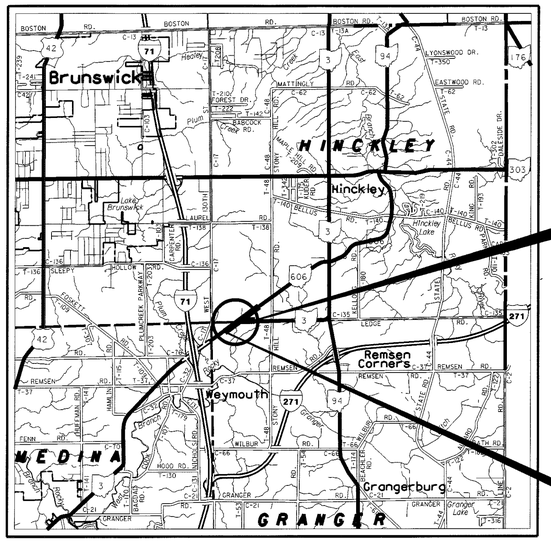


LOCATION MAP

LATITUDE: 41°12'14" LONGITUDE: 81°46'16"

SCALE IN MILES

0 1 2 3 4

PORTION TO BE IMPROVED

UNDIVIDED STATE & FEDERAL ROUTES

OTHER ROADS

US HIGHWAY

DESIGN DESIGNATION

	S.R. 3	S.R. 606
CURRENT ADT (2003)	7,520	2,190
DESIGN YEAR ADT (2023)	10,530	3,060
DESIGN HOURLY VOLUME (2023)	1053	306
DIRECTIONAL DISTRIBUTION	65-35	50-50
TRUCKS (24 HOUR B&C)	3.5%	4.0%
DESIGN SPEED	55 MPH	55 MPH
LEGAL SPEED	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION -	MAJOR COLLECTOR	MINOR COLLECTOR

DESIGN EXCEPTIONS

	APPROVAL DATE	SHEET NO.
HORIZONTAL ALIGNMENT	SEPTEMBER 3, 2003	2
GRADED SHOULDER WIDTH	SEPTEMBER 3, 2003	4
SUPERELEVATION RATE AND TRANSITION	SEPTEMBER 3, 2003	5

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

PREPARED AND RECOMMENDED BY:

RICHLAND ENGINEERING LIMITED
29 NORTH PARK STREET
MANSFIELD OHIO 44902
PHONE: (419) 524-0074 FAX: (419) 524-1812

ENGINEERS SEAL:

STATE OF OHIO EDWARD E. LITT E-42554 REGISTERED PROFESSIONAL ENGINEER

SIGNED: Edward E. Litt
DATE: October 2, 2003

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
MED-3-17.82
PART 1
HINCKLEY/GRANGER TOWNSHIP
MEDINA COUNTY
FOR PART 2 SEE MED-94-15.82

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PARTS 1 AND 2

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	7-28-00	CB-1.1	7-20-01	DM-1.1	7-20-01			MT-97.10	4-19-02	832	2-12-03
BP-4.1	7-28-00	CB-1.2	7-20-01					MT-97.11	4-19-02	833	
BP-5.1	7-28-00	CB-2.1	7-20-01	DM-2.1	7-20-01	TC-41.20	1-19-01	MT-99.20M	1-30-95	908	4-19-02
		CB-3.2	7-20-01	DM-3.1	7-20-01	TC-41.40	1-18-02	MT-101.60M	4-25-94		
GR-2.1M	4-14-98			DM-4.2	7-20-01	TC-42.20	4-20-01	MT-105.10M	4-25-94		
GR-4.2M	10-21-97			DM-4.3	7-20-01	TC-52.10	4-20-01	MT-105.11M	4-25-94		
		HW-2.1	7-20-01	DM-4.4	7-20-01	TC-52.20	4-20-01				
RM-1.1	4-29-99	HW-2.2	7-20-01			TC-61.10	1-19-01				
		MH-1.1	7-20-01			TC-65.10	10-19-01				
		MH-1.2	7-20-01			TC-65.11	10-19-01				
		MH-3.1	7-20-01			TC-65.12	10-19-01				
						TC-71.10	4-19-02				
						TC-73.10	1-19-01				

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISION
NWP #3
4-9-03

PROJECT DESCRIPTION

IMPROVEMENT OF S.R. 3 & S.R. 606 INTERSECTION BY HORIZONTAL AND VERTICAL REALIGNMENT OF S.R.3, RELOCATION OF THE INTERSECTION AND THE ADDITION OF A LEFT TURN LANE ON S.R. 3. PROJECT LENGTH = 0.33 MILE

2002 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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF S.R. 3 AND S.R. 606 TO TRAFFIC AS NOTED ON SHEET 11, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF ALL TRAFFIC WILL BE SET FORTH ON THE PLANS AND ESTIMATES.

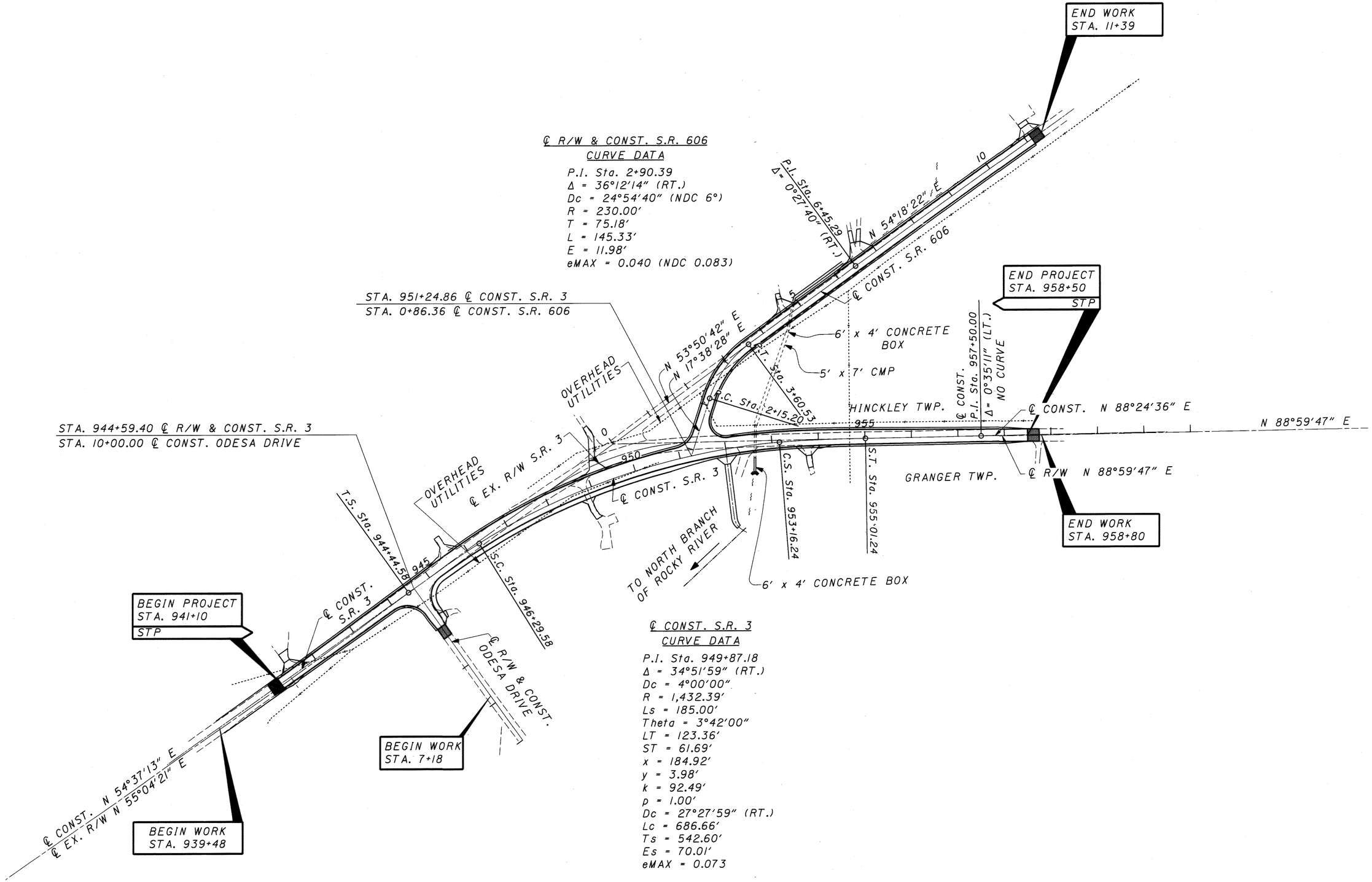
APPROVED Thomas M. O'Leary ACS
DATE 10-8-03 DISTRICT DEPUTY DIRECTOR

APPROVED Gordon Proctor Jr.
DATE 10-27-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E 032 (893)
PID NO. 21984
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
MED-3-17.82
1 / 66

MED - SR 3/94-17.82/15.82 - Part 1 & 2
040011 PID - 21984
Dist 3 1/7/2004

223GT.DGN 10/1/03 CAR,HNJDY,RC

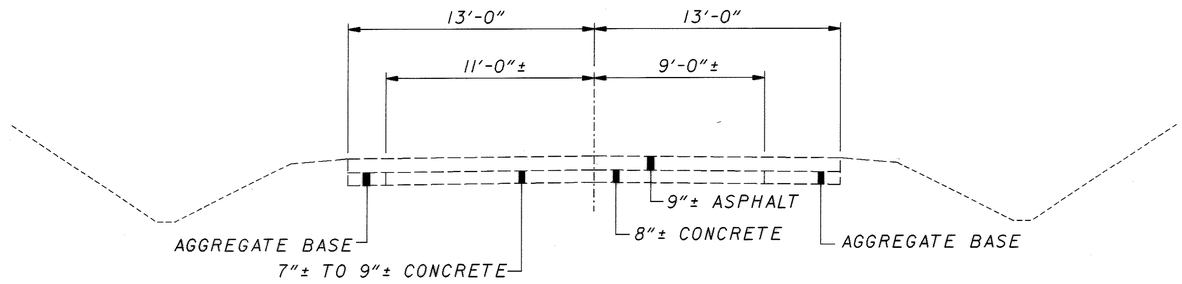


SCHEMATIC PLAN

MED-3-17.82

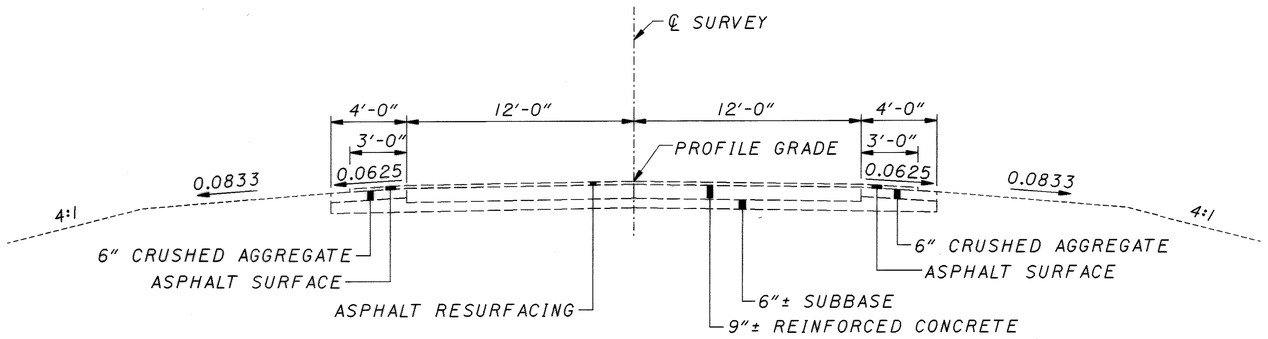
2
66

223GB.DGN 8/29/03 HN,CAR,RC,JDY

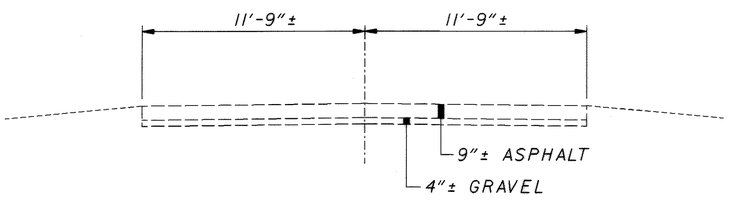


S.R. 3 EXISTING TYPICAL SECTION

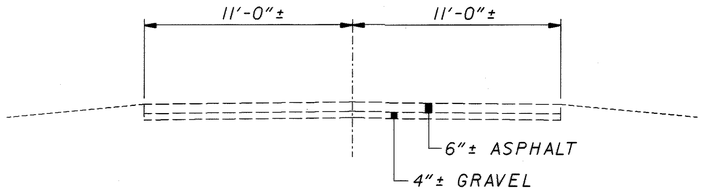
STA. 941+10 AND STA. 958+50



S.R. 3 EXISTING TYPICAL SECTION UP TO STA. 940+00±



S.R. 606 EXISTING TYPICAL SECTION



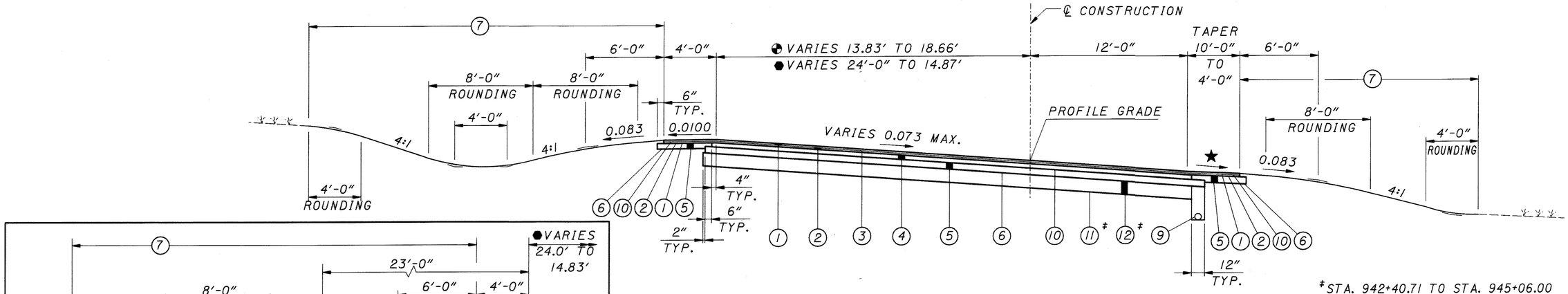
ODESA DRIVE EXISTING TYPICAL SECTION

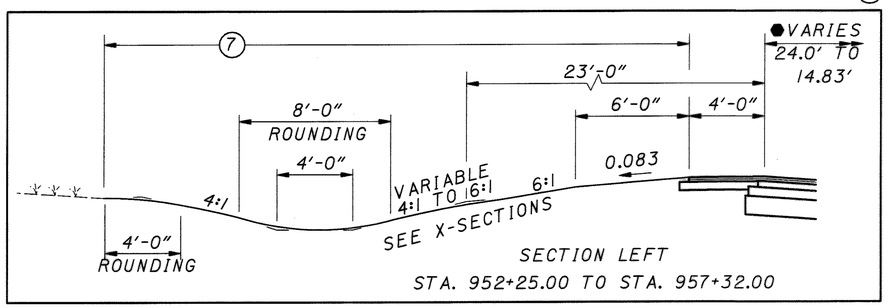
CALCULATED TM
CHECKED PDG

EXISTING TYPICAL SECTIONS

MED-3-17.82

223GYD.DGN 05/02/02 HN,JDY





SECTION LEFT
STA. 952+25.00 TO STA. 957+32.00

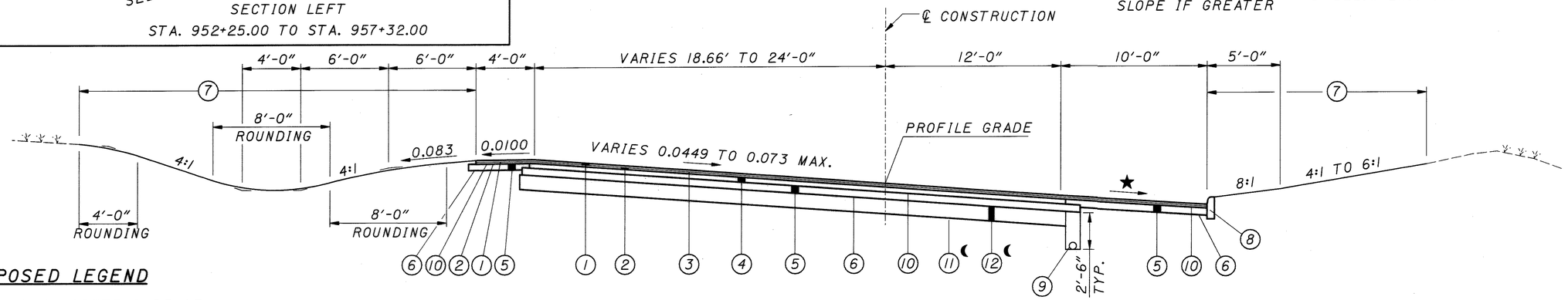
S.R. 3 SUPERELEVATED SECTION

◔ STA. 942+40.71 TO STA. 945+06
● STA. 950+75 TO STA. 957+32.00

★ 0.0417 OR PAVEMENT SLOPE IF GREATER

‡ STA. 942+40.71 TO STA. 945+06.00
1' BELOW EXISTING GROUND OR
1' BELOW PROPOSED SUBGRADE
WHICHEVER IS LOWER

STA. 955+00.00 TO STA. 957+32.00
3' BELOW EXISTING GROUND



PROPOSED LEGEND

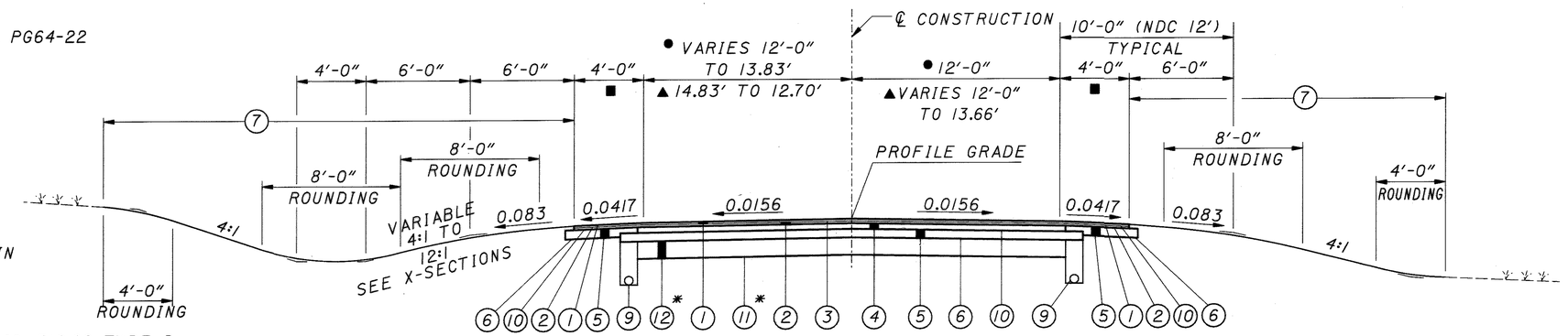
(1)	448	1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
(2)	448	1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
(3)	407	TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTE)
(4)	301	5" ASPHALT CONCRETE BASE, PG64-22
(5)	304	6" AGGREGATE BASE
(6)	204	SUBGRADE COMPACTION
(7)	659	SEEDING & MULCHING (SEE GENERAL NOTE)
(8)	609	CURB, TYPE 6
(9)	605	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP
(10)	408	PRIME COAT
(11)	690	SPECIAL - GEOTEXTILE FABRIC, 712.09 TYPE D
(12)	203	GRANULAR EMBANKMENT MATERIAL, TYPE B

(STA. 945+06.00 TO STA. 947+00.00
1' BELOW EXISTING GROUND OR
1' BELOW PROPOSED SUBGRADE
WHICHEVER IS DEEPER

S.R. 3 SUPERELEVATED SECTION

STA. 945+06 TO STA. 950+75

SEE SUPERELEVATION TABLE, SHEETS 7&8.



* STA. 941+10.00 TO STA. 942+40.71
1' BELOW EXISTING GROUND OR
1' BELOW PROPOSED SUBGRADE
WHICHEVER IS LOWER

STA. 957+32.00 TO STA. 957+75.00
3' BELOW EXISTING GROUND

S.R. 3 NORMAL SECTION

● STA. 941+10.00 TO STA. 942+40.71
▲ STA. 957+32.00 TO STA. 958+50.00

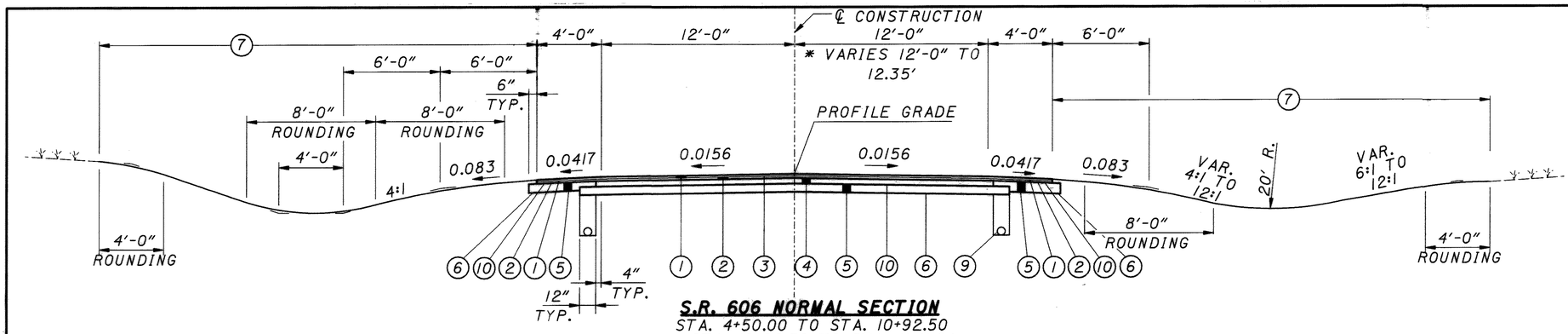
■ Taper from 4'-0" at 958+00 to 0'-0" at 958+50

CALCULATED TM
CHECKED PDG

S.R. 3 - TYPICAL SECTIONS

MED-3-17.82

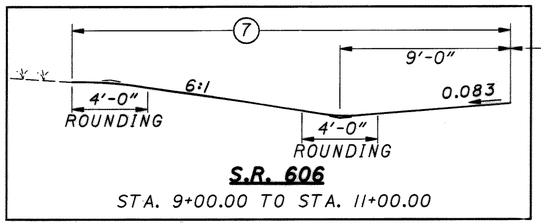
223GYA.DGN 8/28/03 HNJDY,RC



S.R. 606 NORMAL SECTION

STA. 4+50.00 TO STA. 10+92.50

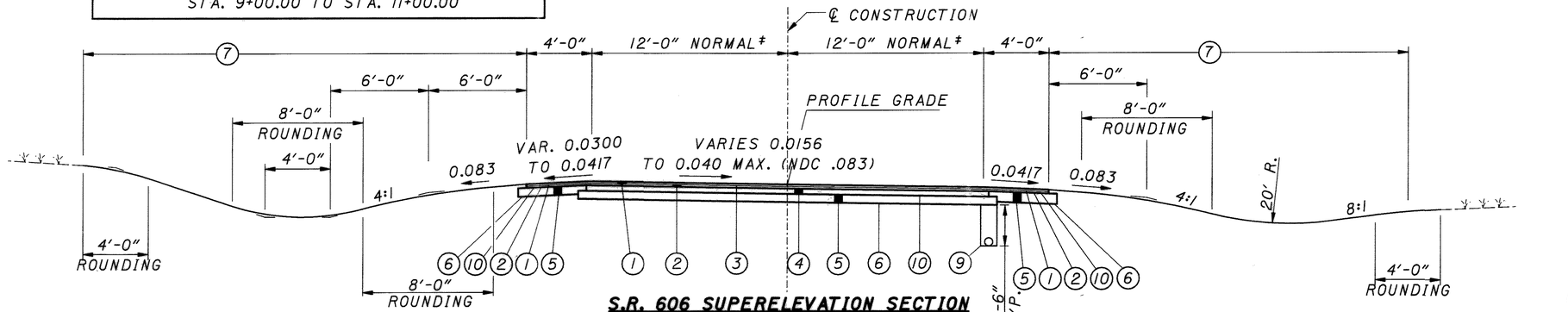
* STA. 10+92.50 TO STA. 11+11.64



S.R. 606

STA. 9+00.00 TO STA. 11+00.00

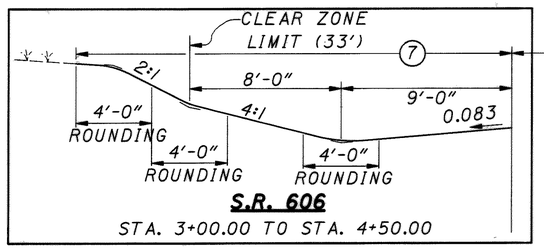
SEE SUPERELEVATION TABLE, SHEET NO. 8



S.R. 606 SUPERELEVATION SECTION

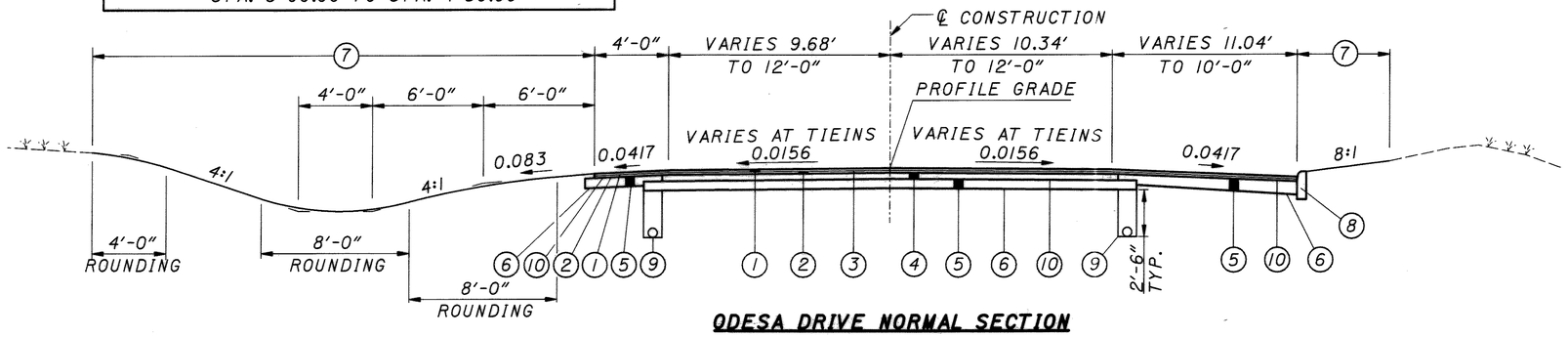
STA. 1+14.07 TO STA. 4+50.00

‡SEE INTERSECTION DETAIL, SHEET NO. 50



S.R. 606

STA. 3+00.00 TO STA. 4+50.00



ODESA DRIVE NORMAL SECTION

STA. 9+00 TO STA. 9+88

PROPOSED LEGEND

(1)	448	1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
(2)	448	1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
(3)	407	TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTE)
(4)	301	5" ASPHALT CONCRETE BASE, PG64-22
(5)	304	6" AGGREGATE BASE
(6)	204	SUBGRADE COMPACTION
(7)	659	SEEDING & MULCHING (SEE GENERAL NOTE)
(8)	609	CURB, TYPE 6
(9)	605	6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP
(10)	408	PRIME COAT
(11)	690	SPECIAL - GEOTEXTILE FABRIC, 712.09 TYPE D
(12)	203	GRANULAR EMBANKMENT MATERIAL, TYPE B

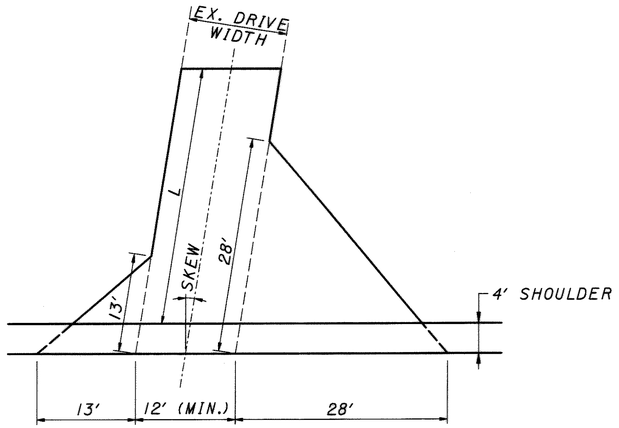
CALCULATED TM CHECKED PDG

S.R. 606 AND ODESA DRIVE - TYPICAL SECTIONS

MED-3-17.82

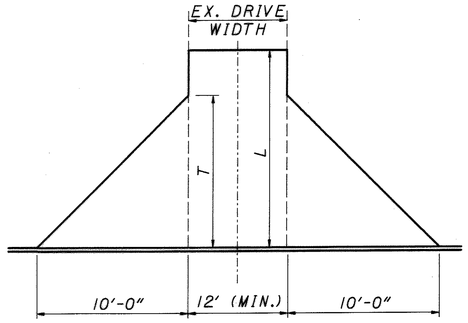
5
66

223GYA.DGN 8/19/03 HN,RC,JDY



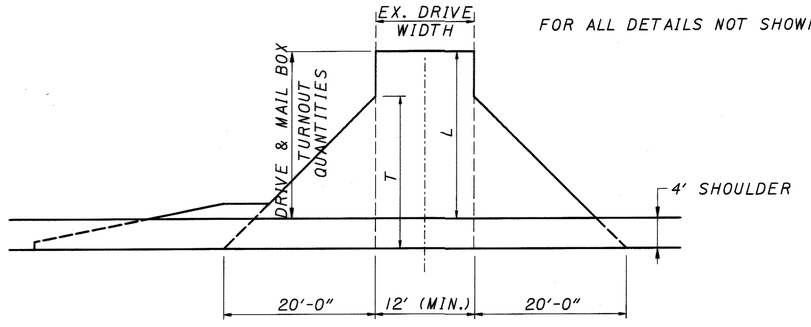
TYPE 3

DRIVEWAYS ADJACENT TO EDGE OF PAVEMENT



TYPE 1

DRIVEWAYS ADJACENT TO CURB

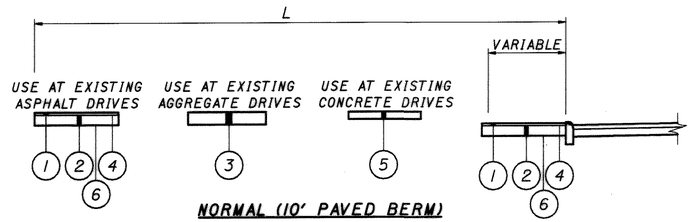


TYPE 2

DRIVEWAYS ADJACENT TO EDGE OF PAVEMENT

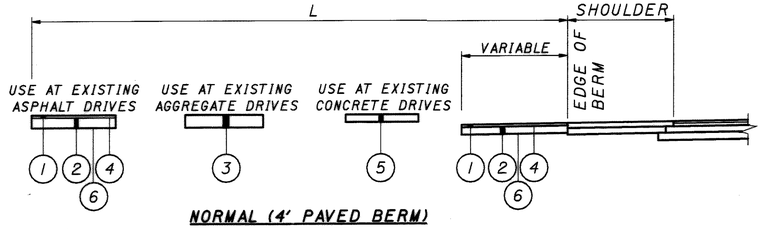
NOTE:
SAW OUT EXISTING ASPHALT AND CONCRETE PAVEMENTS FOR REMOVAL COST INCLUDED IN ITEM 202 OR 203.

FOR ALL DETAILS NOT SHOWN SEE STD. DWG. BP-4.1



NORMAL (10' PAVED BERM)

DRIVEWAYS ADJACENT TO CURBED ROADWAY



NORMAL (4' PAVED BERM)

DRIVEWAYS ADJACENT TO UNCURBED ROADWAY

STATION	SIDE	SKEW ANGLE	EXISTING MATERIAL	DRIVE TYPE	PROPOSED APPROACH MATERIAL	T	L	W	202	204	304		408	448	452
									PAVEMENT REMOVED	SUBGRADE COMPACTION	AGGREGATE BASE 6"	AGGREGATE BASE 8"	PRIME COAT	2" ASPHALT CONCRETE SURFACE COURSE, TYPE I PG64-22 (DRIVEWAYS)	6" NON-REINFORCED CONCRETE PAVEMENT
						FEET	FEET	FEET	SQ. YD.	SQ. YD.	CU.YD.	CU.YD.	GALLON	CU. YD.	SQ. YD.
S.R. 3															
941+35.00	RT.	MAIL BOX TURNOUT		-	ASPHALT					5.4	0.90		2.2	0.45	
941+47.70	LT.		CONCRETE	2	ASPHALT	20.0	37.0	14.0	100	87.5	8.89		21.3	2.96	40.7
945+61.00	LT.		ASPHALT	2	ASPHALT	20.0	38.0	12.0		81.5	13.59		32.6	4.53	
948+85.10	RT.	3.5° RF	ASPHALT	1	ASPHALT	10.0	47.0	12.0		74.6	12.48		29.9	4.16	
949+02.77	LT.	20° LF	LIMESTONE	3	ASPHALT		101.0	12.0		68.9	11.50	22.12	27.6	3.83	
952+00.00	RT.	2.5° RR	GRAVEL	2	ASPHALT	20.0	156.0	12.0		49.8	8.30	40.70	19.9	2.76	
953+76.33	RT.	5° RF	GRAVEL/SLAG	2	ASPHALT	20.0	42.0	12.0		49.8	8.30	7.88	19.9	2.76	
ODESA DRIVE															
9+21.00	RT.	12° RR	LIMESTONE	1	ASPHALT		5.5	14.0		6.2		1.9			
S.R. 606															
4+54.13	LT.	23° LF	LIMESTONE	3	ASPHALT		37.3	12.0		67.2	11.20	3.48	26.9	3.74	
6+55.06	LT.	25° LF	LIMESTONE	3	ASPHALT		54.0	22.0		122.1	20.36	11.30	48.9	6.78	
11+15.00	LT.		GRAVEL	2	ASPHALT	14.0	25.5	20.8		67.1	11.19	8.07	26.9	3.73	
TOTALS									100	680.1	106.71	95.45	256.1	35.70	40.72
TOTALS CARRIED TO GENERAL SUMMARY									**100**	**680**	**203**		**256**	**36**	**41**

PROPOSED LEGEND

(1) 448 2" ASPHALT SURFACE COURSE, TYPE I, PG64-22 (DRIVEWAYS)

(2) 304 6" AGGREGATE BASE

(3) 304 8" AGGREGATE BASE

(4) 408 BITUMINOUS PRIME COAT, APPLIED AT THE RATE OF 0.4 GALS./SQ.YD.

(5) 452 6" NON-REINFORCED CONCRETE PAVEMENT

(6) 204 SUBGRADE COMPACTION

CALCULATED TM CHECKED EEL

DRIVE DETAILS & SUBSUMMARY

MED-3-17.82

223GYB.DGN 8/28/03 CAR.JDY.KH.RC

LEFT SIDE									CENTERLINE CONTROL		RIGHT SIDE								REMARKS
SHOULDER EDGE EL.	SHOULDER CORR.	SHOULDER SLOPE	SHOULDER WIDTH	PAVEMENT EDGE EL.	TRANSITION RATE	ELEV. CORR.	CROSS SLOPE	PAVT WIDTH	STATION	PROFILE GRADE	PAVT WIDTH	CROSS SLOPE	ELEV. CORR.	TRANSITION RATE	PAVEMENT EDGE EL.	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER CORR.	SHOULDER EDGE EL.	
1189.12	-0.17	-0.0417	4.00	1189.29±		-0.20	-0.0166	12.00	941+10.00	1189.49	12.00	-0.0317	-0.38		1189.11±	4.00	-0.0417	-0.17	1188.94	
1189.32	-0.17	-0.0417	4.00	1189.49		-0.19	-0.0156	12.00	941+25.00	1189.68		-0.0257	-0.31		1189.37	4.00	-0.0417	-0.17	1189.21	
1189.52	-0.17	-0.0417	4.00	1189.69		-0.19	-0.0156	12.00	941+40.00	1189.88		-0.0196	-0.24		1189.64	4.00	-0.0417	-0.17	1189.48	
1189.65	-0.17	-0.0417	4.00	1189.82		-0.19	-0.0156	12.18	941+50.00	1190.01		-0.0156	-0.19		1189.82	4.00	-0.0417	-0.17	1189.66	
1189.97	-0.17	-0.0417	4.00	1190.14		-0.20	-0.0156	12.64	941+75.00	1190.34		-0.0156	-0.19		1190.15	4.00	-0.0417	-0.17	1189.98	
1190.29	-0.17	-0.0417	4.00	1190.46		-0.20	-0.0156	13.09	942+00.00	1190.66		-0.0156	-0.19		1190.47	4.00	-0.0417	-0.17	1190.31	
1190.61	-0.17	-0.0417	4.00	1190.78		-0.21	-0.0156	13.55	942+25.00	1190.99		-0.0156	-0.19		1190.80	4.00	-0.0417	-0.17	1190.63	
1190.80	-0.17	-0.0417	4.00	1190.97	210:1	-0.22	-0.0156	13.83	942+40.71	1191.19		-0.0156	-0.19		1191.00	4.00	-0.0417	-0.17	1190.84	NC
1190.95	-0.17	-0.0417	4.00	1191.12		-0.19	-0.0135	14.00	942+50.00	1191.31		-0.0156	-0.19		1191.12	4.00	-0.0417	-0.17	1190.96	
1191.36	-0.17	-0.0417	4.00	1191.53		-0.11	-0.0078	14.45	942+75.00	1191.64		-0.0156	-0.19		1191.45	4.00	-0.0417	-0.17	1191.28	
1191.75	-0.17	-0.0417	4.00	1191.92		-0.03	-0.0021	14.91	943+00.00	1191.95		-0.0156	-0.19		1191.76	4.00	-0.0417	-0.17	1191.60	
1191.89	-0.17	-0.0417	4.00	1192.06		0.00	0.0000	15.08	943+09.18	1192.06		-0.0156	-0.19		1191.87	4.00	-0.0417	-0.17	1191.71	1/2 FLAT
1192.18	-0.17	-0.0417	4.00	1192.35		0.06	0.0036	15.36	943+25.00	1192.29		-0.0156	-0.19		1192.10	4.00	-0.0417	-0.17	1191.93	
1192.58	-0.17	-0.0417	4.00	1192.75		0.15	0.0093	15.82	943+50.00	1192.60		-0.0156	-0.19		1192.41	4.00	-0.0417	-0.17	1192.24	
1192.98	-0.17	-0.0417	4.00	1193.15		0.24	0.0150	16.27	943+75.00	1192.91		-0.0156	-0.19		1192.72	4.00	-0.0417	-0.17	1192.56	
1193.00	-0.17	-0.0417	4.00	1193.17		0.25	0.0156	16.32	943+77.65	1192.92		-0.0156	-0.19	360:1	1192.73	4.00	-0.0417	-0.17	1192.57	RC
1193.36	-0.17	-0.0417	4.00	1193.53		0.35	0.0207	16.73	944+00.00	1193.18		-0.0207	-0.25		1192.93		ODESA DRIVE INTERSECTION			
1193.71	-0.17	-0.0436	4.00	1193.88		0.45	0.0264	17.18	944+25.00	1193.43		-0.0264	-0.32		1193.11					
1193.96	-0.16	-0.0392	4.00	1194.12		0.54	0.0308	17.54	944+44.58	1193.59		-0.0308	-0.37		1193.22					T.S.
1194.06	-0.15	-0.0379	4.00	1194.21		0.57	0.0321	17.64	944+50.00	1193.64		-0.0321	-0.39		1193.25					
1194.18	-0.14	-0.0358	4.00	1194.32		0.61	0.0342	17.81	944+59.39	1193.71		-0.0342	-0.41		1193.30					℄ ODESA
1194.36	-0.13	-0.0322	4.00	1194.49		0.68	0.0378	18.09	944+75.00	1193.81		-0.0378	-0.45		1193.36					
1194.66	-0.11	-0.0265	4.00	1194.77		0.81	0.0435	18.55	945+00.00	1193.96		-0.0435	-0.52		1193.44					
1194.92	-0.08	-0.0208	4.00	1195.00		0.93	0.0492	19.00	945+25.00	1194.07		-0.0492	-0.59		1193.48	10.00	-0.0492	-0.49	1192.99	
1195.17	-0.06	-0.0151	4.00	1195.23		1.07	0.0549	19.45	945+50.00	1194.16		-0.0549	-0.66		1193.50	10.00	-0.0549	-0.55	1192.95	
1195.38	-0.04	-0.0100	4.00	1195.42		1.21	0.0606	19.91	945+75.00	1194.21		-0.0606	-0.73		1193.48	10.00	-0.0606	-0.61	1192.88	
1195.53	-0.04	-0.0100	4.00	1195.57		1.35	0.0663	20.36	946+00.00	1194.22		-0.0663	-0.80		1193.42	10.00	-0.0663	-0.66	1192.76	
1195.67	-0.04	-0.0100	4.00	1195.71		1.50	0.0720	20.82	946+25.00	1194.21		-0.0720	-0.86		1193.35	10.00	-0.0720	-0.72	1192.63	
1195.69	-0.04	-0.0100	4.00	1195.73	210:1	1.53	0.0730	20.90	946+29.58	1194.20		-0.0730	-0.88	360:1	1193.32	10.00	-0.0730	-0.73	1192.59	S.C.
1195.67	-0.04	-0.0100	4.00	1195.71		1.55		21.27	946+50.00	1194.16			-0.88		1193.28	10.00	-0.0730	-0.73	1192.55	
1195.62	-0.04	-0.0100	4.00	1195.67		1.59		21.73	946+75.00	1194.08			-0.88		1193.20	10.00	-0.0730	-0.73	1192.47	
1195.54	-0.04	-0.0100	4.00	1195.58		1.62		22.18	947+00.00	1193.96			-0.88		1193.08	10.00	-0.0730	-0.73	1192.35	
1195.43	-0.04	-0.0100	4.00	1195.47		1.65		22.64	947+25.00	1193.82			-0.88		1192.94	10.00	-0.0730	-0.73	1192.21	
1195.28	-0.04	-0.0100	4.00	1195.33		1.69		23.09	947+50.00	1193.64			-0.88		1192.76	10.00	-0.0730	-0.73	1192.03	
1195.11	-0.04	-0.0100	4.00	1195.15		1.72		23.55	947+75.00	1193.43			-0.88		1192.55	10.00	-0.0730	-0.73	1191.82	
1194.90	-0.04	-0.0100	4.00	1194.94		1.75		24.00	948+00.00	1193.19			-0.88		1192.31	10.00	-0.0730	-0.73	1191.58	
1194.62	-0.04	-0.0100	4.00	1194.66		1.75			948+25.00	1192.91			-0.88		1192.03	10.00	-0.0730	-0.73	1191.30	
1194.32	-0.04	-0.0100	4.00	1194.36		1.75			948+50.00	1192.61			-0.88		1191.73	10.00	-0.0730	-0.73	1191.00	
1193.98	-0.04	-0.0100	4.00	1194.02		1.75			948+75.00	1192.27			-0.88		1191.39	10.00	-0.0730	-0.73	1190.66	
1193.61	-0.04	-0.0100	4.00	1193.65		1.75			949+00.00	1191.90			-0.88		1191.02	10.00	-0.0730	-0.73	1190.29	
1193.20	-0.04	-0.0100	4.00	1193.24		1.75			949+25.00	1191.49			-0.88		1190.61	10.00	-0.0730	-0.73	1189.88	
1192.77	-0.04	-0.0100	4.00	1192.81		1.75			949+50.00	1191.06			-0.88		1190.18	10.00	-0.0730	-0.73	1189.45	
1192.30	-0.04	-0.0100	4.00	1192.34		1.75			949+75.00	1190.59			-0.88		1189.71	10.00	-0.0730	-0.73	1188.98	
1191.80	-0.04	-0.0100	4.00	1191.84		1.75			950+00.00	1190.09			-0.88		1189.21	10.00	-0.0730	-0.73	1188.48	
1191.31	-0.04	-0.0100	4.00	1191.35		1.75			950+25.00	1189.60			-0.88		1188.72	10.00	-0.0730	-0.73	1187.99	
1190.88	-0.04	-0.0100	4.00	1190.92		1.75			950+50.00	1189.17			-0.88		1188.29	10.00	-0.0730	-0.73	1187.56	
1190.50	-0.04	-0.0100	4.00	1190.54		1.75			950+75.00	1188.79			-0.88		1187.91	10.00	-0.0730	-0.73	1187.18	
S.R. 606 INTERSECTION				1190.23		1.75			951+00.00	1188.48			-0.88		1187.60	8.50	-0.0730	-0.62	1186.98	
				1189.97		1.75			951+24.86	1188.22			-0.88		1187.34	7.01	-0.0730	-0.51	1186.83	℄ SR 606
				1189.97		1.75			951+25.00	1188.22			-0.88		1187.34	7.00	-0.0730	-0.51	1186.83	
				1189.77		1.75			951+50.00	1188.02			-0.88		1187.14	5.50	-0.0730	-0.40	1186.74	
				1189.63		1.75			951+75.00	1187.88			-0.88		1187.00	4.00	-0.0730	-0.29	1186.71	
				1189.55		1.75			952+00.00	1187.80			-0.88		1186.92	4.00	-0.0730	-0.29	1186.63	
1189.48	-0.04	-0.0100	4.00	1189.52		1.75		24.00	952+25.00	1187.77			-0.88		1186.89	4.00	-0.0730	-0.29	1186.60	
1189.48	-0.04	-0.0100	4.00	1189.52		1.72		23.55	952+50.00	1187.80			-0.88		1186.92	4.00	-0.0730	-0.29	1186.63	
1189.54	-0.04	-0.0100	4.00	1189.58		1.69		23.10	952+75.00	1187.89			-0.88		1187.01	4.00	-0.0730	-0.29	1186.72	
1189.64	-0.04	-0.0100	4.00	1189.68		1.65		22.64	953+00.00	1188.03			-0.88		1187.15	4.00	-0.0730	-0.29	1186.86	
1189.74	-0.04	-0.0100	4.00	1189.78	210:1	1.63	0.0730	22.35	953+16.24	1188.15		-0.0730	-0.88	380:1	1187.27	4.00	-0.0730	-0.29	1186.98	C.S.
1189.78	-0.04	-0.0100	4.00	1189.82		1.58	0.0711	22.19	953+25.00	1188.24		-0.0711	-0.85		1187.39	4.00	-0.0711	-0.28	1187.10	
1189.89	-0.04	-0.0100	4.00	1189.93		1.43	0.0658	21.74	953+50.00	1188.50		-0.0658	-0.79		1187.71	4.00	-0.0658	-0.26	1187.45	
1190.07	-0.04	-0.0095	4.00	1190.11		1.29	0.0605	21.29	953+75.00	1188.82		-0.0605	-0.73		1188.09	4.00	-0.0605	-0.24	1187.85	
1190.29	-0.06	-0.0148	4.00	1190.35		1.15	0.0552	20.84	954+00.00	1189.20		-0.0552	-0.66		1188.54	4.00	-0.0552	-0.22	1188.32	
1190.57	-0.08	-0.0202	4.00	1190.65		1.02	0.0498	20.38	954+25.00	1189.63		-0.0498	-0.60		1189.03	4.00	-0.0498	-0.20	1188.83	
1190.91	-0.10	-0.0255	4.00	1191.01		0.89	0.0445	19.93	954+50.00	1190.12		-0.0445	-0.53		1189.59	4.00	-0.0445	-0.18	1189.41	
1191.31	-0.12	-0.0308	4.00	1191.43		0.76	0.0392	19.48	954+75.00	1190.67		-0.0392	-0.47		1190.20	4.00	-0.0417	-0.17	1190.03	
1191.78	-0.14	-0.0362	4.00	1191.92		0.64	0.0338	19.03	955+00.00	1191.28		-0.0338	-0.41		1190.87	4.00	-0.0417	-0.17	1190.71	
1191.79	-0.15	-0.0364	4.00	1191.94		0.64	0.0336	19.01	955+01.24	1191.30		-0.0336	-0.40		1190.90	4.00	-0.0417	-0.17	1190.73	S.T.
1192.31	-0.17	-0.0415	4.00	1192.48		0.53	0.0285	18.58	955+25.00	1191.95		-0.0285	-0.34		1191.61	4.00	-0.0417	-0.17	1191.44	
1192.92	-0.17	-0.0417	4.00	1193.09		0.42	0.0232	18.12	955+50.00	1192.67		-0.0232	-0.28		1192.39	4.00	-0.0417	-0.17	1192.22	
1193.60	-0.17	-0.0417	4.00	1193.77		0.32	0.0179	17.67	955+75.00	1193.45		-0.0179	-0.21		1193.24	4.00	-0.0417	-0.17	1193.07	
1193.89	-0.17	-0.0417	4.00	1194.06		0.27	0.0156	17.48	955+85.80	1193.79		-0.0156	-0.19	380:1	1193.60	4.00	-0.0417	-0.17	1193.44	RC
1194.34	-0.17	-0.0417	4.00	1194.51		0.22	0.0125	17.22	956+00.00	1194.29		-0.0156	-0.19		1194.10	4.00	-0.0417	-0.17	1193.94	
1195.10	-0.17	-0.0417	4.00	1195.27		0.12	0.0072	16.77	956+25.00	1195.15		-0.0156	-0.19		1194.96	4.00	-0.0417	-0.17	1194.79	

