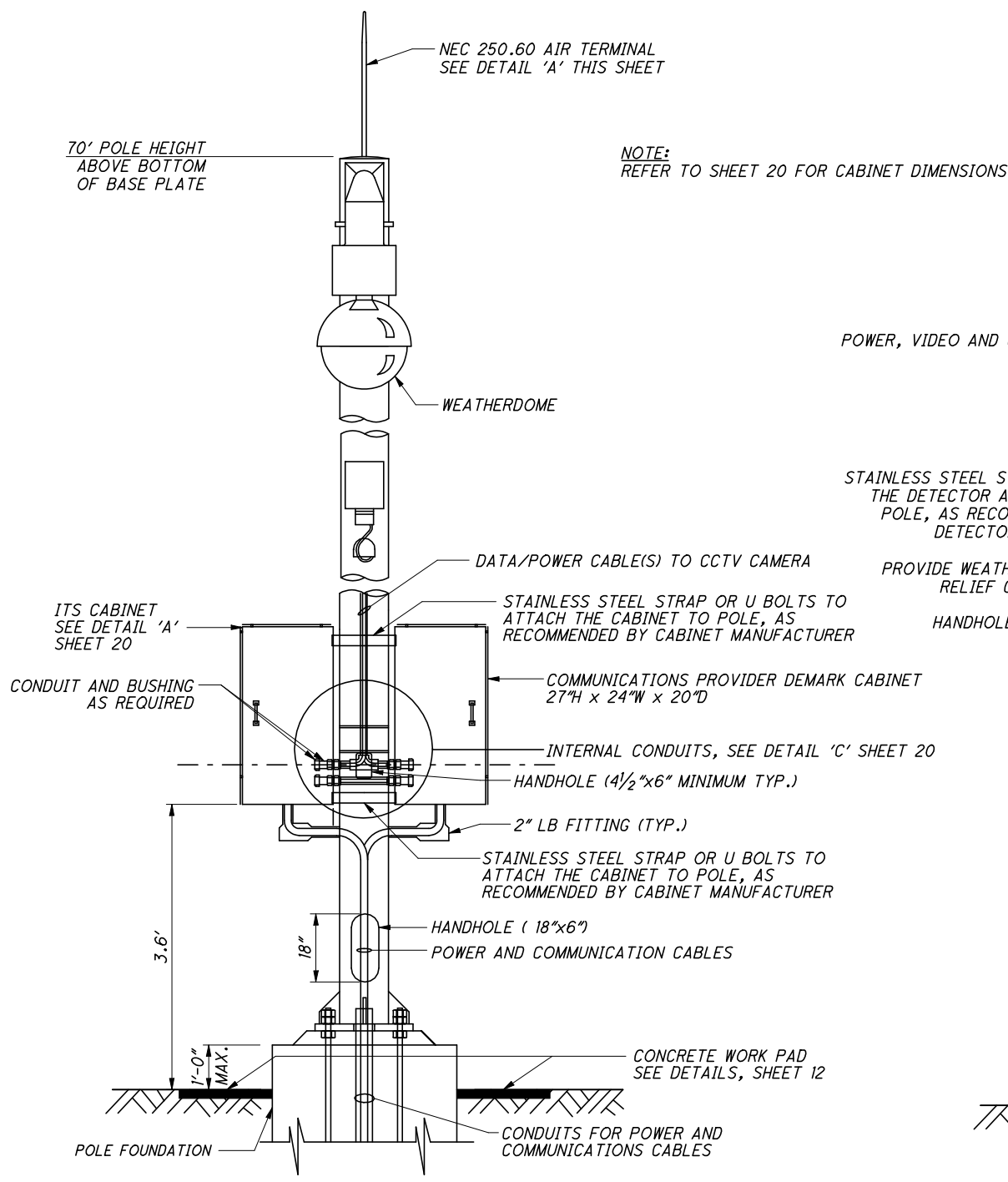
NOTE: CONFIGURATION OF THIS DETAIL SHALL BE SUBMITTED FOR APPROVAL BY THE CENTRAL OFFICE SENIOR ITS ENGINEER

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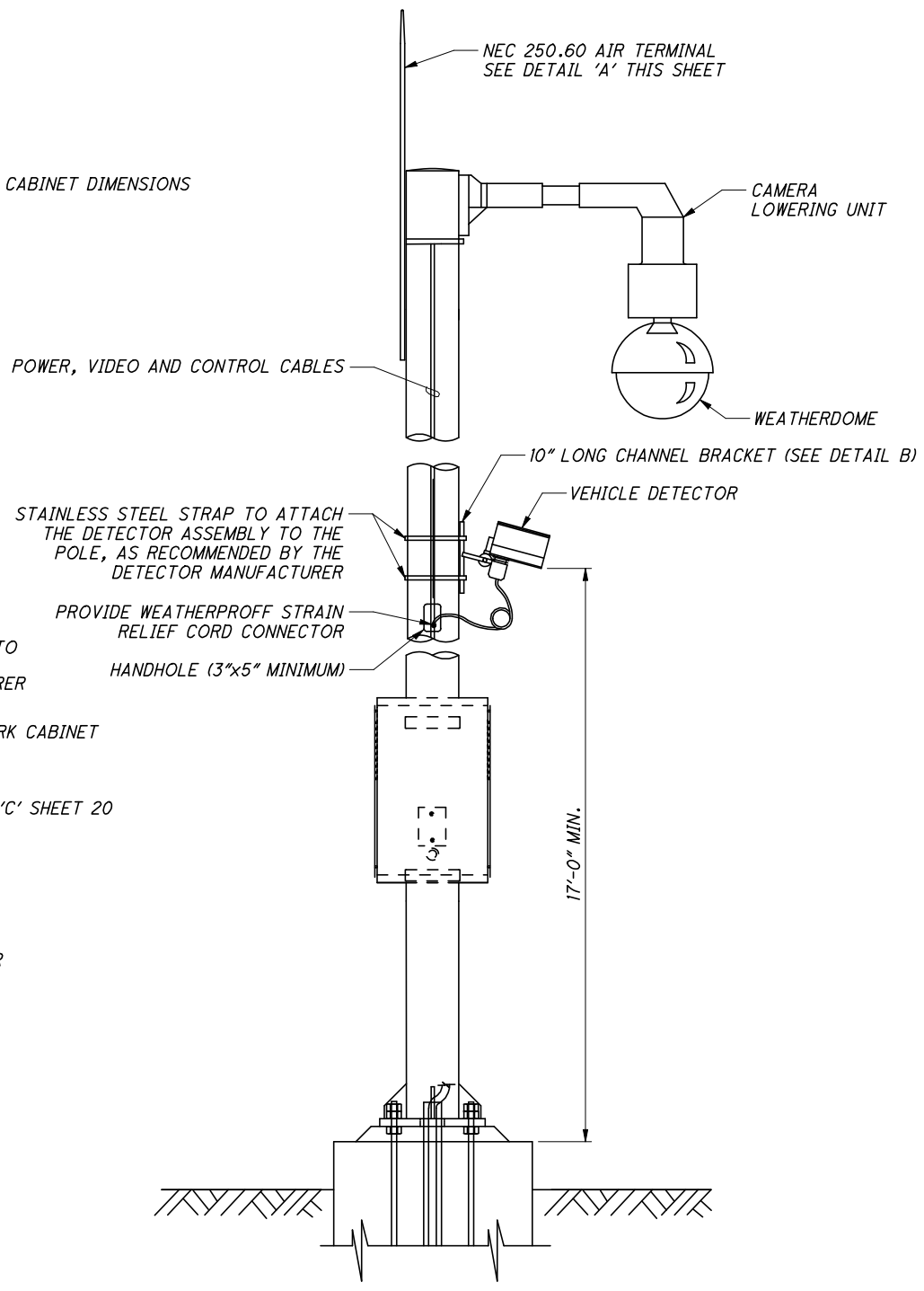
CALCULATED
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CCTV CAMERA DETAIL

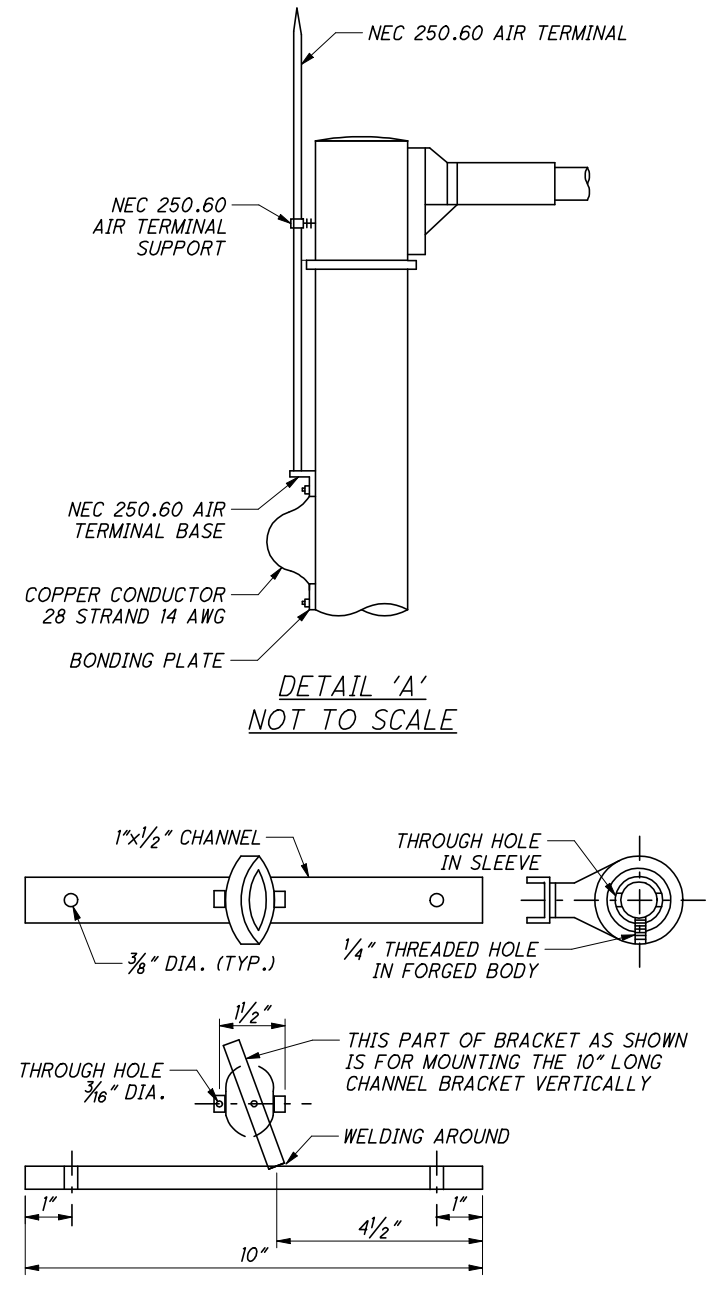
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VEHICLE DETECTOR UNIT, SIDE VIEW
NOT TO SCALE



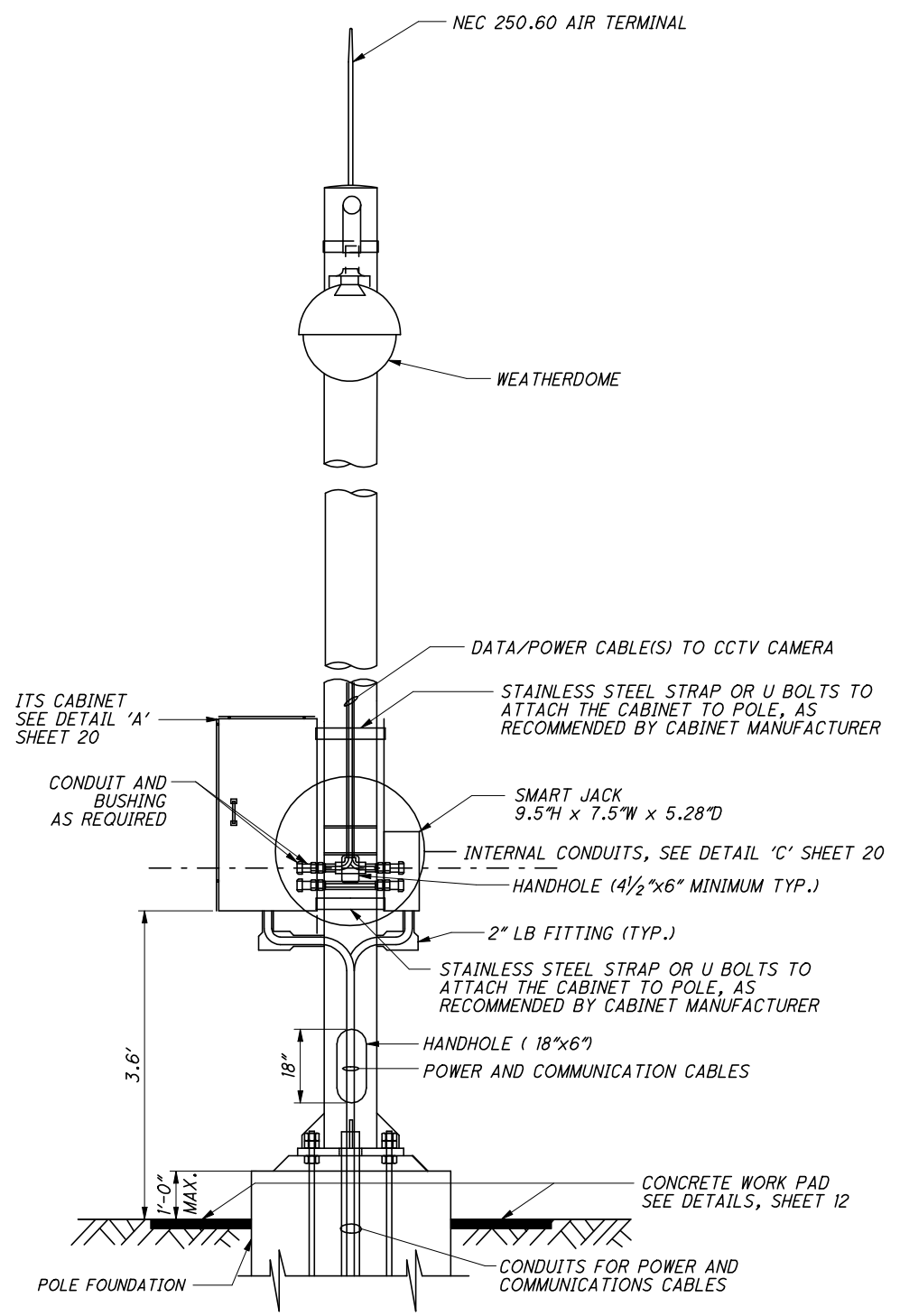
VEHICLE DETECTOR UNIT,
MOUNTED ON CCTV CAMERA POLE
NOT TO SCALE



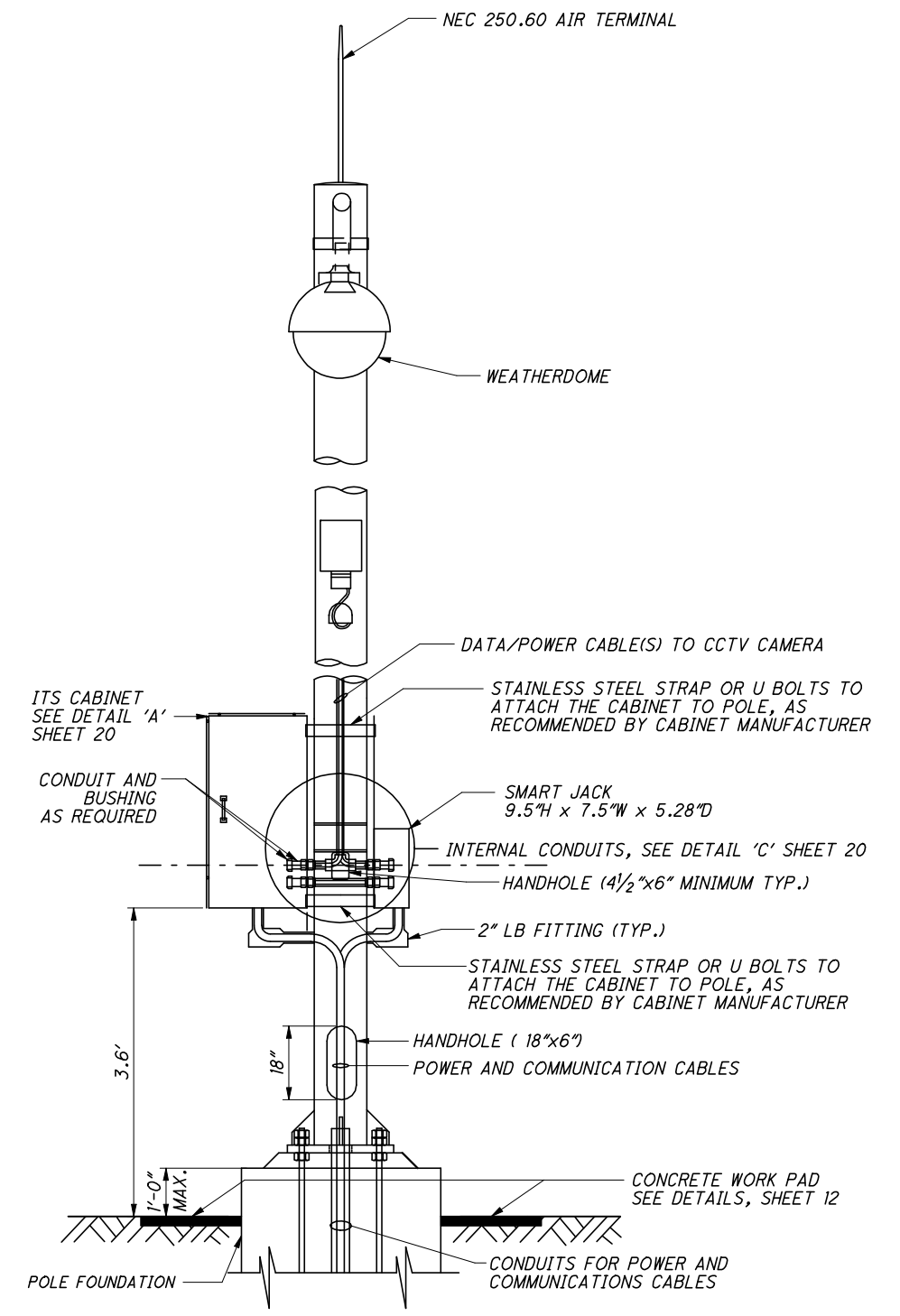
DETAIL 'A', CHANNEL BRACKET
(SUPPLIED BY DETECTOR MANUFACTURER)
NOT TO SCALE

- NOTES:
1. MOUNT VEHICLE DETECTOR UNIT SO THAT THE DETECTOR IS MOUNTED ON THE ROADWAY SIDE OF POLE AT A HEIGHT RECOMMENDED BY THE MANUFACTURER.
 2. SUPPORT HOOKS SHOULD BE APPROPRIATELY SIZED FOR THE NUMBER AND SIZE OF CONDUCTORS TO BE SUPPORTED. SUPPORT ELECTRICAL AND COMMUNICATION CABLES WITH SEPARATE HOOKS.
 3. RUN ALL WIRING INSIDE THE POLE AND PROVIDE STRAIN RELIEF AND SUPPORT FOR ALL CONTROL CABLES.
 4. SEE PLAN SHEETS FOR VEHICLE DETECTOR LOCATIONS.
 5. WHEN INSTALLING THE MOUNTING BRACKETS FOR VEHICLE DETECTORS, ALIGN AND ANGLE THE DETECTORS TO COVER THE DETECTION ZONE(S) PER MANUFACTURER'S SPECIFICATIONS.

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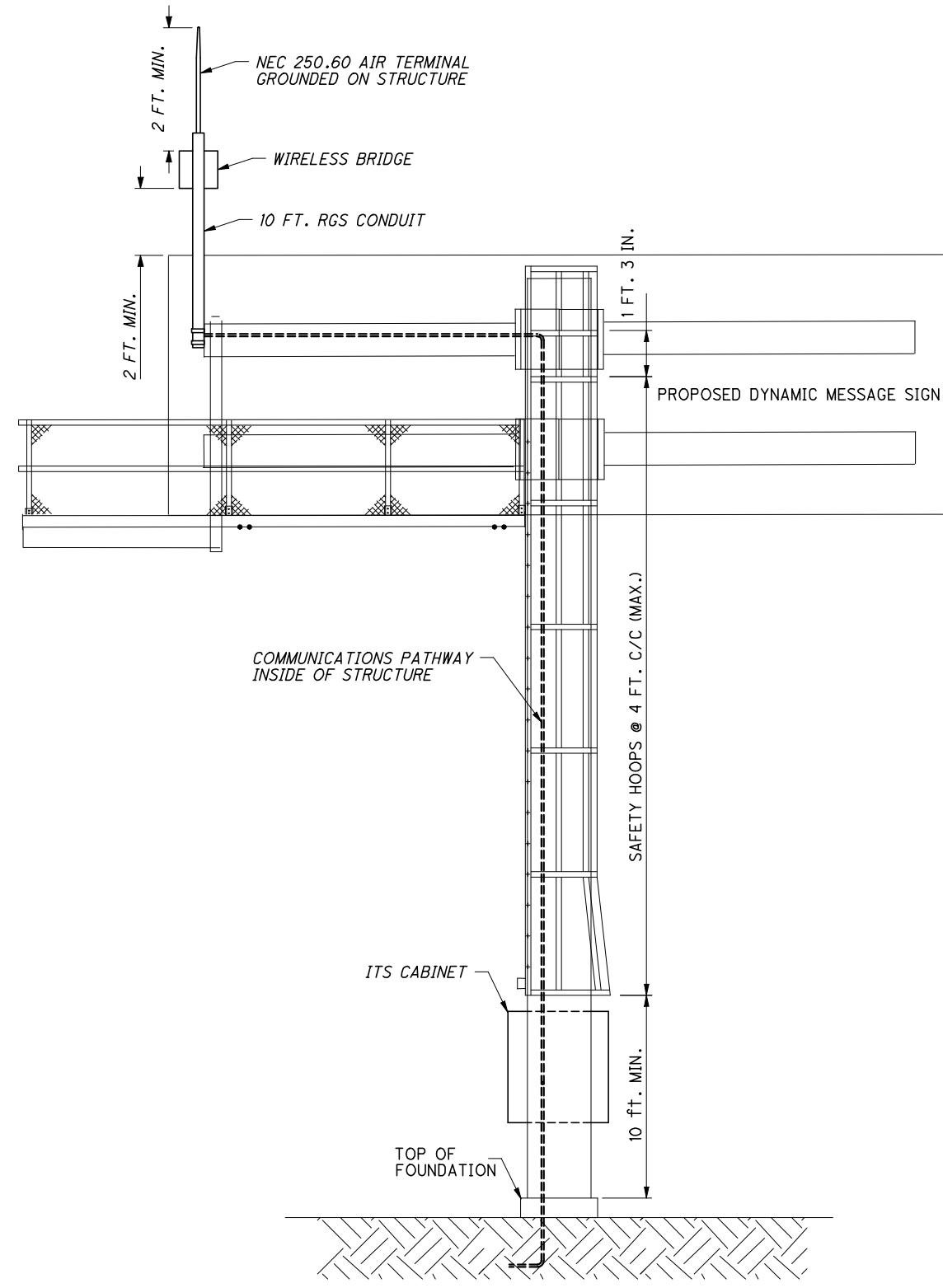
CCTV CAMERA INSTALLATION
WITH SMART JACK CABINET
NOT TO SCALE



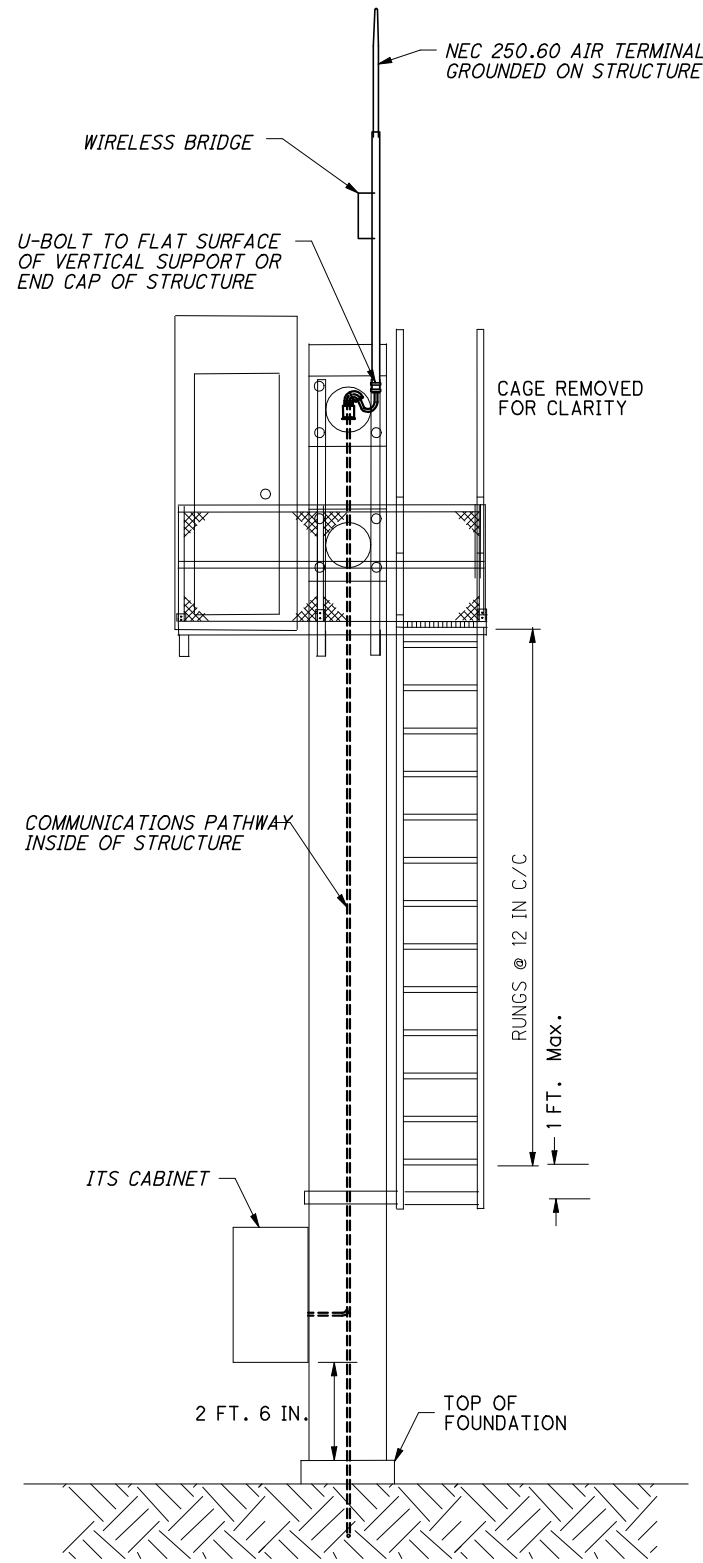
VEHICLE DETECTOR UNIT, SIDE VIEW
WITH SMART JACK CABINET
NOT TO SCALE

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B



ELEVATION - BACK SIDE
NOT TO SCALE



SIDE VIEW B-B
NOT TO SCALE

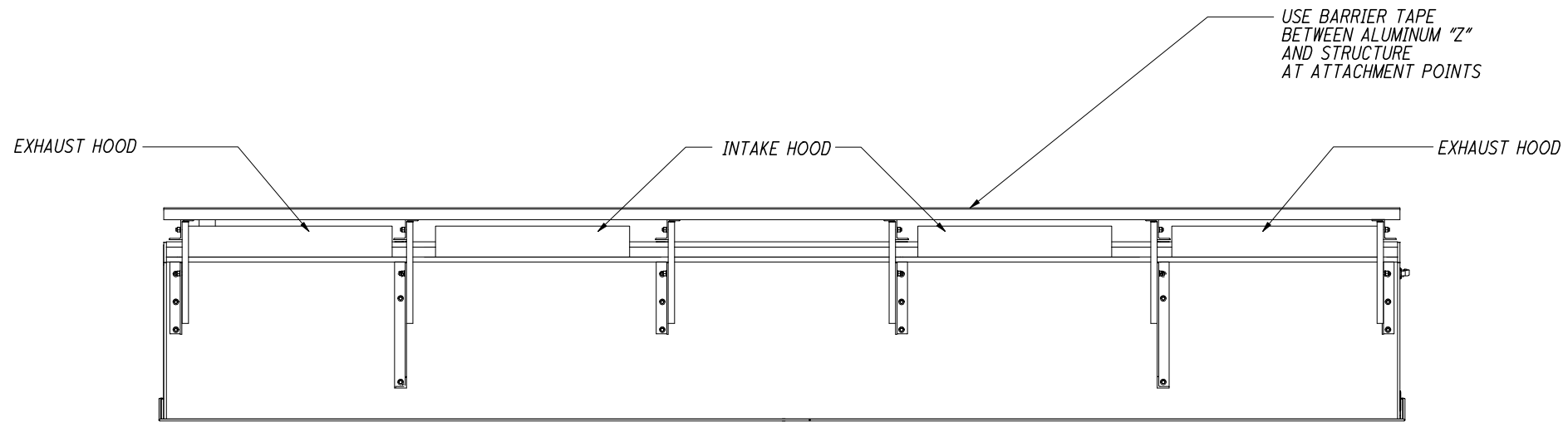
NOTES:

1. RUN ALL WIRING INSIDE THE STRUCTURE AND PROVIDE STRAIN RELIEF AND SUPPORT FOR ALL CABLES.
2. WHEN INSTALLING THE MOUNTING BRACKETS FOR THE WIRELESS UNIT ALIGN AND ANGLE FOR LINE OF SIGHT TO DEVICE 077030.
3. PLACEMENT OF WIRELESS UNIT SHALL BE OPPOSITE TO THE ROADWAY ON THE CATWALK SIDE OF THE DMS.
4. FINAL LOCATION AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE CENTRAL OFFICE SENIOR ITS ENGINEER.

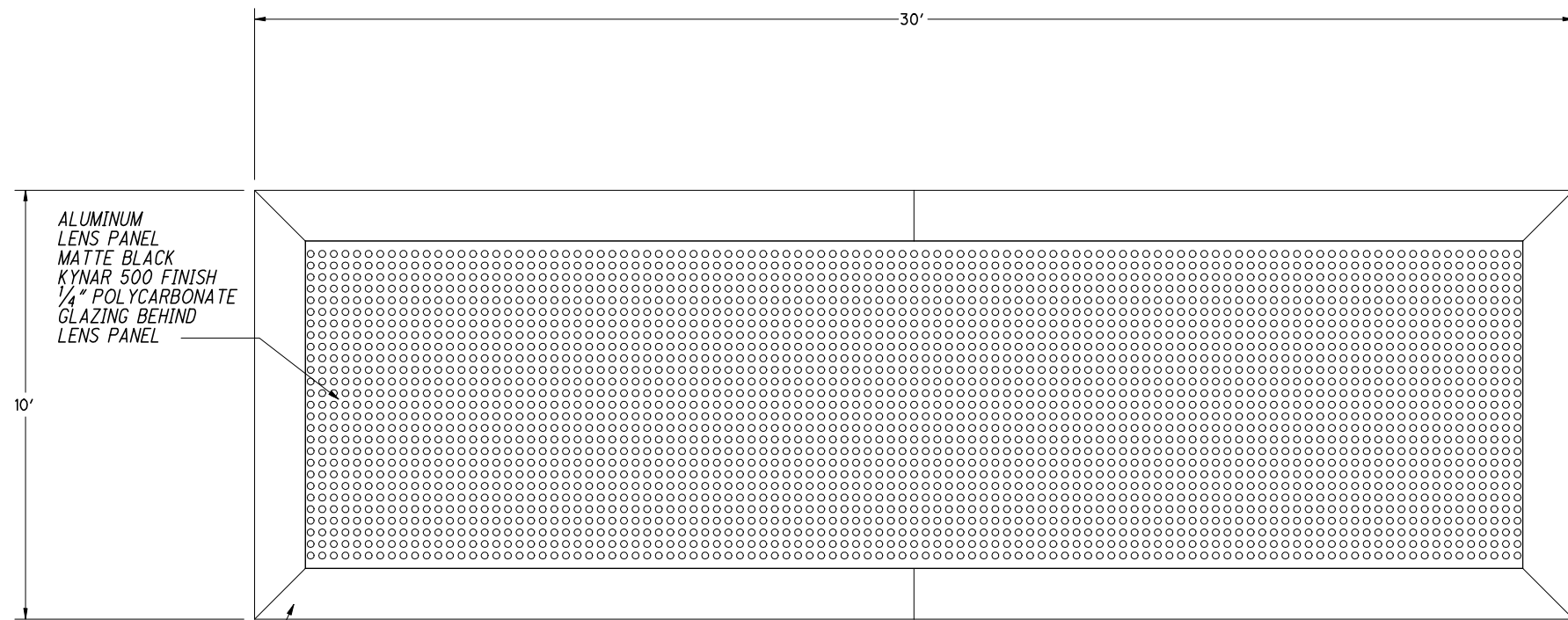
CALCULATED
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JDG

DMS WITH WIRELESS RADIO ASSEMBLY DETAILS

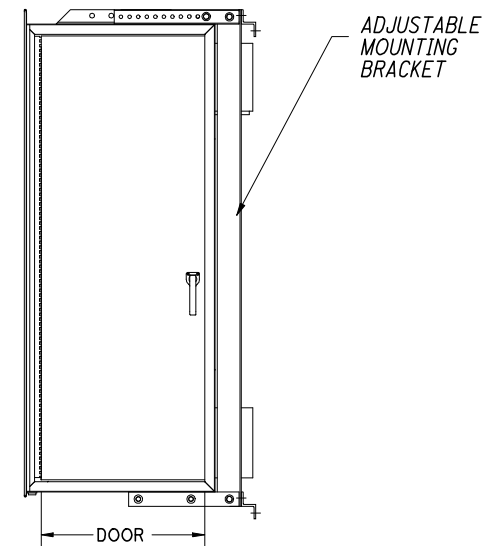
STA - SUM ITS



TOP VIEW



FRONT VIEW



END VIEW
WALK-IN ENCLOSURE

SHEET INTENTIONALLY OMITTED

SHEET INTENTIONALLY OMITTED

SHEET INTENTIONALLY OMITTED

SHEET INTENTIONALLY OMITTED

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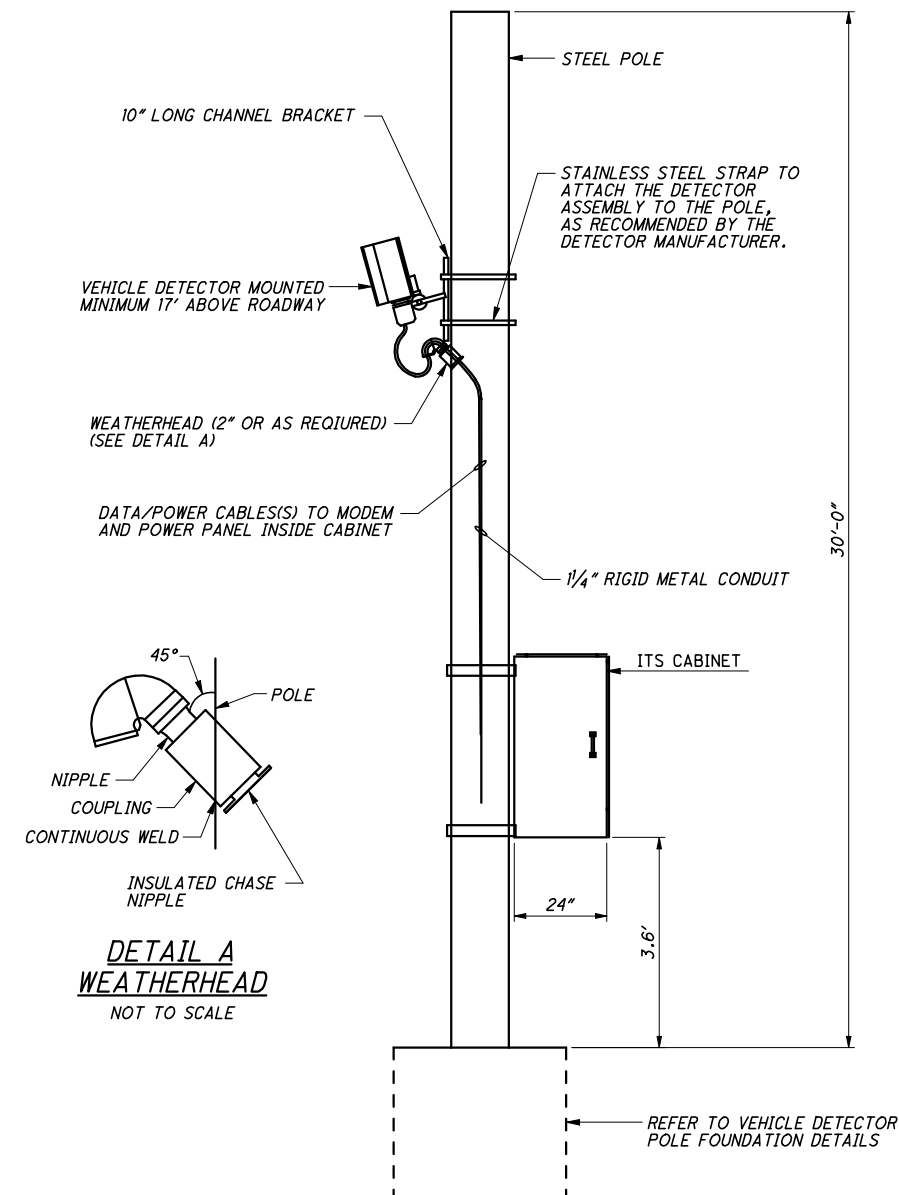
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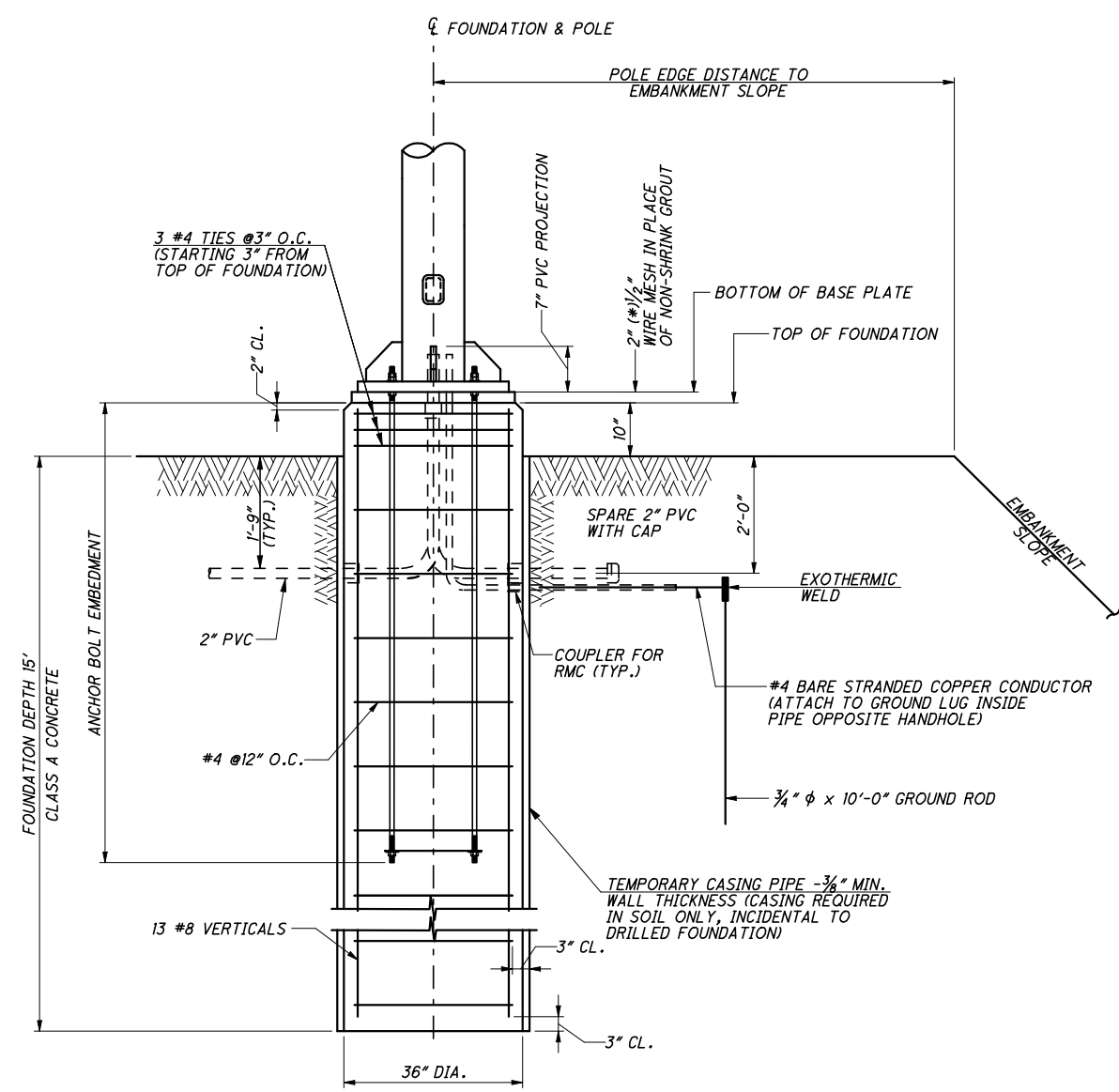
SHEET INTENTIONALLY OMITTED



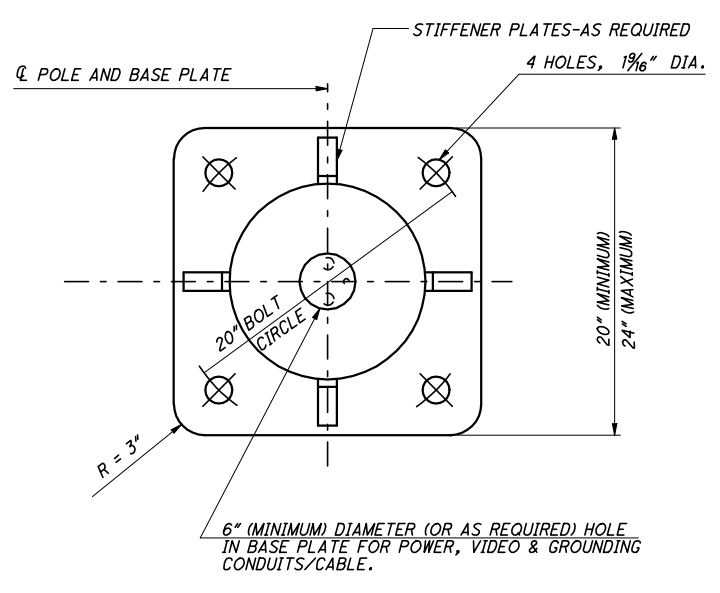
VEHICLE DETECTOR ASSEMBLY MOUNTED TO CONTRACTOR INSTALLED POLE
NOT TO SCALE

- VEHICLE DETECTION ASSEMBLY TO INCLUDE THE FOLLOWING:**
- 1 - 30' STEEL POLE
 - 1 - ITS CABINET*
 - 1 - VEHICLE DETECTOR
 - 1 - CONTROLLER WORK PAD
- ALL ASSOCIATED CONDUIT AND CABLING AT THE SITE NECESSARY FOR THE CONNECTIONS TO PRODUCE A WORKING DEVICE
- *ITS CABINET TO BE TURNED OVER TO ODOT FOR STORAGE UNLESS OTHERWISE NOTED

- NOTES:**
1. MOUNT VEHICLE DETECTOR ASSEMBLY SO THAT THE DETECTOR IS ON THE ROADWAY SIDE OF POLE.
 2. SUPPORT HOOKS SHOULD BE APPROPRIATELY SIZED FOR THE NUMBER AND SIZE OF CONDUCTORS TO BE SUPPORTED. SUPPORT ELECTRICAL AND COMMUNICATION CABLES WITH SEPARATE HOOKS.
 3. RUN ALL WIRING INSIDE THE POLE AND PROVIDE STRAIN RELIEF AND SUPPORT FOR ALL CONTROL CABLES.
 4. WHEN INSTALLING THE VEHICLE DETECTORS, MAINTAIN THE MINIMUM CLEARANCES ON ROADWAYS.
 5. WHEN INSTALLING THE MOUNTING BRACKETS FOR VEHICLE DETECTORS, ALIGN AND ANGLE THE DETECTORS TO COVER THE DETECTION ZONE(S) AS INDICATED AND AS SPECIFIED.
 6. IF SECOND VEHICLE DETECTOR SPECIFIED, MOUNT AT MANUFACTURER'S RECOMMENDED HEIGHT.

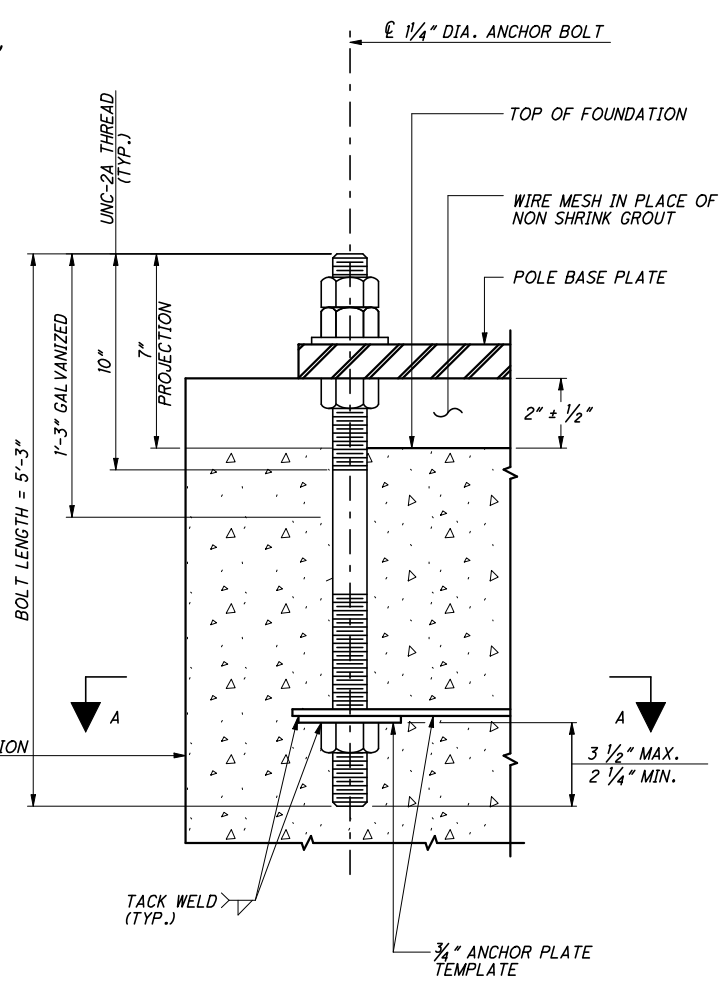
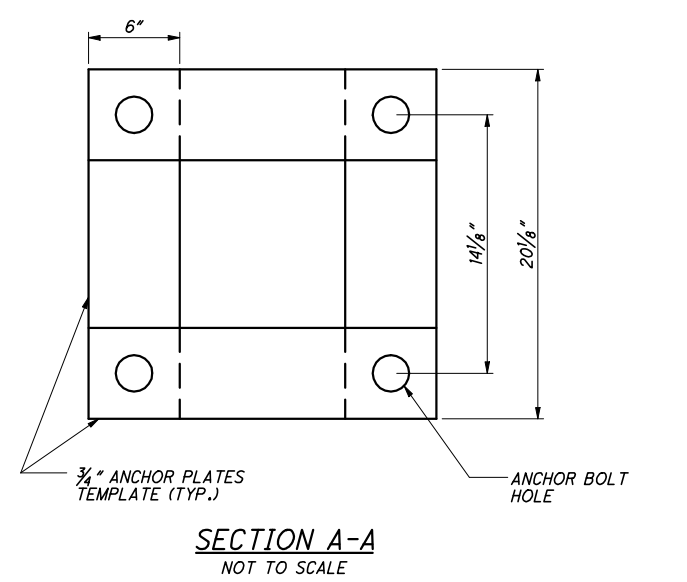


VEHICLE DETECTOR POLE FOUNDATION DETAILS
NOT TO SCALE

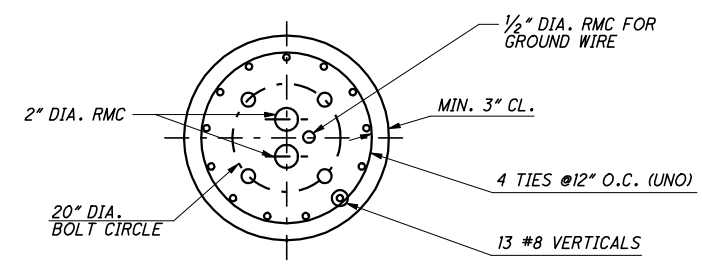


POLE BASE PLATE
(PLATE THICKNESS AS REQUIRED PER DESIGN - 1/2" THICK MINIMUM)
NOT TO SCALE

VEHICLE DETECTOR POLE FOUNDATION, PLAN VIEW
NOT TO SCALE



ANCHOR BOLT DETAIL
NOT TO SCALE



GENERAL

ITEMS INDICATED IN THESE PLANS "AS PER PLAN" (APP) ARE AS SPECIFIED IN THESE PLANS OR IN THE SPECIAL PROVISIONS. SEE SPECIAL PROVISIONS FOR ADDITIONAL PROJECT NOTES.

CONDUIT RISER (BY SIZE)

RISERS AND WEATHERHEADS SHALL BE INSTALLED UNDER THIS PROJECT ON POLES. PAYMENT FOR THESE ITEMS AND THEIR INSTALLATION SHALL FALL UNDER:

625E3400: POWER SERVICE, AS PER PLAN A,B,C,D,E
632E89300: WOOD POLE

CONDUIT MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE

CONDUIT SHALL BE INSTALLED UNDERNEATH THE BRIDGE DECK, OR IN THE LOCATIONS SHOWN ON THE PLAN. INSTALLATION PRACTICES SHALL CONFORM TO 625.12. STANDARD CLAMP TYPE CONDUIT HANGERS SHALL BE USED. STRAP HANGERS ARE NOT ACCEPTABLE. ALL HANGERS AND HANGER HARDWARE SHALL BE GALVANIZED. HOLES FOR EXPANSION ANCHORS SHALL BE DRILLED AS PER 510.03 EXPANSION ANCHORS SHALL BE SET WITH EPOXY ADHESIVE. THREAD ADHESIVE SHALL BE USED ON BOTH THE ANCHOR BOLT MACHINE SCREW AND THE CONDUIT CLAMP SCREW AND NUT.

UTILITY NOTE

UTILITIES TO BE CONTACTED WITH REGARD TO POSSIBLE CONFLICT WITH WORK HEREIN ARE LISTED IN THE SPECIAL PROVISIONS. CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AND ANY NON-MEMBERS OF OUPS AT LEAST TWO WORKING DAYS BEFORE DIGGING. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN A 15' CLEARANCE FROM ALL EXISTING UTILITIES. IF THIS CLEARANCE IS NOT POSSIBLE THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE CENTRAL OFFICE SENIOR ITS ENGINEER FOR PLACEMENT OF THE DEVICE.

ITEM 632 - SIGNALIZATION, MISC.: FOUNDATION TEST HOLE

IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED THAT PRECLUDE THE USE OF STANDARD OR ALTERNATE FOUNDATION DESIGNS FOR ANY STRAIN POLES, SIGNAL SUPPORTS, OR OVERHEAD SIGN SUPPORTS, PROVIDE THE SENIOR CENTRAL OFFICE ITS ENGINEER WITH COMPLETE INFORMATION REGARDING THE OBSTRUCTION, INCLUDING TYPE (I.E. UTILITY), SIZE, DEPTH, AND LATERAL CLEARANCES TO THE SIDES OF THE FOUNDATION EXCAVATION. COVER THE FOUNDATION HOLE WITH A STEEL PLATE UNTIL THE ENGINEER DETERMINES IF A NEW FOUNDATION LOCATION WILL BE REQUIRED. BACKFILL AND COMPACT THE HOLE AND RESTORE THE SURFACE AS DESCRIBED UNDER "RESTORATION OF DISTURBED AREAS" WHEN DIRECTED BY THE SENIOR CENTRAL OFFICE ITS ENGINEER.

PAYMENT FOR FOUNDATION TEST HOLES INCLUDES THE COST OF ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND OTHER INCIDENTALS, INCLUDING BACKFILL, COMPACTING, AND SURFACE RESTORATION AND EXCAVATION OF A NEW FOUNDATION HOLE. THE DEPARTMENT WILL PAY FOR EACH FOUNDATION HOLE THAT MUST BE ABANDONED AT THE CONTRACT UNIT BID PRICE FOR "ITEM 632 - SIGNALIZATION, MISC.: FOUNDATION TEST HOLE" OR ITEM 630 - SIGNING MISC.: FOUNDATION TEST HOLE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AS CONTINGENCY QUANTITIES FOR USE AS DESCRIBED HEREIN.

ITEM	TOTAL	UNIT	DESCRIPTION
632	15	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE

HIGHWAY ADVISORY RADIO ADVANCE WARNING STATIC SIGN

FOR THIS PROJECT STATIC SIGNS WILL BE ERECTED IN ADVANCE OF THE HIGHWAY ADVISORY RADIOS TO PROVIDE MOTORISTS WITH ADVANCE WARNING. THE CONTRACTOR SHALL INSTALL A D12-H7 HIGHWAY ADVISORY RADIO SIGNING AS SHOWN IN THE ODOT SIGN DESIGN MANUAL. BELOW IS A LISTING OF THE APPROXIMATE LOCATIONS WHERE ADVANCE WARNING SIGNS WILL BE PLACED. THE FINAL PLACEMENT OF THE SIGNS WILL BE DETERMINED BY THE STRENGTH OF THE SIGNAL AND SHALL BE APPROVED BY THE CENTRAL OFFICE SENIOR ITS ENGINEER.

PAYMENT FOR HIGHWAY ADVISORY RADIO ADVANCE WARNING STATIC SIGN WILL BE MADE UNDER THE FOLLOWING ITEMS:

- ITEM 630E07600 - GROUND MOUNTED SUPPORT, W10 X 12 BEAM
- ITEM 630E81200 - SIGN ERECTED, EXTRUSHEET
- ITEM 630E84500 - GROUND MOUNTED BEAM SUPPORT FOUNDATION

APPLICABLE HAR	LOCATION DESCRIPTION
SUMMIT HAR	US-224W EAST OF SR-241

ITEM 619 - FIELD OFFICE, TYPE A, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS IN THE CMS, THE FOLLOWING SHALL BE INCLUDED IN THE DISTRICT FOUR FIELD OFFICE:

1. FAX MACHINE
2. INTERNET CONNECTION PER ITEM 619
3. COPIER CAPABLE OF 11"X 17" PRINTS (PLAN SHEET PAGES)
4. BASE STATION AND TWO (2) HAND HELD UNITS CAPABLE OF COMMUNICATING WITH THE DISTRICT TWELVE FIELD OFFICE/ENGINEER.

THE DISTRICT FOUR FIELD OFFICE IS MEANT TO SERVE AS AN AUXILIARY OFFICE, IN DISTRICT FOUR, TO THE MAIN FIELD OFFICE WHICH WILL BE IN DISTRICT TWELVE.

CONSTRUCTION INITIATION:

THE CONTRACTOR SHALL ADVISE THE DISTRICT PUBLIC INFORMATION OFFICER AT 330-786-2211 (PAULA.PUTNAM@DOT.STATE.OH.US), WORK ZONE TRAFFIC MANAGER AT 330-786-4817 (LISA.BOSE@DOT.STATE.OH.US), AND TRAFFIC ENGINEER 330-786-3145 (KEN.GREENE@DOT.STATE.OH.US) FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE PROJECT ENGINEER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION PROJECT. THE PROJECT ENGINEER WILL PROVIDE CLARIFICATION FOR ANY QUESTIONS ABOUT THIS NOTIFICATION REQUIREMENT.

COORDINATION WITH OTHER PROJECTS

THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THE WORK WITH OTHER ONGOING PROJECTS TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING PROJECTS:

PID	PROJECT DESCRIPTION	ESTIMATED START DATE
78679	SUM SR 0021 05.14	12/7/2007
80989	SUM SR 0008 01.75	1/17/2008
78119	SUM SR 0008 09.10	2/21/2008
77037	MED IR 0076 00.69	3/13/2008
25536	STA US 0062 22.42	3/13/2008
83373	STA IR 0077 NOISE WALLS	7/1/2008
81528	SUM SR 0008 07.60	7/17/2008
80560	STA/SUM IR 0077 17.63/00.40	10/1/2008
76347	SUM SR 0008 04.30	10/1/2008
11661	SUM SR 0008 10.66	10/1/2008
24507	SUM SR 0008 13.30	10/1/2008
82597	SUM IR 0271 03.54	7/11/2007
81150	SUM IR 0271 07.56 SLOPE	7/1/2009
81149	SUM IR 0271 09.30 SLOPE	7/1/2009
82433	SUM IR 0271 06.90	5/29/2008
25277	SUM IR 0077 31.88	10/1/2008
84735	STA IR 0077 08.40	4/15/2009

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM, CLEARING AND GRUBBING.

MANY LOCATIONS FOR CLEARING AND GRUBBING HAVE BEEN LOCATED ON THE PLANS. THESE LOCATIONS ARE NOT INTENDED TO IDENTIFY ALL POTENTIAL AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT EACH LOCATION AND IDENTIFY THE WORK REQUIRED IN CONJUNCTION WITH THE SENIOR CENTRAL OFFICE ITS ENGINEER.

FOUNDATIONS FOR SUPPORTS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND RESOLVE POTENTIAL CONFLICTS WITH EXISTING UTILITIES NOT SHOWN IN THESE PLANS PRIOR TO CONSTRUCTION. WORK MAY BEGIN ONLY AFTER THE CONTRACTOR HAS ASSURED THE ENGINEER THAT ALL EXISTING UTILITIES ARE CLEAR. DUE TO THE POSSIBILITY OF CONFLICT WITH EXISTING OR UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATIONS FOR THESE ITEMS, AND CONSEQUENTLY, THE DESIGN OF THE VARIOUS SUPPORTS, AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THESE ITEMS UNTIL THE FOUNDATION LOCATIONS AND/OR SPAN LENGTHS HAVE BEEN FIELD VERIFIED AND HE HAS RECEIVED, FROM THE SENIOR CENTRAL OFFICE ITS ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THESE ITEMS.

IF ANY FOUNDATION LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR SHALL NOTIFY THE SENIOR CENTRAL OFFICE ITS ENGINEER, WHO WILL DETERMINE THE REVISED LOCATIONS AND IF ANY SUPPORT DESIGN CHANGES ARE NECESSARY, IN CONSULTATION WITH DISTRICT 4. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DETERMINING THE REVISED DESIGN. THE SENIOR CENTRAL OFFICE ITS ENGINEER WILL SUBSEQUENTLY INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY, AND AUTHORIZE THE CONTRACTOR TO ORDER THE SUPPORTS.

THE CONTRACTOR SHALL, WHEN DEVELOPING THE PROGRESS SCHEDULE, AND THOSE OF THEIR SUBCONTRACTORS, ENSURE THAT THE FOUNDATIONS ARE INSTALLED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME FOR THE ORDERING, MANUFACTURE, DELIVERY, AND INSTALLATION OF THESE ITEMS AFTER THE FOUNDATIONS ARE IN PLACE.

NO PAYMENTS FOR DELIVERED MATERIALS FOR THESE ITEMS WILL BE MADE UNTIL THE FOUNDATIONS ARE IN PLACE, AND IF CHANGES IN THE DESIGN OF THESE ITEMS ARE REQUIRED, NO PAYMENTS WILL BE MADE FOR ITEMS MANUFACTURED TO THE ORIGINAL DESIGNS.

PUBLIC SAFETY

INSTALL PROPOSED GUARDRAIL PRIOR TO, OR IN CONJUNCTION WITH, THE INSTALLATION OF ANY DEVICES WHICH REQUIRE PROTECTION. NO HAZARD SHALL BE LEFT UNPROTECTED.

THE ENGINEER WILL ORDER WORK STOPPED ON THE PROJECT IF THE CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT. WORK WILL NOT RESUME UNTIL THE VIOLATION IS CORRECTED TO THE SATISFACTION OF THE SENIOR CENTRAL OFFICE ITS ENGINEER.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 202E42207, ANCHOR ASSEMBLY REMOVED, AS PER PLAN

WHEN IT IS NECESSARY TO REMOVE TYPE E-98 GUARDRAIL CONTRACTOR SHALL ONLY REMOVE THE LAST SECTION (12.5') OF TYPE E-98 GUARDRAIL. THE REMAING 37.5' OF TYPE E GUARDRAIL SHALL BE REUSED AS TYPE 5 GUARDRAIL AND SPLICED TO PROPOSED GUARD RAIL. THE PAY ITEM SHALL ONLY INCLUDE REMOVAL OF FINAL SECTION (12.5') OF TYPE E-98 GUARDRAIL.

ANCHOR ASSEMBLY, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS:

- 1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0" [15.24M], INCLUSIVE OF TWO 25'-0" [7.62M] LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS265M	ET-2000 (1997) PLAN, ELEVATION AND SECTIONS	6/20/97	3/6/98
SS142	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4	4/12/00	7/31/00
SS141	ET2000 PLUS PLAN, ELEVATION AND SECTION 25'-0" RAIL, HBA POSTS 1-4	2/29/00	7/31/00
SS158	ET2000 PLUS 50'-0" WITH 12'-6" PANELS AND HBA POSTS 1-4 PLAN, ELEVATION AND SECTION	5/22/00	7/31/00

- 2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0" [15.24M], INCLUSIVE OF FOUR 12'-6" [3.81M] LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PREAPPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SKT-4M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18" [450MM X 450MM], OR 12" [300MM] X 18" [450MM] IF APPLIED TO A RECTANGULAR ET-2000 "PLUS" EXTRUDER HEAD.

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES [100M] ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES [706MM] FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4-INCHES [100MM] ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

SURVEY NOTE

ELEVATIONS ARE BASED ON STATE PLANE GRID, OHIO NORTHERN NAD 83.

ACCURACY OF COMMON HAND-HELD GPS DEVICES IS INADEQUATE FOR LAYOUT OF PROPOSED FIELD EQUIPMENT.

CONCRETE MEDIAN BARRIER REPLACEMENT

REMOVING, GRADING AND INSTALLING THE REPLACEMENT BARRIER IN A CONTINUOUS OPERATION SHALL BE LIMITED TO 10 FEET AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE SENIOR CENTRAL OFFICE ITS ENGINEER. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

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GENERAL NOTES

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GENERAL MAINTENANCE OF TRAFFIC

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (HEREIN AFTER REFERRED TO AS OMUTCD). COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF CONTRACT SALES, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223. PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL PLANS ARE SUBMITTED AND APPROVED BY THE ENGINEER.

ALL TRENCHES SHALL BE BACK FILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

"EXCAVATED AREAS" SHALL BE PROTECTED BY THE USE OF BARRICADES OR PLASTIC DRUMS WITH CAUTION TAPE (PLASTIC FENCE WHERE PEDESTRIANS ARE INVOLVED). "EXCAVATED AREAS" MUST NOT BE LEFT OPEN WITHIN THE CLEAR ZONE DURING NON-WORKING HOURS UNLESS PROTECTED BY GUARDRAIL OR CONCRETE BARRIER. THIS ALSO APPLIES TO OPENINGS IN THE MEDIAN BARRIER.

ACCESS TO ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

NO MATERIALS OR EQUIPMENT SHALL BE STORED ON ODOT RIGHT-OF-WAY UNLESS IT IS BEHIND GUARDRAIL OR 30- FEET FROM THE EDGE OF PAVEMENT. NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION FROM ODOT. THE CONTRACTOR SHALL ARRANGE OPERATIONS TO PREVENT ANY INTERFERENCE WITH TRAFFIC FLOWING THROUGH THE WORK ZONE. THE CONTRACTOR IS EXPRESSLY PROHIBITED FROM ENTERING, CROSSING, OR INFRINGING UPON THE REMAINING OPEN LANES ADJACENT TO A LANE CLOSURE. ALL VEHICLES, EQUIPMENT, PERSONNEL, AND ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF ANY OPEN LANE OF TRAFFIC UNLESS OTHERWISE APPROVED BY THE ENGINEER.

ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED FOR CONDITION AND LOCATION BY THE CONSTRUCTION INSPECTOR BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORKING. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

A TOTAL OF 12 MONTHS FOR ITEM 614E1B510 PORTABLE CHANGEABLE MESSAGE SIGN HAS BEEN INCLUDED IN THE PAY ITEMS FOR USE IN MAINTENANCE OF TRAFFIC ACTIVITIES OR WHEN A LANE CLOSURE IS NEEDED. IT IS ANTICIPATED THAT THESE DEVICES WILL NOT BE NEEDED FOR THE ENTIRE DURATION OF THE PROJECT. THE HOURS OF USE SHALL BE DEDUCTED FROM THE TOTAL PROVIDED QUANTITY.

642-44 WORKSITE TRAFFIC SUPERVISOR, AS PER PLAN

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 1-614-599-7915.
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. THE WTS ONLY HAS TO BE ON SITE FOR LANE CLOSURES. THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING AND CORRECTING 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. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.
5. 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.
6. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.
7. 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.
8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.
9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS WHEN A LANE IS CLOSED.
10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN # 9 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 THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.

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

12. 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.

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.

PAYMENT FOR THE WTS SHALL BE INCLUDED UNDER THE LUMP SUM ITEM 614 MAINTAINING TRAFFIC.

RESTRICTIONS

THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE OHIO DEPARTMENT OF TRANSPORTATION INDICATING THE LOCATIONS AND DATES OF THE LANE CLOSURES AT LEAST THREE (3) DAYS PRIOR TO THE IMPLEMENTATION OF ANY SUCH CLOSURES. THE CONTRACTOR SHALL ALSO NOTIFY THE LOCAL LAW ENFORCEMENT AGENCIES OF LANE CLOSURES AT LEAST THREE (3) DAYS PRIOR TO IMPLEMENTATION. LANE CLOSURES MAY ONLY BE IMPLEMENTED AT THE TIMES PERMITTED BY THE "DISTRICT 3 OR DISTRICT 4 PERMITTED LANE CLOSURE TIMES" LIST, WHICH CAN BE LOCATED AT: [HTTP://PLCM.DOT.STATE.OH.US/PLCM/PLCM_WEB.JSP](http://plcm.dot.state.oh.us/plcm/plcm_web.jsp). CLOSURE TIMES FOR DISTRICT 4 WILL ONLY BE ALLOWED BY THE CLOSURE TIMES ON THE ABOVE WEBSITE AND NOT ON ANY OTHER DISTRICT'S WEBSITE. THE OTHER DISTRICT'S LANE CLOSURE LISTS CAN BE FOUND AT THE SAME LOCATION. THE LATEST REVISION OF THE PERMITTED LANE CLOSURE LIST, AS OF 14 DAYS PRIOR TO THE BID DATE, SHALL BE IN EFFECT FOR THIS PROJECT. ANY ROADWAY NOT LISTED IN THE "DISTRICT 3 OR 4 PERMITTED LANE CLOSURE TIMES" SHALL NOT HAVE ANY CLOSURES WEEKDAYS FROM 7AM-9AM AND 3PM-6PM. 3 LANE CLOSURES ARE PERMITTED ON ANY 4 OR 5 LANE FREEWAY FROM 1AM TO 5AM MONDAY THRU FRIDAY MORNING.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS) NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING
(OTHER HOLIDAY OR EVENT)	

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 THE WEEK TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY

TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY

WEDNESDAY 12:00N TUESDAY THROUGH 6:00 AM THURSDAY

THURSDAY 12:00N WEDNESDAY THROUGH 6:00 AM MONDAY

FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY

SATURDAY 12:00N FRIDAY THROUGH 6:00 AM 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 LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

ENTRANCE RAMP CLOSURE

THE ENGINEER MAY REQUIRE AN ENTRANCE RAMP TO BE CLOSED IF, IN HIS/HER OPINION ALLOWING TRAFFIC TO MERGE INTO THE WORK AREA IS UNSAFE OR IF SIGNIFICANT CONGESTION DEVELOPS.

THE RAMPS SHALL BE CLOSED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-98.28, EXIT RAMP CLOSURE.

LANE CLOSURES

ALL LANE AND RAMP CLOSURES SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM BID ITEM 614 - MAINTAINING TRAFFIC.

SINGLE LANE CLOSURES SHALL BE MADE IN ACCORDANCE WITH MT-95.30 AND MEET THE FOLLOWING CONDITIONS:

- A. 42-INCH (GRABBER OR EQUAL) CONES MAY BE SUBSTITUTED FOR DRUMS AT NIGHT IN TANGENT SECTIONS, IF THEY ARE EQUIPPED WITH A FOUR 6-INCH REFLECTORIZED STRIPED BANDS AND SPACED PER ODOT STANDARDS.
- B. THE BARRIER TRUCK SHALL BE EQUIPPED WITH AN APPROVED ENERGY ABSORPTION DEVICE AND A TYPE C FLASHING ARROW PANEL.
- C. ALL ADVANCED LEAD-IN SIGNS SHALL BE 48" X 48" AN INCLUDE TWO (2) 24" RED FLAGS AND FLASHING TYPE A LIGHTS.
- D. A FLASHING ARROW PANEL (96" X 48") TYPE "C" SHALL BE USED IN ALL LANE CLOSURES IN ACCORDANCE WITH THE OMUTCD.

TWO-LANE CLOSURES SHALL BE MADE IN ACCORDANCE WITH FIGURE TA-37 OF THE OMUTCD. ITEMS A THROUGH D ABOVE, WHICH DEFINE THE CONDITIONS FOR A SINGLE LANE CLOSURE, SHALL APPLY TO THE TWO-LANE CLOSURE.

THE CENTER LANE OF ANY THREE OR MORE LANE DIRECTIONAL ROADWAY WITH A POSTED SPEED LIMIT GREATER THAN 35 MPH SHALL NOT BE CLOSED CLOSED BY ITSELF. TRAFFIC SHALL BE PERMITTED TO PASS ON ONLY ONE SIDE OF THE WORK AREA UNDER THESE CONDITIONS:

WHEN ONE OR TWO LANES ARE CLOSED AT AN EXIT OR ENTRANCE RAMP MT-98.10 AND MT-98.20 SHALL APPLY.

AN EXIT RAMP MAY BE CLOSED BY THE PROJECT ENGINEER IF, IN HIS/HER OPINION, ALLOWING TRAFFIC TO USE THE RAMP IS UNSAFE. ALL EXIT RAMP CLOSURES SHALL BE IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-98.20, LANE CLOSURE AT EXIT RAMP USING DRUMS. RAMPS SHALL ONLY BE CLOSED DURING NON-PEAK HOURS AND DETOURS SHALL BE POSTED. COST OF THE DETOUR SIGNS ARE PART OF THE LUMP SUM 614 MAINTAINING TRAFFIC. A TRUCK SHALL BE USED FOR PROTECTION WHEN WORKERS ARE SETTING ADVANCE WARNING SIGNS AND THE SHOULDER IS LESS THAN 10 FT.

THE PROTECTION VEHICLE SHALL BE EQUIPPED WITH AN APPROVED ENERGY ABSORPTION DEVICE THAT MEETS NCHRP 350, LEVEL III.

IN THE CASE OF TWO LANE EXIT RAMPS, ONLY ONE EXIT LANE SHALL BE MAINTAINED THROUGH A LANE CLOSURE.

ONLY ONE EXIT RAMP MAY BE CLOSED IN EACH DIRECTION AT ANYONE TIME.

A WORK ZONE TRAFFIC SUPERVISOR IS REQUIRED ON SITE WHEN CLOSING LANES ON FREEWAYS OR RAMPS.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

SITES WITHIN THIS PROJECT MAY BE WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED THE HEIGHT OF THE PERMANENT POLE (IN PLACE.) IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THE PERMANENT POLE HEIGHT AT THESE SITES, THE CONTRACTOR IS ADVISED THAT COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT.

THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. A COPY OF THE SUBMISSION AND TWO COPIES OF FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF AVIATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
614-793-5046

ITS EQUIPMENT NOTES:

- 1) DMS CONTROL CABLE, DMS CONTROLLER, AND DMS CONTROLLER CABINET SHALL BE PAID FOR UNDER ITEM 631, SIGN LIGHTING MISC.: DMS ASSEMBLY, EACH.
- 2) WIRELESS CABLE SHALL BE PAID UNDER ITEM 632, "WIRELESS COMMUNICATION ASSEMBLY". CCTV CAMERA DRIVER AND CCTV CONTROL CABLE SHALL BE PAID UNDER ITEM "CCTV CAMERA ASSEMBLY"
- 3) IN ALL CONDUIT INSTALLED ON THIS PROJECT, THE CONTRACTOR SHALL PLACE PULL ROPE AND PLUGS IN ALL UNUSED INNERDUCT CONDUIT IMMEDIATELY UPON INSTALLATION, THIS WORK WILL BE SUBSIDIARY TO THE VARIOUS PAY ITEMS.
- 4) ALL ITS FIELD EQUIPMENT CABINETS WILL BE KEYED WITH CORBIN #2.
- 5) CONTROLLER WORK PADS SHALL BE SIZED AS PER SHEETS 12 AND 12A . EXCAVATE A MINIMUM OF 12" BELOW GRADE. PLACE AND COMPACT 6" OF MATERIAL CONFORMING TO 304.02. INSTALL CONTROLLER WORK PAD THAT IS A MINIMUM OF 6" THICK.
- 6) ALL DMS SIGNS SHALL BE POSITIONED SO THAT THE MAXIMUM VIEWING ANGLE IS 1500 FEET PRIOR TO THE LOCATION OF THE SIGN. ANCHOR BOLTS FOR THE SIGN WILL BE POSITIONED SO THAT THE SIGN IS PERPENDICULAR TO THE ROADWAY CENTERLINE.
- 7) CONTRACTOR SHALL USE ELECTRONIC SURVEY METHODS FOR LOCATING ALL DEVICES. ODOT WILL REVIEW THE PLACEMENT OF ALL EQUIPMENT IN THE FIELD BEFORE BEGINNING WORK.
- 8) CONTRACTOR SHALL ENSURE ALL EQUIPMENT IS GROUNDED AN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.

SHOULDER WORK

FIGURE TA-4 OF THE OMUTCD SHALL APPLY TO ALL WORK THAT IS CONFINED TO THE SHOULDERS OR ANY OF THE RAMPS. THE FOLLOWING CONDITIONS SHALL APPLY:

CONE OR DRUM SPACING SHALL BE AT 40 FEET (APPROXIMATELY EACH SKIP DASH)

THE "EXPRESSWAY" VALUE SHALL BE USED FOR DISTANCES ON SIGN. THE SIGN SHALL BE PLACED AT THE BEGINNING OF A RAMP WHERE THE WORK AREA IS LESS THAN 1200 FEET FROM THE STREET (ENTRANCE RAMPS) OR THE EXIT GORE (EXIT RAMPS).

A PROTECTION VEHICLE EQUIPPED WITH AN APPROVED ENERGY ABSORPTION DEVICE SHALL BE USED. THE ADJACENT LANE SHALL BE CLOSED WHEN THE BERM WIDTH IS LESS THAN 10 FEET.

LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING 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 EXIT RAMP CLOSURES: DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE.

SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

FOR SHORT TERM CLOSURE.

LAW ENFORCEMENT OFFICERS (L.E.O.'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE L.E.O.'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES. LAW ENFORCEMENT OFFICERS (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). THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR 1000 HOURS

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

IF CONTRACTORS WISH TO UTILIZE L.E.O.'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 - MAINTAINING TRAFFIC.

THE CONTRACTOR SHALL PROVIDE THE SERVICES OF SPECIAL DUTY LAW ENFORCEMENT OFFICERS (L.E.O.) FOR THE PURPOSE OF ASSISTING WITH CLOSING AND OPENING LANES, AND GUIDING TRAFFIC THROUGH THE WORK AREA.

ALTERNATIVE METHODS

IF THE CONTRACTOR SO ELECTS, HE/SHE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS FROM THE CHANGE. NO ALTERNATE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN GRANTED BY THE ENGINEER AND ODOT IN WRITING.

FLOOD LIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS WILL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE HIGHWAY. TO INSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER WILL DRIVE THROUGH THE WORK SITE EACH NIGHT, WHEN THE LIGHT IS IN PLACE AND OPERATIVE, PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING WILL BE ADJUSTED.

MAINTENANCE OF TRAFFIC SCHEME (AT ALL LOCATIONS)

DEVISE A SIMPLE MAINTENANCE OF TRAFFIC SCHEME STAMPED BY A PROFESSIONAL ENGINEER (SCHEME MAY BE A HAND SKETCH). PRESENT THE MAINTENANCE OF TRAFFIC SCHEME TO THE DISTRICT WORK ZONE TRAFFIC CONTROL ENGINEER AND PROJECT ENGINEER FOR ACCEPTANCE AT LEAST TWO WEEKS PRIOR TO IMPLEMENTATION.

THE MAINTENANCE OF TRAFFIC SCHEME MUST PRESENT, IN GENERAL, THE METHODS FOR MAINTAINING TRAFFIC THAT THE CONTRACTOR PROPOSES TO USE FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER. THE MAINTENANCE OF TRAFFIC SCHEME MUST BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.), LATEST REVISION, AND THE REFERENCED STANDARD CONSTRUCTION DRAWINGS, THE ATTACHED MAINTENANCE OF TRAFFIC SHEETS, AND THE SPECIFICATIONS. DO NOT COMMENCE WORK UNTIL THE MAINTENANCE OF TRAFFIC SCHEME IS ACCEPTED BY THE ENGINEER.

IF, DURING THE PROJECT, THE ENGINEER DETERMINES THAT THE ACCEPTED MAINTENANCE OF TRAFFIC PLAN IS NOT PERFORMING AS DESIRED, THE WORK SHALL BE SUSPENDED UNTIL THE PROBLEM IS RESOLVED TO THE SATISFACTION OF THE ENGINEER AND THE MAINTENANCE OF TRAFFIC PLAN REVISED ACCORDINGLY. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE OF THE SATISFACTION OF THE ENGINEER WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS IS INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

ELECTRICAL NOTE

THE INSTALLATION OF DISTRIBUTION OR DUCT CABLE IN CONDUIT WILL BE INCIDENTAL TO THE PAY ITEM FOR JACKING/BORING CONDUIT. THE INSTALLATION OF CABLE IN TRENCH WILL BE PAID FOR UNDER THE PAY ITEM FOR TRENCHING. THE DISTRIBUTION OR DUCT CABLE MATERIAL WILL BE PROCURED UNDER THE PAY ITEM FOR DISTRIBUTION CABLES OR DUCT CABLE.

A MINIMUM OF 5 FEET SLACK CABLE SHALL BE COILED IN EACH ELECTRICAL PULL BOX. 10 FEET OF CABLE AT ALL TERMINATIONS AND 5 FEET OF CABLE FOR EACH PULL BOX HAS BEEN ACCOUNTED FOR IN THE CABLE QUANTITIES. NO EXTRA QUANTITY SHALL BE PROVIDED FOR UNDER THE DISTRIBUTION OR DUCT CABLE PAY ITEM. EXTRA CABLE NEEDED WILL BE CONSIDERED INCIDENTAL TO THE NECESSARY EQUIPMENT PAY ITEMS.

ALL TRENCHING FOR ELECTRICAL WORK SHALL BE A MINIMUM OF 48" DEEP. THIS ITEM WILL BE PAID SEPARATELY FROM CABLE AS TRENCH, 48" DEEP.

CONDUIT JACKED OR BORED UNDER ROADWAY SHALL BE PERPENDICULAR TO ROADWAY.

THE CLEARANCE FROM THE FACE TO AN OBSTRUCTION SUCH AS A UTILITY POLE OR ELECTRICAL SERVICE POLE SHOULD BE A MINIMUM OF 1.5 FEET. THE MINIMUM CLEAR ZONE FOR HIGHWAYS WILL BE NO LESS THAN 30 FEET OR AS OTHERWISE ALLOWED PER THE LOCATION AND DESIGN MANUAL, VOLUME ONE ROADWAY DESIGN.

POWER SERVICE

DESCRIPTION
THE ELECTRICAL POWER SERVICE SHALL BE ACCORDING TO THE STATE STANDARDS SPECIFICATION 625.15, 725.19 AND THE STATE STANDARD CONSTRUCTION DRAWING HL-40.10 AND HL-40.20 WITH THE EXCEPTIONS AS NOTED:

ALL ELECTRICAL SERVICES PROVIDED UNDER THIS ITEM SHALL BE METERED UNLESS NOTED OTHERWISE. ALL METER SOCKETS SHALL BE A MANUAL BYPASS METER SOCKET TYPE OR AS REQUIRED BY THE UTILITY. THE ELECTRICAL SERVICE SHALL BE PROVIDED BY THE UTILITY COMPANY AS INDICATED ON THE PLANS, AND SHALL BE CLOSELY COORDINATED WITH THE UTILITY'S REQUIREMENTS.

THE FUSIBLE ELECTRICAL DISCONNECT SWITCH IS TO BE UL LISTED FOR USE AS A SERVICE ENTRANCE WITH A FACTORY INSTALLED NEUTRAL ASSEMBLY. THE SWITCH IS TO BE OF THE HEAVY DUTY TYPE, NEMA 3R, SINGLE THROW, 2-POLE, AND RATED FOR 60A OR 100A AT 240V OR AS INDICATED ON THE PLANS. THE LUGS IN THE DISCONNECT SHALL BE SIZED TO TERMINATE THE CABLE SIZES AS SHOWN ON THE PLANS. THE DISCONNECT SWITCHES SHALL INCLUDE WATERTIGHT HUBS AND SHALL BE CAPABLE OF BEING LOCKED IN BOTH THE OFF AND ON POSITION. PROVIDE TWO PADLOCKS FOR EACH SWITCH. PADLOCKS ARE TO BE IN ACCORDANCE WITH THE PADLOCK SPECIAL PROVISIONS AND ARE PAID SEPARATELY. THE FUSES ARE AS INDICATED ON THE PLANS AND SHALL BE EITHER 30A, OR 80A, CLASS R FUSES, WITH CLASS R FUSE CLIPS. THE FUSES ARE CONSIDERED INCIDENTAL TO THE POWER SERVICE. EACH DISCONNECT WILL HAVE THE DEVICE NUMBER THAT IT OPERATES ETCHED INTO IT.

FOR A DUAL SERVICE POINT, A DISTRIBUTION PANEL SHALL BE MOUNTED IN PLACE OF A DISCONNECT. A DUAL SERVICE POINT IS DEFINED AS A SERVICE POINT THAT FEEDS TWO DIFFERENT DEVICES WITH TWO SEPARATE SETS OF FEEDERS. THE PANEL ENCLOSURE SHALL BE RATED NEMA 3R AND SIZED APPROPRIATELY FOR THE CONDUCTORS AS SHOWN ON THE PLANS. THE PANEL AND ENCLOSURE SHALL BE SERVICE ENTRANCE RATED. THE PANEL SHALL BE ABLE TO BE LOCKED WITH A PADLOCK. THE PADLOCK SHALL BE IN ACCORDANCE WITH THE PADLOCK SPECIAL PROVISIONS AND ARE PAID SEPARATELY. THE SERVICE PANEL SHALL HAVE A 100 AMP MAIN BREAKER WITH TWO 2-POLE, 600V BOLT-ON TYPE BRANCH CIRCUIT BREAKERS DESCRIBED IN THE OVERCURRENT PROTECTIVE DEVICES SECTION OF THE SPECIFICATIONS. SITE 271011 SHALL HAVE A 120A MAIN DISCONNECT. THE CIRCUIT BREAKERS SHALL BE SIZED ACCORDING TO PLAN.

FOR THE 480V SERVICE POINT, AN EXTRA NON-FUSIBLE DISCONNECT WILL BE REQUIRED IN ADDITION TO THE PRIMARY AND SECONDARY DISCONNECTS, AS SHOWN IN THE DETAILS. THE TRANSFORMER THAT IS REQUIRED FOR THE 480V SERVICE SHALL BE PAID FOR SEPARATELY.

THE PAY ITEM POWER SERVICE DOES NOT REQUIRE THE FURNISHING OR INSTALLATION OF A LIGHTING CONTACTOR, PHOTOELECTRIC CELL, OR HAND-OFF-AUTOMATIC SWITCH FOR CONTROL OF CONTACTOR, OR OVER CURRENT PROTECTION DEVICES FOR LIGHTING CIRCUITS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR AND OR TRIM ANY TREES OR BRUSH FOR THE INSTALLATION OF THE POWER SERVICE AND ALL RELATING MATERIALS, INCLUDING THE AERIAL OR UNDERGROUND FEED FROM THE UTILITY POLE TO THE SERVICE POLE. THE TRIMMING AND CLEARING WILL BE DONE AT THE UTILITIES DISCRETION. NO EXTRA PAYMENT WILL BE MADE FOR TREE OR BRUSH CLEARING AND TRIMMING FOR THE INSTALLATION OF POWER SERVICES.

TERMINATIONS, CONNECTIONS, FITTINGS, SWITCHES, DISCONNECTS, GROUND RODS, WEATHER HEADS, METER SOCKETS, CABLES, CONDUITS DOWN TO FIRST PULL BOX, WOOD POLES, EQUIPMENT STANDS, ALUMINUM CHANNELS, BRACES, AND MOUNTING SURFACES, AND OTHER MISCELLANEOUS ITEMS ETC. SHALL BE INCIDENTAL TO THIS WORK AND NO SEPARATE PAYMENT WILL BE MADE.

PAYMENT

THE ELECTRICAL POWER SERVICE WILL BE PAID FOR AS:

POWER SERVICE, TYPE A PAID FOR UNDER POWER SERVICE, AS PER PLAN A

POWER SERVICE, TYPE B PAID FOR UNDER POWER SERVICE, AS PER PLAN C

POWER SERVICE, TYPE C PAID FOR UNDER POWER SERVICE, AS PER PLAN D

POWER SERVICE, TYPE A, 480V PAID FOR UNDER POWER SERVICE, AS PER PLAN F

SPECIAL PROVISION NOTES

BELOW IS A LIST OF ITEMS FOR WHICH THE DESCRIPTIONS OF WORK CAN BE FOUND IN THE SPECIAL PROVISIONS PROVIDED WITH THIS PLAN SET.

- ITEM 622E23401: CONCRETE BARRIER, SINGLE SLOPE, TYPE B, AS PER PLAN
- ITEM 625E23308: DISTRIBUTION CABLE MISC.: NO. 8 AWG 5000 VOLT
- ITEM 625E23308: DISTRIBUTION CABLE MISC.: NO. 4/0 AWG 5000 VOLT
- ITEM 625E23308: DISTRIBUTION CABLE MISC.: AERIAL CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES
- ITEM 625E24400: DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES
- ITEM 625E24400: DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 6 AWG 5000 VOLT CABLES
- ITEM 625E24400: DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 2 AWG 5000 VOLT CABLES
- ITEM 625E24400: DUCT CABLE MISC.: 2" DUCT CABLE WITH FOUR NO. 1/0 AWG 5000 VOLT CABLES
- ITEM 625E24400: DUCT CABLE MISC.: 2-1/2" DUCT CABLE WITH FOUR NO. 3/0 AWG 5000 VOLT CABLES
- ITEM 625E25901: CONDUIT JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN
- ITEM 625E25920: CONDUIT MISC.: 3" CONDUIT FIBERGLASS REINFORCED ATTACHED TO STRUCTURE
- ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE A
- ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE B
- ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE C
- ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE D
- ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE F
- ITEM 630E66501: OVERHEAD SIGN SUPPORT, AS PER PLAN, TYPE A
- ITEM 630E74500: OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL
- ITEM 630E70070 : CONCRETE MEDIAN BARRIER SIGN SUPPORT FOUNDATION, DMS TRUSS
- ITEM 630E70080 : RIGHT OF WAY SIGN SUPPORT FOUNDATION, DMS TRUSS
- ITEM 630E84511 : RIGID OVERHEAD SIGN SUPPORT FOUNDATION, APP, DMS PEDESTAL
- ITEM 632E62820: INTERCONNECT MISC.: HIGHWAY ADVISORY RADIO
- ITEM 632E62820: INTERCONNECT MISC.: WIRELESS RADIO ASSEMBLY
- ITEM 632E62820: INTERCONNECT MISC.: EXISTING HIGHWAY ADVISORY RADIO TO BE REMOVED FOR STORAGE
- ITEM 632E62820: INTERCONNECT MISC.: INNERDUCT 1"
- ITEM 632E62810: INTERCONNECT CABLE MISC.: COMPOSITE CABLE
- ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE CAMERA ASSEMBLY
- ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE FOUNDATION, TYPE A (70 FT)
- ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE FOUNDATION, TYPE B (50 FT)
- ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE, TYPE A, 70 FT, WITH LOWERING DEVICE
- ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE, TYPE B, 50 FT, WITH LOWERING DEVICE
- ITEM 632E90400: SIGNALIZATION MISC.: VEHICLE DETECTION ASSEMBLY
- ITEM 632E90400: SIGNALIZATION MISC.: VEHICLE DETECTION UNIT
- ITEM 632E90400: SIGNALIZATION MISC.: TRANSFORMER, GENERAL PURPOSE 7.5KVA NON-VENTILATED TYPE
- ITEM 632E90400: SIGNALIZATION MISC.: TRANSFORMER, GENERAL PURPOSE 25KVA NON-VENTILATED TYPE

ITEM 625E25901, CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80

THE DISTRICT HAS STORED 8820 FT. OF THIS ITEM. THIS QUANTITY SHALL BE OBTAINED FROM THE ODOT DISTRICT 4 NORTON OUTPOST LOCATED AT I-76 AND SR-21 AND USED ON THE PROJECT PRIOR TO ANY PURCHASED MATERIAL OF THE SAME TYPE. THE PROJECT ENGINEER WILL NEED AT LEAST 48 HOUR ADVANCED NOTICE TO MAKE ARRANGEMENTS FOR PICK-UP.

ITEM 625E30701, PULL BOX, 725.08, 18", AS PER PLAN, TYPE A

PULL BOX LIDS SHALL BE FABRICATED WITH RAISED LETTERS "ELECTRIC". PULL BOX LOCATIONS MUST BE APPROVED BY THE SENIOR CENTRAL OFFICE ITS ENGINEER.

ITEM 625E30701, PULL BOX, 725.08, 18", AS PER PLAN, TYPE B

PULL BOX LIDS SHALL BE FABRICATED WITH RAISED LETTERS "TRAFFIC". PULL BOX LOCATIONS MUST BE APPROVED BY THE SENIOR CENTRAL OFFICE ITS ENGINEER.

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GENERAL NOTES

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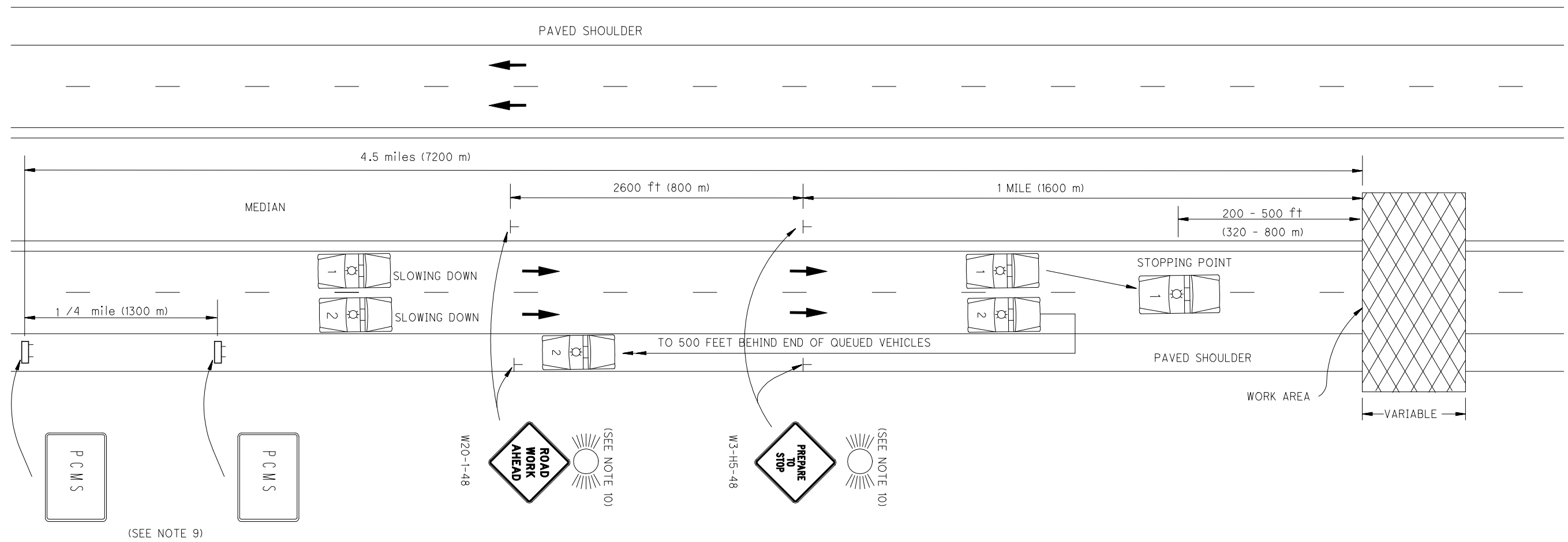
SHORT-DURATION CLOSURE OF
MULT-LANE DIVIDED HIGHWAY

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MAINTENANCE OF TRAFFIC DETAILS

STA-SUM ITS

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1. THIS TYPE OF HIGHWAY CLOSURE SHALL BE USED FOR ALL CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 15 MINUTES.
2. A MINIMUM OF TWO LAW ENFORCEMENT OFFICERS (LEO) WITH PATROL CARS PER DIRECTION SHALL BE PROVIDED TO BLOCK TRAFFIC AND PACE MOTORISTS TO A STOP. THE NUMBER OF PATROL CARS SHALL EQUAL THE NUMBER OF LANES CLOSED ON THE HIGHWAY.
3. PATROL CARS, WITH LIGHTS FLASHING, SHOULD ENTER THE STREAM OF TRAFFIC AT APPROXIMATELY THREE (3) MILES BEFORE THE POINT OF CLOSURE. AT APPROXIMATELY TWO (2) MILES BEFORE THE POINT OF CLOSURE, THEY SHOULD BEGIN THE GRADUAL SLOW DOWN. TRAFFIC SHALL BE BROUGHT TO A COMPLETE STOP A SAFE DISTANCE, BETWEEN 200 FEET AND 500 FEET, FROM THE WORK AREA. THIS SLOWING OPERATION SHALL TAKE NO MORE THAN TEN (10) MINUTES. AFTER TRAFFIC HAS BEEN STOPPED, ONE PATROL CAR SHALL TRAVEL ALONG THE ROADWAY SHOULDER 500 FEET BEHIND THE END OF THE QUEUED VEHICLES.
4. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL TRAFFIC HAS BEEN BROUGHT TO A COMPLETE STOP.
5. ALL ENTRANCE RAMP LOCATED BETWEEN THE STOPPED TRAFFIC AND THE WORK AREA SHALL BE CLOSED.
6. AFTER THE HIGHWAY HAS BEEN CLOSED AND REOPENED VIA THIS PROCEDURE, BOTH OF THE FOLLOWING REQUIREMENTS SHALL HAVE BEEN MET BEFORE IMPLEMENTATION OF ANOTHER SHORT DURATION CLOSURE, EXCEPT WITH THE APPROVAL OF THE ENGINEER:
 - A. A MINIMUM PERIOD OF 15 MINUTES SHALL HAVE ELAPSED
 - B. THE QUEUED TRAFFIC SHALL HAVE DISSIPATED
7. THIS TIME FRAME FOR STOPPING TRAFFIC SHALL BE SPECIFIED IN THE PLANS OR BY THE DISTRICT DEPUTY DIRECTOR.
8. THE PUBLIC SHALL BE GIVEN ADVANCE NOTICE OF THE UPCOMING CLOSURE BY PROVIDING PORTABLE CHANGEABLE MESSAGE SIGNS AT THE SITE AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED CLOSING. CLOSURE INFORMATION SHOULD ALSO BE PROVIDED THROUGH THE NEWS MEDIA.
9. TWO ODOT APPROVED PORTABLE CHANGEABLE MESSAGE SIGNS, CLASS 1, SHALL BE PROVIDED. THE FIRST MESSAGE SIGN SHALL BE PLACED AT APPROXIMATELY 4.5 MILES IN ADVANCE OF THE CLOSURE OR AS DIRECTED BY THE ENGINEER. THE SECOND MESSAGE SIGN SHALL BE PLACED AT APPROXIMATELY ONE QUARTER MILE BEYOND THE FIRST MESSAGE SIGN. THE FIRST MESSAGE SIGN SHALL READ ROAD CLOSED AHEAD (0.8 SEC.), PREPARE TO STOP (0.8 SEC.), (BLACK SCREEN FOR 0.3 SEC.) THE SECOND MESSAGE SIGN SHALL READ ROAD CLOSED AHEAD (0.8 SEC.), "EXPECT 30 MIN. DELAY" (0.8 SEC.), (BLACK SCREEN FOR 0.3 SEC.)
10. THE CONTRACTOR SHALL ERECT AND MAINTAIN 48 INCH "ROAD WORK AHEAD" AND "PREPARE TO STOP" SIGNS ON EACH SIDE OF THE HIGHWAY. DURING NIGHT OPERATIONS, EACH SIGN SHALL BE ILLUMINATED WITH ONE (1) TYPE A FLASHING WARNING LIGHT OR TWO (2) FLARES. THE FLARES SHALL BE REPLACED IF THEY BURN OUT.

NOTE:
SEE SPECIAL PROVISIONS AND ODOT STANDARD DRAWINGS
FOR ADDITIONAL MAINTENANCE OF TRAFFIC NOTES AND DETAILS.

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SHEET NO.	202	202	606	606	606	606	607	622	622		625	625	625	625	625	625	625	625	625	625	625	625	625			
	CONCRETE BARRIER REMOVED	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	GATE, TYPE CL	CONCRETE BARRIER, SINGLE SLOPE, TYPE B, AS PER PLAN	BARRIER TRANSITION		NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT	DISTRIBUTION CABLE, MISC.: NO. 4/0 AWG 5000 VOLT	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT	1-1/2" DUCT CABLE WITH FOUR NO. 4 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 6 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 2 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 2" DUCT CABLE WITH FOUR NO. 1/0 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 2-1/2" DUCT CABLE WITH FOUR NO. 3/0 AWG 5000 VOLT CABLES	CONDUIT, 2", 725.04	CONDUIT, 2", 725.05		
	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
52												268									394					
53							1							708		304										264
54												7928														3720
55																	250									
56													2908													1164
57			462.5		1	1	1							4020												229
58														1376												608
59														1616												718
60							1							632												226
61														2136												664
62							1							432												126
63														600												110
64																										752
65							1							1140												480
66														840												330
67		1	187.5		1		1							1184												236
68							1							416												118
69														604	6420											212
70															8336											
71			175		1	1					112				2288											365
72		1	212.5		1															161						
73			112.5		1	1															265					
74																										
75							2							1820												582
76							1							2172												695
77							1							668												244
78														484												132
79																										2112
80	90						1	80	2				5316									239				
81							1								1168				69							372
82															712											266
83							1					1372														356
84																										
85				87.5	1	1	1														292					
86															544											182
87			287.5		1	1	1								384								979			102
88																										
89							1								336											78
90	90	1	12.5		1		1	80	2			864														465
91															520											170
92	90							80	2		804													38	306	
93							1								1260											442
94															464											142
95															320											70
96							1								532											176
97															1452											526
98															476											148
99							1														118					
100															964											266
101															460											140
102															4112											1956
103															1864											842
SUBTOTALS	270	3	1450	87.5	8	5	21	240	6		2288	1132	13244	35304	21064	304	698	0	0	1069	239	979	70		21092	

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SHEET NO.	202	202	606	606	606	606	607	622	622		625	625	625	625	625	625	625	625	625	625	625	625	625		
	CONCRETE BARRIER REMOVED	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	GATE, TYPE CL	CONCRETE BARRIER, SINGLE SLOPE, TYPE B, AS PER PLAN	BARRIER TRANSITION		NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT	DISTRIBUTION CABLE, MISC.: NO. 4/0 AWG 5000 VOLT	DISTRIBUTION CABLE, MISC.: AERIAL CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES	1-1/2" DUCT CABLE WITH FOUR NO. 4 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 6 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH FOUR NO. 2 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 2" DUCT CABLE WITH FOUR NO. 1/0 AWG 5000 VOLT CABLES	DUCT CABLE, MISC.: 2-1/2" DUCT CABLE WITH FOUR NO. 3/0 AWG 5000 VOLT CABLES	CONDUIT, 2", 725.04	CONDUIT, 2", 725.05	
	FT	EACH	FT	FT	EACH	EACH	EACH	FT	EACH		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
104							1					6072													2546
105													528												174
106							1					240						305						25	690
107											332		584											48	202
108												480													150
109							1						3388												1604
110												60	1024												298
111							1						468												144
112							2				240	320	388					91					70	104	
113							2						960												300
114							1						1220												510
115							1						500												160
116		1	200		1		1						384				85								102
117													2688												362
118													848												314
119													2768												1284
120													1864												686
121											248		2360												791
122							1						4992												2386
123			362.5		1	1					460														140
124													412												116
125	90	1	325		2	1	1														578				
SUBTOTALS THIS SHEET																									
90	2	887.5	0	4	2	13	0	0		1280	1040	9520	21988	0	0	85	305	91	0	578	0	143	13063		
SUBTOTALS SHEET 45																									
270	3	1450	87.5	8	5	21	240	6		2288	1132	13244	35304	21064	304	698	0	0	1069	239	979	70	21092		
TOTALS CARRIED TO THE GENERAL SUMMARY																									
360	5	2337.5	87.5	12	7	34	240	6		3568	2172	22764	57292	21064	304	783	305	91	1069	817	979	213	34155		

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SHEET NO.	625	625	625	625	625	625	625	625	625	625	625	625	625	625	630	630	630	630	630	631	632	632	632	632	632		
	CONDUIT, 3", 725.04 FT	CONDUIT, 3", 725.05 FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN FT	CONDUIT, MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE FT	TRENCH, 48" DEEP FT	PULL BOX, 725.08, 18", AS PER PLAN A EACH	PULL BOX, 725.08, 18", AS PER PLAN B EACH	POWER SERVICE, AS PER PLAN A EACH	POWER SERVICE, AS PER PLAN C EACH	POWER SERVICE, AS PER PLAN D EACH	POWER SERVICE, AS PER PLAN F EACH	TRANSFORMER PAD, CONCRETE EACH	OVERHEAD SIGN SUPPORT, AS PER PLAN A EACH	CONCRETE MEDIAN BARRIER SIGN SUPPORT FOUNDATION, DMS TRUSS EACH	RIGHT OF WAY SIGN SUPPORT FOUNDATION, DMS TRUSS EACH	OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN, DMS PEDESTAL EACH	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN A EACH	INTERCONNECT CABLE, MISC.: COMPOSITE CABLE FT	INTERCONNECT CABLE, MISC.: INNERDUCT 1" FT	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO EACH	INTERCONNECT, MISC.: WIRELESS RADIO ASSEMBLY EACH	WOOD POLE EACH				
52			154		207	4			1								1	1	1								
53					142	2	2	1																	1		
54			114		1584	6	6	1																			
55					200	3		1										1	1	1							
56			180		582	6	6	1			1																
57		1910			1189	3	4	1											1	1	1						
58					304	3	3	1														229					
59					369	2	2	1																			
60					123	2	2	1																			
61			304		342	3	3	1																			
62					73	2	2	1																			
63			80		70	3	3	1																			
64			97		752		8																				
65					250	2	2	1																			
66					310	2	2	1																			
67			246		128	4	4	1																			
68					69	2	2	1																			
69		3120			1681	5	5	1		1	1																
70		4128			2064	4	4																				
71		1091			904	2	3				1							1	1	1							
72					126	2		1										1	1	1							
73			34		186	4		1										1	1	1							
74																											
75			128		311	6	6	2																			
76			102		559	4	4	1																			
77					132	2	2	1																			
78					76	2	2	1																			
79			406		1066	7	7	1																			
80					204	2		1							1	1	2			1							
81			102		230	4	4		1																		
82					143	2	2	1																			
83			78		215	4	2		1																		
84																											
85			46		191	4		1							1		4			1							
86					101	2	2	1																			
87					990	5	2	2											1	1	1						
88					168	3		1											1	1	1						
89					49	2	2	1																			
90					308	3	4	1							1	1	2			1							
91					95	2	2	1																			
92					251	2	3		1						1	1	2			1							
93			78		231	4	4	1																			
94					81	2	2	1																			
95					45	2	2	1																			
96					98	2	2	1																			
97			90		273	4	4	1																			
98					84	2	2	1																			
99					83	2		1											1	1	1						
100			106		143	4	4	1																			
101					80	2	2	1																			
102					988	3	3	1																			
103					431	2	2	1																			
SUBTOTALS	0	10249	2345	0	19281	151	134	45	2	2	1	3	4	3	10	9	9	13	1315	0	2	1	2				

CALCULATED	JDF	ITS SUBSUMMARY
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		154

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SHEET NO.	625	625	625	625	625	625	625	625	625	625	625	625	625	630	630	630	630	630	631	632	632	632	632	632
	CONDUIT, 3", 725.04 FT	CONDUIT, 3", 725.05 FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN FT	CONDUIT, MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE FT	TRENCH, 48" DEEP FT	PULL BOX, 725.08, 18", AS PER PLAN A EACH	PULL BOX, 725.08, 18", AS PER PLAN B EACH	POWER SERVICE, AS PER PLAN A EACH	POWER SERVICE, AS PER PLAN C EACH	POWER SERVICE, AS PER PLAN D EACH	POWER SERVICE, AS PER PLAN F EACH	TRANSFORMER PAD, CONCRETE EACH	OVERHEAD SIGN SUPPORT, AS PER PLAN A EACH	CONCRETE MEDIAN BARRIER SIGN SUPPORT FOUNDATION, DMS TRUSS EACH	RIGHT OF WAY SIGN SUPPORT FOUNDATION, DMS TRUSS EACH	OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN, DMS PEDESTAL EACH	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN A EACH	INTERCONNECT CABLE, MISC.: COMPOSITE CABLE FT	INTERCONNECT CABLE, MISC.: INNERDUCT 1" FT	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO EACH	INTERCONNECT, MISC.: WIRELESS RADIO ASSEMBLY EACH	WOOD POLE EACH	
104			330		1283	9	9	1																
105					97	2	2	1																
106					965	3	3			1														
107					159	2	2			1														1
108		123			203	2	3	1									1	1	1	266	123			
109					807	3	3	1																
110			114		164	5	5	1																
111					82	2	2	1																
112					178	4	2			2							1	1	1					
113					170	4	4	2																
114					265	3	3	1																
115					90	2	2	1																
116					101	4	2	2									1	1	1					
117	382		64	380	191	6	6		1															
118					167	2	2		1		1													
119					652	3	3	1																
120			136		353	4	4	1																
121			296		419	5	5			1														
122					1203	4	4	1																
123		112			187	2	3	1									1	1	1	244	112			
124					68	2	2	1																
125					533	2		1						1		4			1					
SUBTOTALS THIS SHEET																								
382	235	940	380	8337	75	71	18	2	5	0	1	1	0	4	4	4	5	510	235	0	0	1		
SUBTOTALS SHEET 47																								
0	10249	2345	0	19281	151	134	45	2	2	1	3	4	3	10	9	9	13	1315	0	2	1	2		
TOTALS CARRIED TO THE GENERAL SUMMARY																								
382	10484	3285	380	27618	226	205	63	4	7	1	4	5	3	14	13	13	18	1825	235	2	1	3		

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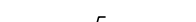
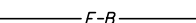
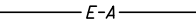
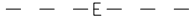
SHEET NO.	632								630																
	SIGNALIZATION, MISC.: CCTV POLE CAMERA ASSEMBLY	SIGNALIZATION, MISC.: CCTV POLE FOUNDATION, TYPE A (70 FT.)	SIGNALIZATION, MISC.: CCTV POLE, TYPE A, 70', WITH LOWERING DEVICE	SIGNALIZATION, MISC.: EXISTING HIGHWAY ADVISORY RADIO TO BE REMOVED FOR STORAGE	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT	SIGNALIZATION, MISC.: VEHICLE DETECTION ASSEMBLY	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 25KVA, NON-VENTILATED TYPE			GROUND MOUNTED SUPPORT, W10 X 12 BEAM	GROUND MOUNTED BEAM SUPPORT FOUNDATION	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND STORAGE	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND STORAGE							
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH								
52																									
53	1	1	1		1																				
54	1	1	1																						
55										32	2	1			2										
56	1	1	1				1																		
57	1	1	1										1		2										
58	1	1	1		1																				
59	1	1	1																						
60	1	1	1		1																				
61	1	1	1																						
62	1	1	1		1																				
63	1	1	1																						
64	1	1	1	1																					
65	1	1	1		1																				
66	1	1	1																						
67	1	1	1		1																				
68	1	1	1																						
69	1	1	1					1																	
70																									
71	1	1	1					1																	
72																									
73																									
74															1	2									
75	2	2	2																						
76	1	1	1			1																			
77	1	1	1																						
78	1	1	1																						
79	1	1	1																						
80																									
81	1	1	1																						
82	1	1	1		1																				
83	1	1	1																						
84				1																					
85																									
86	1	1	1		1																				
87	1	1	1																						
88																									
89	1	1	1																						
90	1	1	1																						
91	1	1	1																						
92	1	1	1		1																				
93	1	1	1																						
94	1	1	1																						
95	1	1	1																						
96	1	1	1		1																				
97	1	1	1																						
98	1	1	1		1																				
99																									
100	1	1	1																						
101	1	1	1		1																				
102	1	1	1																						
103	1	1	1																						
SUBTOTALS	42	42	42	2	12	1	1	2		32	2	1	1	1	6	3	3								

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LEGEND

	EXISTING OVERHEAD CANTILEVER
	EXISTING OVERHEAD TRUSS
	WIRELESS CDMA DMS TRUSS WITH ITS CABINET AND WORK PAD
	DMS TRUSS WITH ITS CABINET AND WORK PAD, APP
	CCTV WITH ITS CABINET AND WORK PAD, APP
	CCTV WITH VEHICLE DETECTOR, ITS CABINET AND WORK PAD, APP
	CCTV WITH WIRELESS RADIO, ITS CABINET AND WORK PAD, APP
	DMS PEDESTAL WITH ITS CABINET AND WORK PAD, APP
	WIRELESS CDMA DMS PEDESTAL WITH ITS CABINET AND WORK PAD, APP
	DMS PEDESTAL WITH WIRELESS RADIO, ITS CABINET AND WORK PAD, APP
	ELECTRIC PULL BOX, 725.08, 18", APP A
	TRAFFIC PULL BOX, 725.08, 18", APP B
	EXISTING PULL BOX
	EXISTING HAR
	VEHICLE DETECTOR SYSTEM
	GUARDRAIL END TREATMENT
	PEDESTAL POLE
	EXISTING LIGHTING CONTROLLER
	EXISTING ELECTRICAL UTILITY POLE
	POWER SERVICE, OR 45' WOOD POLE, OR PROPOSED UTILITY POLE INSTALLED BY CONTRACTOR, OR COMMUNICATION POLE, APP
	EXISTING FLASHER POLE
	CONCRETE BARRIER WALL
	NOISE WALL
	EXISTING GUARDRAIL
	PROPOSED GUARDRAIL
	EXISTING CONDUIT
	PROPOSED CONDUIT

LEGEND

	ELECTRICAL DUCT CABLE IN TRENCH
	ELECTRICAL DUCT CABLE IN CONDUIT, DIRECTIONAL BORED
	ELECTRICAL AERIAL CABLE
	EXISTING ELECTRICAL

ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION
DMS	DYNAMIC MESSAGE SIGN
VD	VEHICLE DETECTOR
W	WIRELESS
WR	WIRELESS RADIO
HAR	HIGHWAY ADVISORY RADIO

DEFINITIONS

BEHIND GUARDRAIL: MEASURE DISTANCE FROM BACK OF GUARDRAIL POST

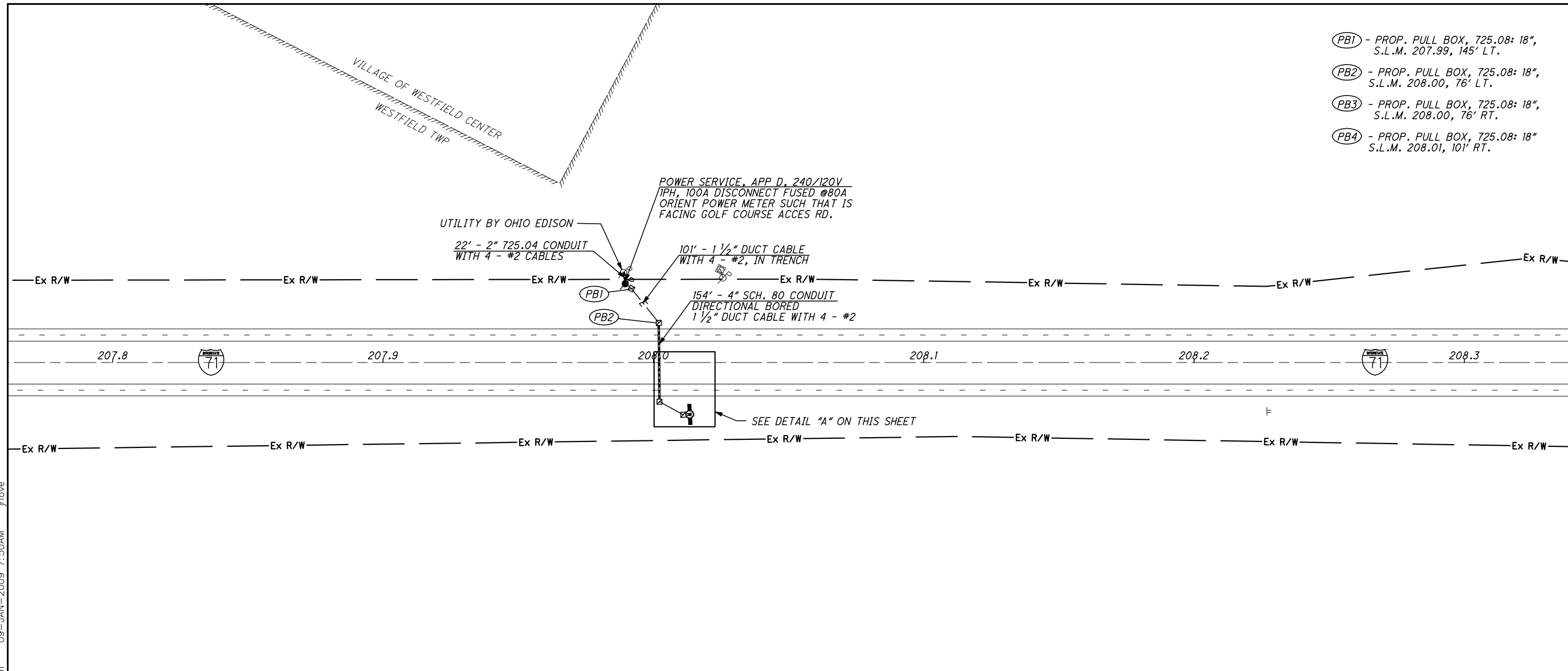
EDGE LINE: MEASURED AT THE POINT FROM THE EDGE OF TRAVELED WAY



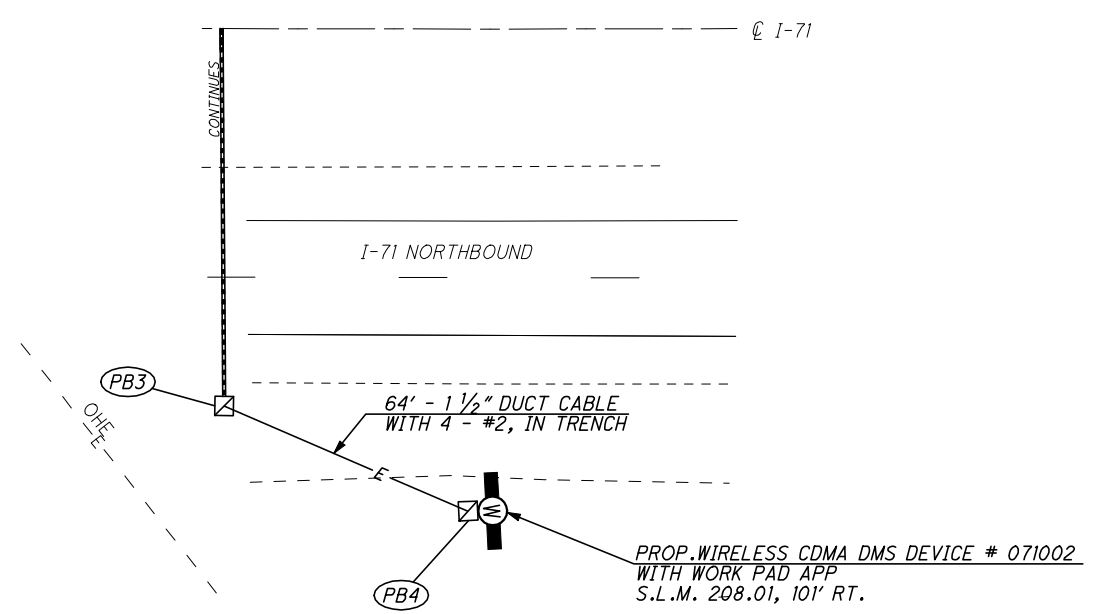


 HORIZONTAL SCALE IN FEET

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 207.99, 145' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 208.00, 76' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 208.00, 76' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18" S.L.M. 208.01, 101' RT.



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 14 FOR TYPICAL POWER SERVICE AS PER PLAN D DETAILS
 REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
 REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 132 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

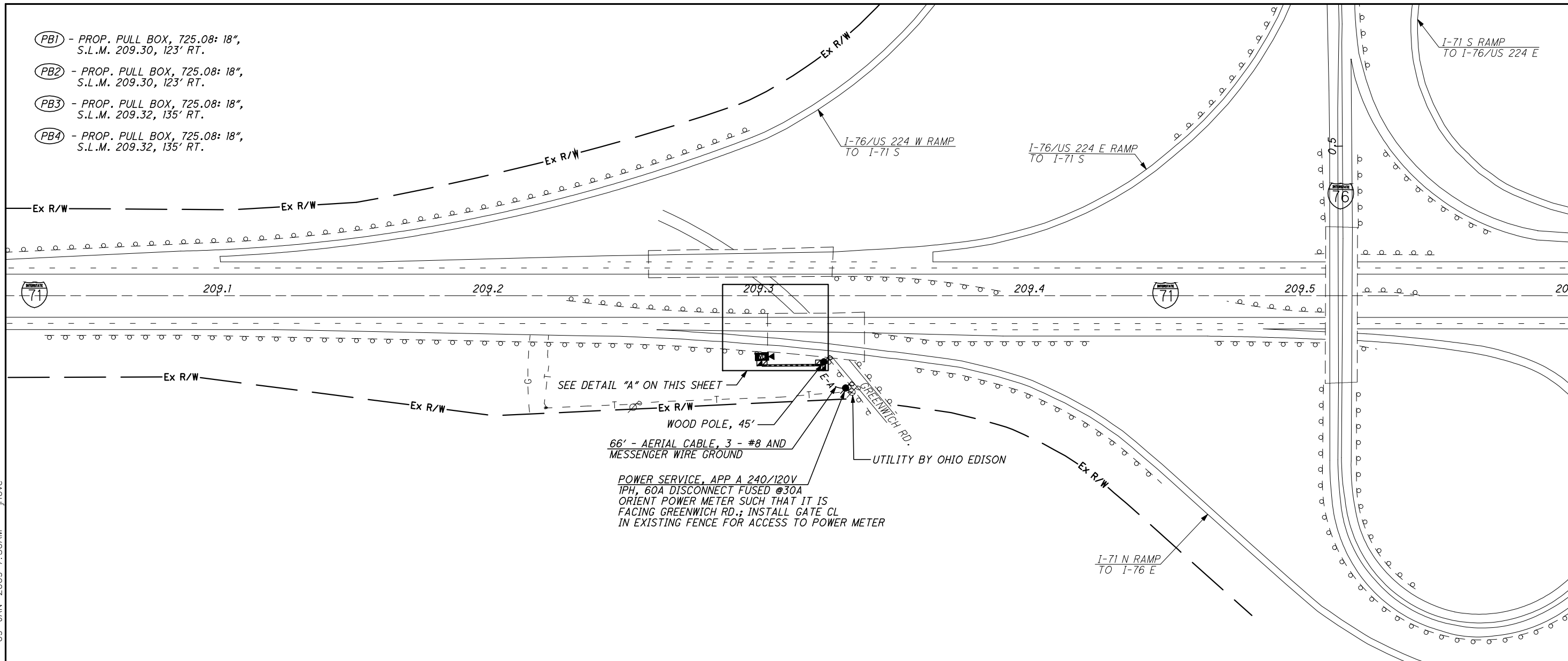
DMS 071002

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I-71 S. OF I-76 (MP 207.76 TO MP 208.34)
 WESTFIELD TOWNSHIP, MEDINA COUNTY

STA-SUM ITS

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 209.30, 123' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 209.30, 123' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 209.32, 135' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 209.32, 135' RT.



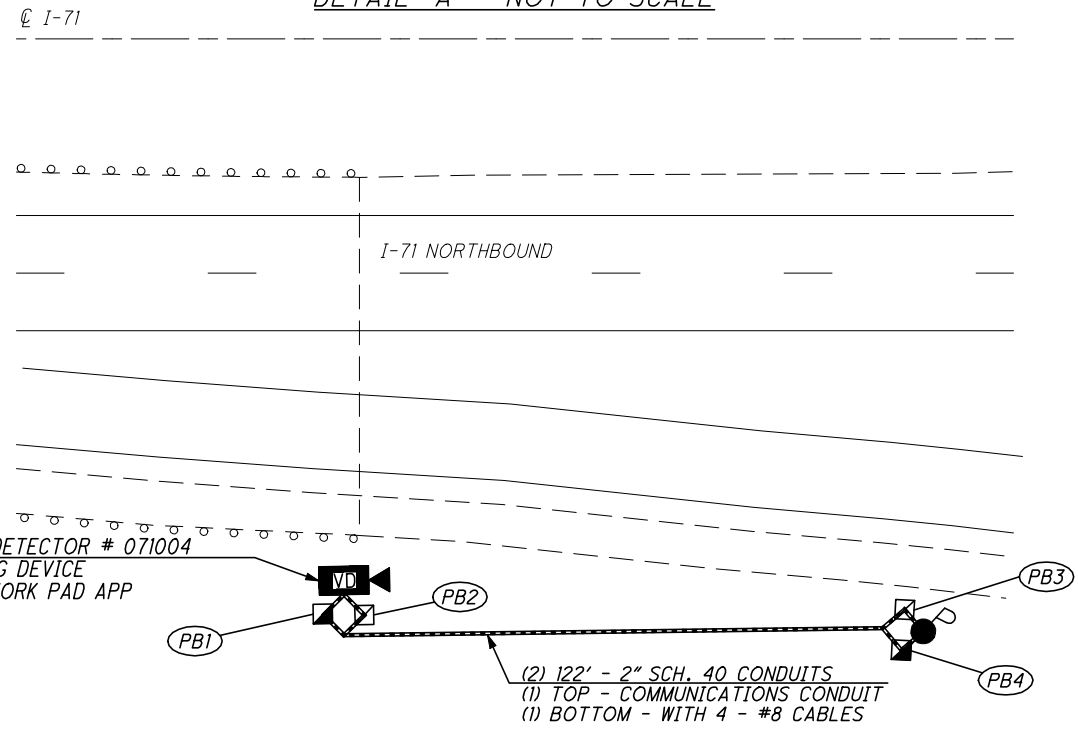
CALCULATED STS CHECKED JDC

0 50 100 200
HORIZONTAL SCALE IN FEET

I-71 AT I-76 (MP 209.01 TO MP 209.59)
WESTFIELD TOWNSHIP, MEDINA COUNTY

STA-SUM ITS

DETAIL "A" - NOT TO SCALE

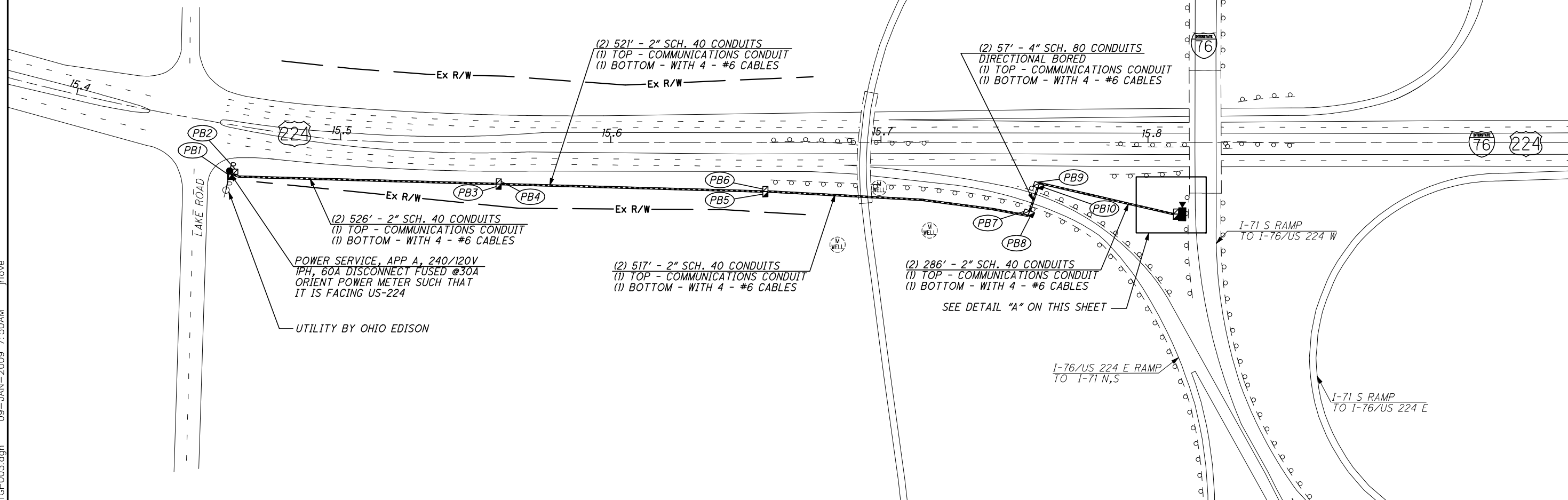


- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 132 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 144 FOR TYPICAL CCTV W/VD T-1 COMMUNICATIONS DETAILS

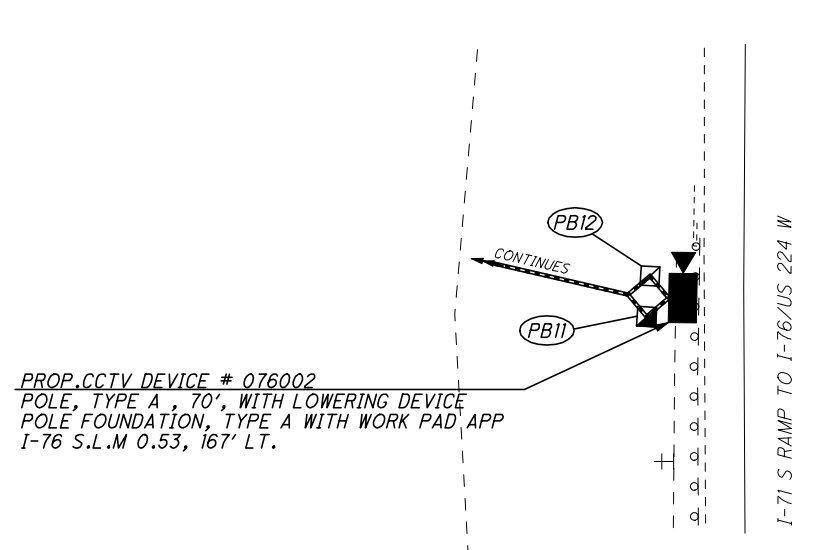
CCTV 071004

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP002.dgn 09-JAN-2009 7:50AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.46, 95' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.46, 95' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.56, 81' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.56, 81' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.66, 96' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.66, 96' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.75, 138' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.75, 138' RT.
- (PB9) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.76, 84' RT.
- (PB10) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.76, 84' RT.
- (PB11) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.81, 140' RT.
- (PB12) - PROP. PULL BOX, 725.08: 18", US-224 S.L.M. 15.81, 140' RT.



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 076002

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET


I-76 AT US-224 (MP 0.46-0.70/ MP 15.42-15.90)
WESTFIELD TOWNSHIP, MEDINA COUNTY

STA-SUM ITS

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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 10.62, 74' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 10.64, 60' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 10.65, 86' RT.





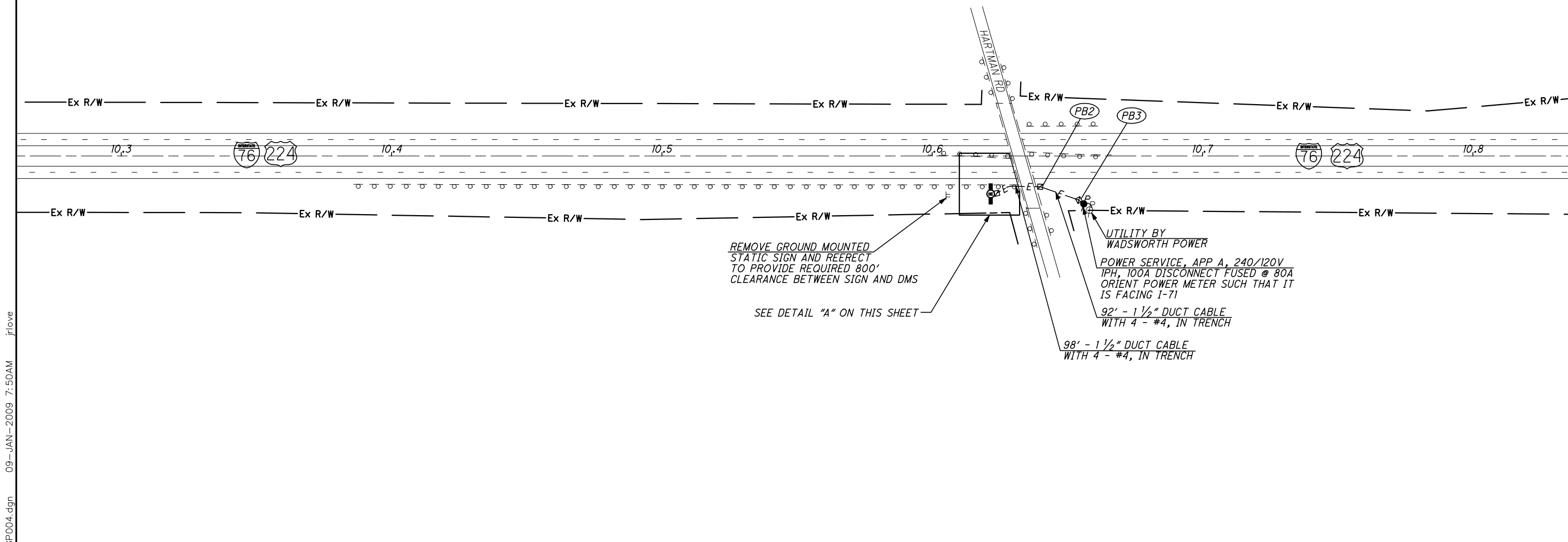
 HORIZONTAL SCALE IN FEET

CALCULATED STS
 CHECKED JDG

I-76 AT HARTMAN RD. (MP 10.26 TO MP 10.84)
WADSWORTH TOWNSHIP, MEDINA COUNTY

STA-SUM ITS

55
 154



REMOVE GROUND MOUNTED
 STATIC SIGN AND REERECT
 TO PROVIDE REQUIRED 800'
 CLEARANCE BETWEEN SIGN AND DMS

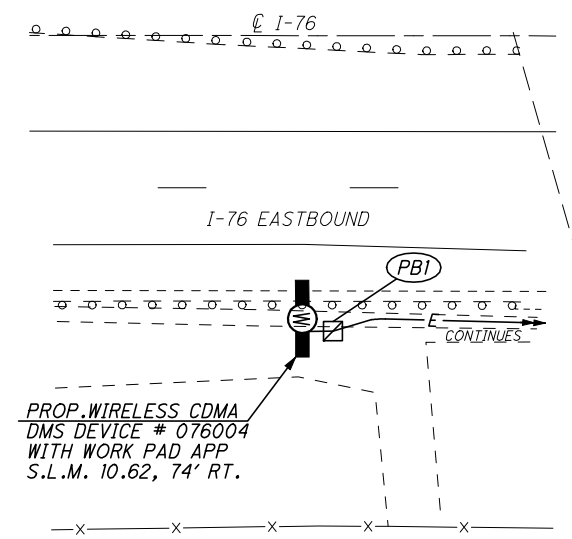
SEE DETAIL "A" ON THIS SHEET

UTILITY BY
 WADSWORTH POWER
 POWER SERVICE, APP A, 240/120V
 1PH, 100A DISCONNECT FUSED @ 80A
 ORIENT POWER METER SUCH THAT IT
 IS FACING I-76

92' - 1 1/2" DUCT CABLE
 WITH 4 - #4, IN TRENCH

 98' - 1 1/2" DUCT CABLE
 WITH 4 - #4, IN TRENCH

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

DMS 076004

\\C:\ew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP004.dgn 09-JAN-2009 7:50AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.42, 80' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.42, 80' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.43, 465' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.43, 465' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.42, 505' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.42, 505' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.42, 603' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.42, 603' LT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.43, 632' LT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.43, 632' LT.
- (PB11) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.44, 692' LT.
- (PB12) - PROP. PULL BOX, 725.08: 18", S.L.M. 13.44, 692' LT.

(2) 43' - 4" SCH. 80 CONDUITS
 DIRECTIONAL BORED
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

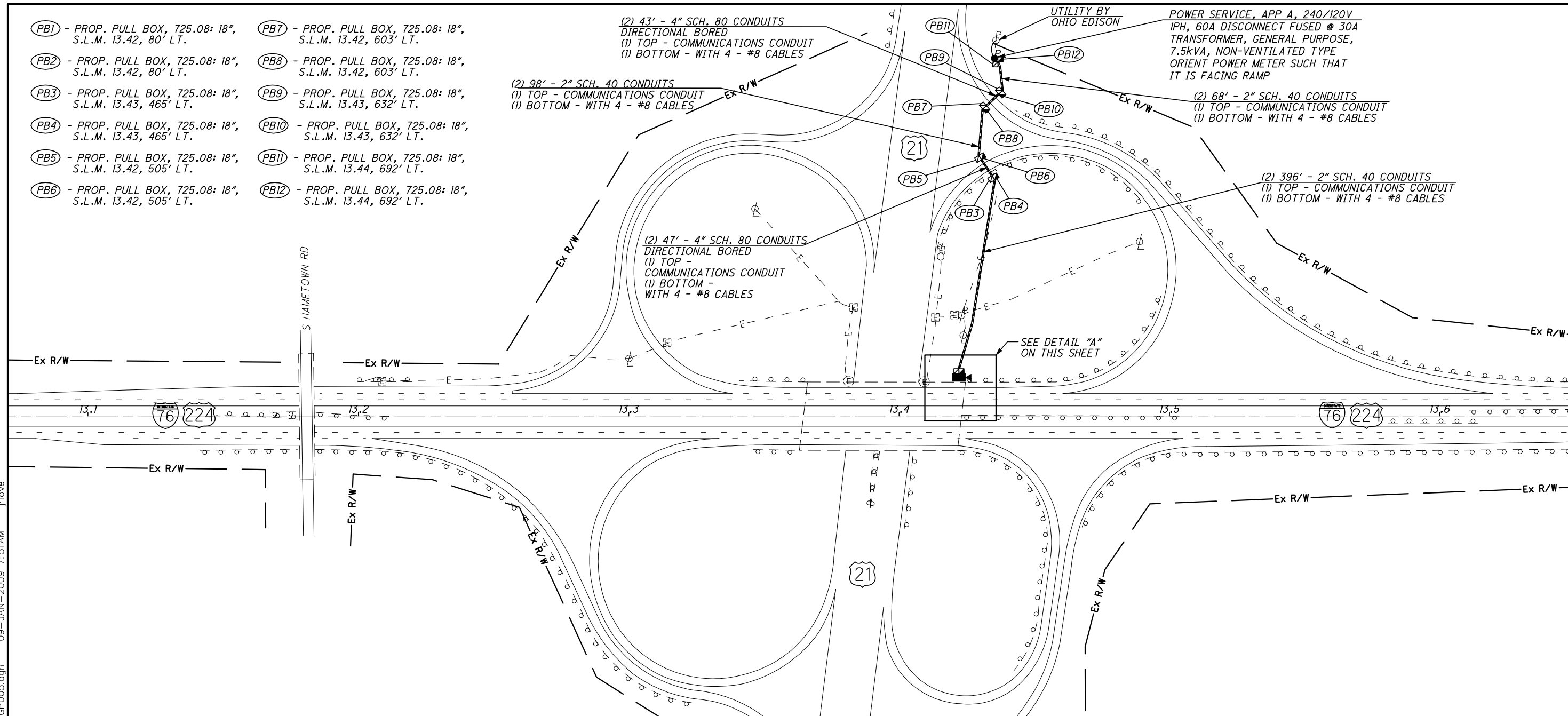
(2) 98' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

(2) 47' - 4" SCH. 80 CONDUITS
 DIRECTIONAL BORED
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

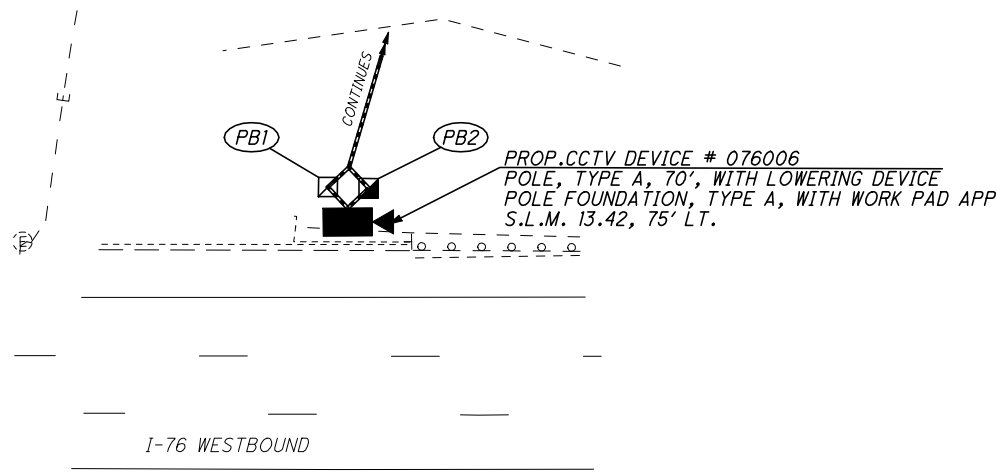
(2) 68' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

(2) 396' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

UTILITY BY OHIO EDISON
 POWER SERVICE, APP A, 240/120V
 IPH, 60A DISCONNECT FUSED @ 30A
 TRANSFORMER, GENERAL PURPOSE,
 7.5KVA, NON-VENTILATED TYPE
 ORIENT POWER METER SUCH THAT
 IT IS FACING RAMP



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

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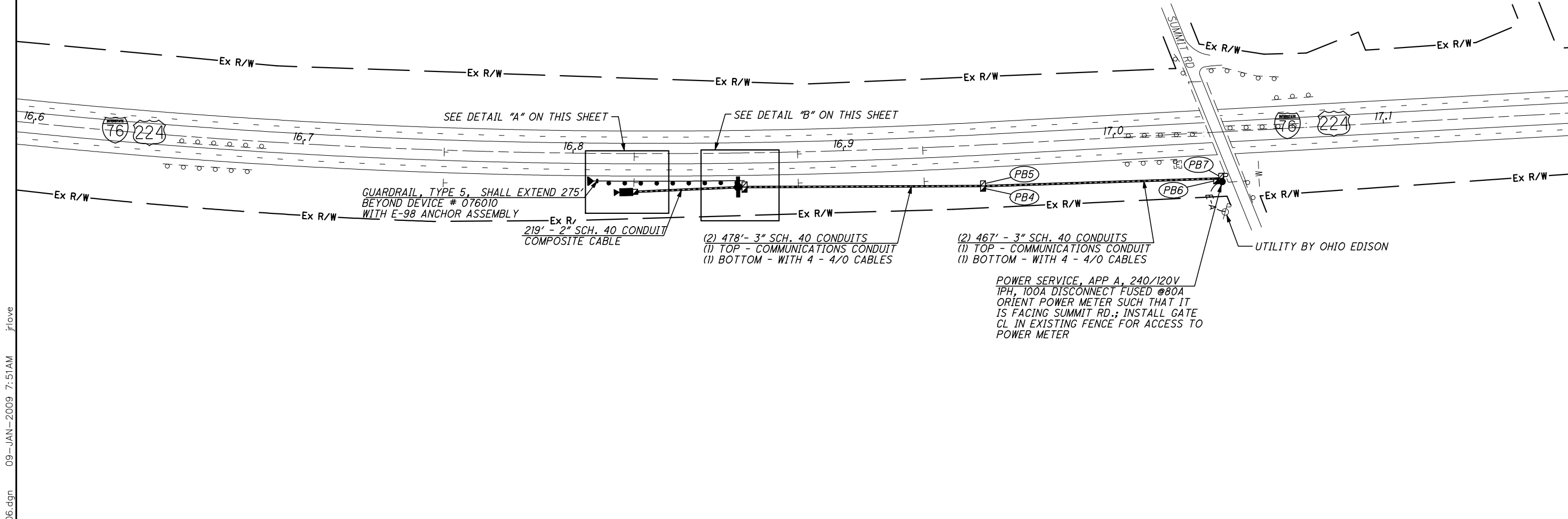
I-76 AT US-21 (MP 13.07 TO MP 13.65)
 CITY OF NORTON, SUMMIT COUNTY
 STA-SUM ITS
 56
 154

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 16.82, 75' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 16.86, 68' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 16.86, 68' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 16.95, 80' RT.