SR 3 MAX SUPERELEVATION RATE = 0.073

CALCULATED TM
CHECKED EEL

S.R. 3 - SUPERELEVATION TABLE

MED-3-17.82

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223GSA.DGN 12/3/01 CAR

S.R. 3 SUPERELEVATION TABLE .... CONTINUED
MAX SUPERELEVATION RATE - 0.073

LEFT SIDE									CENTERLINE CONTROL		RIGHT SIDE									REMARKS
SHOULDER EDGE EL.	SHOULDER CORR.	SHOULDER SLOPE	SHOULDER WIDTH	PAVEMENT EDGE EL.	TRANSITION RATE	ELEV. CORR.	CROSS SLOPE	PAVT WIDTH	STATION	PROFILE GRADE	PAVT WIDTH	CROSS SLOPE	ELEV. CORR.	TRANSITION RATE	PAVEMENT EDGE EL.	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER CORR.	SHOULDER EDGE EL.	
1195.88	-0.17	-0.0417	4.00	1196.05	↕	+0.03	0.0019	16.32	956+50.00	1196.02	↕	-0.0156	-0.19		1195.83	4.00	-0.0417	-0.17	1195.67	
1196.16	-0.17	-0.0417	4.00	1196.33	↕	0.00	0.0000	16.16	956+58.86	1196.33	↕	-0.0156	-0.19		1196.14	4.00	-0.0417	-0.17	1195.97	1/2 FLAT
1196.66	-0.17	-0.0417	4.00	1196.83	↕	-0.05	-0.0034	15.86	956+75.00	1196.88	↕	-0.0156	-0.19		1196.69	4.00	-0.0417	-0.17	1196.52	
1197.45	-0.17	-0.0417	4.00	1197.62	↕	-0.14	-0.0088	15.41	957+00.00	1197.76	↕	-0.0156	-0.19		1197.57	4.00	-0.0417	-0.17	1197.40	
1198.24	-0.17	-0.0417	4.00	1198.41	↕	-0.21	-0.0141	14.96	957+25.00	1198.62	↕	-0.0156	-0.19		1198.43	4.00	-0.0417	-0.17	1198.26	
1198.46	-0.17	-0.0417	4.00	1198.63	210:1	-0.23	-0.0156	14.83	957+32.00	1198.86	↕	-0.0156	-0.19		1198.67	4.00	-0.0417	-0.17	1198.50	NC
1199.09	-0.17	-0.0417	4.00	1199.26		-0.23	-0.0156	14.51	957+50.00	1199.49	12.00	-0.0156	-0.19		1199.30	4.00	-0.0417	-0.17	1199.13	
1199.96	-0.17	-0.0417	4.00	1200.13		-0.22	-0.0156	14.06	957+75.00	1200.35	12.42	-0.0156	-0.19		1200.16	4.00	-0.0417	-0.17	1199.99	
1200.79	-0.17	-0.0417	4.00	1200.96		-0.21	-0.0156	13.60	958+00.00	1201.17	12.83	-0.0156	-0.20		1200.97	4.00	-0.0417	-0.17	1200.80	
1201.66	-0.17	-0.0417	4.00	1201.83		-0.16	-0.0120	13.15	958+25.00	1201.99	13.24	-0.0120	-0.16		1201.83	4.00	-0.0417	-0.17	1201.66	
1202.51	-0.17	-0.0417	4.00	1202.68±		-0.13	-0.0102	12.70	958+50.00	1202.81	13.66	-0.0088	-0.12		1202.69±	4.00	-0.0417	-0.17	1202.52	

S.R. 606 SUPERELEVATION TABLE
MAX SUPERELEVATION RATE - 0.04

LEFT SIDE									CENTERLINE CONTROL		RIGHT SIDE									REMARKS
SHOULDER EDGE EL.	SHOULDER CORR.	SHOULDER SLOPE	SHOULDER WIDTH	PAVEMENT EDGE EL.	TRANSITION RATE	ELEV. CORR.	CROSS SLOPE	PAVT WIDTH	STATION	PROFILE GRADE	PAVT WIDTH	CROSS SLOPE	ELEV. CORR.	TRANSITION RATE	PAVEMENT EDGE EL.	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER CORR.	SHOULDER EDGE EL.	
									1+25.00	1190.35										
			SEE INTERSECTION DETAIL						1+50.00	1190.26				SEE INTERSECTION DETAIL						
									1+75.00	1189.56										
1188.99	-0.17	-0.0417	4.00	1189.16	210:1	+0.24	+0.0200	12.00	2+00.00	1188.92	12.00	-0.0200	-0.24	210:1	1188.68	4.00	-0.0417	-0.17	1188.51	
1188.69	-0.17	-0.0417	↕	1188.86	↕	+0.24	+0.0200	↕	2+15.20	1188.62	↕	-0.0200	-0.24	↕	1188.38	↕	-0.0417	-0.17	1188.21	PC
1188.46	-0.17	-0.0417	↕	1188.63	↕	+0.29	+0.0239	↕	2+25.00	1188.34	↕	-0.0239	-0.29	↕	1188.05	↕	-0.0417	-0.17	1187.89	
1188.07	-0.14	-0.0361	↕	1188.22	↕	+0.41	+0.0339	↕	2+50.00	1187.81	↕	-0.0339	-0.41	↕	1187.40	↕	-0.0417	-0.17	1187.24	
1187.88	-0.12	-0.0300	↕	1188.00	↕	+0.48	+0.0400	↕	2+65.20	1187.52	↕	-0.0400	-0.48	↕	1187.04	↕	-0.0417	-0.17	1186.87	FS
1187.70	-0.12	-0.0300	↕	1187.82	↕	+0.48	↕	↕	2+75.00	1187.34	↕	↕	-0.48	↕	1186.86	↕	-0.0417	-0.17	1186.69	
1187.29	-0.12	-0.0300	↕	1187.41	↕	+0.48	↕	↕	3+00.00	1186.93	↕	↕	-0.48	↕	1186.45	↕	-0.0417	-0.17	1186.28	
1187.13	-0.12	-0.0300	↕	1187.25	↕	+0.48	+0.0400	↕	3+10.53	1186.77	↕	-0.0400	-0.48	↕	1186.29	↕	-0.0417	-0.17	1186.12	FS
1186.84	-0.14	-0.0358	↕	1186.98	↕	+0.41	+0.0342	↕	3+25.00	1186.57	↕	-0.0342	-0.41	↕	1186.16	↕	-0.0417	-0.17	1185.99	
1186.39	-0.17	-0.0417	↕	1186.56	↕	+0.29	+0.0242	↕	3+50.00	1186.27	↕	-0.0242	-0.29	↕	1185.98	↕	-0.0417	-0.17	1185.81	
1186.26	-0.17	-0.0417	↕	1186.43	↕	+0.24	+0.0200	↕	3+60.53	1186.19	↕	-0.0200	-0.24	↕	1185.95	↕	-0.0417	-0.17	1185.78	PT
1186.07	-0.17	-0.0417	↕	1186.24	↕	+0.19	+0.0156	↕	3+71.53	1186.05	↕	-0.0156	-0.19	210:1	1185.86	↕	-0.0417	-0.17	1185.70	RC
1186.02	-0.17	-0.0417	↕	1186.19	↕	+0.17	+0.0142	↕	3+75.00	1186.02	↕	-0.0156	-0.19	↕	1185.83	↕	-0.0417	-0.17	1185.67	
1185.71	-0.17	-0.0417	↕	1185.88	↕	+0.05	+0.0242	↕	4+00.00	1185.83	↕	-0.0156	-0.19	↕	1185.64	↕	-0.0417	-0.17	1185.48	
1185.59	-0.17	-0.0417	↕	1185.76	↕	0.00	0.0000	↕	4+11.53	1185.76	↕	-0.0156	-0.19	↕	1185.57	↕	-0.0417	-0.17	1185.41	1/2 FLAT
1185.47	-0.17	-0.0417	↕	1185.63	↕	-0.07	-0.0056	↕	4+25.00	1185.70	↕	-0.0156	-0.19	↕	1185.51	↕	-0.0417	-0.17	1185.35	
1185.27	-0.17	-0.0417	4.00	1185.43	210:1	-0.19	-0.0156	12.00	4+50.00	1185.62	12.00	-0.0156	-0.19		1185.43	4.00	-0.0417	-0.17	1185.27	NC

CALCULATED TM
CHECKED EEL

S.R. 3 - SUPERELEVATION TABLE &
S.R. 606 SUPERELEVATION TABLE

MED-3-17.82

223GSA.DGN 12/13/01 CAR

ROUNDING

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

UTILITIES

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

ELECTRIC:
OHIO EDISON COMPANY
6326 LAKE AVENUE
ELYRIA, OHIO 44035
(440) 324-0231
ATTN: CHUCK BLAZINA

CABLE TV:
ADELPHIA
8383 BARARIA ROAD
MACEDONIA, OHIO 44056
(330) 963-3620
ATTN: MARK HOEFLE

TELEPHONE:
VERIZON
6223 NORWALK ROAD
MEDINA, OHIO 44256
(330) 722-9586
ATTN: MIKE THOMPSON

GAS:
COLUMBIA GAS OF OHIO
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OHIO 44130
(330) 891-2455
ATTN: DAVE GULYAS

WATER AND SANITARY:
MEDINA COUNTY SANITARY
791 WEST SMITH ROAD
MEDINA, OHIO
(330) 723-9585
ATTN: DALE CLARK

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. THE CONTRACTOR SHALL VERIFY OWNERSHIP AND LOCATION PRIOR TO THE START OF CONSTRUCTION.

CONTINGENCY QUANTITIES

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

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 10:00pm AND 7:00am. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE 2002 CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE APPENDIX OF ASTM E 380 SHALL BE UTILIZED FOR ANY ADDITIONAL CONVERSION FACTORS REQUIRED. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

CLEARING AND GRUBBING

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

SIZES	NO. TREES	NO. STUMPS	TOTAL
15"	38	2	40
30"	2	0	2
48"	0	0	0
60"	0	0	0

MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 57.

ITEM 204 - PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SEEDING AND MULCHING

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

659, SEEDING AND MULCHING	18.037 SQ. YD.
659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	2005 CU. YD.
659, COMMERCIAL FERTILIZER	2.43 TON
659, LIME	3.73 ACRE
659, INTER-SEEDING	902 SQ. YD.
659, WATER	100 M. GAL.

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

EROSION CONTROL

ITEMS 601 AND 670 PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS AND TURF OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ITEM 670. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THESE ITEMS SHALL MEET THE REQUIREMENT OF 108.04.

STORM WATER POLLUTION PREVENTION PLAN (SWAPP) AND TEMPORARY EROSION CONTROL (TEC)

THE CONTRACTOR SHALL PREPARE A SWAPP AND CALCULATE TEC QUANTITIES ACCORDING TO SUPPLEMENTAL SPECIFICATIONS 832 AND 833. PAYMENT SHALL BE MADE UNDER THE FOLLOWING PAY ITEMS:

ITEM 832 EROSION CONTROL	1 LUMP
ITEM 832 STORM WATER POLLUTION PREVENTION PLAN	1 EACH

CALCULATED TM
CHECKED PDG

GENERAL NOTES

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223GN.DGN 8/29/03 CEO,JDY,KH,RC

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

TREATED SEPTIC CONNECTIONS

TREATED SEPTIC FLOW MAY BE DISCHARGED INTO THE HIGHWAY DRAINAGE SYSTEM PROVIDED THE OWNER HAS ACQUIRED AN OFFICIAL PERMIT FROM MEDINA COUNTY.

IN EACH CASE WHERE A PERMIT HAS BEEN ISSUED FOR MAKING A TREATED SEPTIC CONNECTION INTO A HIGHWAY DRAINAGE CONDUIT, AN INSPECTION WELL SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DM-3.1.

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

603, 6" CONDUIT, TYPE C	100 FT.
604, INSPECTION WELL	2 EACH

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE 1 FOOT ABOVE THE FLOW LINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENT SHALL BE DETERMINED BY THE ENGINEER AND PAYMENTS SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

603 6" CONDUIT, TYPE E	100 FT.
603 6" CONDUIT, TYPE F	20 FT.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE OR OUTLETTING INTO ROADWAY DITCH. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 PS46 MIN.

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

603, 6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	50 FT.
603, 4" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	20 FT.
603, 6" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	20 FT.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD PORTIONS THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 407 - TACK COAT AND ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

407, TACK COAT	0.10 GAL. PER SQ. YARD
407, TACK COAT FOR INTERMEDIATE COURSE	0.04 GAL. PER SQ. YARD

SUBGRADE TREATMENT

THESE NOTES SHALL GOVERN THE TREATMENT OF THE FOUNDATION MATERIAL PRIOR TO THE PLACEMENT OF FILL MATERIAL AND THE SUBGRADE MATERIAL IN AREAS OF CUT. ITEM 204 PROOF ROLLING HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE IN IDENTIFYING UNSTABLE FOUNDATION OR SUBGRADE MATERIAL.

EXCEPT AS NOTED BELOW, ANY LOCALIZED UNSTABLE CONDITIONS ENCOUNTERED DURING FILL PLACEMENT CAN BE CORRECTED WITH THE USE OF GEOTEXTILE FABRIC AND GRANULAR MATERIAL INSTEAD OF ITEM 203 EMBANKMENT TO STABILIZE THESE AREAS. NO UNDERCUTS SHOULD BE NECESSARY. THE GEOTEXTILE FABRIC SHALL BE EXTENDED A MINIMUM OF TWO FEET BEYOND THE LIMITS OF THE UNSTABLE AREA AND A MINIMUM OF 12" OF GRANULAR EMBANKMENT, AS PER PLAN SHALL BE PLACED TO THE LIMITS OF THE GEOTEXTILE FABRIC.

PLACE THE GRANULAR EMBANKMENT, AS PER PLAN MATERIAL IN 8 INCH LOOSE LIFTS. THE LIFT THICKNESS MAY BE INCREASED DEPENDING ON THE STABILITY OF THE BOTTOM OF THE CUT OR FOUNDATION OF THE EMBANKMENT. INCREASE THE LIFT THICKNESS UP TO 24 INCHES TO OBTAIN STABILITY AT THE TOP OF THE LIFT.

DOZE, TRACK OR MANIPULATE THE MATERIAL TO MAXIMIZE THE DENSITY AND STABILITY. ONCE STABILITY IS ACHIEVED, COMPACT THE REMAINING AREAS TO A MAXIMUM DENSITY. THE ENGINEER WILL TEST THE COMPACTION BY TEST SECTION METHOD. THE MINIMUM COMPACTION FOR THE REMAINING AREAS IS 98% OF THE TEST SECTION MAXIMUM DRY DENSITY.

PLACE THE GEOTEXTILE FABRIC AT THE BOTTOM OF THE CUT OR ON THE FOUNDATION MATERIAL, AS REQUIRED. DO NOT PLACE THE GEOTEXTILE FABRIC WITHIN ONE FOOT OF THE OFFSET AND TO AN ELEVATION FROM ONE FOOT BELOW TO ANY ELEVATION ABOVE THOSE DESIGNATED FOR UNDERDRAINS . PLACE THE GEOTEXTILE FABRIC SMOOTH AND FREE OF TENSION OR WRINKLES. FOLD OR CUT THE GEOTEXTILE FABRIC TO CONFORM TO CURVES. OVERLAP A MINIMUM OF 18 INCHES AT THE ENDS AND SIDES. HOLD THE FABRIC IN PLACE WITH PINS OR STAPLES.

END DUMP THE MATERIAL ON THE FABRIC. DO NOT OPERATE THE EQUIPMENT DIRECTLY ON THE FABRIC. SPREAD THE END DUMPED MATERIAL MAINTAINING A MINIMUM LOOSE LIFT THICKNESS OF 12 INCHES.

NEW EMBANKMENT WILL BE CONSTRUCTED OVER EXISTING DITCHES, THEREFORE THESE AREAS SHOULD BE SPECIFICALLY CHECKED FOR SOFT AND WET SOIL CONDITIONS. UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS DESCRIBED BELOW FOR THE AREAS REQUIRING UNDERCUTTING.

THE FOLLOWING AREAS WILL REQUIRE UNDERCUTTING TO THE SPECIFIED DEPTH AND THE PLACEMENT OF GEOTEXTILE FABRIC AND GRANULAR EMBANKMENT, AS PER PLAN:

STATION 941+10 TO 947+00 - UNDERCUT TO ONE FOOT BELOW EXISTING GROUND OR SUBGRADE WHICHEVER IS LOWER.

STATION 955+00 TO 958+50 - UNDERCUT THREE FEET BELOW EXISTING GROUND

USE 1609 CY OF EXCAVATION, GEOTEXTILE FABRIC AND 1669 CY OF GRANULAR MATERIAL, AS PER PLAN IN THESE AREAS.

USE 150 CY OF EXCAVATION, GEOTEXTILE FABRIC AND 150 CY OF GRANULAR MATERIAL, AS PER PLAN IN OTHER AREAS FOUND UNSUITABLE BY THE ENGINEER.

FOR THESE AREAS AND ANY UNSTABLE AREA IDENTIFIED DURING PROOF ROLLING, THE GEOTEXTILE FABRIC USED SHALL BE AS PER 712.09 TYPE D OF THE 2002 CMS.

GRANULAR MATERIAL, AS PER PLAN SHALL BE TYPE B AND SHALL MEET THE REQUIREMENTS OF 703.16C (2) OF THE 2002 CMS.

BASIS OF PAYMENT: THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
203	CUBIC YARD	EXCAVATION, AS PER PLAN
203	CUBIC YARD	GRANULAR EMBANKMENT, AS PER PLAN
SPEC	SQUARE YARD	GEOTEXTILE FABRIC

ENVIRONMENTAL COMMITMENTS

TREE REMOVAL RESTRICTIONS:
THIS PROJECT IS WITHIN THE KNOWN SUMMER BREEDING RANGE OF THE FEDERAL ENDANGERED INDIANA BROWN BAT AND MAY IMPACT THAT SPECIES HABITAT. THE SUMMER ROOSTING AND BROOD REARING HABITAT OF THIS SPECIES IS IN LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING, OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES. TREE REMOVAL WILL ONLY BE DONE BETWEEN SEPTEMBER 16 AND APRIL 14 WHEN SPECIES IS NOT USING THEM.

THE SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF O.D.O.T.'S CONSTRUCTION AND MATERIAL SPECIFICATION, LOCATION AND DESIGN MANUAL AND STANDARD DRAWINGS WILL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

ITEM 202 - RAISED PAVEMENT MARKERS REMOVED FOR STORAGE

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR THE REMOVAL OF EXISTING RAISED PAVEMENT MARKERS AS PER 202.10:

202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE	30 EACH

CALCULATED TM CHECKED PDG

GENERAL NOTES

MED-3-17.82

223GN.DGN 6/12/02 CEO.JDY

ITEM 614 - MAINTAINING TRAFFIC

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON STATE ROUTE 3 AND 606, EXCEPT FOR A PERIOD NOT TO EXCEED 180 CONSECUTIVE CALENDAR DAYS, THROUGH TRAFFIC WILL BE DETOURED AS SHOWN ON SHEET 13. SEE ADDITIONAL SEQUENCE OF CONSTRUCTION REQUIREMENTS BELOW.

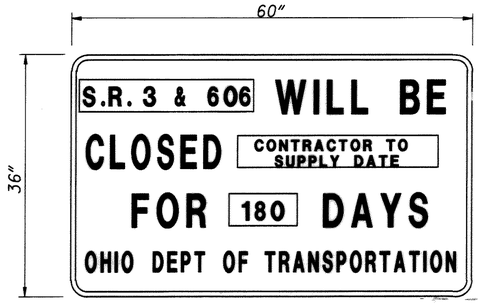
THE 180 CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AS AN ITEM 8 COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 180 CONSECUTIVE CALENDAR DAYS THAT THE ROADWAYS REMAIN CLOSED TO TRAFFIC, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 CONSTRUCTION ENGINEER IN WRITING A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE ANTICIPATED DATE FOR CLOSING THE ROADS. THE CONTRACTOR WILL PROVIDE, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE THE DETOUR SIGNING AS DETAILED ON SHEET NO. 13.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE APPROXIMATE WORK LIMITS OF THE PROJECT AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD CONSTRUCTION DRAWING MT-101.60M.

LOCAL TRAFFIC TO ALL PROPERTIES WITHIN THE PROJECT WORK LIMITS SHALL BE MAINTAINED AT ALL TIMES.

NOTICE OF CLOSURE SIGNS, AS DETAILED BELOW, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE ON BOTH S.R. 3 AND S.R. 606. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFFIC AND SHALL INCLUDE FURNISHING, ERECTING, MAINTAINING AND REMOVING THE SIGNS INCLUDING SUPPORTS.



OC-60B

SEQUENCE OF CONSTRUCTION:

PHASE I

1. PLACE DETOUR SIGNING FOR STATE ROUTES 3 & 606 TRAFFIC AS SHOWN ON DETOUR SIGNING PLAN, SHEET NO. 13 .
2. PLACE TRAFFIC COMPACTED SURFACE ON RIGHT SIDE OF ODESA DRIVE AND DRUMS AS SHOWN ON SHEET NO. 12 . PLACE TRAFFIC COMPACTED SURFACE ON LEFT SIDE OF STATE ROUTE 3, STA 940+50 TO 941+40 AS SHOWN ON SHEET NO. 12 .
3. CONSTRUCT FULL WIDTH PAVEMENT FOR STATE ROUTE 3, STA. 940+85 TO 944+59.72 AND CONSTRUCT ODESA DRIVE HALF WIDTH IN ACCORDANCE WITH THE CONSTRUCTION PLANS UP TO THE ASPHALT SURFACE COURSE.
4. EXTEND BOX CULVERT ACROSS STATE ROUTE 3 AND CONSTRUCT DRAINAGE SYSTEM ON SR 606 IN ACCORDANCE WITH THE CONSTRUCTION PLANS.

PHASE II

1. PLACE DRUMS ON ODESA DRIVE AS SHOWN ON SHEET 12 . PLACE TRAFFIC COMPACTED SURFACE ON LEFT SIDE OF ODESA DRIVE AND FOR RESIDENTIAL DRIVES ON STATE ROUTES 3 & 606 AS SHOWN ON SHEET 12 .
2. CONSTRUCT RIGHT SIDE PAVEMENT FOR ODESA DRIVE, AND FULL WIDTH PAVEMENT ON STATE ROUTE 3 STA 944+59.72 TO END OF PROJECT AND STATE ROUTE 606 STA 1+14.07 TO 11+11.64 IN ACCORDANCE WITH THE CONSTRUCTION PLANS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ABOVE:

410, TRAFFIC COMPACTED SURFACE, TYPE A OR B	20 CU. YD.
410, TRAFFIC COMPACTED SURFACE, TYPE C	689 CU. YD.
614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	10 CU. YD.
616, CALCIUM CHLORIDE	10 TON
616, WATER	4 M. GAL.

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

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

616, WATER	4 M. GAL.
616, CALCIUM CHLORIDE	10 TON

TEMPORARY WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE PAVEMENT MARKINGS AS PER THE REQUIREMENTS OF 614.10:

ITEM 614, WORK ZONE CENTER LINE CLASS II 0.75 MILE

THE TEMPORARY MARKINGS WILL BE NON-PERFORMED IF THE PERMAMENT MARKING ARE IN PLACE PRIOR TO OPENING THE ROAD TO THRU TRAFFIC.

DETOUR SIGNING

AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL COVER ALL PERMANENT SIGNING ON DETOUR ROUTES WHICH CONFLICTS WITH THE DETOUR SIGNING. THE PERMANENT SIGNS SHALL BE UNCOVERED WHEN THE DETOUR IS REMOVED.

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CONSTRUCTION FOR THE ABOVE SECTIONS OF ROADWAY SHALL BE COMPLETED WITHIN ONE MAXIMUM 180 DAY CLOSURE TIME. THE 180 DAY ALLOWABLE CLOSURE TIME SPECIFIED IN THE MAINTENANCE OF TRAFFIC NOTES FOR EACH OF THE PARTS OF THIS PROJECT IS INTENDED TO REFER TO THE SAME 180 DAY CONSECUTIVE CALENDAR DAY PERIOD OF TIME. ALL DETOURS SHALL BE PLACED INTO EFFECT AND REMOVED SIMULTANEOUSLY.

NOTIFICATION OF PROPERTY OWNERS WITH THE CONSTRUCTION LIMITS

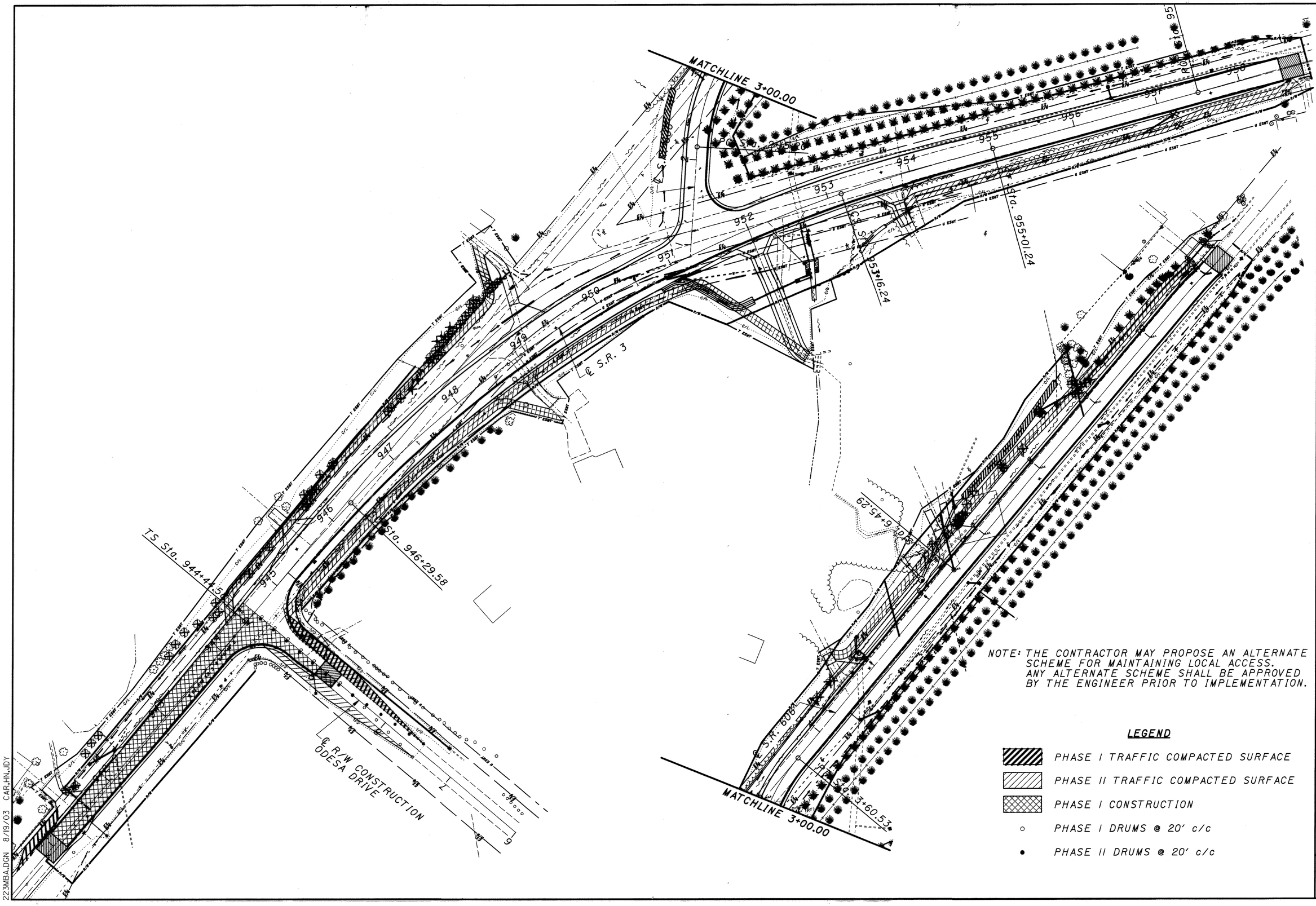
A MINIMUM OF 48 HOURS PRIOR TO THE TIME THE ROAD IS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL NOTIFY EACH RESIDENCE OF THE CLOSURE AND FURNISH, IN WRITING, HOW ACCESS TO THEIR PROPERTY WILL BE MAINTAINED DURING CONSTRUCTION.

CALCULATED TM CHECKED PDG

MAINTENANCE OF TRAFFIC GENERAL NOTES

MED-3-17.82

223MN.DGN 10/06/03 CEO,JDY,RC



NOTE: THE CONTRACTOR MAY PROPOSE AN ALTERNATE SCHEME FOR MAINTAINING LOCAL ACCESS. ANY ALTERNATE SCHEME SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

LEGEND

- PHASE I TRAFFIC COMPACTED SURFACE
- PHASE II TRAFFIC COMPACTED SURFACE
- PHASE I CONSTRUCTION
- ○ PHASE I DRUMS @ 20' c/c
- ● PHASE II DRUMS @ 20' c/c

HORIZONTAL SCALE IN FEET
0 25 50 100

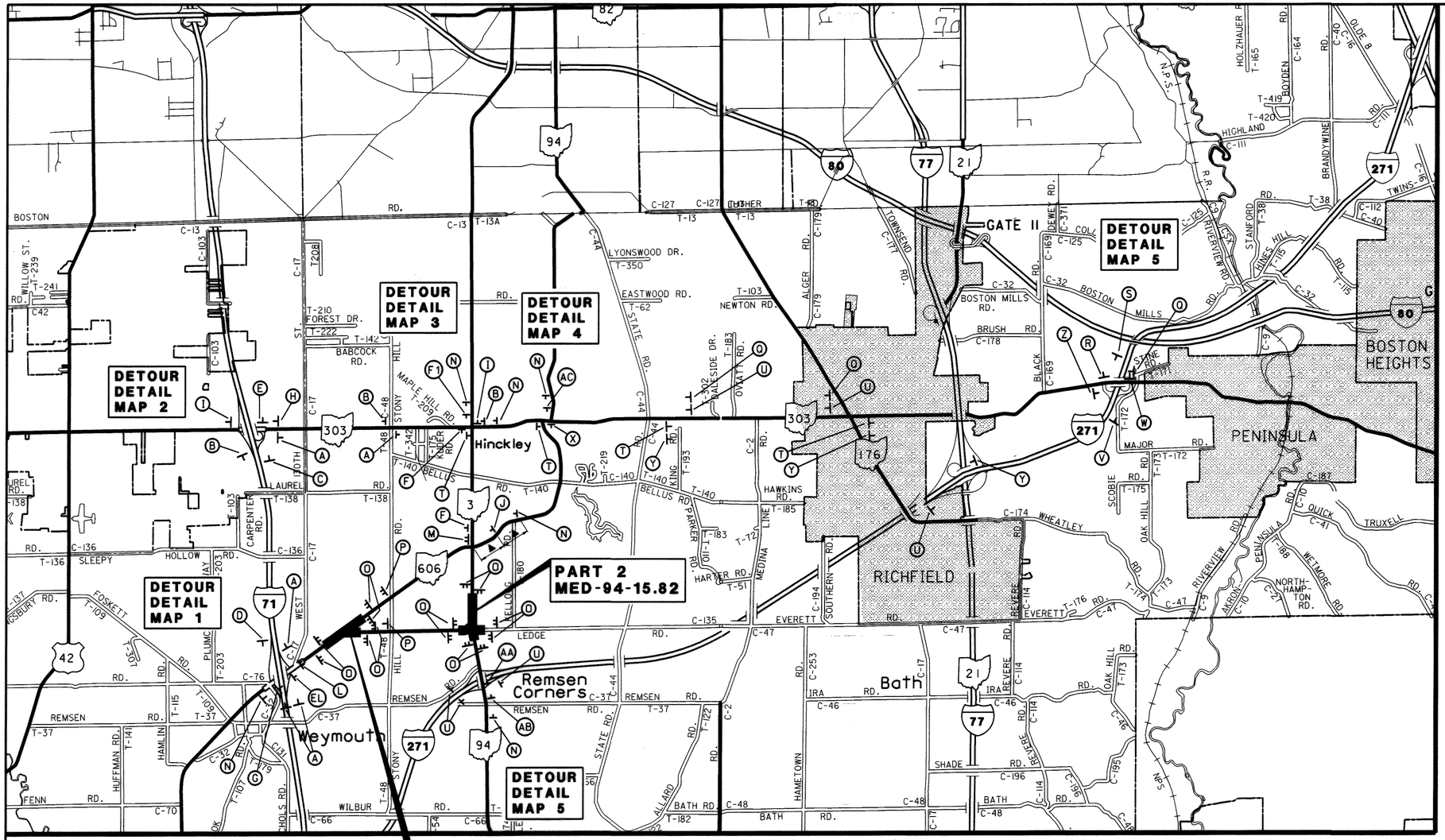
CALCULATED TM
CHECKED EEL

MAINTENANCE OF TRAFFIC SCHEMATIC

MED-3-17.82

12
66

223MBA.DGN 8/19/03 CAR,HN,JDY

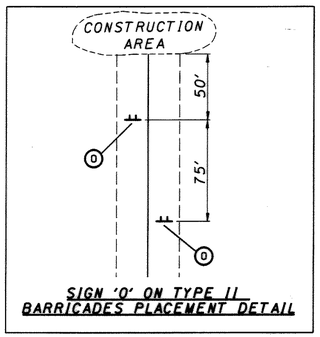


LEGEND

PORTION TO BE IMPROVED

▲ 500'

DETOUR ROUTES			
	FROM	ALONG	TO
S.R. 3	S.R. 3 @ I.R. 71	I.R. 71	S.R. 303
	S.R. 303 @ I.R. 71	S.R. 303	S.R. 3
S.R. 606 NORTHBOUND	S.R. 3 @ I.R. 71	I.R. 71	S.R. 303
	S.R. 303 @ I.R. 71	S.R. 303	S.R. 3
S.R. 94	S.R. 94 @ I.R. 271	I.R. 271	S.R. 303
	S.R. 303 @ I.R. 271	S.R. 303	S.R. 94
TO I.R. 271 NORTH	S.R. 303 @ S.R. 94	S.R. 303	I.R. 271
TO I.R. 71 NORTH	I.R. 271 @ S.R. 303	S.R. 303	I.R. 71



SIGN 'O' ON TYPE II BARRICADES PLACEMENT DETAIL

NOTE: THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND REMOVE THE SIGNING. PAYMENT FOR ALL MATERIAL, LABOR, AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

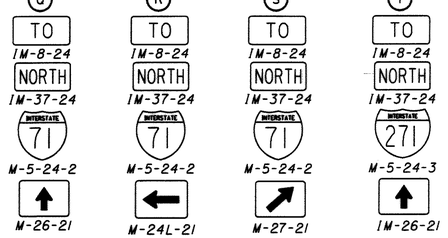
L — ON TYPE III BARRICADES — ROAD CLOSED * MILES AHEAD LOCAL TRAFFIC ONLY — R-76A — DETOUR — OC-14L-48

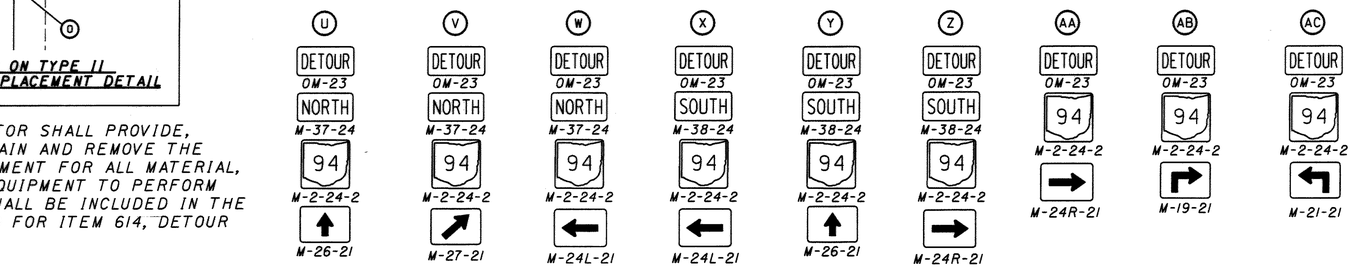
M — ON TYPE III BARRICADES — ROAD CLOSED * MILES AHEAD LOCAL TRAFFIC ONLY — R-76A — DETOUR — OC-14R-48

N — DETOUR AHEAD — OW-127-36

O — ON TYPE III BARRICADES — ROAD CLOSED — R-75-48

P — ON TYPE III BARRICADES — ROAD CLOSED * MILES AHEAD LOCAL TRAFFIC ONLY



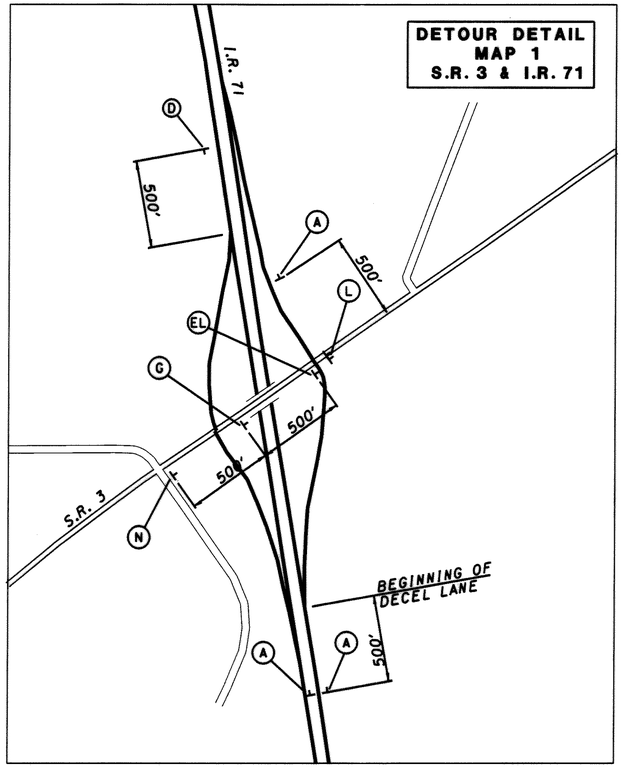


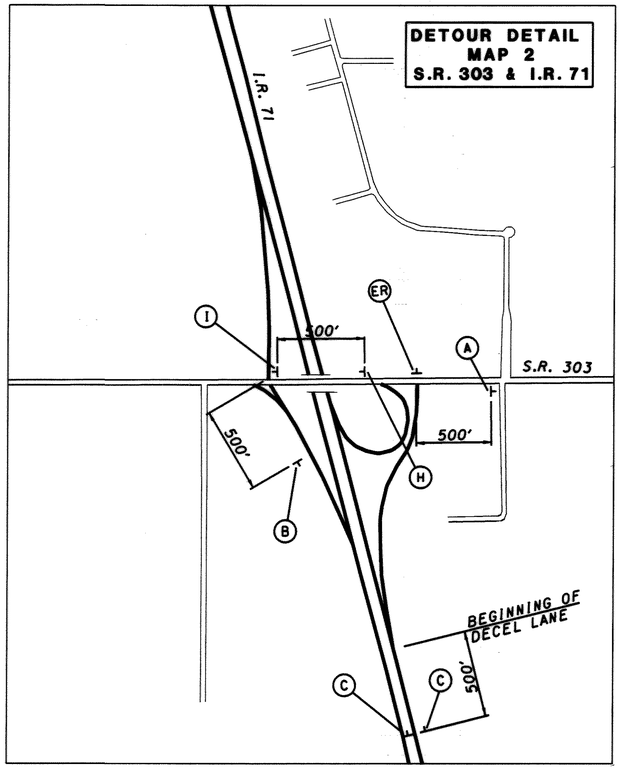
MAINTENANCE OF TRAFFIC DETOUR SIGNING PLAN