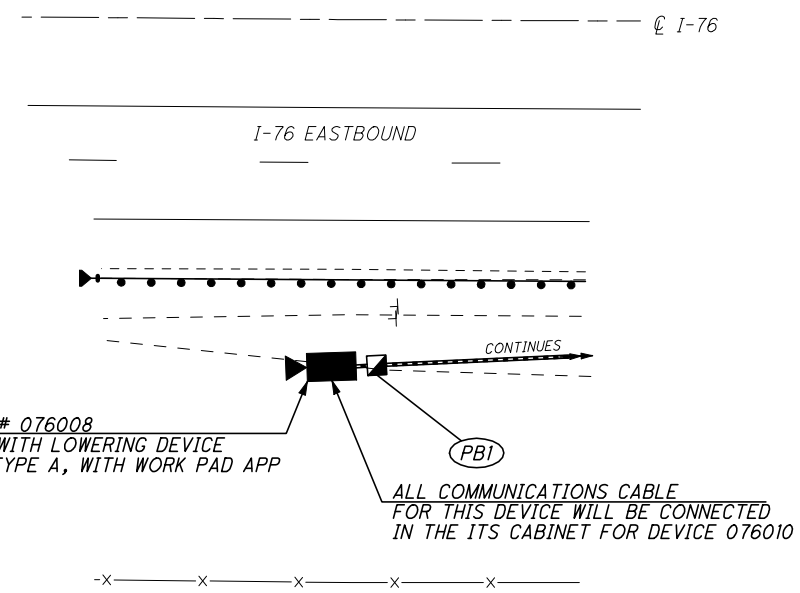
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 16.95, 80' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.04, 91' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.04, 91' RT.

CALCULATED STS CHECKED JDG

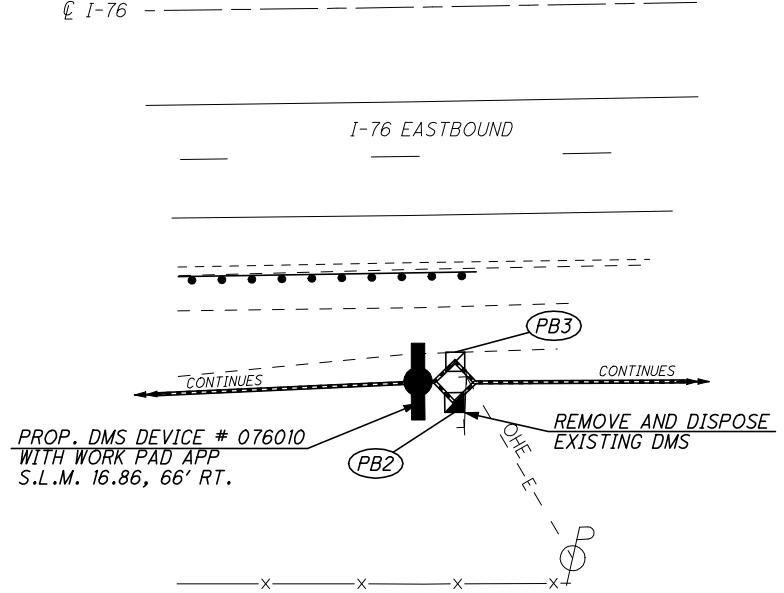
HORIZONTAL SCALE IN FEET



DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 153 FOR TYPICAL CCTV-DMS SHARED EOC COMMUNICATIONS DETAILS
- REFER TO SHEET 154 FOR TYPICAL CCTV-DMS W/ COMPOSITE CABLE COMMUNICATIONS DETAILS

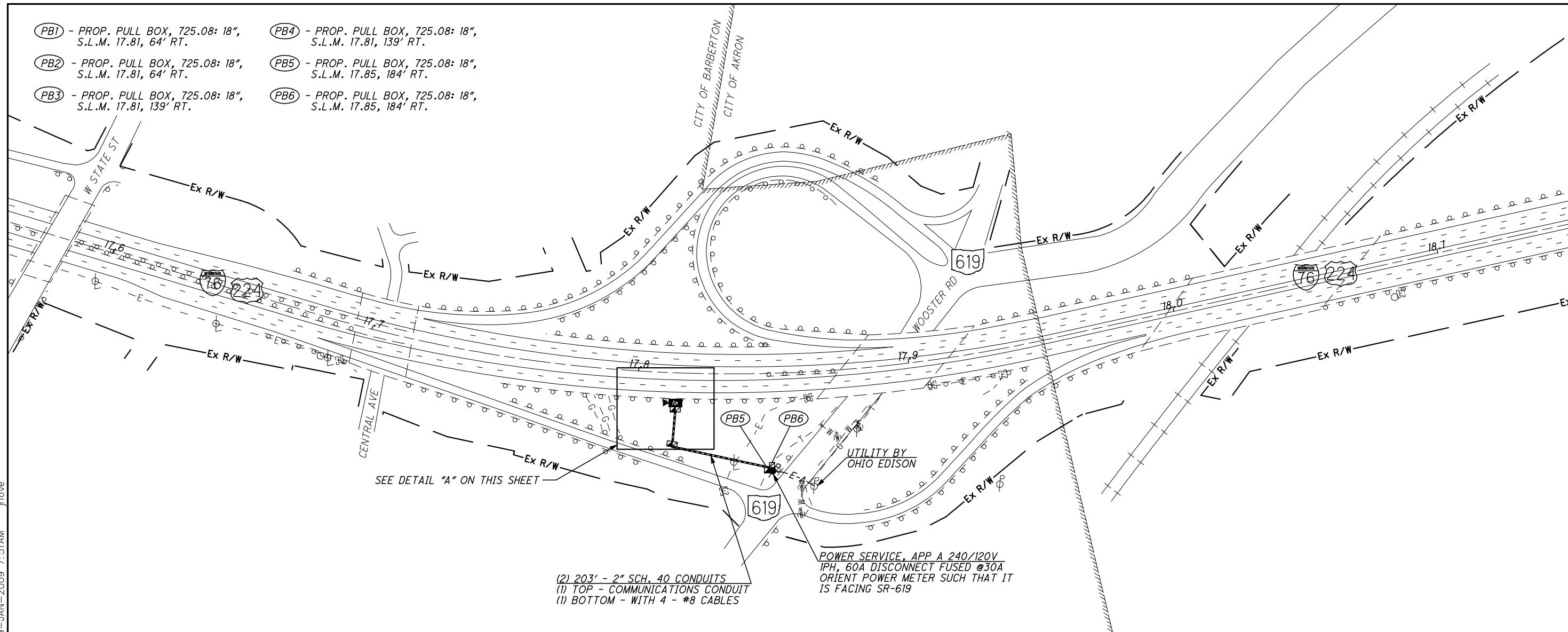
CCTV 076008
DMS 076010

I-76 AT SUMMIT RD. (MP 16.6 TO MP 17.1)
CITY OF NORTON, SUMMIT COUNTY

STA-SUM ITS

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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.81, 64' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.81, 64' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.81, 139' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.81, 139' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.85, 184' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 17.85, 184' RT.

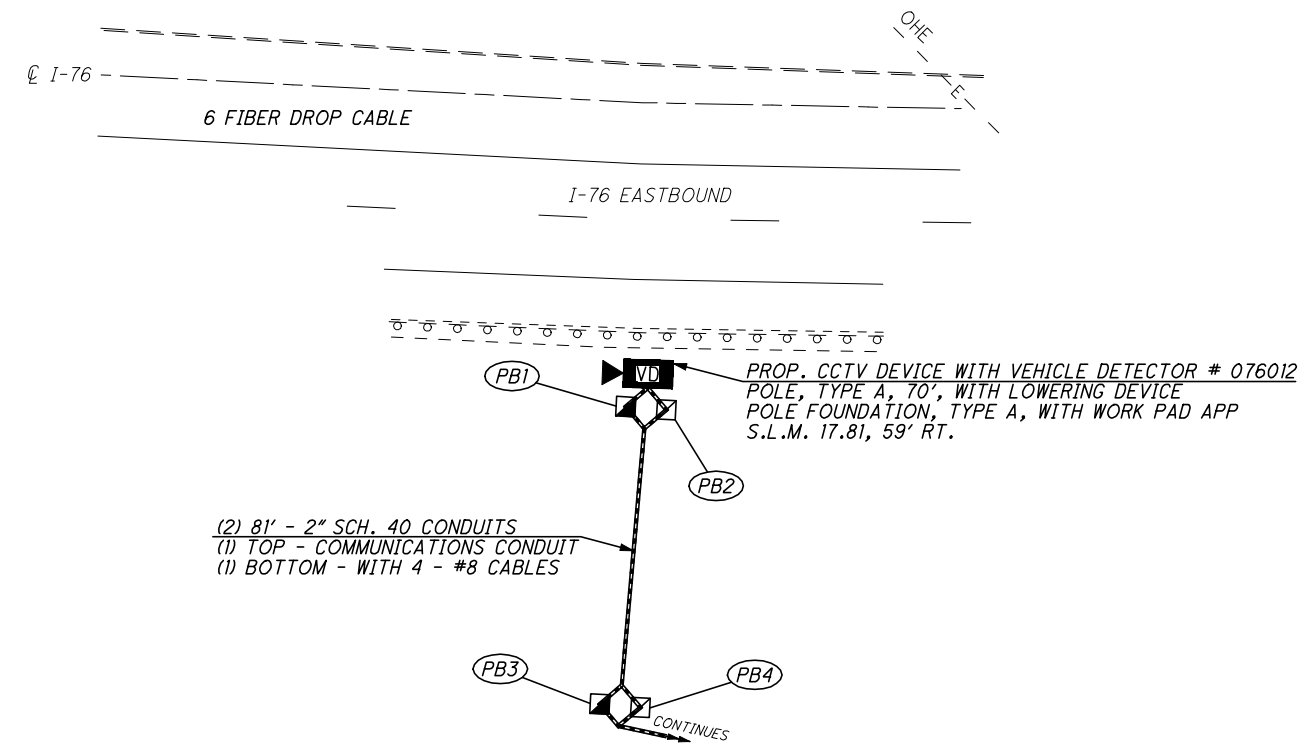


(2) 203' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

UTILITY BY OHIO EDISON
 POWER SERVICE, APP A 240/120V
 1PH, 60A DISCONNECT FUSED @30A
 ORIENT POWER METER SUCH THAT IT IS FACING SR-619

SEE DETAIL "A" ON THIS SHEET

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 146 FOR TYPICAL CCTV W/V D EOC COMMUNICATIONS DETAILS

CCTV 076012

CALCULATED STS CHECKED JDG

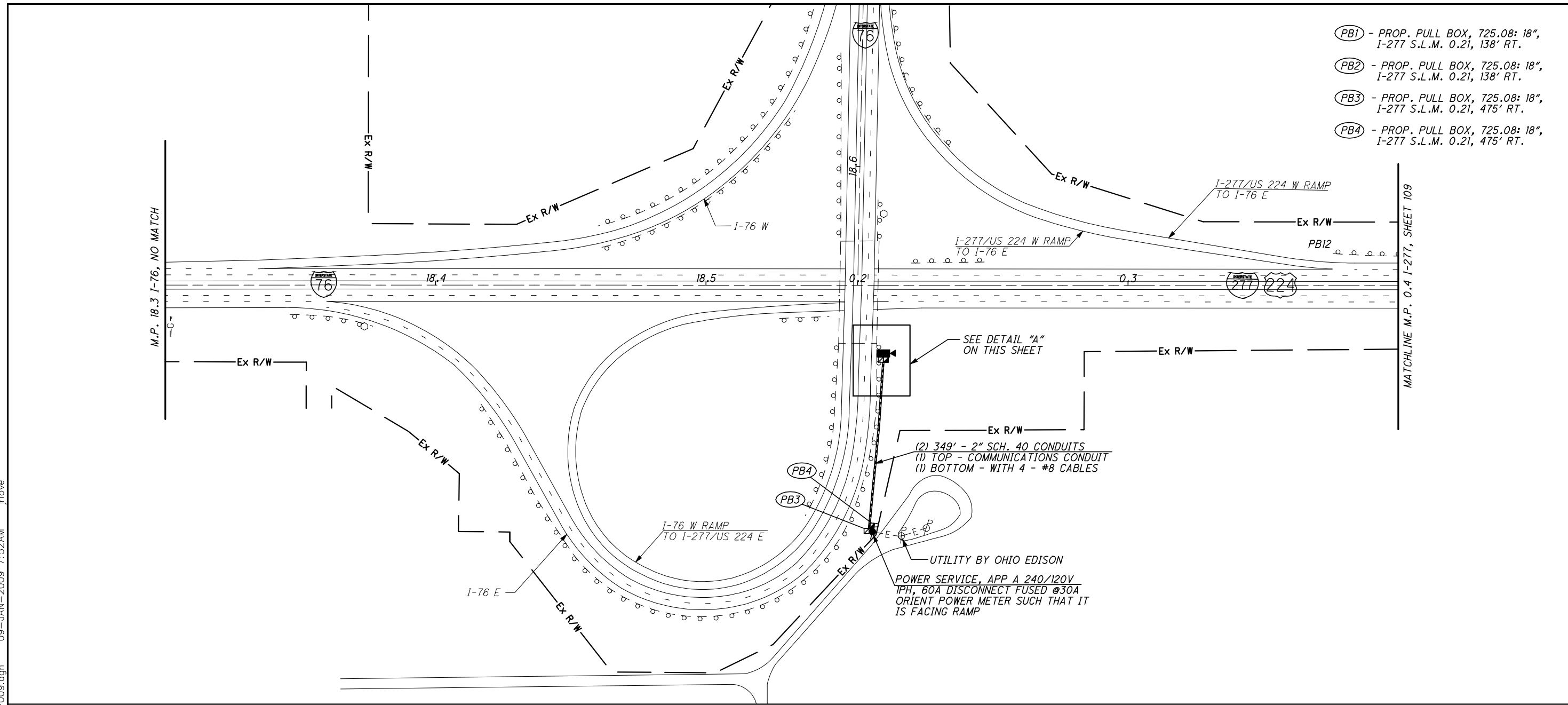
HORIZONTAL SCALE IN FEET

I-76 AT SR-619 (MP 17.6 TO MP 18.1)
 CITY OF BARBERTON, SUMMIT COUNTY

STA-SUM ITS

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\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP009.dgn 09-JAN-2009 7:52AM jrlove



- (PB1) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 0.21, 138' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 0.21, 138' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 0.21, 475' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 0.21, 475' RT.

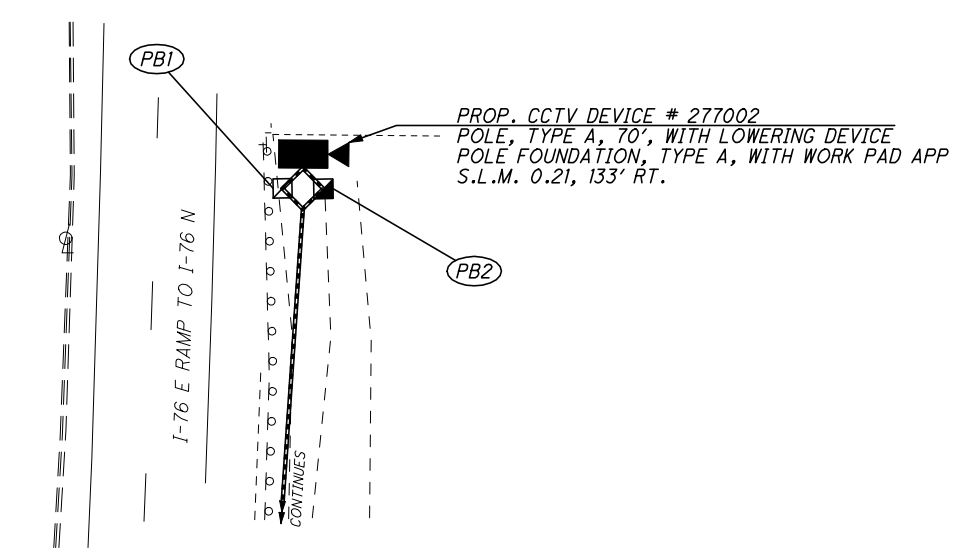
CALCULATED STS CHECKED JDC

0 50 100 200
HORIZONTAL SCALE IN FEET

I-76 AT I-277 (MP 18.1 TO MP 18.68)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

DETAIL "A" - NOT TO SCALE



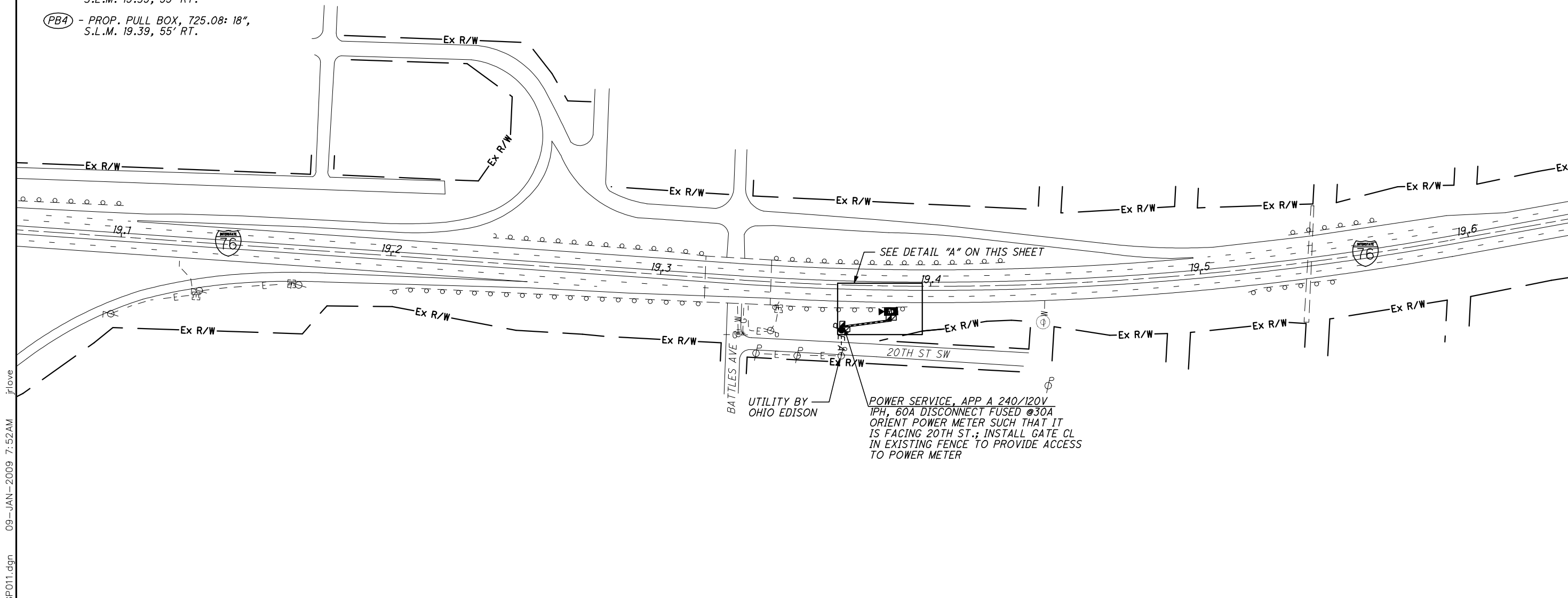
REFER TO SHEET 11 FOR CONDUIT DETAILS
REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
REFER TO SHEET 138 FOR TYPICAL COMMUNICATIONS PLANS
REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 19.37, 81' RT.

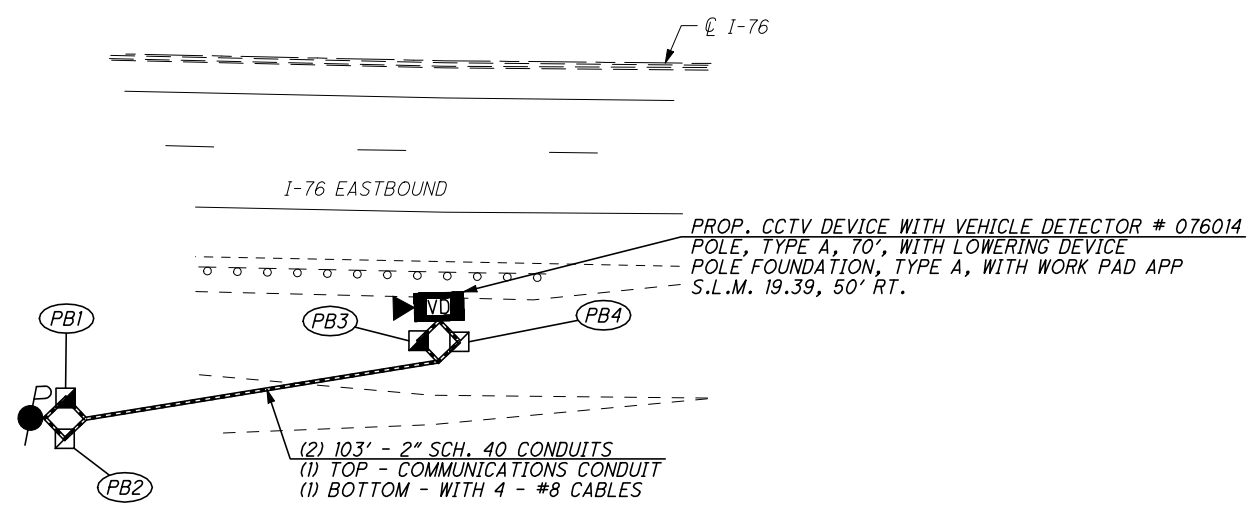
(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 19.37, 81' RT.

(PB3) - PROP. PULL BOX, 725.08: 18",
S.L.M. 19.39, 55' RT.

(PB4) - PROP. PULL BOX, 725.08: 18",
S.L.M. 19.39, 55' RT.



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 076014

CALCULATED STS CHECKED JDC

HORIZONTAL SCALE IN FEET

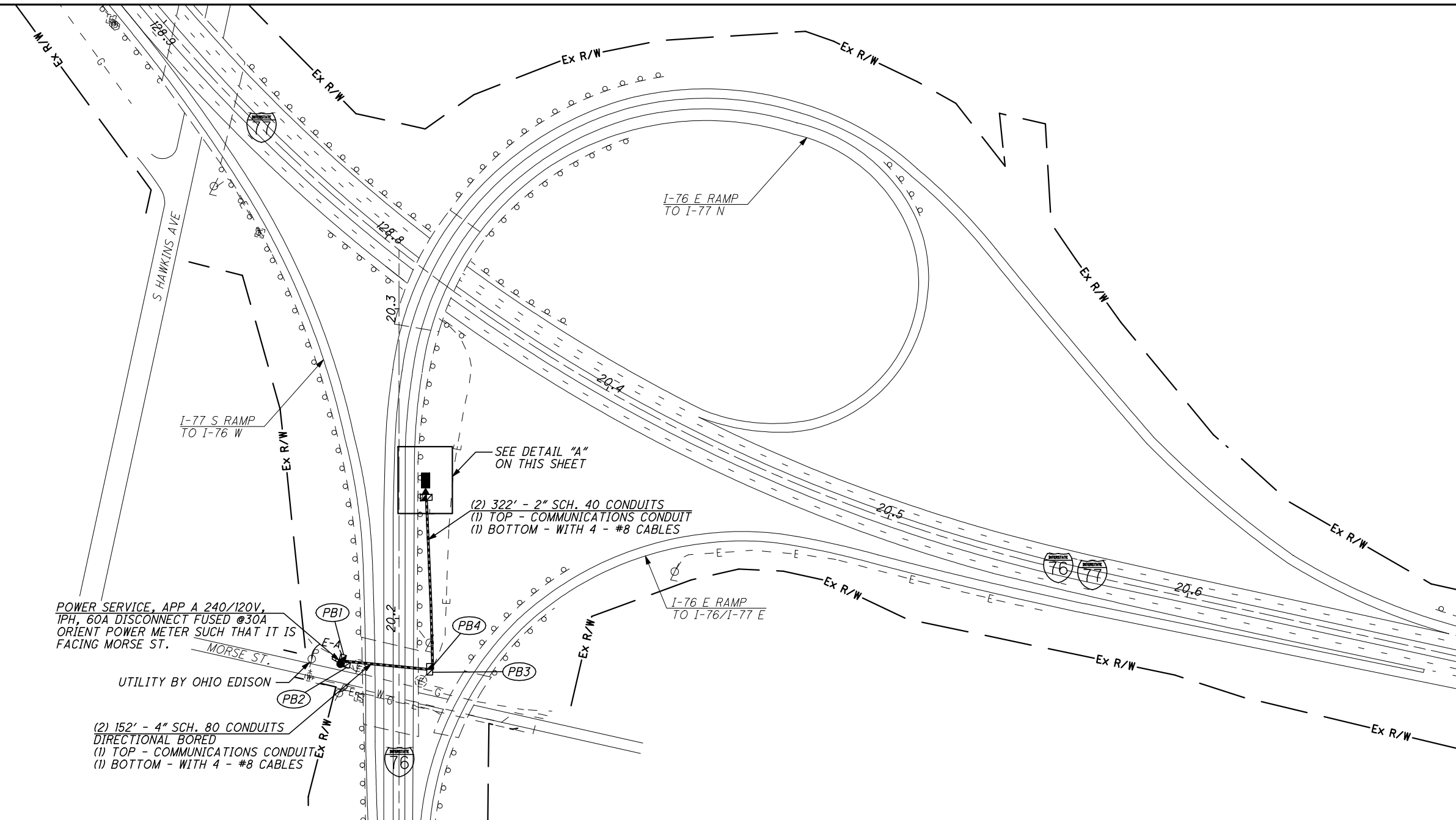
I-76 AT BATTLES AVE. (MP 19.1 TO MP 19.6)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

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154

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- (PB1) - PROP. PULL BOX, 725.08: 18",
I-76 S.L.M. 20.18, 92' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18",
I-76 S.L.M. 20.18, 92' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18",
I-76 S.L.M. 20.18, 52' RT.
- (PB4) - PROP. PULL BOX, 725.08, 18",
I-76 S.L.M. 20.19, 52' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18",
I-76 S.L.M. 20.24, 37' RT.
- (PB6) - PROP. PULL BOX, 725.08, 18",
I-76 S.L.M. 20.24, 37' RT.

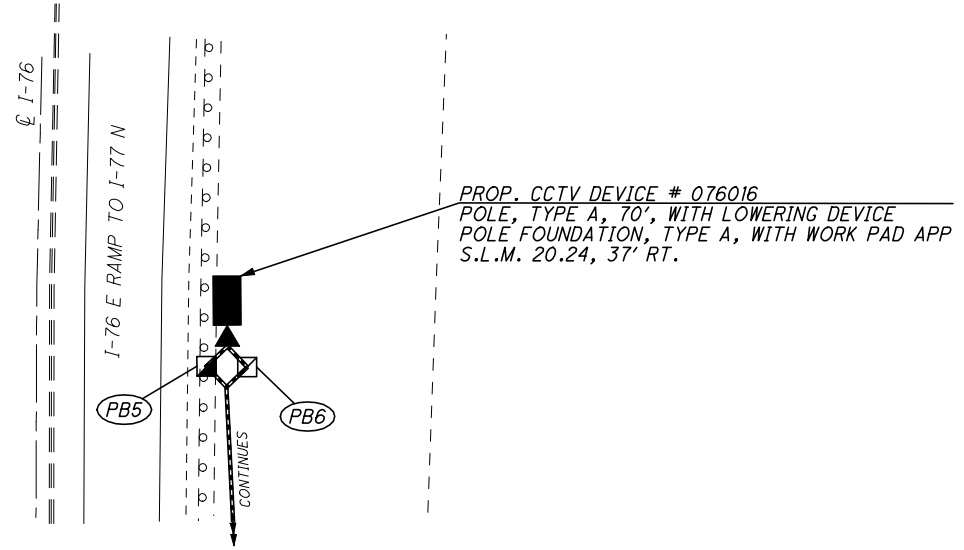


POWER SERVICE, APP A 240/120V,
1PH, 60A DISCONNECT FUSED @30A
ORIENT POWER METER SUCH THAT IT IS
FACING MORSE ST.

(2) 152' - 4" SCH. 80 CONDUITS
DIRECTIONAL BORED
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

(2) 322' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLAN
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 076016

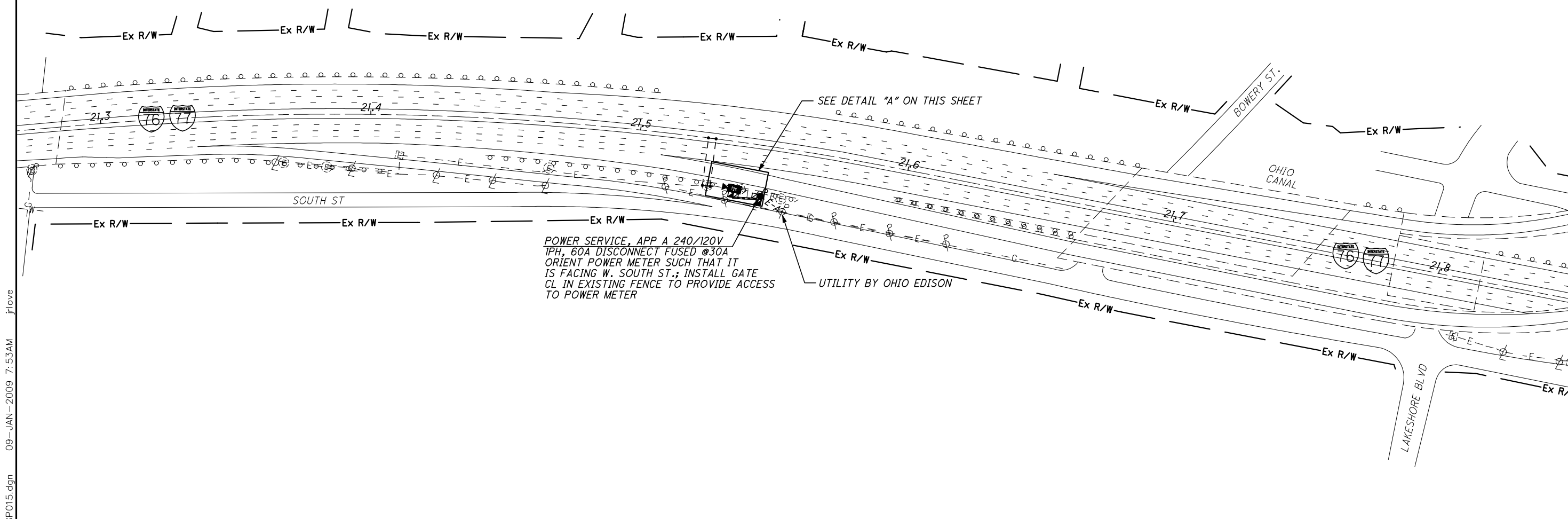
CALCULATED STS CHECKED JDG

I-76 AT I-77 (MP 20.1 TO MP 20.6)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

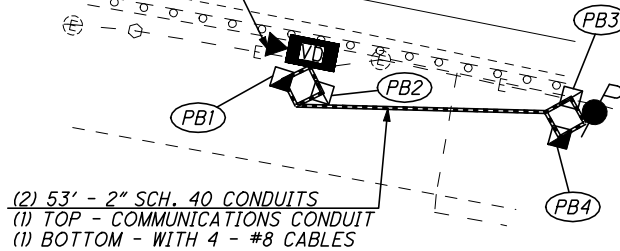
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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 21.45, 97' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 21.55, 97' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 21.56, 105' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 21.56, 105' RT.



DETAIL "A" - NOT TO SCALE

PROP. CCTV DEVICE WITH VEHICLE DETECTOR # 076018 POLE, TYPE A, 70', WITH LOWERING DEVICE POLE FOUNDATION, TYPE A, WITH WORK PAD APP S.L.M. 21.54, 92' RT.



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS PLANS

CCTV 076018

CALCULATED STS CHECKED JDC

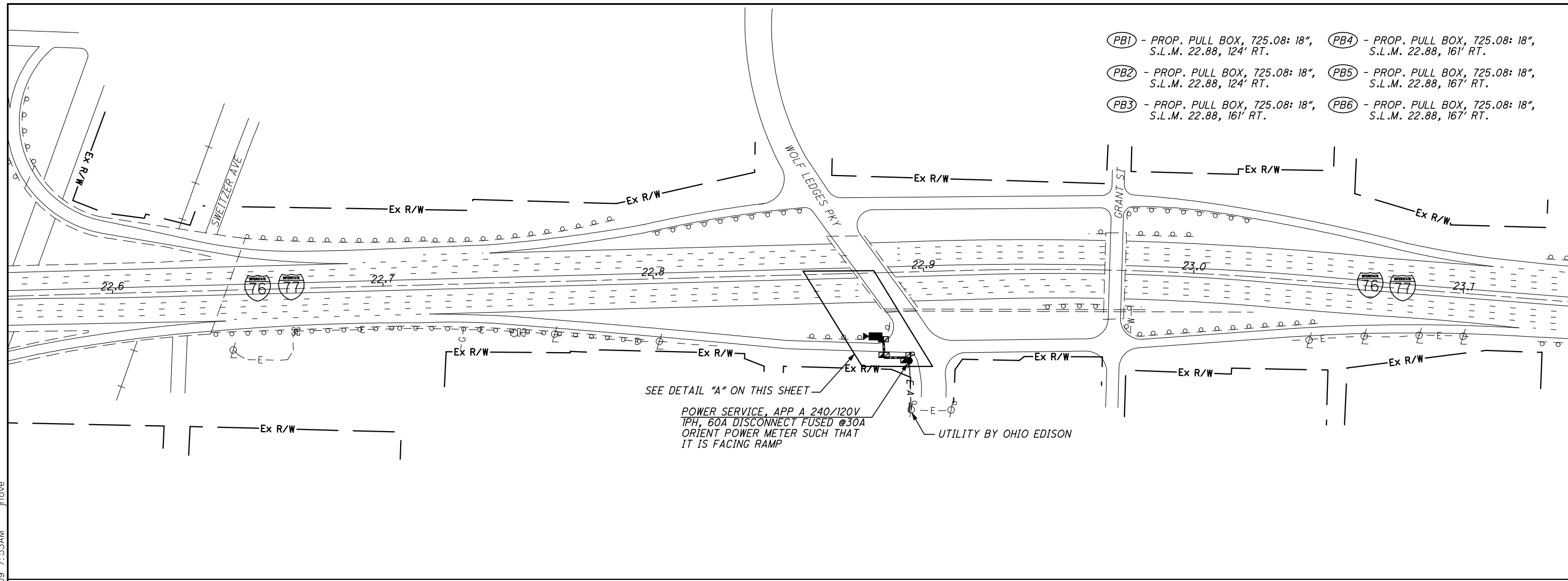
HORIZONTAL SCALE IN FEET

I-76 AT BOWERY ST. (MP 21.27 TO MP 21.85)
 CITY OF AKRON, SUMMIT COUNTY

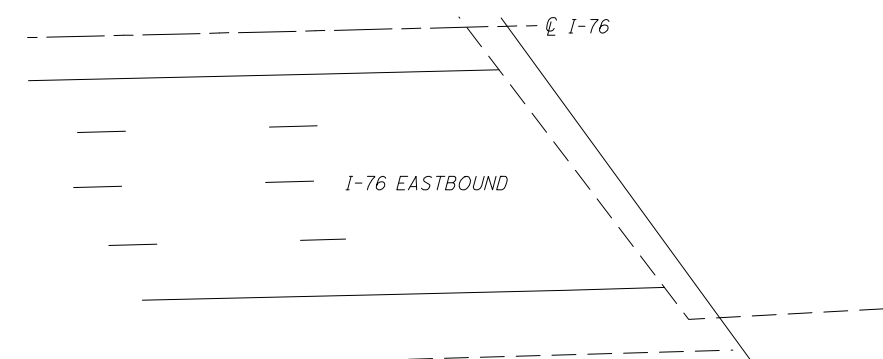
STA-SUM ITS
 62
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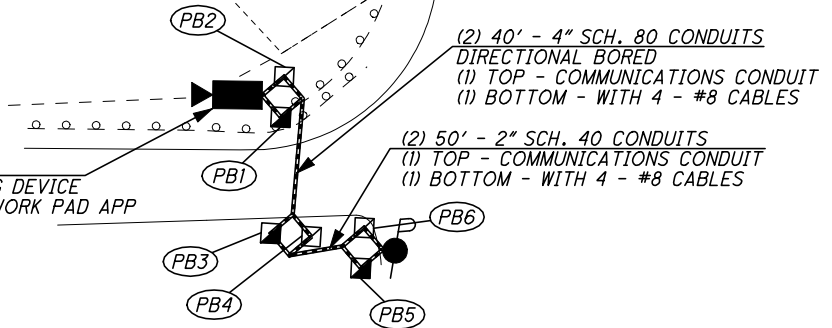
\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP018.dgn 09-JAN-2009 7:53AM jrlove



DETAIL "A" - NOT TO SCALE



PROP. CCTV DEVICE # 076020
 POLE, TYPE A, 70', WITH LOWERING DEVICE
 POLE FOUNDATION, TYPE A, WITH WORK PAD APP
 S.L.M. 22.88, 124' RT.



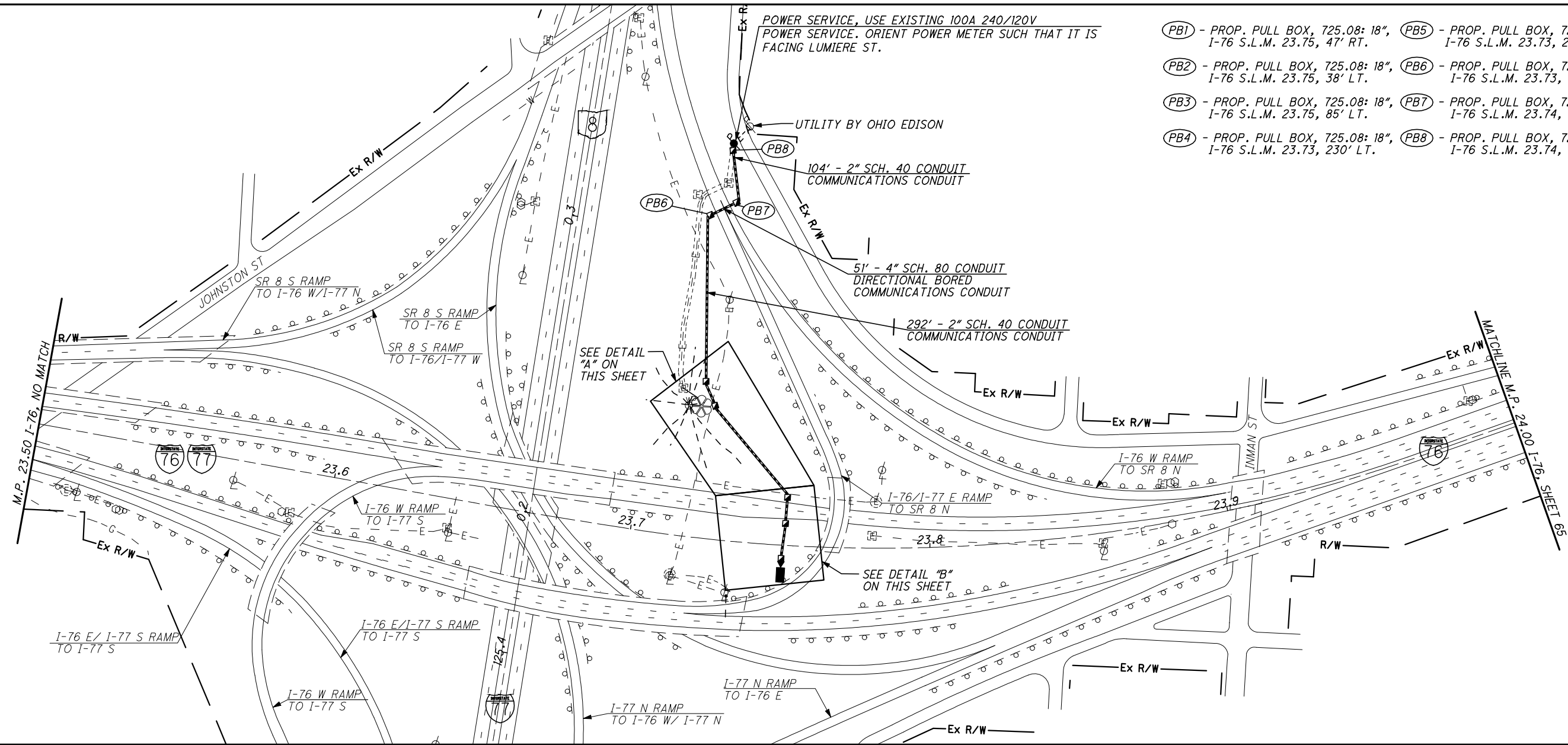
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 076020

I-76 AT WOLF LEDGES PKY. (MP 22.6 TO MP 23.1)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

\\C:\ew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP020.dgn 09-JAN-2009 7:53AM jrlove



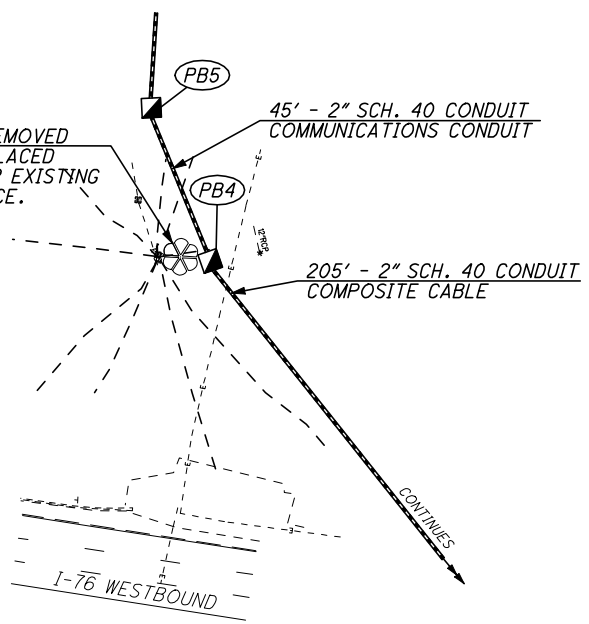
- (PB1) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.75, 47' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.75, 38' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.75, 85' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.73, 230' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.73, 275' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.73, 566' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.74, 594' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", I-76 S.L.M. 23.74, 688' LT.

CALCULATED STS CHECKED JDG

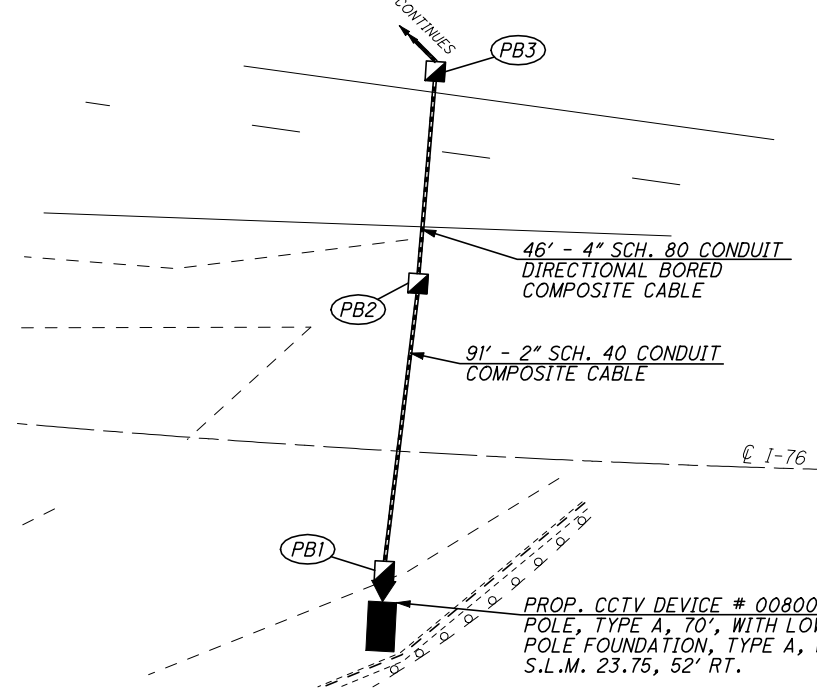
0 50 100 200

HORIZONTAL SCALE IN FEET

DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 18 FOR TYPICAL HAR DETAILS

REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 151 FOR TYPICAL CCTV-HAR SHARED T-1 COMMUNICATIONS DETAILS

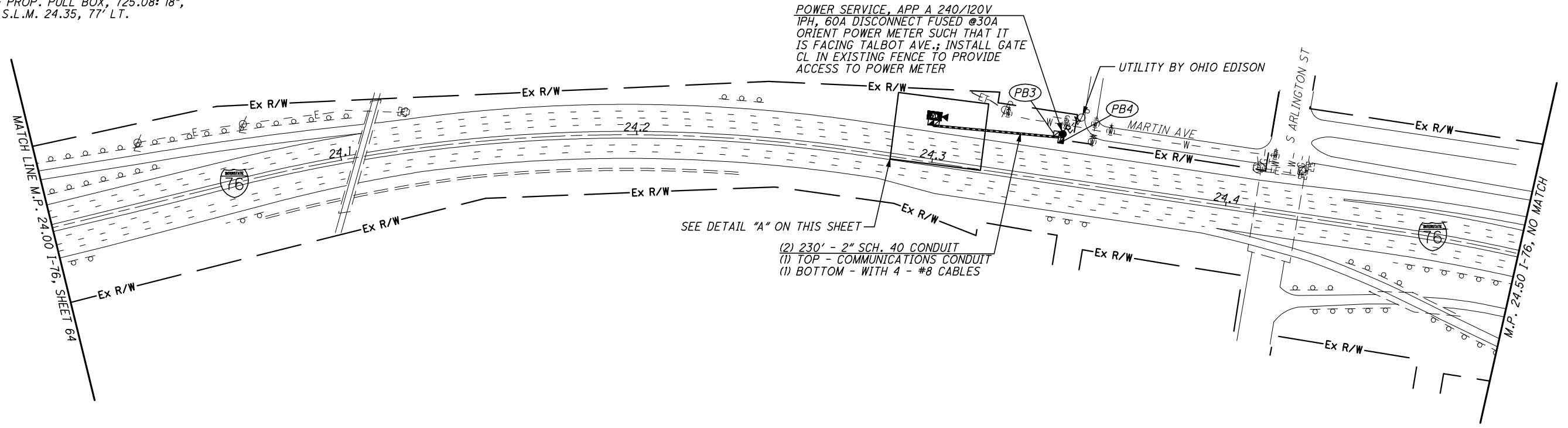
I-76 AT I-77 (MP 23.50 TO MP 24.00)

CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

CCTV 008002
SUMMIT HAR

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 24.30, 78' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 24.30, 78' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 24.35, 77' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 24.35, 77' LT.



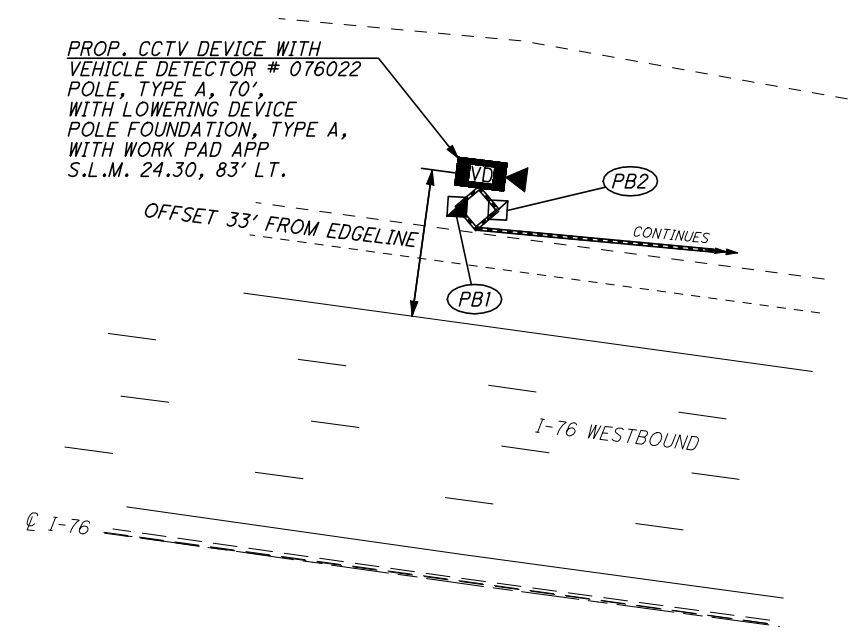
CALCULATED STS CHECKED JDG

0 50 100 200
 HORIZONTAL SCALE IN FEET

I-76 AT ARLINGTON ST. (MP 24.00 TO MP 24.50)
 CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS
 65
 154

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 076022

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP021.dgn 09-JAN-2009 7:53AM jrlove

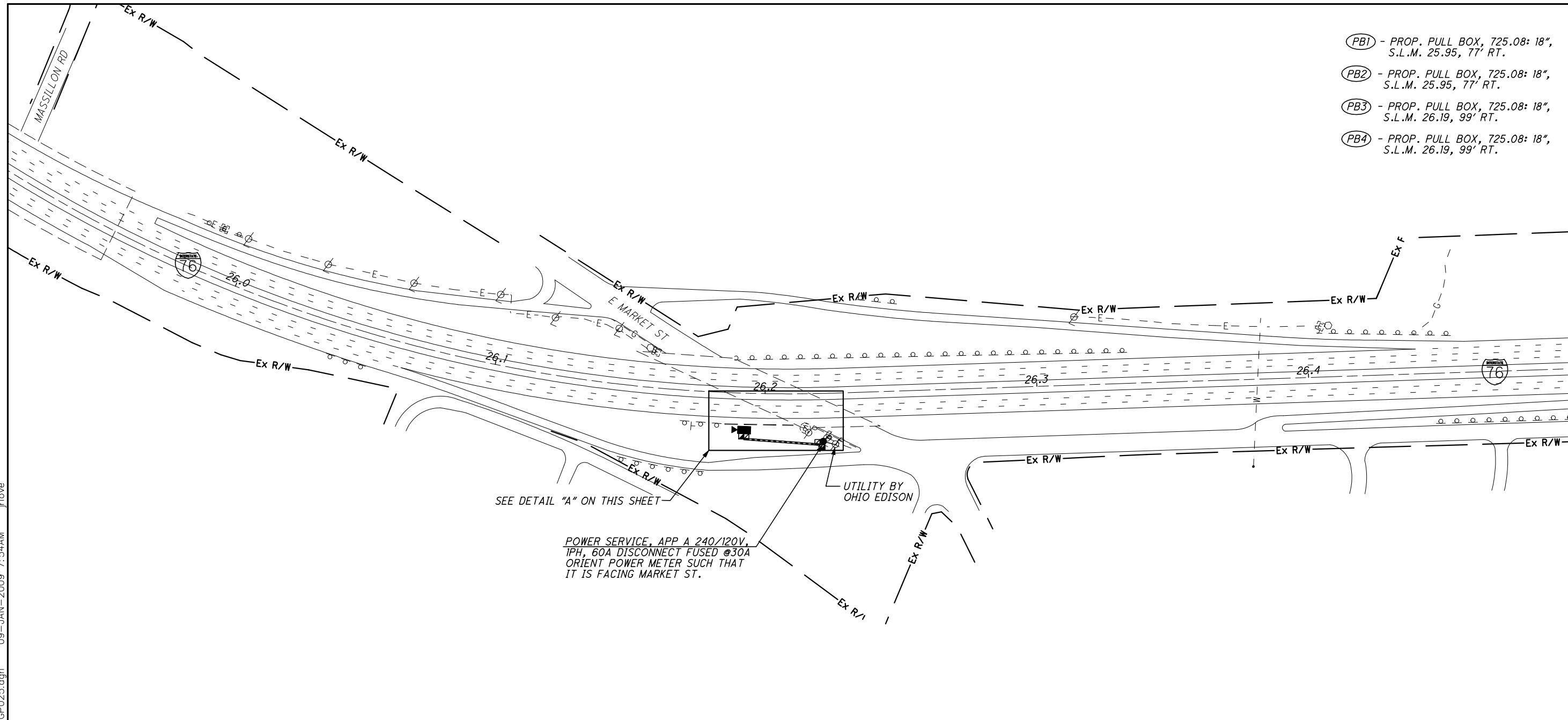


- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 25.95, 77' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 25.95, 77' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 26.19, 99' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 26.19, 99' RT.

CALCULATED STS
CHECKED JDG

I-76 AT MARKET ST. (MP 25.91 TO MP 26.50)
CITY OF AKRON, SUMMIT COUNTY

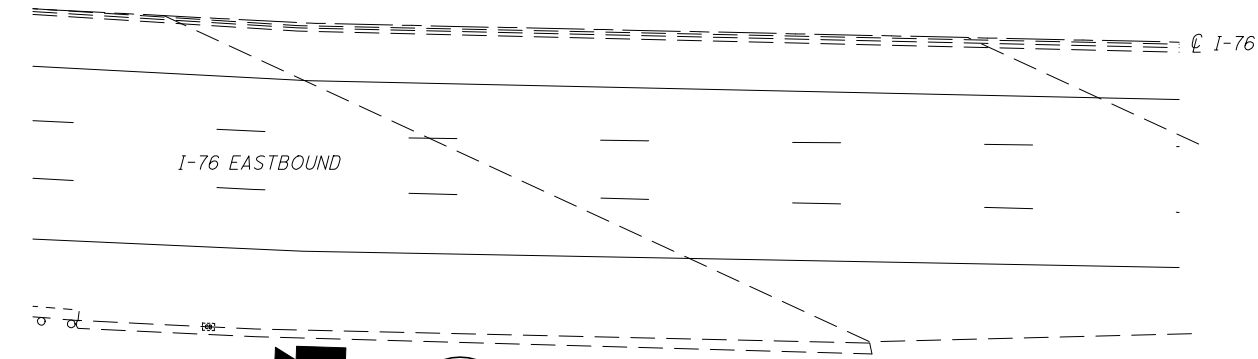
STA-SUM ITS



SEE DETAIL "A" ON THIS SHEET

POWER SERVICE, APP A 240/120V,
1PH, 60A DISCONNECT FUSED @30A
ORIENT POWER METER SUCH THAT
IT IS FACING MARKET ST.

DETAIL "A" - NOT TO SCALE



PROP. CCTV DEVICE # 076024
POLE, TYPE A, 70'
WITH LOWERING DEVICE
POLE FOUNDATION, TYPE A
WITH WORK PAD APP
S.L.M. 26.19, 72' RT.

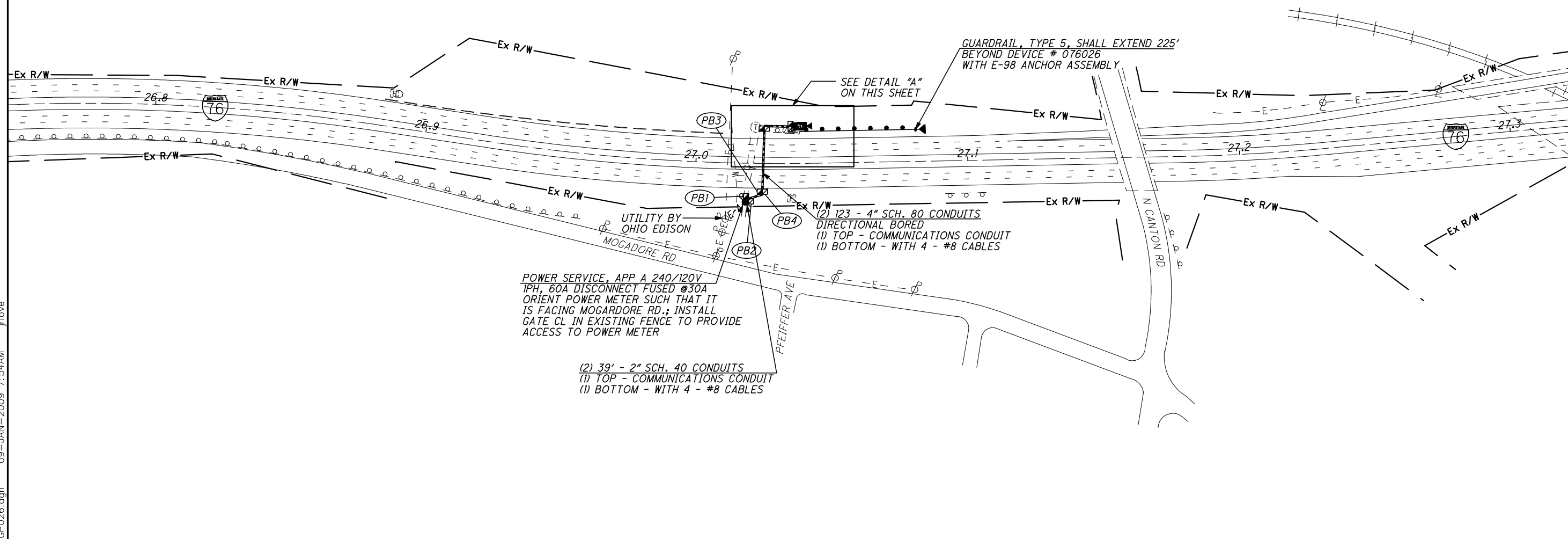
(2) 155' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 076024

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP025.dgn 09-JAN-2009 7:54AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.02, 69' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.02, 69' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.03, 55' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.03, 55' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.03, 67' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.04, 67' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.04, 72' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 27.04, 72' LT.

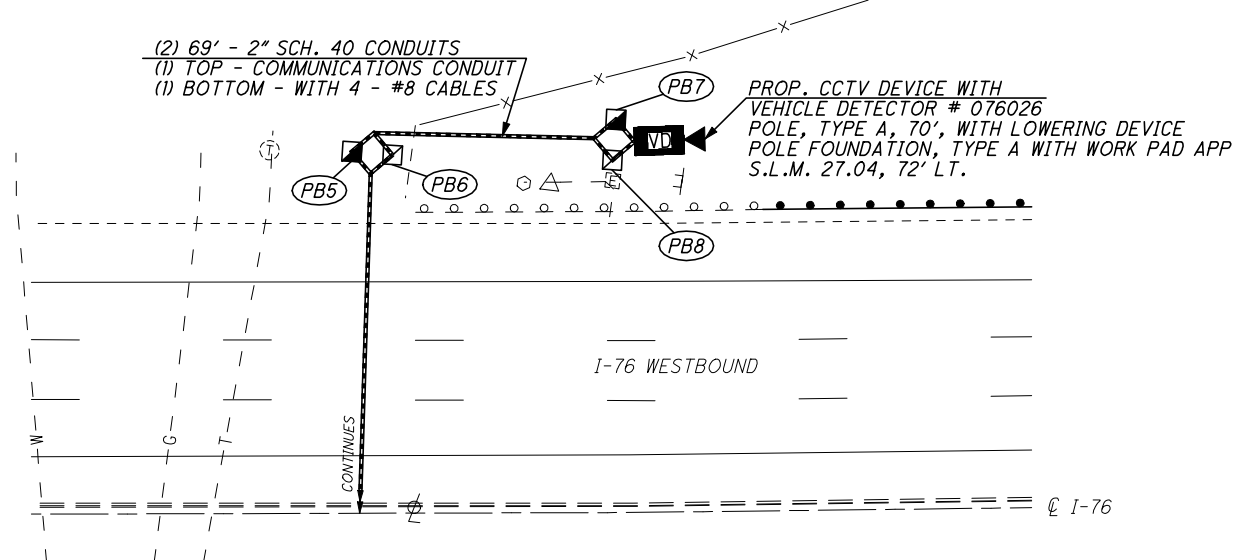


POWER SERVICE, APP A 240/120V
 1PH, 60A DISCONNECT FUSED @30A
 ORIENT POWER METER SUCH THAT IT
 IS FACING MOGADORE RD.; INSTALL
 GATE CL IN EXISTING FENCE TO PROVIDE
 ACCESS TO POWER METER

(2) 39' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

(2) 123' - 4" SCH. 80 CONDUITS
 DIRECTIONAL BORED
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

DETAIL "A" - NOT TO SCALE



(2) 69' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

PROP. CCTV DEVICE WITH
 VEHICLE DETECTOR # 076026
 POLE, TYPE A, 70', WITH LOWERING DEVICE
 POLE FOUNDATION, TYPE A WITH WORK PAD APP
 S.L.M. 27.04, 72' LT.

- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 133 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 146 FOR TYPICAL CCTV W/VD EOC COMMUNICATIONS DETAILS

CCTV 076026

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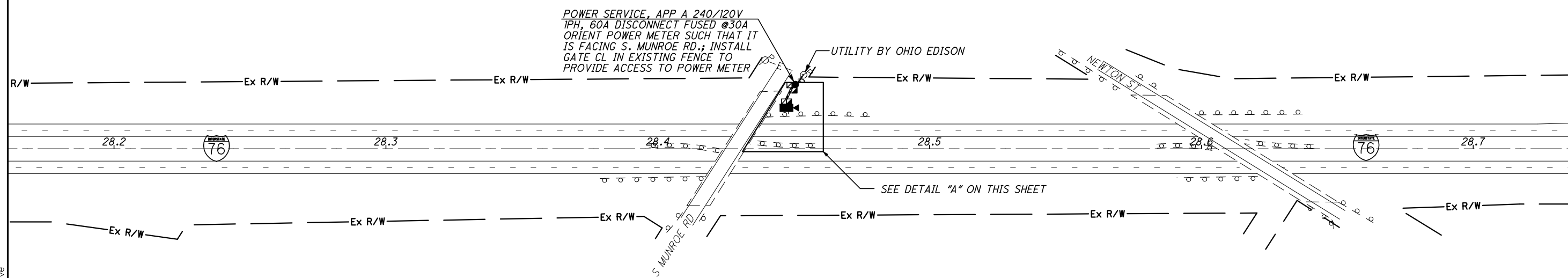


CALCULATED STS CHECKED JDC

I-76 AT MUNROE RD. (MP 28.16 TO MP 28.74)
CITY OF TALLMADGE, SUMMIT COUNTY

STA-SUM ITS

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 28.45, 84' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 28.45, 84' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 28.45, 118' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 28.45, 118' LT.



POWER SERVICE, APP A 240/120V
 1PH, 60A DISCONNECT FUSED @30A
 ORIENT POWER METER SUCH THAT IT
 IS FACING S. MUNROE RD.; INSTALL
 GATE GL IN EXISTING FENCE TO
 PROVIDE ACCESS TO POWER METER

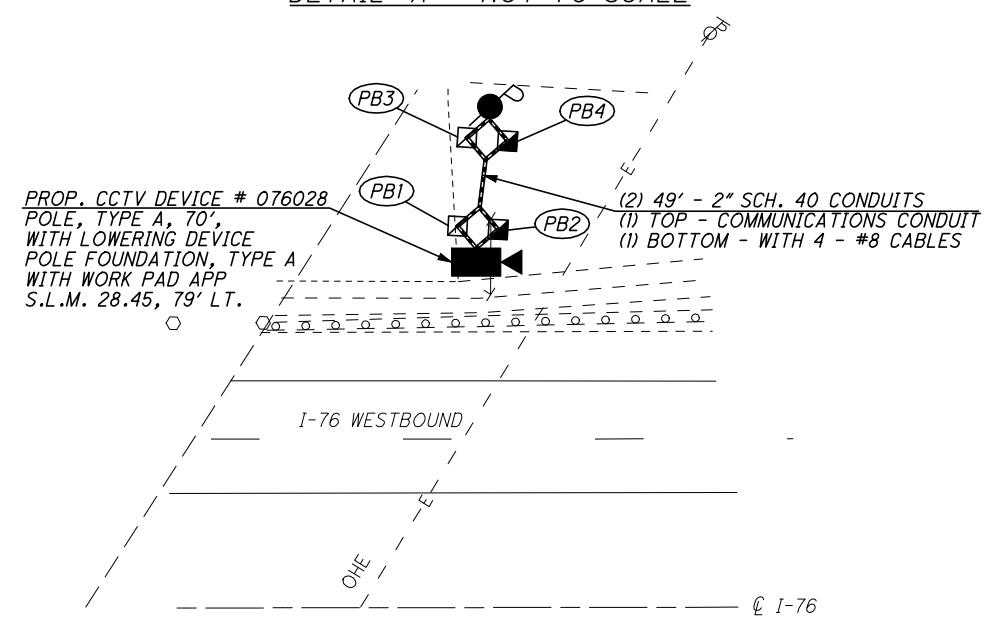
UTILITY BY OHIO EDISON

NEWTON ST

S MUNROE RD

SEE DETAIL "A" ON THIS SHEET

DETAIL "A" - NOT TO SCALE



PROP. CCTV DEVICE # 076028
 POLE, TYPE A, 70'
 WITH LOWERING DEVICE
 POLE FOUNDATION, TYPE A
 WITH WORK PAD APP
 S.L.M. 28.45, 79' LT.

(2) 49' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 134 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP029.dgn 09-JAN-2009 7:54AM jrlove

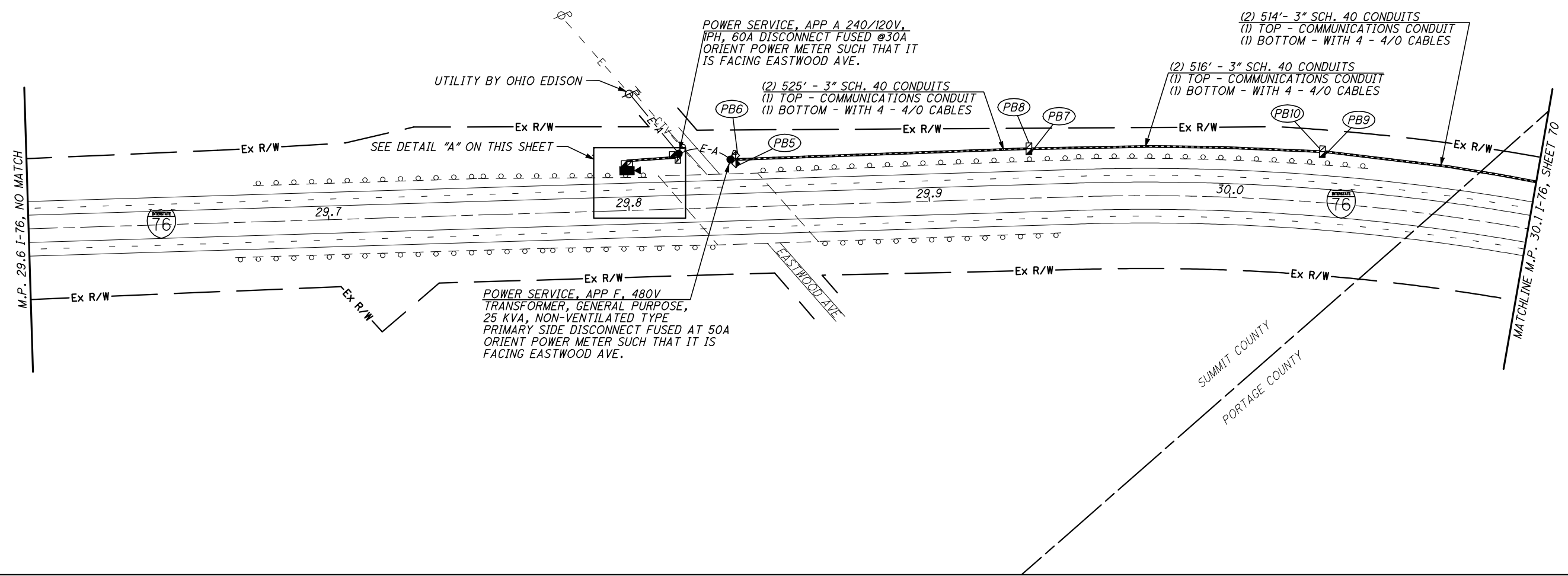


CALCULATED STS CHECKED JDG

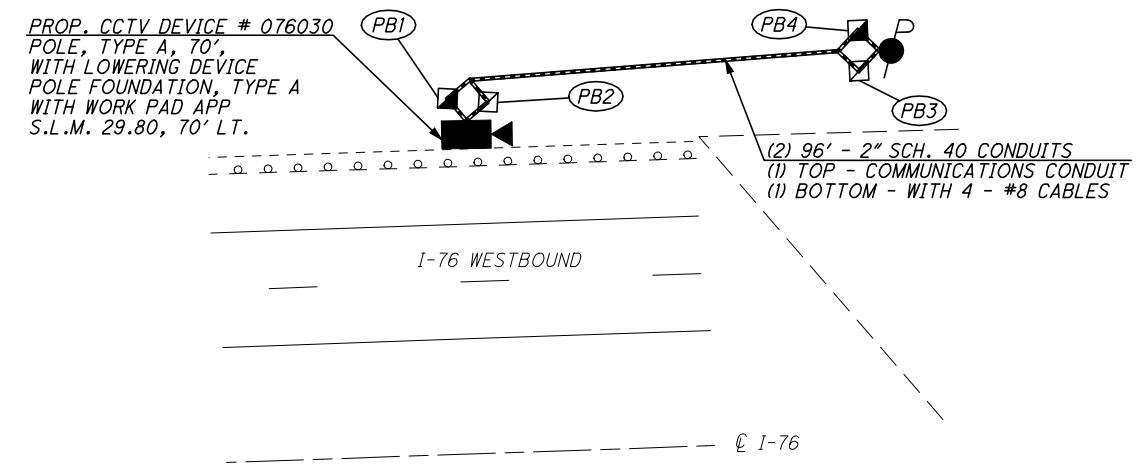
I-76 AT EASTWOOD AVE. (MP 29.6 TO MP 30.1)
CITY OF TALLMADGE, SUMMIT COUNTY

STA-SUM ITS

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.80, 75' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.80, 75' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.81, 91' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.81, 91' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.84, 84' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.84, 84' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.93, 87' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 29.93, 87' LT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.03, 90' LT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.03, 90' LT.



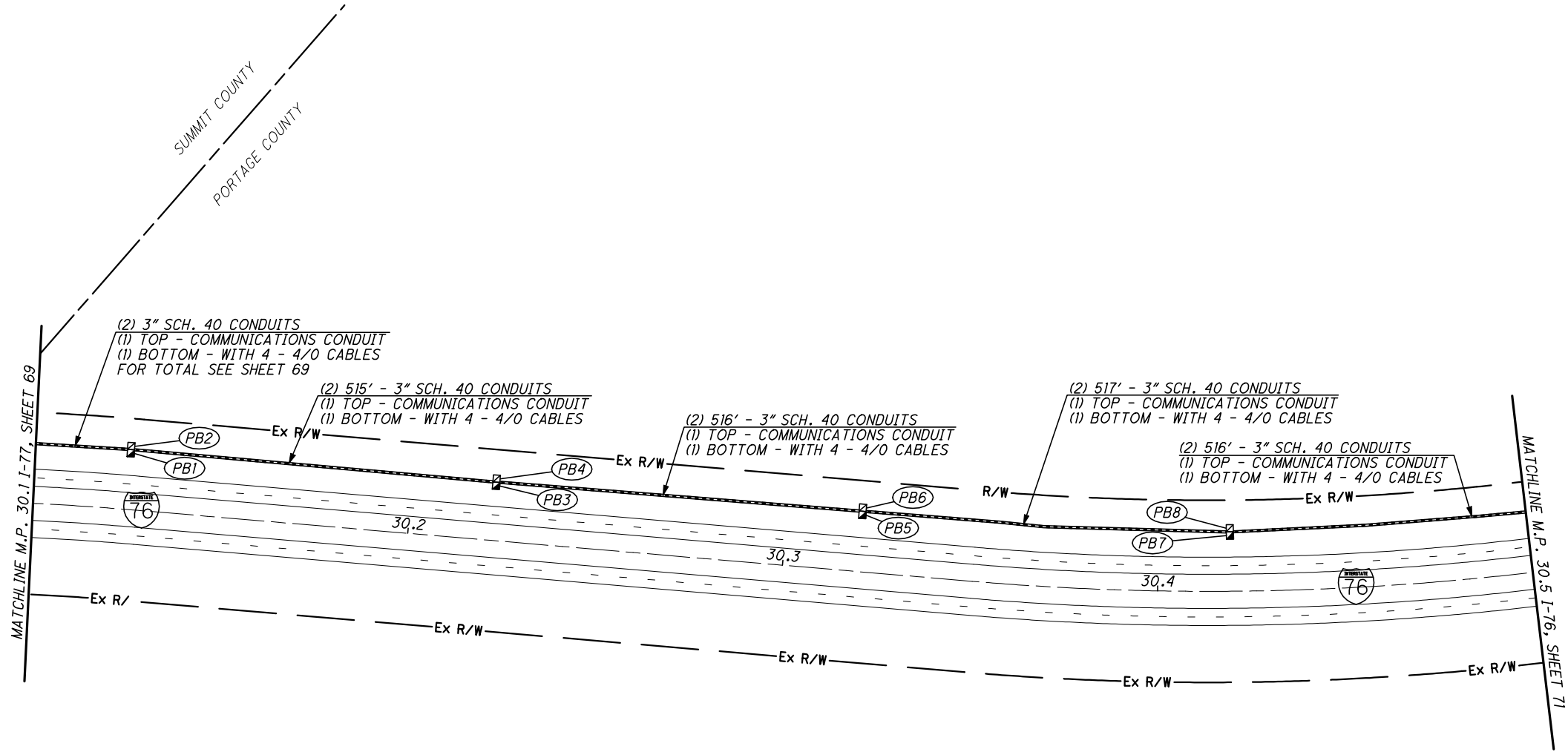
DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 15 FOR TYPICAL POWER SERVICE AS PER PLAN F DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 134 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

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\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP033.dgn 09-JAN-2009 7:55AM jrlove



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.12, 84' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.12, 84' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.22, 84' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.22, 84' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.32, 84' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.32, 84' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.42, 84' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.42, 84' LT.

CALCULATED STS CHECKED JDG

0 50 100 200
HORIZONTAL SCALE IN FEET

I-76 W OF TALLMADGE RD. (MP 30.1 TO MP 30.5)
BRIMFIELD TOWNSHIP, PORTAGE COUNTY

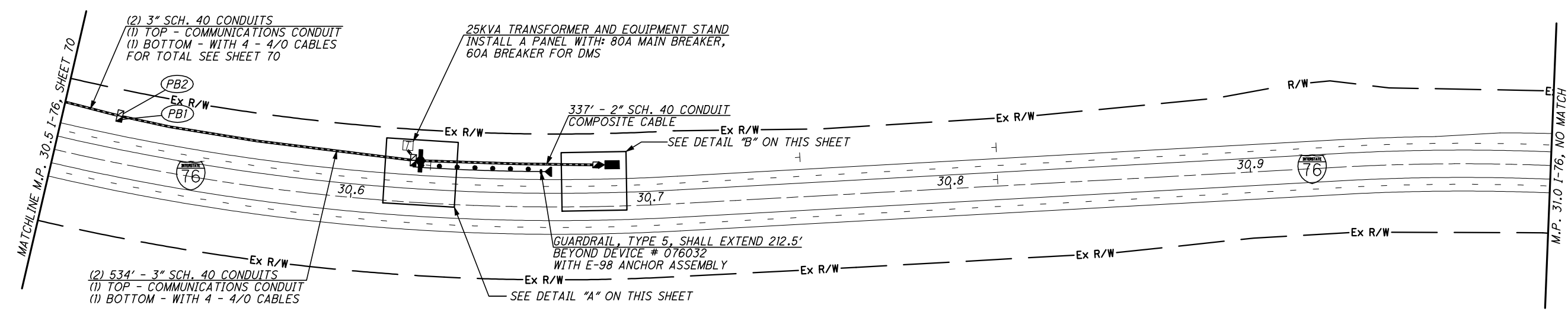
STA-SUM ITS

REFER TO SHEET 11 FOR CONDUIT DETAILS
REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

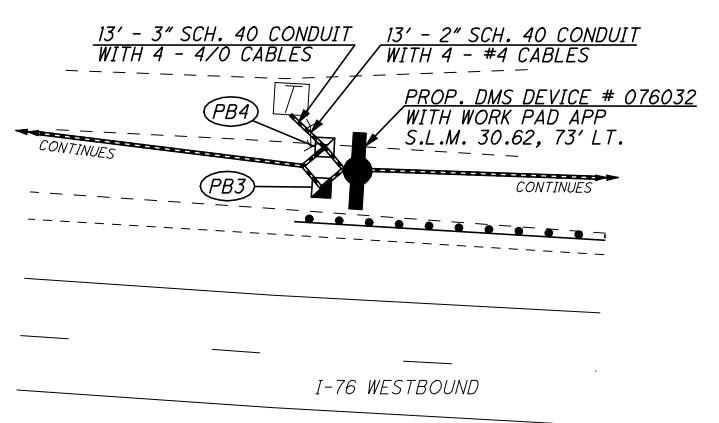
\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP034.dgn 09-JAN-2009 7:55AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.52, 82' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.52, 82' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.62, 74' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.62, 74' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 30.68, 85' LT.

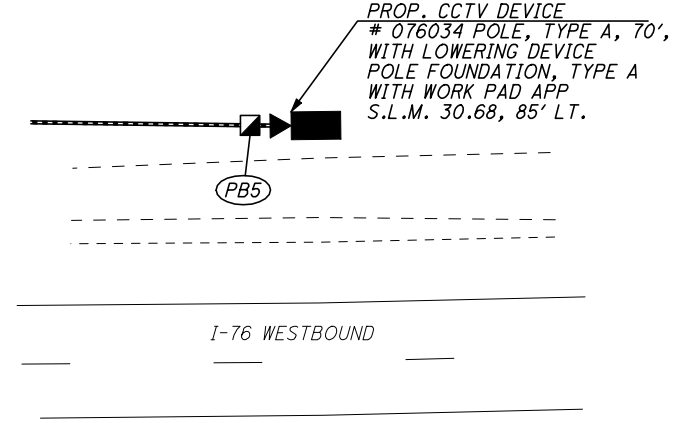
HORIZONTAL SCALE IN FEET



DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION
AND COMMUNICATION POLE DETAILS

REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS

REFER TO SHEET 24 FOR TYPICAL DMS DETAILS

REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION
DESIGNS FOR DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 134 FOR TYPICAL COMMUNICATIONS
PLANS

REFER TO SHEET 151 FOR TYPICAL CCTV-DMS SHARED
EOC COMMUNICATIONS DETAILS

REFER TO SHEET 154 FOR TYPICAL CCTV-DMS W/
COMPOSITE CABLE COMMUNICATIONS DETAILS

DMS 076032
CCTV 076034

I-76 W OF TALLMADGE RD. (MP 30.5 TO MP 31.0)
BRIMFIELD TOWNSHIP, PORTAGE COUNTY

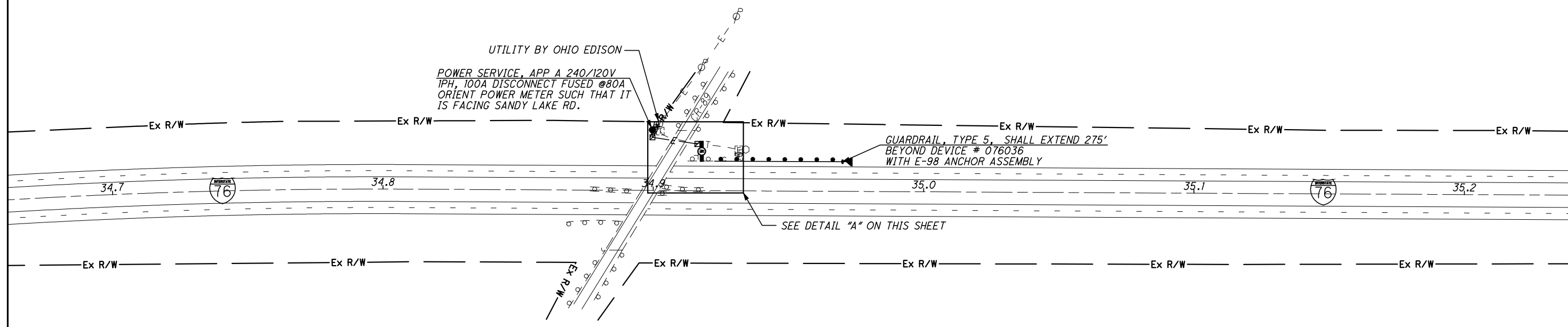
STA-SUM ITS

(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 34.90, 104' LT.

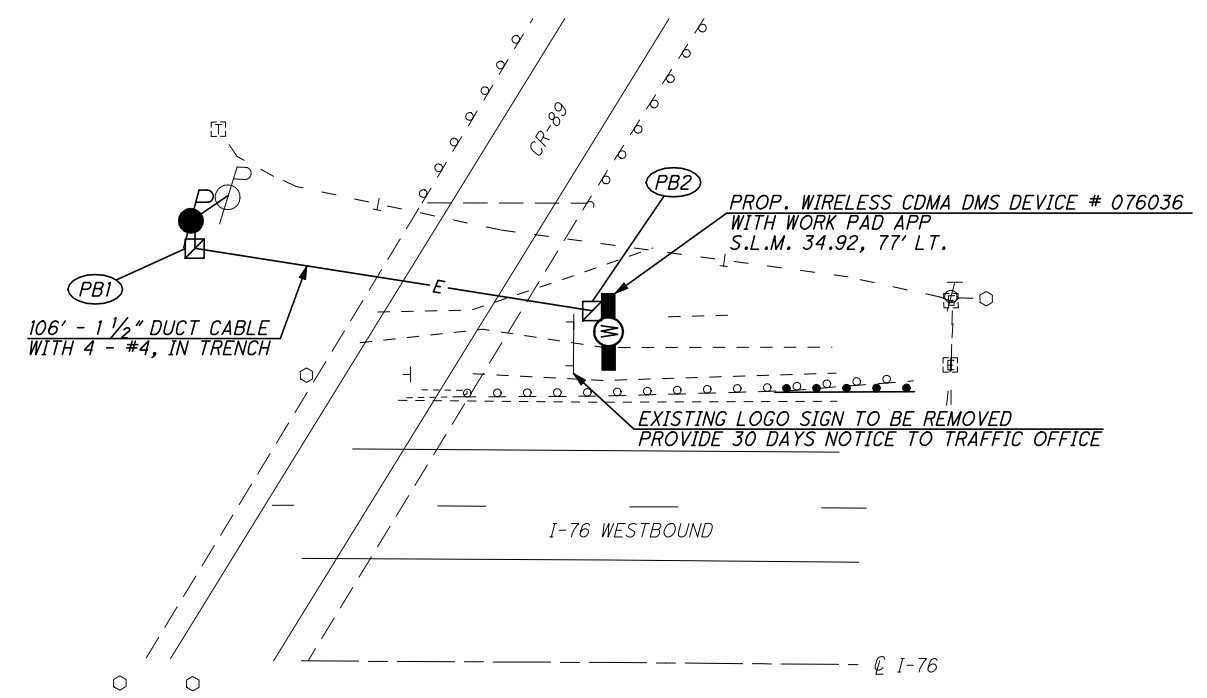
(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 34.92, 77' LT.

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 12A FOR PULL BOX ORIENTATION
AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE
AS PER PLAN A DETAILS

REFER TO SHEET 24 FOR TYPICAL DMS DETAILS

REFER TO DMS PEDESTAL SIGN SUPPORT PIER
FOUNDATION DESIGNS FOR DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 134 FOR TYPICAL COMMUNICATIONS
PLANS

REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS
COMMUNICATIONS DETAILS

I-76 AT CR-89 (MP 34.7 TO MP 35.2)
BRIMFIELD TOWNSHIP, PORTAGE COUNTY

STA-SUM ITS

DMS 076036

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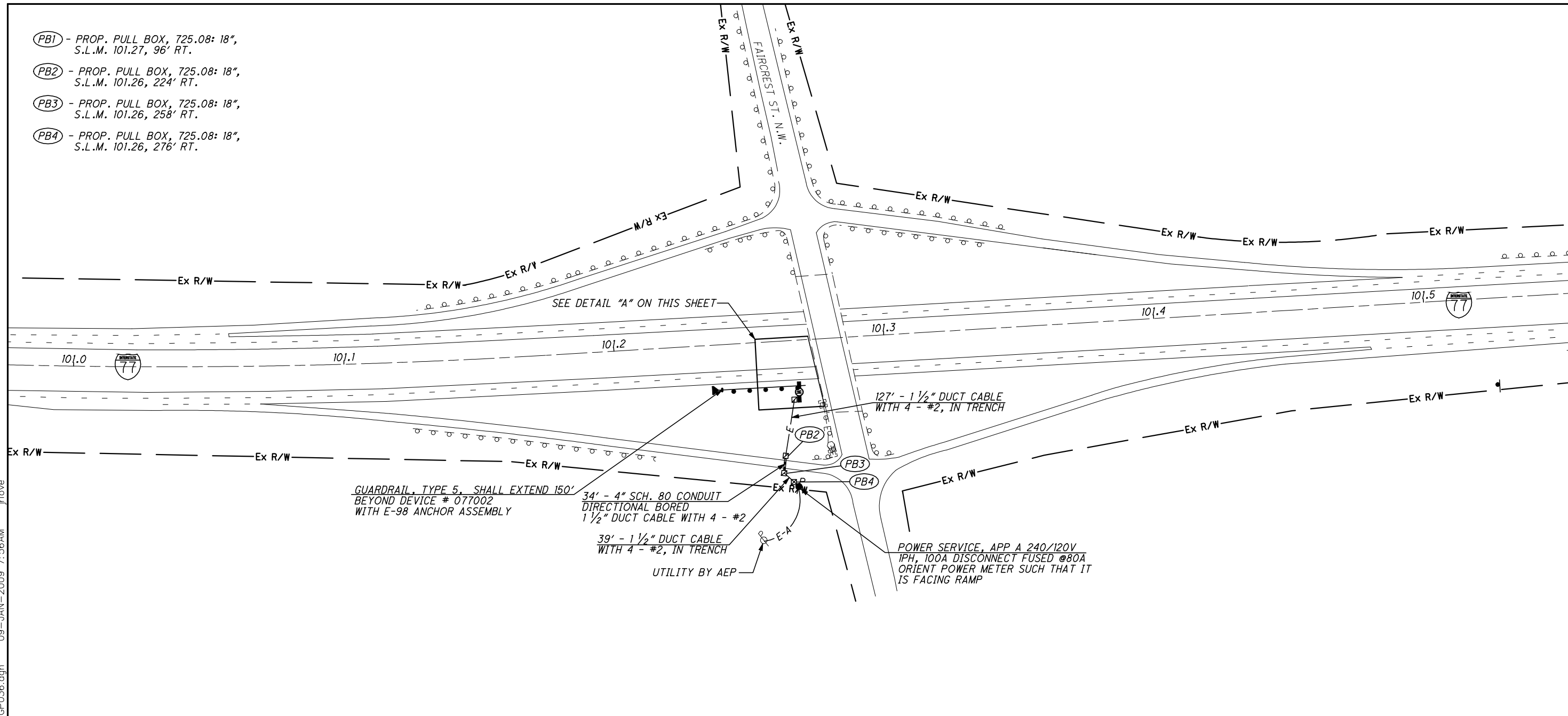


CALCULATED STS CHECKED JDG

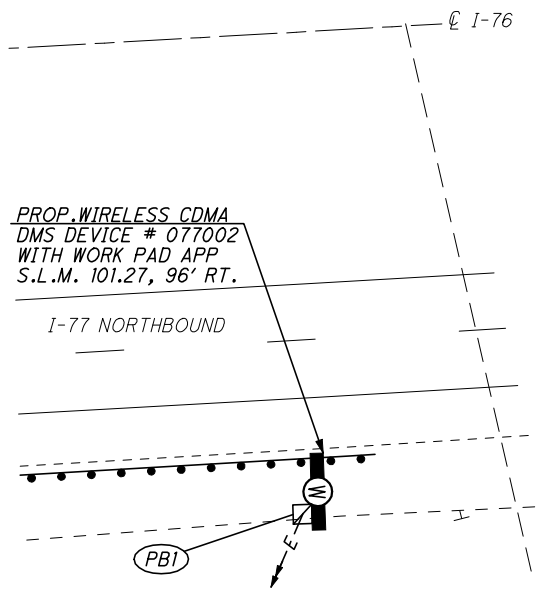
I-77 AT FAIRCREST ST. (MP 101.02 TO MP 101.60)
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 101.27, 96' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 101.26, 224' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 101.26, 258' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 101.26, 276' RT.



DETAIL "A" - NOT TO SCALE

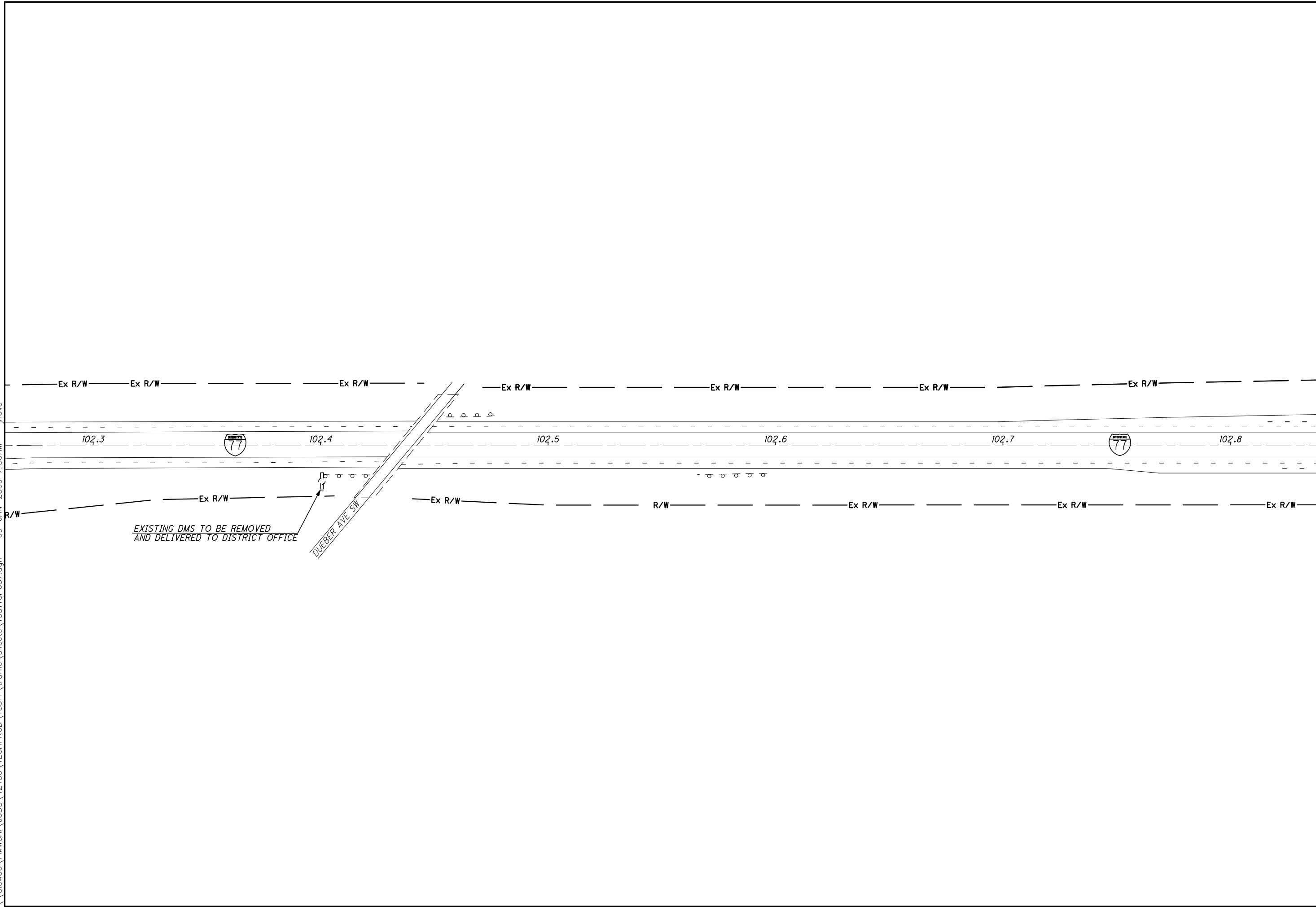


- REFER TO SHEET 12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

DMS 077002

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP036.dgn 09-JAN-2009 7:56AM jrlove

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP037.dgn 09-JAN-2009 7:56AM jrllove

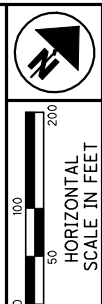


CALCULATED	STS
CHECKED	JDG

I-77 AT DUEBER AVE. (MP 102.26 TO MP 102.84)
CITY OF CANTON, STARK COUNTY

74
154

STA-SUM ITS



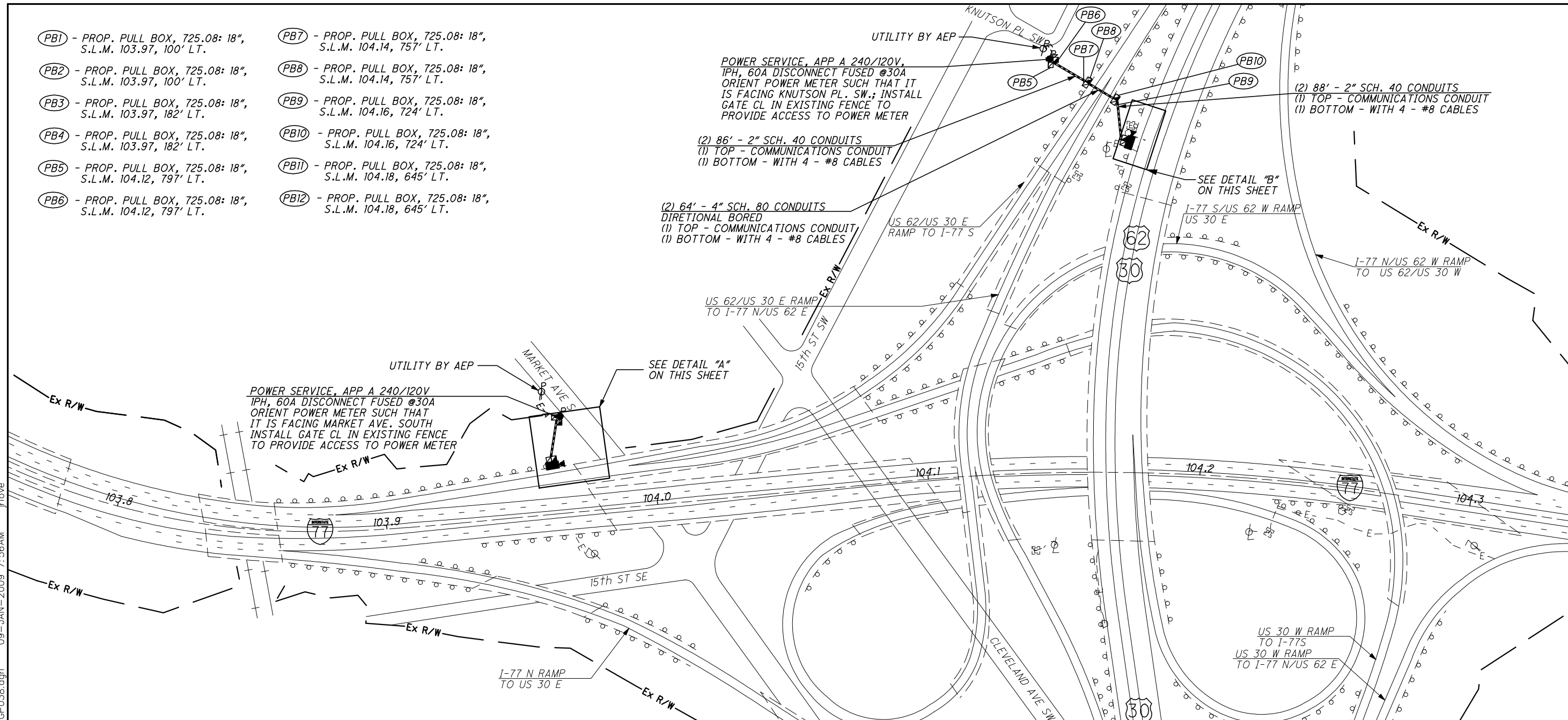
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 103.97, 100' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 103.97, 100' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 103.97, 182' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 103.97, 182' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.12, 797' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.12, 797' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.14, 757' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.14, 757' LT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.16, 724' LT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.16, 724' LT.
- (PB11) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.18, 645' LT.
- (PB12) - PROP. PULL BOX, 725.08: 18", S.L.M. 104.18, 645' LT.

POWER SERVICE, APP A 240/120V, 1PH, 60A DISCONNECT FUSED @30A ORIENT POWER METER SUCH THAT IT IS FACING KNUTSON PL. SW.; INSTALL GATE CL IN EXISTING FENCE TO PROVIDE ACCESS TO POWER METER

(2) 86' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

(2) 64' - 4" SCH. 80 CONDUITS
DIRECTIONAL BORED
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

(2) 88' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES



POWER SERVICE, APP A 240/120V 1PH, 60A DISCONNECT FUSED @30A ORIENT POWER METER SUCH THAT IT IS FACING MARKET AVE. SOUTH INSTALL GATE CL IN EXISTING FENCE TO PROVIDE ACCESS TO POWER METER

SEE DETAIL "A" ON THIS SHEET

SEE DETAIL "B" ON THIS SHEET

DETAIL "A" - NOT TO SCALE

DETAIL "B" - NOT TO SCALE

(2) 97' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

PROP. CCTV DEVICE # 077004
POLE, TYPE A, 70', WITH LOWERING DEVICE
POLE FOUNDATION, TYPE A WITH WORK PAD APP
S.L.M. 103.96, 95' LT.

PROP. CCTV DEVICE # 077006
POLE, TYPE A, 70', WITH LOWERING DEVICE
POLE FOUNDATION, TYPE A WITH WORK PAD APP
S.L.M. 104.19, 639' LT.

- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 077004
CCTV 077006

CALCULATED STS CHECKED JDG

**I-77 AT US-30 (MP 103.76 TO MP 104.34)
CITY OF CANTON, STARK COUNTY**

STA-SUM ITS

75
154

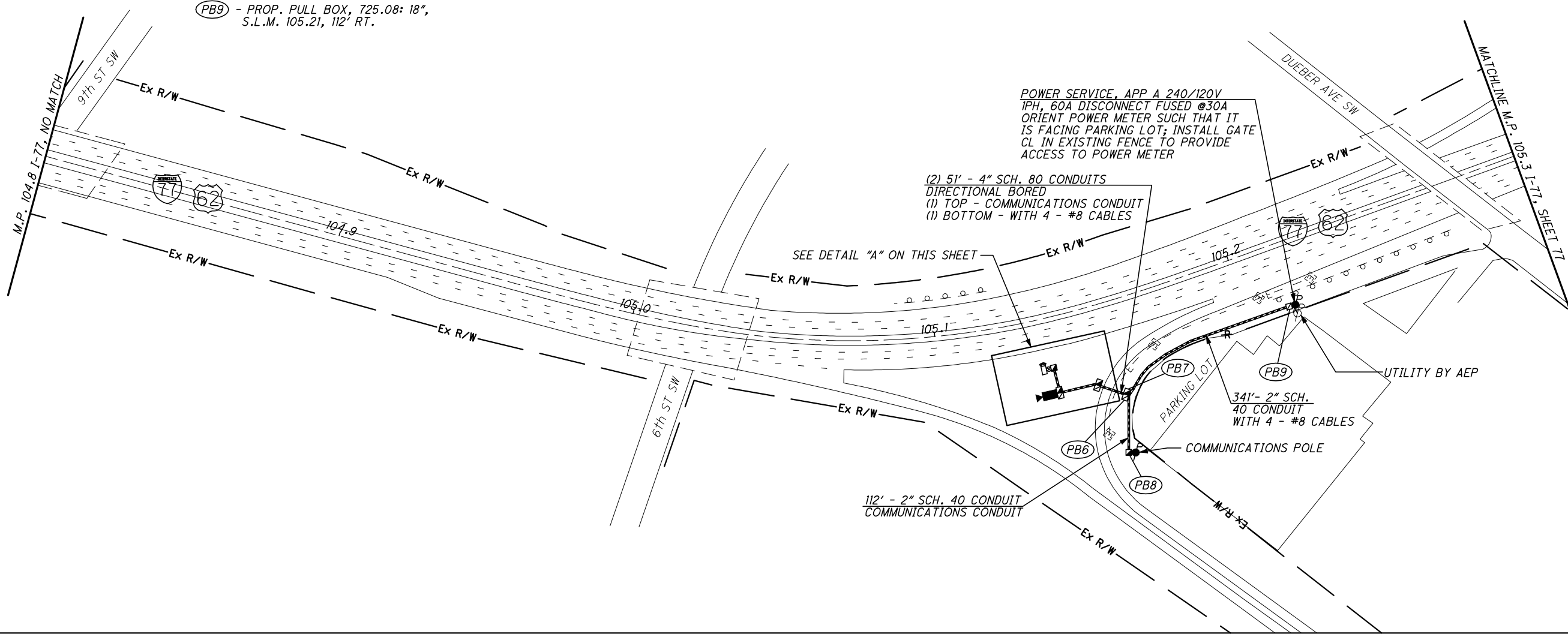
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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.13, 132' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.13, 132' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.13, 87' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.14, 137' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.14, 137' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.15, 165' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.15, 165' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.15, 262' RT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.21, 112' RT.

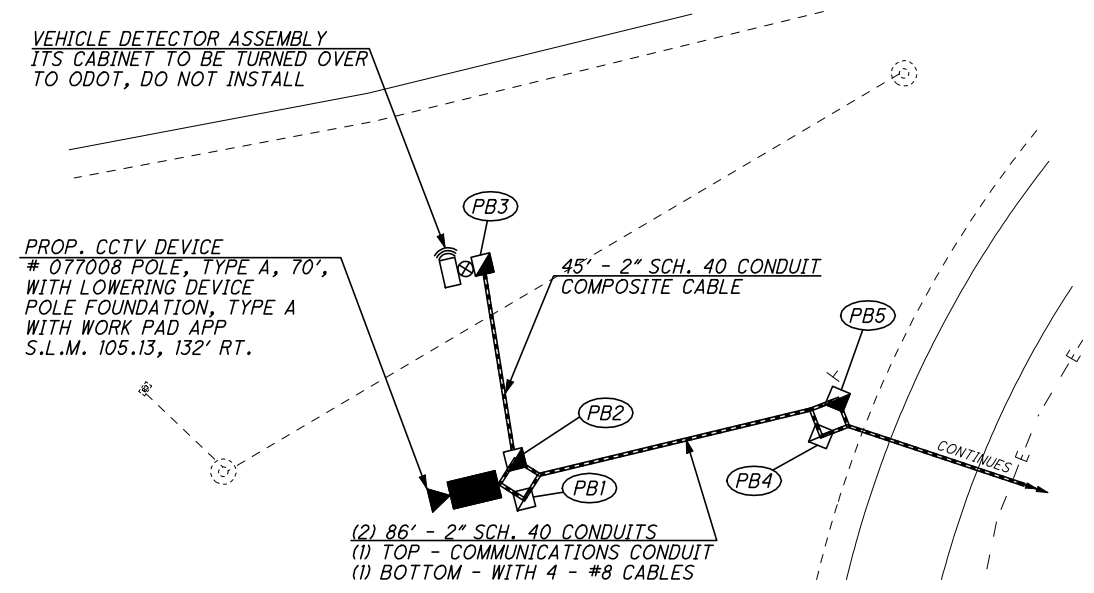
CALCULATED STS CHECKED JDG

I-77 AT 6TH ST. (MP 104.8 TO MP 105.3)
CITY OF CANTON, STARK COUNTY

STA-SUM ITS



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA
- REFER TO SHEET 38A FOR TYPICAL VEHICLE DETECTOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 146 FOR TYPICAL CCTV W/V D EOC COMMUNICATIONS DETAILS

CCTV 077008

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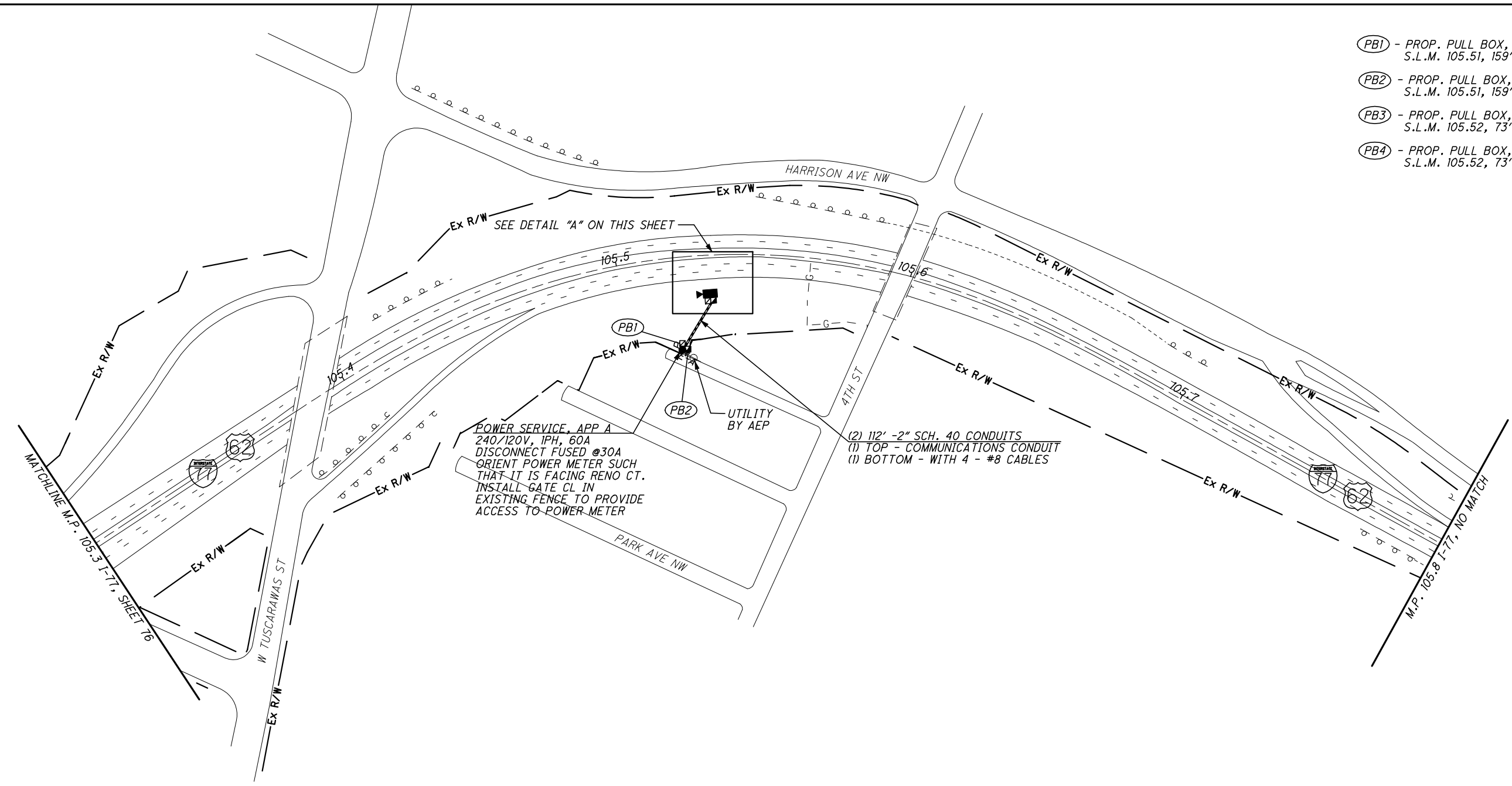
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.51, 159' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.51, 159' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.52, 73' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 105.52, 73' RT.

CALCULATED STS
CHECKED JDG

I-77 AT 4TH ST. (MP 105.3 TO MP 105.8)
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

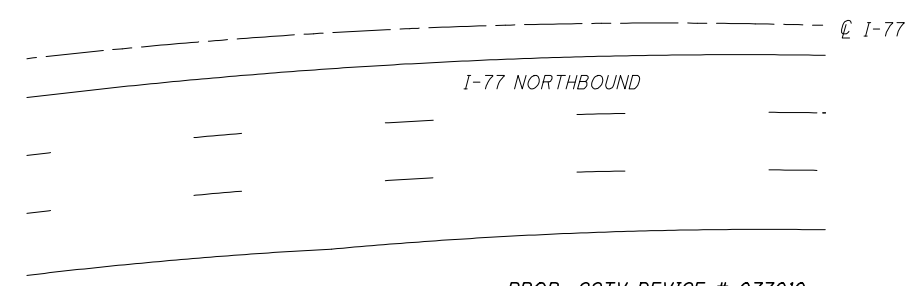
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POWER SERVICE, APP A
240/120V, 1PH, 60A
DISCONNECT FUSED @30A
ORIENT POWER METER SUCH
THAT IT IS FACING RENO CT.
INSTALL GATE CL IN
EXISTING FENCE TO PROVIDE
ACCESS TO POWER METER

(2) 112' -2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

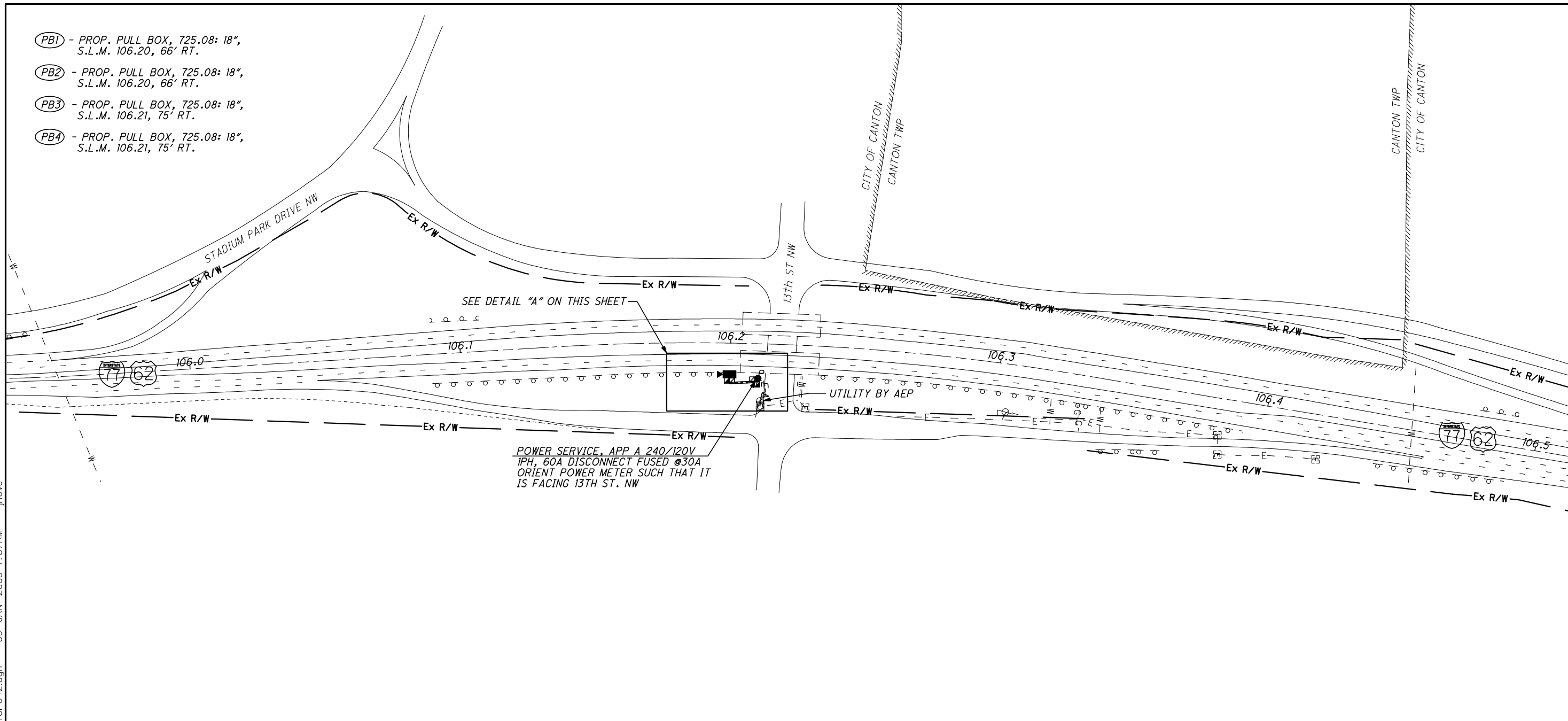
DETAIL "A" - NOT TO SCALE



PROP. CCTV DEVICE # 077010
POLE, TYPE A, 70', WITH LOWERING DEVICE
POLE FOUNDATION, TYPE A WITH WORK PAD APP
S.L.M. 105.53, 68' RT.

- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 106.20, 66' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 106.20, 66' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 106.21, 75' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 106.21, 75' RT.



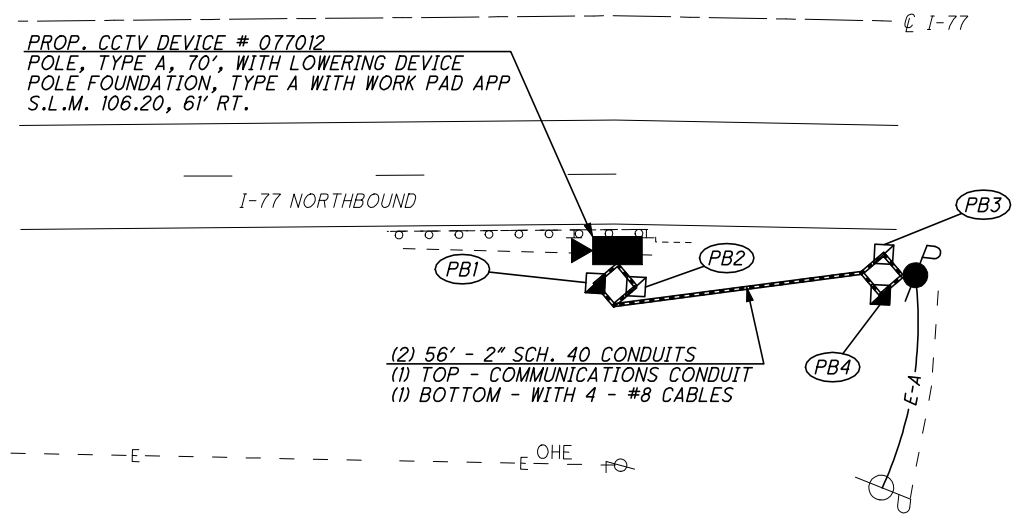
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0 50 100 200
HORIZONTAL SCALE IN FEET

CALCULATED	STS	JDC

I-77 AT 13TH ST. (MP 105.93 TO MP 106.51)
CITY OF CANTON, STARK COUNTY

DETAIL "A" - NOT TO SCALE



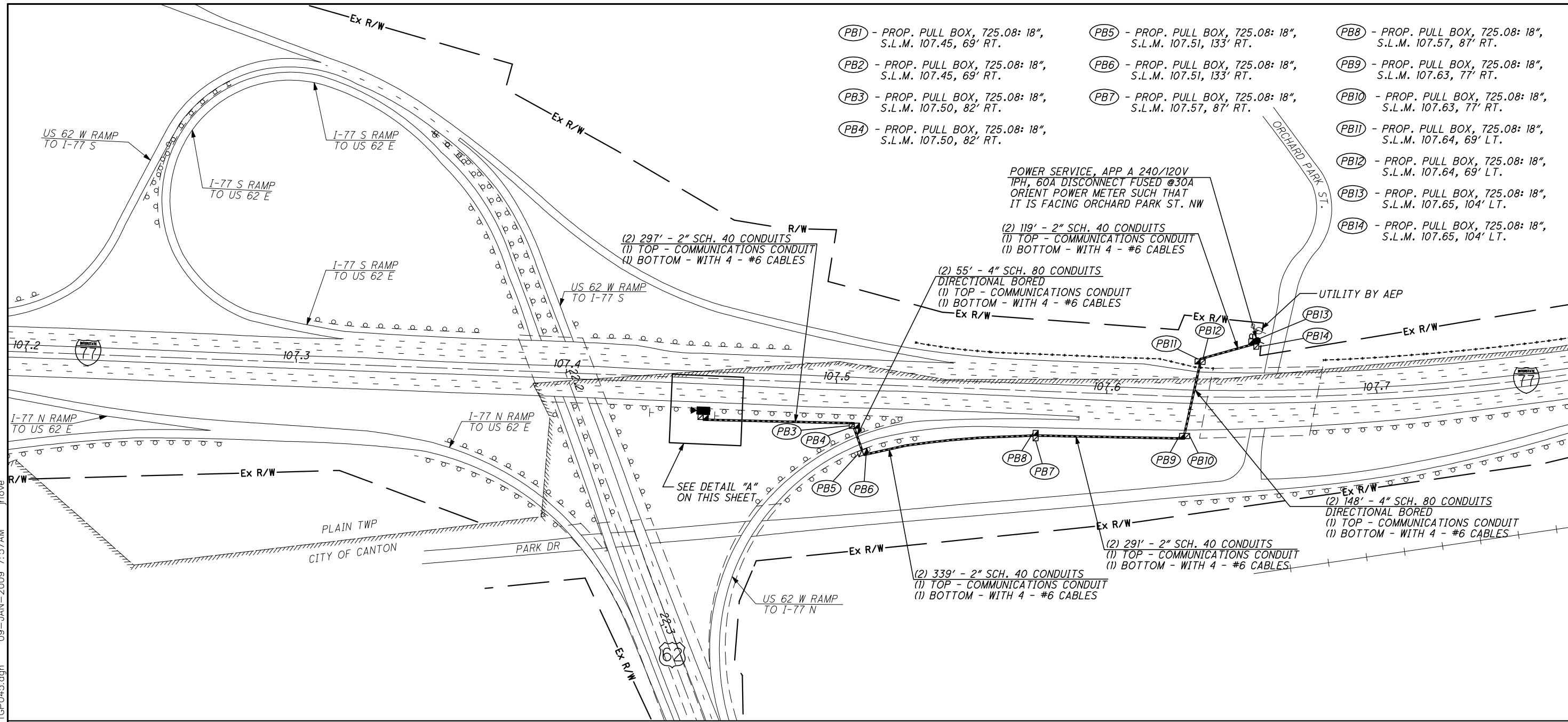
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS PLANS

STA-SUM ITS

CCTV 077012

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\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP045.dgn 09-JAN-2009 7:57AM jrlove



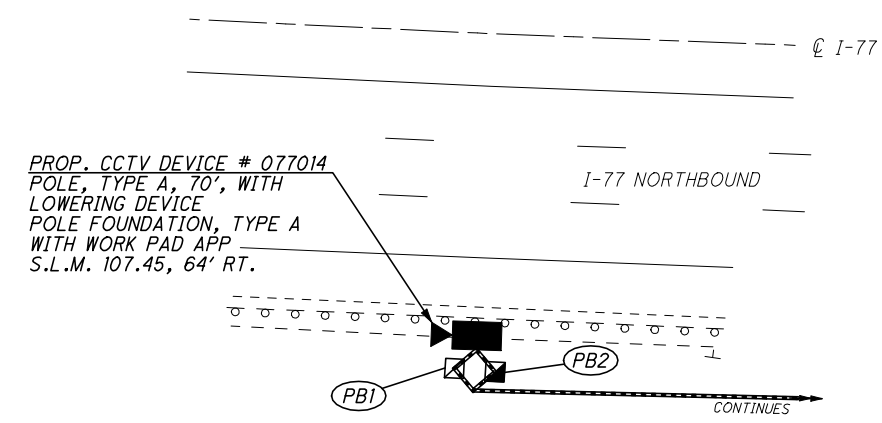
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.45, 69' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.45, 69' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.50, 82' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.50, 82' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.51, 133' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.51, 133' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.57, 87' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.57, 87' RT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.63, 77' RT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.63, 77' RT.
- (PB11) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.64, 69' LT.
- (PB12) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.64, 69' LT.
- (PB13) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.65, 104' LT.
- (PB14) - PROP. PULL BOX, 725.08: 18", S.L.M. 107.65, 104' LT.

CALCULATED STS CHECKED JDC

HORIZONTAL SCALE IN FEET

I-77 AT US-62 (MP 107.19 TO MP 107.77)
PLAIN TWP, STARK COUNTY

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
 REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

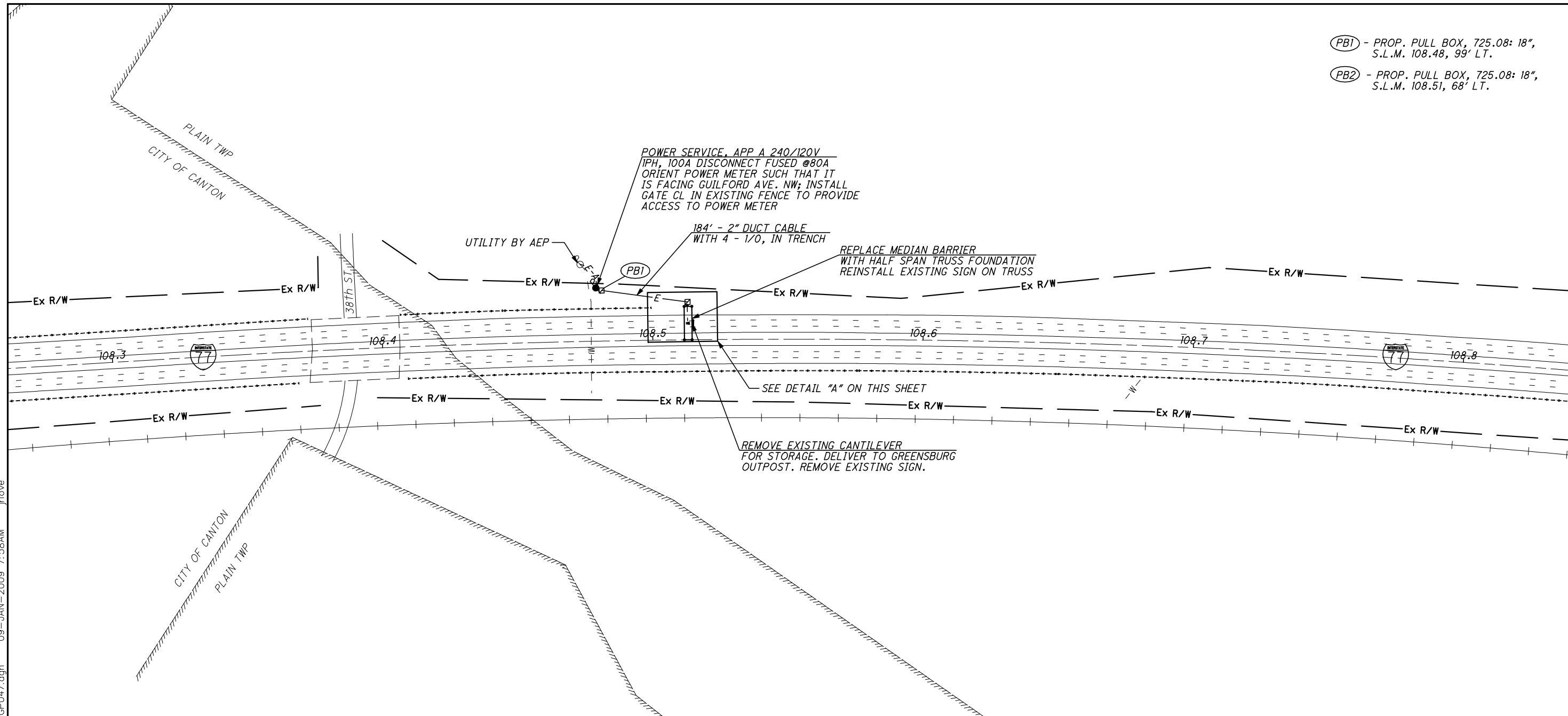
CCTV 077014

STA-SUM ITS

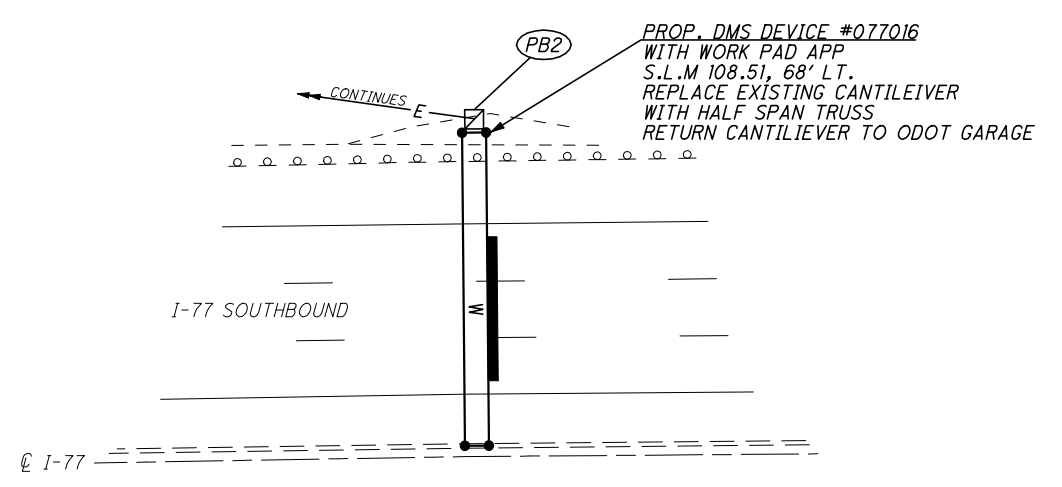


CALCULATED STS CHECKED JDG

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 108.48, 99' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 108.51, 68' LT.



DETAIL "A" - NOT TO SCALE



- REFER TO STANDARD CONSTRUCTION DRAWING RM-4.4 FOR BARRIER TRANSITION DETAILS
- REFER TO SHEET 9 FOR CONCRETE BARRIER REPLACEMENT DETAILS
- REFER TO SHEET 12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO TRUSS ROW SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO CONCRETE BARRIER MEDIAN TRUSS AND PEDESTAL SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 126 FOR DMS PROFILE
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

DMS 077016

I-77 AT 38TH ST. (MP 108.26 TO MP 108.84)
PLAIN TOWNSHIP, STARK COUNTY

STA-SUM ITS

80
154

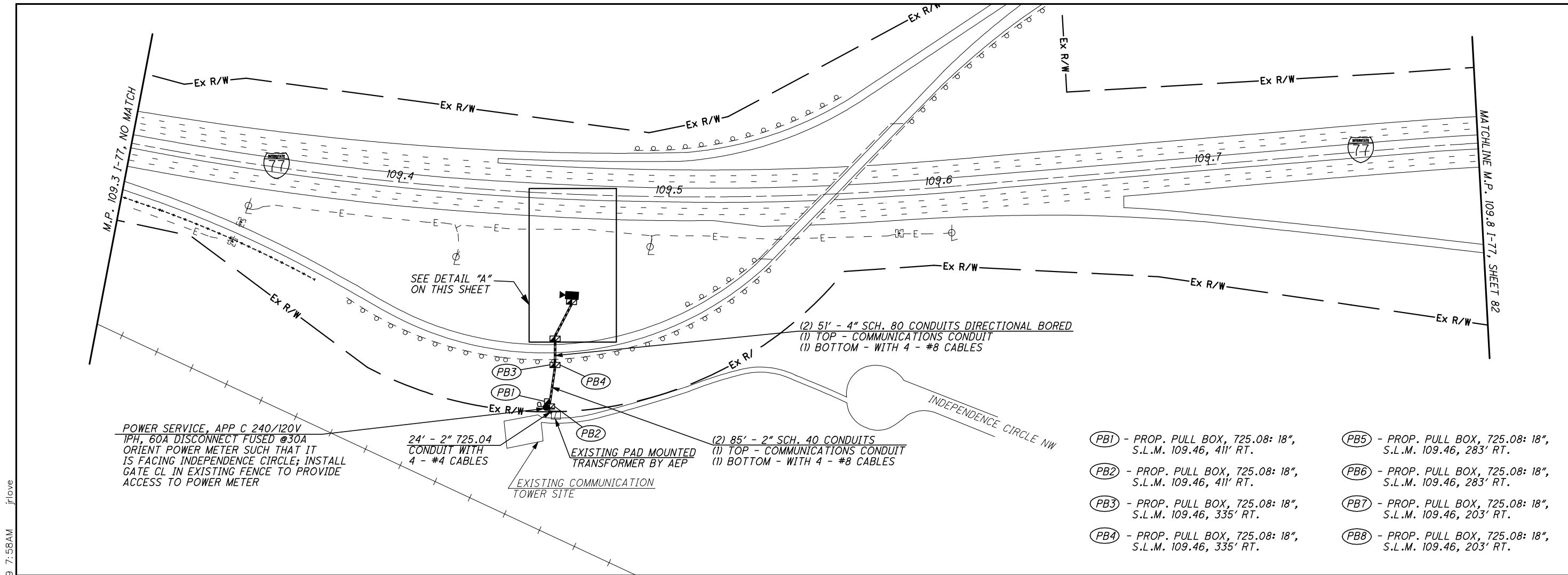
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CALCULATED STS CHECKED JDG

I-77 AT BELDEN VILLAGE (MP 109.20 TO 109.78)
PLAIN TOWNSHIP, STARK COUNTY

STA-SUM ITS



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 411' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 411' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 335' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 335' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 283' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 283' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 203' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.46, 203' RT.

REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

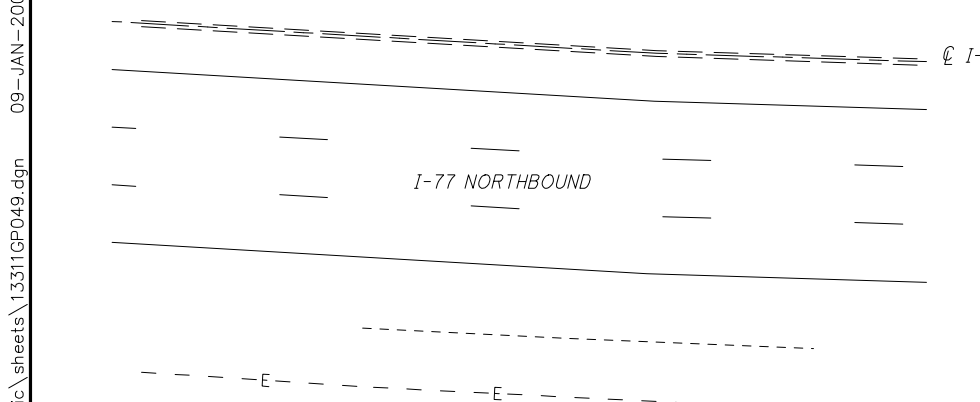
REFER TO SHEET 13 FOR POWER SERVICE AS PER PLAN C DETAILS

REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS

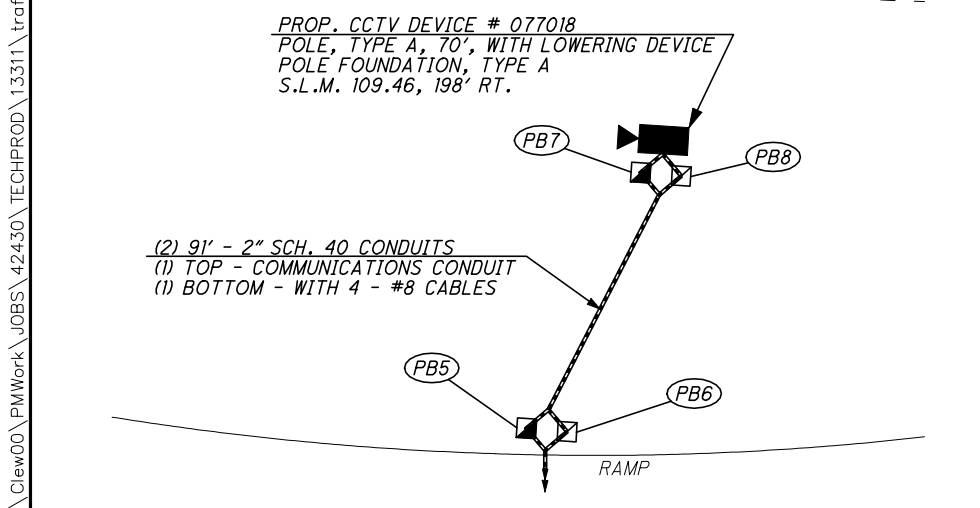
REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS



DETAIL "A" - NOT TO SCALE



CCTV 077018

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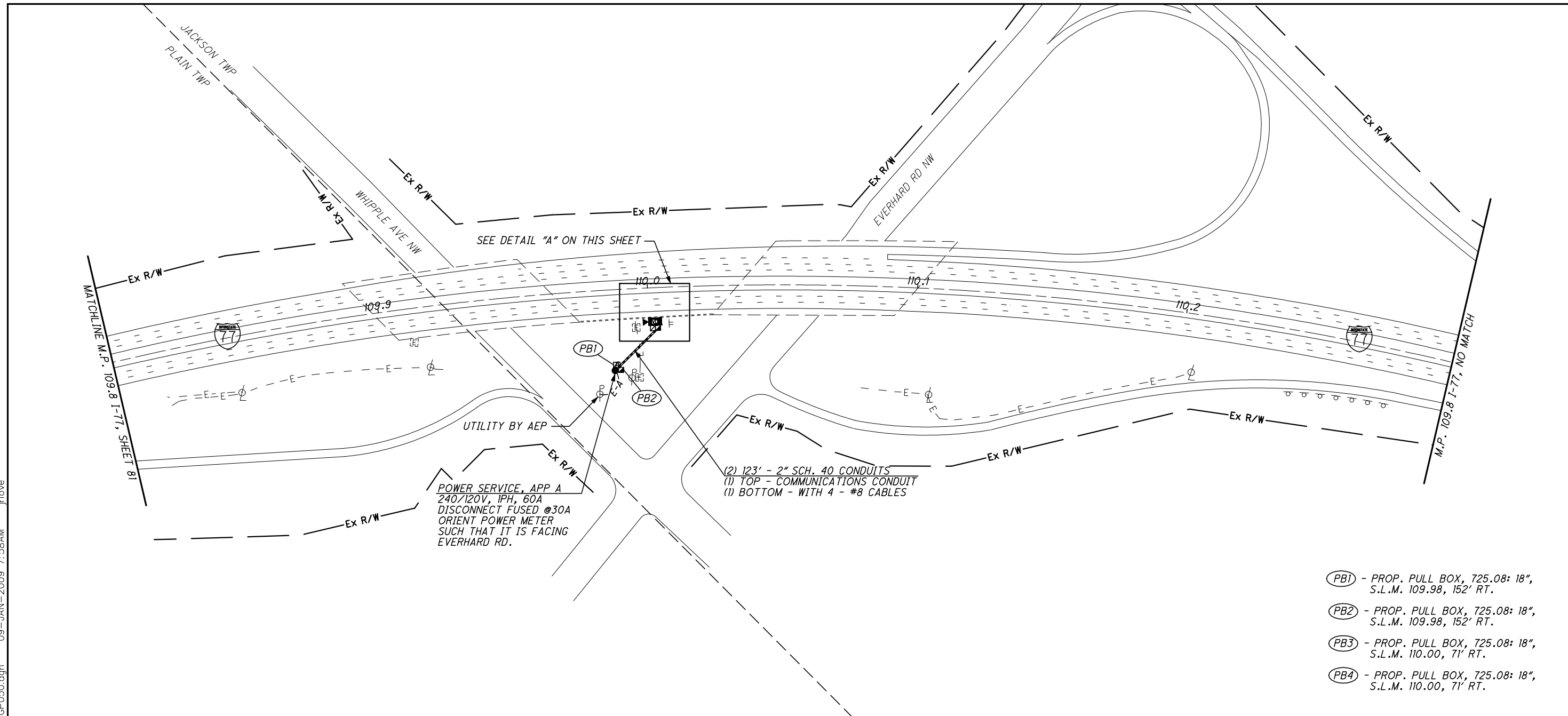
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CALCULATED STS CHECKED JDG

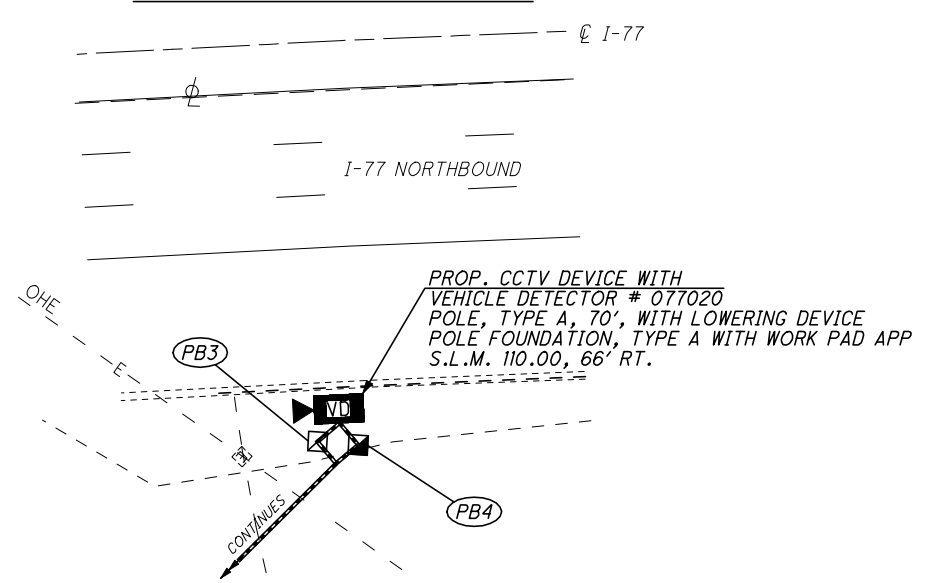
I-77 AT WHIPPLE AVE. (MP 109.76 TO MP 110.34)
JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.98, 152' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 109.98, 152' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.00, 71' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.00, 71' RT.