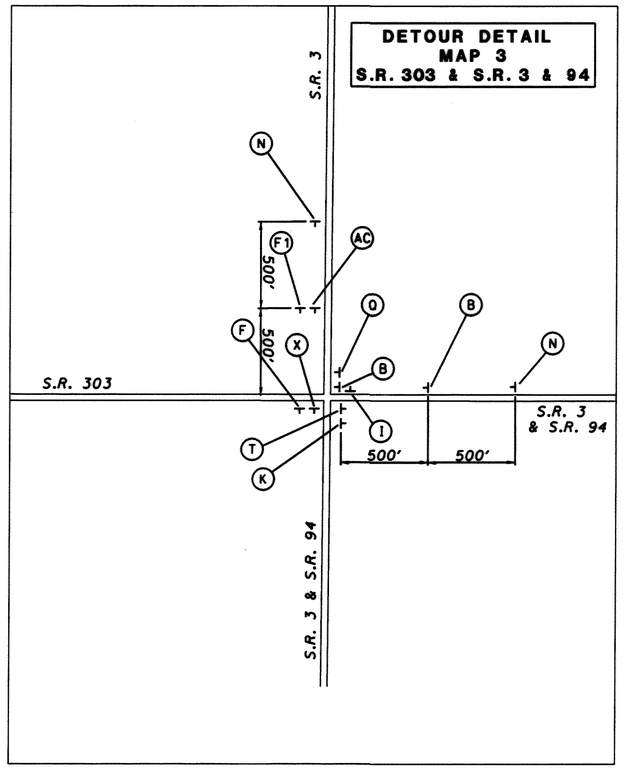
MED-3-17.82

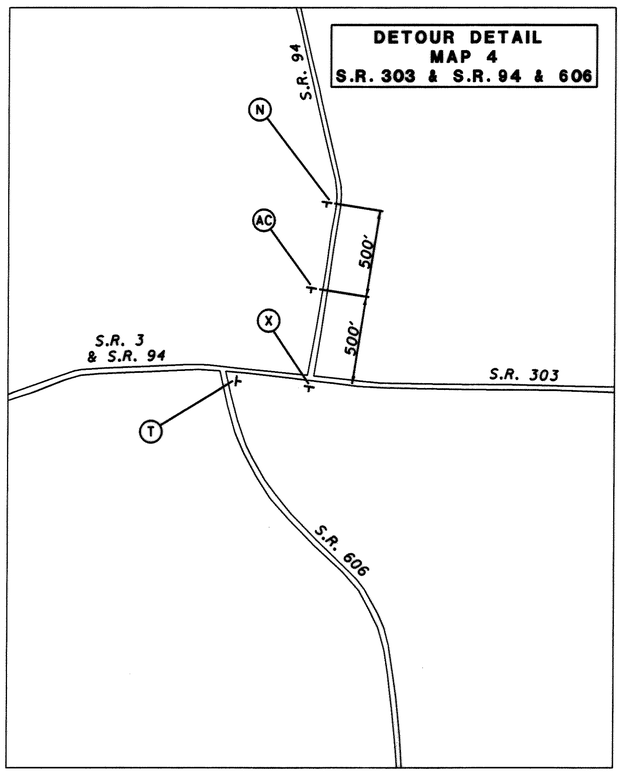
13
66

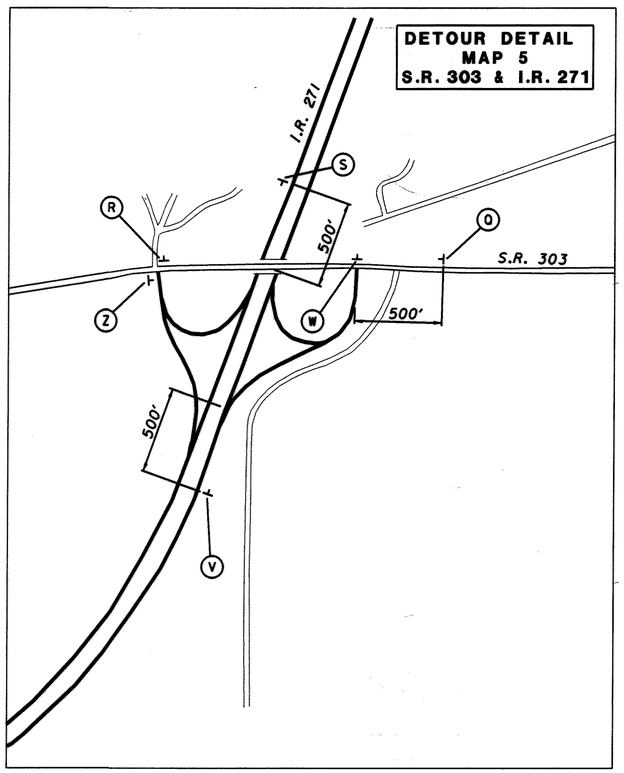
223MDLDGN 6/14/02 TM-JDY

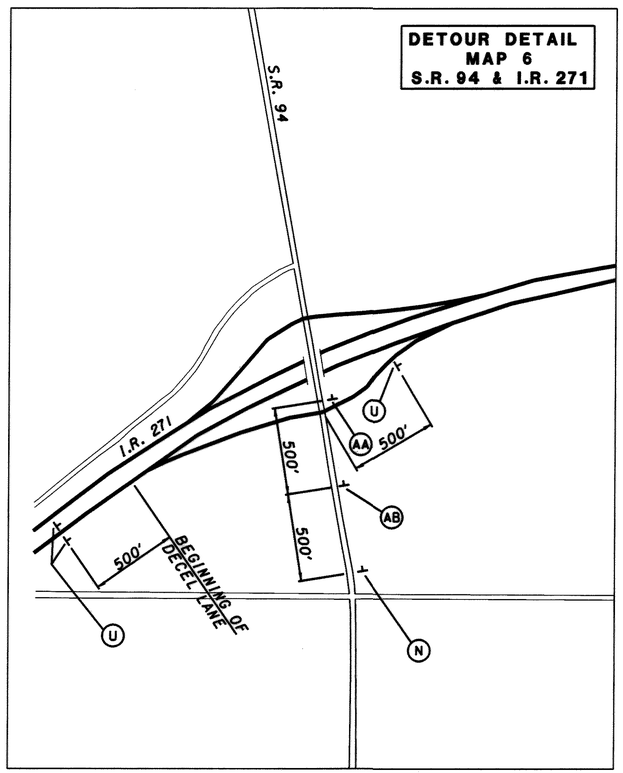












NOTE: *FOR SIGNING LEGEND SEE SHEET NO. 13A.*

HORIZONTAL SCALE IN FEET
0 250 500 1000

CALCULATED | CHECKED

MAINTENANCE OF TRAFFIC DETOUR SIGNING PLAN

MED-3-17.82

13A
66

223MD2.DGN 10/1/03 SAM

SHEET NUMBER																						ITEM	ITEM EXT.	PROJECT TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	9	10		17	19	20	21	22	23	24	37	38	39	40	41	42	49	51			57						
																										ROADWAY	
	LUMP																					201	11000	LUMP		CLEARING AND GRUBBING	
100				3909																		202	23000	4009	SQ YD	PAVEMENT REMOVED	
				273																		202	23500	273	SQ YD	WEARING COURSE REMOVED	
								36	92	8		24			186	41						202	35100	387	FT	PIPE REMOVED, 24" AND UNDER	
															155							202	38000	155	FT	GUARDRAIL REMOVED	
		30																				202	54100	30	EACH	RAISED PAVEMENT MARKER REMOVED FOR STORAGE	
									2													202	58100	2	EACH	CATCH BASIN REMOVED	
										1					1							202	58500	2	EACH	CATCH BASIN ABANDONED	
						141	377	93	164	206					93							202	75000	1074	FT	FENCE REMOVED	
															10							202	98200	10	FT	REMOVAL MISC.: PORTABLE CONCRETE BARRIER	
								94			9789		267	34			1415					203	10000	11599	CU YD	EXCAVATION	
											1609											203	10001	1609	CU YD	EXCAVATION, AS PER PLAN	10
								53			8517		4	19			4838					203	20000	13431	CU YD	EMBANKMENT	
											1669											203	35001	1669	CU YD	GRANULAR EMBANKMENT, AS PER PLAN	10
680				13,197																		204	10000	13877	SQ YD	SUBGRADE COMPACTION	
				5																		204	45000	5	HOUR	PROOF ROLLING	
																					4	604	38500	4	EACH	MONUMENT ASSEMBLY	
																					1	604	40500	1	EACH	REFERENCE MONUMENT	
				3092																		SPEC	69012010	3092	SQ YD	GEOTEXTILE FABRIC	10
																										EROSION CONTROL	
																		21				601	32104	21	CU YD	ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER	
																1		1				601	32204	2	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER	
																		120				601	38000	120	FT	PAVED GUTTER, TYPE 1-4	
	2																					659	00100	2	EACH	SOIL ANALYSIS TEST	
	2005							42						15								659	00300	2062	CU YD	TOPSOIL	
	18,037																					659	10000	18,037	SQ YD	SEEDING AND MULCHING	
	902																					659	15000	902	SQ YD	INTER-SEEDING	
	2.43																					659	20000	2.43	TON	COMMERCIAL FERTILIZER	
	3.73																					659	31000	3.73	ACRE	LIME	
	100																					659	35000	100	M GAL	WATER	
														56	70	75						670	00700	201	SQ YD	DITCH EROSION PROTECTION	
	1																					832	10000	1	EACH	STORM WATER POLLUTION PREVENTION PLAN	
	LUMP																					832	20000	LUMP		EROSION CONTROL	

CALCULATED TM
CHECKED EEL

GENERAL SUMMARY

MED-3-17.82

223GG.DGN 10/06/03 JDY.RC

SHEET NUMBER																							ITEM	ITEM EXT.	PROJECT TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6		10		17		20	21	22	23	24		38		40	41	42		51	52									
																											DRAINAGE	
														0.4	1.2			3.0					602	20000	4.6	CU YD	CONCRETE MASONRY	
																10							603	00406	10	FT	4" CONDUIT, TYPE F	
		20																					603	00406	20	FT	4" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	
		100				8																	603	01100	108	FT	6" CONDUIT, TYPE C	
		50																					603	01100	50	FT	6" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION	
		100																					603	01400	100	FT	6" CONDUIT, TYPE E	
		20				48			54	10		35			20								603	01500	187	FT	6" CONDUIT, TYPE F	
		20																					603	01500	20	FT	6" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	
						38			16	21		208			59	301							603	04600	643	FT	12" CONDUIT, TYPE C	
								46		44								54					603	04900	144	FT	12" CONDUIT, TYPE D	
															17								603	06100	17	FT	15" CONDUIT, TYPE C	
														146	97								603	07600	243	FT	18" CONDUIT, TYPE C	
									46														603	07900	46	FT	18" CONDUIT, TYPE D	
															15								603	10600	15	FT	24" CONDUIT, TYPE C	
															94								603	13600	94	FT	30" CONDUIT, TYPE C	
															24								603	16600	24	FT	36" CONDUIT, TYPE C	
															115								603	24000	115	FT	60" CONDUIT, TYPE C	
																		36					603	94700	36	FT	6' x 4' CONDUIT, TYPE A, 706.05	
												1											604	00400	1	EACH	CATCH BASIN, NO. 3	
						1				1					4	3							604	04500	9	EACH	CATCH BASIN, NO. 2-2B	
															1								604	04900	1	EACH	CATCH BASIN, NO. 2-3	
																1							604	09000	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
									1						2								604	09500	3	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
						1			2	1					1								604	31500	5	EACH	MANHOLE, NO. 3	
						1			1			1											604	36600	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	
		2																					604	37000	2	EACH	INSPECTION WELL	
																			1				604	37501	1	EACH	JUNCTION CHAMBER, AS PER PLAN	52,53
						89	360	400	400	540		77		273	700	624							605	11110	3463	FT	6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	
						272						50			100								605	13410	422	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP	
																											PAVEMENT	
				1307																			301	46000	1307	CU YD	ASPHALT CONCRETE BASE, PG64-22	
203				2170																			304	20000	2373	CU YD	AGGREGATE BASE	
				28																			407	10000	28	GALLON	TACK COAT	
				489																			407	14000	489	GALLON	TACK COAT FOR INTERMEDIATE COURSE	
256				5208																			408	10000	5464	GALLON	PRIME COAT	
				594																			448	46050	594	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
				434																			448	47020	434	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	
36																							448	48020	36	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (DRIVEWAYS)	
41																							452	10000	41	SQ YD	6" NON-REINFORCED CONCRETE PAVEMENT	
				645																			609	26000	645	FT	CURB, TYPE 6	
																											WATER WORK	
							1		1														638	10400	2	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
							3		3														638	10800	6	EACH	VALVE BOX ADJUSTED TO GRADE	

CALCULATED TM CHECKED EEL

GENERAL SUMMARY

MED-3-17.82

223GG.DGN 8/28/03 JDY,RC

SHEET NUMBER																						ITEM	ITEM EXT.	PROJECT TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
			11																55	56								
																										TRAFFIC CONTROL	
																			79			621	00100	79	EACH	RPM	
																				58		630	02100	58	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
																				131		630	03100	131	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
																				26		630	08510	26	FT	STREET NAME SIGN SUPPORT, NO. 2 POST	
																				102		630	80100	102	SQ FT	SIGN, FLAT SHEET, TYPE G	
																				4		630	80500	4	EACH	SIGN, DOUBLE FACED, STREET NAME, TYPE G	
																				1		630	80600	1	EACH	SIGN, DOUBLE FACED, MILE MARKER, TYPE G	
																				45		630	85000	45	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	
																				24		630	86002	24	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
																			1.10			642	00102	1.10	MILE	EDGE LINE, TYPE 2	
																			0.75			642	00302	0.75	MILE	CENTER LINE, TYPE 2	
																			250			644	00400	250	FT	CHANNELIZING LINE	
																			59			644	00500	59	FT	STOP LINE	
																			890			644	00700	890	FT	TRANSVERSE LINE	
																			2			644	01300	2	EACH	LANE ARROW	
																			1			644	01410	1	EACH	WORD ON PAVEMENT, 96"	
																										MAINTENANCE OF TRAFFIC	
			20																			410	12000	20	CU YD	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
			689																			410	13000	689	CU YD	TRAFFIC COMPACTED SURFACE, TYPE C	
			LUMP																			614	12420	LUMP		DETOUR SIGNING	
			10																			614	13000	10	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			0.75																			614	21400	0.75	MILE	WORK ZONE CENTER LINE, CLASS II	
			8																			616	10000	8	M GAL	WATER	
			20																			616	20000	20	TON	CALCIUM CHLORIDE	
																						614	11000	LUMP		MAINTAINING TRAFFIC	
																						619	16010	9	MONTH	FIELD OFFICE, TYPE B	
																						623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
																						624	10000	LUMP		MOBILIZATION	

CALCULATED TM
CHECKED EEL

GENERAL SUMMARY

MED-3-17.82

223GG.DGN 10/06/03 RC,JDY,RC

LINE NUMBER	CALCULATIONS	QUANTITY
	202 WEARING COURSE REMOVED	
1	STA. 940+85 TO STA. 941+10, S.R.3 : 25' X 26.8' AVG.	= 670.0 SQ. FT.
2	STA. 958+50 TO STA. 958+75, S.R.3 : 25' X 26.4' AVG.	= 660.0 SQ. FT.
3	STA. 11+11.64 TO STA. 11+36.64, S.R.606 : 25' X 24.8' AVG.	= 620.0 SQ. FT.
4	STA. 8+75 TO STA. 9+00 ODESA DR. : 25' X 20.0' AVG.	= 500.0 SQ. FT.
5	SUM OF LINES 1 TO 4 :	= 2,450.0 SQ. FT.
6	FROM LINE 5 : 2450.0 SQ. FT. ÷ 9	= 272.2 SQ. YD.
	USE	**273 SQ. YD.**
	407 TACK COAT (@ 0.1 GAL./SQ. YD.)	
7	FROM LINE 6 : 272.2 SQ. YD. X 0.1	= 27.2 GAL.
	USE	**28 GAL.**
	PAVEMENT AREAS	
8	STA. 941+10 TO STA. 941+40, S.R.3 : 30' X 24'	= 720.0 SQ. FT.
9	STA. 941+40 TO STA. 948+00, S.R.3 : 660' X (24' + 36') / 2	= 19,800.0 SQ. FT.
10	STA. 948+00 TO STA. 952+25, S.R.3 : 425' X 36'	= 15,300.0 SQ. FT.
11	STA. 952+25 TO STA. 957+50, S.R.3 : 525' X (36' + 26.51') / 2	= 16,408.9 SQ. FT.
12	STA. 957+50 TO STA. 958+50, S.R.3 : 100' X (26.51' + 26.36') / 2	= 2,643.5 SQ. FT.
13	STA. 1+14.07 TO STA. 10+92.50, S.R.606 : 978.43' X 24'	= 23,482.3 SQ. FT.
14	STA. 10+92.50 TO STA. 11+11.64, S.R.606 : 19.14' X (24' + 24.35') / 2	= 462.7 SQ. FT.
15	ADDITIONAL AREA - S.R.3 & S.R.606 RADIUS RETURNS : COMPUTER AREA	= 889.0 SQ. FT.
16	STA. 9+00 TO STA. 9+25, ODESA DRIVE : 25' X (20.02' + 24') / 2	= 550.3SQ. FT.
17	STA. 9+25 TO STA. 9+88, ODESA DRIVE : 63' X 24'	= 1,512.0 SQ. FT.
18	ADDITIONAL AREA - S.R.3 & ODESA DRIVE RADIUS RETURNS : COMPUTER AREA	= 1,068.0 SQ. FT.
19	SUM OF LINES 8 TO 18 :	= 82,836.7 SQ. FT.
	PAVED SHOULDER AREAS	
20	STA. 939+50 TO STA. 941+10, S.R.3 LT. & RT. : 2 X 160' X 3' AVG.	= 960.0 SQ. FT.
21	STA. 941+10 TO STA. 950+97.26, S.R.3 LT. : 987.26' X 4'	= 3,949.0 SQ. FT.
22	STA. 952+08.34 TO STA. 958+00, S.R.3 LT. : 591.66' X 4'	= 2,366.6 SQ. FT.
22A	STA. 958+00 TO STA. 958+50, S.R.3 LT. : 50' X (4' + 0') / 2	= 100.0 SQ. FT.
23	STA. 941+10 TO STA. 943+98.23, S.R.3 RT. : 288.23' X 4'	= 1,152.9 SQ. FT.
24	STA. 945+21.53 TO STA. 950+75, S.R.3 RT. : 553.47' X 10'	= 5,534.7 SQ. FT.
25	STA. 950+75 TO STA. 951+75, S.R.3 RT. : 100' X (10' + 4') / 2	= 700.0 SQ. FT.
26	STA. 951+75 TO STA. 958+00, S.R.3 RT. : 625' X 4'	= 2,500.0 SQ. FT.
26A	STA. 958+00 TO STA. 958+50, S.R.3 RT. : 50' X (4' + 0') / 2	= 100.0 SQ. FT.
27	STA. 1+35.69 TO STA. 11+11.64, S.R.606 LT. : 975.95' X 4'	= 3,903.8 SQ. FT.
28	STA. 1+78.70 TO STA. 11+11.64, S.R.606 RT. : 932.94' X 4'	= 3,731.8 SQ. FT.
29	ADD FOR S.R.3 & S.R.606 RADIUS RETURNS : 122.66' X 4'	= 490.6 SQ. FT.
30	STA. 9+00 ODESA DR. LT. TO STA. 943+98.23, S.R.3 RT. : 116.49' X 4'	= 466.0 SQ. FT.
31	STA. 8+97.21 TO STA. 9+09.37, ODESA DR. RT. : 12.16' X (0 + 11.04) / 2	= 67.1 SQ. FT.
31A	STA. 9+09.37 TO STA. 9+25.00, ODESA DR. RT. : 15.63' X (11.04 + 10.00) / 2	= 164.4 SQ. FT.
31B	STA. 9+25.00 TO STA. 9+38.04, ODESA DR. RT. : 13.04' X 10.00'	= 130.4 SQ. FT.
32	STA. 9+38.04 ODESA DR. RT. TO STA. 945+21.53 S.R.3 RT. : 70.40' X 10'	= 704.0 SQ. FT.
33	SUM OF LINES 20 TO 32 :	=27,021.3 SQ. FT.
	448 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	
34	SUM OF LINES 5, 19 & 33:	= 112,308.0 SQ. FT.
35	FROM LINE 34 : 112,308.0 SQ. FT. X 1¼" / 12 ÷ 27	= 433.29 CU. YD.
	USE	**434 CU. YD.**
	407 TACK COAT FOR INTERMEDIATE COURSE (@ 0.04 GAL. / SQ. YD.)	
36	FROM LINES 19 & 33 :	= 109,858.0 SQ. FT.
36A	FROM LINE 36 : 109,858.0 SQ. FT. ÷ 9 X 0.04	= 488.26 GAL.
	USE	**489 GAL.**
	448 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
37	FROM LINES 19 & 33 :	= 109,858.0 SQ. FT.
37A	FROM LINE 37 : 109,858.0 SQ. FT. X 1¾" / 12 ÷ 27	= 593.37 CU. YD.
	USE	**594 CU. YD.**
	301 5" ASPHALT CONCRETE BASE, PG64-22	
38	FROM LINE 19 :	= 82,836.7 SQ. FT.
39	ADD FOR EDGE COURSE : TOTAL LENGTH LINES 21 TO 32 : 5509.92' X 0.33'	= 1,818.3 SQ. FT.
40	SUM OF LINES 38 & 39 :	= 84,655.0 SQ. FT.
41	FROM LINE 40 : 84,655.0 SQ. FT. X 5" / 12 ÷ 27	= 1,306.4 CU. YD.
	USE	**1,307 CU. YD.**
	304 6" AGGREGATE BASE	
42	FROM LINE 19 :	= 82,836.7 SQ. FT.
43	ADD FOR PAVEMENT EDGE COURSE : TOTAL LENGTH LINES 21 TO 32 : 5509.92' X 1.33'	= 7,328.2 SQ. FT.
44	DEDUCT FOR NON-UNDERDRAIN AREA:	
45	STA. 943+25 TO STA. 950+97.26 LT. S.R. 3 : 772.26' x 6" / 12	= -386.1 SQ. FT.
46	STA. 951+92.50 TO STA. 956+50 LT. S.R. 3 : 457.50' x 6" / 12	= -228.8 SQ. FT.
47	STA. 1+35.69 TO STA. 4+00.00 LT. S.R. 606 : 264.31' x 6" / 12	= -132.2 SQ. FT.
48	DEDUCT FOR S.R. 3 & S.R. 606 RADIUS RETURN : 51.39' x 6" / 12	= -25.7 SQ. FT.
49	SUM OF LINES 42 TO 48 (304 UNDER PAVEMENT) :	= 89,392.1 SQ. FT.
50	FROM LINE 49 : 89,392.1 SQ. FT. X 6" / 12 ÷ 27	= 1,655.4 CU. YD.
51	FROM LINE 33 :	= 27,021.3 SQ. FT.

LINE NUMBER	CALCULATIONS	QUANTITY
52	DEDUCT PAVEMENT EDGE COURSE, LINE 39 :	= -1,818.3 SQ. FT.
53	ADD FOR SHOULDER EDGE COURSE :	
	TOTAL LENGTH LINES 20 TO 23 AND 25 TO 30 : 5,160.19' X 0.50'	= 2,580.1 SQ. FT.
54	SUM OF LINES 51 TO 53 (304 UNDER SHOULDER) :	= 27,783.1 SQ. FT.
55	FROM LINE 54 : 27,783.1 SQ. FT. X 6" / 12 ÷ 27	= 514.5 CU. YD.
56	SUM OF LINES 50 & 55 :	= 2,169.9 CU. YD.
	USE	**2,170 CU. YD.**
	408 PRIME COAT (@ 0.4 GAL/ SQ. YD.)	
57	SUM OF LINES 49 & 54:	= 117,175.2 SQ. FT.
58	117,175.2 SQ. FT. / 9 x 0.4	= 5,207.8 GAL.
	USE	**5,208 GAL.**
	204 SUBGRADE COMPACTION	
59	TOTAL PAVEMENT & PAVED SHOULDER AREAS, LINES 19 & 33 :	= 109,858.0 SQ. FT.
60	ADD FOR EDGE COURSE, : TOTAL LENGTH LINES 21 TO 32 : 5509.92' X 1.50'	= 8,264.9 SQ. FT.
60A	DEDUCT FOR CURB LINE 75A : 644.7 X 1.00'	= 644.7 SQ. FT.
61	TOTAL LINES 59, 60 & 60A :	= 118,767.6 SQ. FT.
62	FROM LINE 61 : 118,767.6 SQ. FT. ÷ 9	= 13,196.4 SQ. YD.
	USE	**13,197 SQ. YD.**
	204 PROOF ROLLING	
63	204 SUBGRADE COMPACTION AREA, LINE 62 :	= 13,196.4 SQ. YD.
64	FROM LINE 63 : 13,196.4 SQ. YD. X 1 HOUR / 3000 SQ. YD.	= 4.4 HOURS
	USE	**5 HOURS**
	SPECIAL - GEOTEXTILE FABRIC	
65	STA. 941+10 TO STA. 941+40, S.R. 3: 30' x 24.67'	= 740.1 SQ. FT.
66	STA. 941+40 TO STA. 943+25, S.R. 3: 185' x (24.67' + 28.02') / 2	= 4,873.8 SQ. FT.
67	STA. 943+25 TO STA. 947+00, S.R. 3: 375' x (28.69' + 35.51') / 2	= 12,037.5 SQ. FT.
68	STA. 955+00 TO STA. 956+50, S.R. 3: 150' x (32.36' + 29.65') / 2	= 4,650.8 SQ. FT.
69	STA. 956+50 TO STA. 957+50, S.R. 3: 100' x (28.98' + 27.17') / 2	= 2,807.5 SQ. FT.
70	STA. 957+50 TO STA. 958+50, S.R. 3 : 100' x (27.17' + 27.03') / 2	= 2,710.0 SQ. FT.
71	SUM OF LINES 65 TO 70:	= 27,819.7 SQ. FT.
72	FROM LINE 71 : 27,819.7 SQ. FT. / 9	= 3,091.1 SQ. YD.
	USE	**3,092 SQ. YD.**
	609 CURB, TYPE 6	
73	STA. 9+09.37 TO STA. 9+38.04, ODESA DRIVE RT.	= 28.7 FT.
74	STA. 9+38.04 ODESA DRIVE RT. TO STA. 945+21.53 S.R. 3 RT. : 89°38'01" / 360° X 3.14 X 40 X 2	= 62.5 FT.
75	STA. 945+21.53 TO STA. 950+75 S.R. 3 RT.	= 553.5 FT.
75A	SUM OF LINES 73 TO 75 :	= 644.7 FT.
	USE	**645 FT.**
	202 PAVEMENT REMOVED	
76	STA. 941+10 TO STA. 958+50, S.R.3 : 1740' X 20' WIDE ÷ 9	= 3,866.7 SQ. YD.
76A	STA. 944+26 TO STA. 944+89, S.R.3 : 63' X 6' WIDE ÷ 9	= 42.0 SQ. YD.
76B	SUM OF LINES 76 & 76A :	= 3,908.7 SQ. YD.
	USE	**3,909. SQ. YD.**
	ITEMS CARRIED TO THE GENERAL NOTES	
	659 SEEDING AND MULCHING	
77	TOTAL FROM SHEET 22	= 690 SQ. YD.
78	TOTAL FROM SHEET 37	= 11,496 SQ. YD.
79	TOTAL FROM SHEET 39	= 318 SQ. YD.
80	TOTAL FROM SHEET 40	= 263 SQ. YD.
81	TOTAL FROM SHEET 49	= 5,270 SQ. YD.
82	TOTAL CARRIED TO GENERAL NOTES	= 18,037 SQ. YD.
	ITEM 659 - SOIL ANALYSIS TEST	
83	FROM LINE 82 : 18,037 SQ YD / 4840 SY/ACRE/ 10 - TOTAL ITEM 659	= 0.37 EACH
	* USE	**2 EACH**
	ITEM 659 - TOPSOIL (4" THICK)	
84	FROM LINE 82 : 18,037 SQ YD x 4 IN/ 36 YD - TOTAL ITEM 659	= 2,004.11 CU. YD.
	* USE	= **2,005 CU. YD.**
	ITEM 659 - COMMERCIAL FERTILIZER	
85	FROM LINE 82 : 18,037 SQ YD x 9 SF/SY x 30 LBS PER 1000 SQ FT / 2000 (LB/TON) - TOTAL ITEM 659	= 2.43 TON
	* USE	= **2.43 TON**
	ITEM 659 - LIME	
86	FROM LINE 82 : 18,037 SQ YD x 1 ACRE / 4840 SQ. YD. - TOTAL ITEM 659	= 3.73 ACRE
	* USE	= **3.73 ACRE**
	* QUANTITIES CARRIED TO GENERAL NOTES	

CALCULATED TM CHECKED EEL

CALCULATIONS

MED-3-17.82

223GCA.DGN 8/29/03 JDY,KH,RC

LINE NUMBER	CALCULATIONS	QUANTITY
	ITEM 659 - WATER (TWO APPLICATIONS)	
87	FROM LINE 82 : 18,037 SQ YD x 9 SF/SY x 600 M GAL PER 1,000,000 SQ FT = TOTAL ITEM 659	= 97.40 M GAL
	*** USE**	= **100 M GAL**
88	NOT USED	
	ITEM 659 - INTERSEEDING (5% OF PERMANENT SEEDED AREA)	
89	FROM LINE 82 : 18,037 SQ YD x 0.05 = TOTAL ITEM 659	= 901.85 SQ. YD.
	*** USE**	= **902 SQ. YD.**
	* QUANTITIES CARRIED TO THE GENERAL NOTES	

CALCULATED TM
CHECKED EEL

CALCULATIONS

MED-3-17.82

18
66

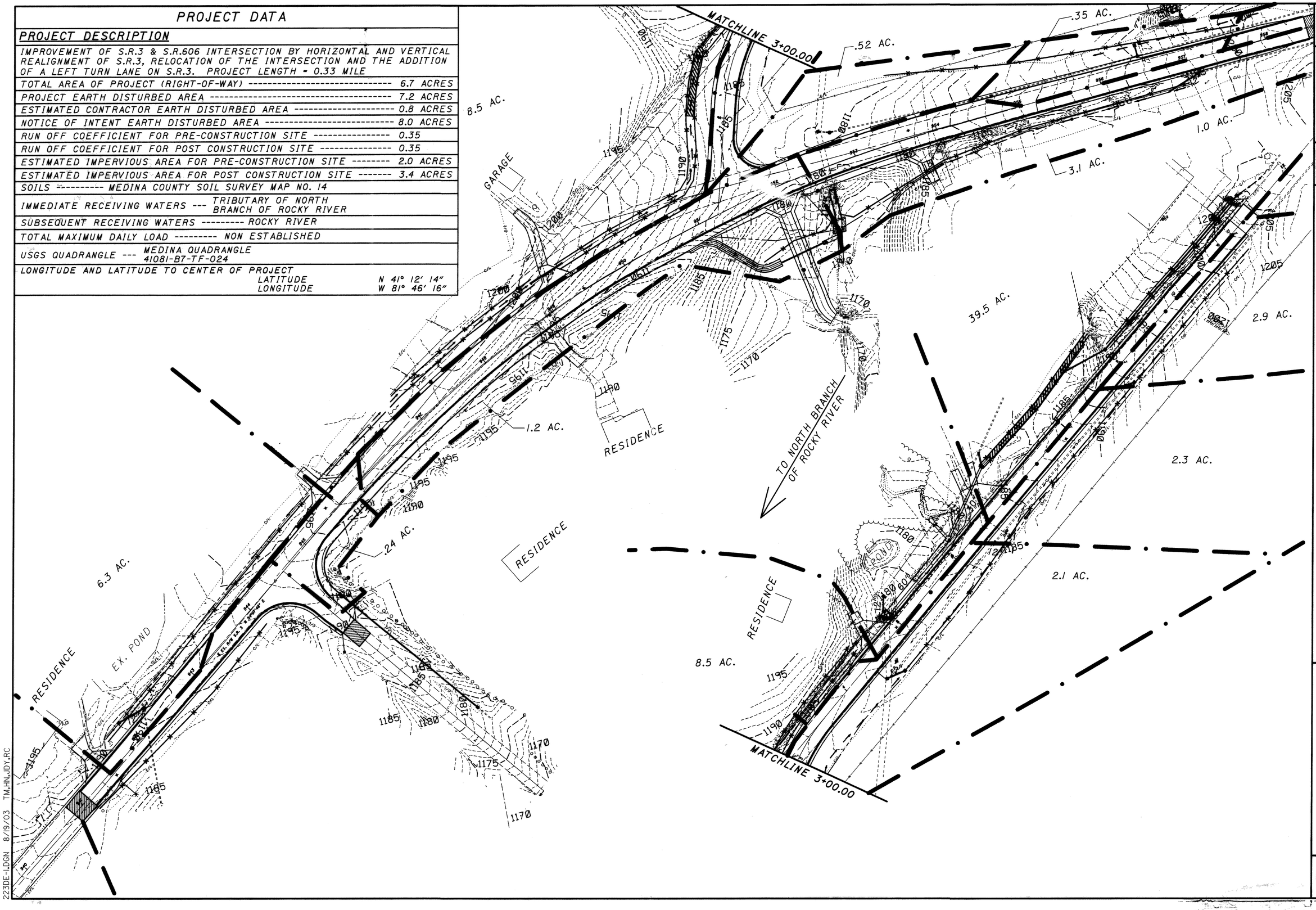
223GCB-1.DGN 8/28/03 JDY.JDY.KH.RC

PROJECT DATA

PROJECT DESCRIPTION

IMPROVEMENT OF S.R.3 & S.R.606 INTERSECTION BY HORIZONTAL AND VERTICAL REALIGNMENT OF S.R.3, RELOCATION OF THE INTERSECTION AND THE ADDITION OF A LEFT TURN LANE ON S.R.3. PROJECT LENGTH = 0.33 MILE

TOTAL AREA OF PROJECT (RIGHT-OF-WAY)	6.7 ACRES
PROJECT EARTH DISTURBED AREA	7.2 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.8 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA	8.0 ACRES
RUN OFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.35
RUN OFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.35
ESTIMATED IMPERVIOUS AREA FOR PRE-CONSTRUCTION SITE	2.0 ACRES
ESTIMATED IMPERVIOUS AREA FOR POST CONSTRUCTION SITE	3.4 ACRES
SOILS	MEDINA COUNTY SOIL SURVEY MAP NO. 14
IMMEDIATE RECEIVING WATERS	TRIBUTARY OF NORTH BRANCH OF ROCKY RIVER
SUBSEQUENT RECEIVING WATERS	ROCKY RIVER
TOTAL MAXIMUM DAILY LOAD	NON ESTABLISHED
USGS QUADRANGLE	MEDINA QUADRANGLE 4108I-B7-TF-024
LONGITUDE AND LATITUDE TO CENTER OF PROJECT	
LATITUDE	N 41° 12' 14"
LONGITUDE	W 81° 46' 16"

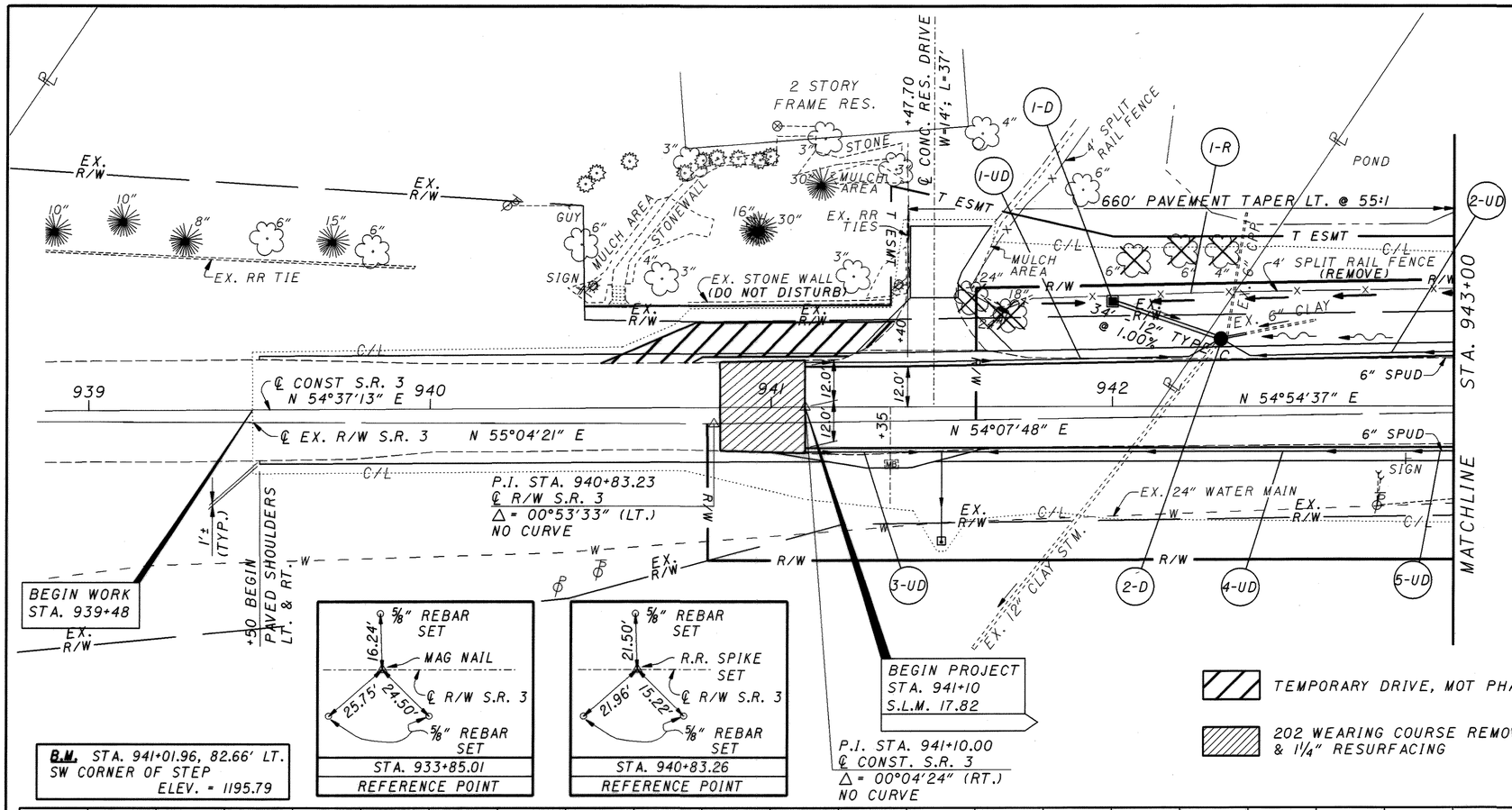


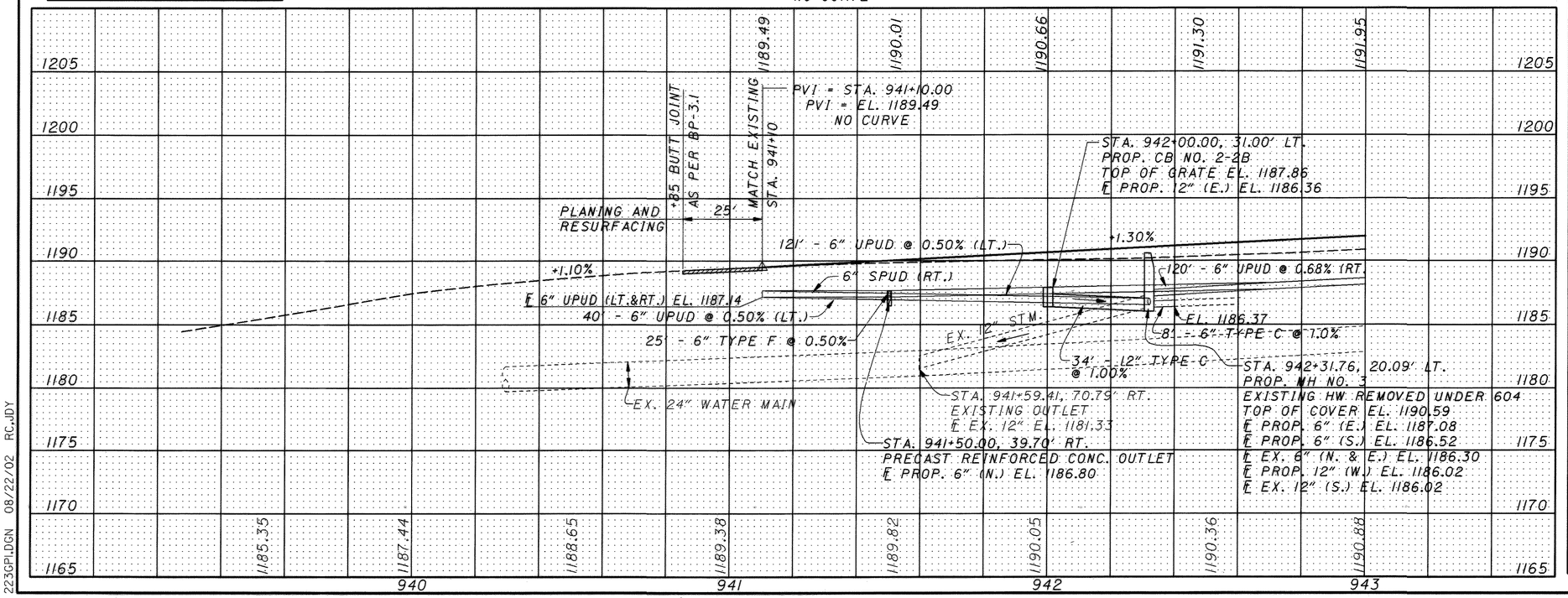
PROJECT SITE PLAN

MED-3-17.82

19
66

223DE-1.DGN 8/19/03 TM,HN,JDY,RC





605	BENDS												
	6" TEE	EACH								1			
	6" x 45° BEND	EACH					1			1			
	6" UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP	FOOT				112		40		120			272
	6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	FOOT			59				30				89
604	PRECAST REINFORCED CONCRETE OUTLET	EACH							1				1
	MANHOLE, NO. 3	EACH		1									1
	CATCH BASIN, NO. 2-2B	EACH	1										1
603	12" CONDUIT, TYPE C	FOOT	34		4								38
	6" CONDUIT, TYPE F	FOOT				10	10		28				48
	6" CONDUIT, TYPE C	FOOT		8									8
202	FENCE REMOVED	FOOT								141			141
	TOTALS CARRIED TO GENERAL SUMMARY												

REF NO.	STATION FROM	STATION TO	SIDE
1-D	942+00.00		LT.
2-D	942+31.76		LT.
1-UD	941+10.00	942+31.76	LT.
2-UD	942+31.76	943+00.00	LT.
3-UD	941+10.00	941+50.00	RT.
4-UD	941+50.00	942+70.00	RT.
5-UD	942+70.00	943+00.00	RT.
1-R	941+59.00	943+00.00	

CALCULATED TM
CHECKED EEL

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
S.R. 3 STA. 939+00 TO STA. 943+00

MED-3-17.82

223GPI.DGN 08/22/02 RC,JDY

CROSS REFERENCES	
38	ODESA DRIVE PLAN & PROFILE
50	INTERSECTION DETAIL

P.I. STA. 944+44.58
℄ CONST. S.R. 3
Δ = 0°46'48" LT.
NO CURVE

660' PAVEMENT TAPER LT @ 55:1

℄ ASPH. RES. DRIVE +61.00
W-12'; L-38'

℄ TEMPORARY DRIVE

89°58'42"
TANG. TO CURVE

℄ CONST S.R. 3
N 54°54'37" E

℄ EX. R/W S.R. 3
(WEYMOUTH RD.)
N 54°07'48" E

℄ CONST S.R. 3
(WEYMOUTH RD.)

TRANSITION CURB
0" TO 6" IN 10'

6" SPUD

6" CONST ODESA DRIVE

EX. CONC. PAD

EX. 24" WATER MAIN

EX. 4" GAS

EX. 3' BOULDERS

BEGIN 6" CURB (SAVE)

STA. 944+59.40 ℄ CONST. S.R. 3 =
STA. 10+00.00 ℄ CONST. ODESA DRIVE

SC Sta. 946+29.58

MATCHLINE STA. 943+00

MATCHLINE STA. 947+00

TEMPORARY DRIVE, MOT PHASE I

TEMPORARY DRIVE, MOT PHASE II

B.M. STA. 944+50.82, 17.10' LT.
⅝" REBAR W/TRAV CAP
EL. = 1193.30

650' V.C.
P.V.I. STA. 946+75.00
ELEV. = 1196.81
CORR. = 2.74
SSD = 506.7'

P.V.C. Sta. 943+50.00

+1.30%

+1.30 %

-2.07 %

6" SPUD

EX 4" GAS RT.

EX. 24" WATER MAIN RT.

REF NO.	STATION FROM	STATION TO	SIDE	638 VALVE BOX ADJUSTED TO GRADE	638 FIRE HYDRANT ADJUSTED TO GRADE	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	202 FENCE REMOVED
				EACH	EACH	FOOT	FOOT
1-UD	943+00.00	943+25.00	LT.			25	
2-UD	943+00.00	944+25.00	RT.			125	
3-UD	944+90.00	947+00.00	RT.			210	
1-R	943+00.00	945+50.00	LT.				250
2-R	945+73.00	947+00.00	LT.		1		127
1-W	943+68.50		RT.	1			
2-W	943+77.50		RT.	1			
3-W	945+37.00		RT.	1			
TOTALS CARRIED TO GENERAL SUMMARY				3	1	360	377

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED T M
CHECKED E E L

PLAN AND PROFILE
S.R. 3 STA. 943+00 TO STA. 947+00

MED-3-17.82

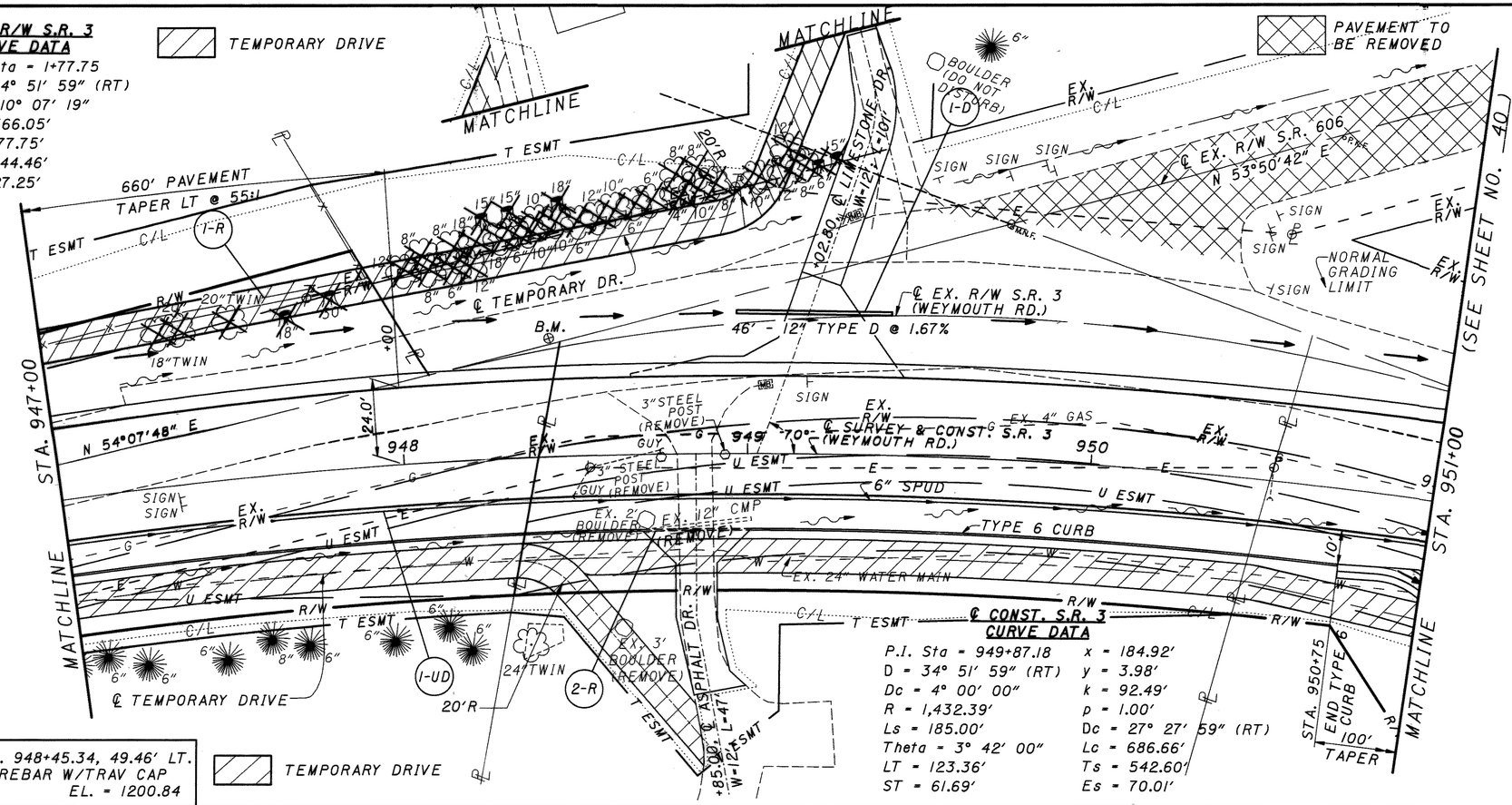
2/66

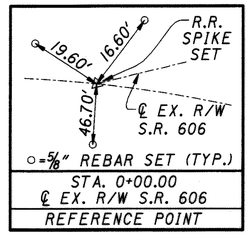
223GP2.DGN 8/19/03 SAM,RC,JDY

℄ EX. R/W S.R. 3
CURVE DATA
P.I. Sta = 1+77.75
D = 34° 51′ 59″ (RT)
Dc = 10° 07′ 19″
R = 566.05′
T = 177.75′
L = 344.46′
E = 27.25′

TEMPORARY DRIVE

PAVEMENT TO BE REMOVED





ITEM 203 - EXCAVATION
376.0 x 9″ / 36 = 94.0 CU. YD.
USE 94 CU.YD.