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS

REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS

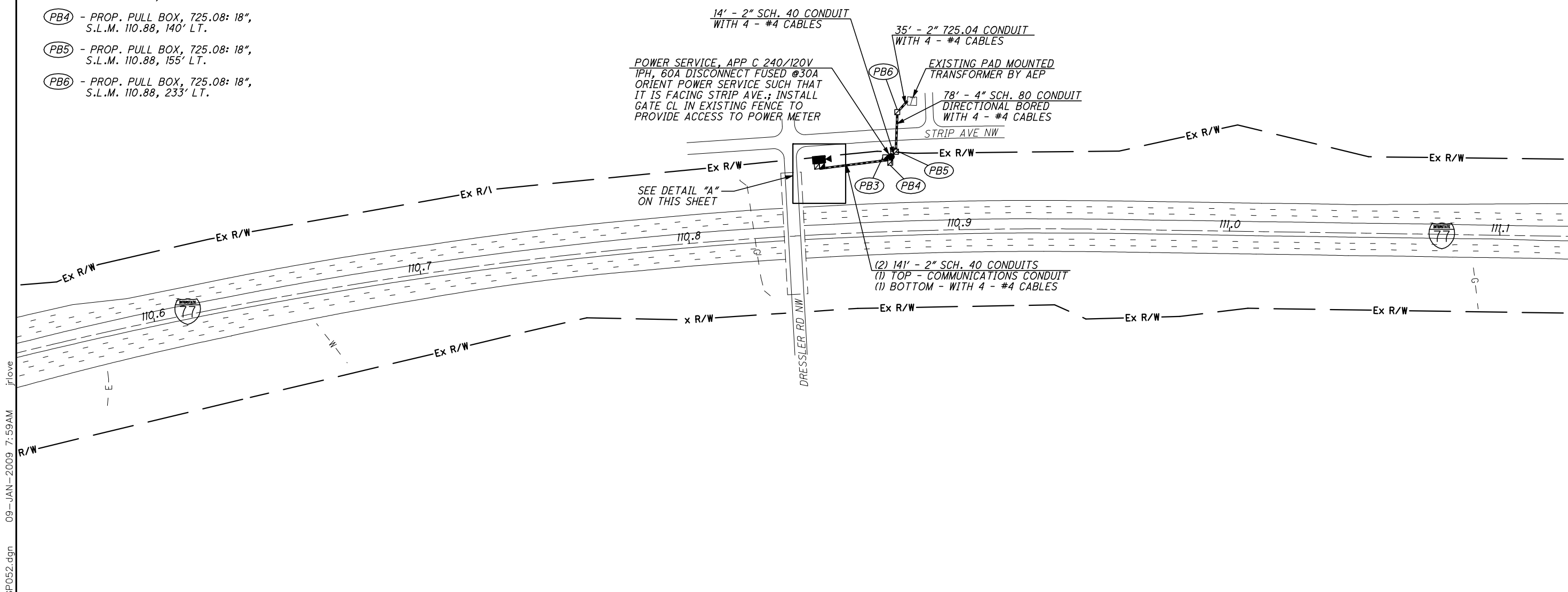
REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 144 FOR TYPICAL CCTV W/V D T-1 COMMUNICATIONS DETAILS

CCTV 077020

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.86, 141' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.88, 141' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.88, 140' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.88, 140' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.88, 155' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 110.88, 233' LT.



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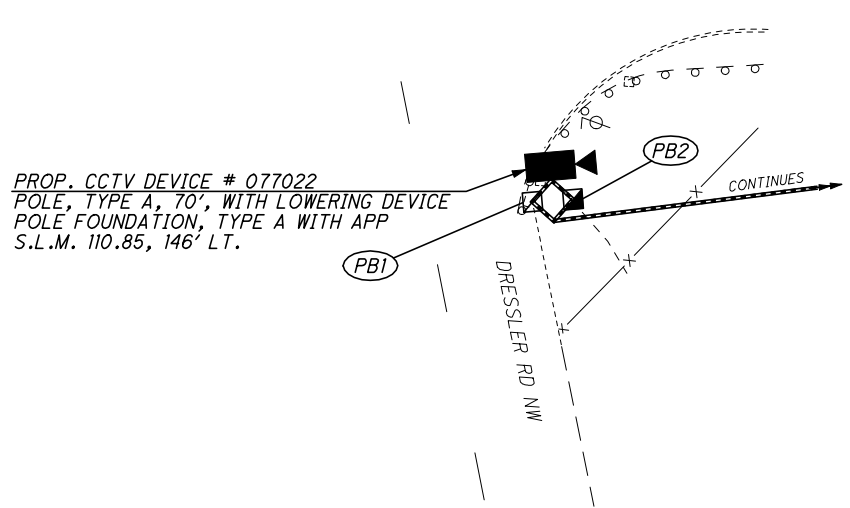
0 50 100 200
HORIZONTAL SCALE IN FEET

CALCULATED STS
CHECKED JDC

I-77 AT DRESSLER RD. (MP 110.55 TO MP 111.13)
JACKSON TOWNSHIP, STARK COUNTY

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DETAIL "A" - NOT TO SCALE



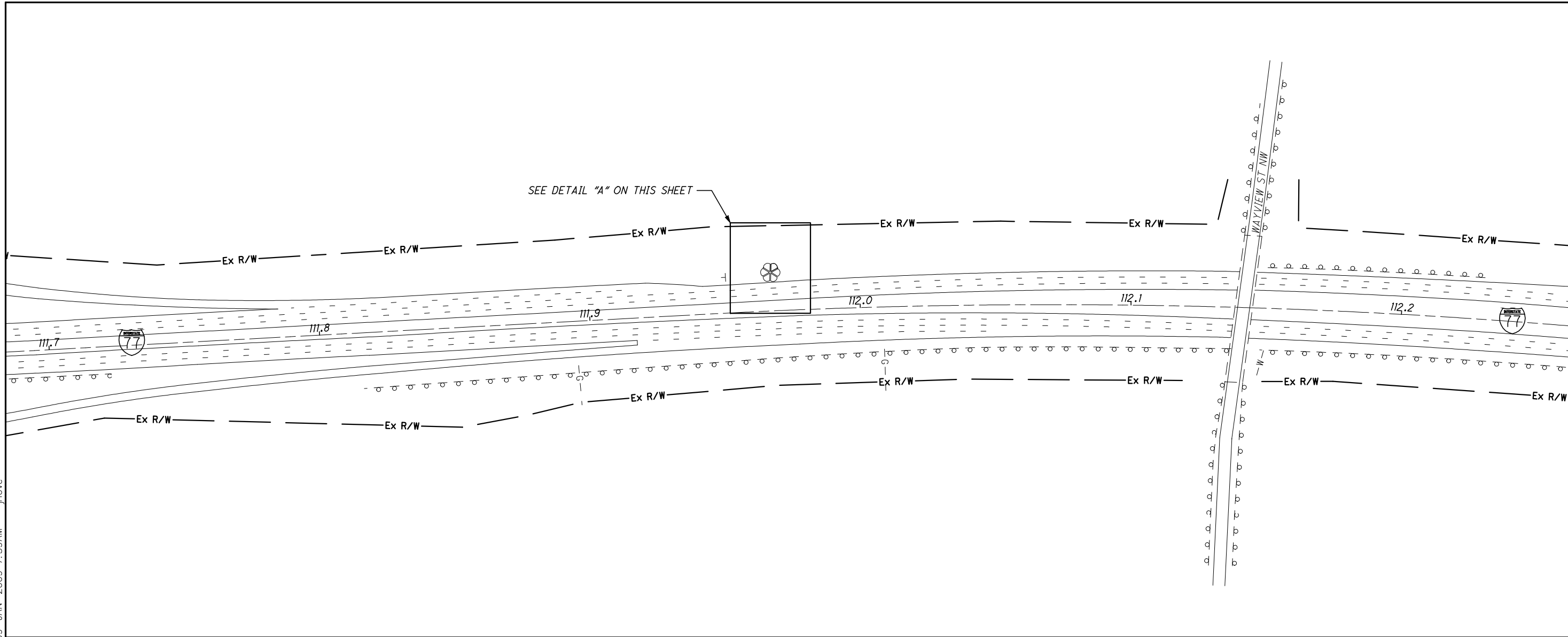
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN C DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS PLANS

CCTV 077022

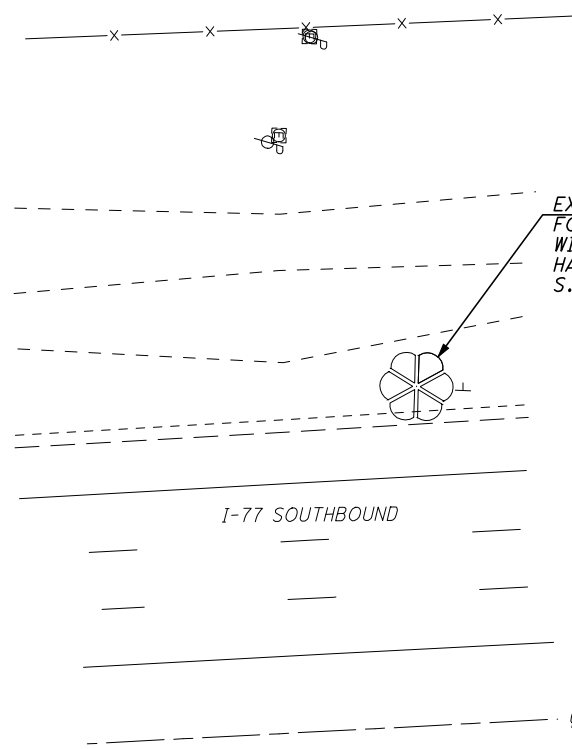
STA-SUM ITS

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154

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DETAIL "A" - NOT TO SCALE



REFER TO SHEET 18 FOR TYPICAL HAR DETAILS

REFER TO SHEET 135 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 148 FOR TYPICAL HAR WIRELESS COMMUNICATIONS PLANS

STARK HAR

CALCULATED STS CHECKED JDG

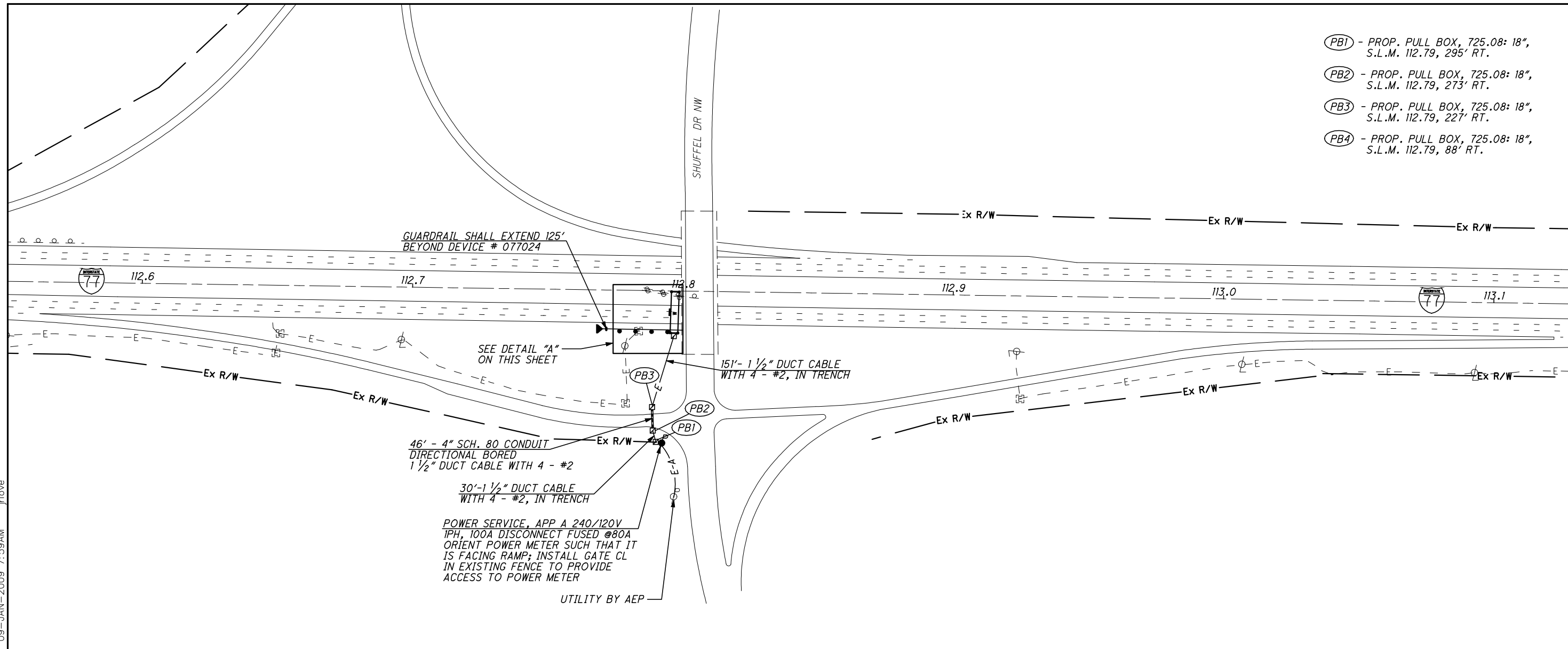
0 100 200
HORIZONTAL SCALE IN FEET

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I-77 AT WAYVIEW ST. (MP 111.68 TO MP 112.26)
JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS

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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 112.79, 295' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 112.79, 273' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 112.79, 227' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 112.79, 88' RT.

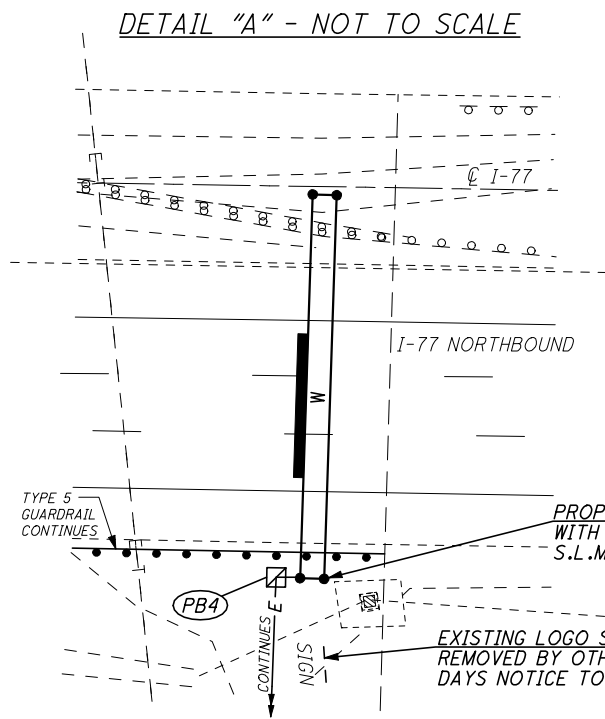
CALCULATED STS CHECKED JDG

0 50 100 200 HORIZONTAL SCALE IN FEET

I-77 AT SHUFFLE DR. (MP 112.59 TO MP 113.39)
JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS

85
154



- REFER TO SHEET 12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO TRUSS ROW SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO SHEET 126 FOR DMS PROFILE
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

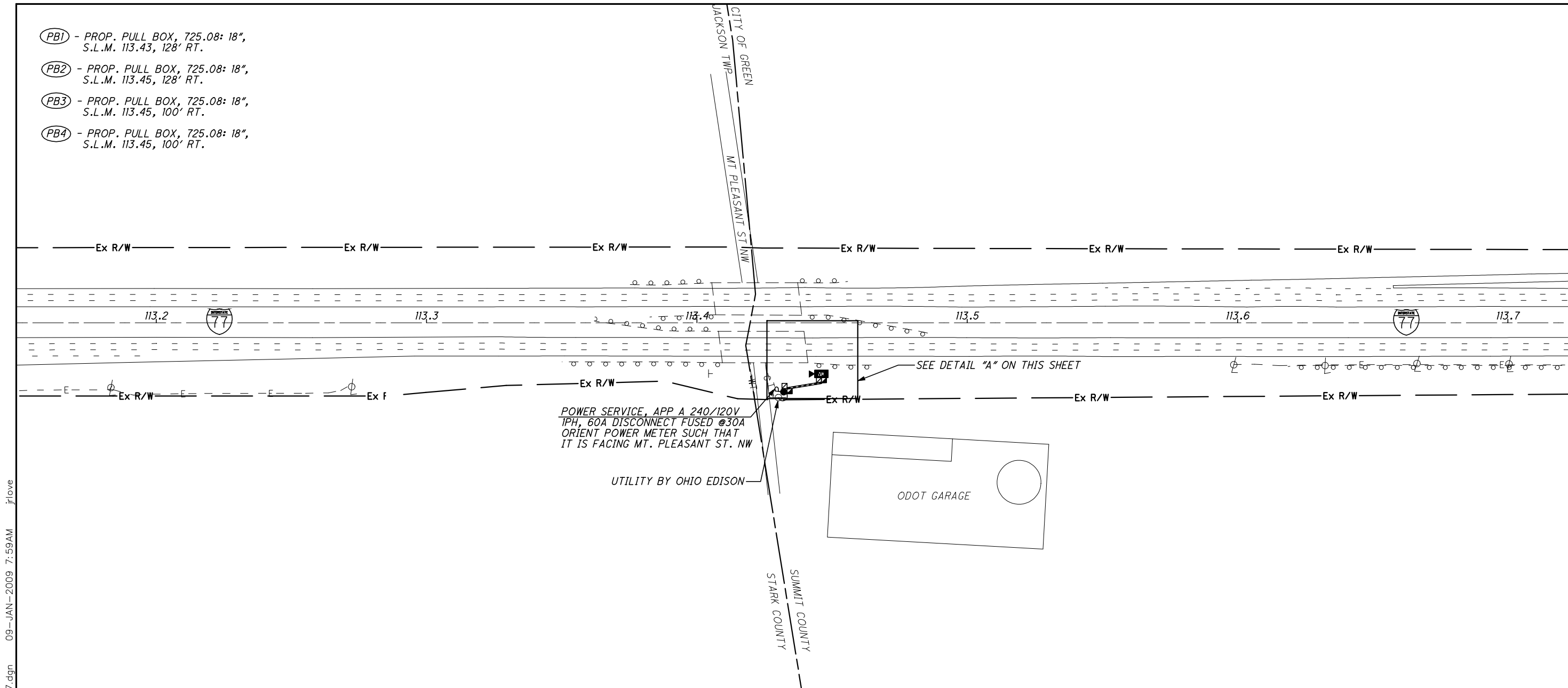
DMS 077024

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 113.43, 128' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 113.45, 128' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 113.45, 100' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 113.45, 100' RT.

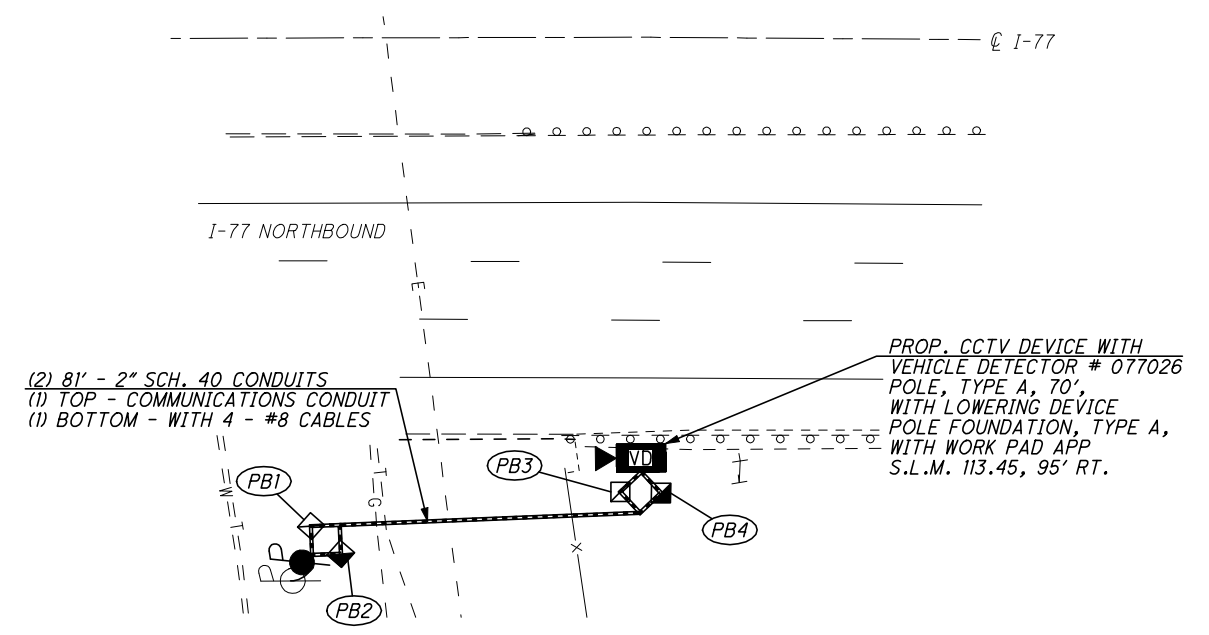
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HORIZONTAL SCALE IN FEET

CALCULATED	STS	CHECKED	JDG
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DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 136 FOR COMMUNICATIONS PLANS
- REFER TO SHEET 146 FOR CCTV W/VD EOC COMMUNICATIONS DETAILS

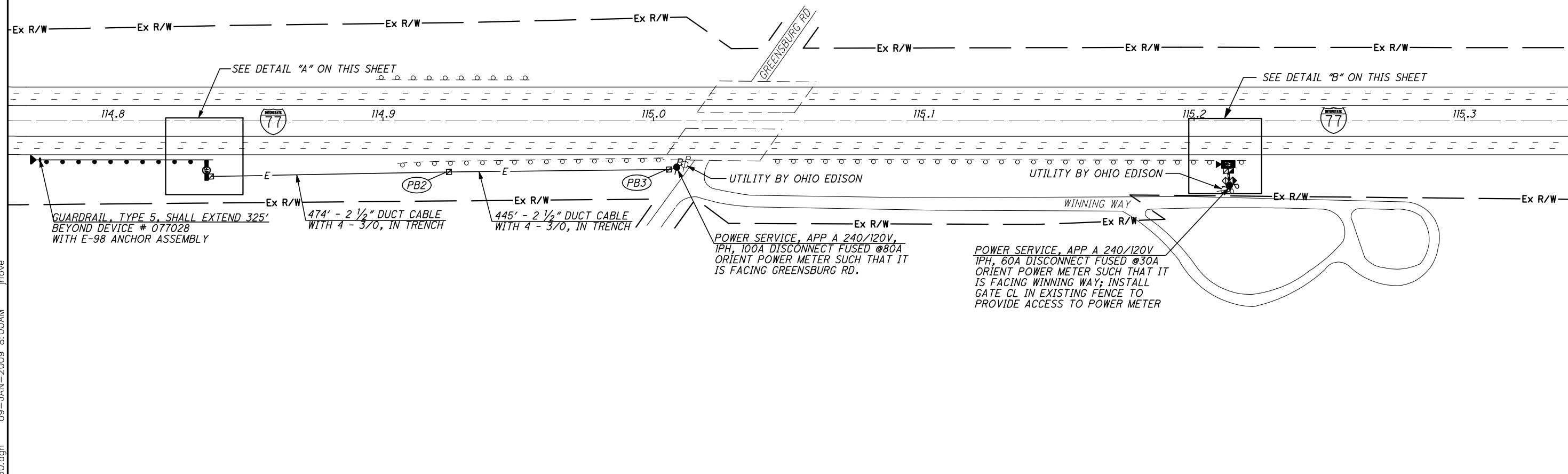
CCTV 077026

I-77 AT MT PLEASANT ST. (MP 113.15 TO MP 113.73)
CITY OF GREEN, SUMMIT COUNTY

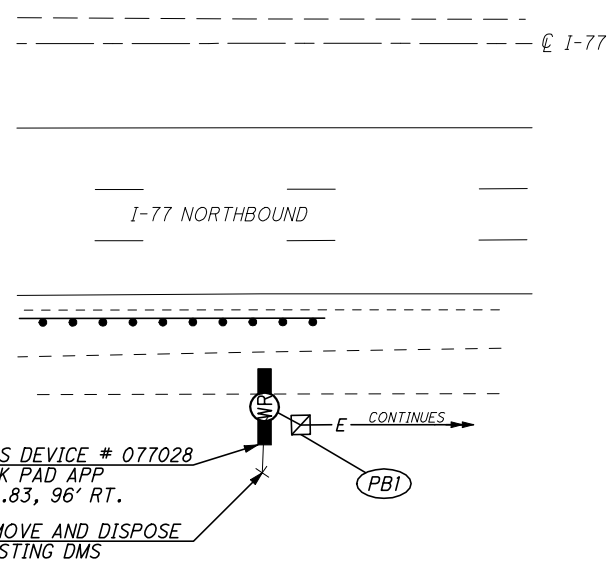
STA-SUM ITS

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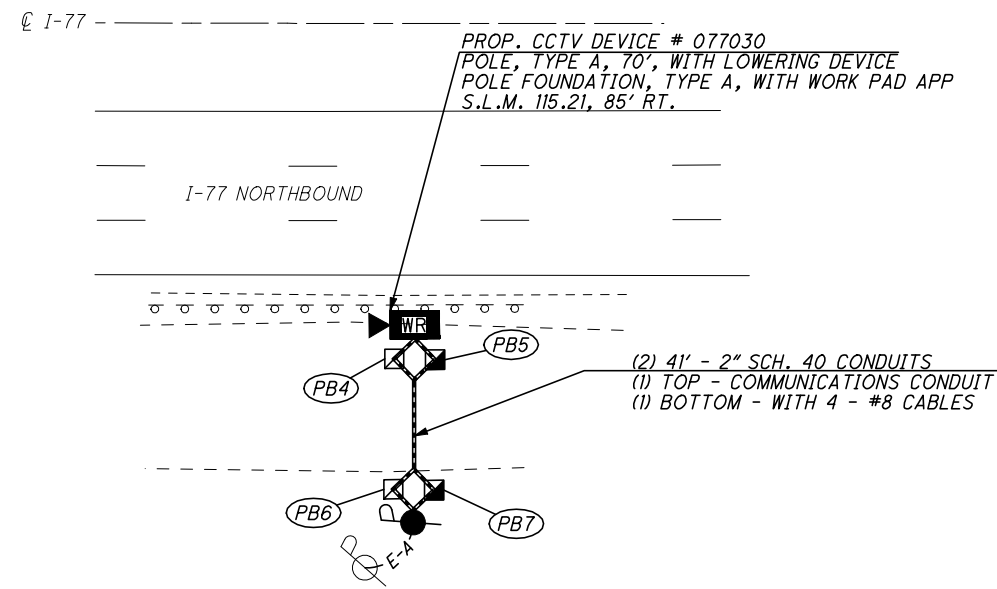
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 114.83, 96' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 114.92, 100' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 115.01, 95' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 115.21, 90' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 115.21, 90' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 115.21, 117' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 115.21, 117' RT.



DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA WITH WIRELESS RADIO DETAILS
- REFER TO SHEET 23 FOR TYPICAL DMS WITH WIRELESS RADIO ASSEMBLY DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 149 FOR TYPICAL CCTV W/B RADIO EOC COMMUNICATIONS DETAILS
- REFER TO SHEET 150 FOR TYPICAL DMS W/B RADIO COMMUNICATIONS DETAILS

DMS 077028
CCTV 077030

CALCULATED STS CHECKED JDC

0 50 100 200
HORIZONTAL SCALE IN FEET

I-77 AT GREENSBURG RD. (MP 114.76 TO MP 115.34)
CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS

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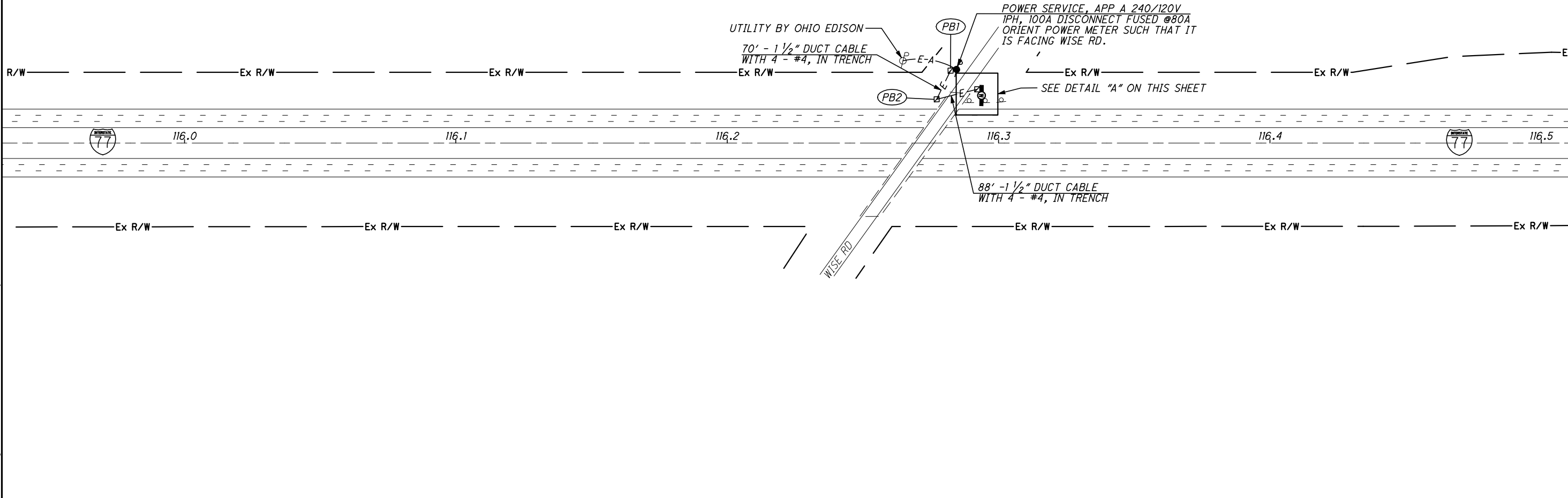
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 116.28, 140' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 116.28, 85' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 116.29, 92' LT.





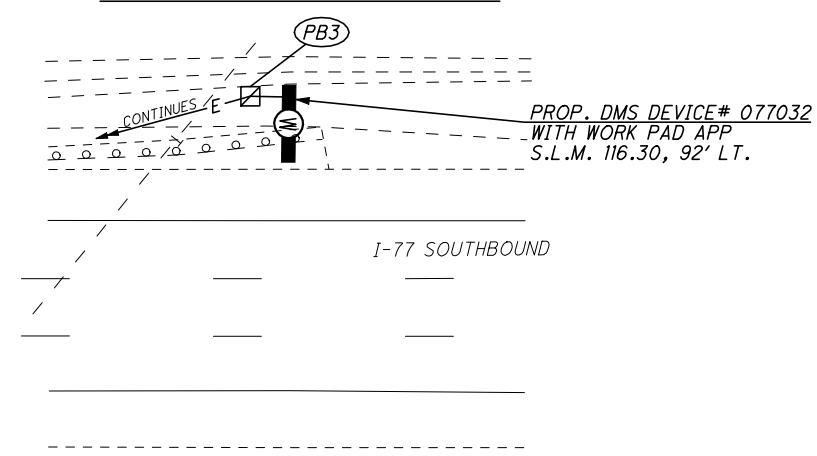
 HORIZONTAL SCALE IN FEET

CALCULATED STS
 CHECKED JDG



I-77 AT WISE RD. (MP 115.93 TO MP 116.51)
CITY OF GREEN, SUMMIT COUNTY

DETAIL "A" - NOT TO SCALE




- REFER TO SHEET 12A FOR PULL BOX ORIENTATION FOR DMS LOCATION DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

STA-SUM ITS

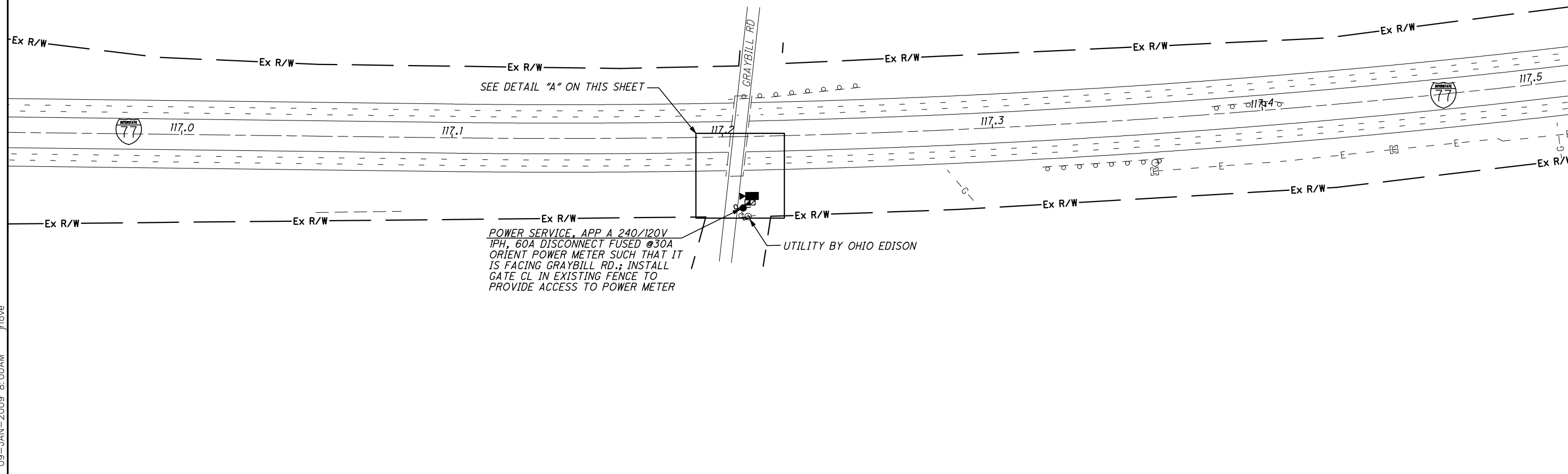
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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 117.21, 124' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 117.21, 124' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 117.21, 140' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 117.21, 140' RT.

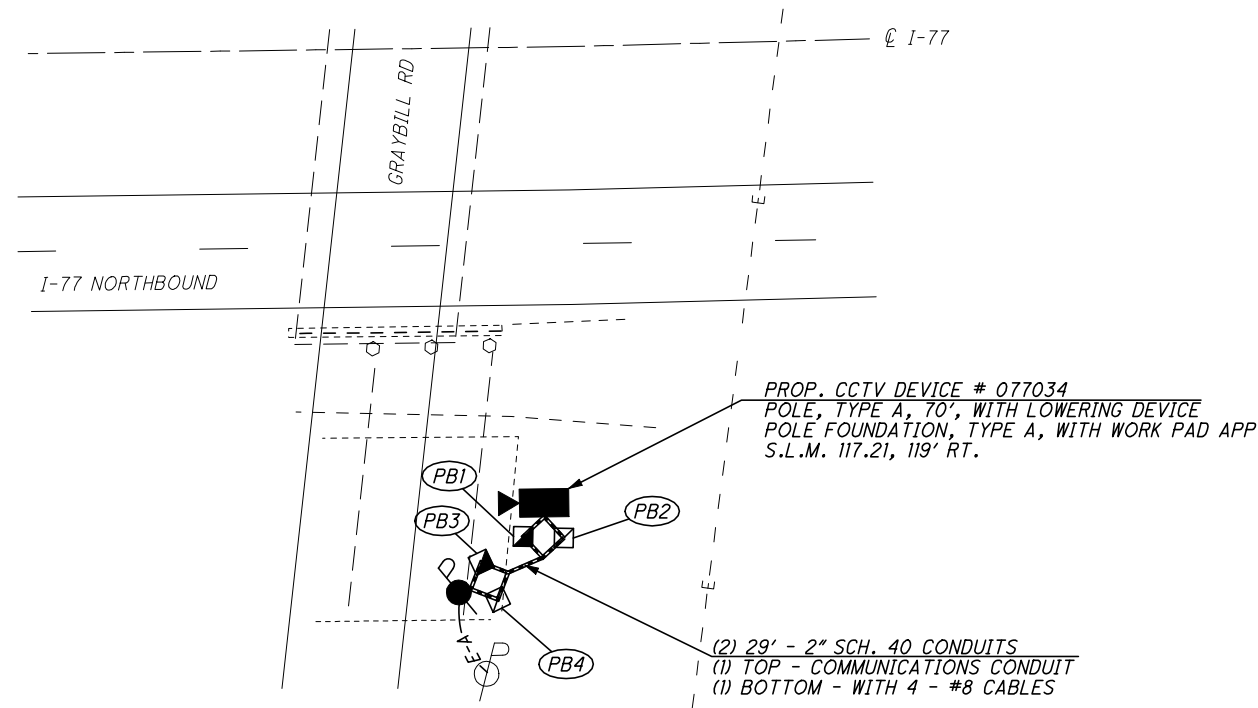




 HORIZONTAL SCALE IN FEET



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
 REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

I-77 AT GRAYBILL RD. (MP 116.94 TO 117.51)
 CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS

CCTV 077034

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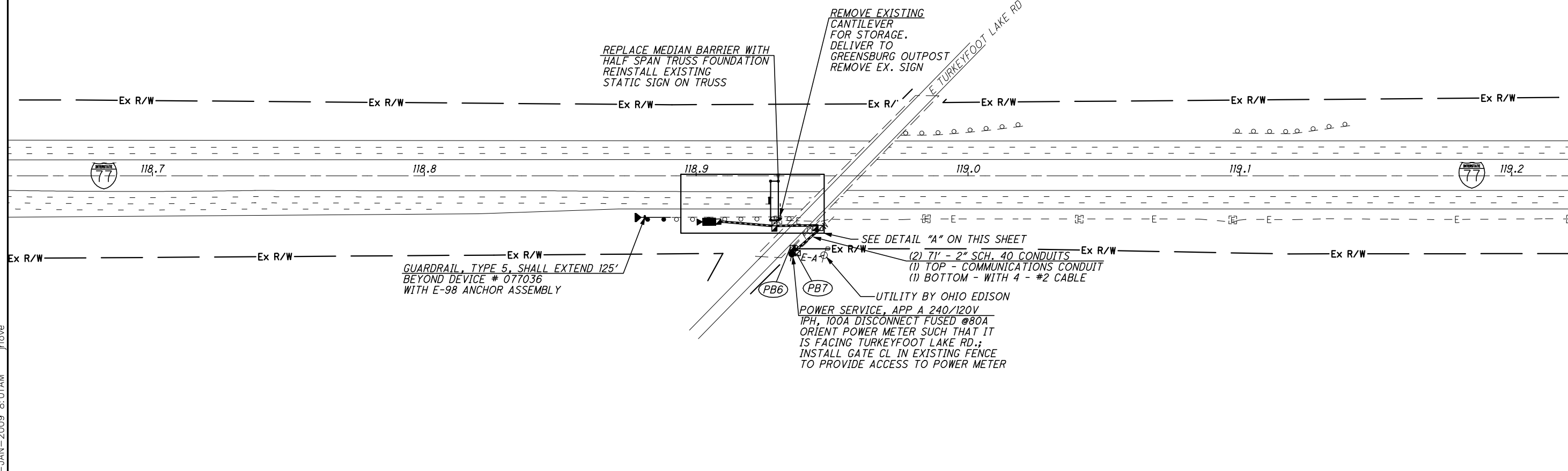
CALCULATED STS CHECKED JDG

I-77 AT TURKEYFOOT LAKE RD. (MP 118.69 TO 119.26)
CITY OF GREEN, SUMMIT COUNTY

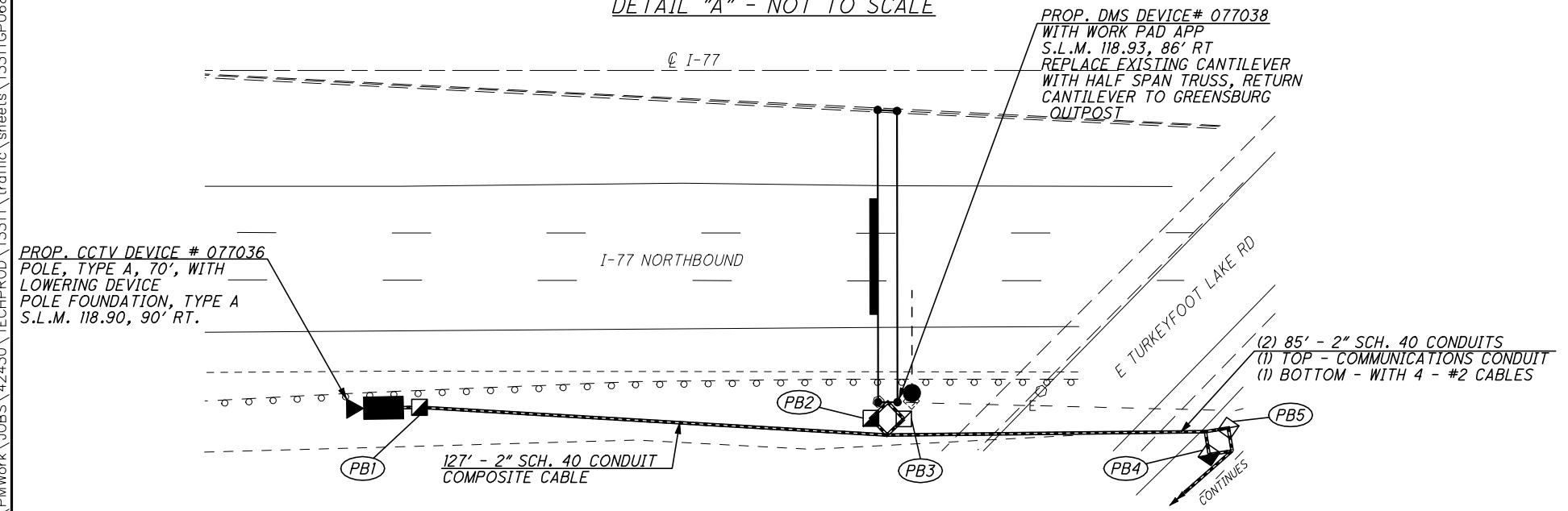
STA-SUM ITS

90
154

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.91, 90' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.92, 97' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.92, 97' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.94, 101' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.94, 101' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.94, 145' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 118.94, 145' RT.



DETAIL "A" - NOT TO SCALE

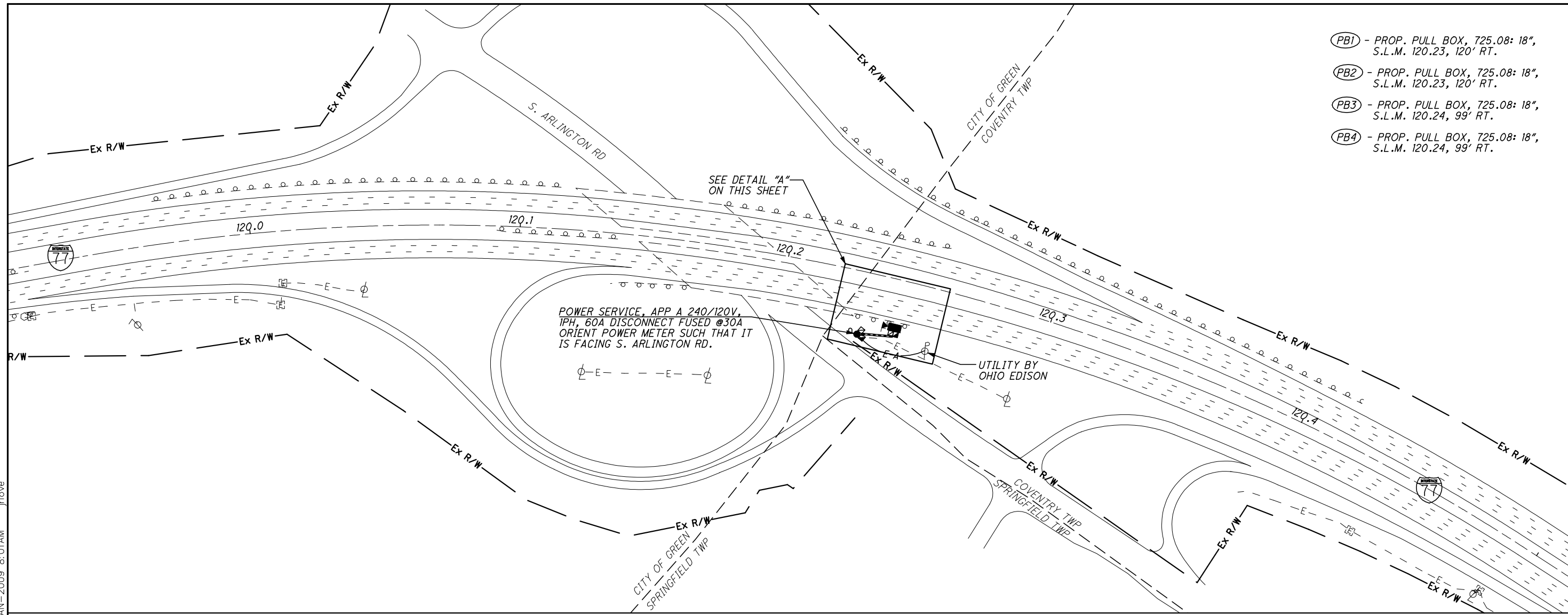


- REFER TO STANDARD CONSTRUCTION DRAWING RM-4.4 FOR BARRIER TRANSITION DETAILS
- REFER TO SHEET 9 FOR CONCRETE BARRIER REPLACEMENT DETAILS
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO TRUSS ROW SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO CONCRETE BARRIER MEDIAN TRUSS AND PEDESTAL SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 127 FOR DMS PROFILE
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 153 FOR TYPICAL CCTV-DMS SHARED EOC COMMUNICATIONS DETAILS
- REFER TO SHEET 154 FOR TYPICAL CCTV-DMS WITH COMPOSITE CABLE COMMUNICATIONS DETAILS

CCTV 077036
DMS 077038

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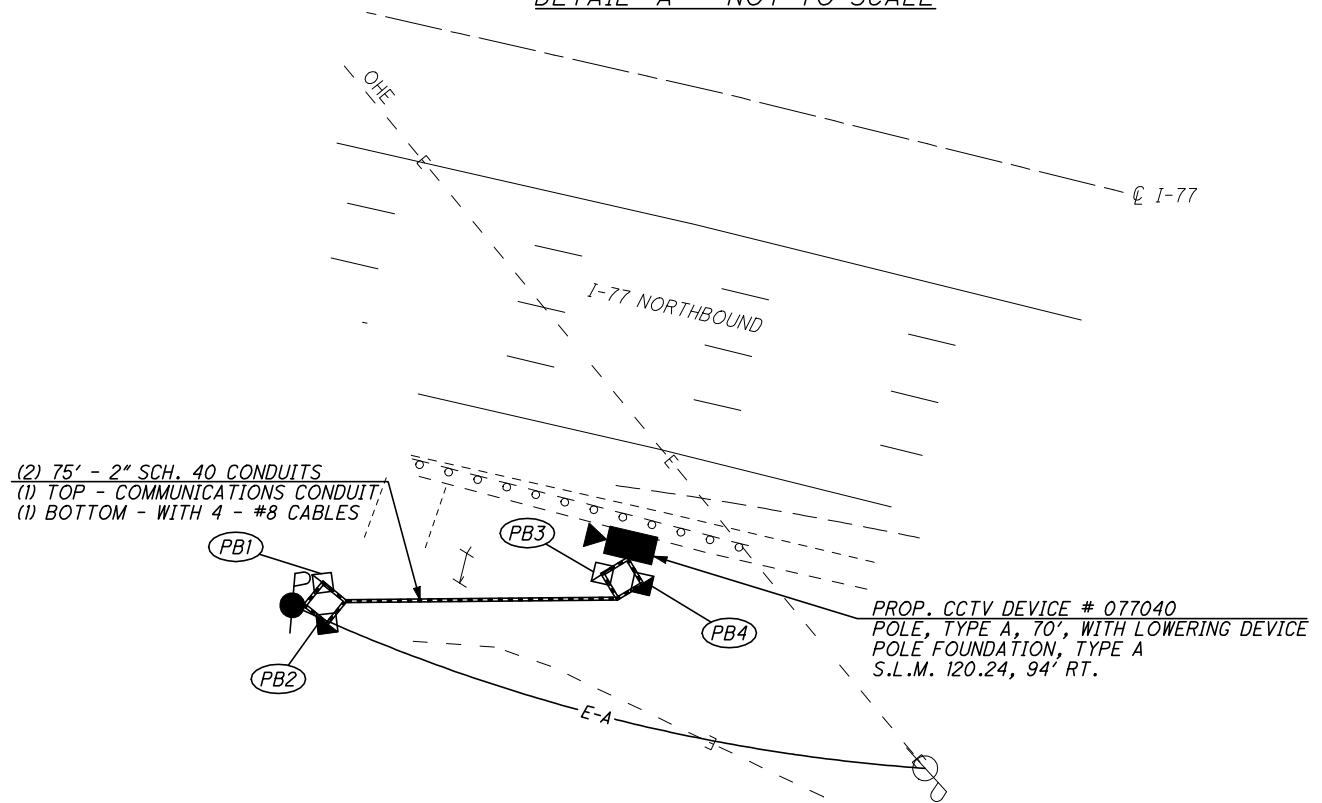


- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 120.23, 120' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 120.23, 120' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 120.24, 99' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 120.24, 99' RT.

HORIZONTAL SCALE IN FEET

CALCULATED STS CHECKED JDG
I-77 AT ARLINGTON RD. (MP 119.89 TO MP 120.5)
CITY OF GREEN, SUMMIT COUNTY

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

STA-SUM ITS

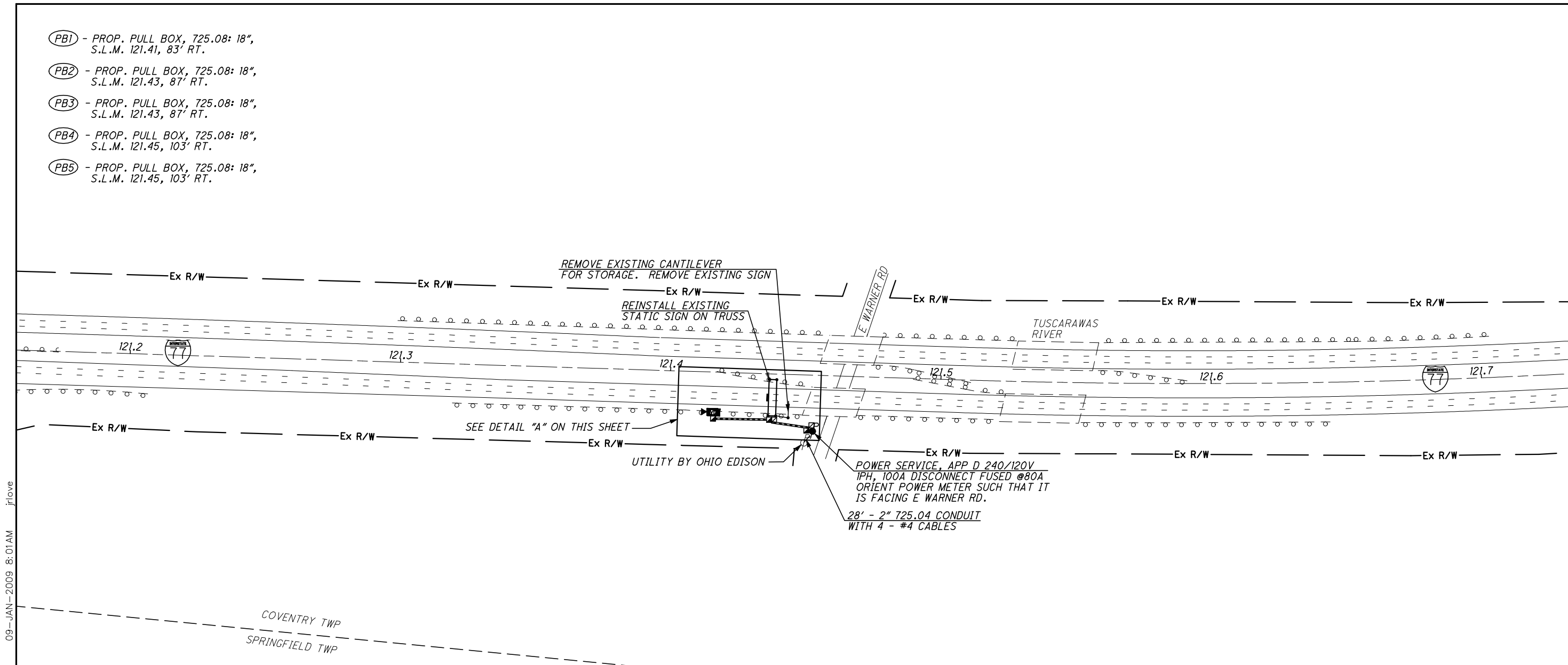
CCTV 077040

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 121.41, 83' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 121.43, 87' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 121.43, 87' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 121.45, 103' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 121.45, 103' RT.

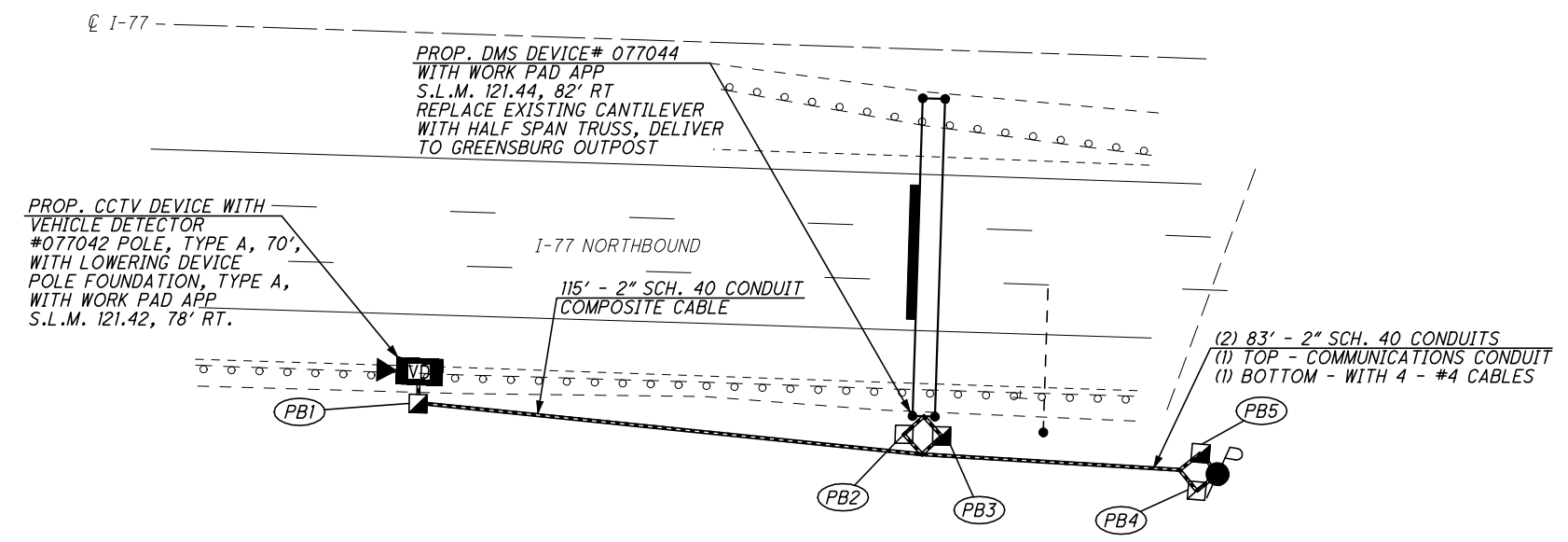
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HORIZONTAL SCALE IN FEET

CALCULATED STS CHECKED JDG



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 14 FOR TYPICAL POWER SERVICE AS PER PLAN D DETAILS
- REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO TRUSS ROW SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 127 FOR DMS PROFILE
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 152 FOR TYPICAL CCTV W/V D - DMS SHARED T-1 COMMUNICATIONS DETAILS
- REFER TO SHEET 155 FOR TYPICAL CCTV W/V D - DMS WITH COMPOSITE CABLE COMMUNICATIONS DETAILS

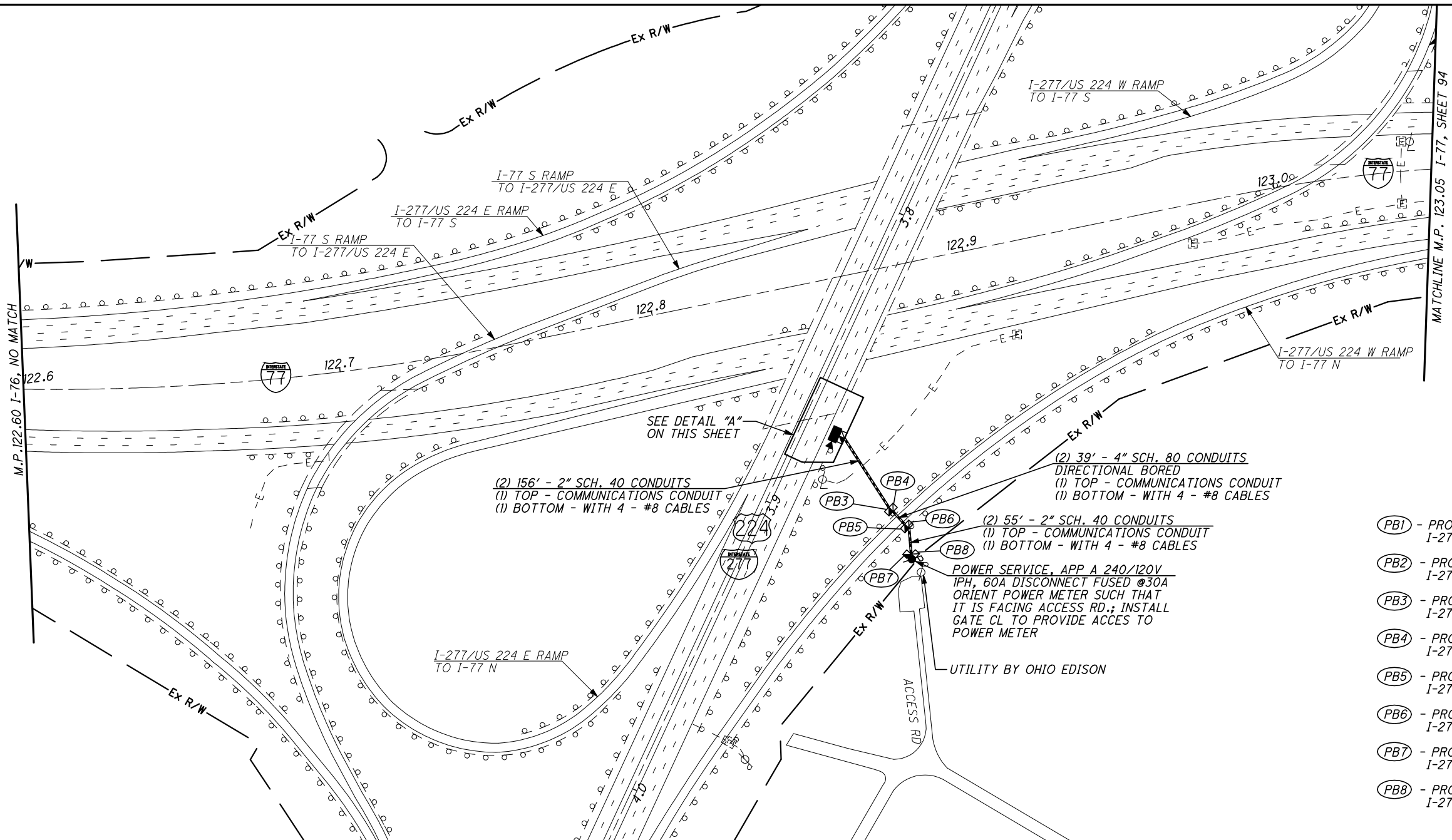
CCTV 077042
DMS 077044

I-77 AT WARNER RD. (MP 121.16 TO MP 121.74)
COVENTRY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

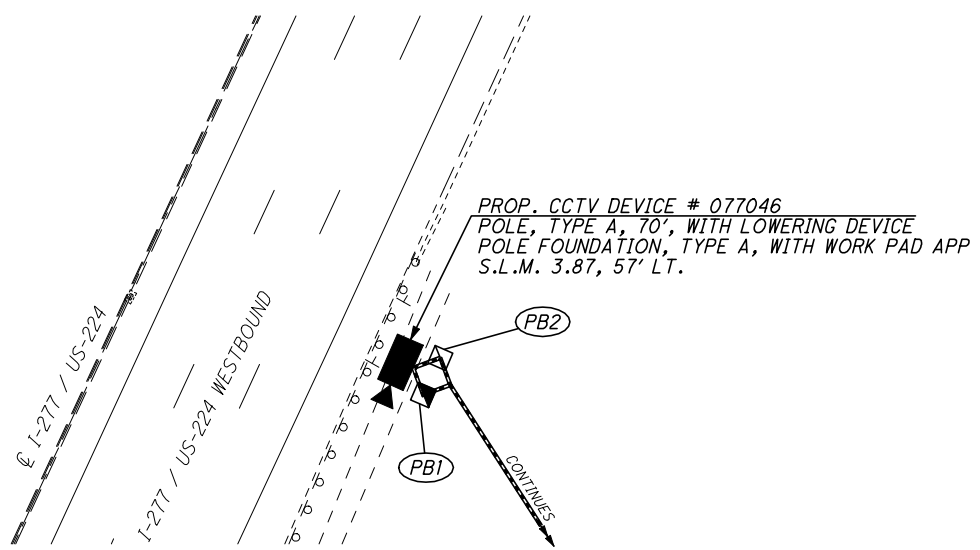
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\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP075.dgn 09-JAN-2009 8:01AM jrlove



- (PB1) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.88, 62' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.88, 62' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.89, 195' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.89, 195' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.89, 230' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.89, 230' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.90, 256' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", I-277 S.L.M. 3.90, 256' LT.

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION
 AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE
 AS PER PLAN A DETAILS
 REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS
 PLANS
 REFER TO SHEET 145 FOR TYPICAL CCTV EOC
 COMMUNICATIONS DETAILS

CCTV 077046

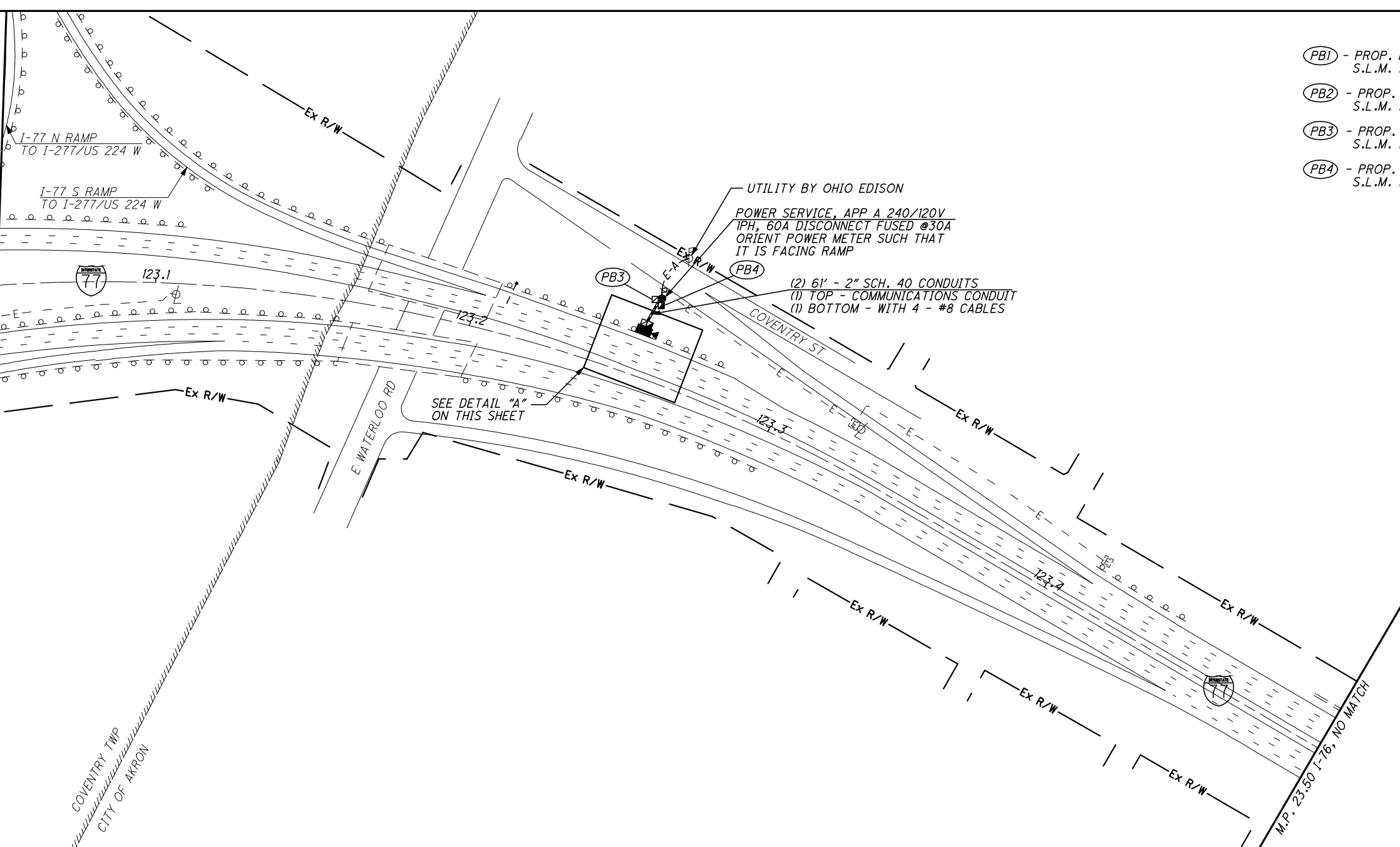
CALCULATED STS CHECKED JDG
 0 50 100 200
 HORIZONTAL SCALE IN FEET

I-77 AT I-277 (MP 122.60 TO MP 123.05)
 COVENTRY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

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MATCHLINE M.P. 123.05 I-77, SHEET 93

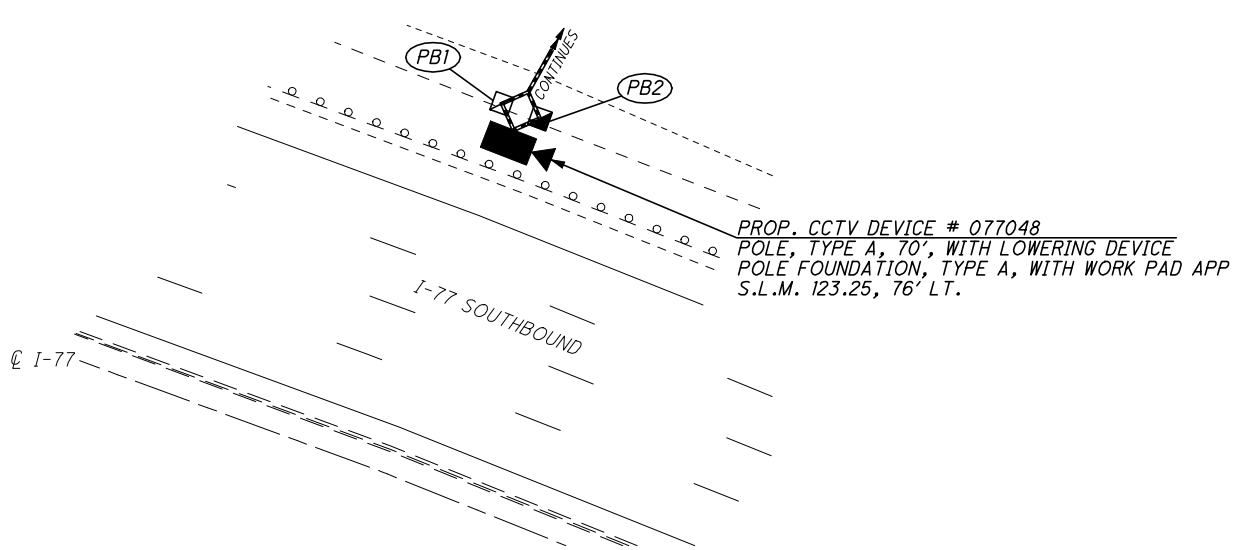


- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 123.25, 81' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 123.25, 81' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 123.25, 128' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 123.25, 128' LT.

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS

REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

I-77 AT I-277 (MP 123.05 TO MP 123.50)
COVENTRY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

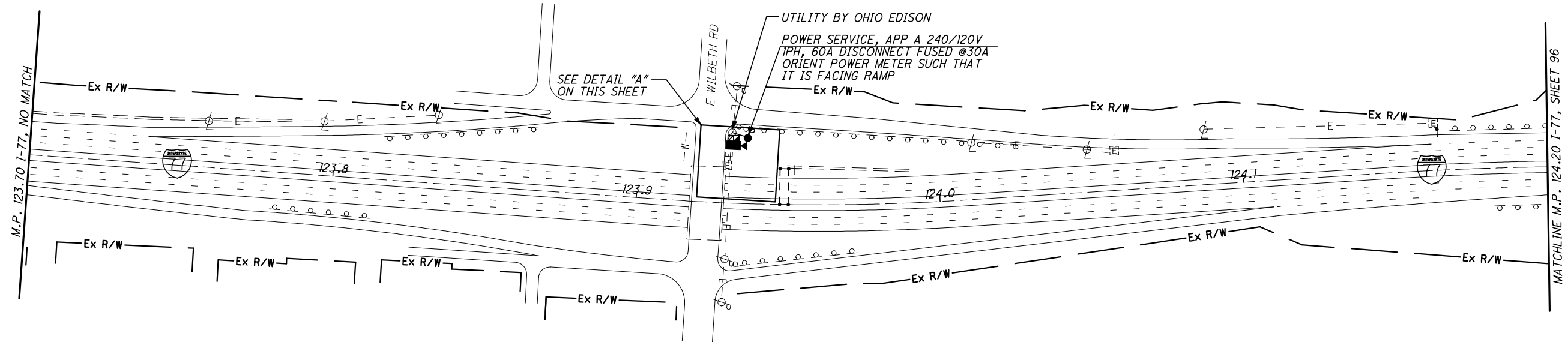
CCTV 077048

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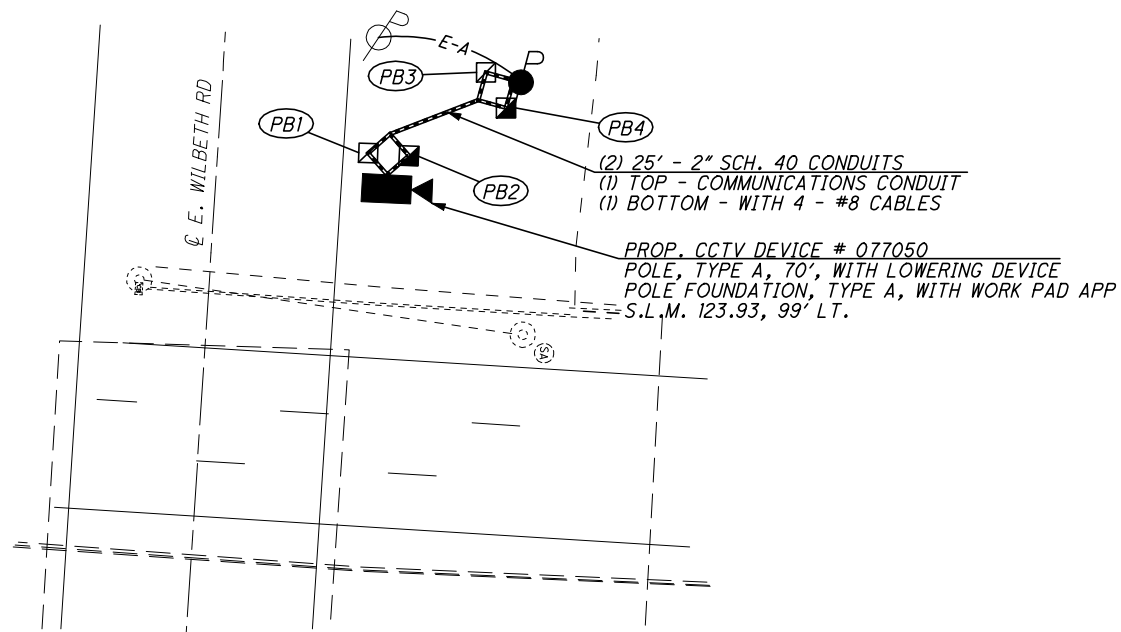
- (PB1) - PROP. PULL BOX, 725.08: 18" S.L.M. 123.93, 104' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18" S.L.M. 123.93, 104' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18" S.L.M. 123.94, 117' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18" S.L.M. 123.94, 117' LT.

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET



DETAIL "A" - NOT TO SCALE



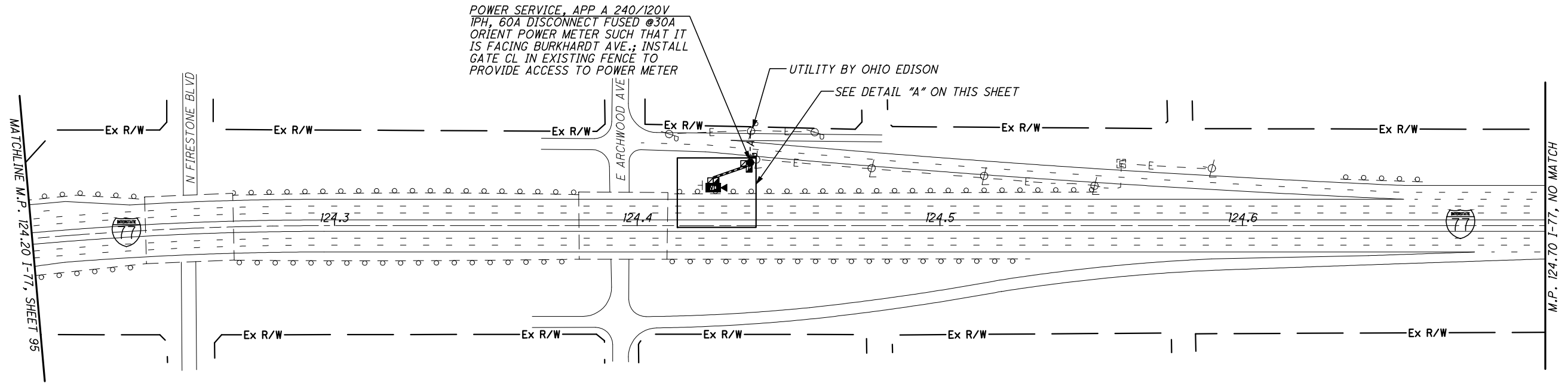
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 136 FOR TYPICAL COMMUNICATIONS PLANS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 077050

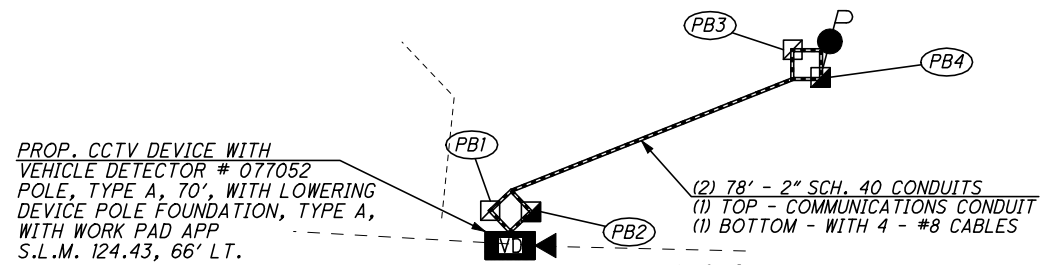
I-77 AT WILBETH RD. (MP 123.70 TO MP 124.20)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 124.42, 71' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 124.42, 7' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 124.43, 104' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 124.43, 104' LT.



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
 REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 146 FOR TYPICAL CCTV W/VD EOC COMMUNICATIONS DETAILS

I-77 SOUTHBOUND

I-77

CCTV 077052

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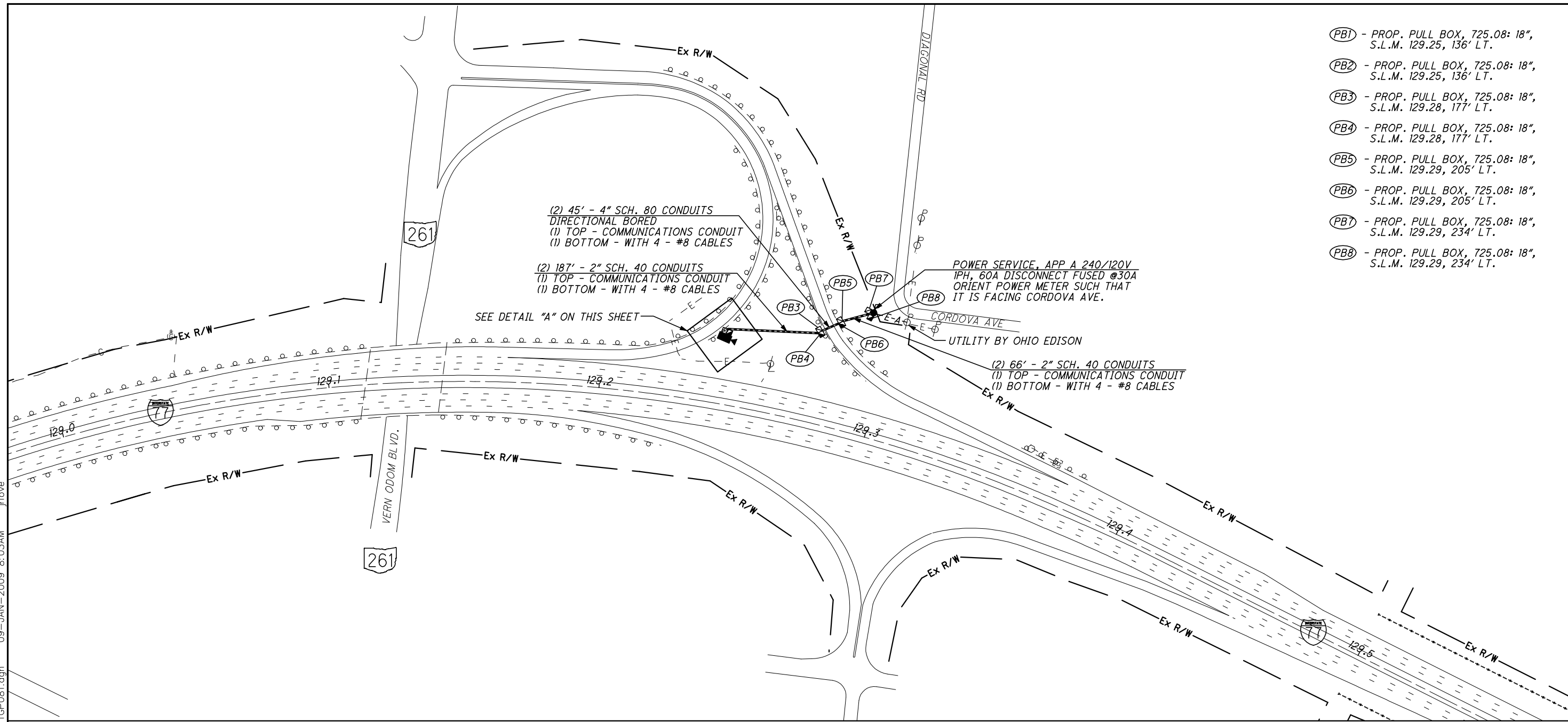
0 50 100 200
HORIZONTAL SCALE IN FEET

CALCULATED STS	CHECKED JDG
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I-77 AT ARCHWOOD AVE. (MP 124.20 TO MP 124.70)
 CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

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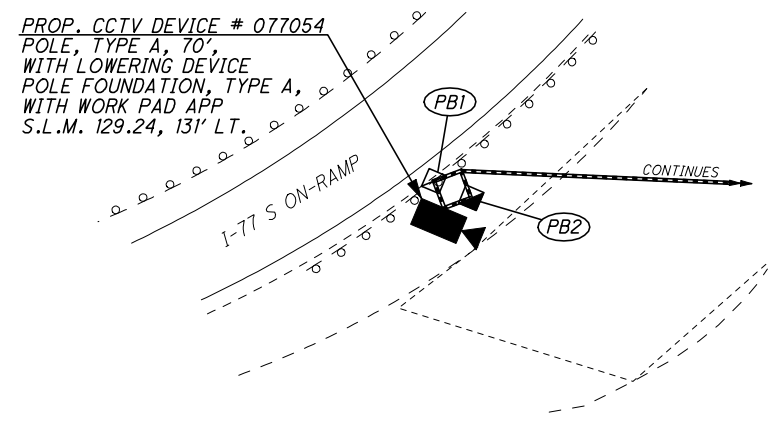


- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.25, 136' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.25, 136' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.28, 177' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.28, 177' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.29, 205' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.29, 205' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.29, 234' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 129.29, 234' LT.

CALCULATED STS CHECKED JDC

0 50 100 200
HORIZONTAL SCALE IN FEET

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

I-77 AT SR-261 (MP 128.98 TO MP 129.55)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

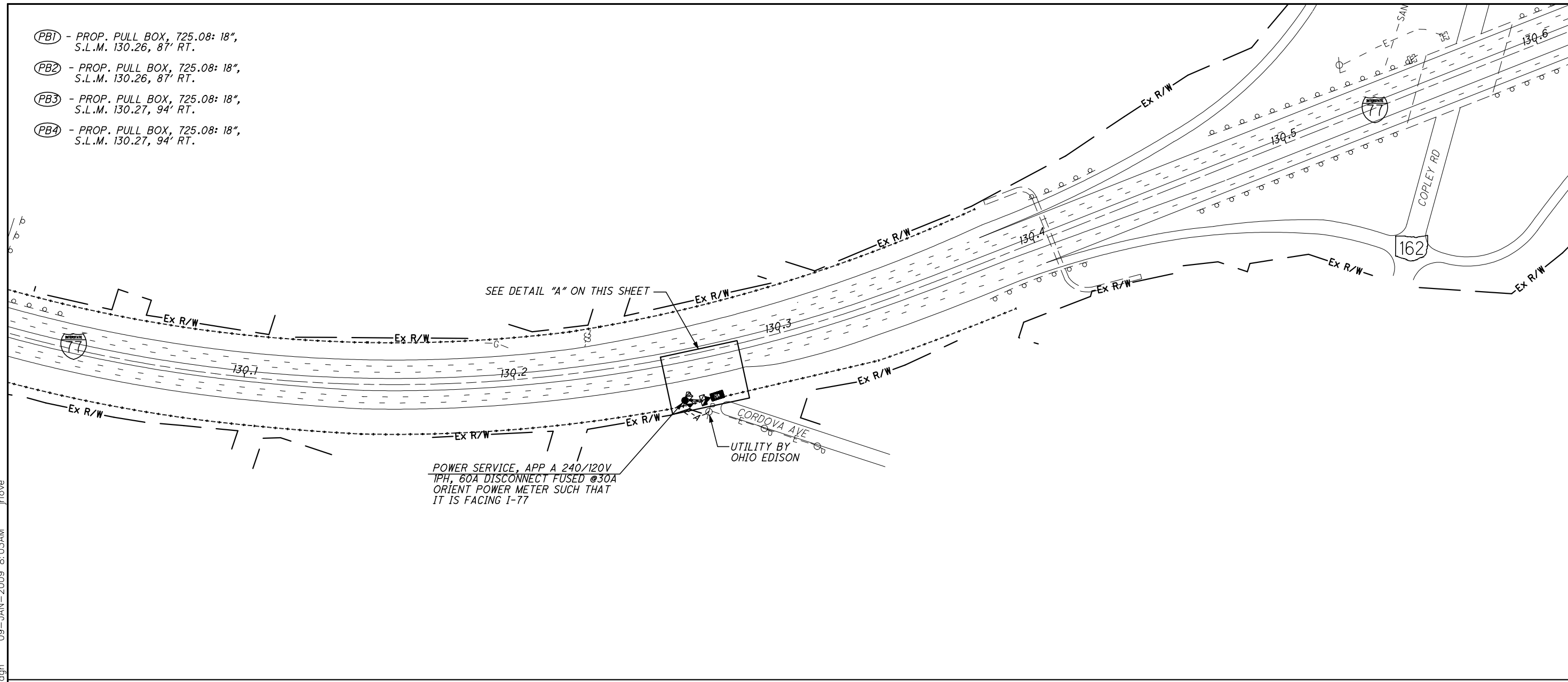
CCTV 077054

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 130.26, 87' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 130.26, 87' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 130.27, 94' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 130.27, 94' RT.

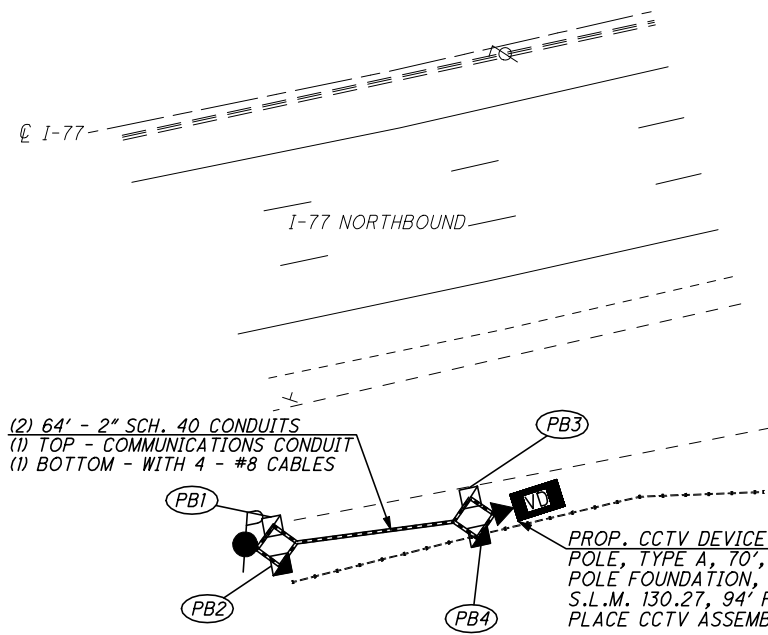
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0 50 100 200
HORIZONTAL SCALE IN FEET

CALCULATED	STS	CHECKED	JDC
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DETAIL "A" - NOT TO SCALE



(2) 64' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

PROP. CCTV DEVICE WITH VEHICLE DETECTOR # 077056
 POLE, TYPE A, 70', WITH LOWERING DEVICE
 POLE FOUNDATION, TYPE A, WITH WORK PAD APP
 S.L.M. 130.27, 94' RT.
 PLACE CCTV ASSEMBLY INSIDE OF NOISE WALL

- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 144 FOR TYPICAL CCTV W/VD T-1 COMMUNICATIONS DETAILS

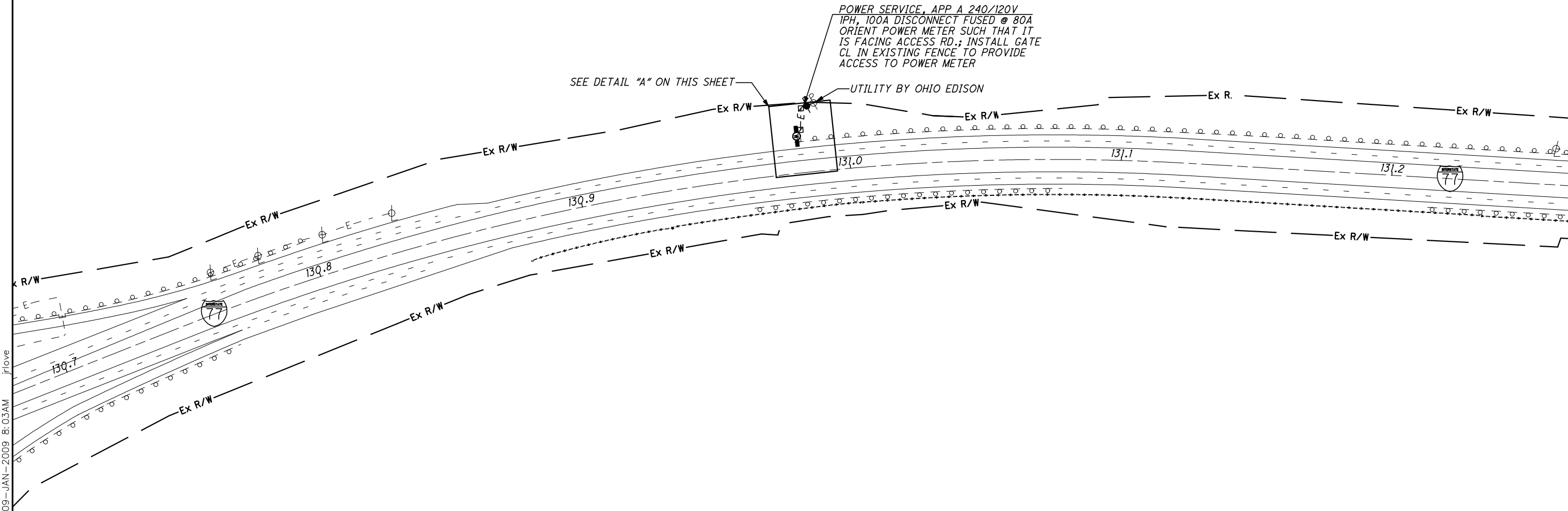
CCTV 077056

I-77 AT SR-162 (MP 130.01 TO MP 130.61)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 130.99, 114' LT.

(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 130.99, 72' LT.

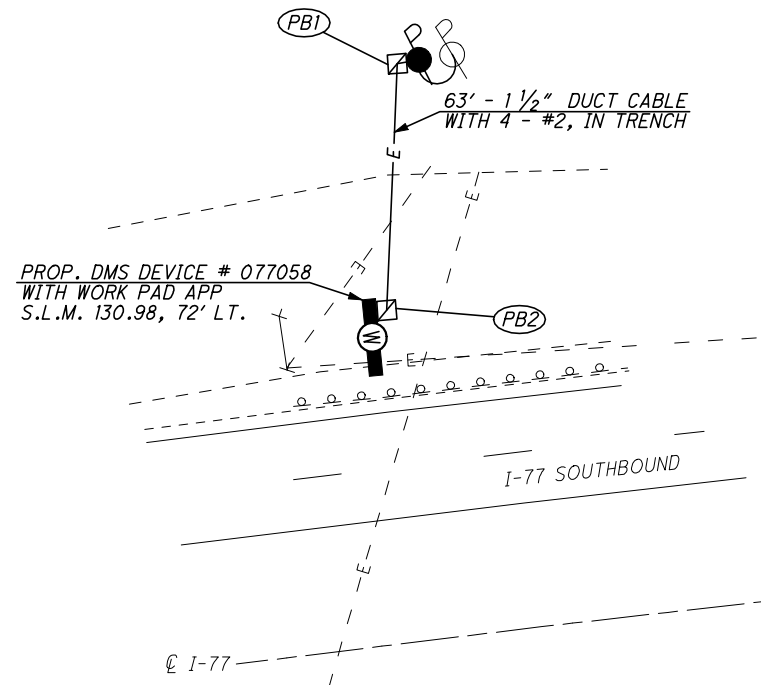


CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-77 N OF SR-162 (MP 130.68 TO MP 131.27)
CITY OF AKRON, SUMMIT COUNTY

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 12A FOR PULL BOX ORIENTATION FOR DMS LOCATIONS DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS PEDESTAL DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

DMS 077058

STA-SUM ITS
99
154

09-JAN-2009 8:03AM jrllove
\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP085.dgn

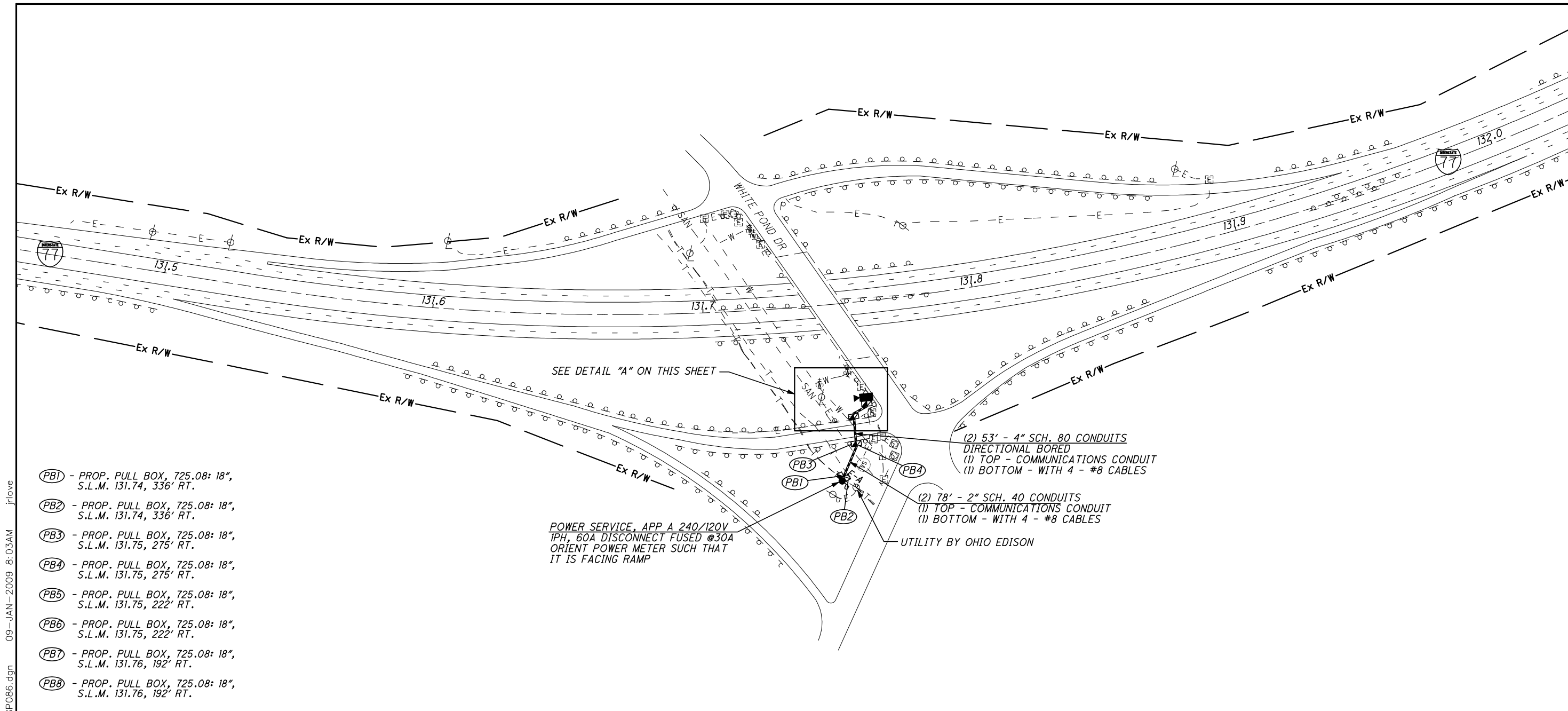


CALCULATED STS CHECKED JDG

I-77 AT WHITE POND DR. (MP 131.43 TO MP 130.02)
CITY OF AKRON, SUMMIT COUNTY

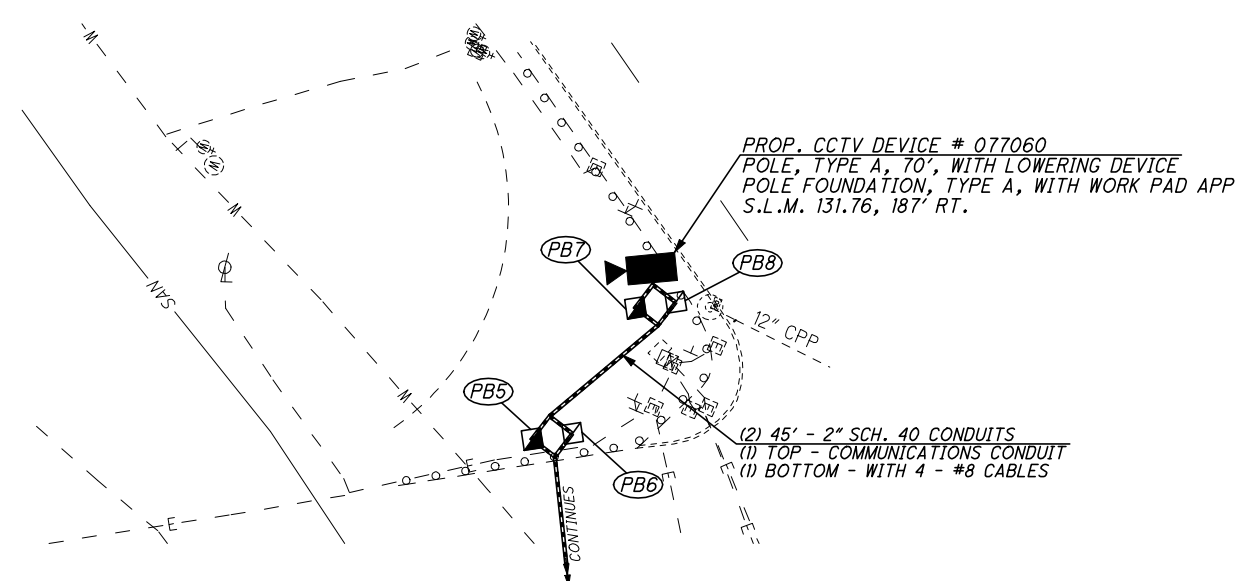
STA-SUM ITS

100
154



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.74, 336' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.74, 336' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.75, 275' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.75, 275' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.75, 222' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.75, 222' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.76, 192' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 131.76, 192' RT.

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS

REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

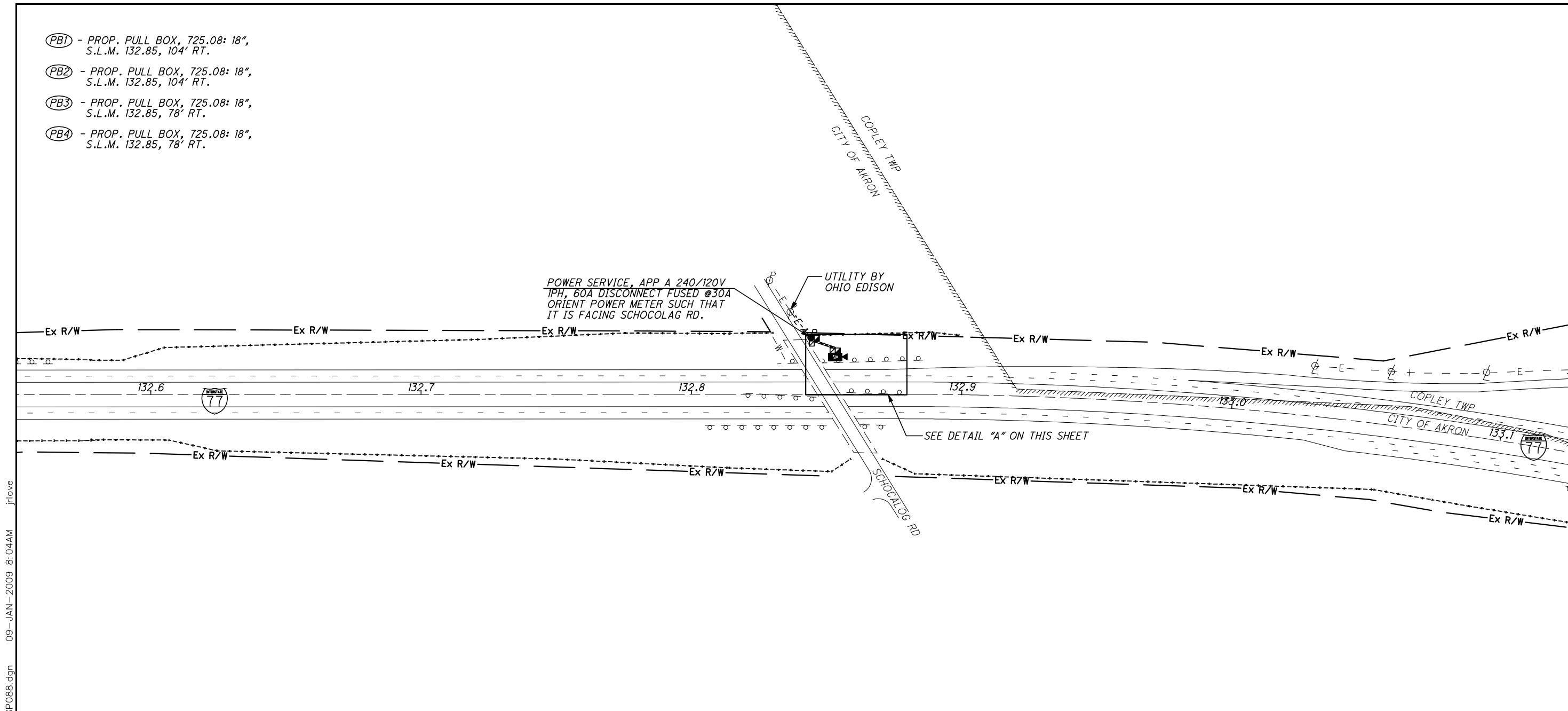
CCTV 077060

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP086.dgn 09-JAN-2009 8:03AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 132.85, 104' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 132.85, 104' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 132.85, 78' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 132.85, 78' RT.

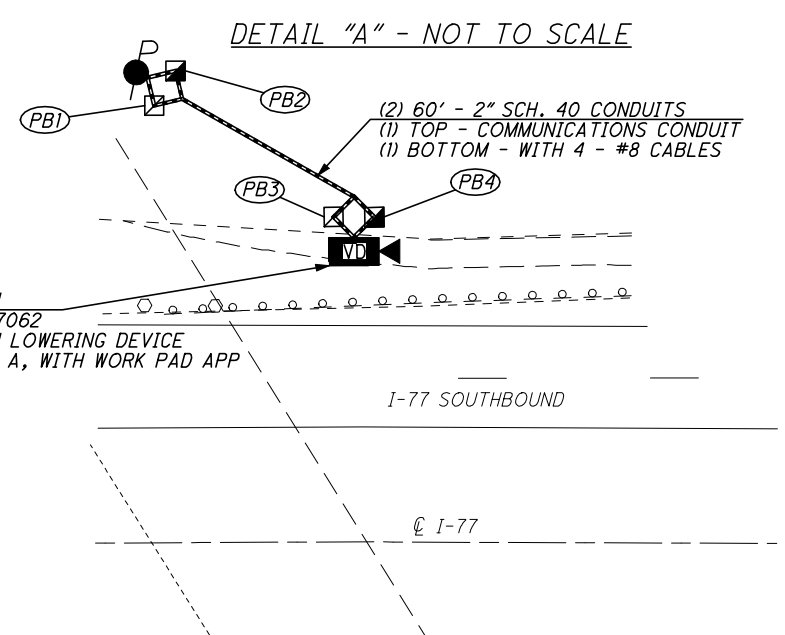
CALCULATED STS CHECKED JDG

0 50 100 200
HORIZONTAL SCALE IN FEET



\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP088.dgn 09-JAN-2009 8:04AM jrlove

I-77 AT SCHOCALOG RD. (MP 132.55 TO MP 133.13)
 CITY OF AKRON, SUMMIT COUNTY

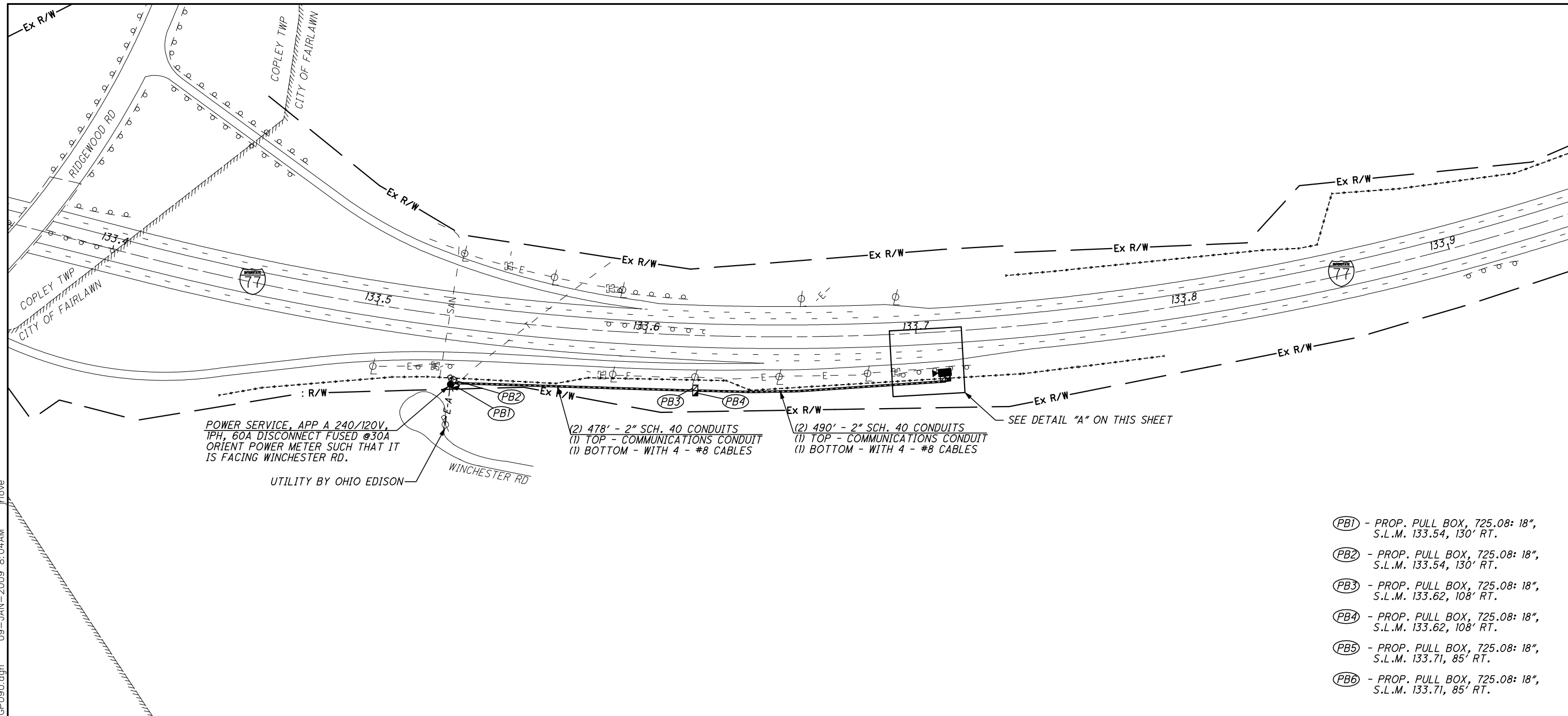


- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 144 FOR TYPICAL CCTV W/VD T-1 COMMUNICATIONS DETAILS

STA-SUM ITS
 101
 154

CCTV 077062

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP090.dgn 09-JAN-2009 8:04AM jrllove



POWER SERVICE, APP A 240/120V,
1PH, 60A DISCONNECT FUSED @30A
ORIENT POWER METER SUCH THAT IT
IS FACING WINCHESTER RD.

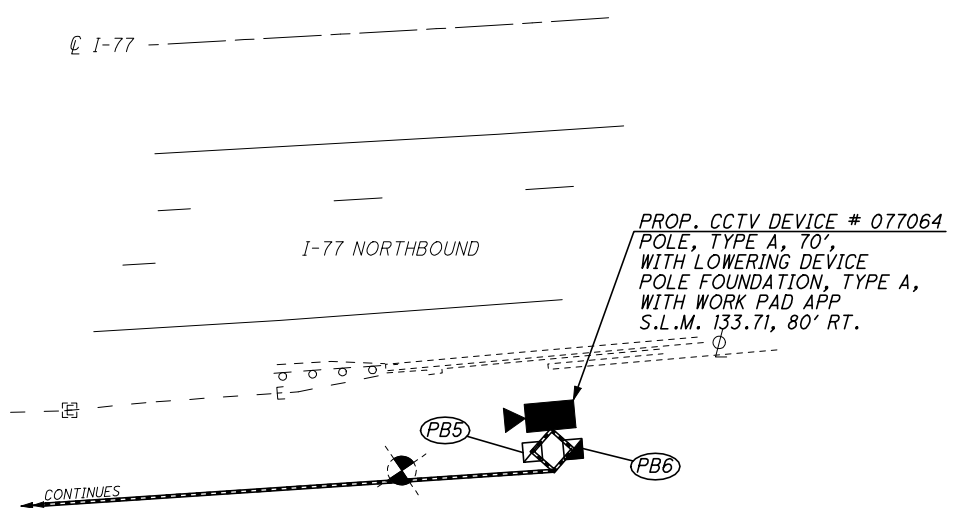
(2) 478' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

(2) 490' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

SEE DETAIL "A" ON THIS SHEET

- (PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 133.54, 130' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 133.54, 130' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18",
S.L.M. 133.62, 108' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18",
S.L.M. 133.62, 108' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18",
S.L.M. 133.71, 85' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18",
S.L.M. 133.71, 85' RT.

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION
 AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE
 AS PER PLAN A DETAILS
 REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS
 PLANS
 REFER TO SHEET 145 FOR TYPICAL CCTV EOC
 COMMUNICATIONS DETAILS

CCTV 077064

I-77 AT RIDGEWOOD RD. (MP 133.36 TO MP 133.95)
 CITY OF FAIRLAWN, SUMMIT COUNTY

STA-SUM ITS

102
154

CALCULATED STS CHECKED JDC

HORIZONTAL SCALE IN FEET
0 50 100 200

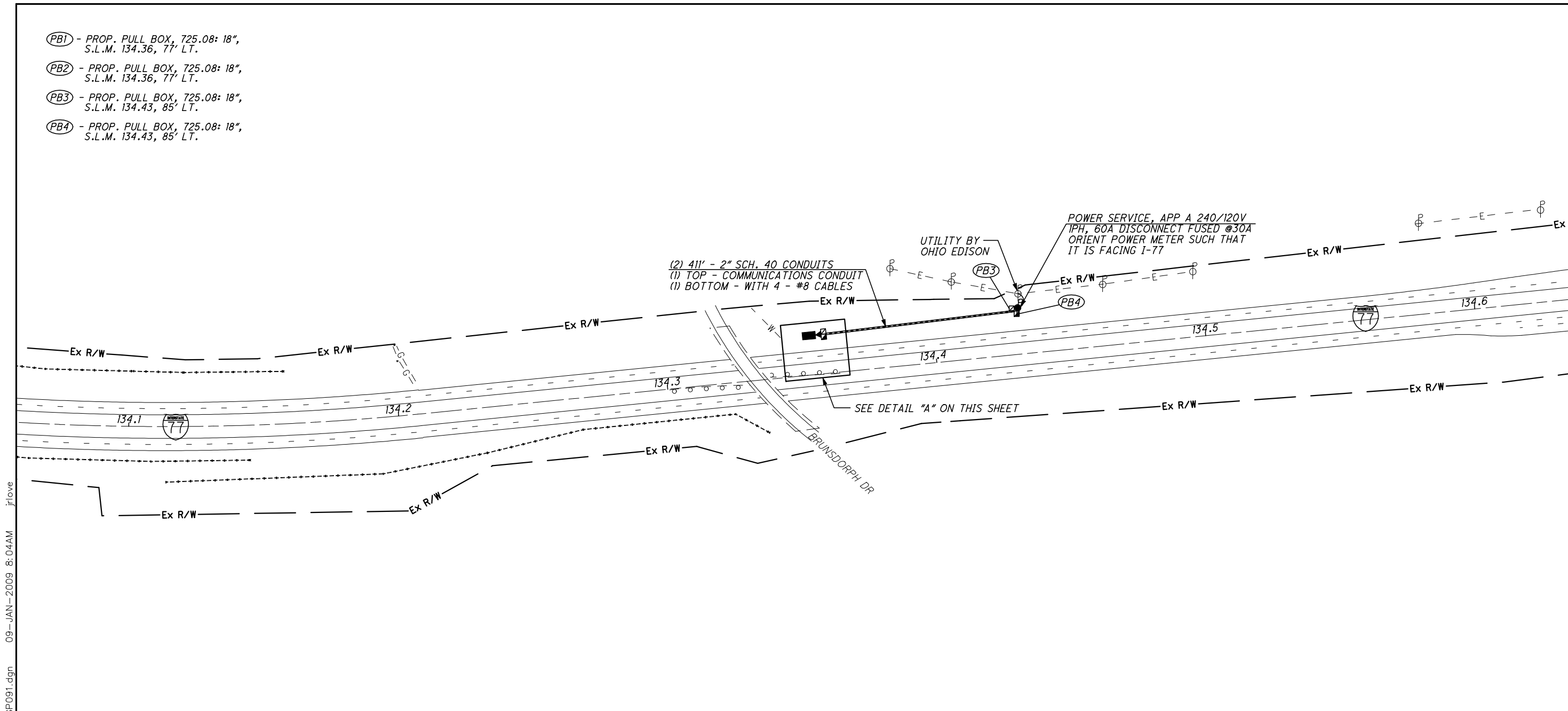
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 134.36, 77' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 134.36, 77' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 134.43, 85' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 134.43, 85' LT.



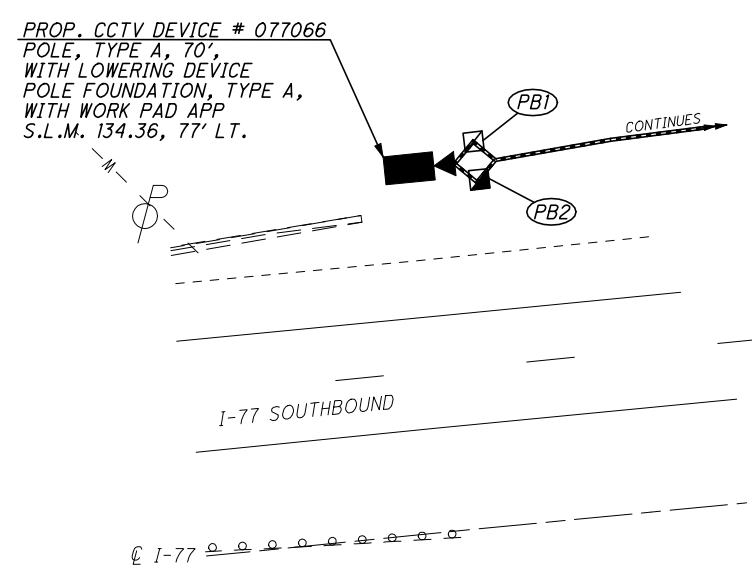
CALCULATED STS CHECKED JDG

I-77 AT BRUNSDORPH DR. (MP 134.06 TO MP 134.64)
CITY OF FAIRLAWN, SUMMIT COUNTY

STA-SUM ITS
103
154



DETAIL "A" - NOT TO SCALE

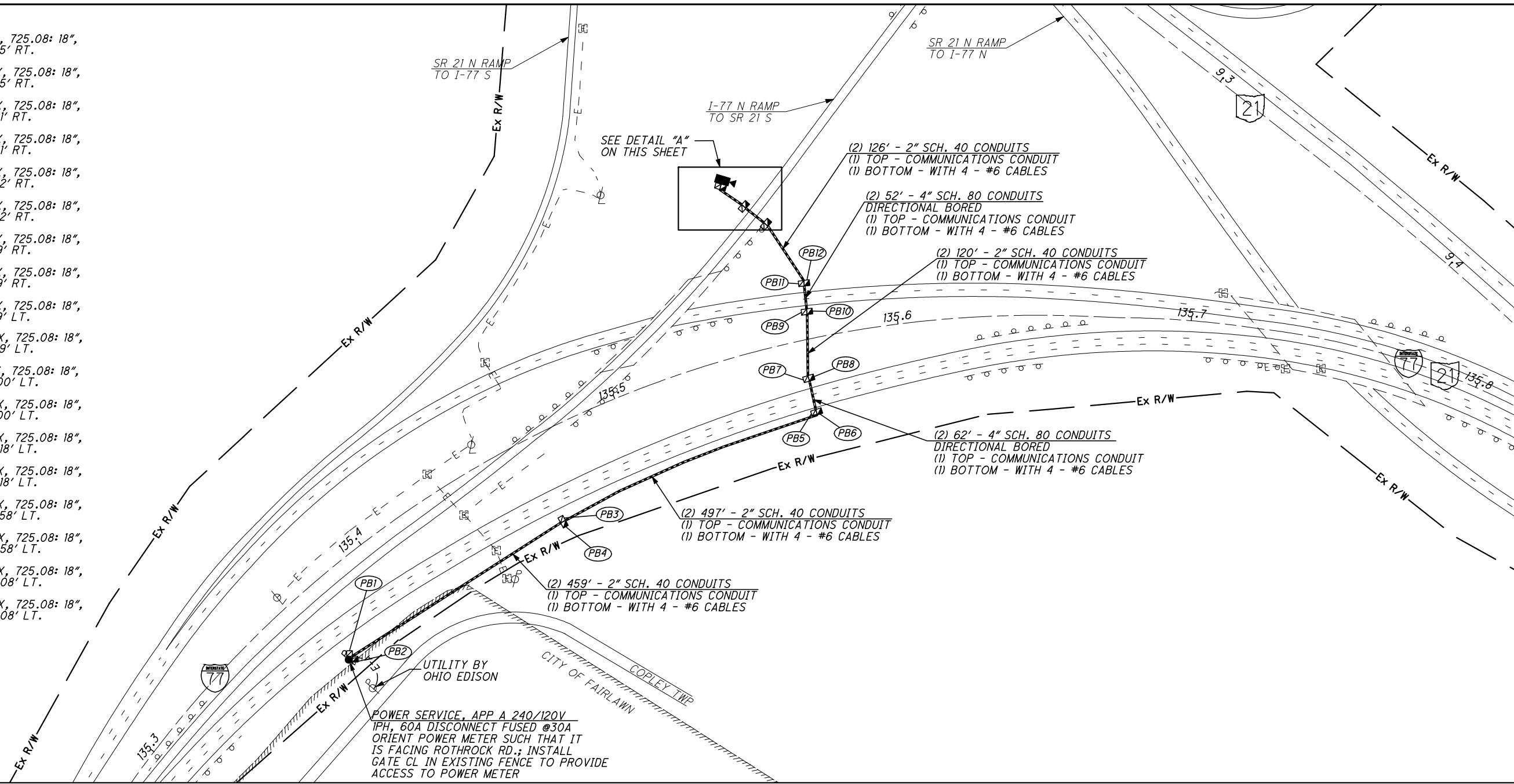


- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

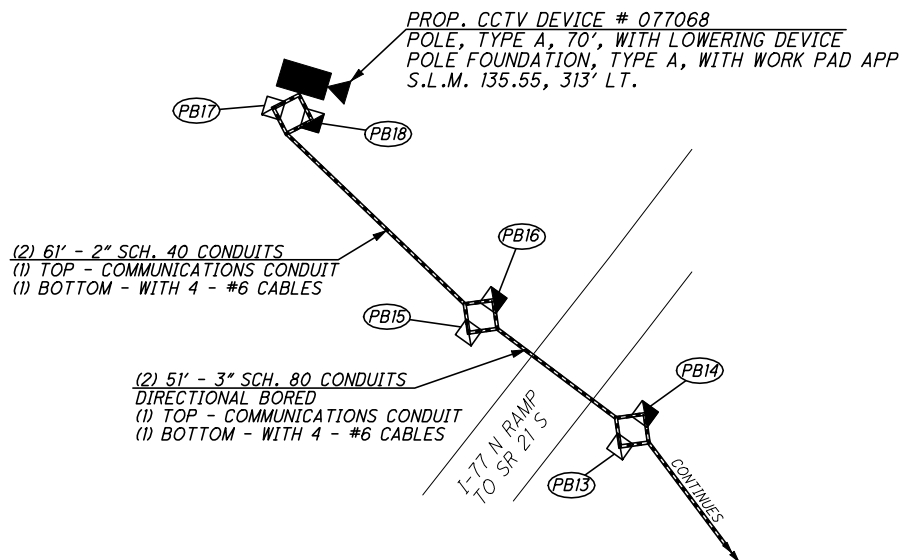
CCTV 077066

\\C:\ew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP091.dgn 09-JAN-2009 8:04AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.37, 145' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.37, 145' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.46, 161' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.46, 161' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 132' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 132' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 69' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 69' RT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.57, 49' LT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.57, 49' LT.
- (PB11) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.57, 100' LT.
- (PB12) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.57, 100' LT.
- (PB13) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 218' LT.
- (PB14) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 218' LT.
- (PB15) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 258' LT.
- (PB16) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.56, 258' LT.
- (PB17) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.55, 308' LT.
- (PB18) - PROP. PULL BOX, 725.08: 18", S.L.M. 135.55, 308' LT.



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
 REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 077068

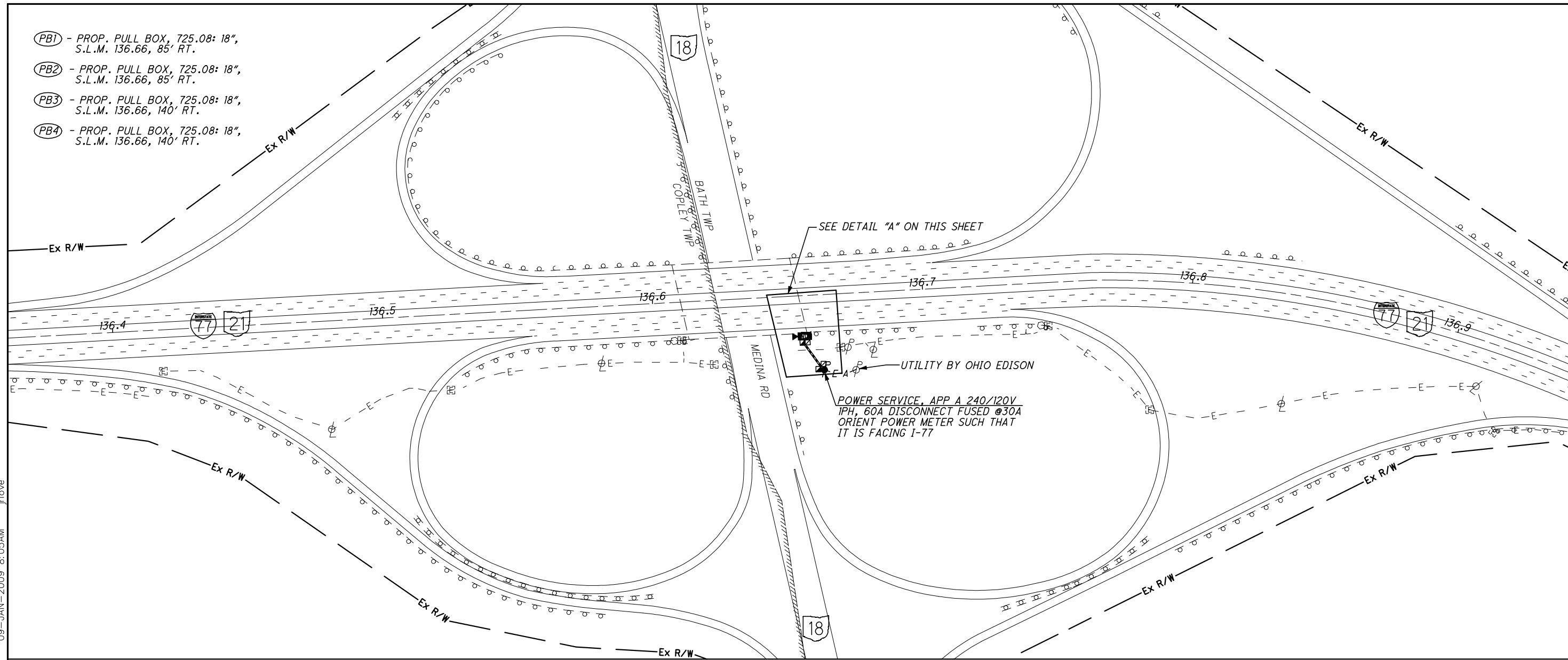


I-77 AT SR-21 (MP 135.29 TO MP 135.88)
 COPLEY TOWNSHIP, SUMMIT COUNTY

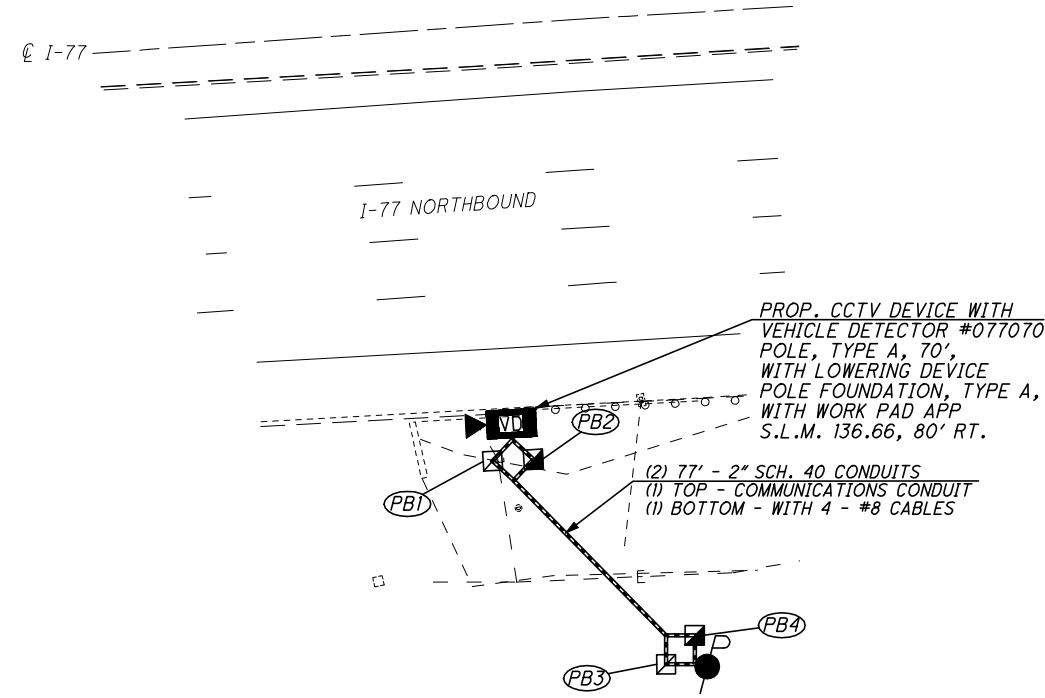
STA-SUM ITS

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheet\13311GP094.dgn 09-JAN-2009 8:05AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 136.66, 85' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 136.66, 85' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 136.66, 140' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 136.66, 140' RT.



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 144 FOR TYPICAL CCTV W/VD COMMUNICATIONS DETAILS

CCTV 077070

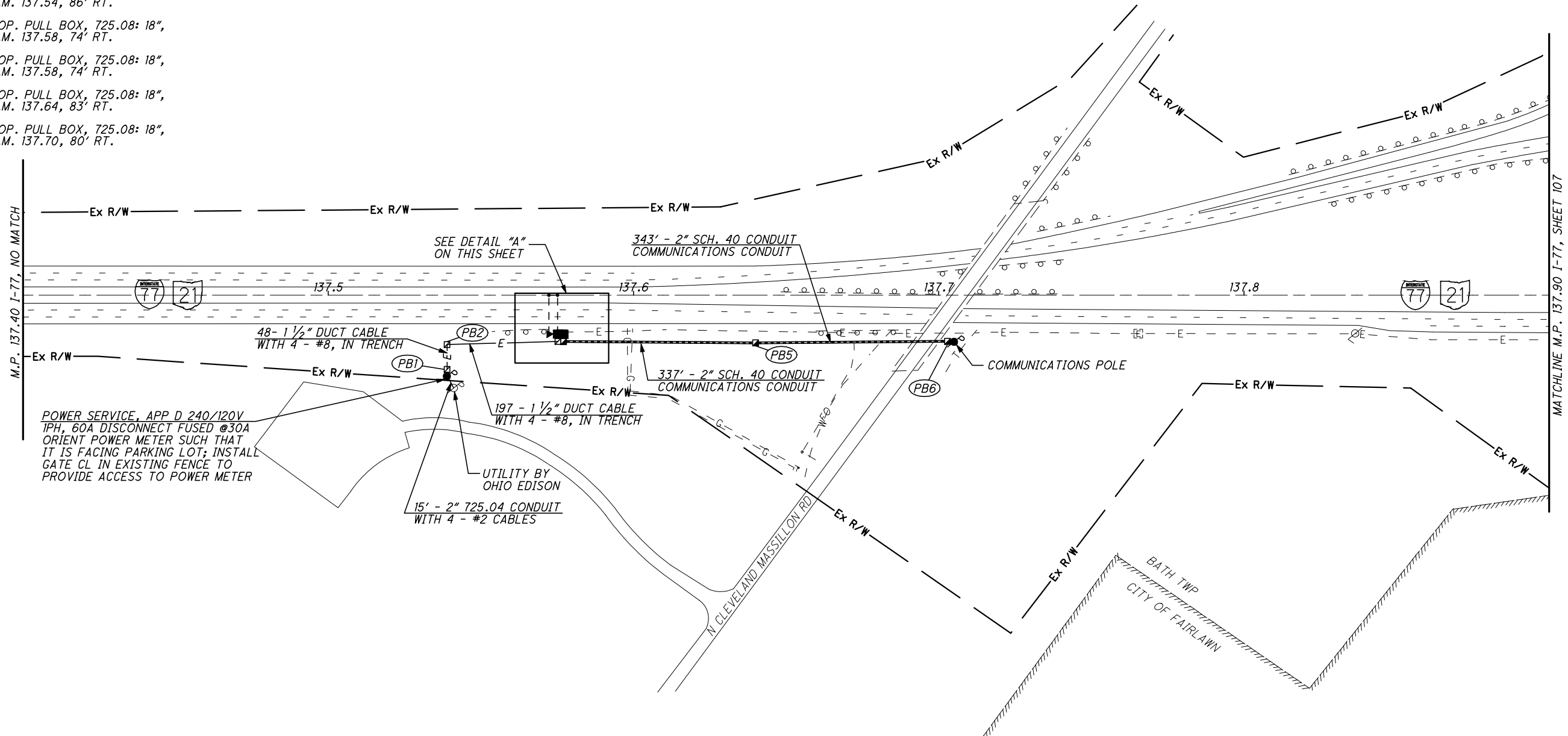
CALCULATED STS CHECKED JDG

I-77 AT SR-18 (MP 136.4 TO MP 136.9)
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

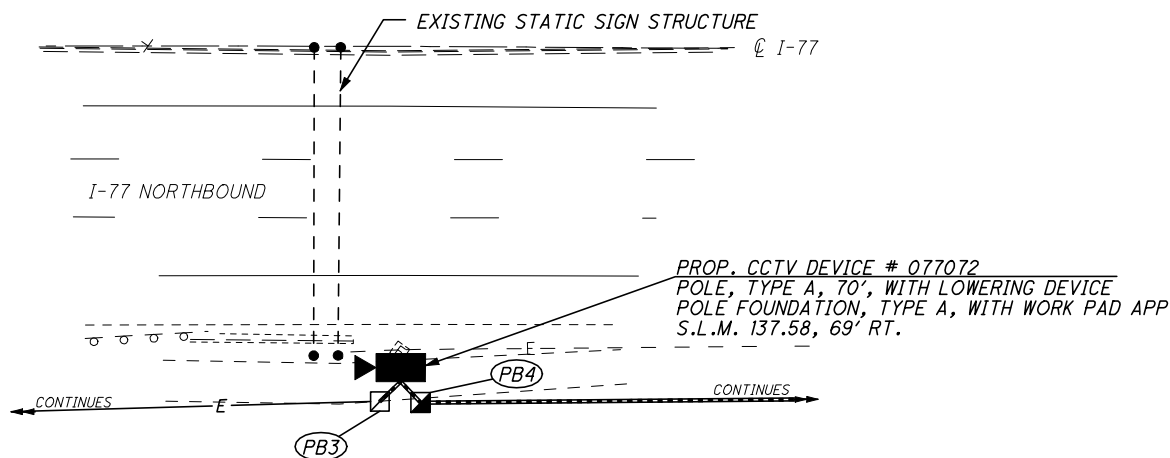
\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP096.dgn 09-JAN-2009 8:05AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 137.54, 128' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 137.54, 86' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 137.58, 74' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 137.58, 74' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 137.64, 83' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 137.70, 80' RT.



POWER SERVICE, APP D 240/120V
 1PH, 60A DISCONNECT FUSED @30A
 ORIENT POWER METER SUCH THAT
 IT IS FACING PARKING LOT; INSTALL
 GATE CL IN EXISTING FENCE TO
 PROVIDE ACCESS TO POWER METER

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 14 FOR TYPICAL POWER SERVICE AS PER PLAN D DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 077072

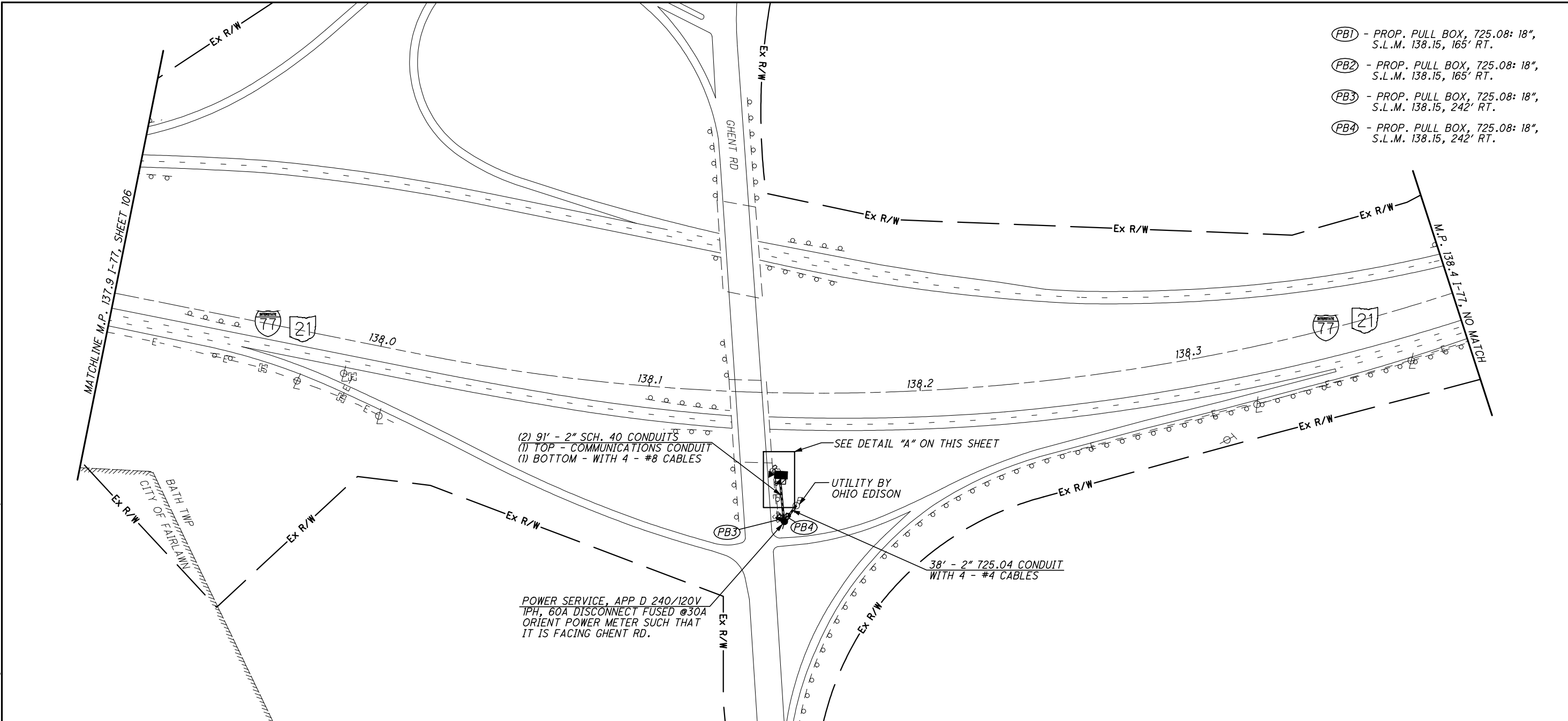
CALCULATED STS CHECKED JDG

I-77 AT CLEVE. MASS. RD. (MP 137.40 TO MP 137.90)
 BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP098.dgn 09-JAN-2009 8:05AM jrlove

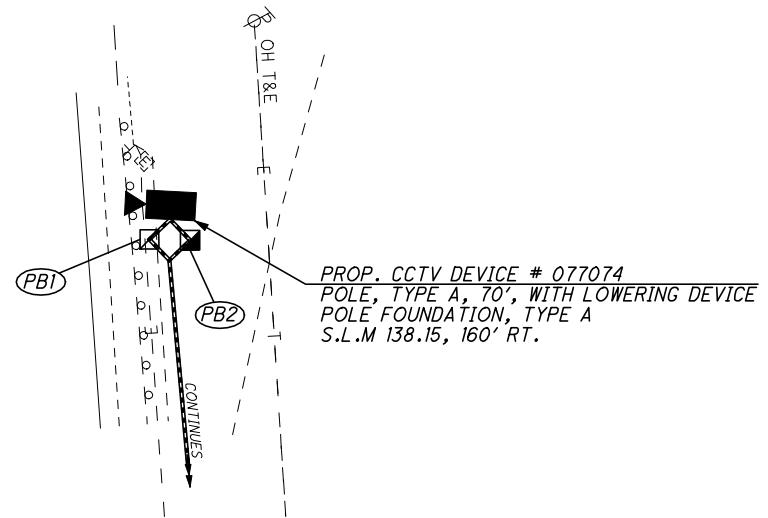
\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP099.dgn 09-JAN-2009 8:06AM jrlove



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 138.15, 165' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 138.15, 165' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 138.15, 242' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 138.15, 242' RT.

CALCULATED STS CHECKED JDG
 0 50 100 200
 HORIZONTAL SCALE IN FEET

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 14 FOR TYPICAL POWER SERVICE AS PER PLAN D DETAILS
 REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 077074

I-77 AT GHEENT RD. (MP 137.9 TO MP 138.4) BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

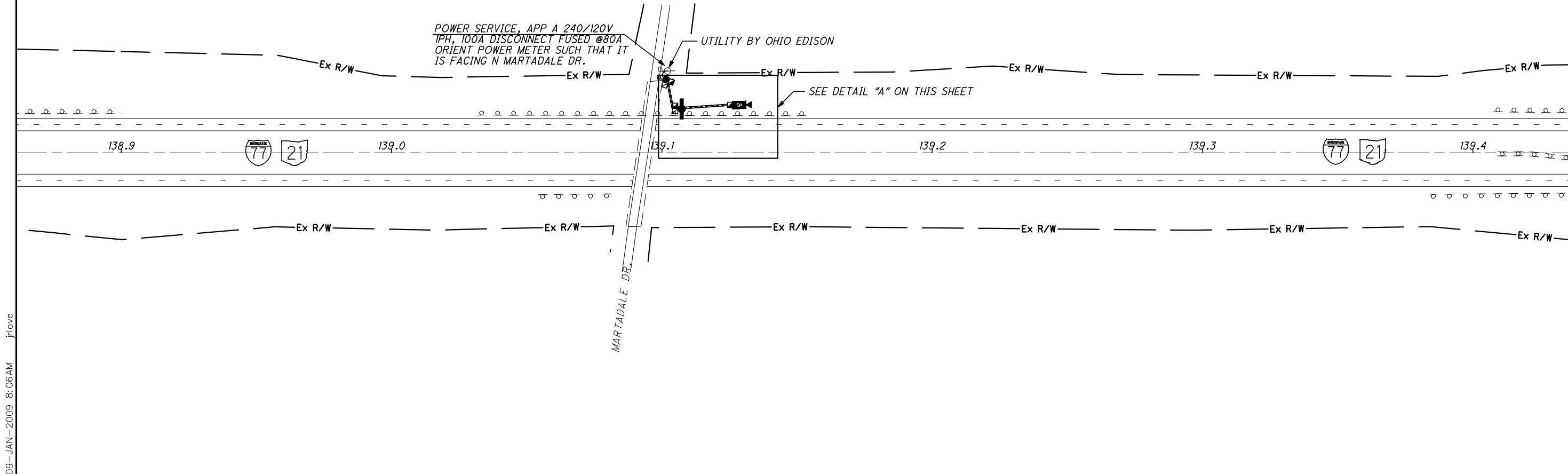
(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 139.10, 135' LT.

(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 139.10, 135' LT.