ITEM 203 - EMBANKMENT
376.0 x 5″ / 36 = 52.2 CU. YD.
USE 53 CU.YD.

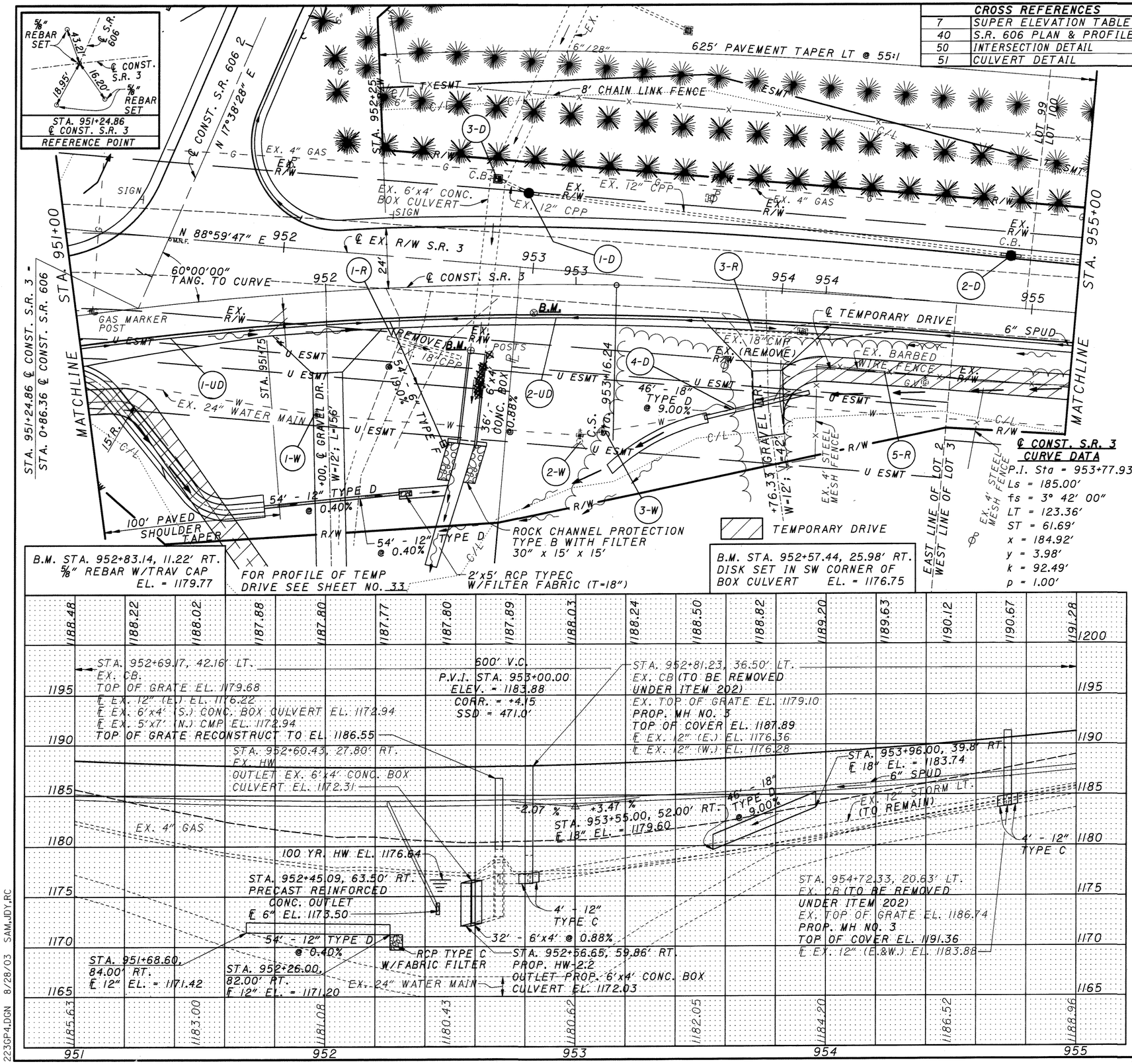
ITEM 659 - TOPSOIL
376.0 x 4″ / 36 = 41.8 CU. YD.
USE 42 CU.YD.

ITEM 659 - SEEDING & MULCHING
= 689.8 SQ. YD.
*USE 690 SQ.YD.

*CARRIED TO PAVEMENT CALCULATIONS

| REF NO. | | STATION FROM | STATION TO | SIDE | | |

CROSS REFERENCES	
7	SUPER ELEVATION TABLE
40	S.R. 606 PLAN & PROFILE
50	INTERSECTION DETAIL
51	CULVERT DETAIL



REF NO.	STATION FROM	STATION TO	SIDE	202 CATCH BASIN REMOVED EACH	202 PIPE REMOVED 24" AND UNDER FOOT	202 FENCE REMOVED FOOT	603 6" CONDUIT, TYPE F FOOT	603 12" CONDUIT, TYPE C FOOT	604 MANHOLE, NO. 3 EACH	604 CATCH BASIN RECONSTRUCTED TO GRADE EACH	604 PRECAST REINFORCED CONCRETE OUTLET EACH	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP FOOT	608 FIRE HYDRANT ADJUSTED TO GRADE EACH	608 VALVE BOX ADJUSTED TO GRADE EACH	BENDS 6" x 60° WYE EACH
1-D	952+81.23		LT.	1	8			8	1						
2-D	954+72.33		LT.	1	8			8	1						
3-D	952+69.17		LT.							1					1
4-D	953+55.00	953+96.00	RT.												
1-UD	951+00.00	952+25.00	RT.				54					125			
2-UD	952+25.00	955+00.00	RT.								1	275			
1-R	952+23.72	952+53.28	RT.		30								1	1	
2-R	NOT USED														
3-R	953+56.83	954+02.80	RT.		46										
4-R	NOT USED														
5-R	953+88.00	955+00.00	RT.			164							1	1	
1-W	951+93.00		RT.												
2-W	953+02.50		RT.												
3-W	953+12.00		RT.												
TOTALS CARRIED TO GENERAL SUMMARY				2	92	164	54	16	2	1	1	400	1	3	1

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED TM
CHECKED EEL

PLAN AND PROFILE
S.R. 3 STA. 951+00 TO 955+00

MED-3-17.82

23
66

223GP4.DGN 8/28/03 SAM,JDY,RC

CURVE DATA
PVI - STA. 957+50.00
℄ CONST. S.R. 3
△ - 0°35'11" (LT.)
NO CURVE

202 WEARING COURSE REMOVED & 1 1/4" RESURFACING

TEMPORARY DRIVE

625' PAVEMENT TAPER LT @ 55:1

END PROJECT STA. 958+50 S.L.M.

8' CHAIN LINK FENCE

STA. 955+00

MATCHLINE

ST Sta. 955+01.24

T ESMT

EX. R/W

EX. 4" GAS

13'- 12" TYPE C @ 1.00%

SIGN

EX. 12" CPP

B.M.

10'-6" TYPE F

6" SPUD

956

957

958

959

℄ SURVEY R/W & CONST. S.R. 3 (LEDGE ROAD)

N 88°59'47" E

℄ CONST. S.R. 3

N 88°24'36" E

℄ R/W S.R. 3

14.51'

12.70'

13.66'

6" SPUD

44' - 12" TYPE D @ 0.5%

EX. 12" CPP DO NOT DISTURB

EX. BARBED WIRE FENCE

EX. 24" WATER MAIN

℄ TEMPORARY DRIVE

24" DO NOT DISTURB

U ESMT

1-UD

1-R

2-D

1-D

2-UD

4-D

3-D

B.M.

2 STORY FRAME RES.

GRAVEL W=9'

27"

END WORK STA. 958+80

℄ CONST. P.I. STA. 957+50 △ - 0°35'11" NO CURVE

100' PAVEMENT TAPER RT @ 60:1

SEPTIC SYSTEM IN BACK

13.81'
15.67'
MAG NAIL
℄ R/W S.R. 3
17.03'
○ - 5/8" REBAR SET
STA. 965+73.69
REFERENCE POINT

4'
12:1
2'
ROUNDING
SWALE @ 34' LT.
PROP. CB

SECTION A-A

B.M. STA. 958+36.76, 57.35' RT.
SW CORNER OF STEPS
EL. = 1208.64

B.M. STA. 955+61.29, 16.72' LT.
5/8" REBAR W/TRAV CAP
EL. = 1191.34

CURVE DATA
PVI - STA. 958+50.00
℄ CONST. S.R. 3
△ - 0°35'11" (RT.)
NO CURVE

N

191.28 | 191.95 | 192.67 | 193.45 | 194.29 | 196.02 | 197.76 | 199.49 | 201.17 | 202.81

600' V.C
P.V.I. STA. 953+00.00
ELEV. = 1183.88
CORR. = +4.15
SSD = 471.01

P.V.T. STA. 956+00.00
ELEV. 1194.29

STA. 956+50.00, 20.60' LT.
PROP. M.H. NO. 3
TOP OF COVER EL. 1195.88
℄ EX. 12" (E. & W.) EL. 1191.38
℄ PROP. 12" (N.) EL. 1191.38
℄ PROP. 6" (S.) EL. 1192.10

STA. 956+75.00, 27.5' RT.
℄ 12" EL. 1194.67

PVI - STA. 957+75.00
PVI - EL. 1200.35
NO CURVE

+3.47%
+3.28%

44' - 12" TYPE D @ 0.5%

EX. 4" GAS

CONCRETE MASONRY COLLAR DM-I.J.

EX. 12" STORM LT. (TO REMAIN)

EX. 12" STORM RT. (TO REMAIN)

6" SPUD

2" STORM LT. (TO REMAIN)

STA. 957+72.11, 20.28' LT.
EX. CB (TO BE ABANDONED UNDER ITEM 202)
TOP OF GRATE EL. 1199.38
℄ EX. 12" (E &W.) EL. 1196.53

4' - 12" TYPE C @ 4.20%

4' - 12" TYPE C @ 4.20%

STA. 956+50.00, 34.00' LT.
PROP. C.B. NO. 2-2B
TOP OF GRATE EL. 1194.56
℄ PROP. 12" (S.) EL. 1191.51

MATCH EXISTING STA. 958+50

+75 BUTT JOINT AS PER BP-3.1

25' PLANING AND RESURFACING

1210 | 1205 | 1200 | 1195 | 1190 | 1185 | 1180 | 1175

955 | 956 | 957 | 958 | 959

REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" & UNDER FOOT	202 CATCH BASIN ABANDONED EACH	202 FENCE REMOVED FOOT	603 12" CONDUIT, TYPE C FOOT	603 6" CONDUIT, TYPE F FOOT	604 CATCH BASIN, NO. 2-2B EACH	604 MANHOLE, NO. 3 EACH	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP FOOT	BENDS 6" x 90° BEND EACH	BENDS 12" x 22 1/2° BEND EACH	603 12" CONDUIT, TYPE D FOOT
1-D	956+50.00	956+50.00	LT.				13							
2-D	956+75.00	957+16.50	RT.											44
3-D	956+50.00	956+50.00	LT.	8			8							
4-D	957+72.11		LT.		1									
1-UD	955+00.00	958+50.00	RT.								350			
2-UD	956+50.00	958+50.00	LT.					10			190	1		
1-R	955+00.00	957+06.00	RT.			206							1	
TOTALS CARRIED TO GENERAL SUMMARY				8	1	206	21	10	1	1	540	1	1	44

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED TM
CHECKED EEL

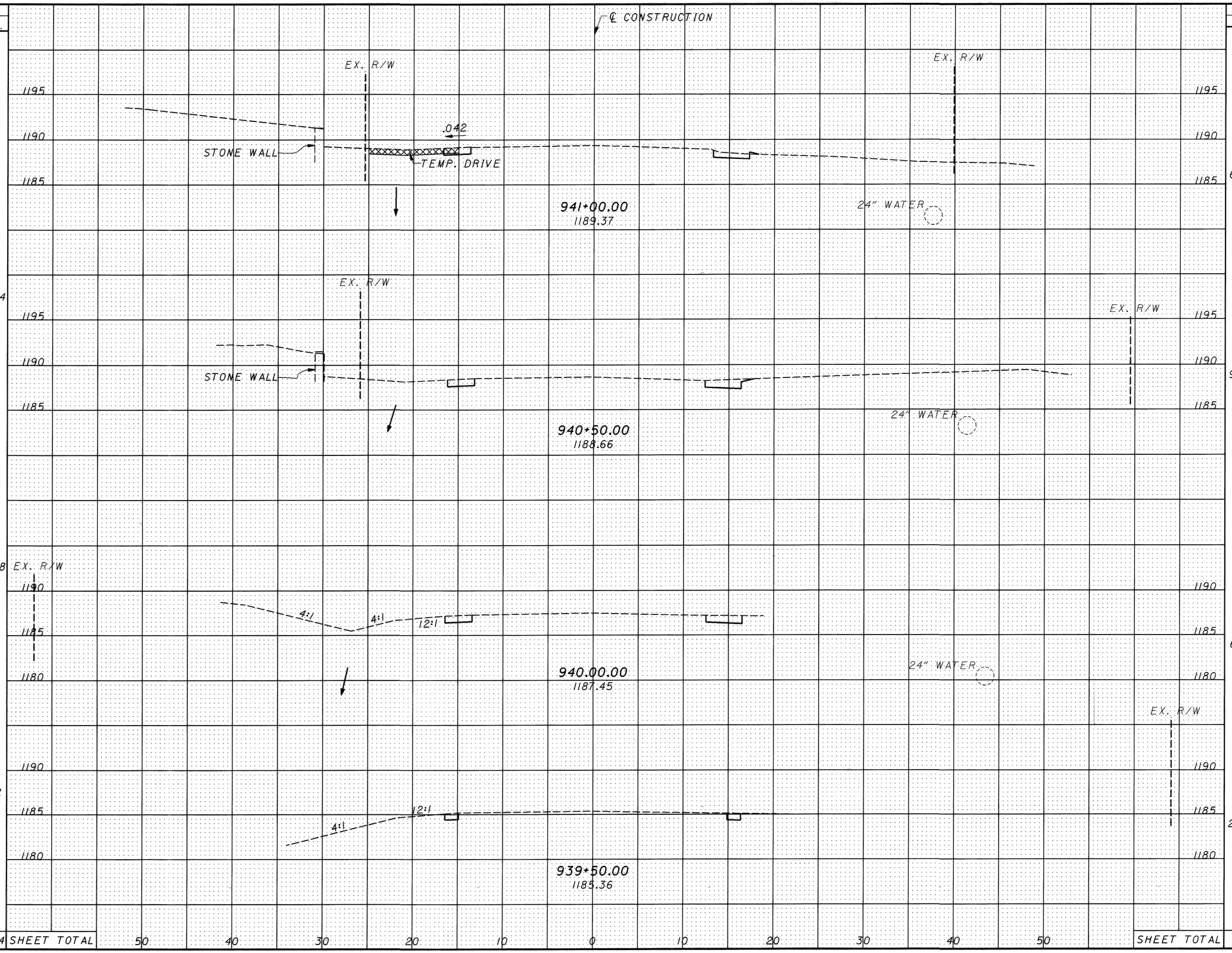
PLAN AND PROFILE
S.R. 3 STA. 955+00 TO 959+00

MED-3-17.82

24
66

223GP5.DGN 8/28/03 SAM.JDY.RC

SEEDING END WIDTH	SEEDING SQ. YDS.
6.4	46.4
10.3	
1.5	32.8
0	4.2
	83.4



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6.8	0.1		
		15	0
9.8	0		
		15	0
6.1	0		
		8	0
2.2	0		
SHEET TOTAL		38	0

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 939+50 TO STA. 941+00

MED-3-17.82

25
66

223GXS.DGN 08/21/02 HNJDY.RC 1

SEEDING END WIDTH	SEEDING SQ. YDS.
41.0	152.2
13.8	53.8
10.4	9.3
	215.3

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
28.3	21.7		
26.3			
	26.3		
		118	29
		50	
			50
99.3	9.5		
26.1			
	26.1		
		102	11
		49	
			49
38.3	5.3		
26.1			
	26.1		
		42	5
	SHEET TOTAL	262	45

PR. R/W
EX. R/W
℄ CONSTRUCTION
℄ R/W
3.33'
4:1
4:1
4:1
1188.4
PROP. 6" UD
PROP. 6" UD
STA. 942+00.00, 31.00' LT.
STD. NO. 2-2B CB
1190.66
942+00.00
1190.03
EX. R/W
PR. R/W
24" WATER
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN

EX. R/W
℄ R/W
4.01'
10%
4%
4:1
PR. R/W
EX. R/W
203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN
IN DRIVE LT.
1190.01
941+50.00
1189.82
STA. 941+59.41, 70.79' RT.
OUTLET EX. 12" CPP
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN

℄ R/W
4.05'
10%
4%
203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN
10' ROUNDING
1189.98
941+47.70
1189.80
CONCRETE DRIVE LT.
W=23.0' L=37.0'

EX. R/W
℄ R/W
EX. R/W
PR. R/W
4.56'
BACK
STONE WALL
4:1
4:1
TEMP. DRIVE
PROP. 6" UD
AHEAD
PROP. 6" UD
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN
1189.49
941+10.00
1189.49
24" WATER
BEGIN PROJECT
MATCH EXISTING
202 PAVEMENT REMOVED

50 40 30 20 10 0 10 20 30 40 50

CALCULATED TM
CHECKED EEL

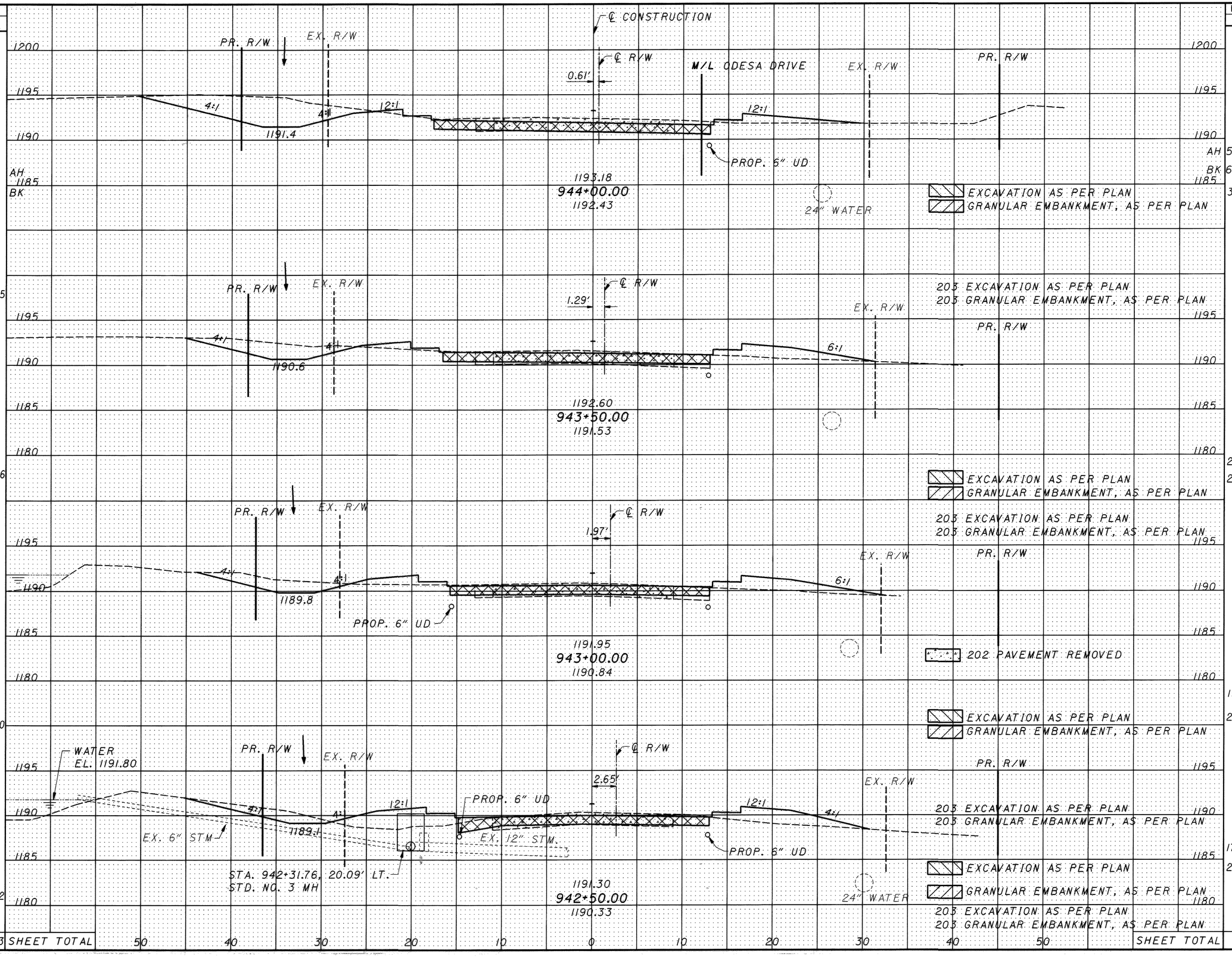
CROSS SECTIONS - S.R. 3
STA. 941+10 TO STA. 942+00

MED-3-17.82

26
66

223GXS.DGN 08/20/02 HN,RC 2

SEEDING END WIDTH	SEEDING SQ. YDS.
29.5	AH
44.5	BK
	242.5
42.8	
	233.6
41.3	
	235.0
43.3	
	234.2
	945.3 SHEET TOTAL



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
AH 59.8	2.0		
BK 60.2	9.3		
30.7			
	30.7		
		79	26
		56	
			56
24.9	18.8		
29.6			
	29.6		
		41	39
		54	
			54
19.6	23.1		
28.9			
	28.9		
		34	60
		53	
			54
17.4	41.0		
27.7			
	29.3	42	59
		51	
			53
		196	184

CALCULATED TW
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 942+50 TO STA. 944+00

MED-3-17.82

27
66

223GXS.DGN 08/20/02 HNJDY.RC 3

SEEDING END WIDTH	SEEDING SQ. YDS.
43.7	
	245.3
44.6	
30.2	
	198.3
26.8	
	198.1
	641.7 SHEET TOTAL

℄ CONSTRUCTION

10' ROUNDING

℄ TEMPORARY DRIVE

8.0%

0.04

1.0%

10' ROUNDING

1200 1195 1190 1185

ASPHALT DRIVE LT.
W=12.0' L=38.0'

1194.18
945+61.00
1196.03

PR. R/W

EX. R/W

4:1

1194.0

4:1

℄ TEMPORARY DRIVE

EX. R/W.

8:1

4:1

PR. R/W

4" GAS

PROP. 6" UD

EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN

1194.16
945+50.00
1195.79

24" WATER

PR. R/W

EX. R/W

0.04

4:1

4:1

1193.1

202 PAVEMENT REMOVED (TYP.)

M/L ODESA DRIVE

℄ TEMPORARY DRIVE

0.04

8:1

4:1

4" GAS

PROP. 6" UD

1193.96
945+00.00
1194.60

202 PAVEMENT REMOVED

203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN

PR. R/W

EX. R/W

℄ TEMPORARY DRIVE

0.04

4:1

4:1

1192.8

M/L ODESA DRIVE

1193.64
944+50.00
1193.46

24" WATER

EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN

203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN

50 40 30 20 10 0 10 20 30 40 50

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
173.2	0.0		
33.3	33.3		
		306	0
		61	61
AH 157.7	0.0		
BK 128.2	0.0		
32.6	32.6	404	17
		60	60
93.1	0.2		
31.6	31.6		
		58	58
		710	17

SHEET TOTAL

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 944+50 TO STA. 945+61

MED-3-17.82

28
66

223GXS.DGN 09/11/02 HN,JDY,RC 4

SEEDING END WIDTH	SEEDING SQ. YDS.	STATION	OFFSET	ELEVATION	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			PR. R/W					
			M/L					
			70	1200				
			4:1					
			60	1195				
			℄ TEMPORARY DRIVE					
			M/L					
			EX. R/W					
			1200					
			4:1					
			4:1					
			1193.5	1195				
67.3				1190				
			℄ CONSTRUCTION					
			PR. R/W					
			℄ TEMPORARY DRIVE					
			EX. R/W					
			0.04					
			4:1					
			8:1					
			4" GAS					
			1193.64					
		947+50.00			523.5	0.0		
			1198.76					
			PROP. 6" UD					
			24" WATER				871	0
			PR. R/W					
	345.9		EX. R/W	1200				
			0.02					
			4:1					
			4:1					
			1193.7	1195				
57.2				1190				
			℄ TEMPORARY DRIVE					
			EX. R/W					
			1:1					
			PR. R/W					
			EXCAVATION AS PER PLAN					
			GRANULAR EMBANKMENT, AS PER PLAN	1190				
			1193.96					
		947+00.00			417.4	0.0		
			1198.81		36.9	36.9		
			PR. R/W				689	0
			203 EXCAVATION AS PER PLAN				68	
			203 GRANULAR EMBANKMENT, AS PER PLAN					68
	295.6		EX. R/W	1200				
			℄ TEMPORARY DRIVE					
			202 PAVEMENT REMOVED (TYP.)					
			0.02					
			4:1					
			4:1					
			1193.8	1195				
49.2				1190				
			PR. R/W					
			202 PAVEMENT REMOVED					
			1194.16					
		946+50.00			326.9	0.0		
			1197.84		35.9	35.9		
	261.7		EX. R/W	1190				
			PR. R/W					
			EXCAVATION AS PER PLAN					
			GRANULAR EMBANKMENT, AS PER PLAN					
			℄ TEMPORARY DRIVE				515	0
			EX. R/W	1200				
			203 EXCAVATION AS PER PLAN				66	
			203 GRANULAR EMBANKMENT, AS PER PLAN					66
			℄ TEMPORARY DRIVE					
			0.04					
			4:1					
			0.04					
			4:1					
			1193.7	1195				
45.0				1190				
			8:1					
			4" GAS					
			EXCAVATION AS PER PLAN					
			GRANULAR EMBANKMENT, AS PER PLAN					
			1194.22					
		946+00.00			228.9	0.0		
			1196.82		34.9	34.9		
			PROP. 6" UD				372	0
	246.4		24" WATER				63	
			203 EXCAVATION AS PER PLAN					63
			203 GRANULAR EMBANKMENT, AS PER PLAN	1185				
	1149.6	SHEET TOTAL	50 40 30 20 10 0 10 20 30 40 50		SHEET TOTAL		2447	0

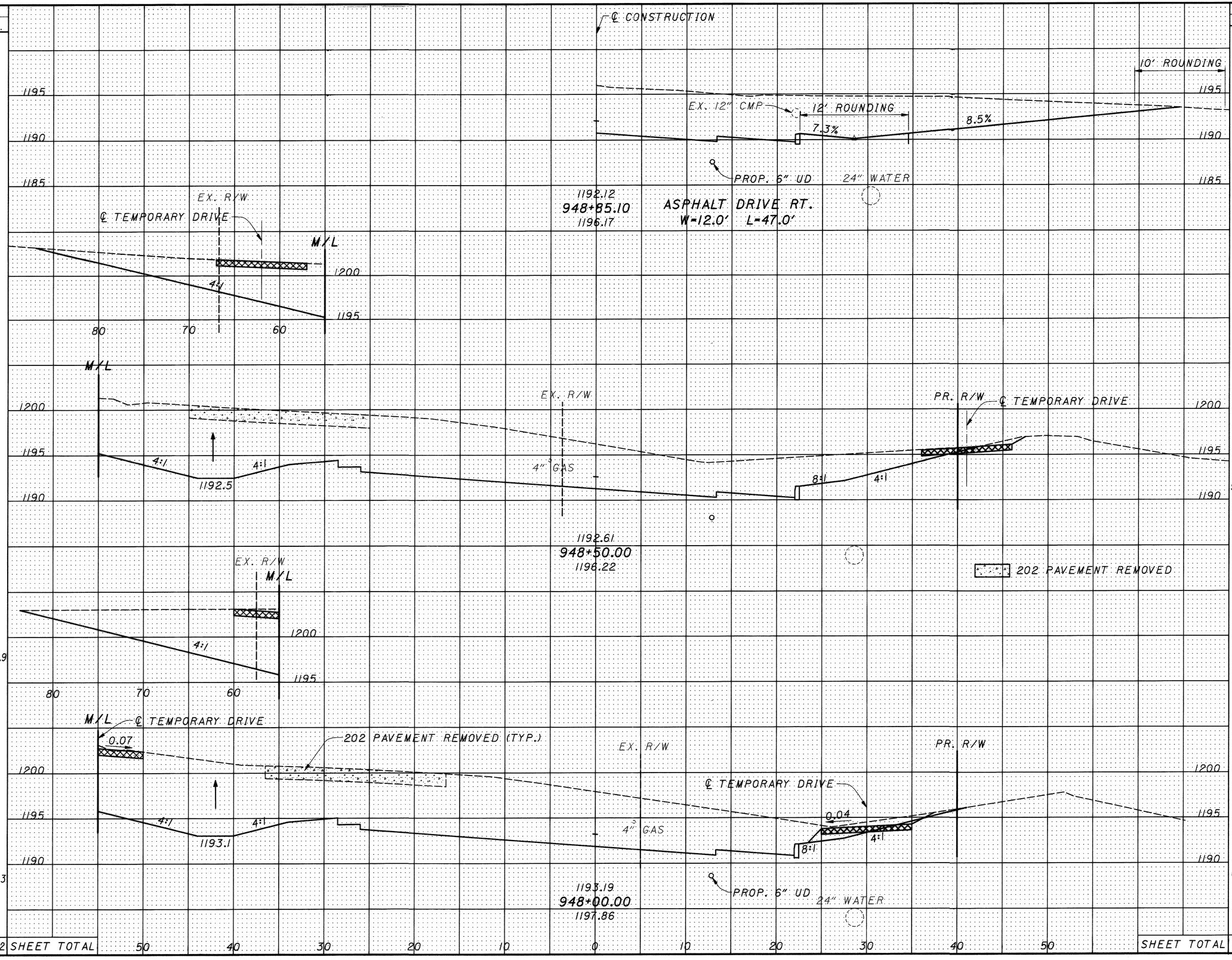
CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 946+00 TO STA. 947+50

MED-3-17.82

223GXS.DGN 08/20/02 HN,RC 5

SEEDING	
END WIDTH	SQ. YDS.
80.5	
	433.9
75.7	
	397.3
	831.2



END AREA		VOLUME	
CUT	FILL	CUT	FILL
573.2	0.0		
		1100	0
614.6	0.0		
		1054	0
		2154	0

CALCULATED TM

CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 948+00 TO STA. 948+85.10

MED-3-17.82

30
66

223GXS.DGN 8/19/03 HN,RC 6

SEEDING	
END WIDTH	SQ. YDS.
70.4	413.1
78.3	441.1
	854.2 SHEET TOTAL

END AREA		VOLUME	
CUT	FILL	CUT	FILL
363.9	0.0	761	0
457.9	0.0	954	0
		1715	0 SHEET TOTAL

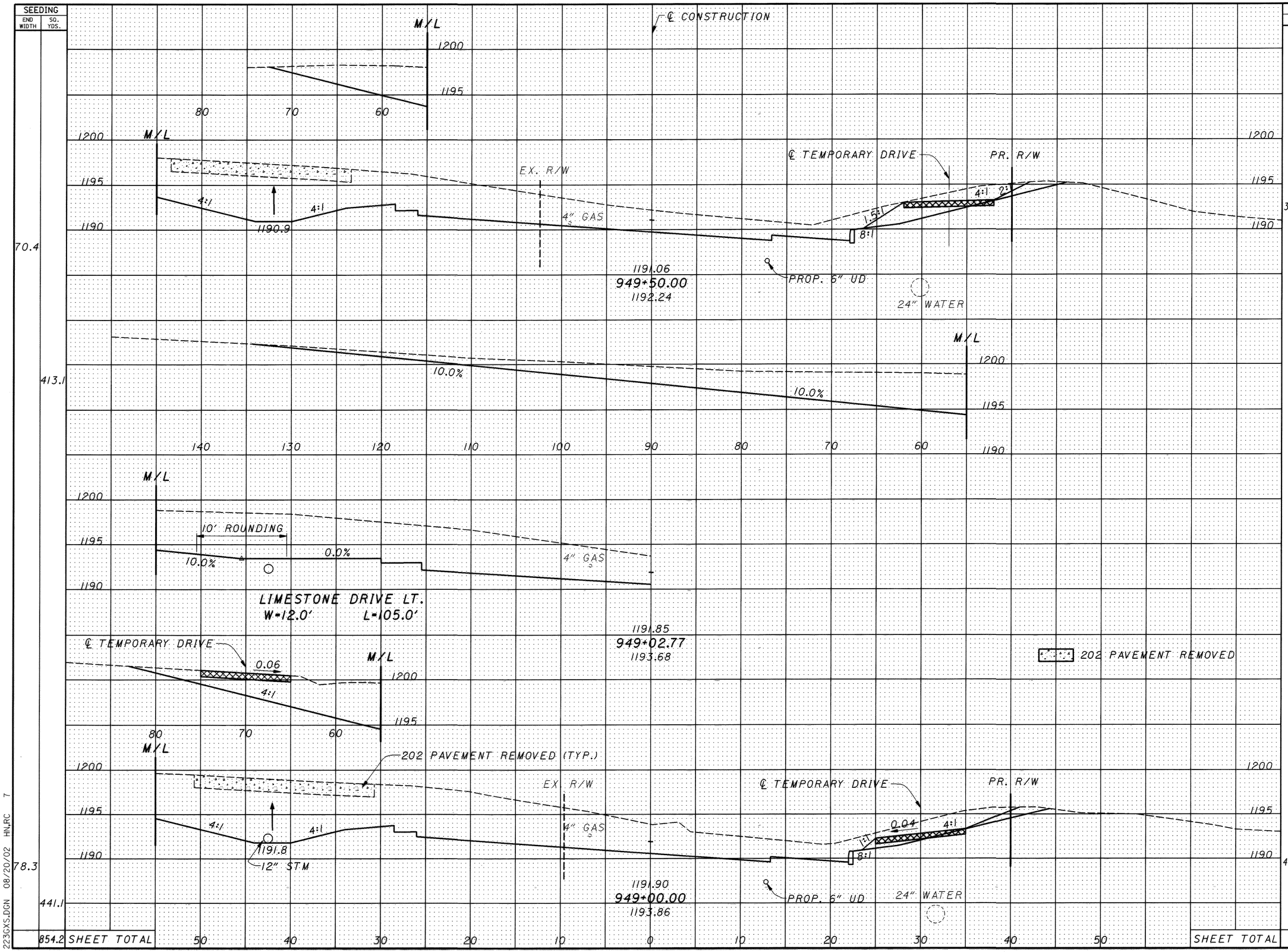
CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 949+00 TO STA. 949+50

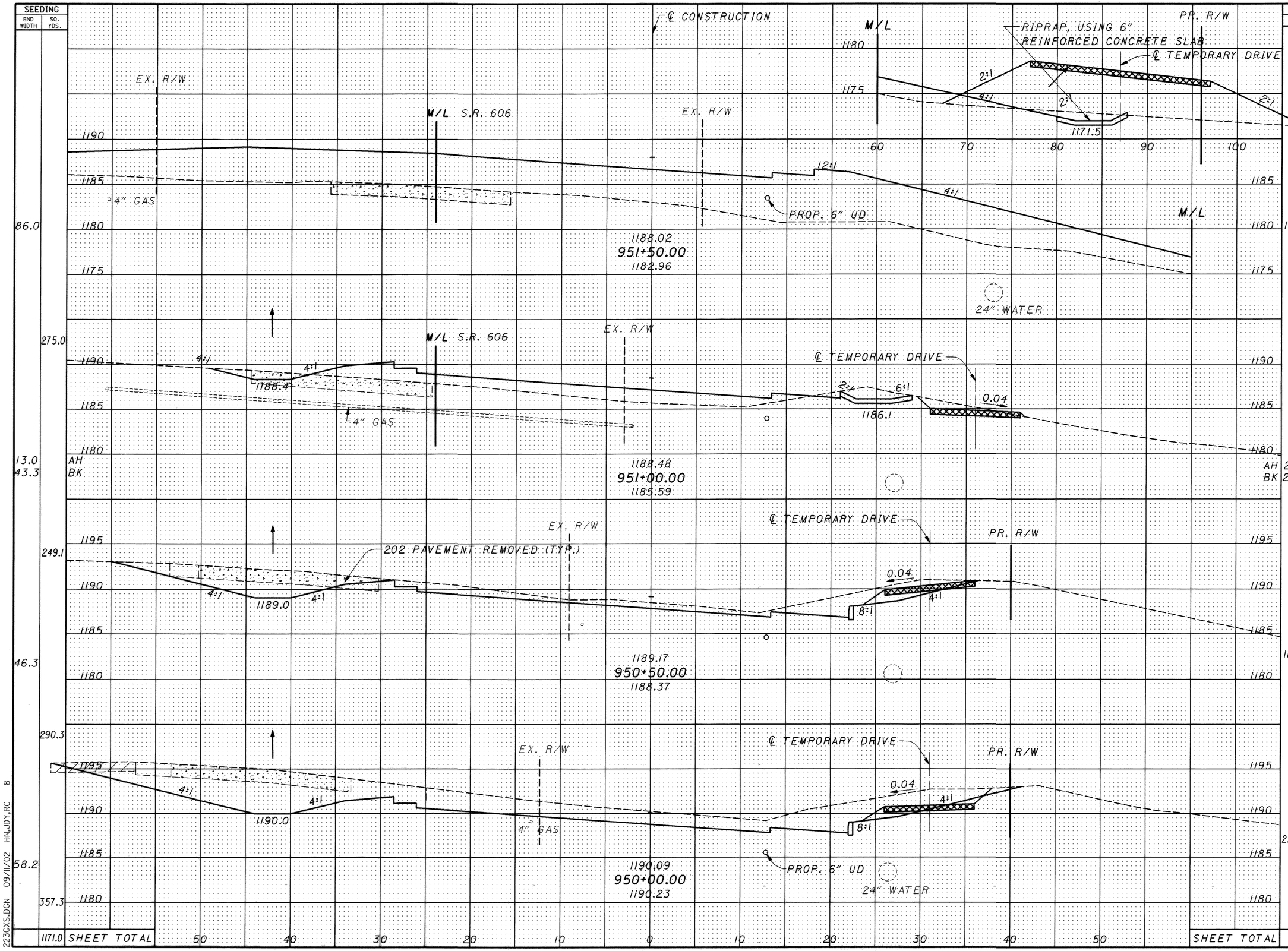
MED-3-17.82

31
66

223GXS.DGN 08/20/02 HNLRC 7



SEEDING END WIDTH	SEEDING SQ. YDS.
86.0	275.0
13.0	43.3
AH	
BK	
46.3	249.1
	290.3
58.2	357.3
	1171.0



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
10.0	339.6	30	362
AH 21.6	50.7		
BK 27.9	67.9		
		128	63
110.3	0.0		
		323	0
238.2	0.0		
		557	0
SHEET TOTAL		1038	425

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 950+00 TO STA. 951+50

MED-3-17.82

32
66

223GXS.DGN 09/11/02 HNJDY.RC 8

SEEDING	
END WIDTH	SQ. YDS.
	115
	456
	598
	100
	63
	413
	1467

PR. R/W
M/L
4:1
1190
℄ CONSTRUCTION
1180
1175
1170
12%
20' ROUNDING
EX. 5'x7' CMP
0 20 40 60 80 100 120 140 160
TEMPORARY DRIVE PROFILE (10 SCALE)
951+00
80 70 60
46.55' LT.
1190
M/L
EX. R/W
6:1
12:1
℄ CONSTRUCTION
EX. R/W
36' - PROP. 6'x4' CONC. BOX CULVERT @ 0.88%
1185
4:1
PROP. 6" UD
1180
2:1
4" GAS
1175
EX. 4'x6' CONC. BOX CULVERT
EX. 5'x7' CMP
1170
STA. 952+81.23, 36.50' LT.
EX. CB (TO BE REMOVED UNDER ITEM 202)
EX. TOP OF GRATE EL. 1179.10
PROP. MH NO. 3
TOP OF COVER EL. 1187.89
E EX. 12" (E.) EL. 1176.36
E EX. 12" (W.) EL. 1176.28
STA. 952+69.45, 42.38' LT.
EX CB
STA. 952+60.43, 27.80' RT.
EX. BOX CULVERT
24" WATER
STA. 952+55.2, 63.2' RT.
PROP. HW-2.2 HEADWALL
1187.80
952+50.00
1180.42
M/L 60' RT.
1185
ADDITIONAL FOR DRIVE RT.
10%
PR. R/W
1180
20' ROUNDING
4:1
1175
12" STM
1170
60 70 80 90 100 110 120 130 140 150 160 170 180
M/L S.R. 606
1190
EX. R/W
4:1
AHEAD
EX. R/W
ADDITIONAL FOR DRIVE RT.
1185
BACK
202 PAVEMENT REMOVED (TYP.)
10%
M/L
PROP. 6" UD
1180
4:1
4" GAS
EX. 18" CPP
1175
AH
BK
1187.79
952+00.00
1181.07
+ 00.00 GRAVEL DR. RT.
W=12.0' L =156.0'
24" WATER
1170
SHEET TOTAL
50 40 30 20 10 0 10 20 30 40 50
SHEET TOTAL

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	898.2		
0	1455		
	711		
AH	0.0	673	
BK	0.0	470	
10	750		
10	2916		

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 952+00 TO STA. 952+50

MED-3-17.82

33
66

223GXS.DGN 8/27/03 HN,JDY,KH,RC 9

SEEDING	
END WIDTH	SQ. YDS.
94.3	
108.3	564.0
185.0	621.0
SHEET TOTAL	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6.3	601.5		
		6	1358
0.0	864.4		
		0	1633
		6	2991

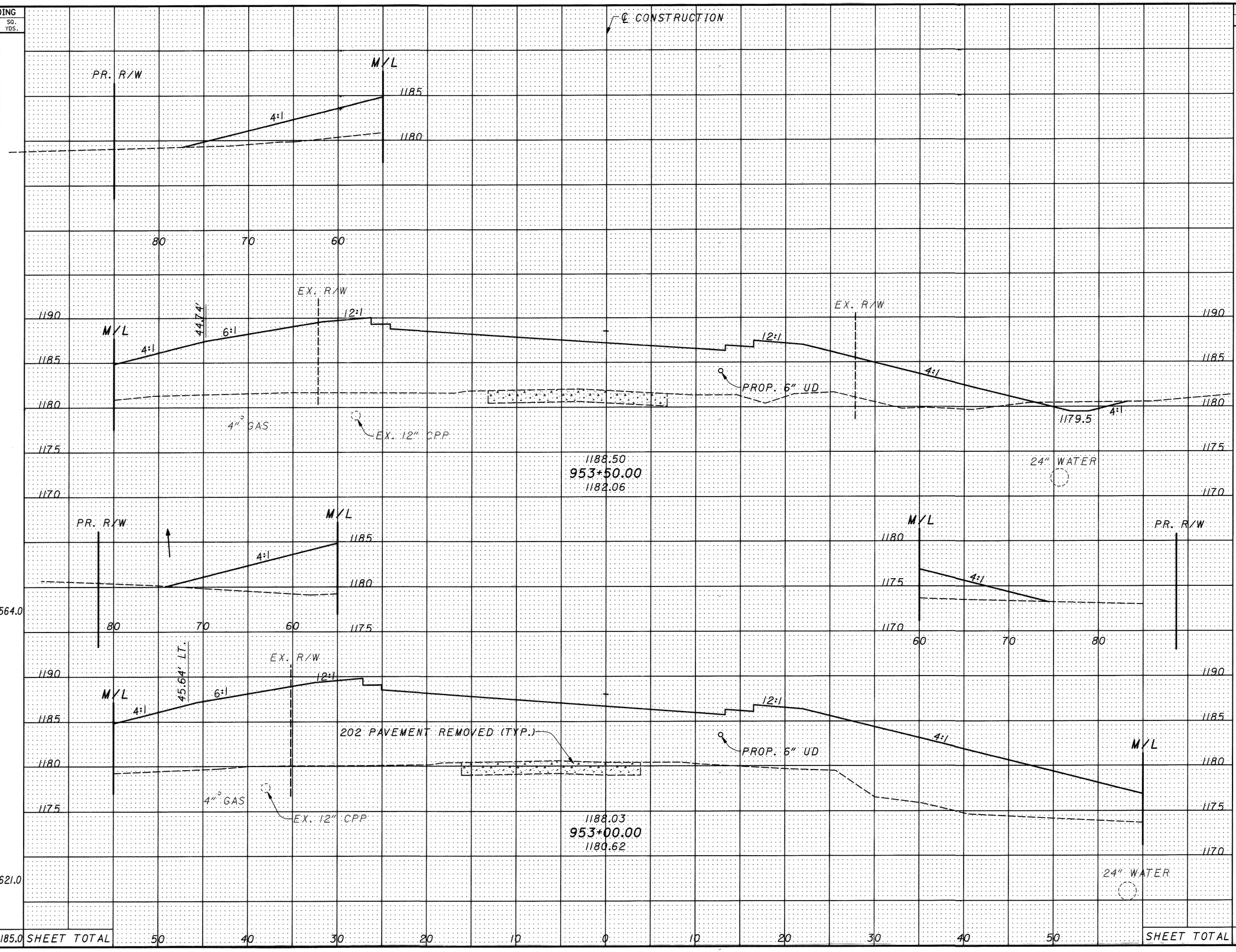
CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 953+00 TO STA. 953+50

MED-3-17.82

34
66

223GXS.DGN 8/27/03 HN,RC 10



SEEDING	
END WIDTH	SQ. YDS.
60.6	388.6
79.2	482.3
	871.0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
41.9	214.3	49	546
11.5	374.9	16	905
		65	1451

CALCULATED TM

CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 953+75.95 TO STA. 954+50

MED-3-17.82

35
66

℄ CONSTRUCTION

EX. R/W

EX. R/W

PR. R/W

℄ TEMP. DRIVE

42.73'

6:1

4:1

4:1

4:1

1187.4

PROP. 6" UD

24" WATER

4" GAS

1190.12
954+50.00
1186.54

STA. 954+72.33, 20.63' LT.
EX. CB (TO BE REMOVED UNDER ITEM 202)
EX. TOP OF GRATE EL. 1186.74
PROP. MH NO. 3
TOP OF COVER EL. 1191.36
℄ EX. 12" (E.&W.) EL. 1183.88

M/L

4:1

70 60 50

EX. R/W

EX. R/W

PR. R/W

43.84' LT.

6:1

M/L 4:1

℄ TEMP. DRIVE

4:1

4:1

1183.2

202 PAVEMENT REMOVED (TYP.)

4" GAS

EX. 12" CPP

1189.19
954+00.00
1184.22

5.86%

PROP. 6" UD

18"

10' ROUNDING

EX. 18" CMP

24" WATER

1188.83
953+76.33
1183.11

SLAG DRIVE RT.
W=12.0' L=42.0'

1195 1190 1185 1180 1175

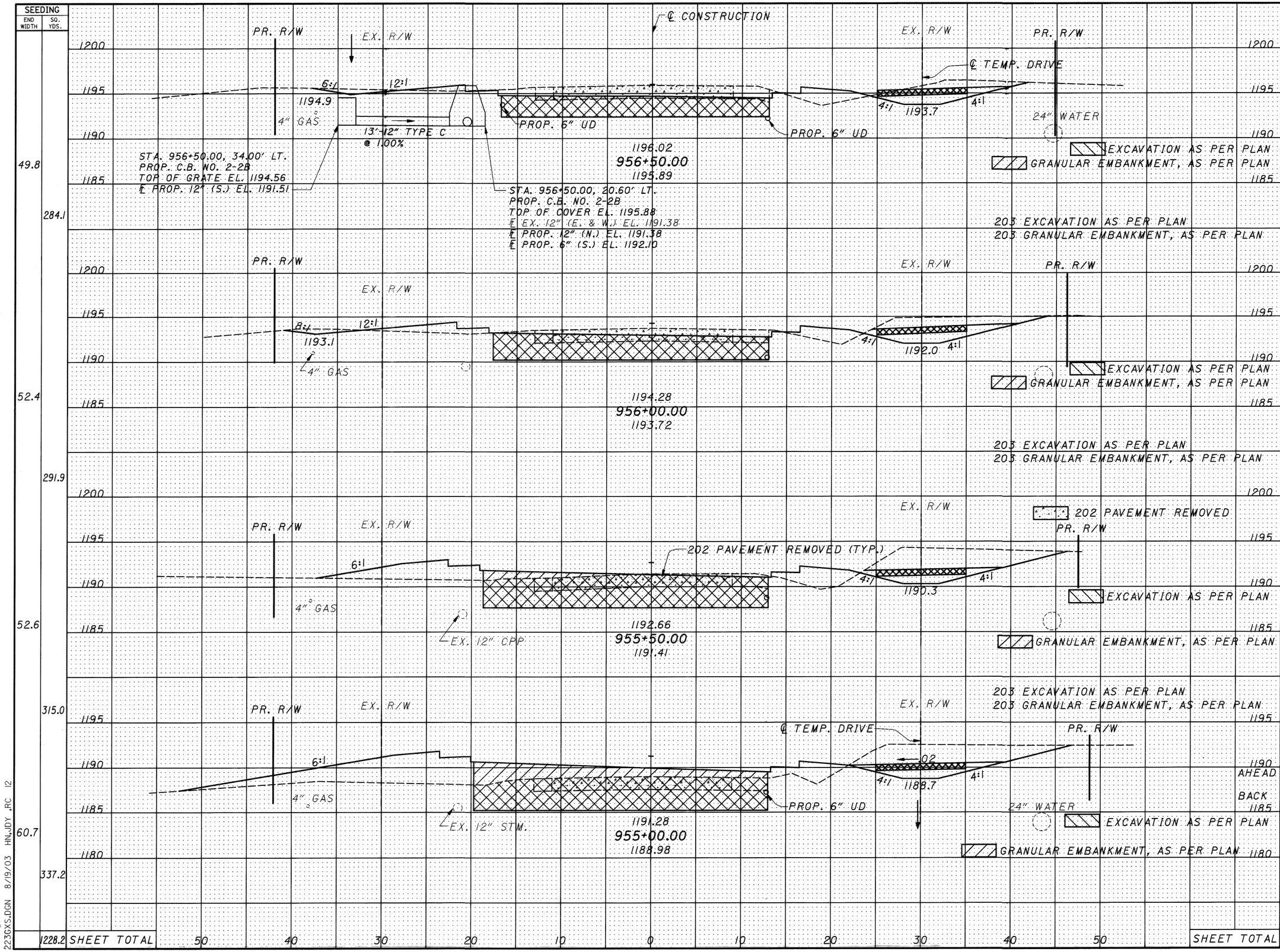
50 40 30 20 10 0 10 20 30 40 50

SHEET TOTAL

SHEET TOTAL

223GXS.DGN 8/27/03 HN,JDY,RC II

SEEDING END WIDTH	SEEDING SQ. YDS.
49.8	284.1
52.4	291.9
52.6	315.0
60.7	337.2
	1228.2 SHEET TOTAL



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
76.0	12.4		
67.4	67.4		
		145	20
		142	142
80.6	8.6		
85.7	85.7		
		139	44
		183	192
69.6	38.1		
111.3	120.7		
		117	101
		212	260
56.0	70.1		
	111.9		
117.6	159.4		
		91	302
		492	467

SHEET TOTAL

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 3
STA. 955+00 TO STA. 956+50

MED-3-17.82

36
66

223GXS.DGN 8/19/03 HN,JDY ,RC 12

SEEDING END WIDTH	SEEDING SQ. YDS.	STATION	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	11,496	TOTAL CARRIED TO CALCULATIONS			9789	8517
		203 EXCAVATION AS PER PLAN 203 GRANULAR EMBANKMENT, AS PER PLAN			1,609	1,669
0		1202.81 958+50.00 1202.81	40.3 46.6	0.0 46.6	123	0
		EXCAVATION AS PER PLAN GRANULAR EMBANKMENT, AS PER PLAN			89	89
106.2		1201.17 958+00.00 1201.18	92.6 49.0	0.0 49.0		
		EXCAVATION AS PER PLAN GRANULAR EMBANKMENT, AS PER PLAN			175 91	0 91
38.2		1199.48 957+50.00 1199.51	95.9 49.1	0.0 49.1		
		EXCAVATION AS PER PLAN GRANULAR EMBANKMENT, AS PER PLAN			188 93	5 93
215.4		1197.75 957+00.00 1197.76	106.8 50.9	5.1 50.9		
		EXCAVATION AS PER PLAN GRANULAR EMBANKMENT, AS PER PLAN			170 110	16 110
39.3						
250.8						
50.9						
280.0						
	852.4	SHEET TOTAL			656	21

PR. R/W
EX. R/W
℄ CONSTRUCTION
4" GAS
PROP. 6" UD
12" STM.
24" WATER
℄ TEMP. DRIVE
6:1
12:1
4:1
1199.8
1200.4
1198.0
1198.6
1196.5
1195.5
STA. 957+72.11, 20.28' LT.
EX. CB (TO BE ABANDONED UNDER ITEM 202)
TOP OF GRATE EL. 1199.38
E EX. 12" (E.&W.) EL. 1196.53
EX. 12" CPP
202 PAVEMENT REMOVED
202 PAVEMENT REMOVED (TYP.)
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN

CROSS SECTIONS - S.R. 3
STA. 957+00 TO STA. 958+50

MED-3-17.82

37
66

223GXS.DGN 8/19/03 HNJDY.RC 13

℄ CONST. S.R. 3 CURVE DATA

P.I. Sta = 949+87.18	x = 184.92′
D = 34° 51′ 59″ (RT)	y = 3.98′
Dc = 4° 00′ 00″	k = 92.49′
R = 1,432.39′	p = 1.00′
Ls = 185.00′	Dc = 27°27′59″ (RT)
Theta = 3° 42′ 00″	Lc = 686.66′
LT = 123.36′	Ts = 542.60′
ST = 61.69′	Es = 70.01′

CROSS REFERENCES	
7	SUPER ELEVATION TABLE
21	S.R. 3 PLAN & PROFILE
50	INTERSECTION DETAIL

B.M. STA. 944+50.82, 17.10′ LT.
⅝″ REBAR W/TRAV CAP
EL. = 1193.30

TEMPORARY DRIVE, MOT PHASE I

TEMPORARY DRIVE, MOT PHASE II

202 WEARING COURSE REMOVED & 1¼″ RESURFACING

STA. 944+59.40 ℄ CONST. S.R. 3 = STA. 10+00.00 ℄ R/W & CONST. ODESA DRIVE

BENDS														
605	6″ UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP	FOOT						50						50
	6″ SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	FOOT							37	40				77
604	PRECAST REINFORCED CONCRETE OUTLET	EACH						1						1
	CATCH BASIN, NO. 3	EACH						1						1
603	12″ CONDUIT, TYPE C	FOOT						208						208
	6″ CONDUIT, TYPE F	FOOT							23		12			35
202	PIPE REMOVED, 24″ AND UNDER	FOOT						24						24

REF NO.	STATION FROM	STATION TO	SIDE
1-D	7+22.75	9+30.00	RT.
1-UD	8+84.00	9+50.00	LT.
2-UD	9+50.00	9+79.50	LT.
3-UD	9+30.00	9+75.50	RT.

TOTALS CARRIED TO GENERAL SUMMARY

CALCULATED TM
CHECKED EEL

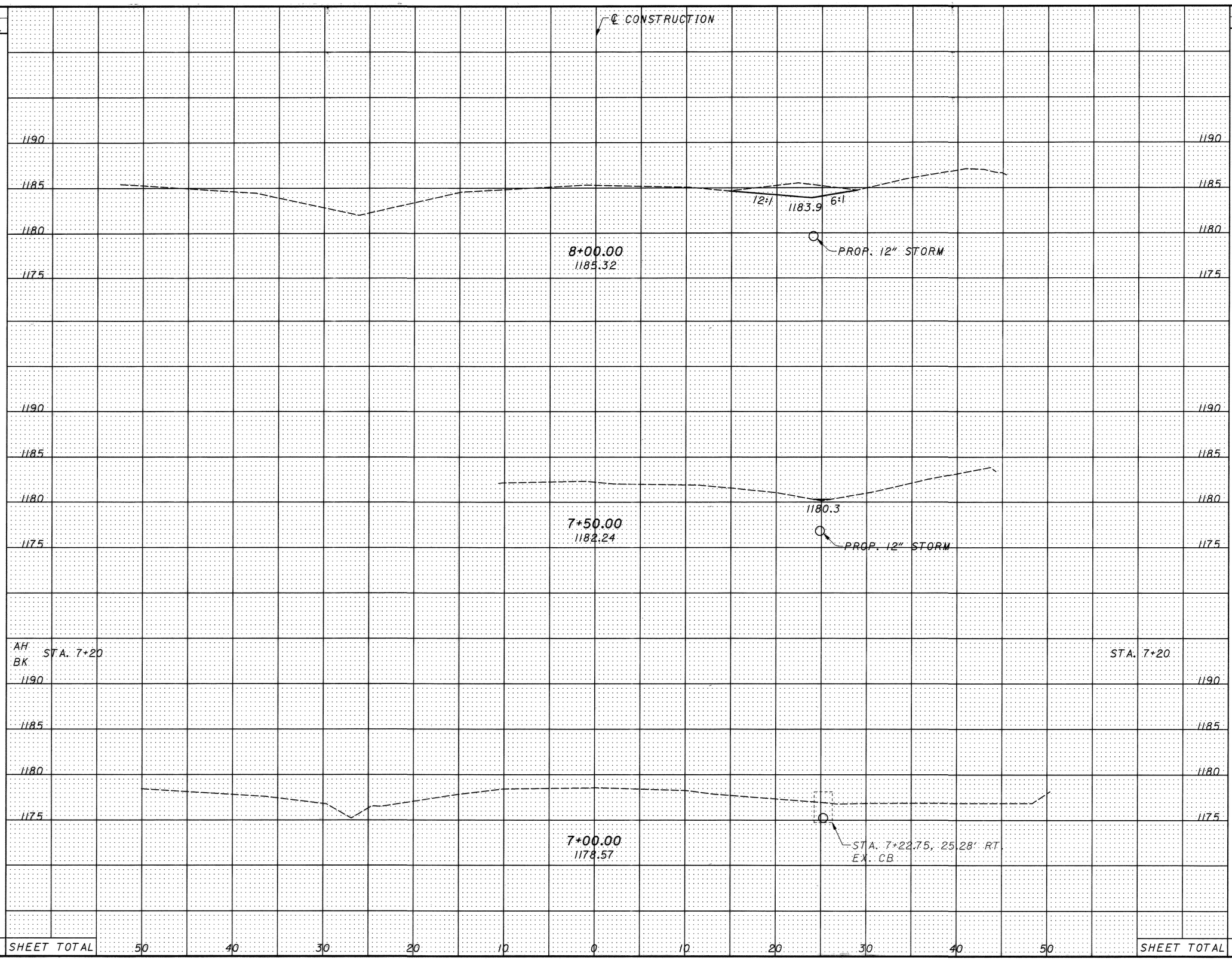
HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
ODESA DRIVE STA. 8+00 TO STA. 10+00

MED-3-17.82

223GPBLDGN 8/29/03 SAM,JDY,RC

SEEDING			END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SQ. YDS.		CUT	FILL	CUT	FILL	TM	EEL
14	45		12	0	12	1		
2	7		0	1	0	1		
2 0			0	0				
	52	SHEET TOTAL			12	2		



CROSS SECTIONS - ODESA DRIVE STA. 7+00 TO STA. 8+00

MED-3-17.82

38A / 66

223GXS.DGN 8/19/03 HN,JDY,RC 21

SEEDING END WIDTH	SEEDING SQ. YDS.
0.0	317.2
	42.2
20.0	
	89.0
12	
	64
11	
	70
14	
	265.2

TOTAL CARRIED TO CALCULATIONS

USE 318 SQ. YD.

STA. 8+00

SHEET TOTAL

℄ CONSTRUCTION

TOTALS CARRIED TO GENERAL SUMMARY

M/L S.R. 3

BACK

1193.30
9+88.00
1193.32

EX. R/W

4:1

1190.5

PROP. 6" UD

1192.00
9+50.00
1192.26

8:1

STA. 9+30.00, 22.00' RT.
STD. NO. 3 CB

6.0%

PROP. 12" STORM

1190.81
9+21.00
1190.78

DRIVE RT.
W=14.0' L=5.5'

12:1

1188.78

1189.95
9+00.00
1189.95

1186.28

1187.48
8+50.00

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		267	4
AH 0.0	0.0		
BK 121.1	0.0		
		127	1
59	1.3		
		92	1
AH 39.4	0.0		
BK 9.0	0.0		
		17	0
8.5	0		
		19	0
12	0		
		255	2

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - ODESA DRIVE STA. 9+00 TO STA. 9+88

MED-3-17.82

39
66

223GXS.DGN 8/28/03 HN,JDY,RC 21

℄ EX. R/W S.R. 606	11.85'	MAG NAIL	22.83'	20.15'
○ = ⅝" REBAR				
STA. 2+90.39 ℄ CONST. S.R. 606				
PI CURVE				

18.95'	43.21'	℄ CONST. S.R. 606	16.20'	℄ CONST. S.R. 3
○ = ⅝" REBAR				
STA. 0+86.36 ℄ CONST. S.R. 606				
REFERENCE POINT				

CROSS REFERENCES	
23	S.R. 3 PLAN & PROFILE
50	INTERSECTION DETAIL

ITEM 203 - EXCAVATION
134.8 x 9" / 36 = 33.7 CU. YD.
USE 34 CU. YD.

ITEM 203 - EMBANKMENT
134.8 x 5" / 36 = 18.7 CU. YD.
USE 19 CU. YD.

ITEM 659 - TOPSOIL
134.8 x 4" / 36 = 15.0 CU. YD.
USE 15 CU. YD.

ITEM 659 - SEEDING & MULCHING
= 263.0 SQ. YD.
*USE 263 SQ. YD.

*CARRIED TO PAVEMENT CALCULATIONS

STA. 951+24.86 ℄ CONST. S.R. 3
STA. 0+86.36 ℄ CONST. S.R. 606

(SEE SHEET NO. 22) MATCHLINE STA. 951+00

N 53°50'42" E

I-D

I-UD

WOODS

℄ EX. R/W S.R. 606

NORMAL GRADING LIMIT

196' - 8" TYPE C @ 1.50%

℄ CONST. S.R. 606
N 17°38'28" E

60°00'00" TANG. TO CURVE

6" SPUD

P.C. Sta. 2+15.20

P.T. Sta. 3+60.53

(SAVE)

8' CHAIN LINK FENCE

8' CHAIN LINK FENCE

EX. 6'X4' CONC. BOX CULVERT

EX. 5'X7' CMP

6"/28"

EX. 4" GAS

GAS POST MARKER

U ESMT

EX. 24" W WATER MAIN

54"

℄ GRAVEL DR. L=156'

℄ CONST. S.R. 3

MATCHLINE STA. 4+00

PAVEMENT TO BE REMOVED

670 DITCH EROSION PROTECTION

℄ CONST. S.R. 606 CURVE DATA
P.I. Sta = 2+90.39
D = 36° 12' 14" (RT)
Dc = 24° 54' 40"
R = 230.00'
T = 75.18'
L = 145.33'
E = 11.98'

B.M. STA. 2+45.09, 12.90' LT.
⅝" REBAR W/TRAV CAP
EL. = 1185.51

30' V.C.
P.V.I. STA. 1+31.36
ELEV. = 1190.80
CORR. = +0.31'

℄ CONST. S.R. 3
STA. 0+86.36

P.V.C. STA. 1+16.36
ELEV. 1189.94

P.V.T. STA. 1+46.36
ELEV. 1190.36

+5.92%

+5.44%

-2.92%

STA. 2+67.00, 40.00' LT.
STD. HEADWALL HW-2.1 OR 2.2
℄ 18" (W) EL 184.20

146' - 18" TYPE C @ 1.5%

6" SPUD

EX. 4" GAS

900' V.C.
P.V.I. STA. 5+96.36
ELEV. = 1177.21

1188.22 1190.35 1190.36 1189.56 1188.92 1188.34 1187.81 1187.34 1186.93 1186.57 1186.93 1186.02 1185.83

1185.20 1185.31 1184.95 1184.73 1184.53 1183.61 1182.91

1210 1205 1200 1195 1190 1185 1180 1175 1170

1 2 3 4

REF NO.	STATION FROM	STATION TO	SIDE	602 CONCRETE MASONRY (CU YD)	603 18" CONDUIT TYPE C (FOOT)	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)	670 DITCH EROSION PROTECTION (SQ YD)
I-D	2+67.00	4+00.00	LT.	0.31	146		
I-UD	1+45.00	4+00.00	RT.			273	
I-E	2+00.00	2+67.00	LT.				56
TOTALS CARRIED TO GENERAL SUMMARY				0.4	146	273	56

HORIZONTAL SCALE IN FEET
0 10 20 40

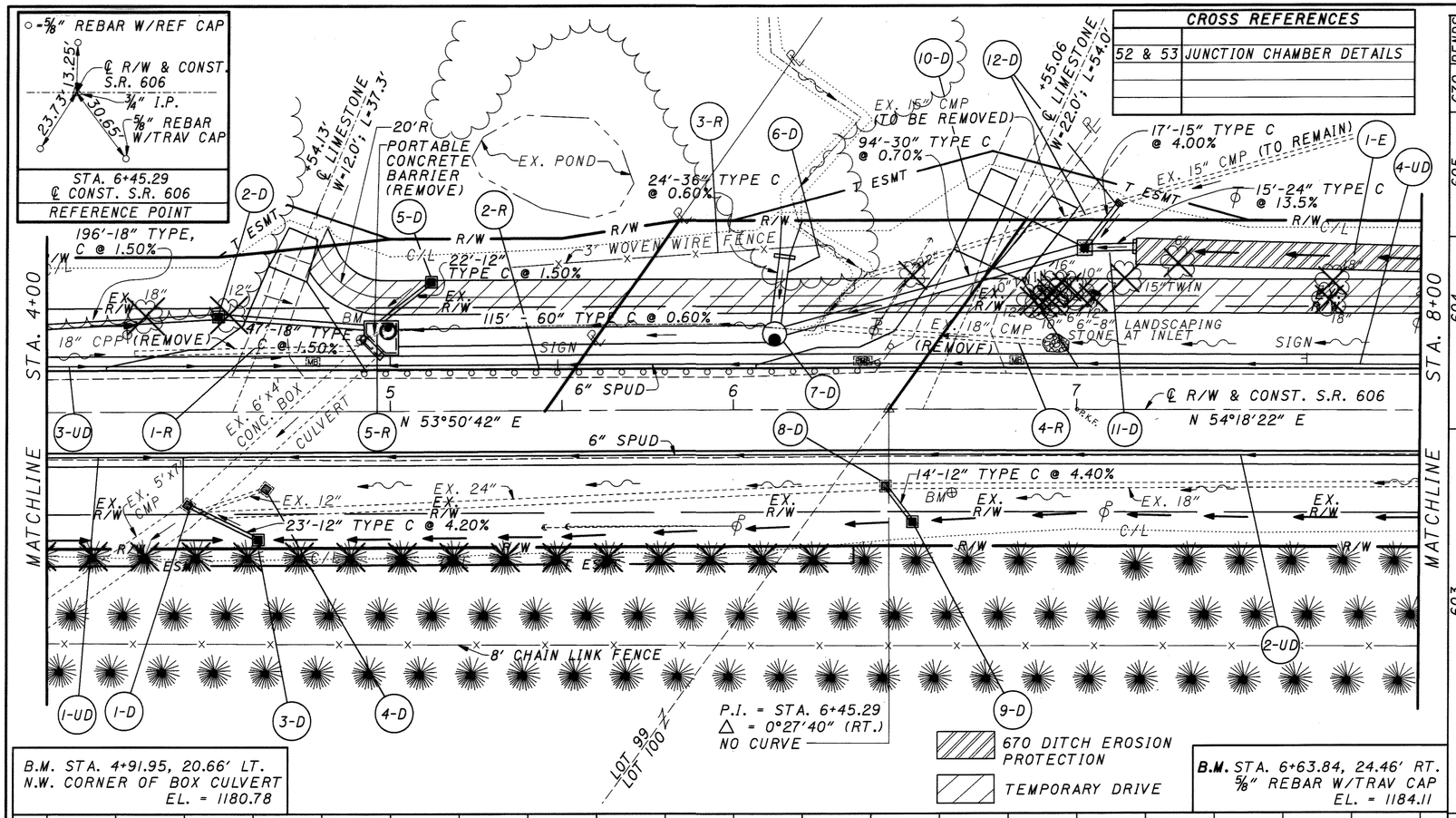
CALCULATED TM
CHECKED EEL

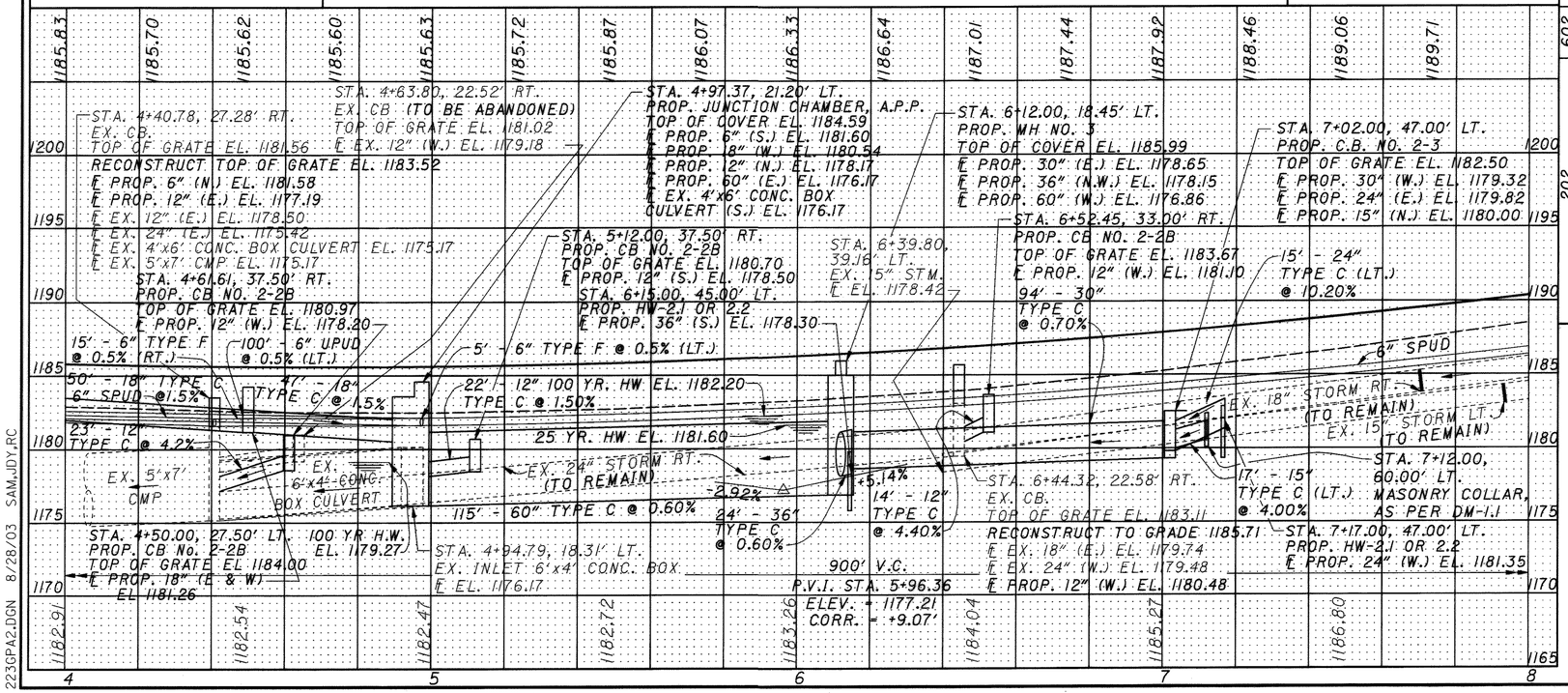
PLAN AND PROFILE
S.R. 606 STA. 0+86.36 TO STA. 4+00

MED-3-17.82

40
66

223GPAI.DGN 8/28/03 SAM,JDY,RC





REF NO.	STATION FROM	STATION TO	SIDE	603 6" x 6" x 6" TEE EACH	670 DITCH EROSION PROTECTION SQYD	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP FOOT	605 6" UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP FOOT	604 MANHOLE, NO. 3 EACH	604 CATCH BASIN RECONSTRUCTED TO GRADE EACH	604 CATCH BASIN, NO. 2-3 EACH	604 CATCH BASIN, NO. 2-2B EACH	603 60" CONDUIT, TYPE C FOOT	603 36" CONDUIT, TYPE C FOOT	603 30" CONDUIT, TYPE C FOOT	603 24" CONDUIT, TYPE C FOOT	603 18" CONDUIT, TYPE C FOOT	603 15" CONDUIT, TYPE C FOOT	603 12" CONDUIT, TYPE C FOOT	603 6" CONDUIT, TYPE F FOOT	602 CONCRETE MASONRY CU YD	202 REMOVAL MISC: PORTABLE CONC. BARRIER FOOT	202 FENCE REMOVED FOOT	202 CATCH BASIN ABANDONED EACH	202 GUARDRAIL REMOVED FOOT	202 PIPE REMOVED 24" AND UNDER FOOT
1-D	4+40.78		RT.								1					97								
2-D	4+00.00	4+97.37	LT.								1													
3-D	4+61.16	4+40.78	RT.								1							23						
4-D	4+63.80		RT.																				1	
5-D	5+12.00	4+97.37	LT.								1							22						
6-D	6+18.00	6+12.00	LT.					1												0.69				
7-D	6+12.00	4+97.37	LT.						1															
8-D	6+44.32		RT.								1													
9-D	6+52.45	6+44.32	RT.								1													
10-D	7+02.00	6+12.00	LT.								1										0.43			
11-D	7+17.00	7+02.00	LT.								1													
12-D	6+39.80	7+12.00	LT.																					75
1-E	7+17.00	8+00.00	LT.																15					
1-UD	4+00.00	4+41.00	RT.																					
2-UD	4+41.00	8+00.00	RT.																					
3-UD	4+00.00	5+00.00	LT.																5					
4-UD	5+00.00	8+00.00	LT.																					49
1-R	4+41.00	4+90.00	LT.																					
2-R	4+91.40	6+46.00	LT.																			155		
3-R	5+35.00	6+28.00	LT.																		93			
4-R	6+28.00	6+90.00	LT.																	62				
5-R	4+93.00	5+01.00	LT.																		10			
TOTALS CARRIED TO GENERAL SUMMARY				1	70	41	100	1	2	1	4	115	24	94	15	97	17	59	20	1.2	10	93	1	186

HORIZONTAL SCALE IN FEET
0 10 20 40

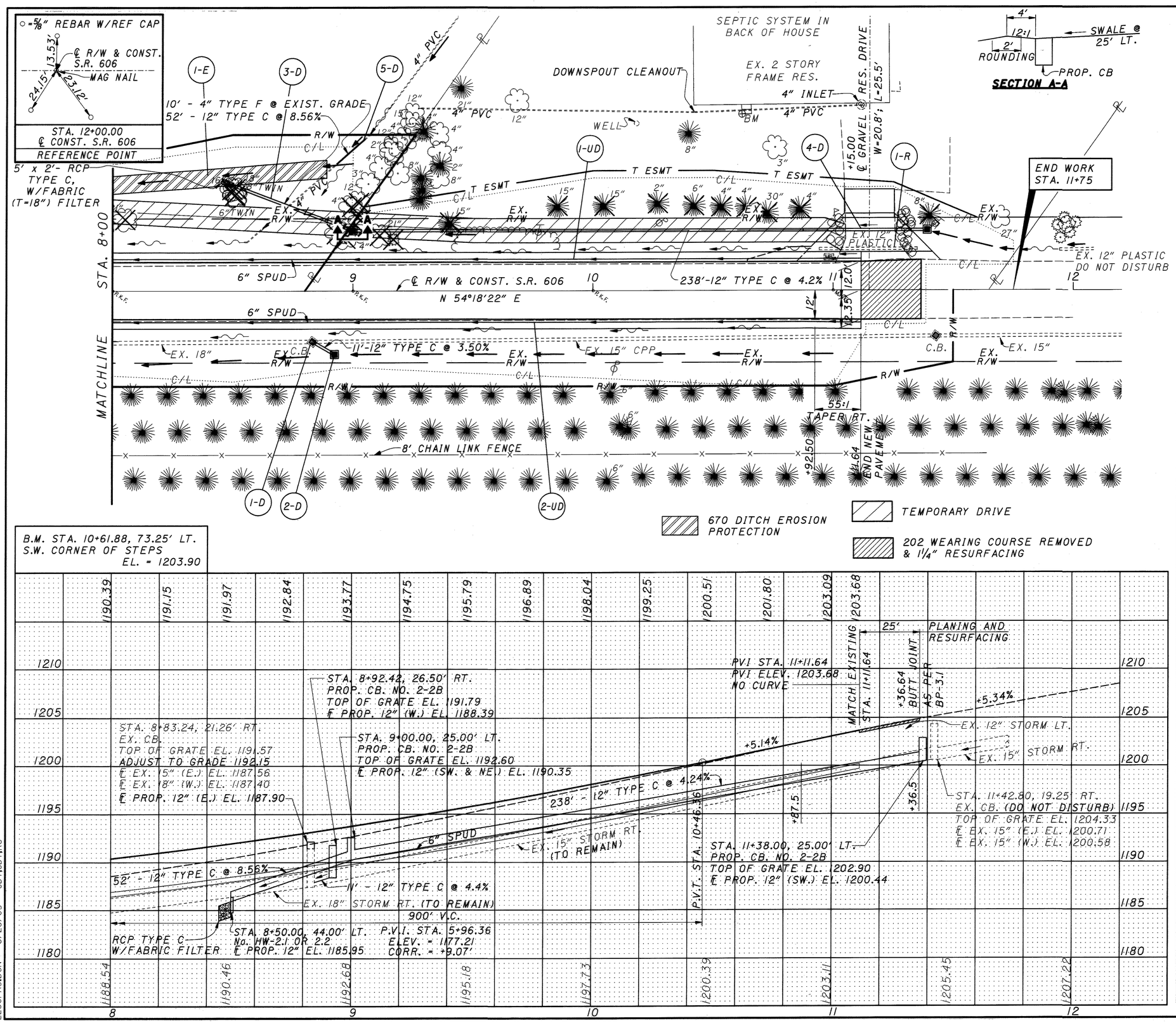
CALCULATED TM
CHECKED EEL

PLAN AND PROFILE
SR. 606 STA. 4+00 TO STA. 8+00

MED-3-17.82

41
66

223GPA2.DGN 8/28/03 SAM.JDY.RC



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" AND UNDER FOOT	601 ROCK CHANNEL PROTECTION, TYPE C W/ FILTER FABRIC CU YD	603 4" CONDUIT, TYPE F FOOT	603 12" CONDUIT, TYPE C FOOT	604 CATCH BASIN, NO. 2-2B EACH	604 CATCH BASIN, ADJUSTED TO GRADE EACH	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP FOOT	670 DITCH EROSION PROTECTION SQ YD
1-R	10+94.00	11+35.00	LT.	41							
1-D	8+83.24		RT.						1		
2-D	8+92.42	8+83.24	RT.				11	1		312	
3-D	8+50.00	9+00.00	LT.		0.56		52	1		312	
4-D	9+00.00	11+38.00	LT.				238	1			
1-UD	8+00.00	11+11.64	LT.								75
2-UD	8+00.00	11+11.64	RT.			10					
5-D	8+92.00	9+00.00	LT.								
1-E	8+00.00	8+89.00	LT.								
TOTALS CARRIED TO GENERAL SUMMARY				41	1	10	301	3	1	624	75

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED TM
CHECKED EEL

PLAN AND PROFILE
STA. 8+00 TO STA. 12+00
S.R. 606

MED-3-17.82

42
66

223GPA3.DGN 8/28/03 JDY,JDY,RC

SEEDING	
END WIDTH	SQ. YDS.
53.0	
45.5	
	86.0
45.5	
	287.4
57.9	
65.4	
	306.7
45.0	
	90.0
0	
	770.1

AH +67
BK +67

EX. R/W

DITCH EROSION PROTECTION

10:1

6:1

4:1

1184.8

℄ CONSTRUCTION

EX. R/W

1187.81
2+50.00
1184.72

PR. R/W

PROP. 6" UD

EX. R/W

DITCH EROSION PROTECTION

4:1

6:1

1186.0

1188.92
2+00.00
1185.37

AH
BK

4:1

4:1

1187.4

1190.26
1+50.00
1185.22

M/L S.R. 3

PROP. 6" UD

M/L S.R. 3

AHEAD

1189.80
1+14.07
1185.31

SKEW ALONG EP S.R. 3

358.7 x SIN 60° - 310.6

M/L S.R. 3

1195
1190
1185
1180
1175

50 40 30 20 10 0 10 20 30 40 50

SHEET TOTAL

END AREA		VOLUME	
CUT	FILL	CUT	FILL
29	122		
		45	279
19.8	179.4		
		29	489
11.2	348.9		
		8	439
AH 0.0	310.6		
BK 0.0	0.0		
		82	1207

CALCULATED T M
CHECKED E E L

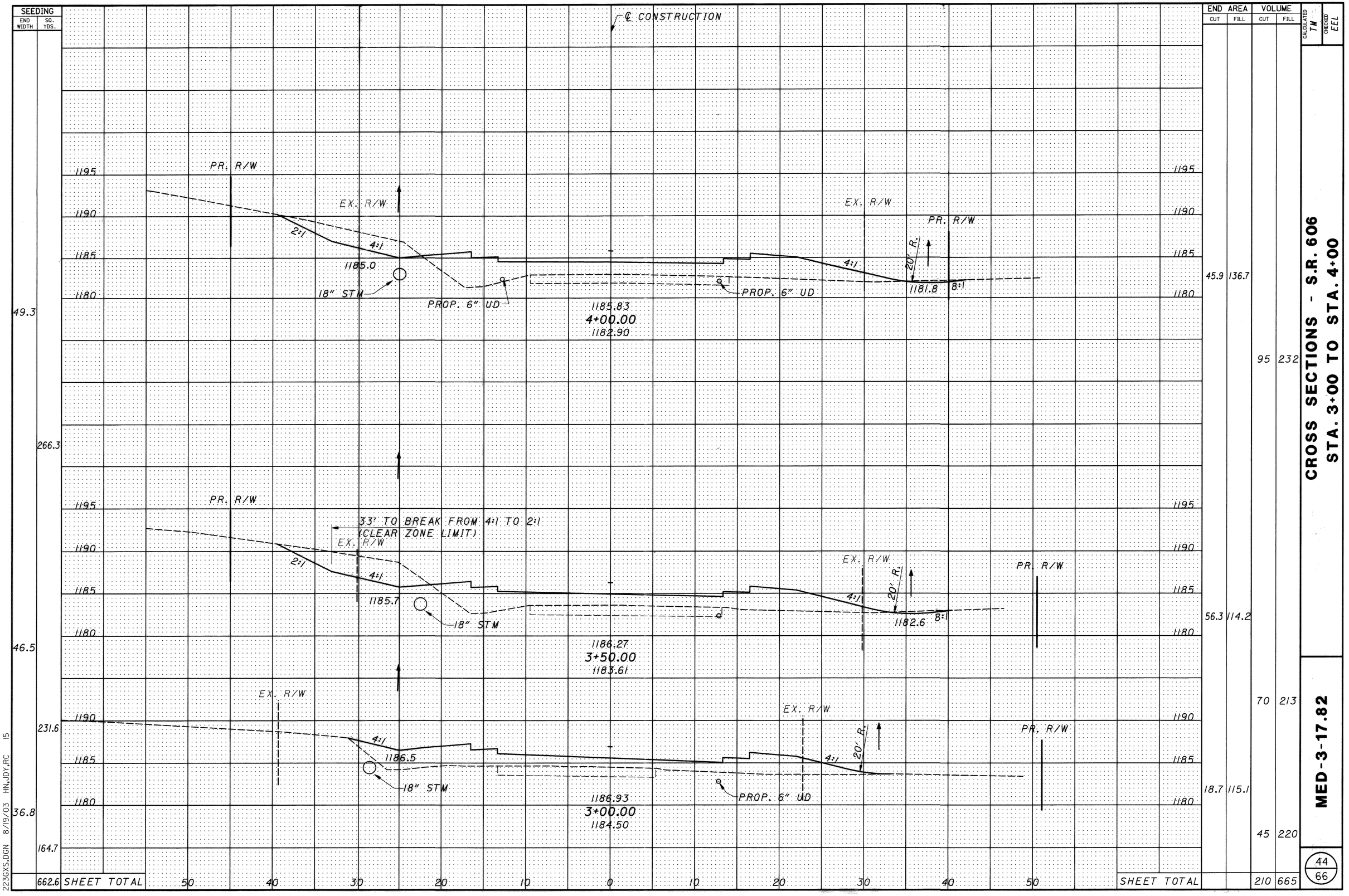
CROSS SECTIONS - S.R. 606
STA. 1+14 TO STA. 2+50