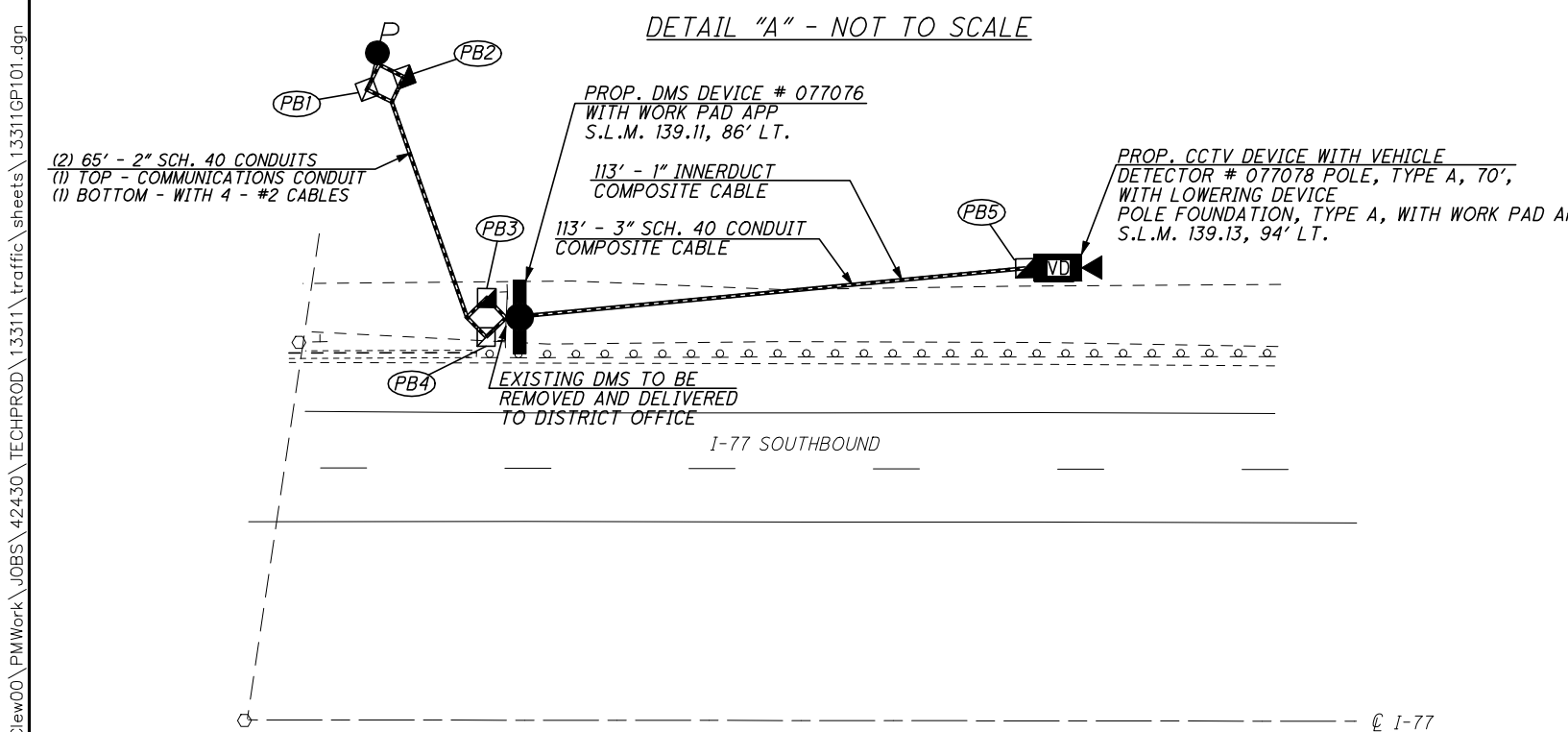
(PB3) - PROP. PULL BOX, 725.08: 18",
S.L.M. 139.11, 86' LT.

(PB4) - PROP. PULL BOX, 725.08: 18",
S.L.M. 139.11, 86' LT.

(PB5) - PROP. PULL BOX, 725.08: 18",
S.L.M. 139.13, 94' LT.



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION
AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE
AS PER PLAN A DETAILS

REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA
WITH VEHICLE DETECTOR DETAILS

REFER TO SHEET 24 FOR TYPICAL DMS DETAILS

REFER TO DMS PEDESTAL SIGN SUPPORT PIER
FOUNDATION DESIGNS FOR DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 137 FOR TYPICAL COMMUNICATIONS
PLANS

REFER TO SHEET 152 FOR TYPICAL CCTV W/VD
- DMS T-1 COMMUNICATIONS DETAILS

REFER TO SHEET 155 FOR TYPICAL CCTV W/VD - DMS
WITH COMPOSITE CABLE COMMUNICATIONS DETAILS

DMS 077076
CCTV 077078

I-77 AT MARTADALE RD. (MP 138.9 TO 139.4)
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

\\clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP101.dgn 09-JAN-2009 8:06AM jrlove

(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 0.73, 102' LT.

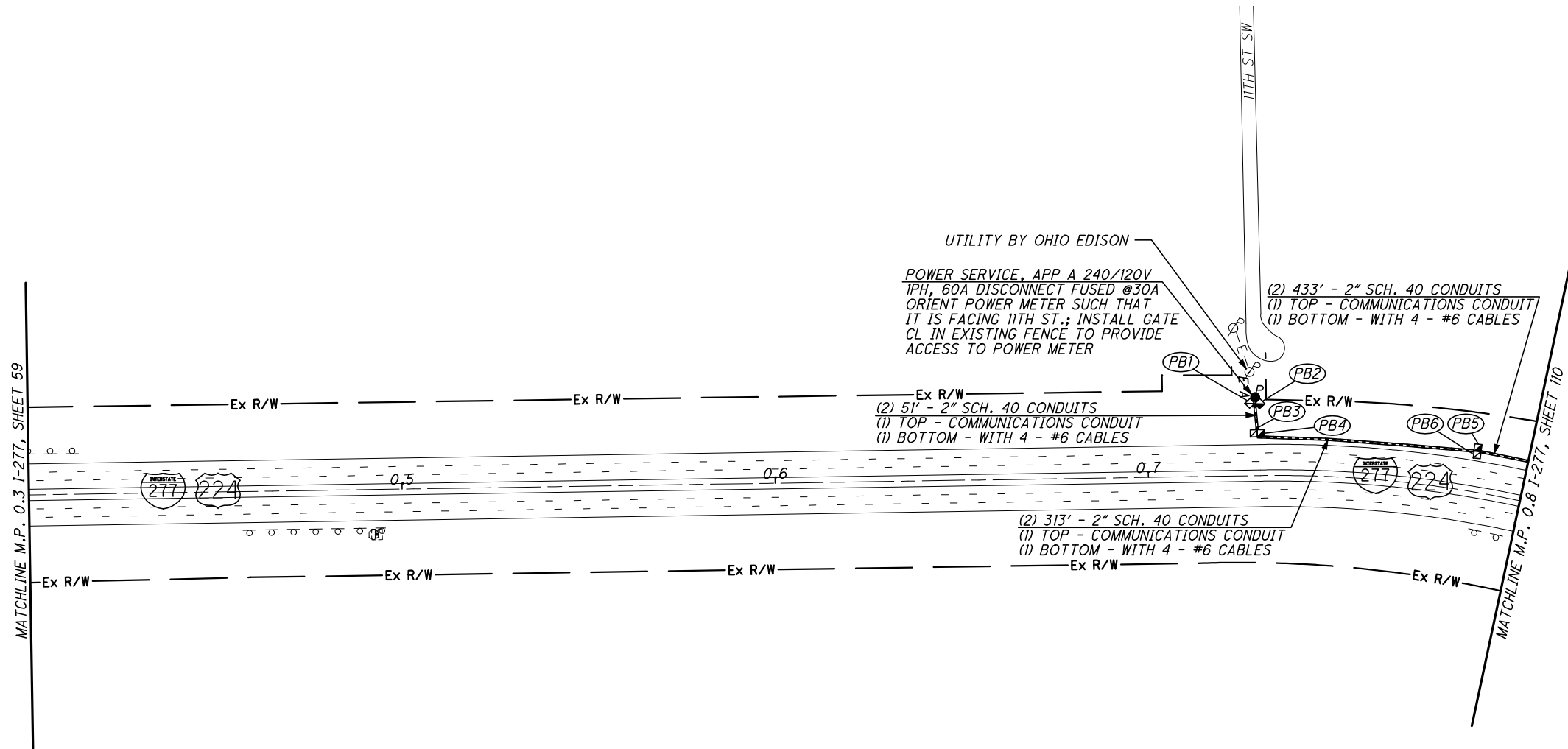
(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 0.73, 102' LT.

(PB3) - PROP. PULL BOX, 725.08: 18",
S.L.M. 0.73, 59' RT.

(PB4) - PROP. PULL BOX, 725.08: 18",
S.L.M. 0.73, 59' LT.

(PB5) - PROP. PULL BOX, 725.08: 18",
S.L.M. 0.79, 58' LT.

(PB6) - PROP. PULL BOX, 725.08: 18",
S.L.M. 0.79, 58' RT.



REFER TO SHEET 12 FOR PULL BOX ORIENTATION
AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE
AS PER PLAN A DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

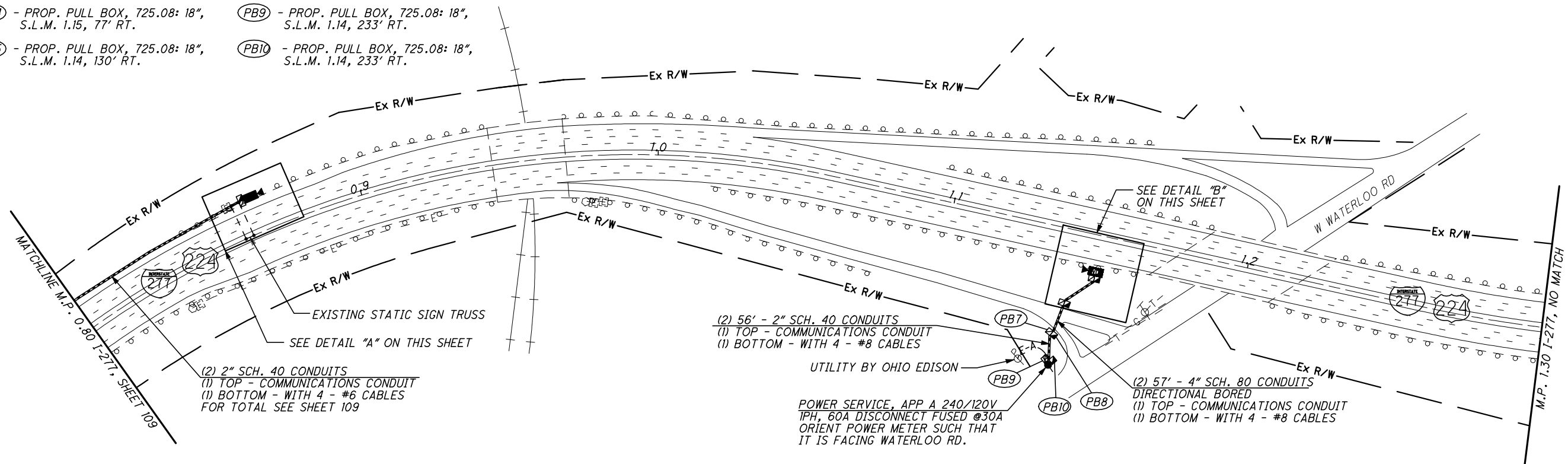
CALCULATED STS CHECKED JDG

0 50 100 200
HORIZONTAL SCALE IN FEET

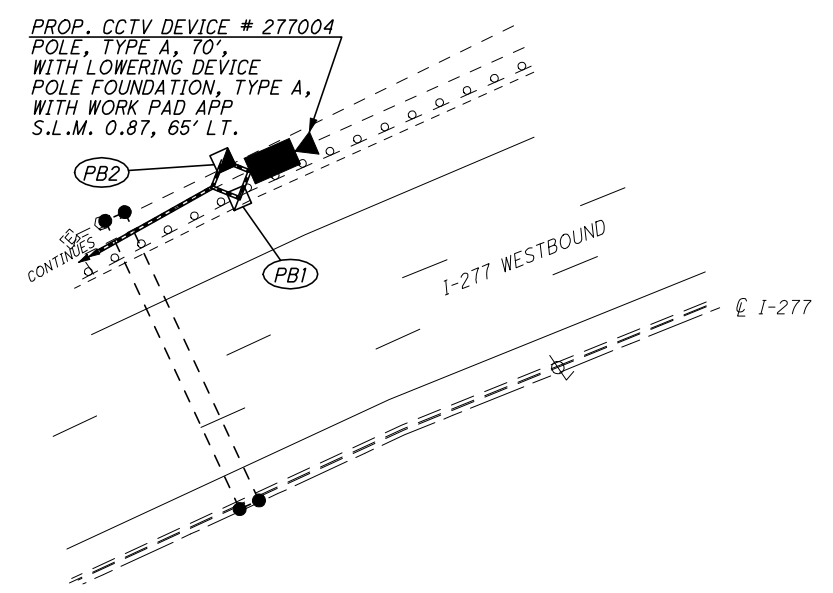
I-277 E OF I-76 (MP 0.3 TO MP 0.8)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

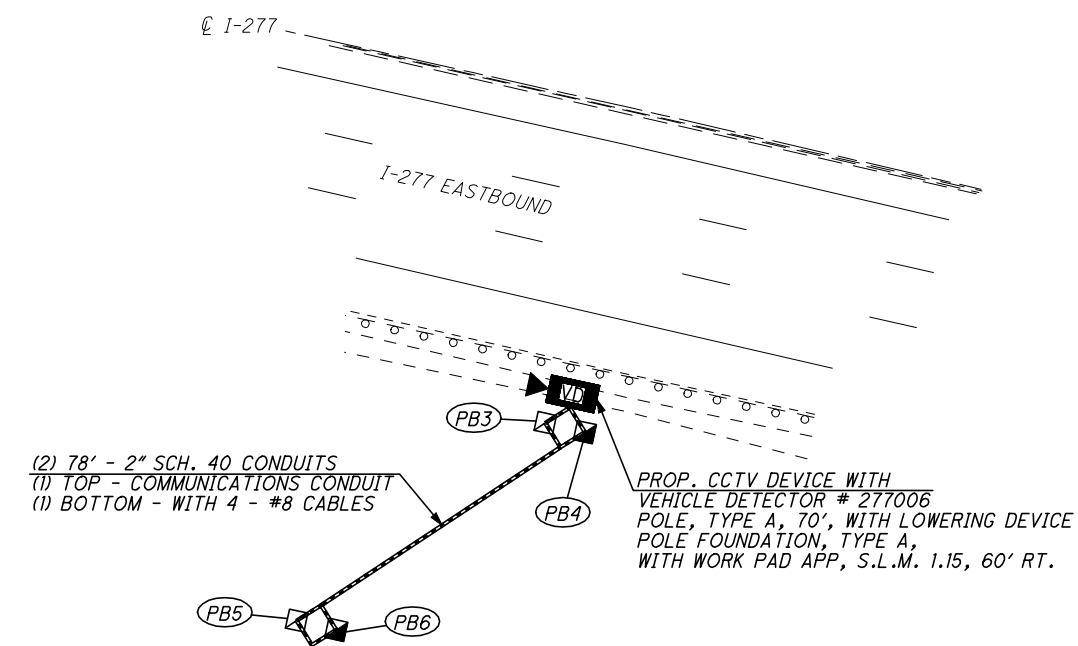
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 0.86, 65' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 0.86, 65' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.15, 77' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.15, 77' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.14, 130' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.14, 130' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.14, 186' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.14, 186' RT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.14, 233' RT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.14, 233' RT.



DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS

REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS

REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 138 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

REFER TO SHEET 146 FOR TYPICAL CCTV W/VD EOC COMMUNICATIONS DETAILS

CCTV 277004
CCTV 277006



CALCULATED STS CHECKED JDC

I-277 AT WATERLOO RD. (MP 0.80 TO MP 1.30)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

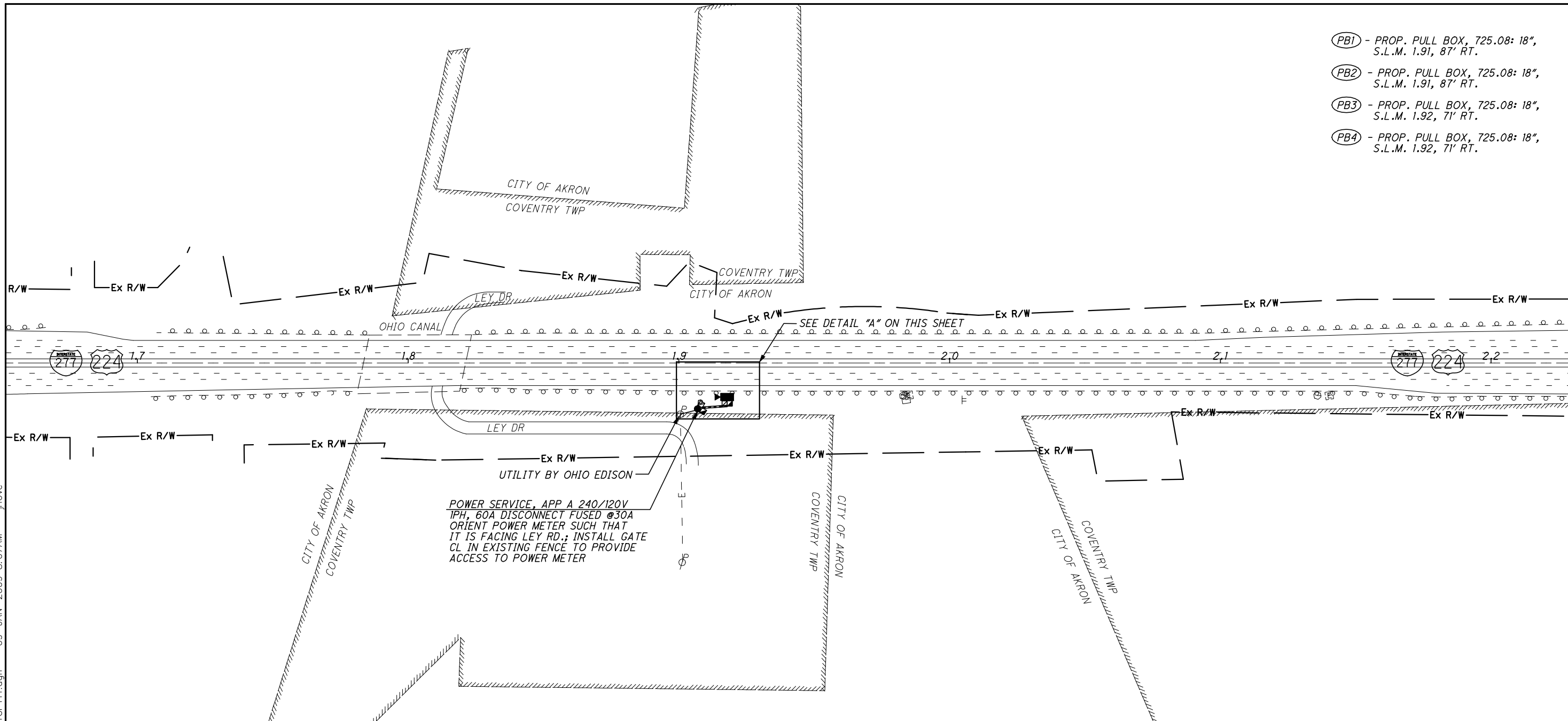
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\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP111.dgn 09-JAN-2009 8:07AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.91, 87' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.91, 87' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.92, 71' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.92, 71' RT.

CALCULATED STS CHECKED JDG

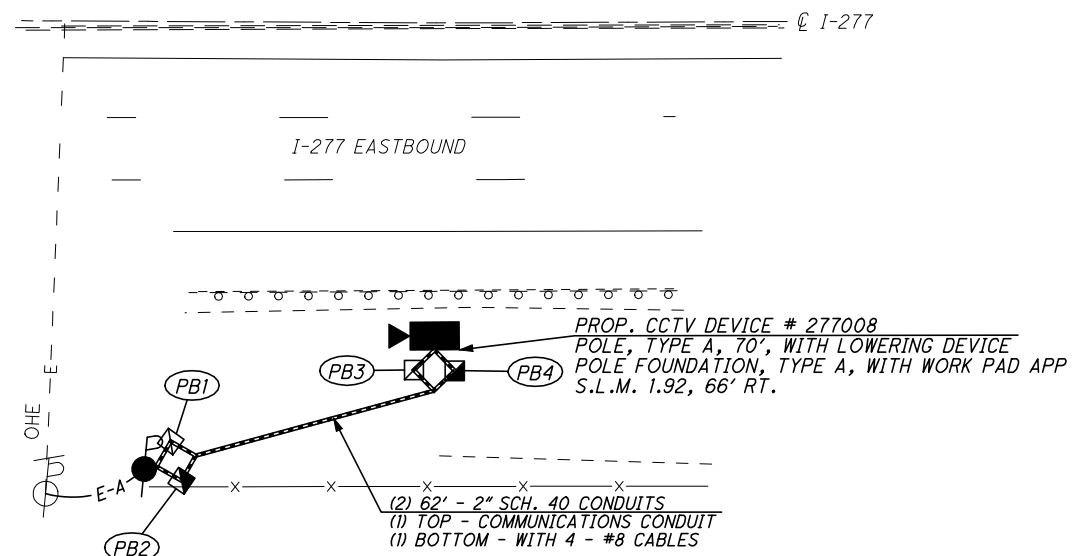
HORIZONTAL SCALE IN FEET



UTILITY BY OHIO EDISON

POWER SERVICE, APP A 240/120V
 1PH, 60A DISCONNECT FUSED @30A
 ORIENT POWER METER SUCH THAT
 IT IS FACING LEY RD.; INSTALL GATE
 CL IN EXISTING FENCE TO PROVIDE
 ACCESS TO POWER METER

DETAIL "A" - NOT TO SCALE



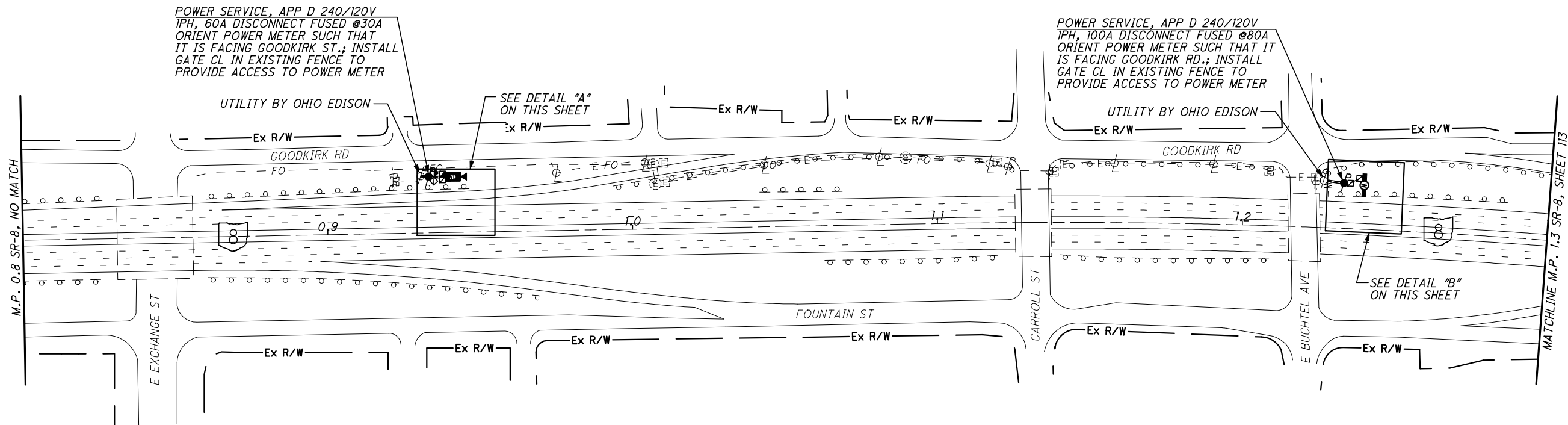
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 138 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

I-277 AT LEY DR. (MP 1.65 TO MP 2.23)
 CITY OF AKRON, SUMMIT COUNTY

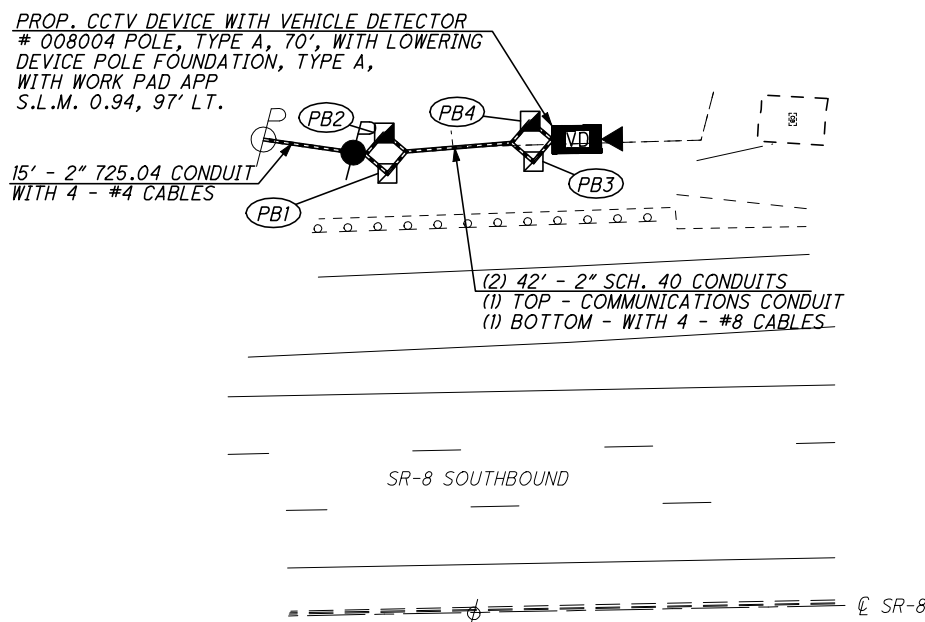
STA-SUM ITS

CCTV 277008

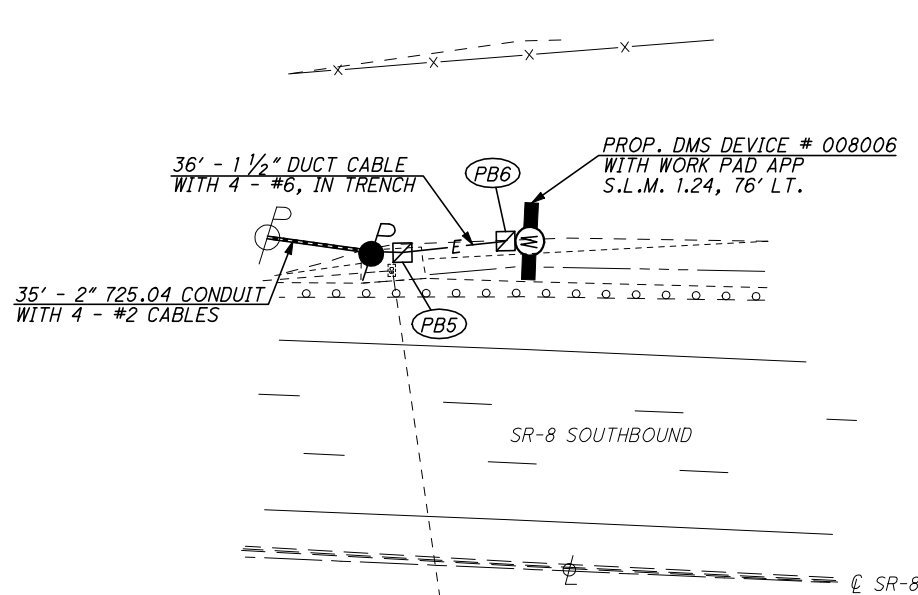
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 0.94, 97' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 0.94, 97' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 0.94, 97' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 0.94, 97' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.23, 79' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.24, 76' LT.



DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 14 FOR TYPICAL POWER SERVICE AS PER PLAN D DETAILS
 REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS
 REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
 REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS
 REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS
 REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

CCTV 008004
 DMS 008006



CALCULATED STS CHECKED JDG

SR-8 AT EXCHANGE ST. (MP 0.8 TO MP 1.3)
 CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

\\clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP116.dgn 09-JAN-2009 8:07AM jrlove

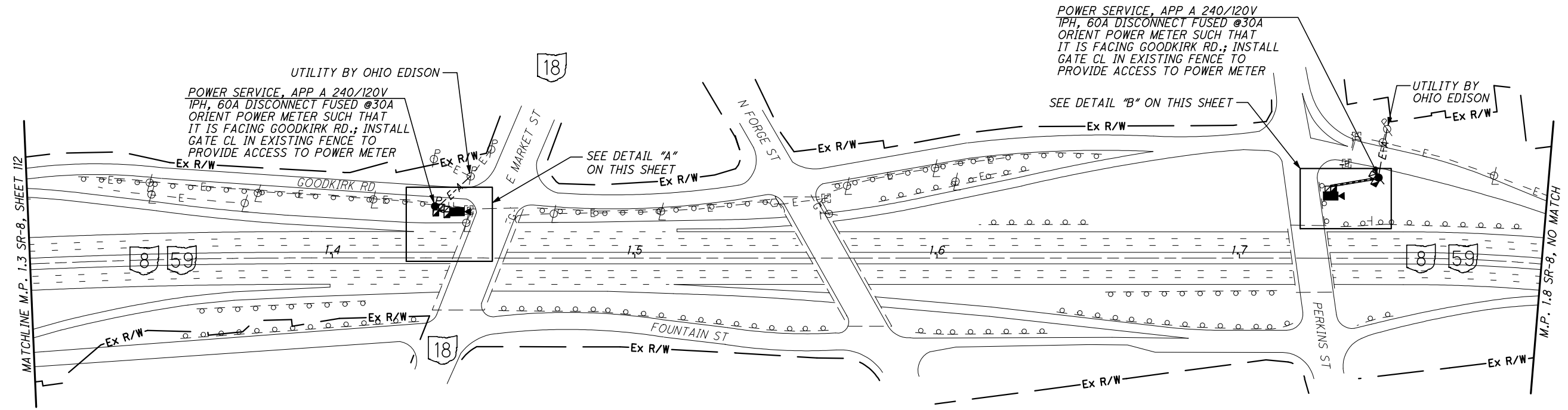
\\C:\ew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP117.dgn 09-JAN-2009 8:07AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.43, 84' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.43, 84' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.44, 81' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.44, 81' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.73, 114' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.73, 114' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.74, 138' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 1.74, 138' LT.

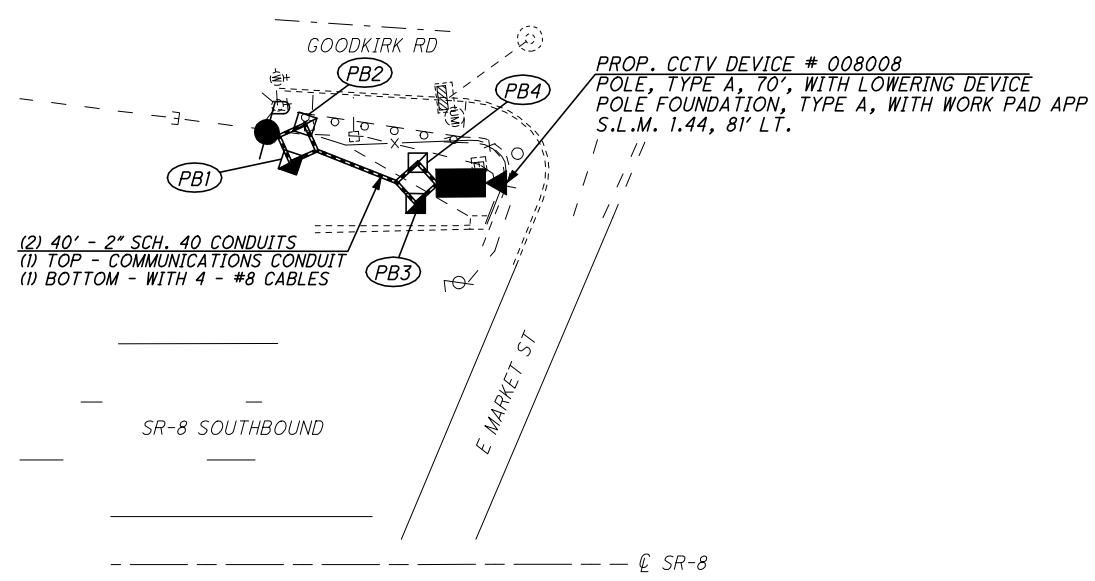
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HORIZONTAL SCALE IN FEET

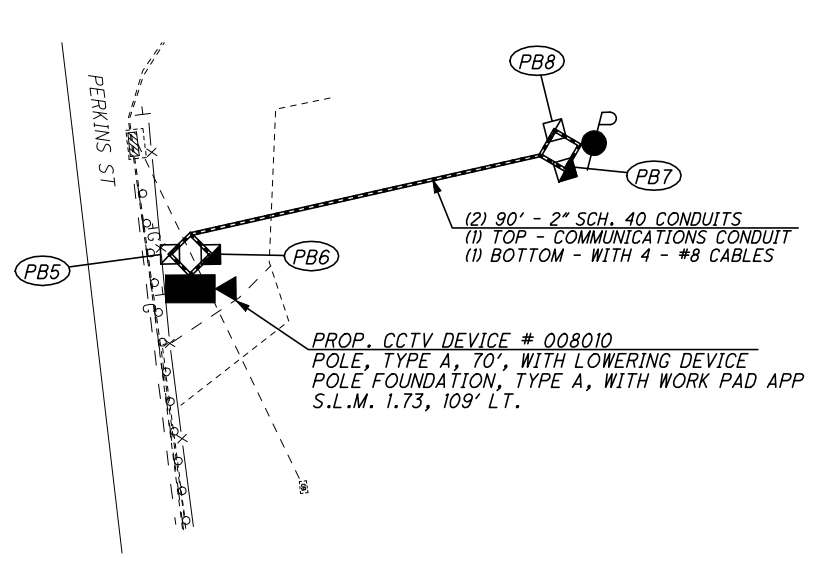
CALCULATED	STS	CHECKED	JDG
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DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS
REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS
REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 008008
CCTV 008010

**SR-8 AT SR-18 (MP 1.3 TO MP 1.8)
CITY OF AKRON, SUMMIT COUNTY**

STA-SUM ITS



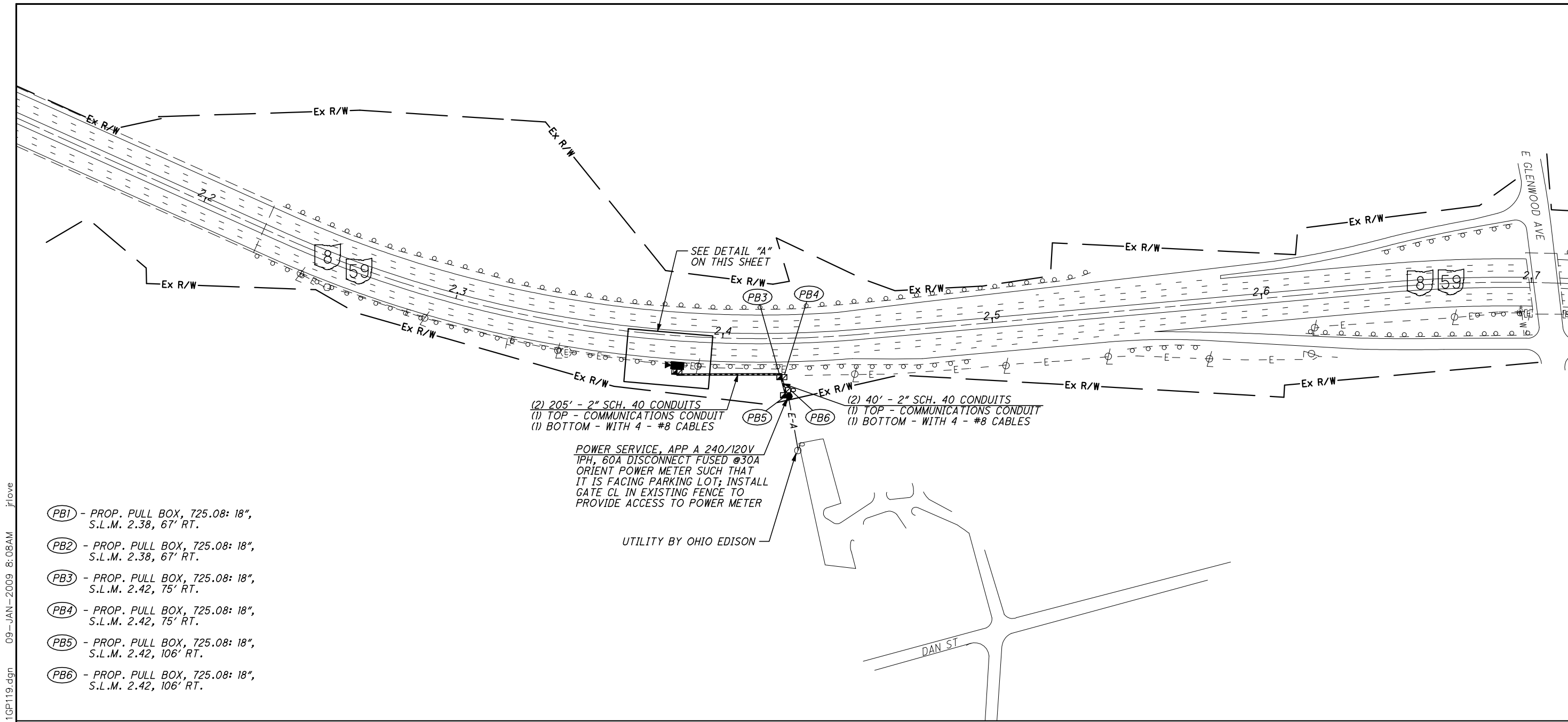
CALCULATED STS CHECKED JDG

SR-8 AT GLENWOOD AVE. (MP 2.12 TO MP 2.72)

CITY OF AKRON, SUMMIT COUNTY

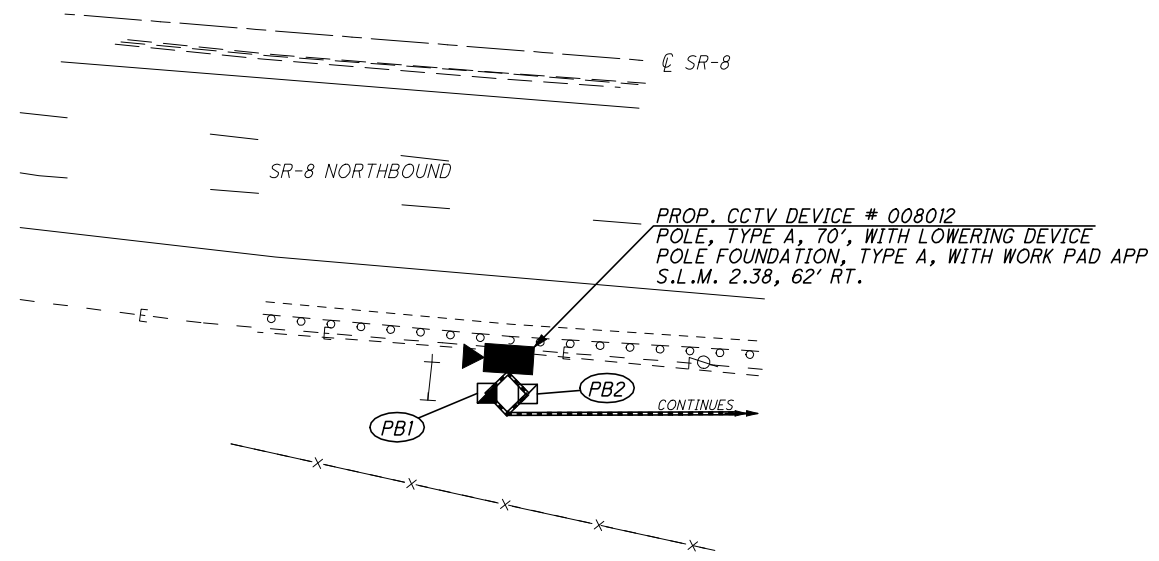
SR-8 AT GLENWOOD AVE. (MP 2.12 TO MP 2.72)

STA-SUM ITS



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 2.38, 67' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 2.38, 67' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 2.42, 75' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 2.42, 75' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 2.42, 106' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 2.42, 106' RT.

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 140 TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 008012

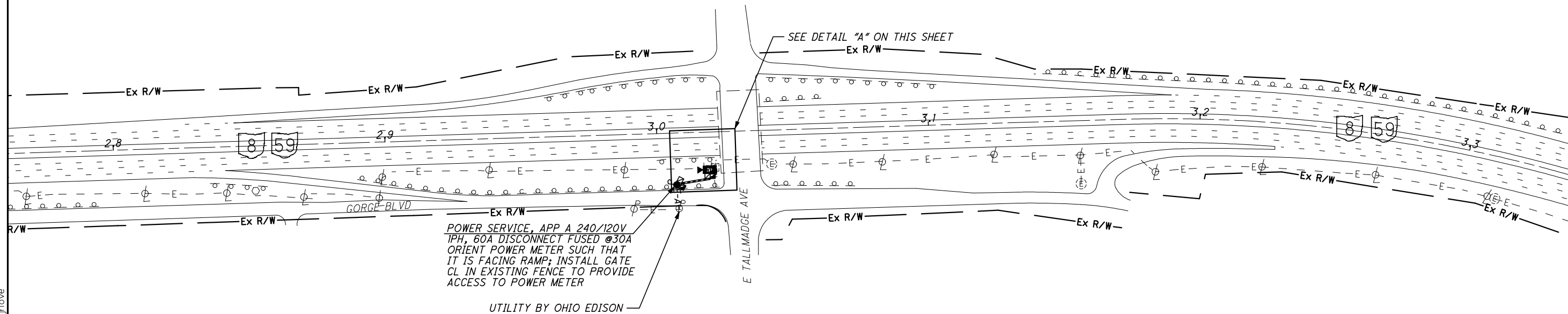
\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP119.dgn 09-JAN-2009 8:08AM jrlove

(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 3.01, 98' RT.

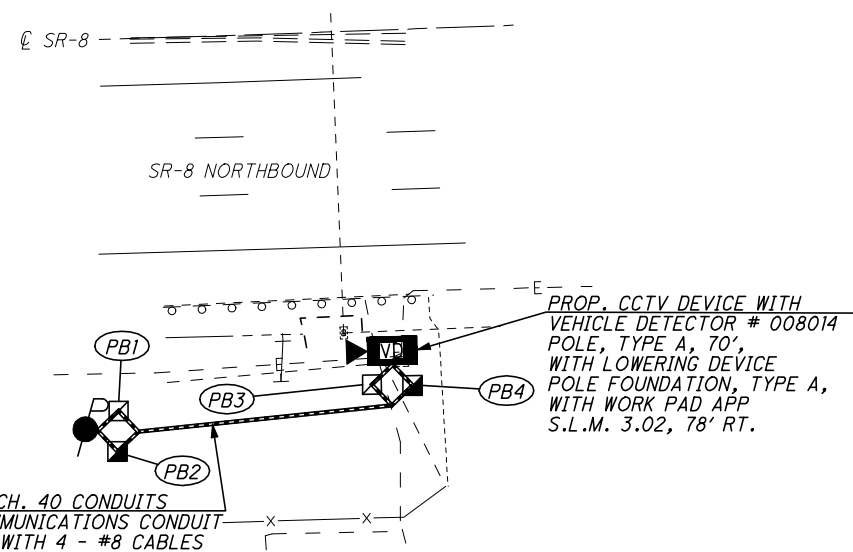
(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 3.01, 98' RT.

(PB3) - PROP. PULL BOX, 725.08: 18",
S.L.M. 3.02, 83' RT.

(PB4) - PROP. PULL BOX, 725.08: 18",
S.L.M. 3.02, 83' RT.



DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS

REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 144 FOR TYPICAL CCTV W/VD T-1 COMMUNICATIONS DETAILS

CCTV 008014



CALCULATED STS CHECKED JDC

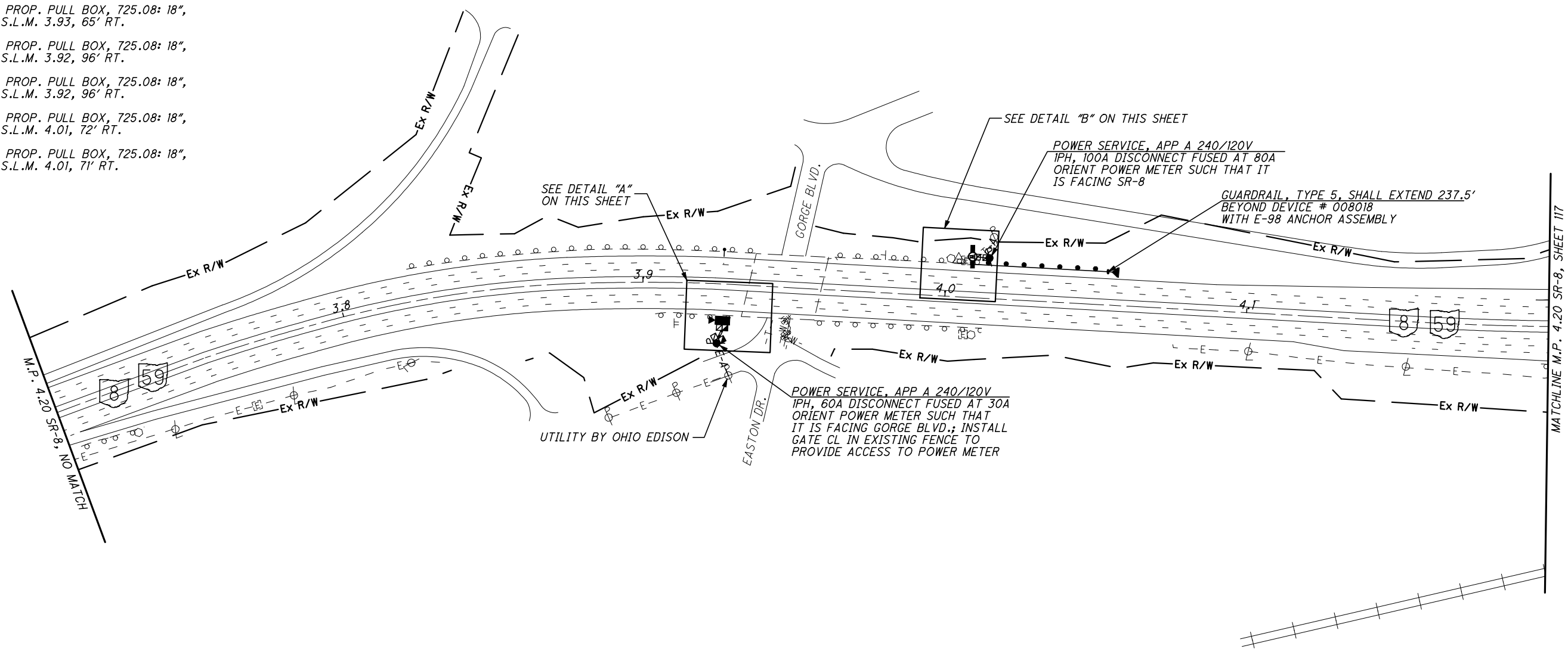
SR-8 AT TALLMADGE AVE. (MP 2.8 TO MP 3.3)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

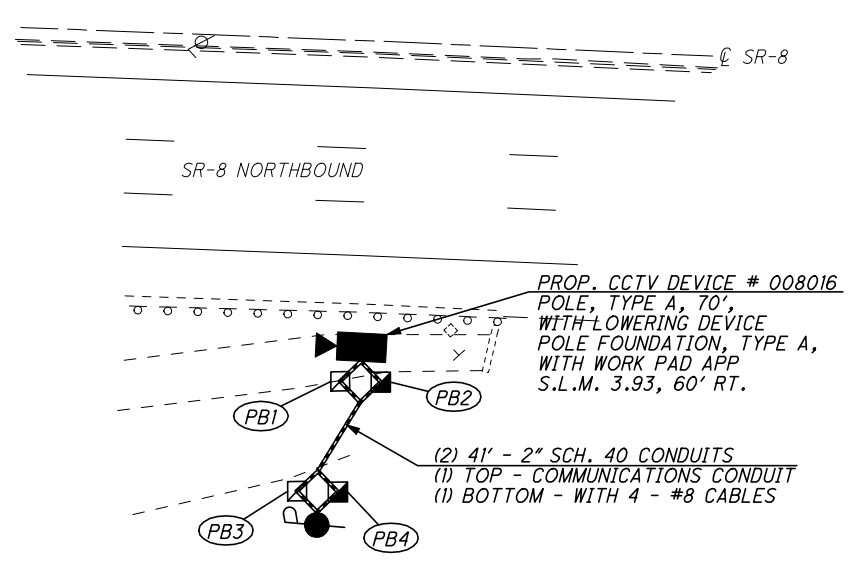
115
154

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP120.dgn 09-JAN-2009 8:08AM jrlove

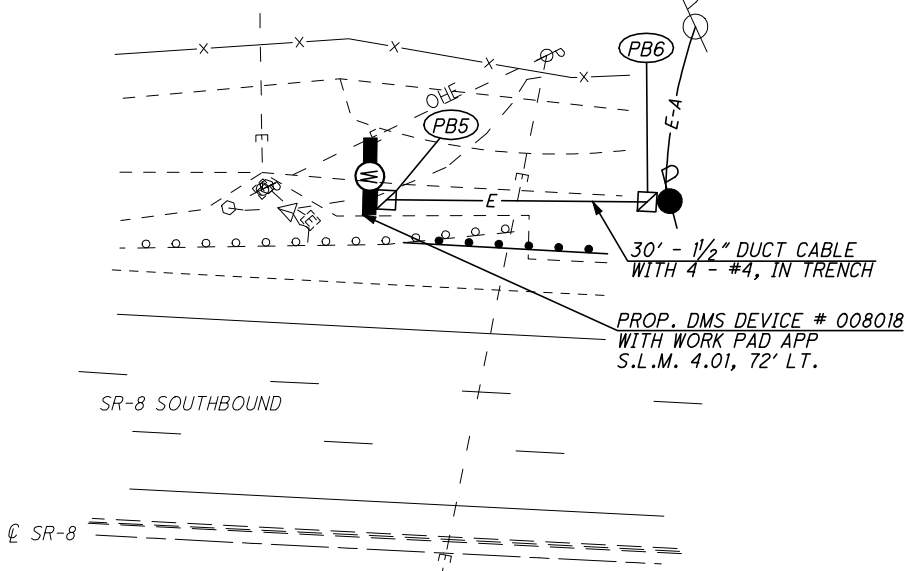
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 3.93, 65' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 3.93, 65' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 3.92, 96' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.01, 72' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.01, 72' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.01, 71' RT.



DETAIL "A" - NOT TO SCALE



DETAIL "B" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

CCTV 008016
DMS 008018



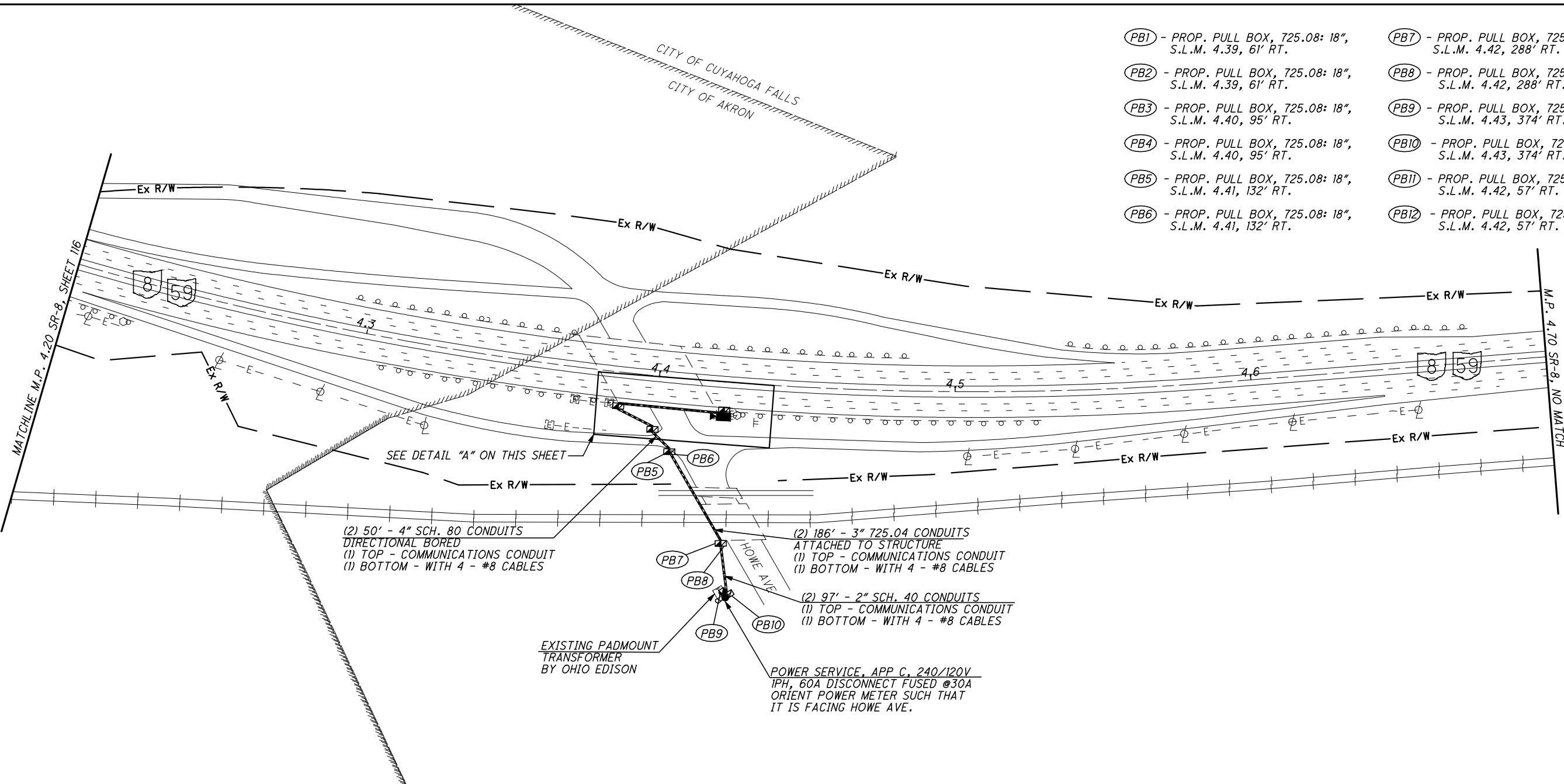
CALCULATED STS CHECKED JDG

SR-8 AT EASTON DR. (MP 3.64 TO MP 4.20)
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

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\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP123.dgn 09-JAN-2009 8:09AM jrlove



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.39, 61' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.39, 61' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.40, 95' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.40, 95' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.41, 132' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.41, 132' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.42, 288' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.42, 288' RT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.43, 374' RT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.43, 374' RT.
- (PB11) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.42, 57' RT.
- (PB12) - PROP. PULL BOX, 725.08: 18", S.L.M. 4.42, 57' RT.

CITY OF CUYAHOGA FALLS
CITY OF AKRON

0 50 100 200
HORIZONTAL SCALE IN FEET

CALCULATED STS CHECKED JDC

(2) 50' - 4" SCH. 80 CONDUITS
DIRECTIONAL BORED
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

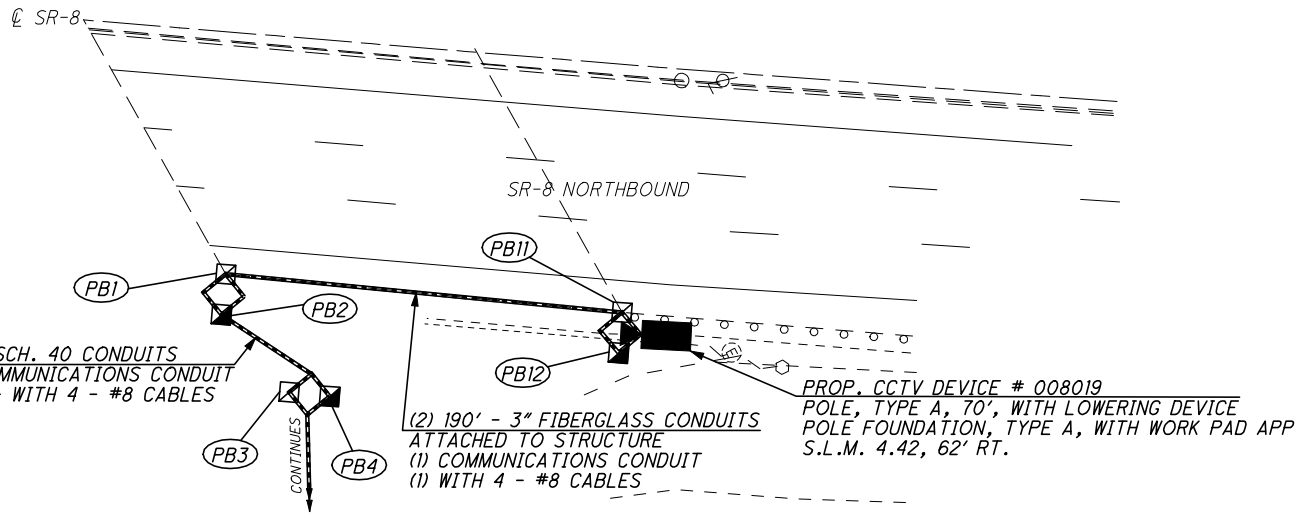
(2) 186' - 3" 725.04 CONDUITS
ATTACHED TO STRUCTURE
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

(2) 97' - 2" SCH. 40 CONDUITS
(1) TOP - COMMUNICATIONS CONDUIT
(1) BOTTOM - WITH 4 - #8 CABLES

EXISTING PADMOUNT TRANSFORMER BY OHIO EDISON

POWER SERVICE, APP C, 240/120V IPH, 60A DISCONNECT FUSED @30A ORIENT POWER METER SUCH THAT IT IS FACING HOWE AVE.

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 10 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN C DETAILS

REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 129 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER HOWE AVE.

REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS

REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 008019

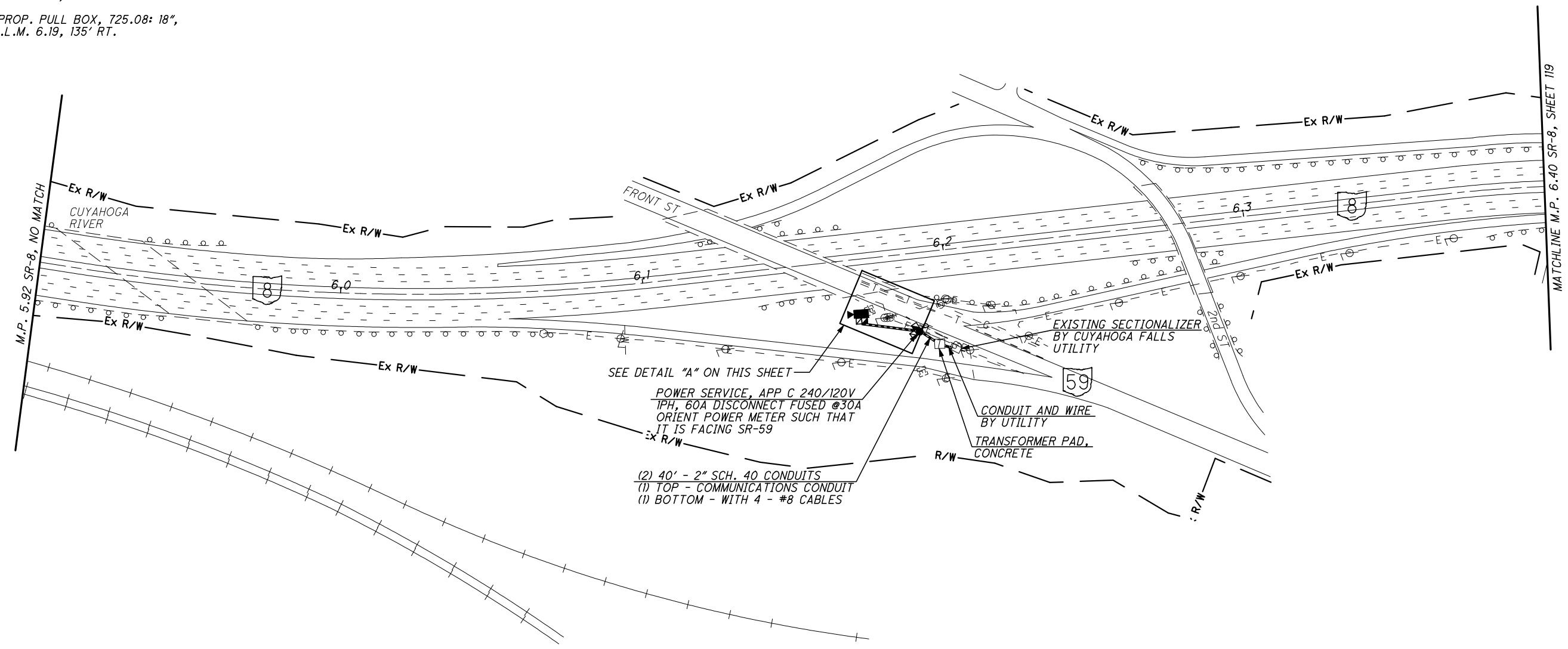
SR-8 AT HOWE AVE. (MP 4.20 TO MP 4.72)
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

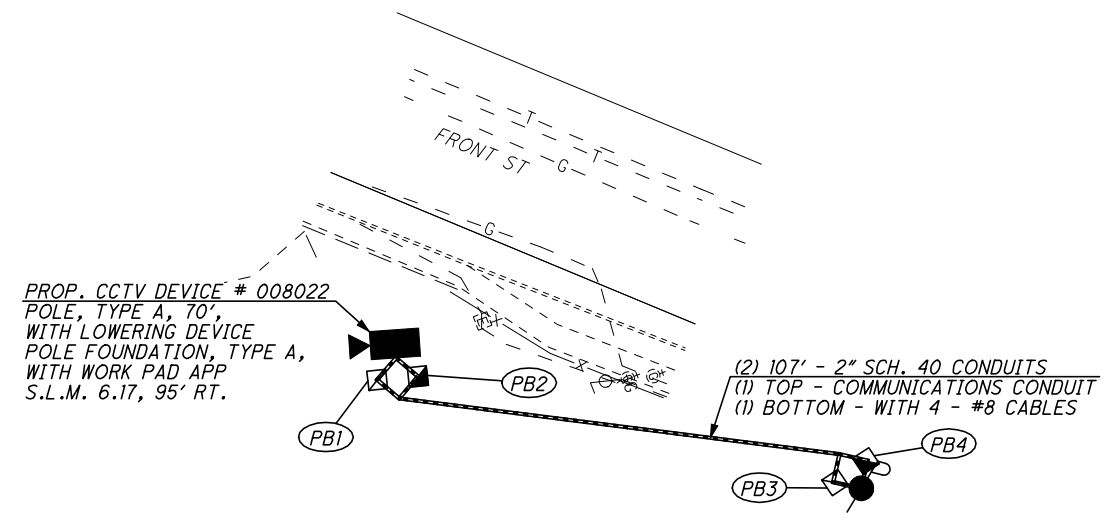
- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.17, 100' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.17, 100' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.19, 135' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.19, 135' RT.

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN C DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 008022

SR-8 AT FRONT ST. (MP 5.92 TO MP 6.40)
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

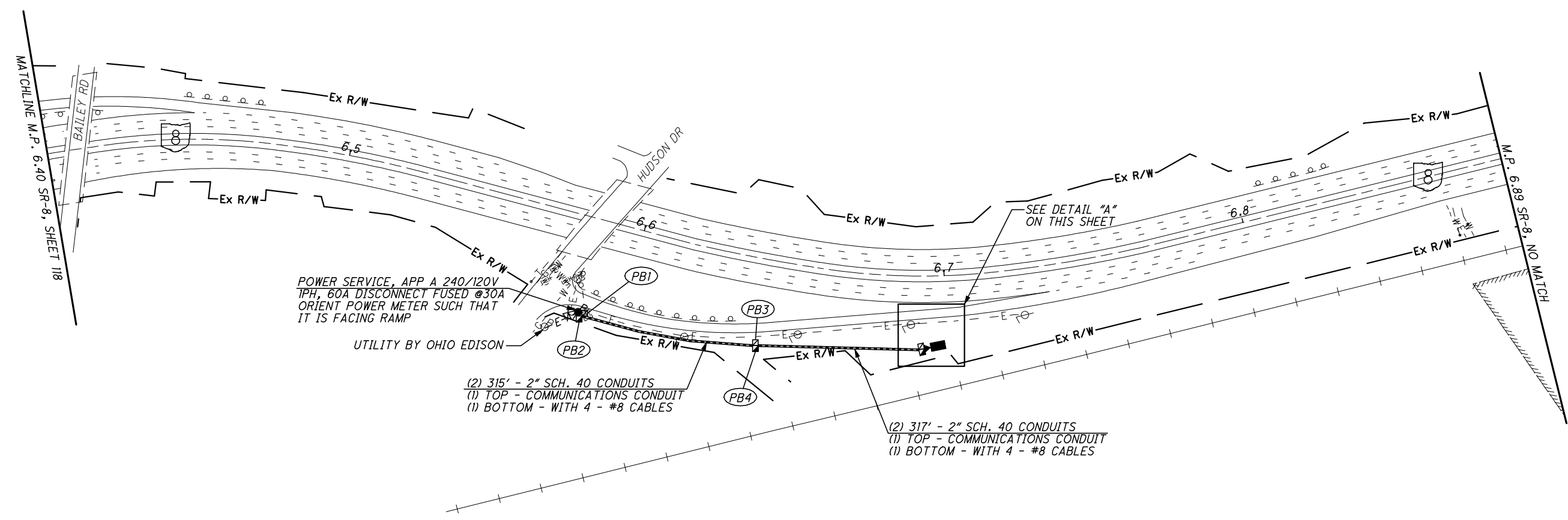
STA-SUM ITS

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CALCULATED STS CHECKED JDG

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.59, 171' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.59, 171' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.64, 151' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.64, 151' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.69, 122' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 6.69, 122' RT.



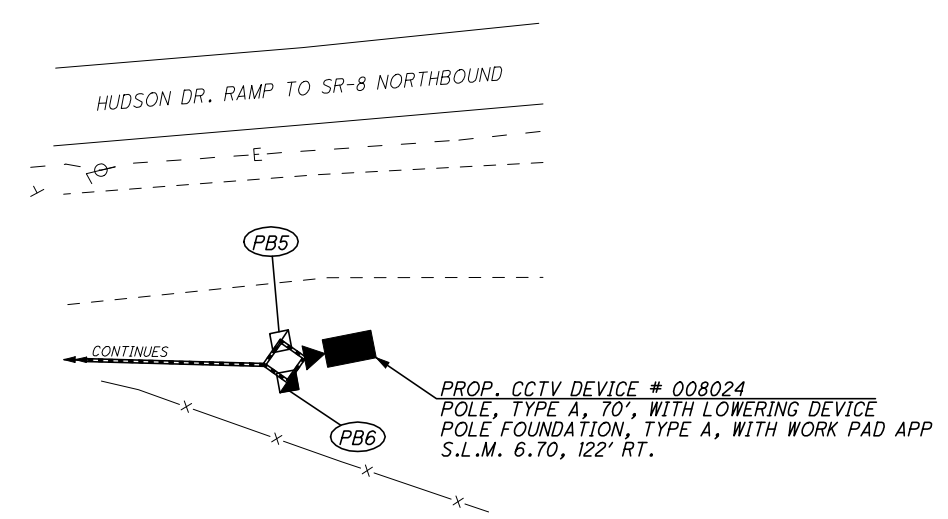
POWER SERVICE, APP A 240/120V 1PH, 60A DISCONNECT FUSED @30A ORIENT POWER METER SUCH THAT IT IS FACING RAMP

UTILITY BY OHIO EDISON

(2) 315' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

(2) 317' - 2" SCH. 40 CONDUITS
 (1) TOP - COMMUNICATIONS CONDUIT
 (1) BOTTOM - WITH 4 - #8 CABLES

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 140 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

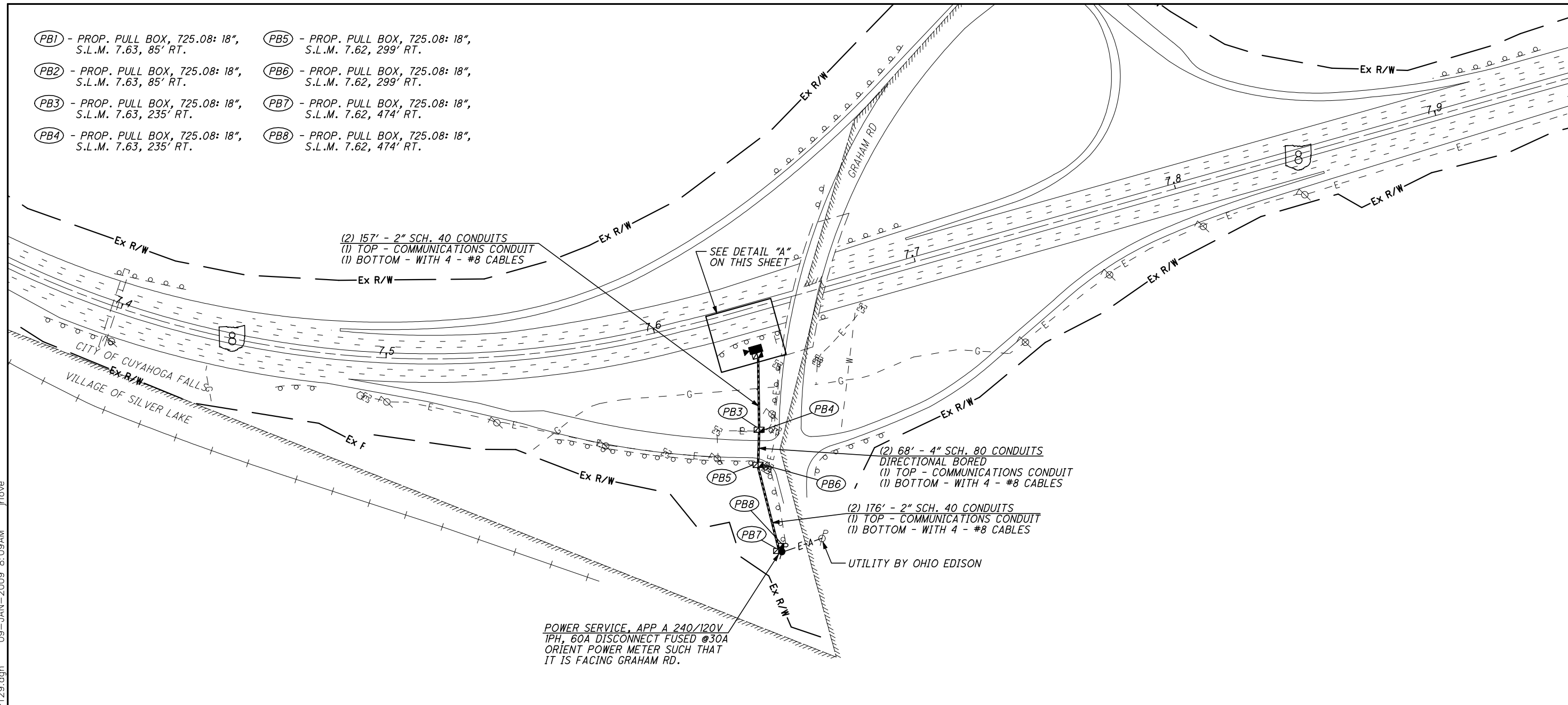
CCTV 008024

SR-8 AT HUDSON DR. (MP 6.40 TO MP 6.89)
 CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

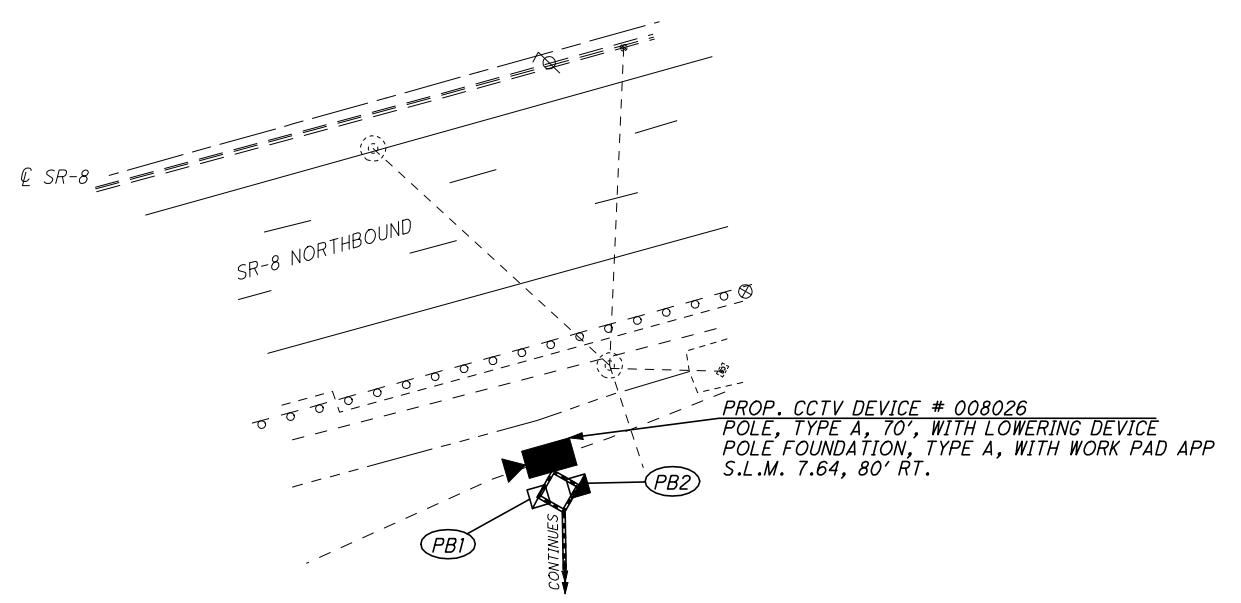
STA-SUM ITS

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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.63, 85' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.63, 85' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.63, 235' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.63, 235' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.62, 299' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.62, 299' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.62, 474' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 7.62, 474' RT.



DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 141 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 008026

CALCULATED STS CHECKED JDG

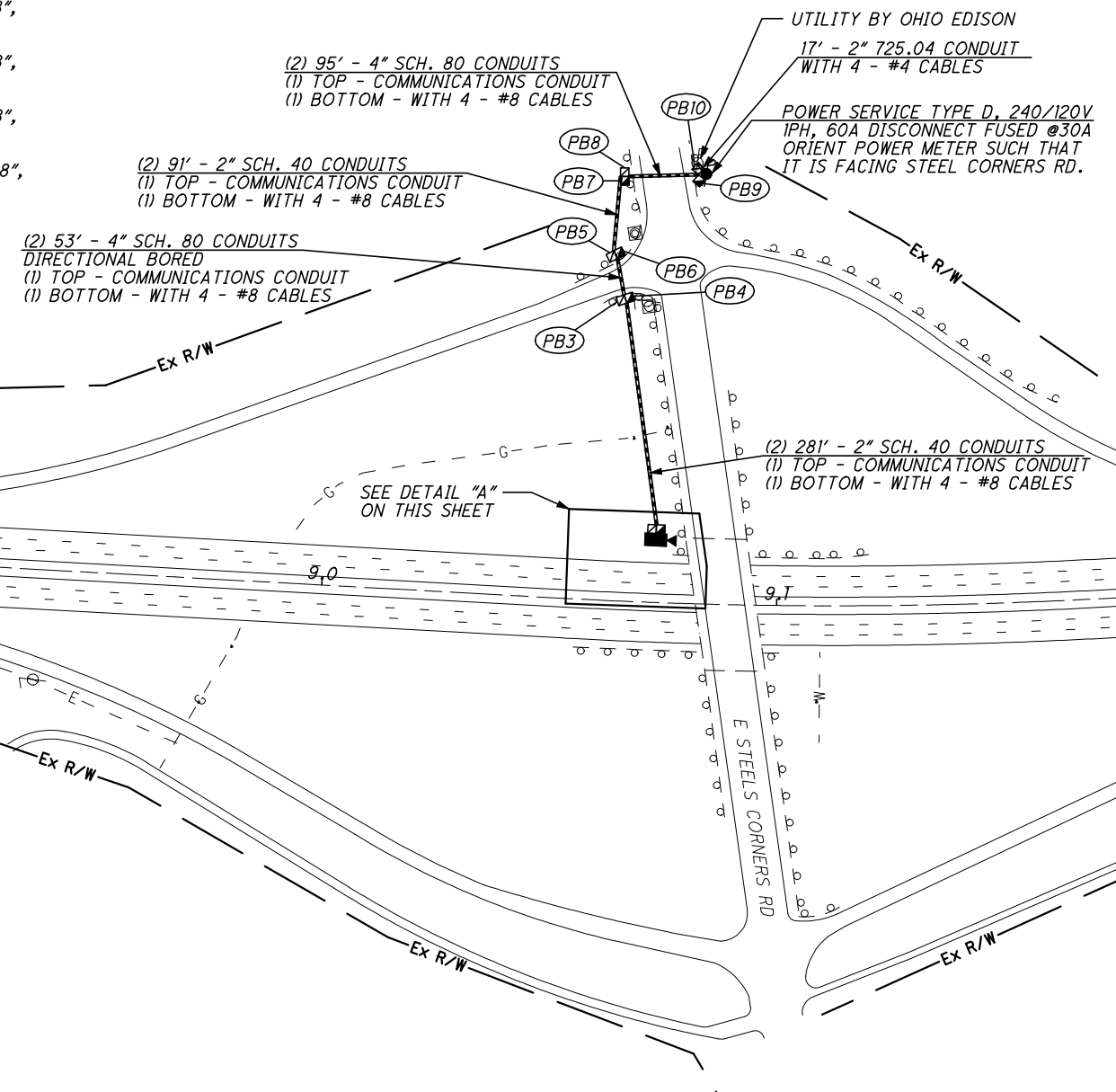
0 50 100 200
HORIZONTAL SCALE IN FEET


SR-8 AT GRAHAM RD. (MP 7.35 TO MP 7.95)
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP129.dgn 09-JAN-2009 8:09AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.07, 78' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.07, 78' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.06, 351' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.06, 351' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.06, 401' LT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.06, 401' LT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.06, 492' LT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.06, 492' LT.
- (PB9) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.08, 499' LT.
- (PB10) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.08, 499' LT.



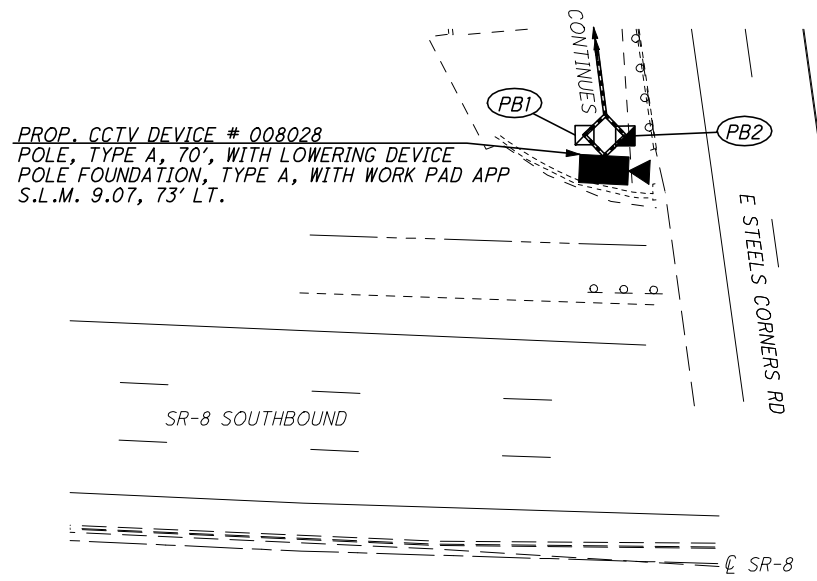




 HORIZONTAL SCALE IN FEET

CALCULATED STS CHECKED JDC
SR-8 AT STEELS CORNER RD. (MP 8.8 TO MP 9.3)
CITY OF STOW, CUMMIT COUNTY

DETAIL "A" - NOT TO SCALE



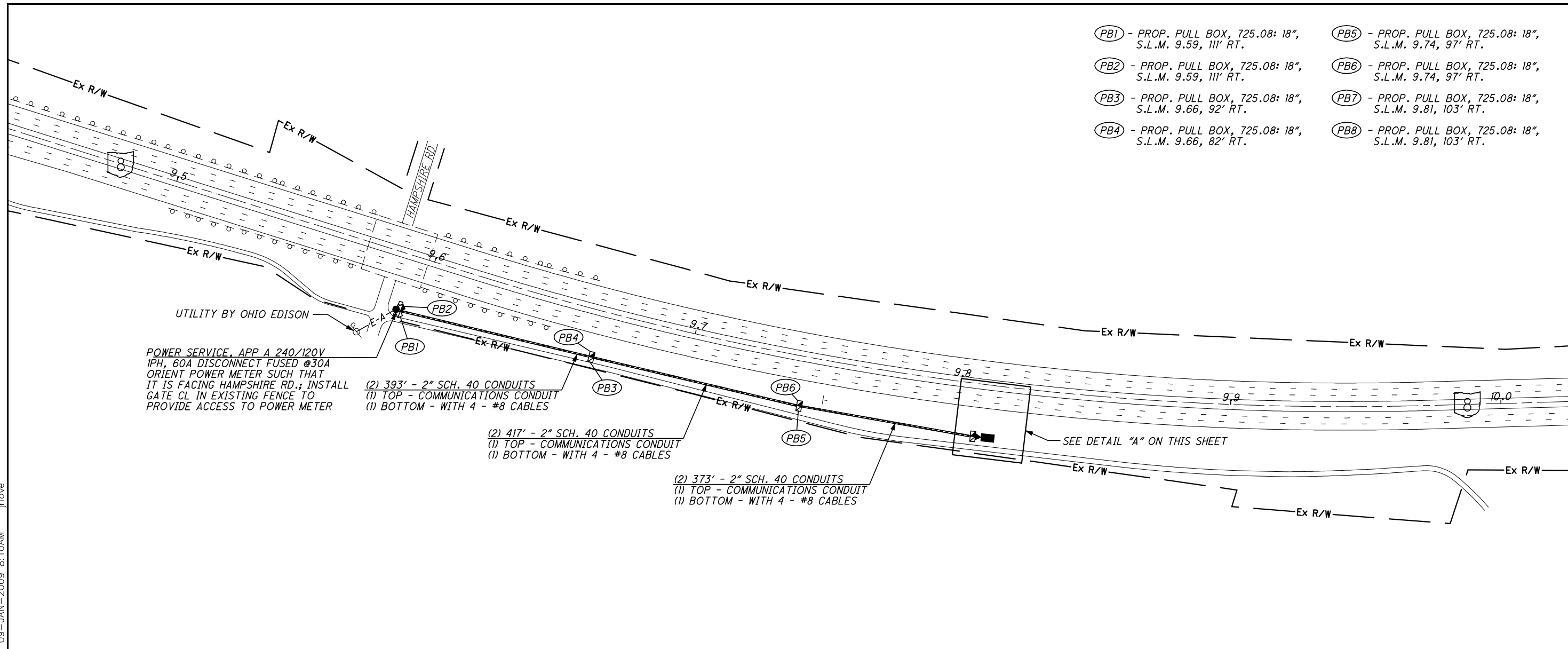
- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 14 FOR TYPICAL POWER SERVICE AS PER PLAN D DETAILS
- REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 141 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 145 FOR TYPICAL CCTV EOC COMMUNICATIONS DETAILS

CCTV 008028

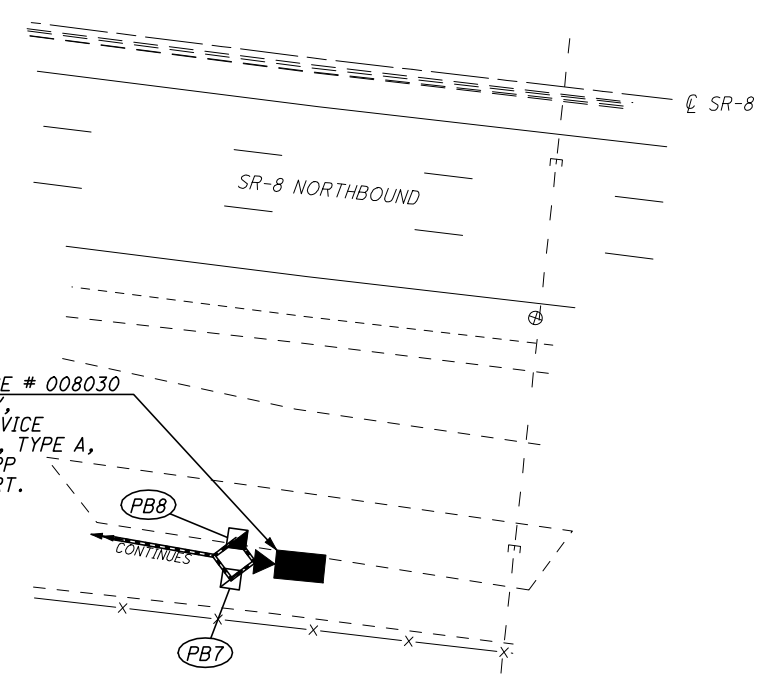
STA-SUM ITS

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP132.dgn 09-JAN-2009 8:10AM jrlove

- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.59, 111' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.59, 111' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.66, 92' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.66, 82' RT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.74, 97' RT.
- (PB6) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.74, 97' RT.
- (PB7) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.81, 103' RT.
- (PB8) - PROP. PULL BOX, 725.08: 18", S.L.M. 9.81, 103' RT.



DETAIL "A" - NOT TO SCALE



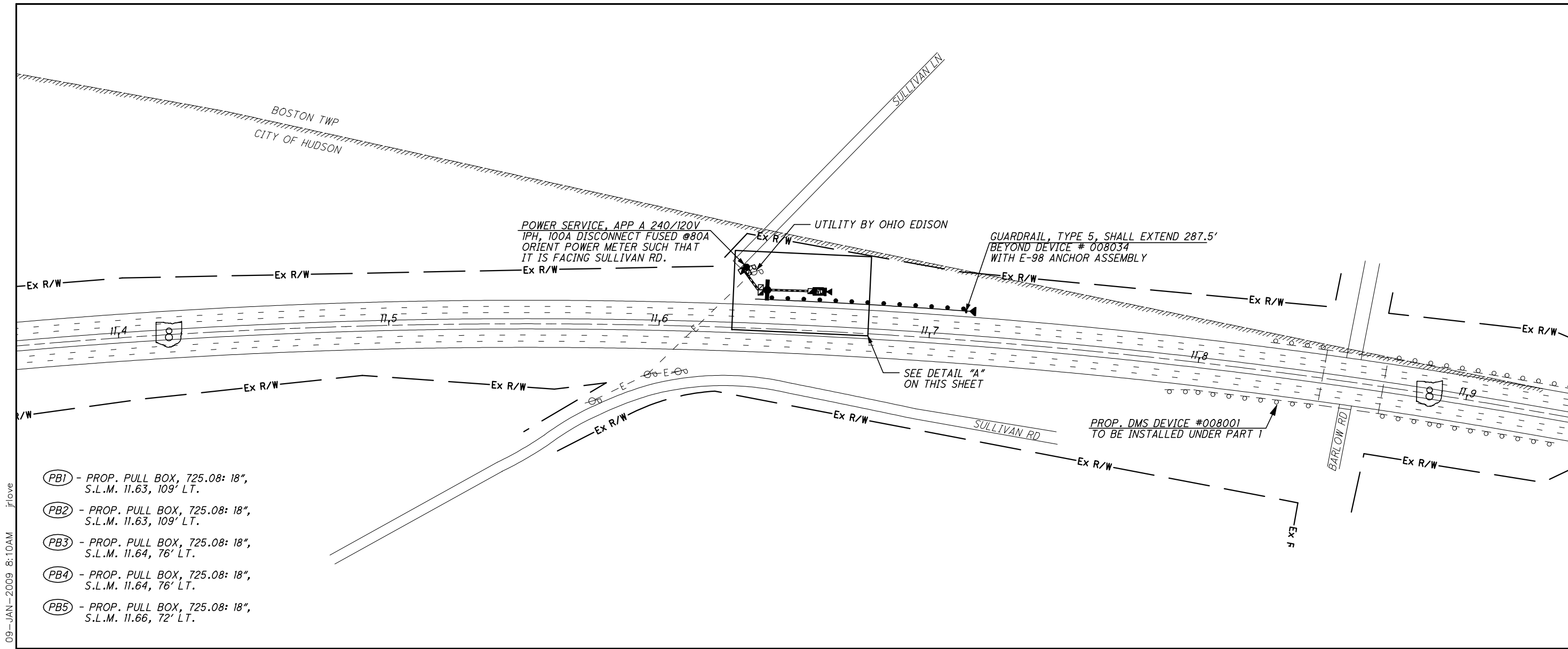
REFER TO SHEET 11 FOR CONDUIT DETAILS
 REFER TO SHEET 12 FOR PULL BOX ORIENTATION
 AND COMMUNICATION POLE DETAILS
 REFER TO SHEET 13 FOR TYPICAL POWER SERVICE
 AS PER PLAN A DETAILS
 REFER TO SHEET 20 FOR TYPICAL CCTV CAMERA DETAILS
 REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
 REFER TO SHEET 141 FOR TYPICAL COMMUNICATIONS
 PLANS
 REFER TO SHEET 145 FOR TYPICAL CCTV EOC
 COMMUNICATIONS DETAILS



CALCULATED STS CHECKED JDG

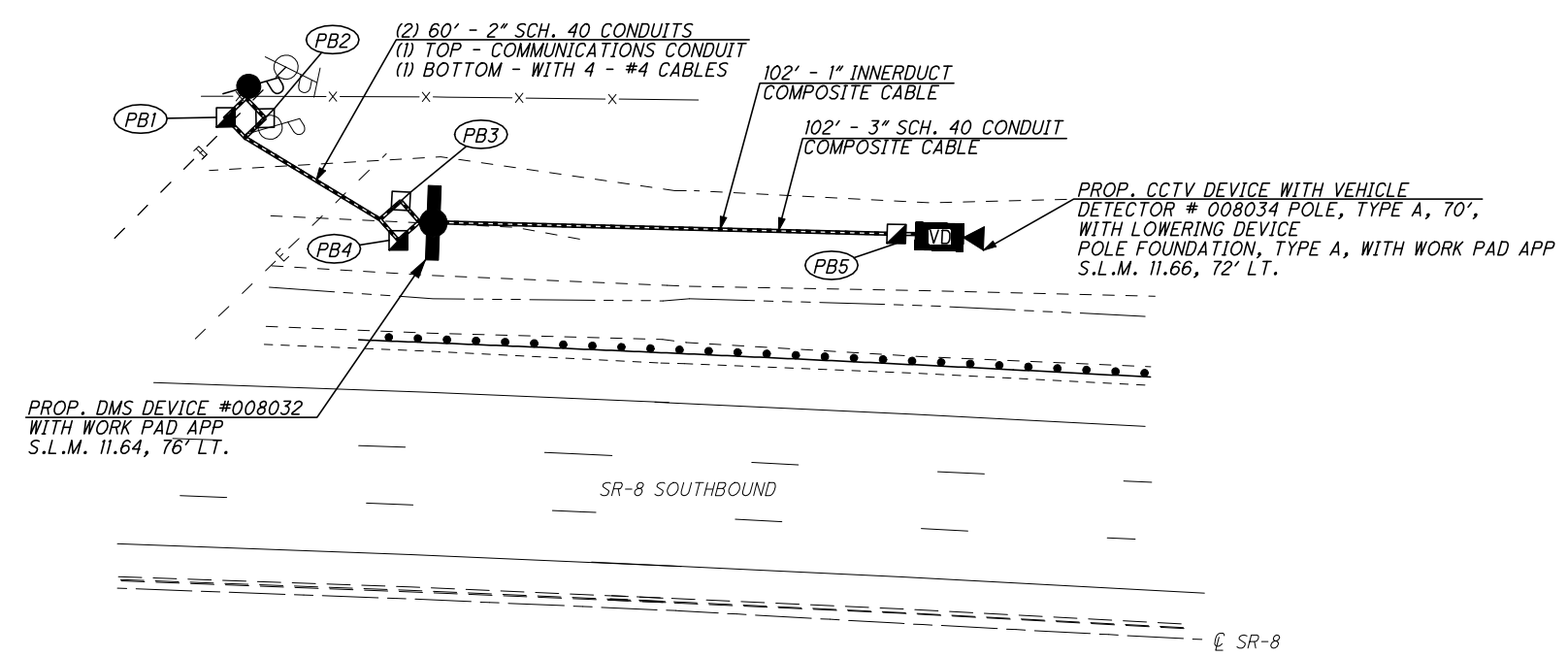
SR-8 AT BARLOW RD. (MP 11.36 TO MP 11.94)
CITY OF HUDSON, SUMMIT COUNTY

STA-SUM ITS



- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 11.63, 109' LT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 11.63, 109' LT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 11.64, 76' LT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 11.64, 76' LT.
- (PB5) - PROP. PULL BOX, 725.08: 18", S.L.M. 11.66, 72' LT.

DETAIL "A" - NOT TO SCALE



REFER TO SHEET 11 FOR CONDUIT DETAILS

REFER TO SHEETS 12-12A FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS

REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS

REFER TO SHEET 21 FOR TYPICAL CCTV CAMERA WITH VEHICLE DETECTOR DETAILS

REFER TO SHEET 24 FOR TYPICAL DMS DETAILS

REFER TO DMS PEDESTAL SIGN SUPPORT PIER FOUNDATION DESIGNS FOR DETAILS

REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES

REFER TO SHEET 141 FOR TYPICAL COMMUNICATIONS PLANS

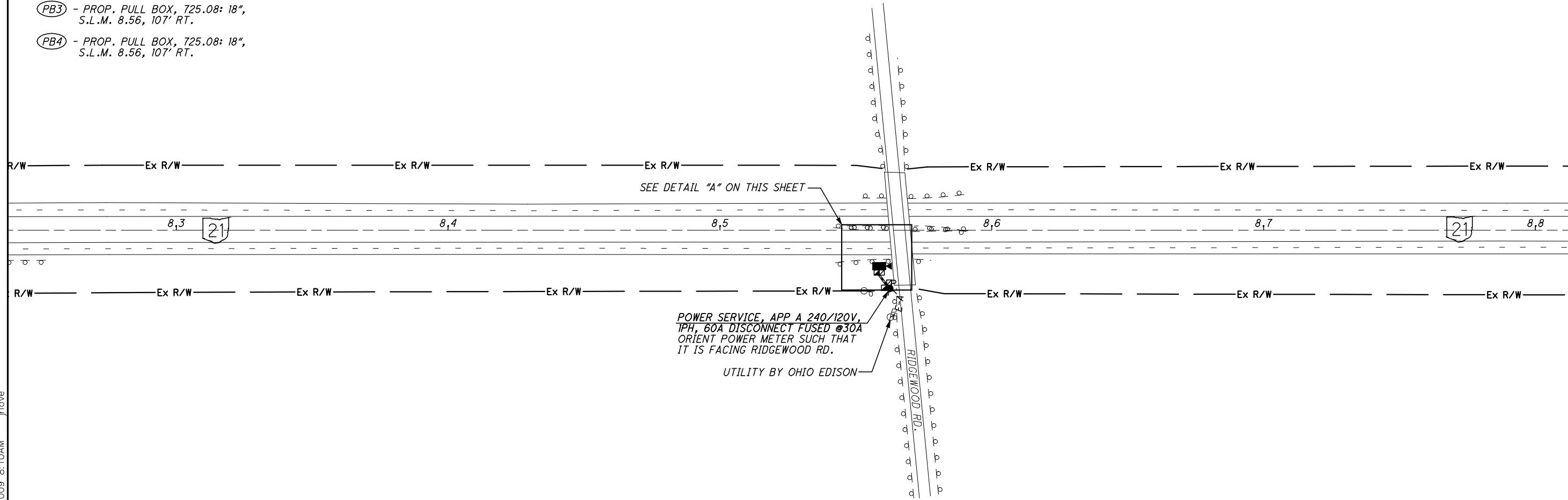
REFER TO SHEET 152 FOR TYPICAL CCTV W/VD - DMS T-1 COMMUNICATIONS DETAILS

REFER TO SHEET 155 FOR TYPICAL CCTV W/VD - DMS WITH COMPOSITE CABLE COMMUNICATIONS DETAILS

DMS 008032
CCTV 008034

09-JAN-2009 8:10AM jrlove
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- (PB1) - PROP. PULL BOX, 725.08: 18", S.L.M. 8.56, 75' RT.
- (PB2) - PROP. PULL BOX, 725.08: 18", S.L.M. 8.56, 75' RT.
- (PB3) - PROP. PULL BOX, 725.08: 18", S.L.M. 8.56, 107' RT.
- (PB4) - PROP. PULL BOX, 725.08: 18", S.L.M. 8.56, 107' RT.



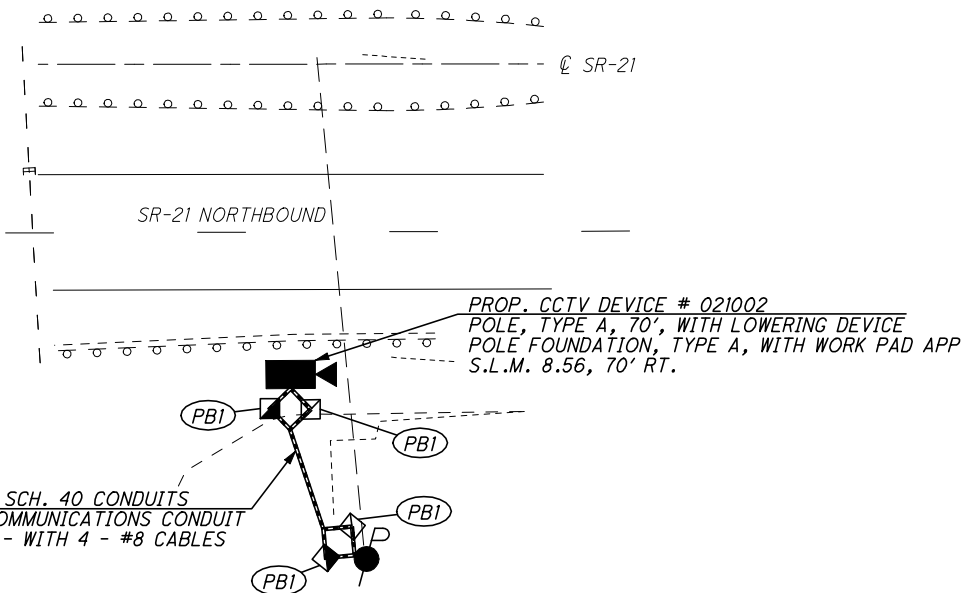
CALCULATED STS CHECKED JDG

0 50 100 200
HORIZONTAL SCALE IN FEET

SR-21 AT RIDGEWOOD RD. (MP 8.16 TO MP 8.82)
COPLEY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS
124
154

DETAIL "A" - NOT TO SCALE



- REFER TO SHEET 11 FOR CONDUIT DETAILS
- REFER TO SHEET 12 FOR PULL BOX ORIENTATION AND COMMUNICATION POLE DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 22 FOR TYPICAL CCTV CAMERA WITH SMART JACK DETAILS
- REFER TO SHEET 41 FOR ELECTRICAL SLACK NOTES
- REFER TO SHEET 142 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 143 FOR TYPICAL CCTV T-1 COMMUNICATIONS DETAILS

CCTV 021002

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP138.dgn 09-JAN-2009 8:10AM jrlove

(PB1) - PROP. PULL BOX, 725.08: 18",
S.L.M. 23.27, 67' LT.

(PB2) - PROP. PULL BOX, 725.08: 18",
S.L.M. 23.35, 135' LT.

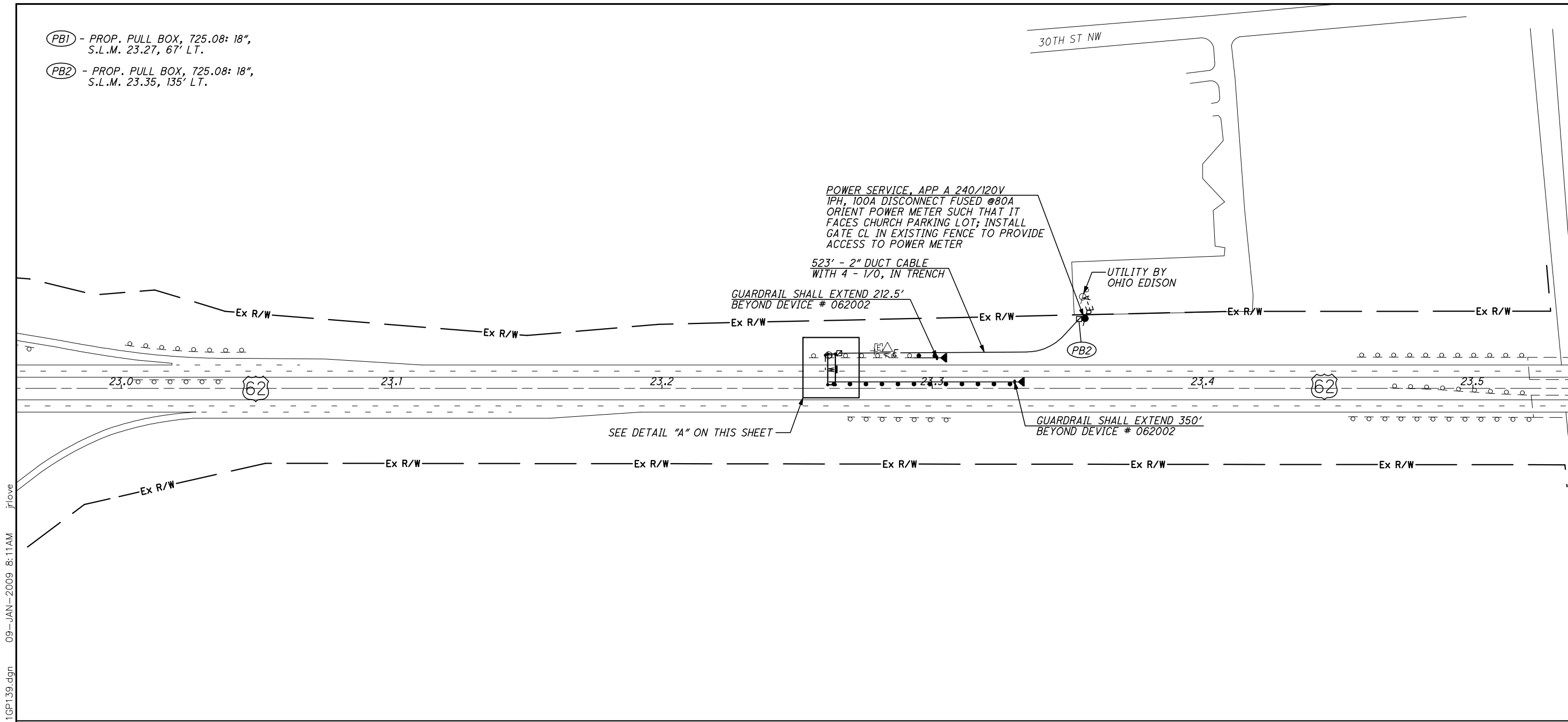


CALCULATED STS
CHECKED JDG

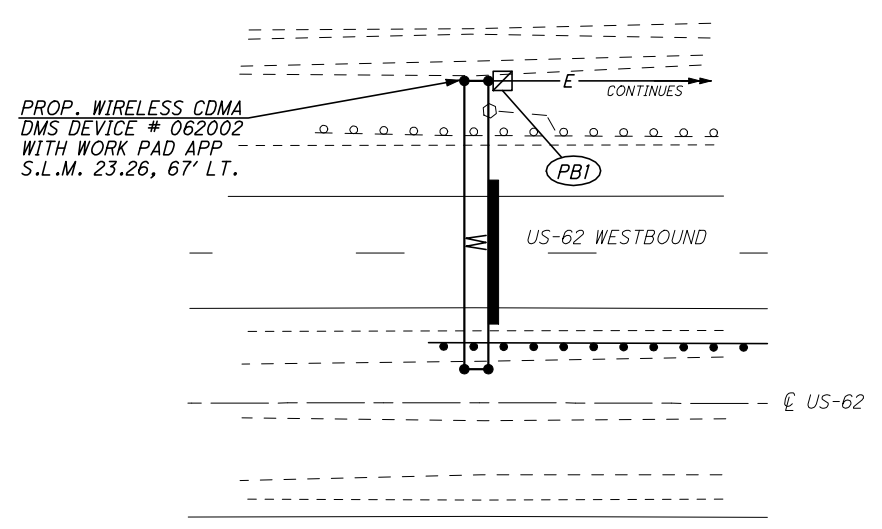
US-62 E OF CLEVELAND AVE. (MP 23.0 TO MP 23.5)
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

125
154



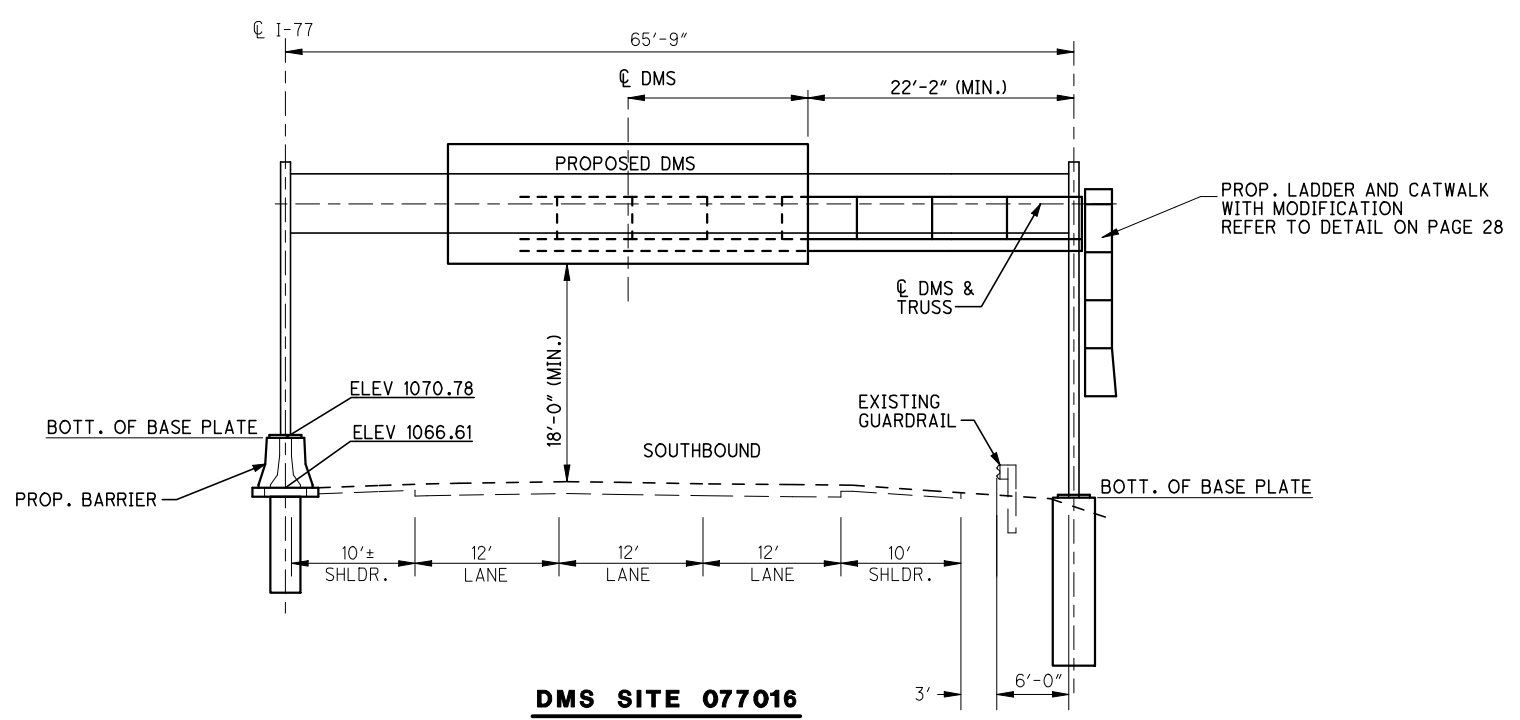
DETAIL "A" - NOT TO SCALE



- REFER TO SHEETS 12A FOR PULL BOX ORIENTATION FOR DMS LOCATIONS DETAILS
- REFER TO SHEET 13 FOR TYPICAL POWER SERVICE AS PER PLAN A DETAILS
- REFER TO SHEET 24 FOR TYPICAL DMS DETAILS
- REFER TO SHEET 128 FOR DMS PROFILE
- REFER TO TRUSS ROW SIGN SUPPORT FOUNDATIONS FOR DETAILS
- REFER TO SHEET 139 FOR TYPICAL COMMUNICATIONS PLANS
- REFER TO SHEET 147 FOR TYPICAL DMS WIRELESS COMMUNICATIONS DETAILS

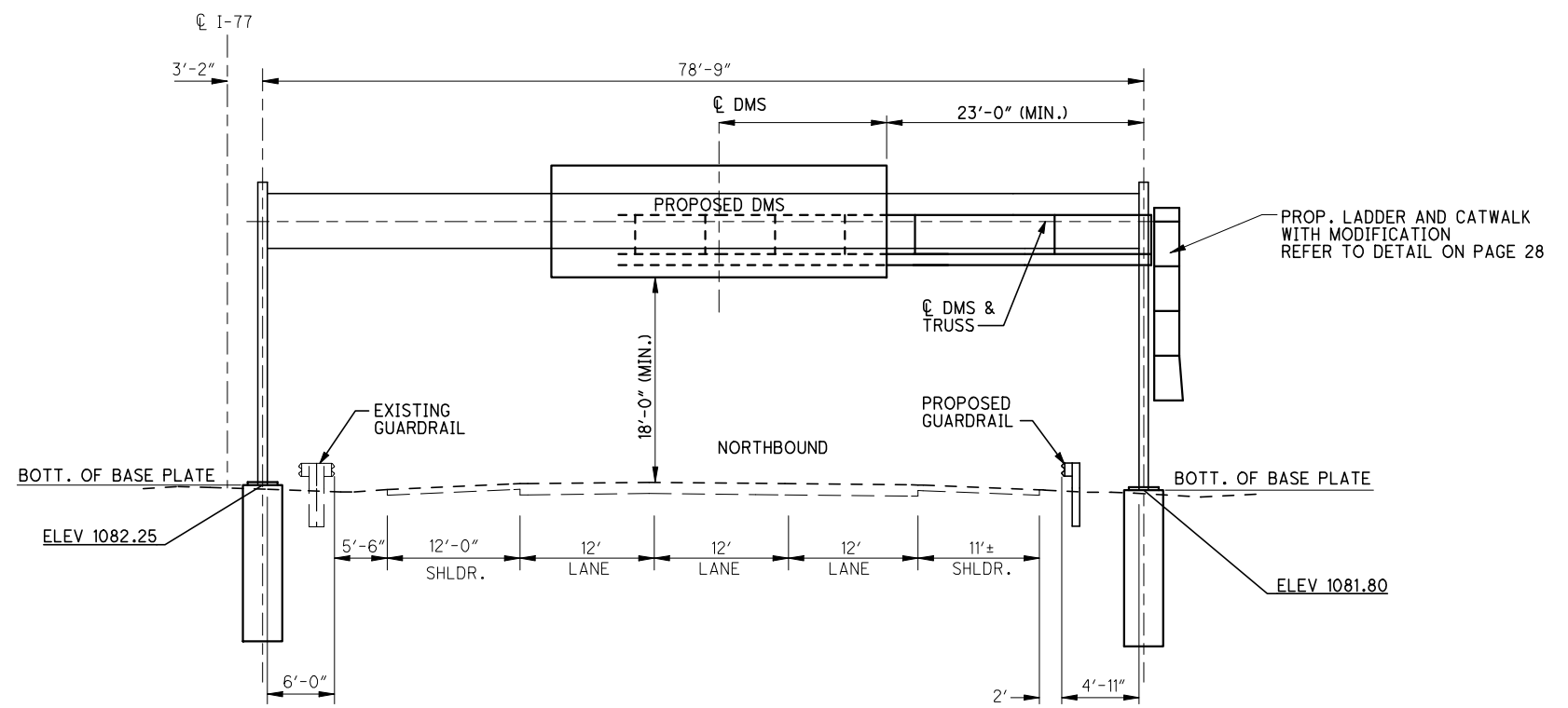
DMS 062002

\\Clew00\PMWork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP139.dgn 09-JAN-2009 8:11AM jrlove



DMS SITE 077016

I-77
 M.P. 108.51 S.B.
 EXIST. SIGN AREA = 150 S.F.
 PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 80'
 OVERHEAD SIGN SUPPORT, AS PER PLAN A
 COLOCATE EXISTING STATIC SIGN ON DMS TRUSS
 REFER TO SHEET 80 FOR PLAN SHEET

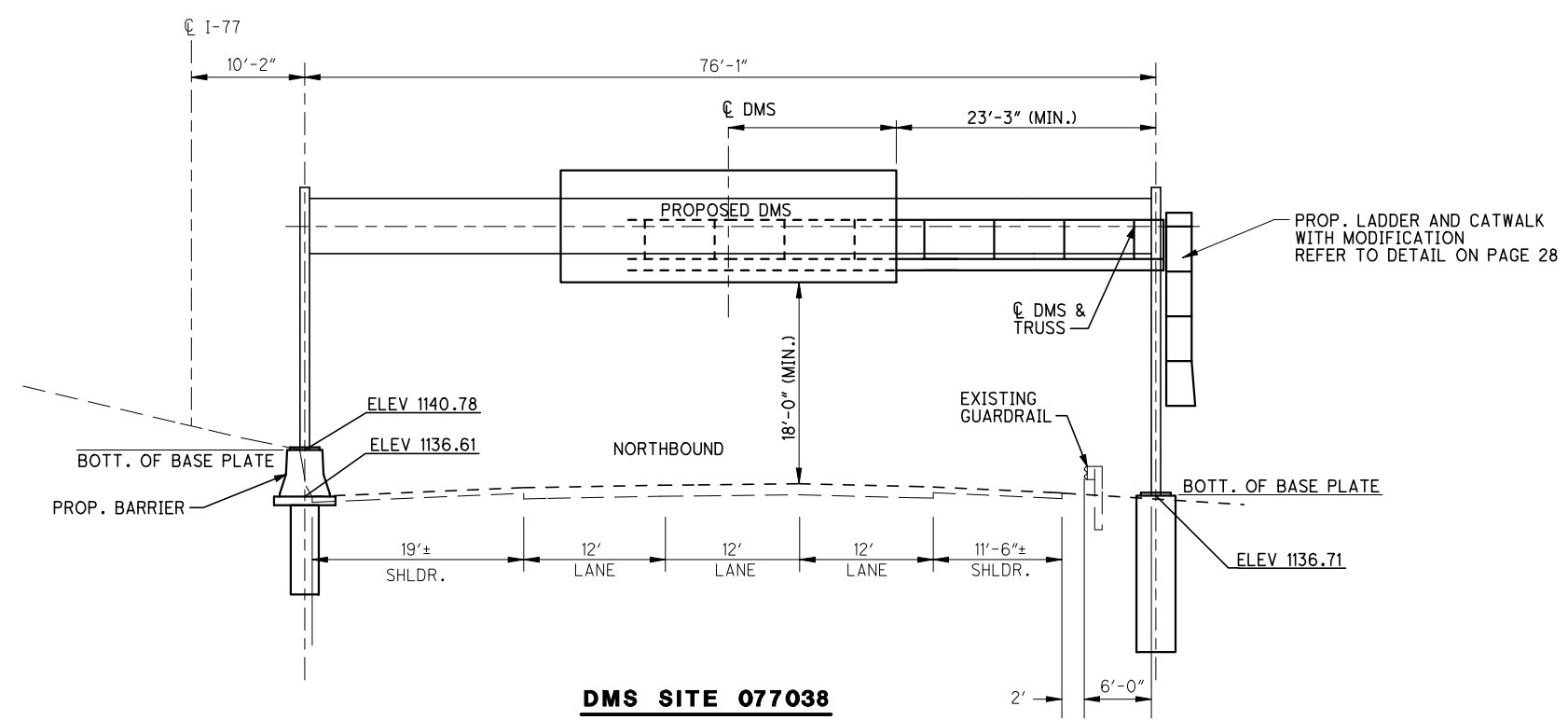


DMS SITE 077024

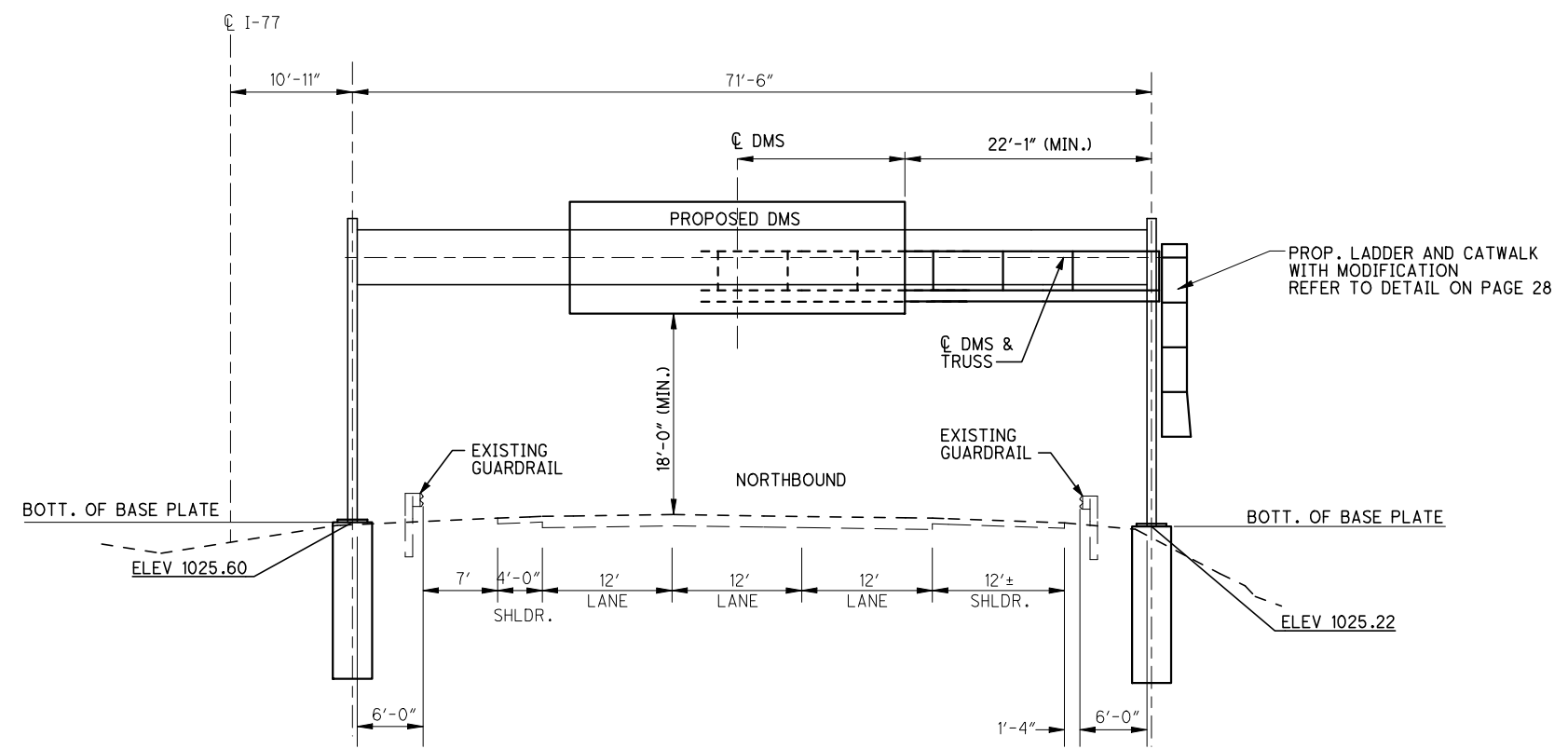
I-77
 S.L.M. 112.80 N.B.
 EXIST. SIGN AREA = N/A
 PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 80'
 OVERHEAD SIGN SUPPORT, AS PER PLAN A
 REFER TO SHEET 85 FOR PLAN SHEET

NEED A MIN. OF 6' CLEARANCE,
 REPLACE GR. WITH TYPE 5A

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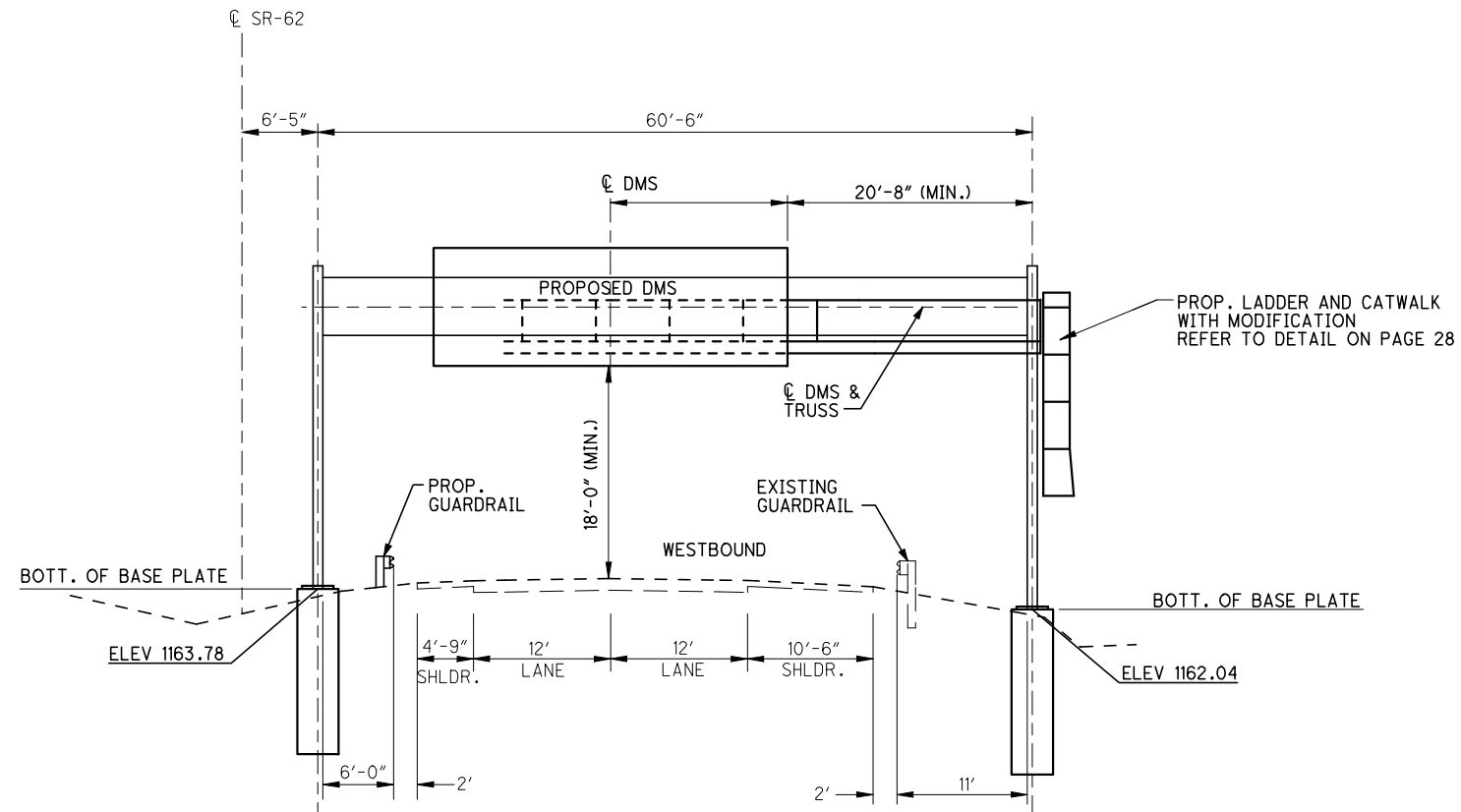
DMS SITE 077038
 I-77
 M.P. 118.93 N.B.
 EXIST. SIGN AREA = 150 S.F.
 PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 80'
 OVERHEAD SIGN SUPPORT, AS PER PLAN A
 COLOCATE EXISTING STATIC SIGN ON DMS TRUSS
 REFER TO SHEET 90 FOR PLAN SHEET



DMS SITE 077044
 I-77
 S.L.M. 121.44 N.B.
 EXIST. SIGN AREA = 150 S.F.
 PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 80'
 OVERHEAD SIGN SUPPORT, AS PER PLAN A
 COLOCATE EXISTING STATIC SIGN ON DMS TRUSS
 REFER TO SHEET 92 FOR PLAN SHEET

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\\Clew00\pmwork\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GF003.dgn 09-JAN-2009 8:11AM jrlove



DMS SITE 062002

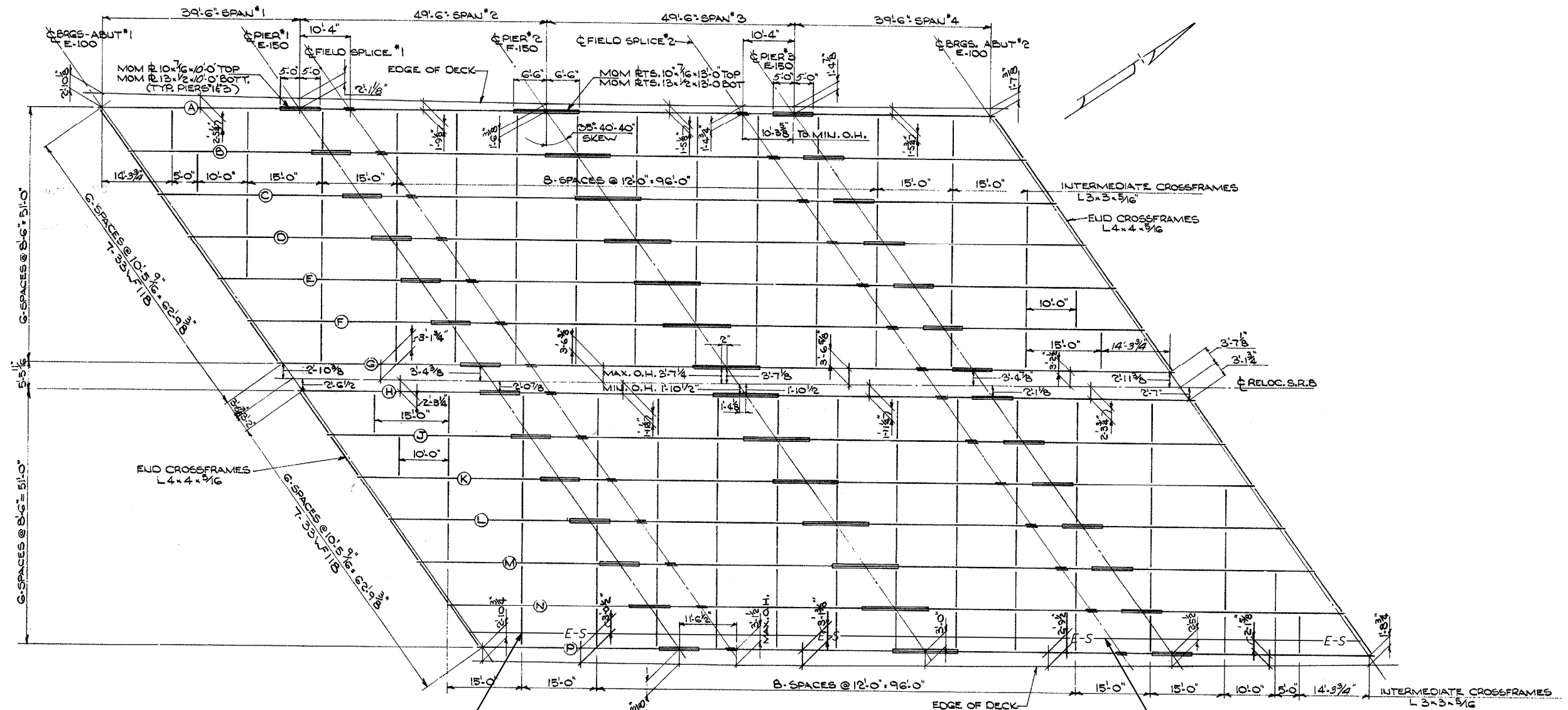
SR-62
 M.P. 23.26 W.B.
 EXIST. SIGN AREA = 150 S.F.
 PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 80'
 OVERHEAD SIGN SUPPORT, AS PER PLAN A
 COLOCATE EXISTING STATIC SIGN ON DMS TRUSS
 REFER TO SHEET 125 FOR PLAN SHEET

CALCULATED	GM
	CHECKED
	JEL

DYNAMIC MESSAGE SIGN PROFILES
SITE 062002

STA - SUM ITS

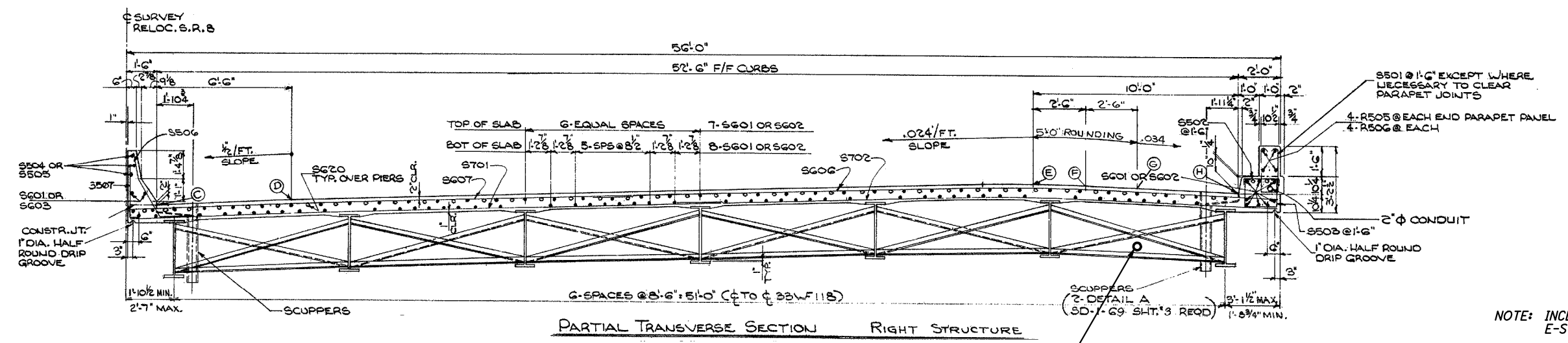
M:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311SD065.dgn 09-JAN-2009 8:12AM jrlove



SEE DETAIL ON SHEET 10 FOR CROSS FRAME ATTACHMENT TYP.

FRAMING PLAN

1 - 3" FIBERGLASS CONDUIT FOR ELECTRIC CABLE



PARTIAL TRANSVERSE SECTION RIGHT STRUCTURE

1 - 3" FIBERGLASS CONDUIT FOR ELECTRIC CABLE

NOTE: INCLUDE EXPANSION COUPLING FOR E-S AT ALL EXPANSION JOINTS INDICATED.

* THIS SHEET WAS TAKEN FROM ODOT RECORD PLANS AND IS ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 117 FOR PLAN SHEET

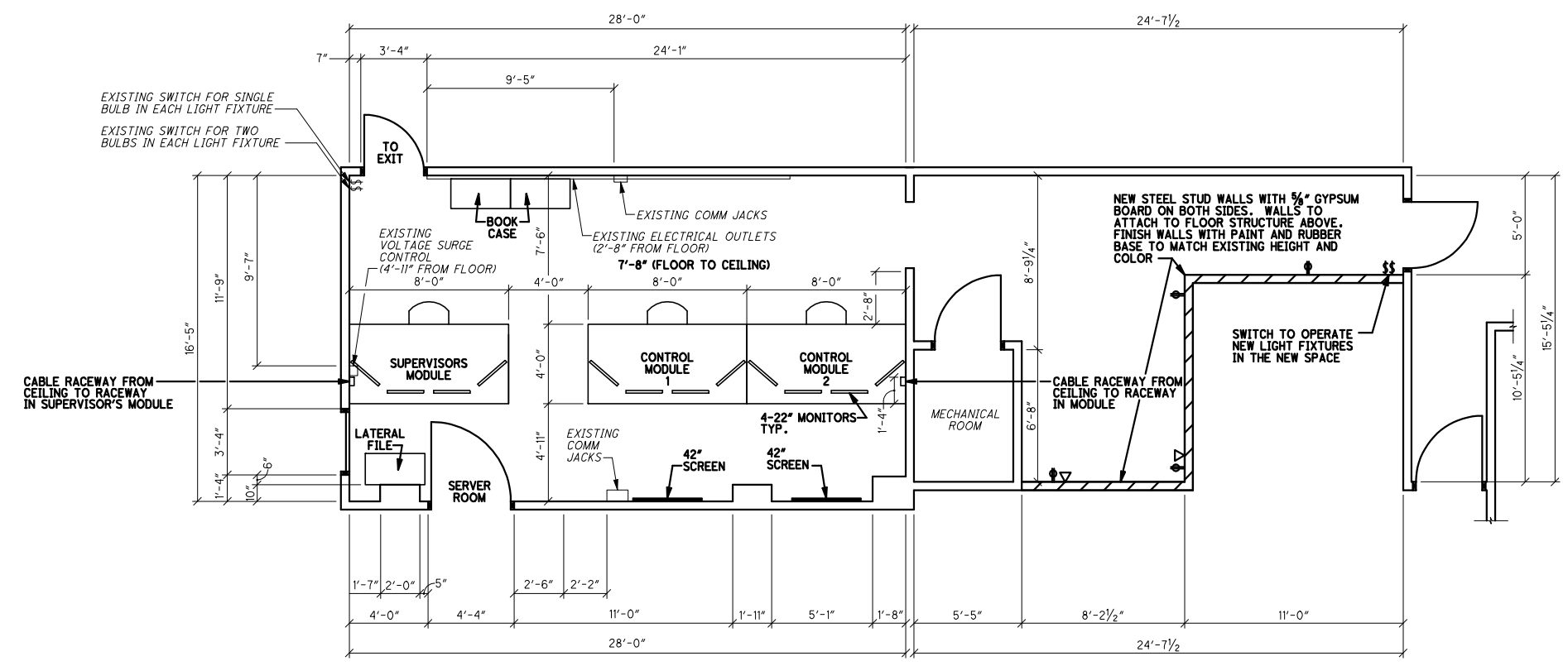
CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-8-0440
STATE ROUTE 8 OVER HOWE AVENUE

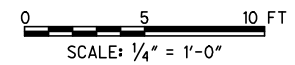
STA-SUM ITS
PID No. 77482

DESIGN AGENCY
OHIO DEPARTMENT OF TRANSPORTATION

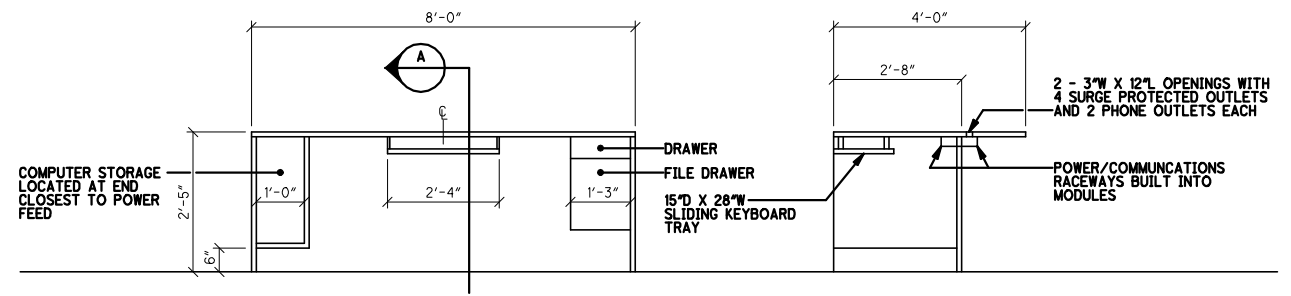
DESIGNED	RAW	CHECKED	JDG
DRAWN	GM	REVISED	GM
REVIEWED		STRUCTURE FILE NUMBER	7700563
DATE			



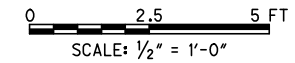
PLAN - CONTROL CENTER PLAN



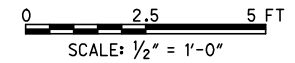
- ▽ PROVIDE DOUBLE GANG JUNCTION BOX WITH 1" C PULL WIRE TO ABOVE NEW LAY IN CEILING INSTALL 18" AFF
- ⬆ DUPLEX RECEPTACLE STANDARD, INSTALL 18" AFF
- \$\$ DOUBLE SWITCH FOR NEW LIGHT FIXTURES



TYPICAL MODULE FRONT ELEVATION



SECTION A

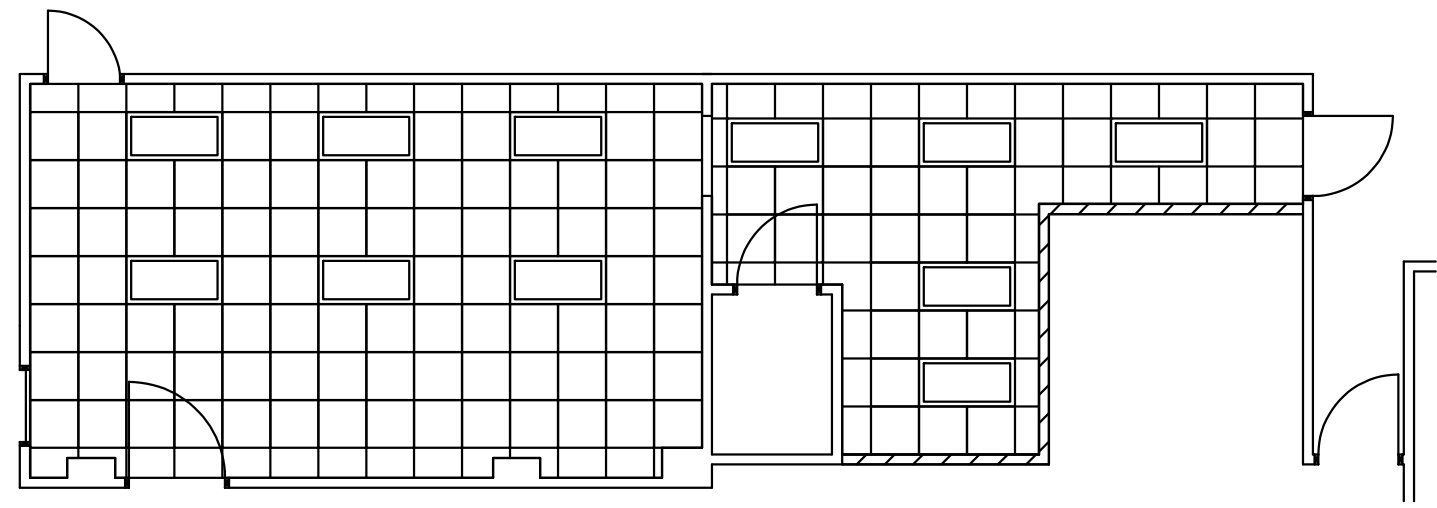


ELECTRICAL REQUIREMENTS

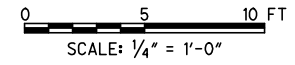
1. ALL ELECTRICAL WORK SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS
2. SWITCHES: TOTALLY ENCLOSED, 20 AMPERE, 120/277 VOLT QUIET A/C GENERAL USE SNAP SWITCHES, SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, P&S, OR LEVITON
3. RECEPTACLES: NEMA CONFIGURATION 5-20R 125 VOLT GROUNDING TYPE RATED FOR 20 AMPERES, SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, P&S, OR LEVITON
4. CABLE RACEWAY: PANDUIT PAN-WAY T-70 CABLE RACEWAY WITH ACCESSORIES REQUIRED OR APPROVED EQUAL
5. FLOOR CABLE PROTECTOR: CABLE GUARD 2 CHANNEL CABLE COVER, 1.25" HIGH X 11" WIDE OR APPROVED EQUAL

LIGHTING TYPES

TYPE	DESCRIPTION	MANUFACTURER'S CATALOG NUMBER
A	2'x4' RECESSED DIRECT/INDIRECT ARCHITECTURAL FLUORESCENT LUMINAIRE, 3-LAMP, WITH MICRO-PERFORATED METAL MESH LAMP SHIELD AND WHITE OVERLAY ON INSIDE OF SHIELD, 2/1 STEP LAMP BALLAST CONFIGURATION.	DAY-BRIGHT CAT NO. 2AVMG332-PMW-UNV-1/21 EB OR APPROVED EQUAL



CEILING TILE GRID AND LIGHTING PLAN



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