MED-3-17.82

43
66

223GXS.DGN 8/19/03 HN,JDY,RC 14

SEEDING	
END WIDTH	SQ. YDS.
49.3	
	266.3
46.5	
	231.6
36.8	
	164.7
	662.6



END AREA		VOLUME	
CUT	FILL	CUT	FILL
45.9	136.7		
		95	232
56.3	114.2		
		70	213
18.7	115.1		
		45	220
		210	665

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 606
STA. 3+00 TO STA. 4+00

MED-3-17.82

44
66

223GXS.DGN 8/19/03 HNJDY,RC 15

SEEDING	
END WIDTH	SQ. YDS.
49.6	213.8
27.3	212.9
	426.7

END AREA		VOLUME	
CUT	FILL	CUT	FILL
26.8	220.8	50	338
26.5	144.3	67	261
		117	599

CALCULATED TM

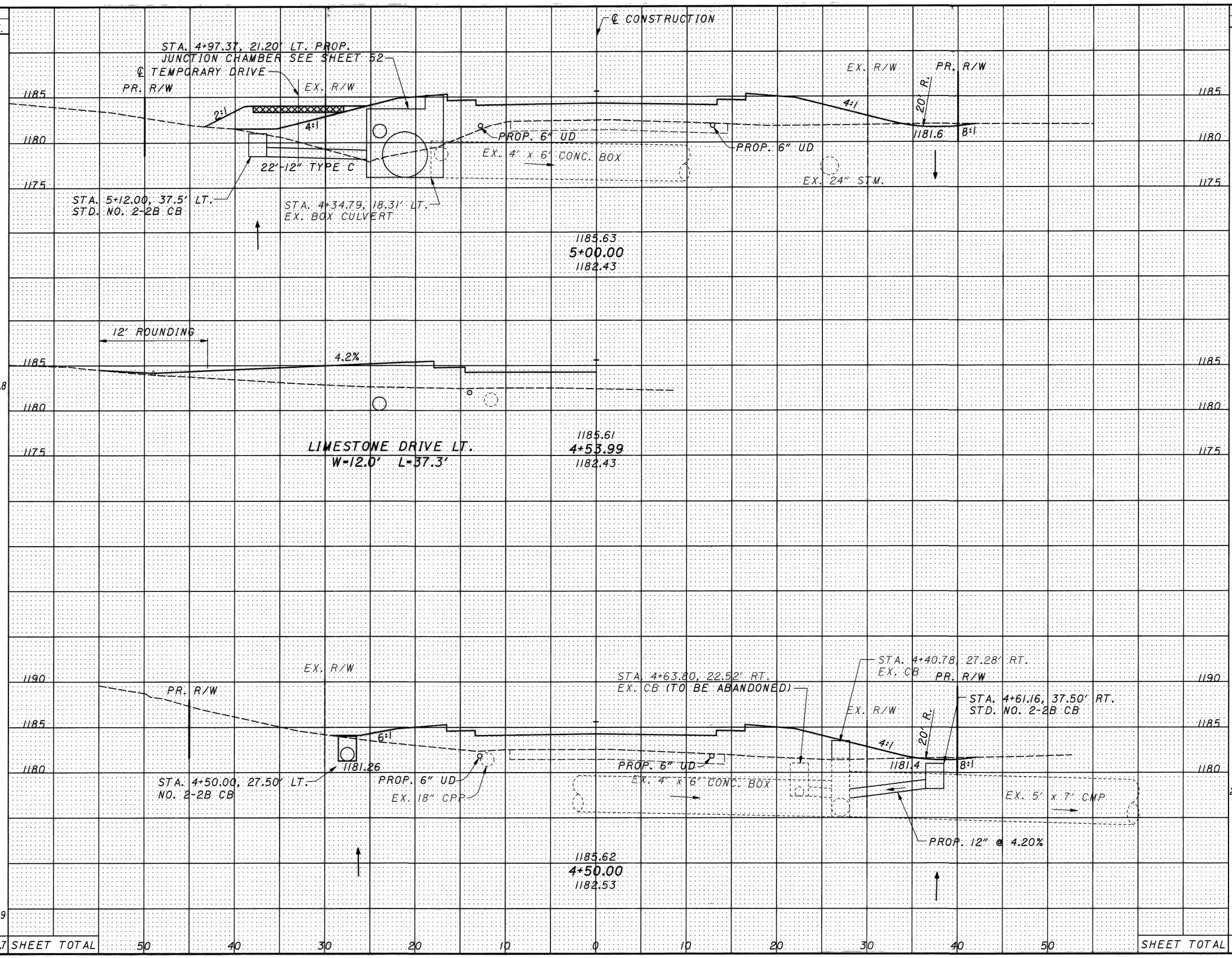
CHECKED EEL

CROSS SECTIONS - S.R. 606
STA. 4+50 TO STA. 5+00

MED-3-17.82

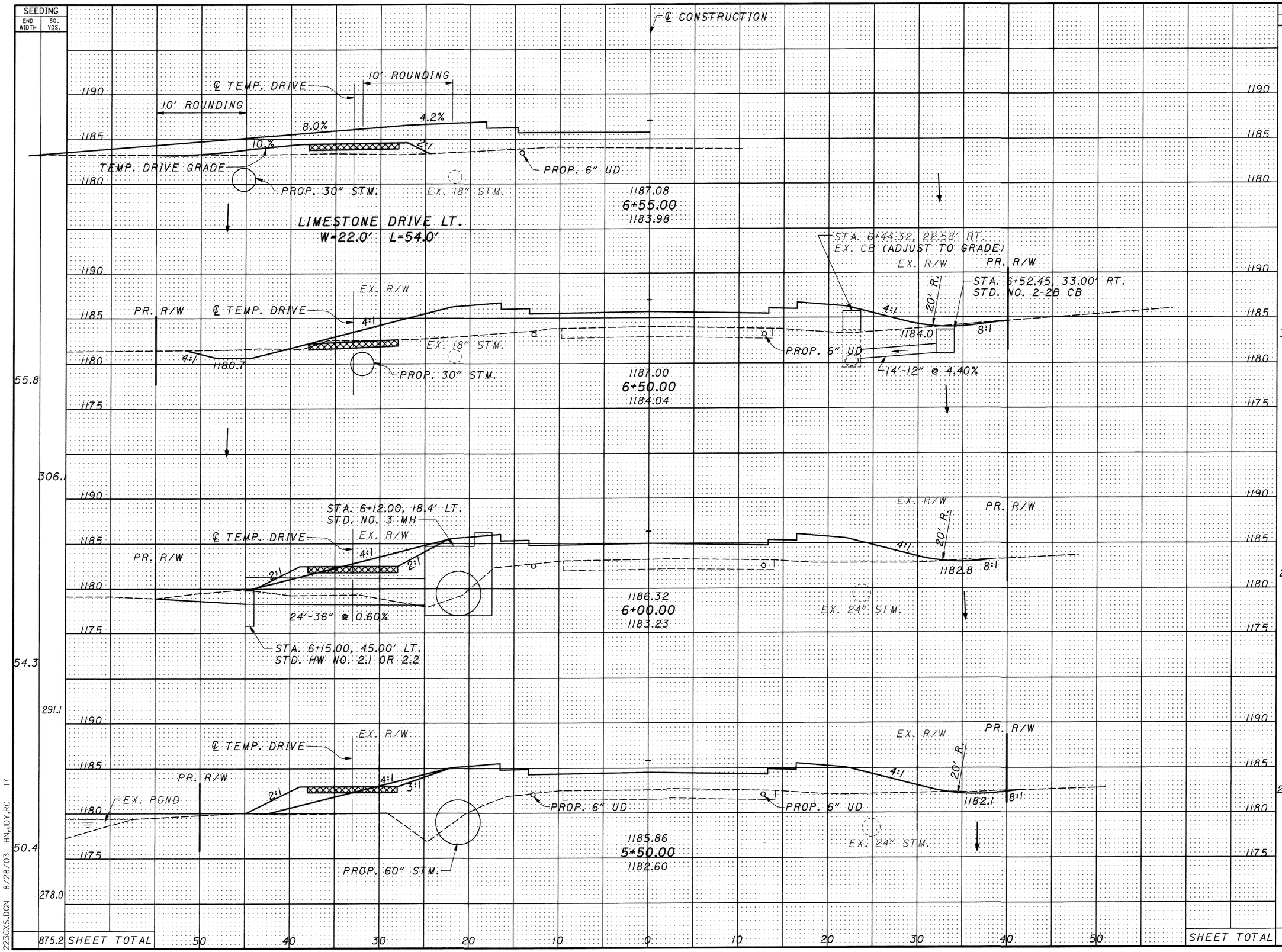
45
66

223GXS.DGN 8/19/03 HN_JDY,RC 16



50 40 30 20 10 0 10 20 30 40 50 SHEET TOTAL

SEEDING	
END WIDTH	SQ. YDS.
55.8	
306.1	
54.3	
291.1	
50.4	
278.0	
	875.2



END AREA		VOLUME	
CUT	FILL	CUT	FILL
32.0	158.3	55	349
27.1	218.2	50	403
26.8	217.0	50	335
		155	1087

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 606
STA. 5+50 TO STA. 6+55

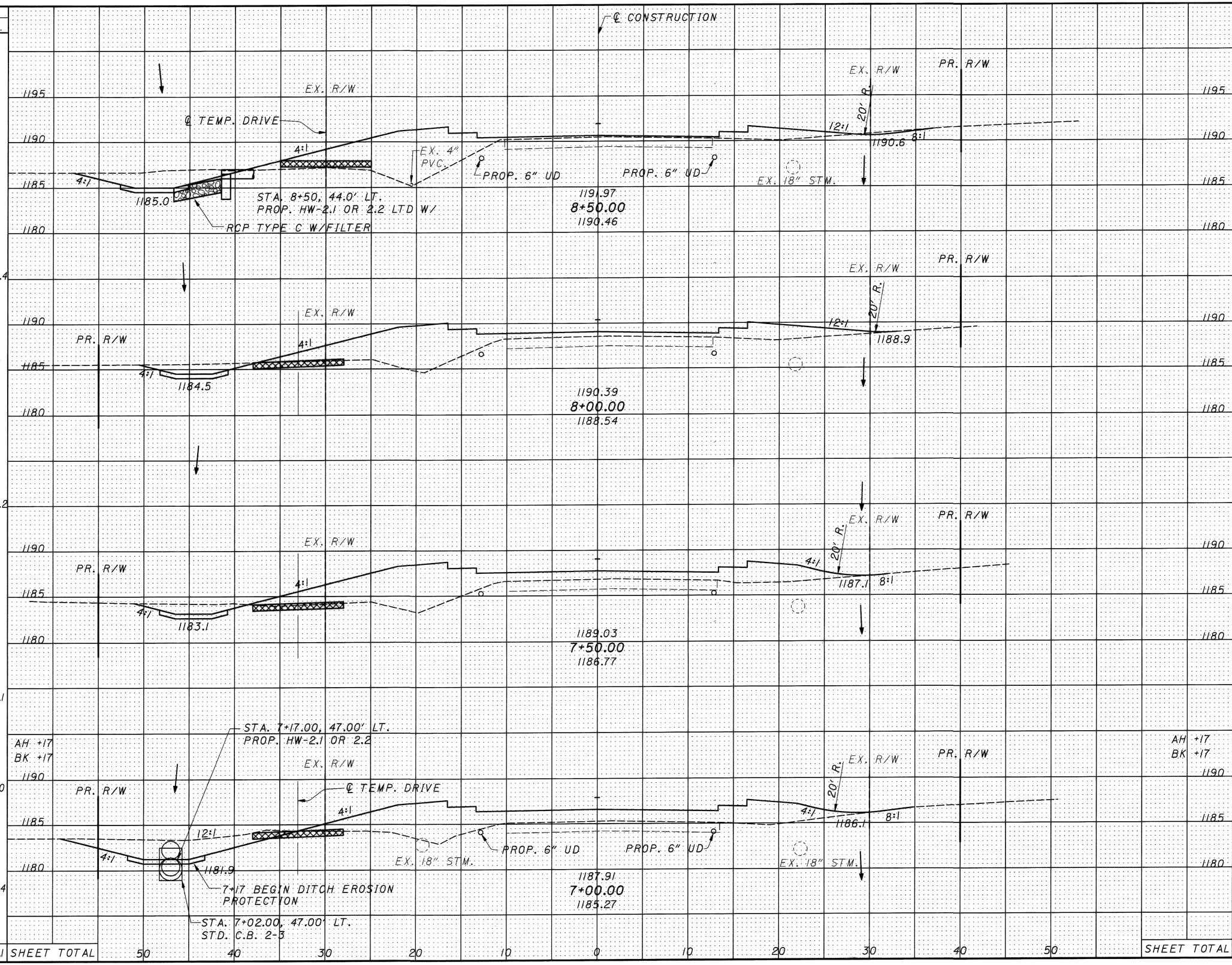
MED-3-17.82

223GXS.DGN 8/28/03 HN,JDY,RC 17

SHEET TOTAL 50 40 30 20 10 0 10 20 30 40 50 SHEET TOTAL

SEEDING END WIDTH	SEEDING SQ. YDS.
50.4	
	264.4
44.7	
	250.2
45.3	
	179.1
52.3	
59.8	
	113.0
59.8	
	321.4
	1128.1

SHEET TOTAL



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		74	215
44.4	118.1		
		65	258
34.6	113.4		
		55	171
35.0	144.1		
		17	86
54.2	135.3		
26.4	135.3		
26.4	135.3		
		54	294
		265	1024

SHEET TOTAL

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 606
STA. 7+00 TO STA. 8+50

MED-3-17.82

47
66

223GXS.DGN 8/28/03 HN.JDY.RC 18

SEEDING	
END WIDTH	SQ. YDS.
47.1	238.0
38.5	185.1
28.1	52.1
57.1	216.8
49.6	
	692.0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
69.6	5.0	99	26
37.4	22.7	58	72
24.8	54.6	14	22
43.5	52.1	64	122
		235	242

CALCULATED TM
CHECKED EEL

CROSS SECTIONS - S.R. 606
STA. 9+00 TO STA. 10+00

MED-3-17.82

48
66

℄ CONSTRUCTION
EX. R/W
℄ TEMP. DRIVE
2:1
6:1
1.5:1
1196.9
PROP. 6" UD
1198.04
10+00.00
1197.73
12:1
20' R.
EX. 18" STM.
PR. R/W
1194.7
1195.0
1195.79
9+50.00
1195.05
STA. 8+83.24, 21.26' RT.
EX. CB (ADJUST TO GRADE)
STA. 8+92.42, 26.50' RT.
STD. NO. 2-2B CB
SECTION @ 9+00
4:1
STA. 9+00, 25 LT,
PROP. CB. NO. 2-2B
SECTION @ 8+89
1186.0
8+89 END DITCH EROSION
PROTECTION
1193.77
9+00.00
1192.68
11"-12" @ 4.40%
1192.7
+89 AH
BK
SHEET TOTAL
+00
+89

223GXS.DGN 8/28/03 HN,JDY,RC 19

SEEDING END WIDTH	SEEDING SQ. YDS.
	5,269.1
0	
0	
	14.4
21.6	
48.9	
51.1	
	149.0
	278.0
	273.0
	714.4

TOTAL CARRIED TO CALCULATIONS
USE 5270 SQ. YD.

EX. R/W
℄ CONSTRUCTION
11+50.00
1205.50
END EARTH WORK
AH
BK
4:1
4:1
EX. 12" STM.
11+38.00
1204.70
STA. 11+38, 25" LT,
PROP. CB. NO. 2-2B
10' ROUNDING
4.2%
4.2%
PROP. 12" STM.
PROP. 6" UD
EX. 12" STM.
AHEAD
BACK
EX. 18" STM.
PROP. 6" UD
PR. R/W
EX. R/W
1203.68
11+11.64
1203.70
+15 GRAVEL DRIVE LT.
W=20.8' L=25.5'
EX. R/W
PR. R/W
EX. R/W
20' R.
6:1
2:1
12:1
6:1
1202.0
EX. 12" STM.
1201.9
PROP. 12" STM.
1203.09
11+00.00
1203.11
EX. R/W
PR. R/W
EX. R/W
℄ TEMP. DRIVE
2:1
6:1
1.5:1
12:1
20' R.
6:1
1199.4
EX. 18" STM.
1199.4
PROP. 12" STM.
PROP. 6" UD
1200.51
10+50.00
1200.37
PROP. 6" UD

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		1415	4836
0.0	0.0		
		6	1
23.0	4.1		
		21	2
AH 18.9	0		
BK 60.3	0		
		31	0
81.7	0.1		
		152	3
82.0	3.6		
		141	8
		351	14

TOTALS CARRIED TO GENERAL SUMMARY

SHEET TOTAL

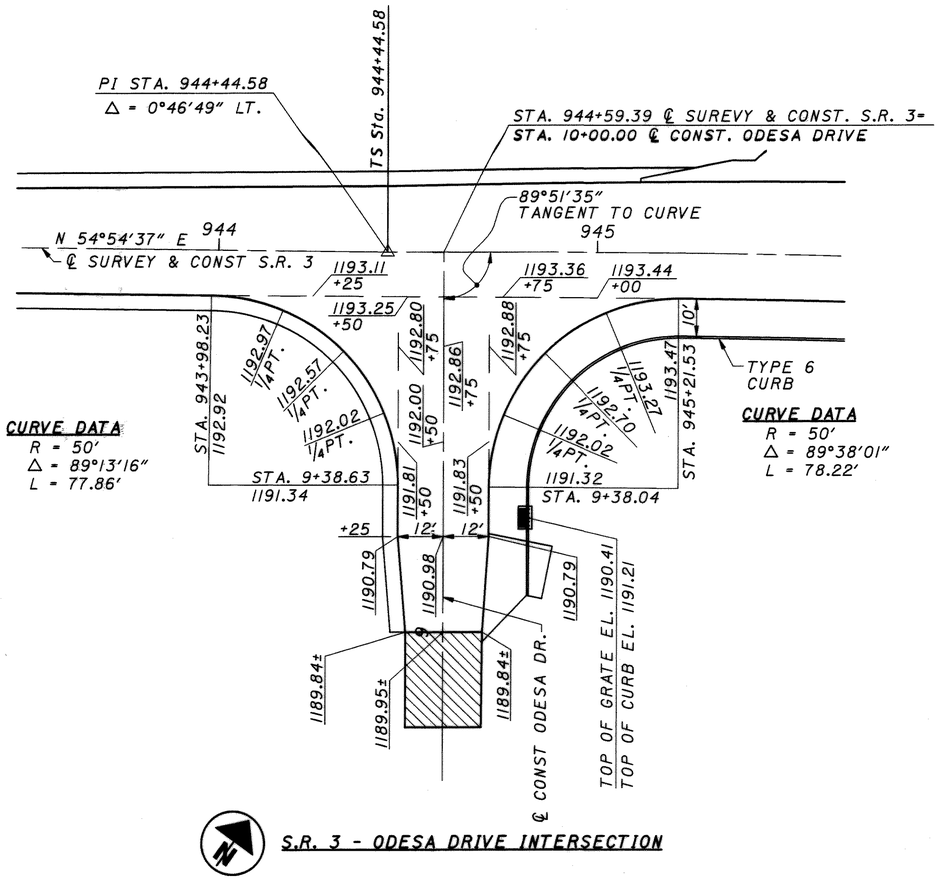
CALCULATED TM
CHECKED EEL

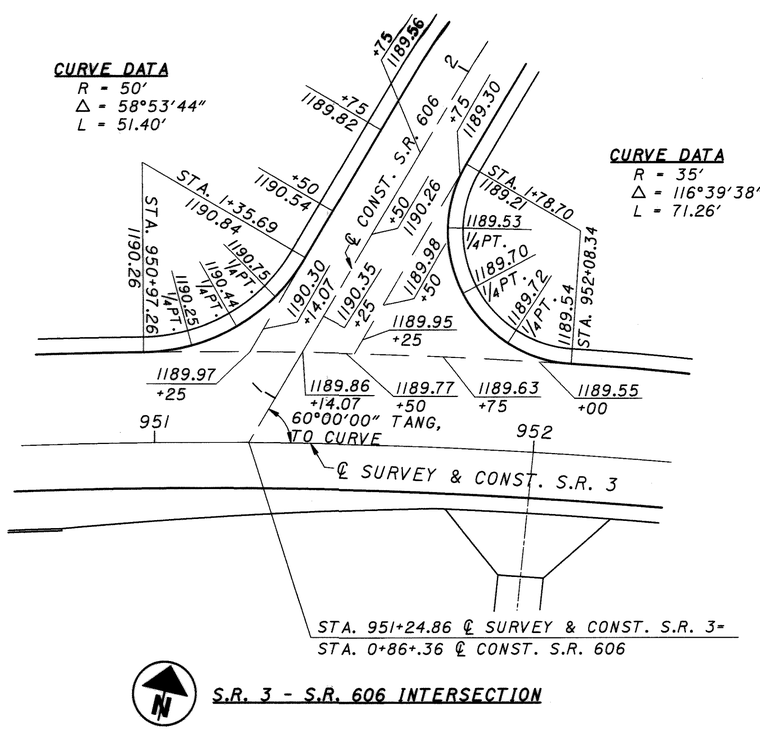
CROSS SECTIONS - S.R. 606
STA. 10+50 TO STA. 11+50

MED-3-17.82

49
66

223GXS.DGN 8/28/03 HN,JDY,RC 20





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED PDG
CHECKED EEL

S.R. 3 & ODESA DRIVE INTERSECTION DETAIL / S.R. 3 - S.R. 606 INTERSECTION DETAIL

MED-3-17.82

50
66

223GIB.DGN 8/28/03 CAR,JDY,RC

951
952
953
953
1180
1180
1185
1175
1170
1170
EX. R/W
U ESMT
W
R/W
C/L
T ESMT
+0.0, ℄ GRAVEL DR. W=12', L=156'
ITEM 603 - 54" - 12" TYPE D @ 0.40%
ITEM 601 PAVED GUTTER, TYPE 1-4; 120 FT.
ITEM 601 - RCP TYPE B WITH FABRIC FILTER 30"x15' x15'-21 CU.YD.
ITEM 601 - RCP TYPE C WITH FABRIC FILTER 18"x2'x5'; 1CU. YD.
30' R
EX. 18" CPP
EX. TWIN 36" CPP
953+16.24
EX. 6'X4' CONC. BOX
36' - 6'X4' CONC. BOX @ 0.88%
24" WATER MAIN
EL. 1172.36
EL. 1172.05
4:1
2:1
1185
1180
1175
1170
1165
20 25 30 35 40 45 50 55 60 65

FOR TEMPORARY DRIVE PROFILE SEE SHEET NO. 33

CONC. VOLUME
(1'+1.5')/2 X 5.75'X14.17' = 101.85 CU.FT.
0.5'/5.75 X 2.58' = 0.22'
(1'+1.22')/2 X 2.58' X 7.16' = -20.50 CU.FT.
81.35 CU.FT.
= 3.01 CU.YD.
USE 3.0 CU.YD.

3'-6" 3'-6" 2'-7" 5'-9" 14'-2"
HW-2.2 AS PER PLAN

12" 18"

ITEM 603 - 6'x4' CONDUIT, TYPE A, 706.05-36 FT.

BOX CULVERT PROFILE
SCALE: 1'-5'

HORIZONTAL SCALE IN FEET
0 5 10 20

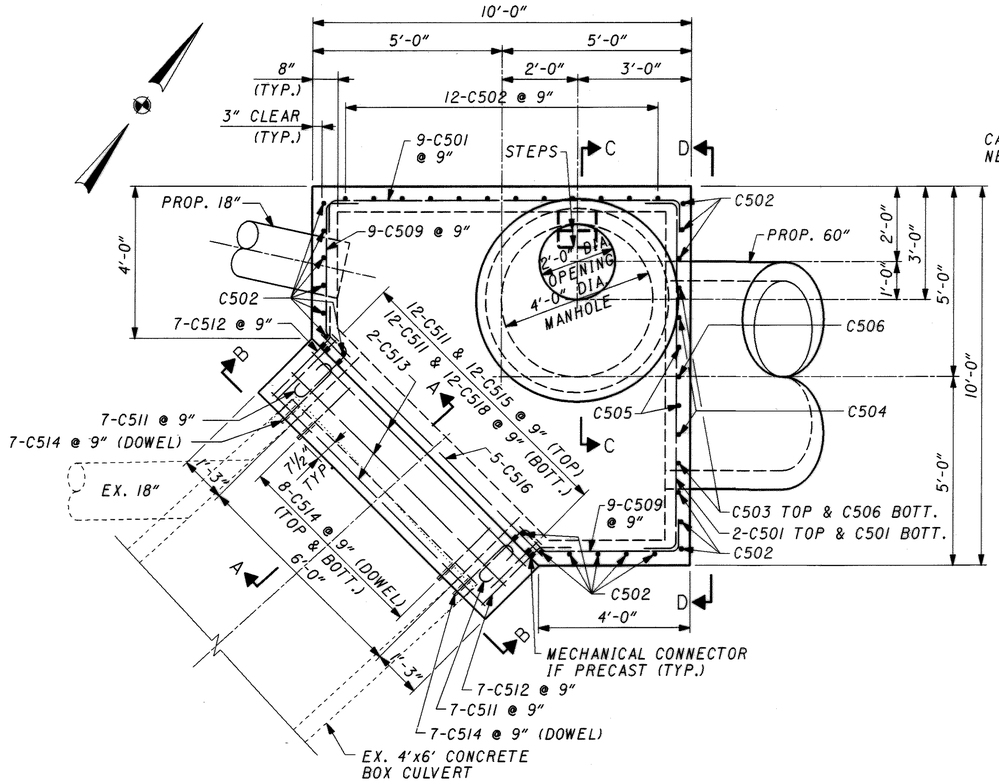
CALCULATED TM
CHECKED EEL

CULVERT DETAIL

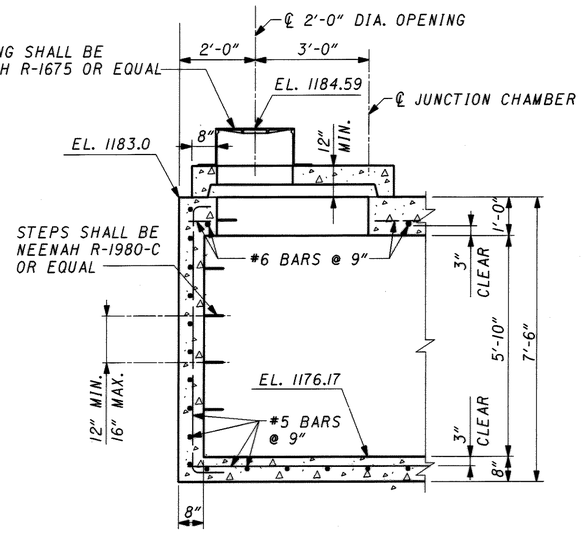
MED-3-17.82

51
66

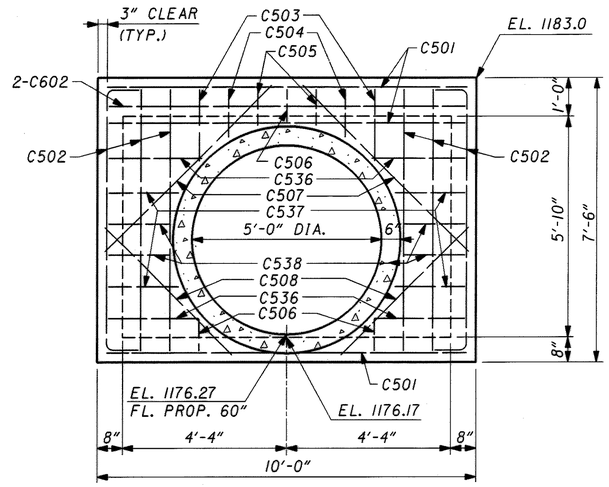
223DDA.DGN 09/11/02 CAR,RC



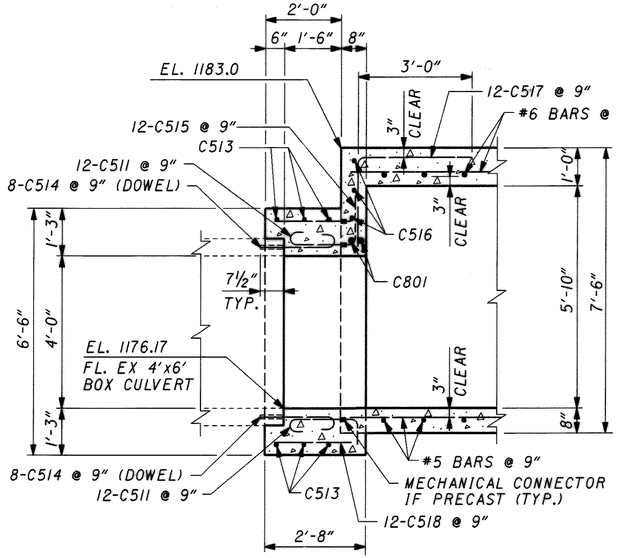
PLAN



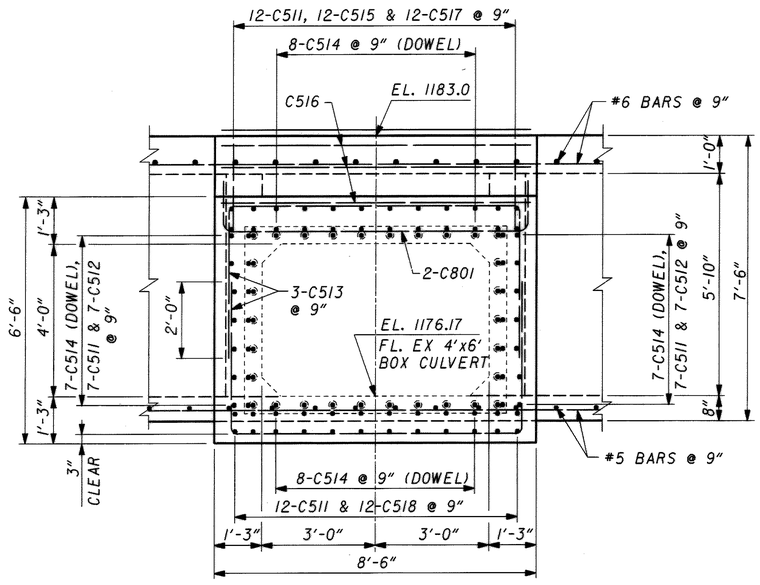
SECTION C-C



SECTION D-D



SECTION A-A



SECTION B-B

JUNCTION CHAMBER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF SITE PREPARATION, PLACEMENT AND REMOVAL OF FORMS, FURNISHING AND PLACEMENT OF REINFORCING, FURNISHING AND PLACEMENT OF CONCRETE, FURNISHING AND PLACEMENT OF THE MANHOLE TOP AND CASTING.

PAYMENT SHALL BE MADE UNDER THE UNIT PRICE BID PER EACH JUNCTION CHAMBER, AS PER PLAN, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, TOOLS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THIS ITEM OF WORK IN PLACE.

NOTES

TOP AND BOTTOM REINFORCING: SEE SHEET 53.

REINFORCING STEEL LIST: SEE SHEET 53.

RICHLAND ENGINEERING LIMITED
29 NORTH PARK STREET
MANSFIELD, OHIO 44902

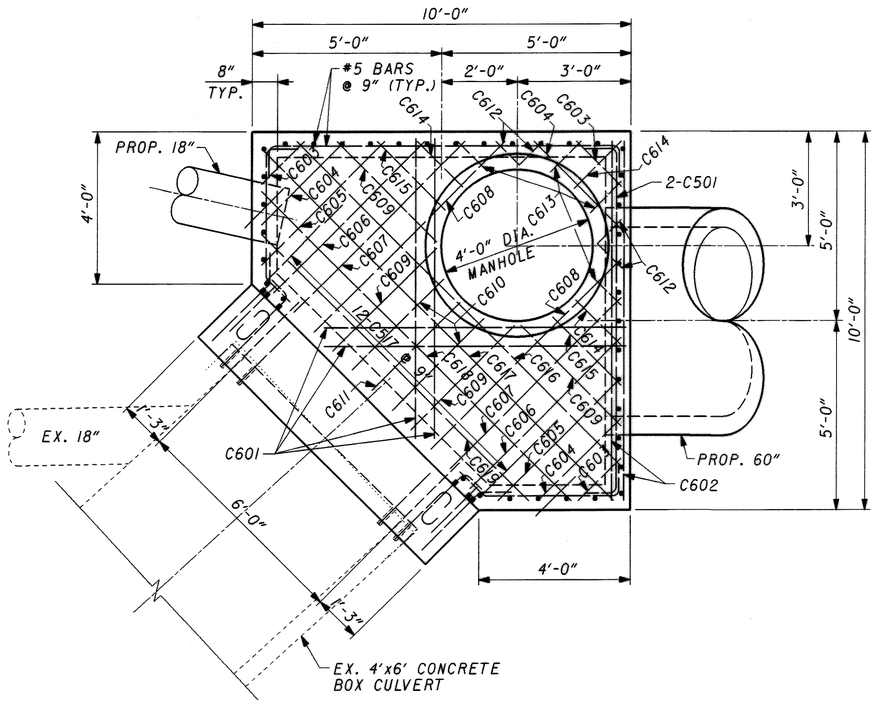
DESIGNED	DRAWN	REVIEWED	DATE
BLN	KH	EEL	6/12/02
CHECKED	REVISED	STRUCTURE FILE NUMBER	

PLAN DETAILS

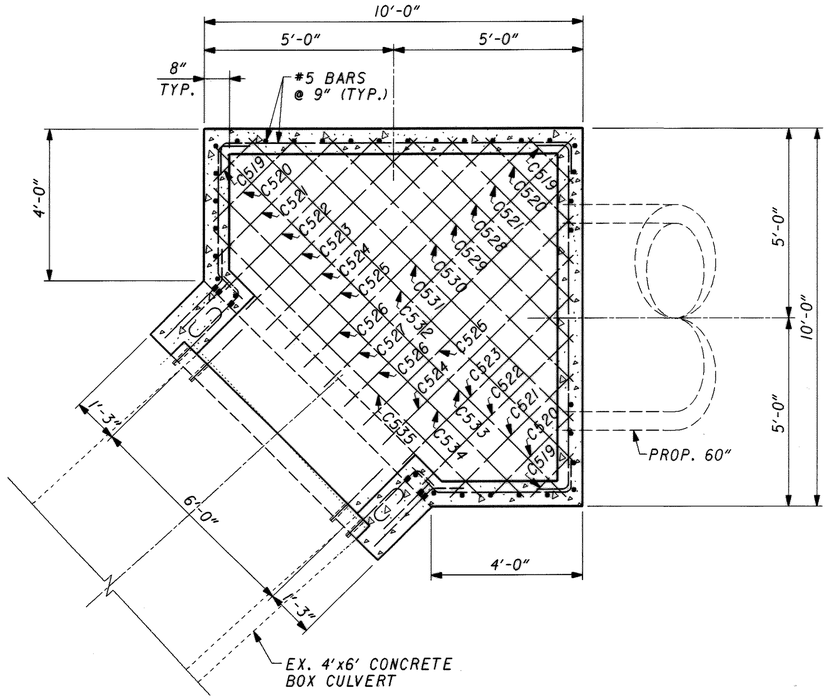
JUNCTION CHAMBER AS PER PLAN

MED-3-17.82

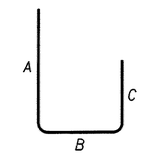
9A-223SAA.DGN 06/12/02 KH,JDY,RC
100223-9A



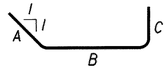
TOP REINFORCING



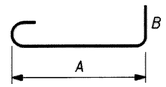
BOTTOM REINFORCING



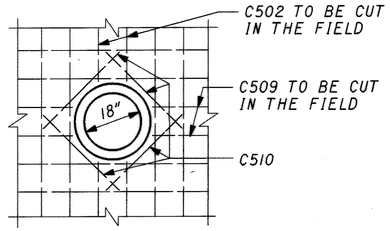
TYPE 1



TYPE 2



TYPE 3



PROPOSED 18" INLET DETAIL

REINFORCING STEEL LIST

CALCULATED KH DATE 4/02
CHECKED BLN DATE 4/02

MARK	NO.	LENGTH	TYPE	A	B	C	INC.
C501	12	10'-1"	1	10"	9'-6"	10"	
C502	28	8'-5"	1	10"	7'-0"	10"	
C503	2	2'-7"	1	10"	1'-10"	0	
C504	2	2'-0"	1	10"	1'-3"	0	
C505	2	1'-9"	1	10"	1'-0"	0	
C506	3	1'-7"	1	10"	10"	0	
C507	2	6'-3"	STR.				
C508	2	4'-9"	STR.				
C509	18	5'-0"	2	10"	3'-6"	10"	
C510	4	2'-10"	STR.				
C511	38	3'-1"	3	1'-9"	10"		
C512	14	3'-0"	2	10"	2'-3"	0	
C513	6	15'-9"	1	4'-0"	8'-0"	4'-0"	
C514	30	2'-7"	3	2'-0"	0		
C515	12	2'-9"	1	2'-2"	10"	0	
C516	3	8'-3"	STR.				
C517	12	5'-3"	1	2'-4"	3'-0"	0	
C518	12	2'-2"	STR.				
C519	3	1'-7"	STR.				
C520	3	3'-3"	STR.				
C521	3	4'-7"	STR.				
C522	2	5'-8"	STR.				
C523	2	6'-5"	STR.				
C524	2	7'-2"	STR.				
C525	2	7'-10"	STR.				
C526	2	8'-7"	STR.				
C527	1	9'-4"	STR.				
C528	1	6'-2"	STR.				
C529	1	7'-8"	STR.				
C530	1	9'-2"	STR.				
C531	1	10'-7"	STR.				
C532	1	12'-2"	STR.				
C532	1	13'-2"	STR.				
C534	1	11'-7"	STR.				
C535	1	10'-0"	STR.				
C536	4	3'-3"	1	10"	2'-6"	0	
C537	4	2'-8"	1	10"	1'-11"	0	
C538	4	2'-5"	1	10"	1'-8"	0	
C601	4	8'-0"	STR.				
C602	2	9'-6"	STR.				
C603	3	1'-7"	STR.				
C604	3	3'-3"	STR.				
C605	2	4'-7"	STR.				
C606	2	5'-8"	STR.				
C607	2	6'-5"	STR.				
C608	2	7'-2"	STR.				
C609	4	3'-10"	STR.				
C610	2	3'-6"	STR.				
C611	1	3'-3"	STR.				
C612	4	11"	STR.				
C613	4	1'-2"	STR.				
C614	3	1'-9"	STR.				
C615	2	2'-7"	STR.				
C616	1	12'-2"	STR.				
C617	1	13'-2"	STR.				
C618	1	11'-7"	STR.				
C619	1	10'-0"	STR.				
C801	2	10'-6"	1	1'-4"	8'-3"	1'-4"	

ALL REINFORCING STEEL SHALL BE EPOXY COATED.

RICHLAND ENGINEERING LIMITED
29 NORTH PARK STREET
MANSFIELD, OHIO 44902

DESIGNED BLN | DRAWN KH | REVIEWED | DATE
CHECKED | REVISED | STRUCTURE FILE NUMBER

PLAN DETAILS

JUNCTION CHAMBER AS PER PLAN

MED-3-17.82

53
66

9A-223SAA.DGN 06/12/02 KH,RC

100223-9A

SIGNING LEGEND

- PROPOSED SIGN
- EXISTING SIGN TO REMAIN (NO WORK)
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN LOCATIONS
- PROPOSED SIGN LOCATIONS

MATCHLINE 3+00.00

℄ CONST. S.R. 606
℄ CONST. S.R. 3

BEGIN ISLAND MARKING +40

BEGIN PAVEMENT MARKINGS STA. 940+85

END ISLAND MARKING STA. 958+00.00

END PAVEMENT MARKINGS STA. 958+75

℄ ODESA DRIVE

METHUEN RD. D-14

ODESA DR. D-14 STA. 945+00

STOP R-1-36 STA. 964 ℄ ODESA DR.

JCT M-17-24 606 M-2-24-3 STA. 943+50

N-45-12 STA. 943+40

R-3JC-30 STA. 948+50

IM-8-24 IM-5-24-3 IM-26-21 STA. 950+00

M-2-24-3 STA. 951+45

M-2-24-3 STA. 951+20

D-14 STA. 951+10

M-2-24-2 STA. 953+50

M-2-24-3 STA. 957+50

M-45-36 STA. 8+40

M-2-24-2 STA. 6+30

℄ CONST. S.R. 606

1 WAY (WHITE) RPMS 5 @ 80' C/C

1 WAY (WHITE) RPMS @ 40' C/C

MATCHLINE 3+00.00

4- 2 WAY (YELLOW/YELLOW) @ 40' C/C

ISLAND DETAIL

24" TRANSVERSE LINE, YELLOW

45°

4" SPACE

12' c/c

4" CENTERLINE, SOLID DOUBLE (B)

PAVEMENT MARKING LEGEND

- (A) 642 EDGE LINE, WHITE
- (B) 642 CENTERLINE, SOLID DOUBLE
- (C) 644 CHANNELIZING LINE
- (D) 644 TRANSVERSE LINE, YELLOW
- (E) 644 STOP LINE
- (F) 644 LANE ARROW
- (G) 644 WORD ON PAVEMENT, 96"

⇦ TRAFFIC DIRECTION

RAISED PAVEMENT MARKER (RPM) LEGEND

- 2 WAY (WHITE/RED) @ 40' C/C
- 2 WAY (YELLOW/YELLOW) @ 80' C/C EXCEPT AS NOTED
- 1 WAY (WHITE) SPACED AS SHOWN

NOTE: SEE STANDARD CONSTRUCTION DRAWINGS TC-65.10, TC-65.11, TC-65.12, TC-71.10M AND TC-73.10 FOR ADDITIONAL DETAILS.

SEE SHEET NO. 56 FOR SIGNING QUANTITIES.
SEE SHEET NO. 55 FOR PAVEMENT MARKING QUANTITIES

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED EEL CHECKED PDG

PAVEMENT MARKING AND SIGNING PLAN

MED-3-17.82

223TPA.DGN 8/19/03 CAR.JDY.RC

PAVEMENT MARKING QUANTITIES

LOCATION	STATION LIMITS	SIDE	621 RAISED PAVEMENT MARKERS			642		644				
			ONE WAY WHITE	TWO WAY YELLOW/YELLOW	TWO WAY WHITE/RED	EDGE LINE, WHITE	CENTER LINE, SOLID DOUBLE	CHANNELIZING, LINE	TRANSVERSE LINE, YELLOW	STOP LINE	LANE ARROW	WORD ON PAVEMENT, 96"
			EACH			LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH
S.R. 3	940+85 TO 958+75	LT				1790						
S.R. 3	940+85 TO 958+75	RT				1790						
S.R. 3	940+85 TO 944+30	℄ & LT		9			635		84			
S.R. 3	944+87 TO 948+50	℄ & LT		12			726		381			
S.R. 3	948+50 TO 951+00	℄			7			250				
S.R. 3	948+50 TO 951+00	LT		4			250				2	1
S.R. 3	951+95 TO 958+75	℄ & LT		16			1285		425			
ODESA DR.	9+25 TO 9+84	℄					59					
ODESA DR.	9+84	RT								36		
ODESA DR.	9+25 TO S.R. 3	LT & RT				200						
S.R. 606	1+19	LT								23		
S.R. 606	1+19 TO 11+37	℄		15			1018					
S.R. 606	1+19 TO 11+37	LT	16			1018						
S.R. 606	S.R. 3 TO 11+37	RT				1028						
SUB-TOTALS			16	56	7	5826	3973	250	890	59	2	1
TOTALS TO GENERAL SUMMARY			79			1.10 MILE	0.75 MILE	250	890	59	2	1

CALCULATED TW
CHECKED EEL

MED-3-17.82

223PMQ.DGN 06/13/02 JDY.CAR.RC

SIGNING QUANTITIES

CALCULATED PDG 4/02 CHECKED TM

630

REF. NO.		STATION	LOCATION	SIDE		NO. OF SUPPORTS	SIGN SIZE	SIGN SQ. FT.	SIGN CODE NO.	GROUND MOUNTED SUPPORT			STREET NAME SIGN SUPPORT, NO. 2 POST		SIGN, FLAT SHEET, TYPE G	SIGN, DOUBLE FACED, STREET NAME, TYPE G	SIGN, DOUBLE FACED, MILE MARKER, TYPE G			REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL			
										NO. 2 POST	NO. 3 POST														
							INCHES			LIN. FT.			FOOT		SQ. FT.	EACH	EACH			EACH	EACH			
1		943+40	S.R. 3	RT		1	12 X 12	1.0	N-45-12	7.5							1							
2		943+50	S.R. 3	RT		1	24 X 12	2.0	M-17-24		13				2									
							30 X 24	5.0	M-2-24-3						5									
3		9+64	ODESA DR.	RT		1	36 X 36	9.0	R-1-36		14				9									
4		945+00	S.R. 3	RT		1	24 X 8	1.33	D-14				13			1								
							24 X 8	1.33	D-14							1								
5		948+50	S.R. 3	RT		1	30 X 30	6.25	R-310-30	12.5					6.25									
6		950+00	S.R. 3	RT		1	24 X 12	2.0	IM-8-24		13				2									
							30 X 24	5.0	M-5-24-3						5									
							21 X 15	2.19	IM-26-21						2.19									
7		950+00	S.R. 3	RT		1	24 X 24	4.0	M-2-24-2		14				4									
							21 X 15	2.19	M-26-21						2.19									
8		950+25	S.R. 3	LT		1	24 X 12	2.0	M-38-24	12.5					2									
							24 X 24	4.0	M-2-24-2						4									
9		951+10	S.R. 3	LT		1	24 X 8	1.33	D-14				13			1								
							24 X 8	1.33	D-14							1								
10		951+20	S.R. 3	LT		1	30 X 24	5.0	M-2-24-3		12.5				5									
							21 X 15	2.19	M-24R-21						2.19									
11		951+45	S.R. 3	RT		1	30 X 24	5.0	M-2-24-3		12.5				5									
							21 X 15	2.19	M-24L-21						2.19									
12		953+50	S.R. 3	RT		1	24 X 12	2.0	M-37-24	12.5					2									
							24 X 24	4.0	M-2-24-2						4									
13		957+50	S.R. 3	LT		1	24 X 12	2.0	M-17-24		12.5				2									
							30 X 24	5.0	M-2-24-3						5									
14		1+25	S.R. 606	LT		1	36 X 36	9.0	R-1-36		12.5				9									
15		2+75	S.R. 606	RT		1	24 X 12	2.0	M-37-24		12.5				2									
							30 X 24	5.0	M-2-24-3						5									
16		6+30	S.R. 606	LT		1	24 X 12	2.0	M-17-24	12.5					2									
							24 X 24	4.0	M-2-24-2						4									
17		8+40	S.R. 606	LT		1	36 X 36	9.0	W-45A-36		14				9									
		VARIOUS	S.R. 3 - EXIST. SIGN REMOVALS																		34	18		
		VARIOUS	S.R. 606 - EXIST. SIGN REMOVALS																		10	5		
		VARIOUS	ODESA DR. - EXIST. SIGN REMOVALS																		1	1		
TOTALS CARRIED TO GENERAL SUMMARY										58	131		26		102	4	1				45	24		

MED-3-17.82

223TDB.DGN 09/11/02 JDY.RC.JDY

LOTS 99 & 100, T4, R13 HINCKLEY TOWNSHIP
LOTS 2 & 3, T3, R13 GRANGE TOWNSHIP
MEDINA CO.
STATE OF OHIO

MONUMENTS TO BE SET DURING CONSTRUCTION					
POINT	STATION	DISTANCE FROM ℄ SURVEY		ADJUSTABLE ℄ MONUMENT	RIGHT OF WAY MONUMENT
		LEFT	RIGHT		
S.R. 3					
T.S.	944+44.58			1	
S.R. 3 P.I.	949+87.18	70.01			1
S.R. 606 INTERSECTION	951+24.86			1	
S.T.	954+96.76			1	
S.R. 606 P.I.	2+90.39	11.98		1	
		TOTAL		4	1

NOTES:
STATIONING BASED ON SLM OF 17.99 = 949+87.18 AT THE S.R. 3 PI.

THE STATIONS REFERRED TO HEREIN ARE FROM THE EXISTING CENTERLINE OF RIGHT OF WAY.

ADJUSTABLE CENTERLINE MONUMENT ASSEMBLIES ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1 (REV. 4-29-99) OF THE OHIO DEPARTMENT OF TRANSPORTATION. THE PLACING OF THE MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AND ARE TO BE SET, AS SHOWN BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION. ANY ALTERATIONS, WITH PRIOR APPROVAL OF THE OHIO DEPARTMENT OF TRANSPORTATION, SHALL BE NOTED AND O.D.O.T. SHALL BE NOTIFIED OF THE NEW LOCATIONS.

MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ◦M.N.F. -MAG NAIL FOUND
- ✖ -MAG NAIL SET
- ⊙I.R.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ⌀ -RAILROAD SPIKE FOUND
- ◦P.K.F. -P.K. NAIL FOUND

BEGIN PROJECT
STA. 941+10.00 ℄ CONST.
S.L.M. 17.82

SOUTH LINE OF LOT 99
NORTH LINE OF LOT 1

S. LINE HINCKLEY TWP.
N. LINE GRANGER TWP.

NORTH LINE LOT 2
℄ EX. R/W S.R. 3

EAST LINE OF LOT 1
WEST LINE OF LOT 2

EAST LINE OF LOT 99
WEST LINE OF LOT 100

EAST LINE OF LOT 2
WEST LINE OF LOT 3

SOUTH LINE OF LOT 100

NORTH LINE OF LOT 3

SPIRAL 1 CURVE DATA

P.I. Sta = 945+67.94
Ls = 185.00′
fs = 3° 42′ 00″
LT = 123.36′
ST = 61.69′
x = 184.92′
y = 3.98′
k = 92.49′
p = 1.00′
CHD BRG = N 65°21′48″ E
CHD LEN = 184.97′

CURVE 4 CURVE DATA

P.I. Sta = 2+90.39
Δ = 36° 12′ 14″ (RT)
Dc = 24° 54′ 40″
R = 230.00′
T = 75.18′
L = 145.33′
E = 11.98′
CHD BRG = N 35°44′35″ E
CHD LEN = 142.93′

CURVE 2 CURVE DATA

P.I. Sta. 949+87.18
Δ = 34°51′59″ (RT)
Dc = 4°00′00″
R = 1,432.39′
Ls = 185.00′
Theta = 3°42′00″
LT = 123.36′
ST = 61.69′
x = 184.92′
y = 3.98′
k = 92.49′
p = 1.00′
Dc = 27°27′59″ (RT)
Lc = 686.66′
Ts = 542.60′
Es = 70.01′
CHD BRG = N 71°33′48″ E
CHD LEN = 680.10′

EX. ℄ R/W CURVE 5 DATA

Δ = 34° 51′ 59″ (RT)
Dc = 10° 07′ 19″
R = 566.05′
T = 177.75′
L = 344.46′
CHD BRG = N 71°33′48″ E
CHD LEN = 339.17′

SPIRAL 3 CURVE DATA

P.I. Sta = 953+77.93
Ls = 185.00′
fs = 3°42′00″
LT = 123.36′
ST = 61.69′
x = 184.92′
y = 3.98′
k = 92.49′
p = 1.00′
CHD BRG = N 87°45′47″ E
CHD LEN = 184.97′

P.I. STA. 6+45.29. S.R. 606 ℄ R/W & CONST.
¾" IRON PIN FND. Δ = 0°27′40″ RT. NO CURVE

℄ SURVEY, EX. R/W & CONST. S.R. 606

P.I. STA. 2+90.38,
℄ SURVEY & CONST. S.R. 606

℄ SURVEY & CONST. S.R. 606
STA. 951+24.86 ℄ SURVEY & CONST. S.R. 3
STA. 0+86.36 ℄ SURVEY & CONST. S.R. 606

P.I. STA. 949+87.18 ℄ SURVEY & CONST. S.R. 3
P.I. STA. 949+87.18 S.R. 3 ℄ R/W
STA. 0+00 ℄ R/W S.R. 606 R.R. SPIKE FND.

STA. 948+75.90, 20.57′ LT.
℄ R/W S.R. 3 IRON PIN FND.

STA. 944+44.58 ℄ EX. R/W
T.S. STA. 944+44.58
P.I. ℄ CONST. Δ = 0°46′48″ LT.
NO CURVE

P.O.T. STA. 944+22.82
℄ R/W S.R. 3
R.R. SPIKE FND.

STA. 944+12.51, 30.02′ RT.
℄ R/W S.R. 3 IRON PIN FND.

N 54°54′37″ E 334.58′

376.16′ N 54°07′48″ E

633.00′

698.25′ N 55°04′21″ E

STA. 938+65.95, 72.65′ LT.
℄ R/W S.R. 3 IRON PIN FND.

STA. 938+21.24 ℄ SURVEY & CONST. S.R. 3
STA. 938+19.36 ℄ R/W

℄ CONST. S.R. 3
N 54°37′13″ E
935

℄ SURVEY & R/W S.R. 3 (WEYMOUTH ROAD)
N 54°37′13″ E

◦M.N.F.

STA. 938+19.36 ℄ SURVEY & CONST. S.R. 3
STA. 934+76.98 ℄ R/W S.R. 3

P.O.T. STA. 933+84.99
MAG NAIL FND.

STA. 940+85.29, 25.39′ RT.
℄ R/W S.R. 3 CONC. MON. FND. (DISTURBED)

P.I. STA. 941+10.00 ℄ SURVEY & CONST. Δ = 0°17′24″ RT.
NO CURVE

P.I. STA. 940+83.24 ℄ R/W S.R. 3
R.R. SPIKE FND. Δ = 0°56′33″ RT.
NO CURVE

P.O.T. STA. 940+46.52 ℄ R/W S.R. 3
R.R. SPIKE FND.

P.I. STA. 940+59.40 ℄ R/W & CONST. S.R. 3
STA. 10+0C ℄ R/W & CONST. ODESA DRIVE

℄ R/W & CONST. ODESA DRIVE
N 35°51′48″ W

542.59′ N 88°59′47″ E

542.60′

CURVE 5

CURVE 2

N 17°38′28″ E 128.84′

℄ SURVEY & CONST. S.R. 3

N 54°07′48″ E

SPIRAL 1

S.C. Sta. 946+29.58

I.R.F.

285.35′ N 53°50′42″ E

284.76′ N 53°50′42″ E

P.C. CURVE 4

P.T. Sta. 3+60.53

P.C. Sta. 2+15.20

℄ R/W S.R. 606 (WEYMOUTH ROAD)
N 54°18′22″ E

P.K.F.

STA. 9+00.00, ℄ R/W 606
℄ R/W S.R. 3 IRON PIN FND.

STA. 954+69.84
℄ R/W S.R. 3

STA. 954+97.42
℄ R/W S.R. 3

STA. 954+69.74, 29.55′ RT.
℄ R/W S.R. 3 IRON PIN FND.

C.S. Sta. 953+16.24

S.T. Sta. 955+01.24

248.76′ N 88°59′47″ E

SPIRAL 3

END PROJECT
STA. 958+50 ℄ CONST.
S.L.M. 18.15

P.O.T. STA. 965+73.69 ℄ R/W
MAG NAIL FND.

℄ SURVEY & CONST. S.R. 3
960 N 88°24′36″ E

N 88°59′47″ E 806.17′

℄ SURVEY & R/W S.R. 3 (LEDGE ROAD)

P.I. STA. 957+50.00 ℄ SURVEY & CONST.
Δ = 0°35′11″ LT. NO CURVE
P.O.T. STA. 957+67.49 ℄ R/W

BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE BASED ON AN ASSUMED MERIDIAN AND ARE FOR THE PURPOSE OF INDICATING DIRECTIONAL VARIATION.

EXISTING RIGHT OF WAY:

THE EXISTING RIGHT OF WAY WIDTHS AND LOCATIONS WERE DETERMINED USING DOCUMENTATION ON FILE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT3 OFFICE, ASHLAND, OHIO FOR MED-3-(15.04) (17.16-17.28) PART 2 RIGHT OF WAY PLANS SHOWING PROPERTY ACQUIRED BY THE STATE OF OHIO IN 1963 AS HIGHWAY EASEMENT.

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION, IN 2001 BY RICHLAND ENGINEERING LIMITED.

THE ESTABLISHMENT OF THE PROPERTY LINES AND EXISTING RIGHT OF WAY LINES SHOWN ON THIS PLAN AS OF THIS DATE WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

BY Robert J. McAuley
ROBERT J. McAULEY

SURVEYOR NO. 7209 DATE 5 Dec 2002

RECEIVED _____, 20___
RECORDED _____, 20___
BOOK _____ PAGE _____

COUNTY RECORDER

STATE OF OHIO ROBERT J. McAULEY 7209 PROFESSIONAL SURVEYOR

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

CENTERLINE PLAT

MED-3-17.82

1/1
1/10
57
66

223RCA.DGN 12/2/02 CAR.CEO

MED-3-17.82

LOTS 99 & 100, T4, R13 HINCKLEY TOWNSHIP
LOTS 2 & 3, T3, R13 GRANGE TOWNSHIP
MEDINA CO.
STATE OF OHIO

CONVENTIONAL SIGNS

County Line
Township Line
Section Line or Lot Line
Corporation Line or
Fence Line (existing) (proposed)
Center Line
Trees, Stumps (to be removed)
Utility Poles: Telephone, Power, Light
Limited Access (only) LA
Right of Way (only) R/W
Limited Access & Right of Way LA-R/W
Exist. Right of Way EX. R/W
Temp. Right of Way T ESMT
Slope Easement SL ESMT
Utility Easement U ESMT
Property Line (in existing fence)
Railroad or
Guardrail (existing) (proposed)
Construction Limits C/L

NOTES:
THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

REFERENCE POINT INFORMATION IS CONTAINED IN THE CONSTRUCTION PLAN.

(10) JOHN R. GARAPIC AND JOSEPHINE GARAPIC, TRUSTEES UNDER THE GARAPIC LIVING TRUST, DATED MAR. 30, 2000
005-07A-05-001
INS. NO. 20000R018818

(11) JOHN A. MUNI AND CHRISTINE A. MUNI
005-07A-05-007
INS. NO. 20020R000146

(12) RAYMOND GARY SCHREIBER AND LYNN PATRICE SCHREIBER
005-07A-05-002
005-07A-05-003
016-03C-32-001
016-03C-32-002
O.R.V. 1253/488

(13) ROMAN V. CREA
005-07A-05-013
INS. NO. 20000R021633

(14) SARA J. ROBIN
005-07A-05-004
016-03C-32-003
D.V. 423/116 378/531 470/234

(15) IRENE K. WAGNER
005-07A-05-012
O.R.V. 1026/626

(16) SHAUN M. DONOVAN
005-07A-05-011
O.R.V. 1178/527

(17) MICHELE A. SHERBA
005-07A-05-026
INS. NO. 19980R024598

(15) VARIABLE WIDTH WATERLINE EASEMENT
INS. NO. 20010R040298

(16) 20' WATERLINE EASEMENT
INS. NO. 20010R038800

(17) 20' WATERLINE EASEMENT
INS. NO. 20010R038801

(18) 30' WATERLINE EASEMENT
INS. NO. 20010R038802

(19) 12' OHIO EDISON GTE/COMMUNICATION EASEMENT
PLAT VOL. 27, PG. 71

(18) TAMMI CHAKI AND LOUIS CHAKI
005-07A-05-027
INS. NO. 20000R003954

(19) NORMAN B. KRUEGER
005-07A-01-006
005-07A-06-009
005-07A-06-014
O.R.V. 1157/833

(20) DENNIS P. LANG AND ELAINE M. LANG
016-03C-32-004
O.R.V. 240/622

(21) PARK CORPORATION
016-03C-33-044
O.R.V. 1228/336

(22) ERICH W. KROEGER AND GLORIA J. KROEGER
016-03C-32-005
O.R.V. 245/313

(23) WESLEY H. WEBER
016-03C-32-006
D.V. 419/365

(24) MELVIN H. STROUD AND ANN STROUD
016-03C-32-007
O.R.V. 80/235

016-03C-32-002
016-03C-32-001
005-07A-05-003
005-07A-05-002
005-07A-06-009
005-07A-06-006

EAST LINE OF LOT 99
WEST LINE OF LOT 100

STA. 951+25.26 ℄ R/W & CONST. S.R. 3
STA. 10+00.00 ℄ R/W & CONST. S.R. 606

℄ CONST. S.R. 606 (WEYMOUTH RD.)
℄ R/W S.R. 606 (WEYMOUTH RD.) (60' R/W)

END R/W ACQUISITION
STA. 11+50.00
S.L.M. 0.22

END WORK
STA. 11+75.00

END PROJECT
STA. 958+50.00 ℄ CONST.
S.L.M. 18.15

END R/W ACQUISITION
STA. 959+00.00 ℄ R/W
S.L.M. 18.37

℄ R/W S.R. 3 (LEDGE RD.) (60' R/W)
SOUTH LINE OF LOT 100

20' GTE/COMMUNICATION EASEMENT, INS. NO. 20000R007196

NORTH LINE OF LOT 3

25' WATERLINE EASEMENT, INS. NO. 20000R004178

END WORK
STA. 958+80.00
℄ CONST.

S. LINE OF HINCKLEY TWP.
SOUTH LINE OF LOT 99
NORTH LINE OF LOT 2
N. LINE GRANGER TWP.

JOHN T. AND DEIRDRE MADDEN

BEGIN R/W ACQUISITION
STA. 940+45.30 ℄ R/W
S.L.M. 17.81

BEGIN WORK
STA. 939+30.00, ℄ CONST.

BEGIN PROJECT
STA. 941+10.00, ℄ CONST.
S.L.M. 17.82

℄ R/W S.R. 3 (WEYMOUTH RD.)

CALDERON PROPERTIES LTD.

SUBLOT 1A
SUBLOT 1B
SUBLOT 2
SUBLOT 3
SUBLOT 4

FRANKLIN D. AND JANICE M. VANCE

℄ R/W & CONST. ODESA DRIVE

EAST LINE OF LOT 2
WEST LINE OF LOT 3

JAMES R. AND MARQUERITE R. KEE

12' OHIO EDISON GTE/COMMUNICATION EASEMENT
PLAT VOL. 27, PG. 71

UTILITY OWNERS

WATER:
MEDINA COUNTY SANITARY ENGINEER
791 WEST SMITH ROAD
MEDINA, OHIO 44258
TELEPHONE (330) 723-9585

ELECTRIC:
OHIO EDISON CO.
6326 LAKE AVENUE
ELYRIA, OHIO 44035
TELEPHONE (440) 324-0231

TELEPHONE:
VERIZON
6223 NORWALK ROAD
MEDINA, OHIO 44256
TELEPHONE (330) 722-9586

CABLE TELEVISION:
ADELPHIA CABLE
8385 BAVARIA ROAD
MACEDONIA, OHIO 44056
TELEPHONE (330) 963-3620

GAS:
COLUMBIA GAS OF OHIO
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OHIO 44130
TELEPHONE (440) 891-2455

STRUCTURE KEY

RESIDENTIAL
COMMERCIAL

HORIZONTAL SCALE IN FEET
0 200 400 800

HORIZONTAL SCALE IN FEET
0 100 200 400

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

PROPERTY MAP

MED-3-17.82

2 / 10

58 / 66

REV. BY	DATE	DESCRIPTION
TM	8/5/03	PARCEL 21 REVISED

DATE COMPLETED: 12/2/02

223RMA.DGN 8/19/03 CAR,CEO

MED-3-17.82

TOTAL NUMBER OF : 27 PARCELS
15 OWNERSHIPS 0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 TOTAL TAKES 5 OWNERSHIPS WITH "P" ITEMS

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE
ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF STATE OF OHIO UNLESS OTHERWISE SHOWN.

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK/PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1-9	NOT USED															
10WD	JOHN R. GARAPIC AND JOSEPHINE GARAPIC,	4	INS. NO. 20000R018818	005-07A-05-001	4.0400	0.4437	0.0577	0.0423	0.0154	P	3.5809		STATE	(1) R/R TIES, MULCH AREA, ** MULCH AREA		
10T	TRUSTEES UNDER THE GARAPIC	4				———	0.0612	———	0.0612					FOR CONSTRUCTION OF DRIVE & GRADING		
	LIVING TRUST, DATED MAR. 30, 2000															
11WD	JOHN A. MUNI AND CHRISTINE A. MUNI	4, 5	INS. NO. 20020R000146	005-07A-05-007	30.0984	0.6484	0.3251	0.0888	0.2363			29.2137				
12WD	RAYMOND GARY SCHREIBER AND	4, 5	O.R.V. 1253/488	005-07A-05-002	1.8340	0.2035	0.2670	0.2035	0.0635					(2)		
12WD-1	LYNN PATRICE SCHREIBER	5		005-07A-05-003	1.1060	0.2002	0.2662	0.2002	0.0660							
				016-03C-32-001	25.0530	———	———	———	———							
				016-03C-32-002	8.9310	———	———	———	———							
				TOTAL	36.9240	0.4037	0.5332	0.4037	0.1295		36.3908					
12T		4, 5				———	0.2550	———	0.2550					FOR CONSTRUCTION OF DRIVE & GRADING		
13	ROMAN V. CREA	5	INS. NO. 20000R021633	005-07A-05-013	2.0039	———	———	———	———			2.0039		NO ADDITIONAL RIGHT OF WAY SUBLOT 4		
14WD	SARA J. ROBIN	8	D.V. 423/116	005-07A-05-004	0.3160	0.1088	———	———	———							
			D.V. 378/531	016-03C-32-003	3.4700	0.2820	0.0843	0.0672	0.0171	P				BOULDER		
			D.V. 470/234	TOTAL	3.7860	0.3908	0.0843	0.0672	0.0171		3.3781					
14T		5, 6				———	0.1510	———	0.1510					FOR CONSTRUCTION OF DRIVE & GRADING		
15WD	IRENE K. WAGNER	5	O.R.V. 1026/626	005-07A-05-012	2.8885	0.2243	0.3760	0.2236	0.1524	P		2.5118		2'-3' BOULDERS, SUBLOT 3		
15T		5				———	0.0421	———	0.0421					GRADING		
16WD	SHAUN M. DONOVAN	5, 6	O.R.V. 1178/527	005-07A-05-011	2.4126	0.2171	0.4605	0.2171	0.2434	P		1.9521		2'-3' BOULDERS, 3" STEEL POST, SUBLOT 2		
16T		5, 6				———	0.0719	———	0.0719					FOR CONSTRUCTION OF DRIVE & GRADING		
17WD	MICHELE A. SHERBA	6	INS. NO. 19980R024598	005-07A-05-026	2.4636	0.1580	0.5337	0.1580	0.3757			1.9299		SUBLOT 1A		
17T		6				———	0.1256	———	0.1256					FOR CONSTRUCTION OF DRIVE		
18WD	TAMMI CHAKI AND LOUIS CHAKI	6, 7	INS. NO. 20000R003954	005-07A-05-027	2.1208	0.1205	0.3064	0.1205	0.1859			1.8144		(3) SUBLOT 1B		
19WD	NORMAN B. KRUEGER	7	O.R.V. 1157/833	005-07A-01-006	79.7638	1.1171	0.2996	0.1941	0.1055					(4) (7)		
19WD-1		7		005-07A-06-009	5.7677	0.2382	0.1336	0.1022	0.0314							
				005-07A-06-014	19.8982	1.2870	———	———	———					** EX. 1' BOULDERS		
				TOTAL	105.4297	2.6423	0.4332	0.2963	0.1369			102.6505				
20WD	DENNIS P. LANG AND	8, 9	O.R.V. 240/622	016-03C-32-004	3.6047	0.1156	0.1989	0.1156	0.0833		3.4058			(5)		
20T	ELAINE M. LANG	8				———	0.0075	———	0.0075					FOR CONSTRUCTION OF DRIVE		
21WD	PARK CORPORATION	6-10	O.R.V. 1228/336	016-03C-33-044	58.4780	3.8275	1.9793	1.3630	0.6163		54.0342*			(8)		
21T		6, 7				———	0.2520	———	0.2520					GRADING		
21T-1		8, 9				———	0.0284	———	0.0284					GRADING		
22WD	ERICH W. KROEGER AND	8, 9	O.R.V. 245/313	016-03C-32-005	10.0760	0.0692	0.1268	0.0692	0.0576		9.9492			(6)		
22T	GLORIA J. KROEGER	9				———	0.0236	———	0.0236					FOR CONSTRUCTION OF DRIVE		
23WD	WESLEY H. WEBER	9	D.V. 419/365	016-03C-32-006	10.1230	0.1615	0.3183	0.1615	0.1568		9.8047					
23T		9				———	0.0109	———	0.0109					FOR CONSTRUCTION OF DRIVE		
24T	MELVIN H. STROUD AND ANN STROUD	9, 10	O.R.V. 80/235	016-03C-32-007	1.7720	0.1962	0.0867	———	0.0867	P	1.5758			** BOULDERS		

D.V. = DEED VOLUME
O.R.V. = OFFICIAL RECORD VOLUME
INS. NO. = INSTRUMENT NUMBER

UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

(1) REMOVE 107 L.F. OF 4' SPLIT RAIL FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY (30 L.F. IN 10T)

(2) REMOVE 602 L.F. OF 4' SPLIT RAIL FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY (288 L.F. IN 12WD-1) (25 L.F. IN 12T)

(3) REMOVE 90 L.F. OF BARBED FENCE OF WHICH 43 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

(4) REMOVE 254 L.F. OF BARBED FENCE OF WHICH 223 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

(5) REMOVE 41 L.F. OF 3' WOVEN WIRE FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

(6) REMOVE 51 L.F. OF 3' WOVEN WIRE FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

(7) REMOVE 32 L.F. OF EXISTING 4' STEEL MESH FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

(8) REMOVE 140 L.F. OF 8' CHAIN LINK FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY. (140 L.F. IN 21T)

* LEFT OF S.R. 3
** DENOTES RIGHT OF WAY ENCROACHMENT

FIELD REVIEWED BY: CEO 10/8/02
OWNERSHIP VERIFIED BY: BB 11/14/02
DATE COMPLETED: 12/2/02

REV. BY	DATE	DESCRIPTION
MGA	12/6/02	ADD NET RESIDUE LT. TO PARCEL 24
MGA	12/6/02	REVISE SHEET NUMBERS
TW	8/5/03	21T & 21T-1 ADDED

DATE COMPLETED: 12/2/02

FEDERAL PROJECT NO.
PID NO. 21984
STATE JOB NO. 63003(0)
R/W DESIGNER BB
R/W REVIEWER RJM

SUMMARY OF ADDITIONAL RIGHT OF WAY

MED-3-17.82

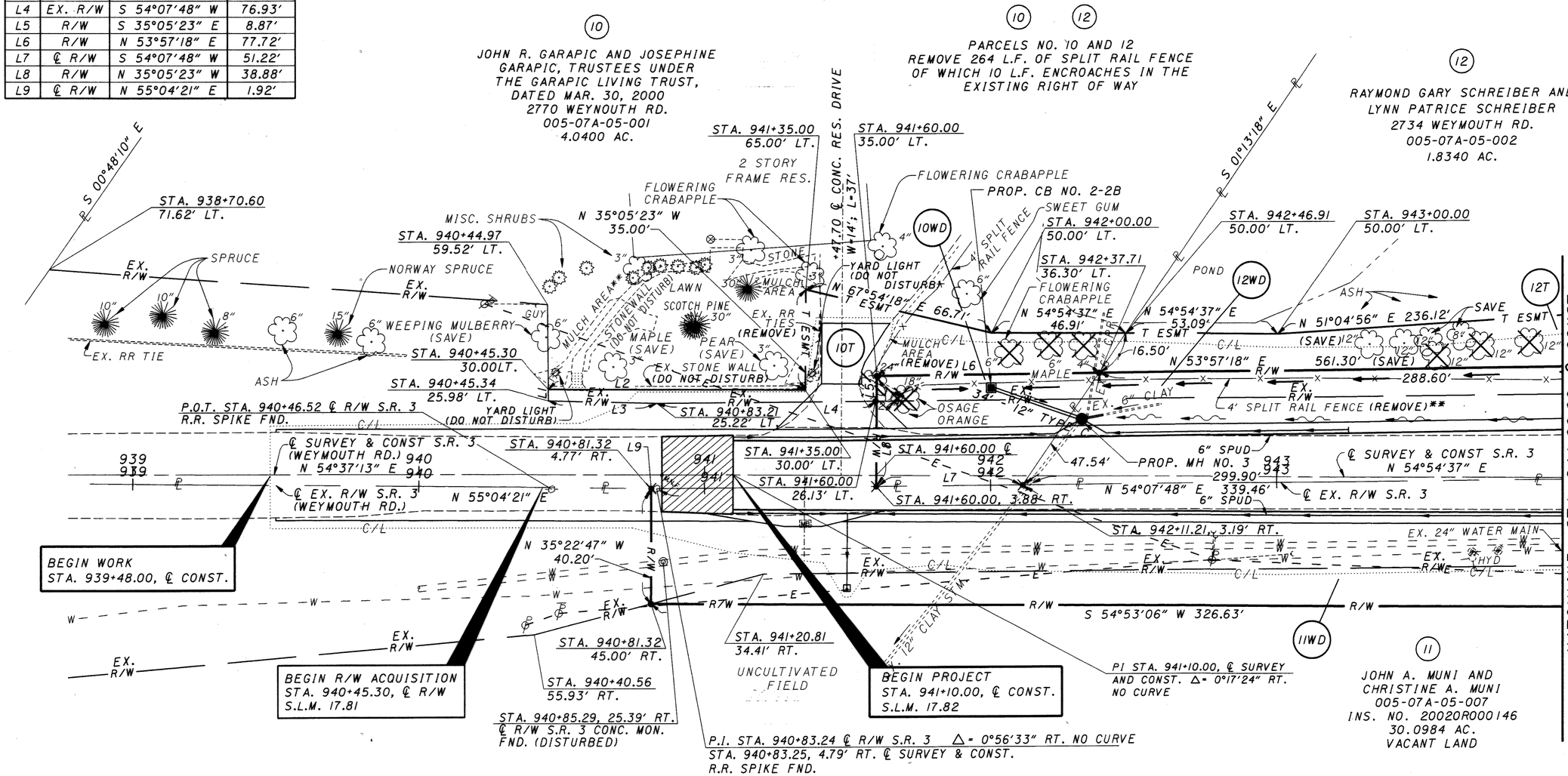
3 / 10

59 / 66

223RS.DGN 10/1/03 CEO.CAR

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3

LINE	TYPE	BEARING	DISTANCE
L1	T ESMT	N 36°00'33" W	4.03'
L2	T ESMT	N 54°42'04" E	89.85'
L3	EX. R/W	S 55°46'04" W	37.87'
L4	EX. R/W	S 54°07'48" W	76.93'
L5	R/W	S 35°05'23" E	8.87'
L6	R/W	N 53°57'18" E	77.72'
L7	℄ R/W	S 54°07'48" W	51.22'
L8	R/W	N 35°05'23" W	38.88'
L9	℄ R/W	N 55°04'21" E	1.92'



BASIS OF BEARING

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE BASED ON AN ASSUMED MERIDIAN AND ARE FOR THE PURPOSE OF INDICATING DIRECTIONAL VARIATION.

EXISTING R/W

EXISTING RIGHT OF WAY CENTERLINE, WIDTHS AND LOCATIONS WERE DETERMINED USING RIGHT OF WAY PLANS S.H.(I.C.H.) 32 SEC. KI-K3-HI MEDINA COUNTY AND MED-3-(15.04) PART 2 SHOWING PROPERTY ACQUIRED BY THE STATE OF OHIO IN 1963 AS HIGHWAY EASEMENT. ON FILE FROM THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3, ASHLAND OHIO AND DOCUMENTATION ON FILE FROM THE MEDINA COUNTY ENGINEER AND RECORDER.

PROPERTY LINES

PROPERTY LINES WERE ESTABLISHED USING THE FOLLOWING INSTRUMENTS AS RECORDED IN THE MEDINA COUNTY RECORDS:

PLATS:
THE ODESA SUBDIVISION - PHASE I, P.V. 26, P. 183
THE ODESA SUBDIVISION - PHASE II, P.V. 27, P. 71
REPLOT OF THE ODESA SUBDIVISION PHASE I
SUBLOT 1 INSTRUMENT NO. 1999PL000161

DEEDS:

D.V.	378, P. 532	O.R.V.	26, P. 626	INS. NO. 19980R024598
D.V.	419, P. 365	O.R.V.	80, P. 235	INS. NO. 20000R018818
D.V.	423, P. 116	O.R.V.	240, P. 622	INS. NO. 20000R003954
D.V.	470, P. 234	O.R.V.	245, P. 313	INS. NO. 20000R021633
		O.R.V.	1157, P. 833	INS. NO. 20000R000146
		O.R.V.	1178, P. 527	
		O.R.V.	1228, P. 336	
		O.R.V.	1253, P. 488	

SURVEY PLATS:
PLATS OF SURVEYS RECORDED IN MEDINA COUNTY RECORDS FOR THE FOLLOWING PARCELS:

P.P.N. 05-07A-05-001
P.P.N. 05-07A-05-002
P.P.N. 05-07A-05-003
P.P.N. 05-07A-05-004
P.P.N. 05-07A-005-007
P.P.N. 05-07A-005-009
P.P.N. 16-03C-32-004
P.P.N. 16-03C-33-044

MONUMENT LEGEND

- ● -3/4" x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ◦M.N.F. -MAG NAIL FOUND
- ✕ -MAG NAIL SET
- Ⓘ I.P.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ∅ -RAILROAD SPIKE FOUND
- ◦P.K.F. -P.K. NAIL FOUND

STRUCTURE KEY

- □ RESIDENTIAL
- ■ COMMERCIAL

** DENOTE RIGHT OF WAY ENCHROACHMENT

FIELD REVIEW BY CEO	DATE: 10/8/02
OWNERSHIP VERIFIED BY BB	DATE: 11/14/02

REV.	DATE	DESCRIPTION

DATE OF COMPLETION: 12/2/02

SCALE IN FEET 0 20 40

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

RIGHT OF WAY PLAN
STA. 939+00.00 TO STA. 944+00.00

MED-3-17.82

4 / 10

60 / 66

223RPA.DGN 10/1/03 CAR,CEO

MED-3-17.82

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3

(12) RAYMOND GARY SCHREIBER AND LYNN PATRICE SCHREIBER 2734 WEYMOUTH RD. 05-07A-05-002 1.8340 AC.

(14) SARA J. ROBIN 2722 WEYMOUTH RD. 05-07A-05-004 0.3160 AC.

LOT 99 / LOT 2

LAWN

STA. 945+35.37 65.00' LT.

STA. 945+26.28 40.34' LT.

STA. 945+22.58 30.30' LT.

STA. 947+79.65 85.00' LT.

STA. 947+94.48 54.95' LT.

STA. 944+59.40 ℄ R/W & CONST. S.R. 3 = STA. 10+00.00 ℄ R/W & CONST. ODESA DRIVE

STA. 944+00.00 ℄ CONST. SHEET NO. 4 OF 10

STA. 948+50.00 ℄ CONST. SHEET NO. 6 OF 10

MATCHLINE (SEE SHEET NO. 5 OF 10)

MATCHLINE (SEE SHEET NO. 5 OF 10)

℄ ODESA DRIVE ASPH. RES. L=38' W=12'

FLOWERING CRABAPPLE (SAVE) 4"

HORSE CHESTNUT

ASH

CHERRY

WILD CHERRY/ HORSE CHESTNUT

BOX ELDER

18" TWIN

20" TWIN

24" TWIN MAPLE

N 54°37'35" E 256.34'

N 51°04'56" E 236.12'

S 53°57'18" W 561.30'

N 53°57'18" E 272.69'

N 53°57'18" E 288.60'

N 54°07'48" E 332.02'

S 54°07'48" W 301.18'

N 54°07'48" E 332.02'

N 59°33'58" E 128.95'

S 54°07'48" W 168.10

S 53°13'53" E 122.50'

N 11°37'53" W 76.03'

42.97'

42.77'

16.12'

24.0'

339.46'

299.90'

℄ SURVEY & CONST. △=0°46'48" LT. NO CURVE

T.S. STA. 944+44.58

P.I. ℄ SURVEY & CONST. STA. 945+19.58, 0.27 LT.

℄ EX. R/W S.R. 3

℄ SURVEY & CONST. S.R. 3 (LEDGE RD.)

4' SPLIT RAIL FENCE

EX. CONC. PAD

EX. 4" GAS

TYPE 6 CURB

EX. 3' BOULDERS

EX. 2'-3' BOULDERS (SAVE)

EX. 2' BOULDERS

EX. 12" TYPE C @ 5.64% EX. R/W

208'-12" TYPE C

6" TYPE F

R/W & CONST. ODESA DRIVE

℄ LIMESTONE DR. W=14.0'; L=5.5'

DO NOT DISTURB PINE TREES

DO NOT DISTURB AUSTRIAN PINE TREES

STA. 944+22.70 0.30 Rt.

STA. 944+44.57 ℄ EX. R/W

STA. 944+12.91 30.43' RT.

STA. 944+12.06 33.05' RT.

STA. 944+08.18 45.00' RT.

STA. 945+11.10 0.19' LT.

STA. 945+45.00 45.00' RT.

STA. 945+19.71 29.73' RT.

STA. 944+97.18 40.00' RT.

STA. 944+90.01 55.00' RT.

STA. 946+29.53 40.00' RT.

STA. 946+29.52 45.00' RT.

STA. 947+89.45 65.00' LT.

STA. 948+08.84 27.10' LT.

STA. 948+46.48 35.01' LT.

STA. 948+39.44 0.75' LT.

STA. 948+30.25 40.00' RT.

STA. 948+29.10 45.00' RT.

STA. 948+45.00 47.00' RT.

(12WD) (11WD) (15WD) (16WD) (12T) (12WD-1) (14T) (15T) (16T)

(13) ROMAN V. CREA ODESA DRIVE 005-07A-05-013 2.0039 AC. SUBLOT 4

LAWN

(15) IRENE K. WAGNER 2737 WEYMOUTH RD. 005-07A-05-012 2.8885 AC. SUBLOT 3

LAWN

(12) RAYMOND GARY SCHREIBER AND LYNN PATRICE SCHREIBER 2734 WEYMOUTH RD. 05-07A-05-003 1.1060 AC.

(16) SHAUN M. DONOVAN 2729 WEYMOUTH 005-07A-05-011 2.4126 AC. SUBLOT 2

LAWN

2 STORY FRAME RES.

(10) (12) PARCELS NO. 10 AND 12 REMOVE 264 L.F. OF SPLIT RAIL FENCE OF WHICH 10 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

LINE	TYPE	BEARING	DISTANCE
L9	R/W	S 54°53'06" W	326.63'
L10	℄	S 17°05'34" E	47.00'
L11	EX. R/W	N 35°29'54" W	30.00'
L12	T ESMT	S 56°23'28" W	82.61'
L13	T ESMT	N 73°32'27" E	15.51'

EX. R/W CURVE DATA C1
L = 25.35'
R = 30.00'
△ = 48°25'24"
T = 13.49'
C LEN = 24.61'
BRG= N 29°55'06" E

EX. R/W CURVE DATA C2
L = 16.81'
R = 30.00'
△ = 32°06'05"
T = 8.63'
C LEN = 16.59'
BRG= N 10°20'38" W

R/W CURVE DATA C3
L = 195.06'
R = 1392.39'
△ = 08°01'36"
T = 97.69'
C LEN = 194.90'
BRG= N 61°50'36" E

T ESMT CURVE DATA C4
L = 193.25'
R = 1387.39'
△ = 07°58'51"
T = 96.78'
C LEN = 193.10'
BRG= S 61°49'13" W

R/W CURVE DATA C5
L = 209.09'
R = 1392.39'
△ = 08°36'14"
T = 104.74'
C LEN = 208.90'
BRG= S 70°09'31" W

℄ SURVEY & CONST. CURVE DATA
P.I. Sta = 949+87.18
△ = 34°51'59" (RT)
Dc = 4°00'00"
R = 1,432.39'
Ls = 185.00'
Theta = 3°42'00"
LT = 123.36'
ST = 61.69'
CHD BRG = N 71°33'48" E
CHD LEN = 680.10'
x = 184.92'
y = 3.98'
k = 92.49'
p = 1.00'
Dc = 27°27'59" (RT)
Lc = 686.66'
Ts = 542.60'
Es = 70.01'

MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ◦M.N.F. -MAG NAIL FOUND
- ✖ -MAG NAIL SET
- ⊙I.P.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ⌀ -RAILROAD SPIKE FOUND
- ◦P.K.F. -P.K. NAIL FOUND

** DENOTE RIGHT OF WAY ENCHROACHMENT

PROPERTY LINES

SEE SHEET 4 OF 10 FOR LIST OF THE INSTRUMENTS OF RECORD

STRUCTURE KEY

☐ RESIDENTIAL
■ COMMERCIAL

BASIS OF BEARING

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE BASED ON AN ASSUMED MERIDIAN AND ARE FOR THE PURPOSE OF INDICATING DIRECTIONAL VARIATION.

EXISTING R/W

EXISTING RIGHT OF WAY CENTERLINE, WIDTHS AND LOCATIONS WERE DETERMINED USING RIGHT OF WAY PLANS S.H.(I.C.H.) 32 SEC. KI-K3-HI MEDINA COUNTY AND MED-3-(15.04) PART 2 SHOWING PROPERTY ACQUIRED BY THE STATE OF OHIO IN 1963 AS HIGHWAY EASEMENT. ON FILE FROM THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3, ASHLAND OHIO AND DOCUMENTATION ON FILE FROM THE MEDINA COUNTY ENGINEER AND RECORDER.

FIELD REVIEW BY CEO	DATE: 10/8/02	
OWNERSHIP VERIFIED BY BB	DATE: 11/14/02	
REV.	DATE	DESCRIPTION
DATE OF COMPLETION: 12/2/02		

SCALE IN FEET 0 20 40

PID NO. 21984

R/W DESIGNER BB R/W REVIEWER RJM

RIGHT OF WAY PLAN STA. 944+00.00 TO STA. 948+50.00

MED-3-17.82

5 / 10

61 / 66

223RPB.DGN 10/1/03 CAR,CEO

MED-3-17.82

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3

BASIS OF BEARING

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LINE	TYPE	BEARING	DISTANCE
L14	R/W	S 75°03'13" W	28.82'
L15	℄ EX. R/W	S 88°59'47" W	923.85'
L16	℄ EX. R/W	N 88°59'47" E	175.00'

MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ○M.N.F. -MAG NAIL FOUND
- ✕ -MAG NAIL SET
- ⊙I.P.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ⊘ -RAILROAD SPIKE FOUND
- ⊙P.K.F. -P.K. NAIL FOUND

℄ SURVEY & CONST. CURVE DATA

P.I. Sta = 949+87.18
△ = 34° 51' 59" (RT)
Dc = 4° 00' 00"
R = 1,432.39'
Ls = 185.00'
Theta = 3° 42' 00"
LT = 123.36'
ST = 61.69'
x = 184.92'
y = 3.98'
k = 92.49'
p = 1.00'
Dc = 27° 27' 59" (RT)
Lc = 686.66'
Ts = 542.60'
Es = 70.01'

SCALE IN FEET 0 20 40

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

RIGHT OF WAY PLAN
STA. 948+50.00 TO STA. 954+00.00

MED-3-17.82

6 / 10

62 / 66

14 — SARA J. ROBIN, 2722 WEYMOUTH RD., 16-03C-32-003, 3.4700 AC.

21 — PARK CORPORATION, WEYMOUTH RD., 16-03C-33-044, 58.4780 AC.

16 — SHAUN W. DONOVAN, 2729 WEYMOUTH, 005-07A-05-011, 2.4126 AC., SUBLOT 2

17 — MICHELE A. SHERBA, ODESA DRIVE, 005-07A-05-026, 2.4636 AC., SUBLOT 1A

18 — TAMMI CHAKI & LOUIS CHAKI, LEDGE RD., 05-07A-05-027, 2.1208 AC.

REMOVE 140 L.F. OF 8' CHAIN LINK FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY.

R/W CURVE DATA C5
L = 209.09'
R = 1392.39'
△ = 08°36'14"
T = 104.74'
C LEN = 208.90'
BRG = S 70°09'31" W

STRUCTURE KEY

□ RESIDENTIAL
■ COMMERCIAL

PROPERTY LINES

SEE SHEET 4 OF 10 FOR LIST OF THE INSTRUMENTS OF RECORD

*LEAD IN DISTANCE FROM RR SPK. FND. AT STA. 949+87.18, S.R. 3 ALSO BEING STA. 0+00.00, S.R. 606 ALONG EX. ℄ OF RIGHT OF WAY

S.R. 3		S.R. 606	
PARCEL NO.	DISTANCE	PARCEL NO.	DISTANCE
10WD	775.98	14WD	290.48
11WD	564.48	20WD	400.12
12WD	476.08	21WD	645.29
12WD-1	174.90	22WD	545.16
19WD	493.70	23WD	645.29
19WD-1	775.89		

** DENOTE RIGHT OF WAY ENCHROACHMENT

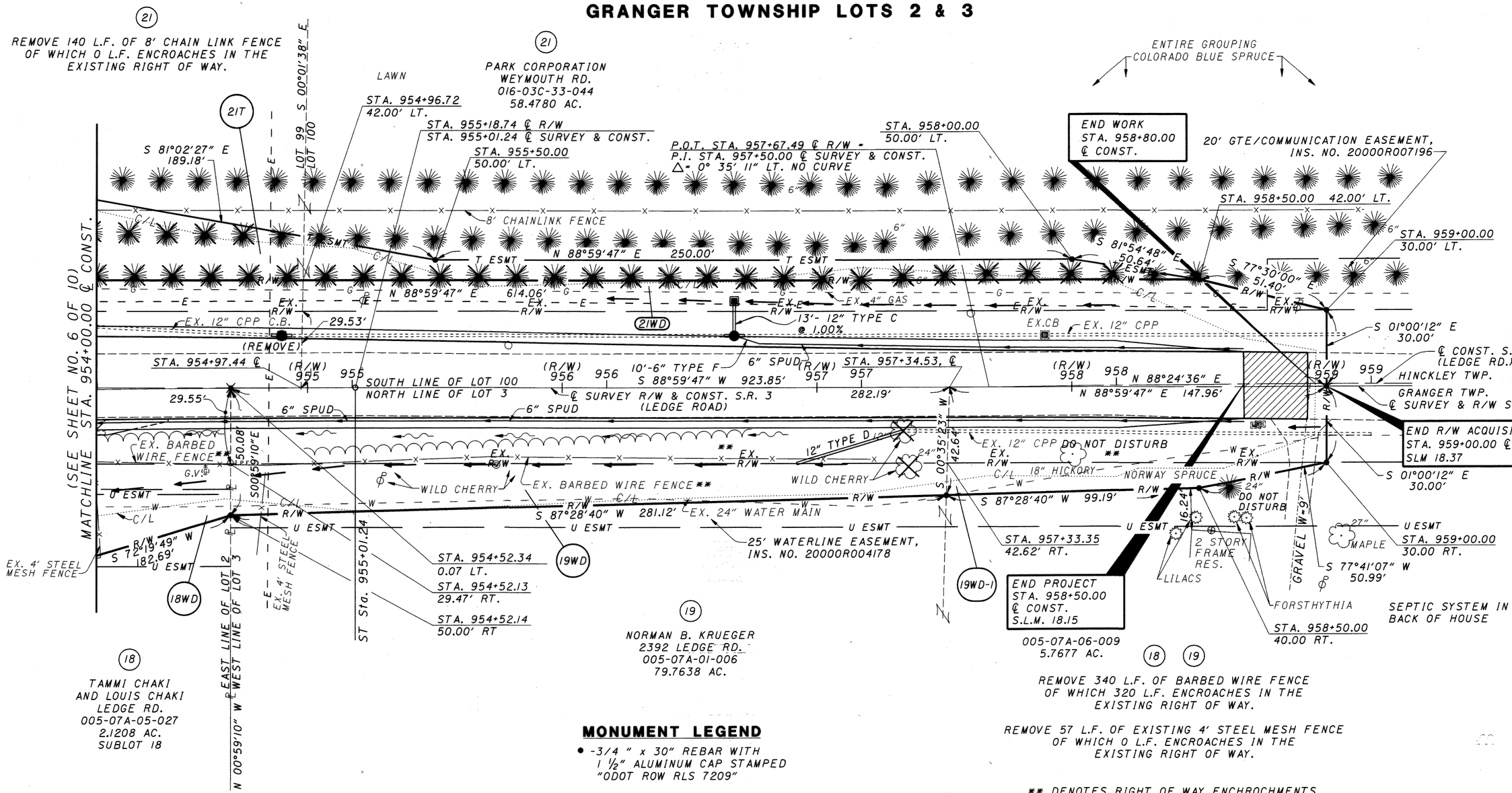
FIELD REVIEW BY CEO	DATE: 10/8/02	
OWNERSHIP VERIFIED BY BB	DATE: 11/14/02	
BB	10/1/03	REVISE LEAD-IN DISTANCE 20WD
TM	8/5/03	REVISED 21WD, ADD 21T
REV.	DATE	DESCRIPTION

DATE OF COMPLETION: 12/2/02

223RPC.DGN 10/2/03 CAR,CEO,RC

MED-3-17.82

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3



MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ○M.N.F. -MAG NAIL FOUND
- ✕ -MAG NAIL SET
- ⓘI.R.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ⌀ -RAILROAD SPIKE FOUND
- ○P.K.F. -P.K. NAIL FOUND

BASIS OF BEARING

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE BASED ON AN ASSUMED MERIDIAN AND ARE FOR THE PURPOSE OF INDICATING DIRECTIONAL VARIATION.

EXISTING R/W

EXISTING RIGHT OF WAY CENTERLINE, WIDTHS AND LOCATIONS WERE DETERMINED USING RIGHT OF WAY PLANS S.H.(I.C.H.) 32 SEC. KI-K3-HI MEDINA COUNTY AND MED-3-(15.04) PART 2 SHOWING PROPERTY ACQUIRED BY THE STATE OF OHIO IN 1963 AS HIGHWAY EASEMENT. ON FILE FROM THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3, ASHLAND OHIO AND DOCUMENTATION ON FILE FROM THE MEDINA COUNTY ENGINEER AND RECORDER.

STRUCTURE KEY

- ☐ RESIDENTIAL
- ■ COMMERCIAL

PROPERTY LINES

SEE SHEET 4 OF 10 FOR LIST OF THE INSTRUMENTS OF RECORD

** DENOTE RIGHT OF WAY ENCHROACHMENT

FIELD REVIEW BY CEO	**DATE:** 10/8/02	
OWNERSHIP VERIFIED BY BB	**DATE:** 11/14/02	
MGA	12/9/02	REVISE BRG. &
		ADD SURVEY MARKERS
TM	8/5/03	REVISED 21WD, ADD 21T
REV.	**DATE**	**DESCRIPTION**

DATE OF COMPLETION: 12/2/02

SCALE IN FEET 0 20 40

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

RIGHT OF WAY PLAN
STA. 954+00.00 TO STA. 959+00.00

MED-3-17.82

7 / 10

63 / 66

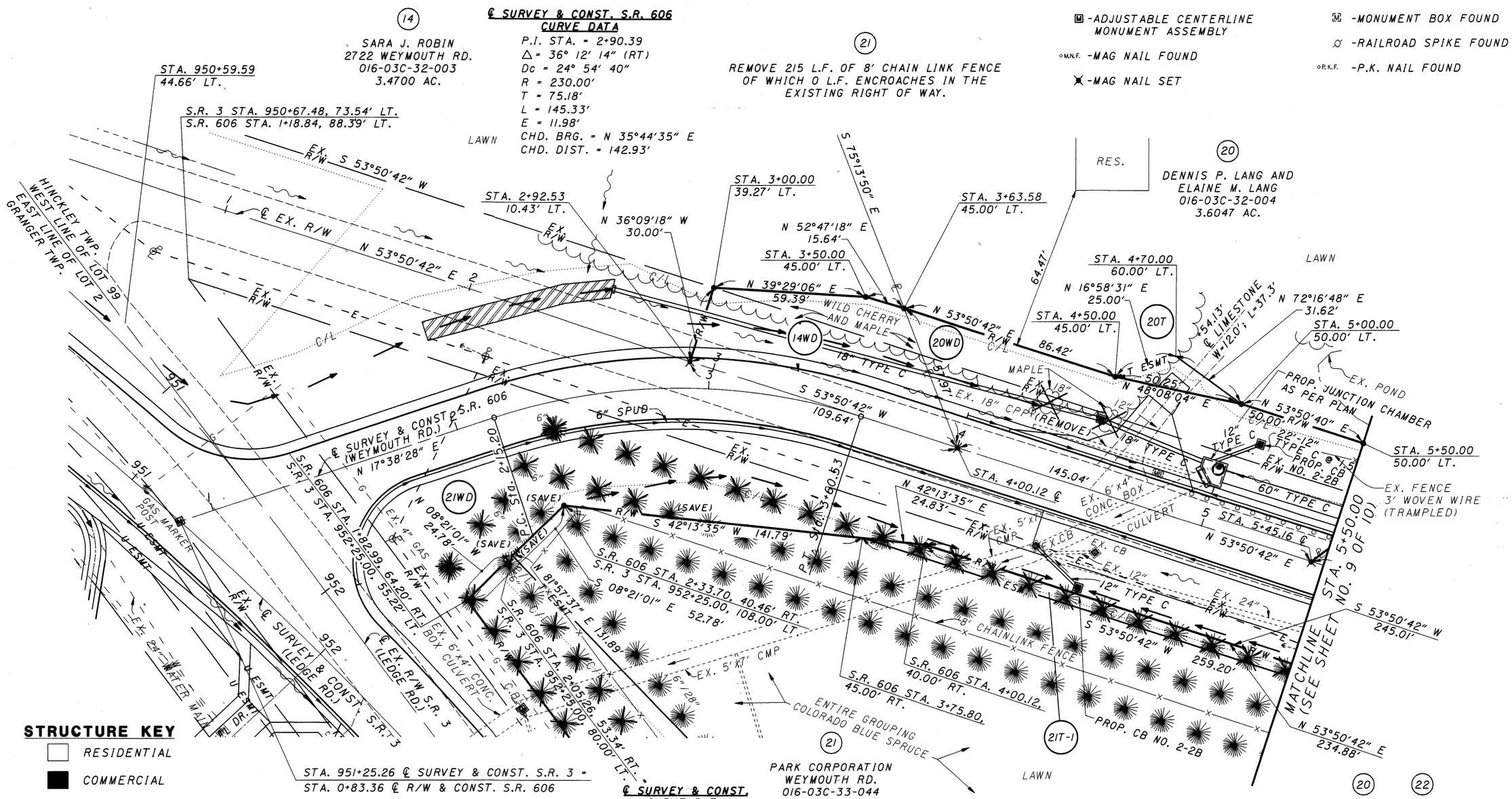
223RPD.DGN 10/2/03 CAR,CEO,RC

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3

MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 1/2" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ○M.N.F. -MAG NAIL FOUND
- ✕ -MAG NAIL SET
- ⊙I.P.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ⌀ -RAILROAD SPIKE FOUND
- ○P.K.F. -P.K. NAIL FOUND

SCALE IN FEET 0 20 40



STRUCTURE KEY

- ☐ RESIDENTIAL
- ■ COMMERCIAL

STA. 951+25.26 ℄ SURVEY & CONST. S.R. 3 = STA. 0+83.36 ℄ R/W & CONST. S.R. 606

℄ SURVEY & CONST. CURVE DATA

P.I. Sta = 949+87.18	x = 184.92'
△ = 34°51'59" (RT)	y = 3.98'
Dc = 4°00'00"	k = 92.49'
R = 1,432.39'	p = 1.00'
Ls = 185.00'	Dc = 27°27'59" (RT)
Theta = 3°42'00"	Lc = 686.66'
LT = 123.36'	Ts = 542.60'
ST = 61.69'	Es = 70.01'
CHD BRG = N71°33'48"E	
CHD LEN = 680.10'	

BASIS OF BEARING

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY AND ARE BASED ON AN ASSUMED MERIDIAN AND ARE FOR THE PURPOSE OF INDICATING DIRECTIONAL VARIATION.

EXISTING R/W

EXISTING RIGHT OF WAY CENTERLINE, WIDTHS AND LOCATIONS WERE DETERMINED USING RIGHT OF WAY PLANS S.H.(I.C.H.) 32 SEC. KI-K3-HI MEDINA COUNTY AND MED-3-(15.04) PART 2 SHOWING PROPERTY ACQUIRED BY THE STATE OF OHIO IN 1963 AS HIGHWAY EASEMENT. ON FILE FROM THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3, ASHLAND OHIO AND DOCUMENTATION ON FILE FROM THE MEDINA COUNTY ENGINEER AND RECORDER.

PROPERTY LINES

SEE SHEET 4 OF 10 FOR LIST OF THE INSTRUMENTS OF RECORD

*LEAD IN DISTANCE FROM RR SPK. FND. AT STA. 949+87.18, S.R. 3 ALSO BEING STA. 0+00.00, S.R. 606 ALONG EX. ℄ OF RIGHT OF WAY

S.R. 606	
PARCEL NO.	DISTANCE
14WD	290.48
20WD	400.12
21WD	645.29
22WD	545.16
23WD	645.29

REMOVE 92' L.F. OF 3' WOVEN WIRE FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

** DENOTE RIGHT OF WAY ENCHROACHMENT

REV.	DATE	DESCRIPTION
		FIELD REVIEW BY CEO DATE: 10/8/02
		OWNERSHIP VERIFIED BY BB DATE: 11/14/02
BB	10/1/03	REVISE LEAD-IN DISTANCE 20WD
TM	8/5/03	REVISED 21WD, ADD 21T-1

DATE OF COMPLETION: 12/2/02

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

RIGHT OF WAY PLAN
STA. 0+83.36 TO STA. 5+50.00

MED-3-17.82

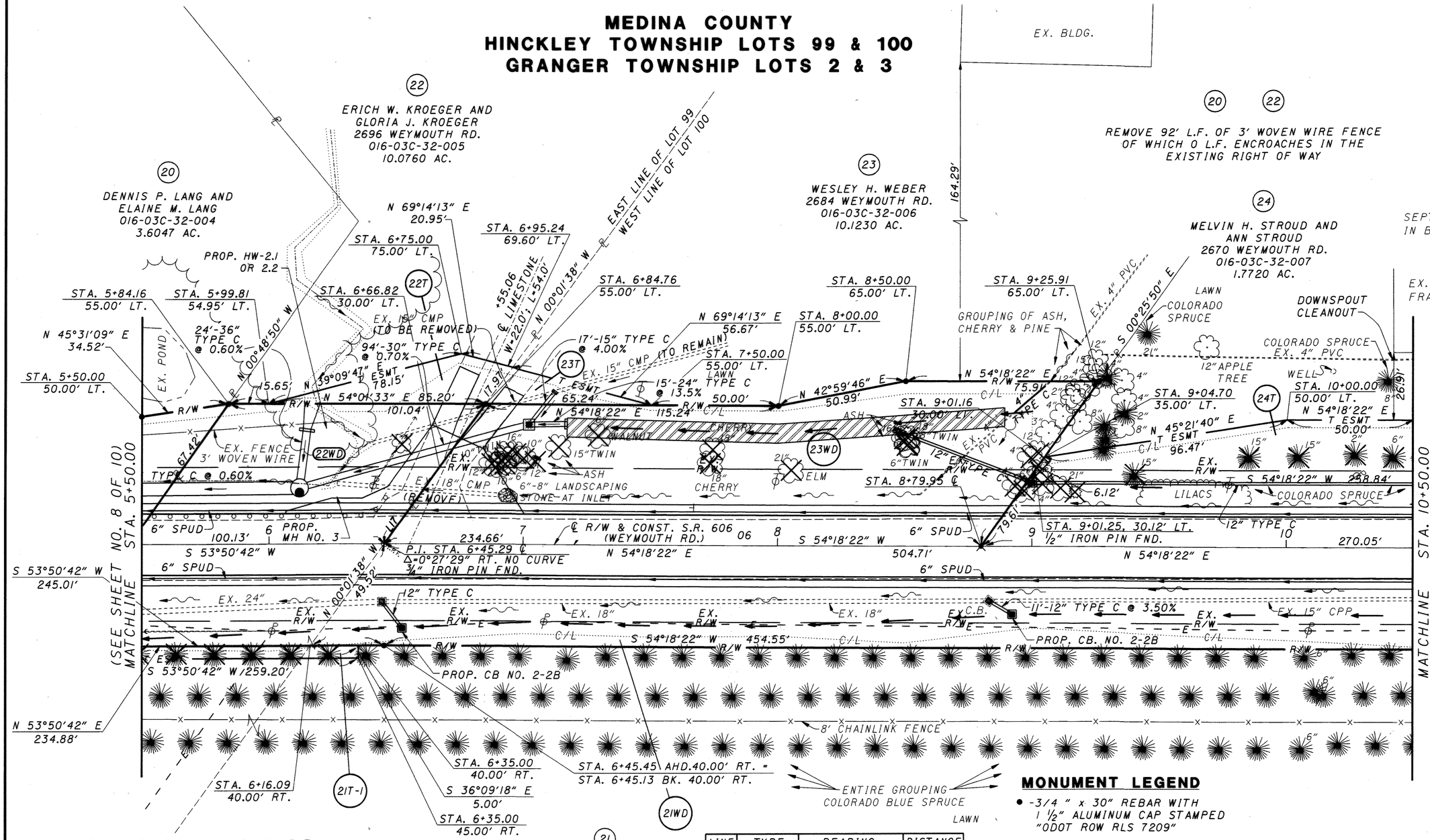
8 / 10

64 / 66

223RPE.DGN 10/2/03 CAR,CEO,RC

MED-3-17.82

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3



** DENOTES RIGHT OF WAY ENCHROACHMENT

BASIS OF BEARING

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EXISTING R/W

EXISTING RIGHT OF WAY CENTERLINE, WIDTHS AND LOCATIONS WERE DETERMINED USING RIGHT OF WAY PLANS S.H.(I.C.H.) 32 SEC. K1-K3-H1 MEDINA COUNTY AND MED-3-(15.04) PART 2 SHOWING PROPERTY ACQUIRED BY THE STATE OF OHIO IN 1963 AS HIGHWAY EASEMENT. ON FILE FROM THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 3, ASHLAND OHIO AND DOCUMENTATION ON FILE FROM THE MEDINA COUNTY ENGINEER AND RECORDER.

21
PARK CORPORATION
WEYMOUTH RD.
016-03C-33-044
58.4780 AC.

LINE	TYPE	BEARING	DISTANCE
L17	℄	S 00°01'38" E	67.70'

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL

PROPERTY LINES

SEE SHEET 4 OF 10 FOR LIST OF THE INSTRUMENTS OF RECORD

MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ◦M.N.F. -MAG NAIL FOUND
- ✕ -MAG NAIL SET
- ⊙I.R.F. -I.P. FOUND
- ◎ -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ☼ -RAILROAD SPIKE FOUND
- ◦P.K.F. -P.K. NAIL FOUND

** DENOTE RIGHT OF WAY ENCHROACHMENT

FIELD REVIEW BY CEO DATE: 10/8/02		
OWNERSHIP VERIFIED BY BB DATE: 11/14/02		
TM	8/5/03	REVISED 21WD, ADD 21T-1
REV.	DATE	DESCRIPTION

DATE OF COMPLETION: 12/2/02

SCALE IN FEET 0 20 40

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

RIGHT OF WAY PLAN
STA. 5+50.00 TO STA. 10+50.00

MED-3-17.82

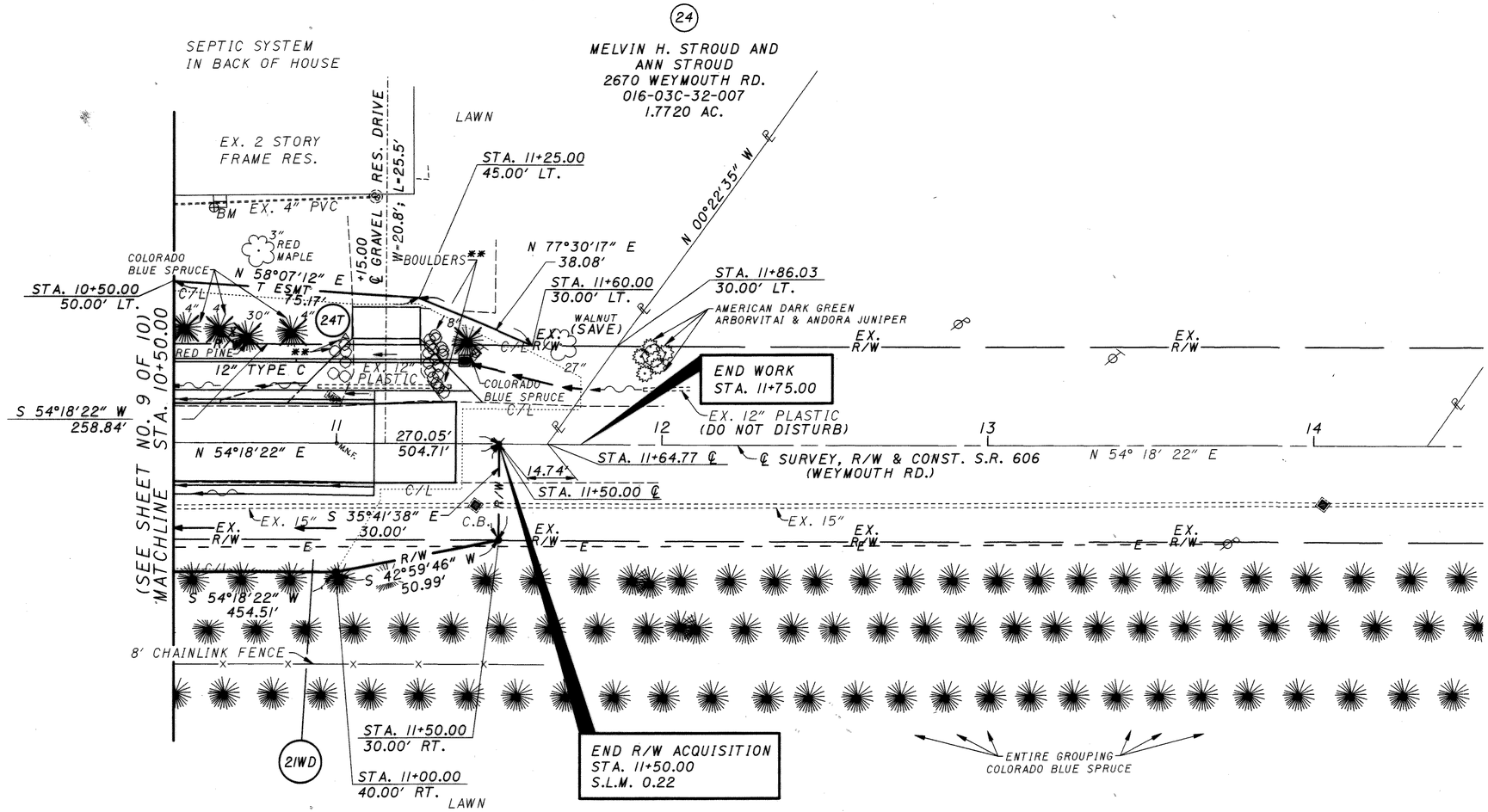
9 / 10

65
66

223RPF.DGN 10/1/03 CAR,CEO,RC

MED-3-17.82

MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3



** DENOTES RIGHT OF WAY ENCHROACHMENTS

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PROPERTY LINES

SEE SHEET 4 OF 10 FOR LIST OF THE INSTRUMENTS OF RECORD

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL

MONUMENT LEGEND

- ● -3/4 " x 30" REBAR WITH 1 ½" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- Ⓜ -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- ○M.N.F. -MAG NAIL FOUND
- ✕ -MAG NAIL SET
- ⊙I.P.F. -I.P. FOUND
- © -CONC. R/W MONUMENT FOUND
- Ⓜ -MONUMENT BOX FOUND
- ∅ -RAILROAD SPIKE FOUND
- ○P.K.F. -P.K. NAIL FOUND

** DENOTE RIGHT OF WAY ENCHROACHMENT

FIELD REVIEW BY CEO	DATE: 10/8/02	
OWNERSHIP VERIFIED BY BB	DATE: 11/14/02	
TM	8/5/03	REVISE 21WD
REV.	DATE	DESCRIPTION
DATE OF COMPLETION: 12/2/02		

SCALE IN FEET 0 20 40

P.I.D. NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

RIGHT OF WAY PLAN
STA. 10+50.00 TO STA. 14+00.00

MED-3-17.82

10/10

66/66

223RPG.DGN 8/19/03 CAR,CEO

INTRODUCTION

THIS REPORT CONSISTS OF THE SOIL EXPLORATION FOR THE PROPOSED INTERSECTION IMPROVEMENTS TO MED-3-18.19 AT THE INTERSECTION OF STATE ROUTE (S.R.) 3 AND S.R. 606 IN GRANGER AND HINKLEY TOWNSHIPS IN MEDINA COUNTY, OHIO. THE PROJECT SITE INCLUDES IMPROVEMENTS TO APPROXIMATELY 1665 FEET OF S.R. 3 WITH APPROXIMATELY 700 FEET OF THIS SECTION TO BE REALIGNED. THE PROJECT ALSO INCLUDES IMPROVEMENTS TO APPROXIMATELY 1000 FEET OF S.R. 606 WITH APPROXIMATELY 300 FEET OF THIS SECTION TO BE REALIGNED. THE SOUTH HEADWALL OF AN EXISTING BOX CULVERT WILL BE REPLACED DUE TO THE REALIGNMENT OF S.R. 3. INCLUDED IN THIS REPORT ARE TYPED DRILLING LOGS AND LAB RESULTS AT THE TEST BORING LOCATIONS.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

THE PROJECT SITE LIES ON THE GLACIATED, MODERATELY DISSECTED ALLEGHENY PLATEAU AT APPROXIMATE ELEVATIONS RANGING FROM 1180 TO 1200 FEET. THE SITE WAS GLACIATED BY THE WISCONSIN ICE SHEET WHICH DEPOSITED DRIFT OF VARIABLE THICKNESS RANGING FROM APPROXIMATELY 20 TO 45 FEET. THE SUBGRADE SOILS ENCOUNTERED, CONSISTED PRIMARILY OF SILT AND CLAY (A-6a). HOWEVER, OTHER COHESIVE AND NON-COHESIVE SOILS WERE ENCOUNTERED. THESE SOILS CONSISTED OF SANDY SILT (A-4a), GRAVEL AND ROCK FRAGMENTS WITH SAND AND SILT (A-2-4), AND SILTY CLAY (A-6b). THESE SOILS OVERLIE WISSISSIPPIAN-AGE SANDSTONE OF THE BEREA FORMATION OR PENNSYLVANIAN-AGE SANDSTONE OF THE SHARON FORMATION. BEDROCK WAS ENCOUNTERED AT AN ELEVATION OF 1155.9 FEET IN TEST BORING B-4.

EXPLORATION

A TOTAL OF NINE (9) EXPLORATORY TEST BORINGS WERE ADVANCED BY A TRUCK-MOUNTED, MECHANICALLY POWERED, HOLLOW-STEM ROTARY DRILL ON JANUARY 14 AND 15, 2002. SIX (6) TEST BORINGS (B-1 THROUGH B-6) WERE ADVANCED ALONG S.R. 3 AND THREE (3) TEST BORINGS (B-7 THROUGH B-9) WERE ADVANCED ALONG S.R. 606. ALL TEST BORINGS, EXCEPT FOR TEST BORING B-4, WERE ADVANCED FOR ROADWAY PAVEMENT DESIGN. TEST BORING B-4 WAS ADVANCED FOR CULVERT HEADWALL DESIGN. TEST BORINGS B-1, B-2, B-3, B-5, B-6, B-8, AND B-9 WERE ADVANCED TO A DEPTH OF 10.0 FEET. TEST BORING B-4 WAS ADVANCED TO A DEPTH OF 28.8 FEET AND TEST BORING B-7 WAS ADVANCED TO A DEPTH OF 13.7 FEET.

INVESTIGATIONAL FINDINGS

SOILS ENCOUNTERED AT THE PROJECT SITE CONSISTED PRIMARILY OF SILT AND CLAY (A-6a). HOWEVER, OTHER COHESIVE AND NON-COHESIVE SOILS WERE ENCOUNTERED. THESE SOILS CONSISTED OF SANDY SILT (A-4a), GRAVEL AND ROCK FRAGMENTS WITH SAND AND SILT (A-2-4), AND SILTY CLAY (A-6b). FIVE (5) OF THE EIGHT (8) COHESIVE SOILS TESTED FOR ATTERBERG LIMITS HAD MOISTURE CONTENTS GREATER THAN OR EQUAL TO THEIR PLASTIC LIMITS BUT LESS THAN THEIR LIQUID LIMITS. THE CONSISTENCIES OF THE COHESIVE SOILS RANGED FROM "MEDIUM STIFF" TO "HARD" BUT WERE PRIMARILY "VERY STIFF". THE NON-COHESIVE SOILS RANGED IN RELATIVE DENSITY FROM "LOOSE" TO "VERY DENSE" BUT WERE PRIMARILY "VERY DENSE".

BEDROCK WAS ENCOUNTERED AT AN ELEVATION OF 1155.9 FEET IN TEST BORING B-4. THE BEDROCK CONSISTED OF SOFT TO MEDIUM HARD, DECOMPOSED TO HIGHLY WEATHERED, FINE TO MEDIUM GRAINED SANDSTONE. SINCE THE BEDROCK WAS NOT CORED BUT RATHER SPLIT SPOON SAMPLED AS PER OUR SCOPE OF SERVICES, DETAILED BEDDING AND STRENGTH DATA ARE NOT AVAILABLE.

GROUNDWATER WAS ENCOUNTERED IN TEST BORING B-4 AT 8.5 FEET BELOW THE GROUND SURFACE AT AN ELEVATION OF 1170.85 FEET DURING DRILLING AND AT 10.5 FEET BELOW THE GROUND SURFACE AT AN ELEVATION OF 1168.85 UPON COMPLETION OF DRILLING.

FOR SPECIFIC CONDITIONS AT VARIOUS DEPTHS, PLEASE REFER TO THE INDIVIDUAL TEST BORING LOGS OR TO THE ODOT SOIL SUMMARY THAT FORM A PART OF THESE PLANS.

NOTES

ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE STRUCTURE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATION MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF MATERIALS MANAGEMENT AT 1600 WEST BROAD STREET, THE OFFICE OF ROADWAY ENGINEERING OR THE OFFICE OF STRUCTURAL ENGINEERING AT 1980 WEST BROAD STREET, COLUMBUS, OHIO 43215.

Station & Offset	Depth From	Depth To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L	P.I.	% W.C.	ODOT Class
941+52.14	1.6	3.5	8	7	13		73 *	30	11	19	A-6a
7.45' Rt.	3.5	6.0	Brown SILT AND CLAY, little sand, trace gravel							20	VISUAL
(B-1)	6.0	8.5	Brown SILT AND CLAY, little sand, trace gravel							24	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little sand, trace gravel							13	VISUAL
945+47.37	1.8	3.5	Brown and gray SILT AND CLAY, little sand, little gravel							23	VISUAL
10.55' Lt.	3.5	6.0	13	7	9		71 *	33	13	15	A-6a
(B-2)	6.0	8.5	Brown SILT AND CLAY, little gravel, trace sand							15	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little gravel, trace sand							14	VISUAL

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS- 7 SAMPLES TESTED

DESCRIPTION	ODOT CLASS	% AGG.	% C.SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLACTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL	A-1-a( )	--	--	--	--	--	--	--	--	--
GRAVEL WITH SAND	A-1-b( )	--	--	--	--	--	--	--	--	--
FINE SAND	A-3-( )	--	--	--	--	--	--	--	--	--
COARSE AND FINE SAND	A-3a( )	--	--	--	--	--	--	--	--	--
GRAVEL WITH SAND AND SILT	A-2-4(0)	--	--	--	--	--	--	--	--	0
GRAVEL WITH SAND, SILT AND CLAY	A-2-6( )	--	--	--	--	--	--	--	--	--
SANDY SILT	A-4a(1)	9	10	18	33	31	27	9	23	1
SILT	A-4b( )	--	--	--	--	--	--	--	--	--
SILT AND CLAY	A-6a(5)	12	7	11	--	71*	31	12	16	5
SILTY CLAY	A-6b(1)	4	5	10	--	81*	37	18	22	1
ELASTIC CLAY	A-7-5( )	--	--	--	--	--	--	--	--	--
CLAY	A-7-6( )	--	--	--	--	--	--	--	--	--
RANDOM FILL	VISUAL CLASSIFICATION									
WEATHERED SHALE	VISUAL CLASSIFICATION									
MUDSTONE	VISUAL CLASSIFICATION									
SHALE	VISUAL CLASSIFICATION									
SANDSTONE	VISUAL CLASSIFICATION									
LIMESTONE	VISUAL CLASSIFICATION									
VARIOUS OTHER MATERIAL	VISUAL CLASSIFICATION									

SOD AND/OR TOP SOIL - X - APPROXIMATE DEPTH

BERM MATERIAL

AUGER BORING LOCATION-PLAN VIEW.

PRESS AND/OR DRIVE SAMPLE AND/OR CORE BORING LOCATION-PLAN VIEW.

- WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT
- INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT

W —— INDICATES FREE WATER ELEVATION

▼—— INDICATES STATIC WATER ELEVATION

HORIZONTAL BAR ON BORING LOG INDICATES THE DEPTH THE SAMPLE WAS TAKEN.

X-Y-Z OR — FIGURES BESIDE THE BORING LOG IN PROFILE INDICATE THE NUMBER OF BLOWS FOR STANDARD PENETRATION TEST.

X = NO. OF BLOWS FOR FIRST 6 in
Y = NO. OF BLOWS FOR SECOND 6 in
Z = NO. OF BLOWS FOR THIRD 6 in

NOTE: FIGURES BESIDE BORINGS INDICATE WAER CONTENT IN PERCENT, e.g. 15

* DENOTES SILT AND CLAY COMBINED

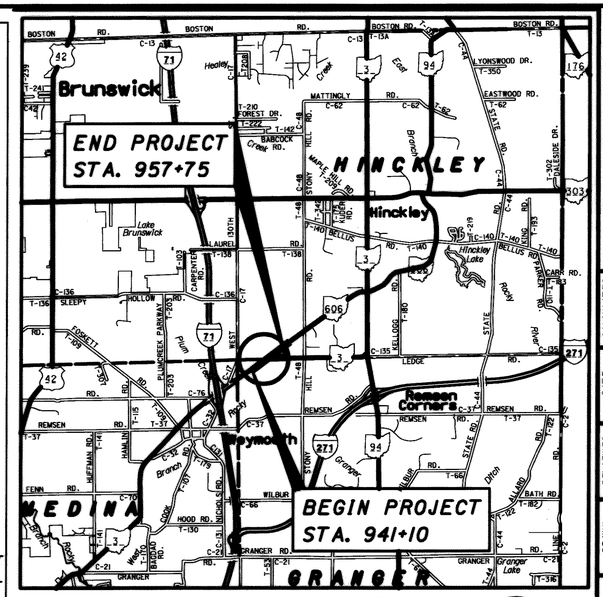
SUMMARY OF SOIL TEST DATA

NOTE: NP SHOWN IN LIQUID LIMIT AND PLASTICITY INDEX COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC

** DENOTES SAMPLE TAKEN AT OR NEAR GRADE.

Station & Offset	Depth From	Depth To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L	P.I.	% W.C.	ODOT Class
949+44.46	0.0	0.2	Brown TOPSOIL							--	VISUAL
2.38' Lt.	0.2	1.0	Brown SILT AND CLAY, little sand, trace gravel							--	VISUAL
(B-3)	1.0	3.5	8	8	12		73 *	30	12	13	A-6a
	3.5	6.0	Brown SILT AND CLAY, little sand, trace gravel							13	VISUAL
	6.0	8.5	Brown SILT AND CLAY, little sand, trace gravel							13	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little sand, trace gravel							13	VISUAL
953+68.02	1.6	3.5	Gray SILT AND CLAY, little gravel, trace sand							19	VISUAL
8.90' Lt.	3.5	6.0	4	5	10		81 *	37	18	22	A-6b
(B-5)	6.0	8.5	Gray SILT AND CLAY, little gravel, trace sand							15	VISUAL
	8.5	10.0	Gray SILT AND CLAY, little gravel, trace sand							16	VISUAL
957+64.01	1.8	3.5	18	4	9		69 *	30	12	19	A-6a
5.64' Rt.	3.5	6.0	Brown SILT AND CLAY, little gravel, trace sand							19	VISUAL
(B-6)	6.0	8.5	Brown SILT AND CLAY, little gravel, trace sand							15	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little gravel and ss frags, trace sand							14	VISUAL
4+93.96	1.0	3.5	Gray SILT AND CLAY, little gravel, trace sand							13	VISUAL
2.63' Lt.	3.5	6.0	Brown SILT AND CLAY, little gravel, trace sand							13	VISUAL
(B-7)	6.0	8.5	Brown SANDSTONE FRAGMENTS WITH SAND AND SILT							13	VISUAL
	8.5	11.0	Brown SANDSTONE FRAGMENTS WITH SAND AND SILT							13	VISUAL
	11.0	13.7	Brown SANDY SILT, little sandstone fragments							19	VISUAL
7+90.54	1.4	3.5	Gray SILT AND CLAY, little gravel, trace sand							16	VISUAL
8.07' Rt.	3.5	6.0	9	10	18	33	31	27	9	23	A-4a
(B-8)	6.0	8.5	Brown SANDY SILT, some clay, trace gravel							23	VISUAL
	8.5	10.0	Gray SILT AND CLAY, trace gravel, trace sand							13	VISUAL
10+80.15	1.2	3.5	11	7	13		69 *	30	12	13	A-6a
4.33' Lt.	3.5	6.0	Brown SILT AND CLAY, little gravel, trace sand							14	VISUAL
(B-9)	6.0	8.5	Brown SILT AND CLAY, little gravel, trace sand							14	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little gravel, trace sand							14	VISUAL

* Denotes silt and clay combined



LOCATION MAP

GENERAL INFORMATION

DRIVE SAMPLES

DRIVE SAMPLE BORINGS ARE MADE BY MEANS OF A MECHANICALLY-POWERED, ROTARY-TYPE DRILL RIG EMPLOYING A 2.0 INCH O.D., 1.4 INCH I.D., SPLIT-SPOON SAMPLER, AT CONTINUOUS, 2.5 FOOT AND/OR 5.0 FOOT DEPTH INTERVALS, DRIVEN BY MEANS OF A 140 lb HAMMER WITH A FREE FALL OF 30 INCHES. THE NUMBER OF BLOWS REQUIRED TO DRIVE THE SAMPLER THREE 6 INCH INCREMENTS IS CONSIDERED THE STANDARD PENETRATION TEST.

PRESS SAMPLES

PRESS SAMPLES ARE TAKEN BY MEANS OF MECHANICALLY-POWERED, ROTARY-TYPE DRILL RIG, EMPLOYING A 3 INCH O.D. THIN WALL PRESS SAMPLING TUBE. THE PRESS SAMPLING TUBE IS ADVANCED BY CONTINUOUS UNIFORM PRESSURE APPLIED BY THE DRILL RIG.

CORE BORINGS

CORE BORINGS ARE MADE BY MEANS OF A MECHANICALLY-POWERED, ROTARY-TYPE DRILL RIG, EMPLOYING AN NW-PAM CORE BARREL WITH AN INDUSTRIAL DIAMOND CUTTING HEAD.

SAMPLING AND TESTING

THE BORING LOG SHEETS SHOW A GRAPHIC PLOT OF THE INFORMATION OBTAINED, INCLUDING DEPTH AND ELEVATION OF THE SAMPLE, TYPE OF SAMPLE, NUMBER OF BLOWS FOR THE STANDARD PENETRATION TEST IN THREE 6 INCH INCREMENTS, AND A SAMPLE DESCRIPTION BASED ON LABORATORY TEST RESULTS, UTILIZING THE ODOT CLASSIFICATION SYSTEM. RESULTS OF STRENGTH AND CONSOLIDATION TESTING, IF PERFORMED ON UNDISTURBED SAMPLES, APPEAR GRAPHICALLY ON SEPARATE ENCLOSURES. ROCK SAMPLES ARE DISPLAYED ON THE LOG SHEETS, INCLUDING DEPTH AND ELEVATION OF THE SAMPLE, AMOUNT OF RECOVERY, AND A VISUAL CLASSIFICATION BASED ON TYPE, COLOR, DEGREE OF HARDNESS, GRAIN SIZE, DETERIORATION, BEDDING, ACID REACTION, AND OTHER QUALIFYING FACTORS.

AT DEPTHS WHERE MATERIALS ARE BOULDERY OR GRAVELLY TO THE EXTENT THAT A SAMPLER CANNOT BE UTILIZED, A WASH SAMPLE IS PROCURED AND VISUALLY CLASSIFIED, IN ORDER TO DETERMINE THE GENERAL CHARACTERISTICS OF THE MATERIAL. THESE SAMPLES ARE NOT CONSIDERED SUFFICIENTLY REPRESENTATIVE TO WARRANT LABORATORY TESTING.

RECON - S.M. 1/9/02

Drilling - Auger - N.A.D.I. 1/14/02 TO 1/15/02

Drafting - M.B. 3/29/02

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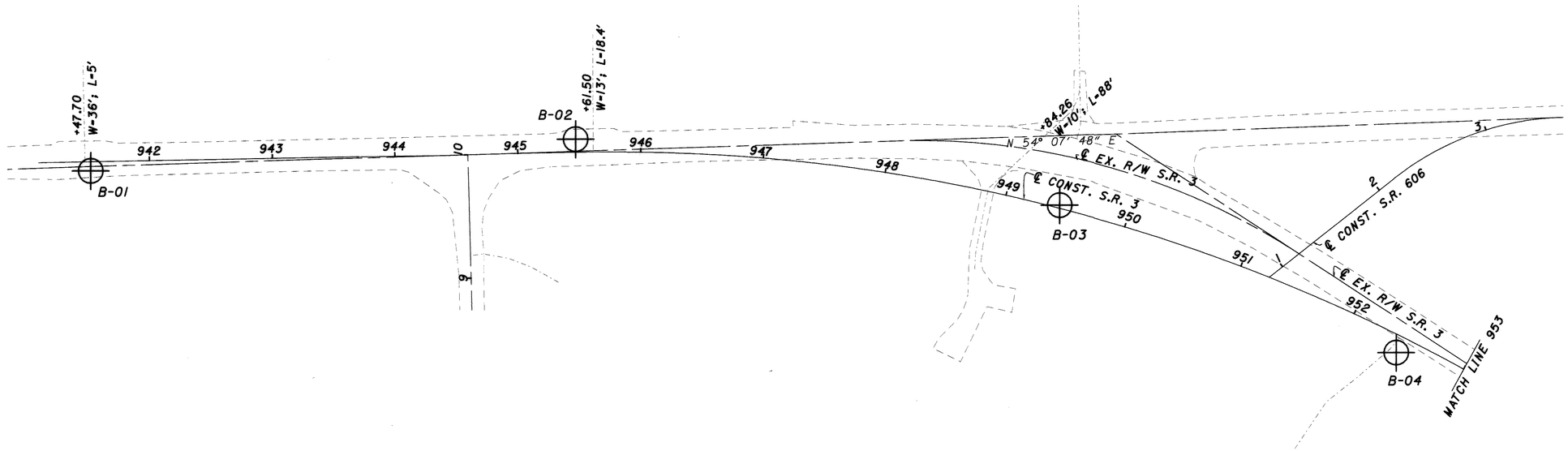
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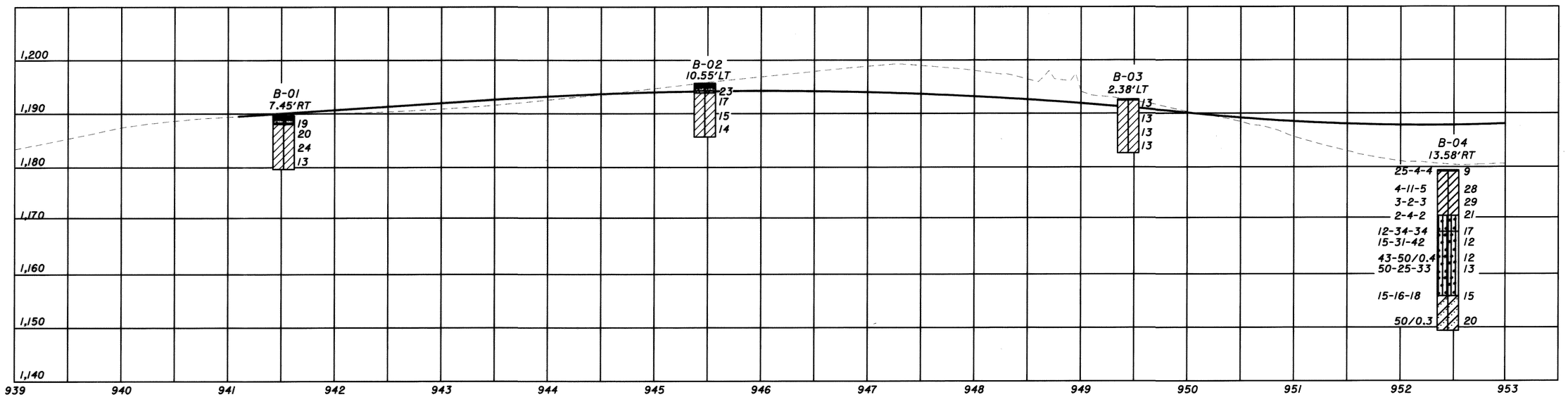
SOIL PROFILE

MEDINA COUNTY MED-3-18.19

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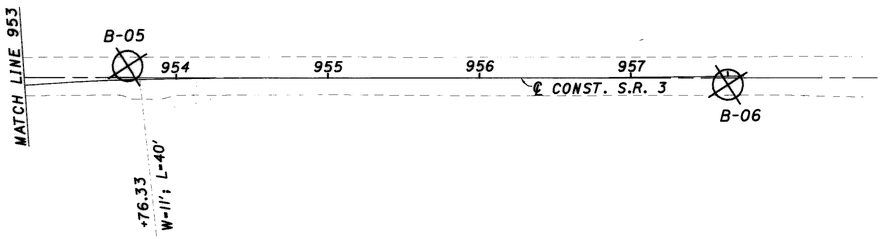
HORIZONTAL SCALE IN FEET
0 10 20 40

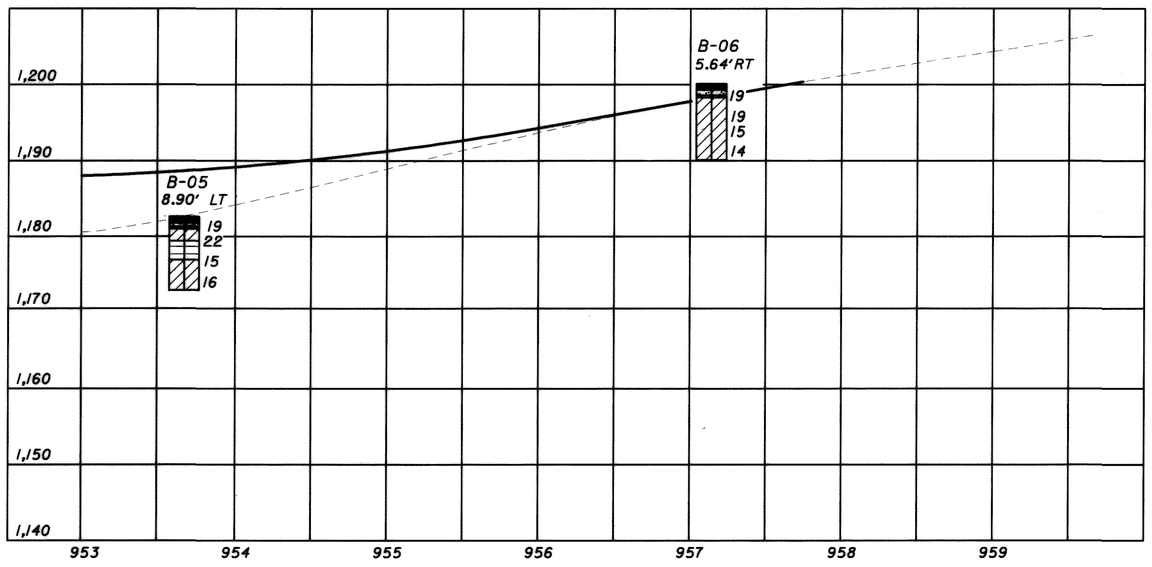
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SOIL PROFILE

MEDINA COUNTY
MED-3-18.19

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HORIZONTAL SCALE IN FEET
0' 10' 20' 40'

DRAWN	REVIEWED	DATE	CALCULATED	CHECKED
BM	SM	04/01/02	WIN	SSS

SOIL PROFILE

MEDINA COUNTY
MED-3-18.19

3 / 5

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HORIZONTAL SCALE IN FEET
0' 10' 20' 40'

CALCULATED WIN
CHECKED SSS
DATE 04/01/02
REVIEWED SM
DRAWN BM

SOIL PROFILE

MEDINA COUNTY
MED-3-18.19

4/5

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State of Ohio
Department of Transportation
Division of Highways
Testing Laboratory

LOG OF BORING

Date Started 1/14/02 Sampler: Type SS Dia. 2.0" Water Elev. 1168.9ft
Date Completed 1/15/02 Casing: Length ____ Dia. 3.25"

Project Identification: MED-3-18.19
G01085
Granger/Hinckley Townships, Medina Co., Ohio

Boring No. B-04 Station & Offset 952+44.52, 13.58' Rt. Surface Elev. 1179.35ft

Elev. (ft)	Depth (ft)	Std. Pene. /Ft or RQD	Rec. (ft)	Loss (ft)	Description	Sample No.	Physical Characteristics: % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	ODOT Class
1179.4	0														
1179.2		25 - 4 - 4			TOPSOIL Medium stiff to very stiff, brown SILT AND CLAY (A-6a), little sand, trace gravel, moist. (fill) Note: Some asphalt pieces in sample at 1.0 feet.	1	--	--	--	--	--	--	--	9	VISUAL
	4	4 - 11 - 5			Note: Trace wood at 3.5 feet.	2	--	--	--	--	--	--	--	28	VISUAL
	6	3 - 2 - 3				3	--	--	--	--	--	--	--	29	VISUAL
	8				Note: Wet at 8.5 feet during drilling.										
1170.9		2 - 4 - 2			Loose, gray GRAVEL AND ROCK FRAGMENTS WITH SAND AND SILT (A-2-4), wet. (fill)	4	39	15	15	--	32 *	31	10	21	A-2-4
	10				Note: Wet at 10.5 feet upon completion of drilling.										
1167.9	12	12 - 34 - 34			Very dense, brown, non-cohesive, SANDSTONE FRAGMENTS WITH SAND AND SILT (A-2-4), moist.	5	--	--	--	--	--	--	--	17	VISUAL
	14	15 - 31 - 42				6	--	--	--	--	--	--	--	12	VISUAL
	16	43 - 50/0.4				7	--	--	--	--	--	--	--	12	VISUAL
	18	50 - 25 - 33				8	--	--	--	--	--	--	--	13	VISUAL
	20														
	22														
1155.9	24	15 - 16 - 18			Soft to hard, gray, decomposed to weathered SANDSTONE.	9	--	--	--	--	--	--	--	15	VISUAL
	26														
	28	50/0.3			Note: Augered to 30.0 feet upon split spoon refusal at 28.8 feet.	10	--	--	--	--	--	--	--	20	VISUAL
1149.4	30				TERMINATION DEPTH = 30.0 FEET.										

Particle Sizes: Agg => 2.00mm, Coarse Sand = 2.00-0.42mm, Fine Sand = 0.42-0.074mm, Silt = 0.074-0.005mm, Clay =< 0.005mm.

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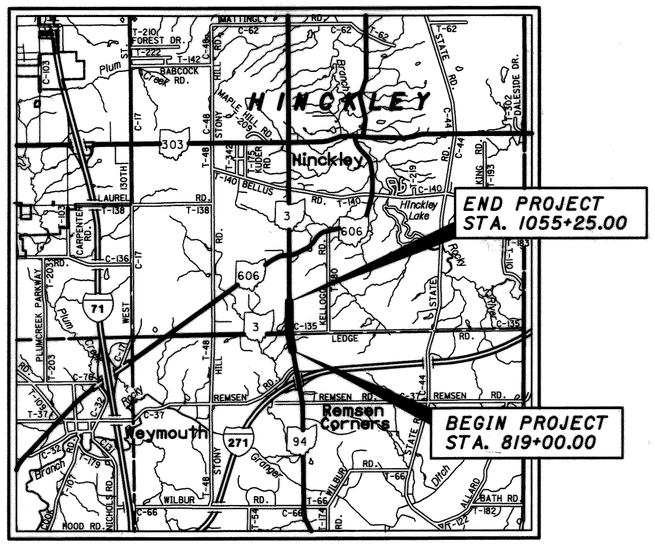
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SOIL PROFILE

MEDINA COUNTY
MED-3-18.19

5 / 5

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LOCATION MAP

LATITUDE: N41°12'07" LONGITUDE: W81°44'43"

SCALE IN MILES

0 1 2 3 4

PORTION TO BE IMPROVED

INTERSTATE & DIVIDED HIGHWAY

UNDIVIDED STATE & FEDERAL ROUTES

OTHER ROADS

DESIGN DESIGNATION

	S.R. 94	S.R. 3	LEDGE RD.
CURRENT ADT (2003)	9920	6160	1350
DESIGN YEAR ADT (2023)	13450	8360	1830
DESIGN HOURLY VOLUME (2023)	1345	836	183
DIRECTIONAL DISTRIBUTION	65%	65%	65%
TRUCKS (24 HOUR B&C)	7.5%	7.5%	7.5%
DESIGN SPEED	55mph	55mph	55mph
LEGAL SPEED	55mph	55mph	55mph

DESIGN FUNCTIONAL CLASSIFICATION -
RURAL MAJOR COLLECTOR (S.R. 94 & S.R. 3)
LOCAL RURAL (LEDGE ROAD)

DESIGN EXCEPTIONS

NONE REQUIRED

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

MED-94-15.82

PART 2

HINCKLEY TOWNSHIP
GRANGER TOWNSHIP
MEDINA COUNTY

FOR PART 1 SEE MED-3-17.82

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PROJECT DESCRIPTION

IMPROVEMENT OF 0.51 MILE OF S.R. 94 IN GRANGER AND HINCKLEY TOWNSHIPS, MEDINA COUNTY, BY RECONSTRUCTION OF EXISTING VERTICAL CURVES INCLUDING UPGRADING GUARDRAIL, DRAINAGE, SIGNING, PAVEMENT MARKINGS, THE REPLACEMENT OF AN EXISTING 4.5'x4' BOX CULVERT, AND THE ADDITION OF TURN LANES. ALSO RECONSTRUCTION OF 0.29 MILE OF S.R.3 AND LEDGE ROAD.

2002 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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 13 TO 15.

FEDERAL PROJECT NO. E 032 (893)

PID NO. 21984

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

MED-94-15.82

1 / 101

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:

WOOLPERT LLP
2760 AIRPORT DRIVE, SUITE 140
COLUMBUS, OHIO 43219

WOOLPERT

ENGINEERS SEAL:

STATE OF OHIO
JAMES D. PROSCH
53609
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: James D. Prosch
DATE: 9-30-03

STANDARD CONSTRUCTION DRAWINGS

SEE PART 1

SUPPLEMENTAL SPECIFICATIONS

SEE PART 1

SPECIAL PROVISIONS

APPROVED Thomas M. O'Leary KS
DATE 10-8-03 DISTRICT DEPUTY DIRECTOR

APPROVED Gordon Proctor Jr.
DATE 10-27-03 DIRECTOR, DEPARTMENT OF TRANSPORTATION

09:03:02 AM
09/08/2003
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S.R. 94 Curve Data

P.I. = Sta 820+13.86
Deflection = 00° 19′ 10″ Right
No Curve

P.I. Sta = 822+00.01
Δ = 4° 53′ 57″ (RT)
Dc = 2° 15′ 00″
R = 2,546.48′
Ls = 130.00′
Theta = 1° 27′ 45″
LT = 86.67′
ST = 43.34′
x = 129.99′
y = 1.11′
k = 65.00′
p = 0.28′
Δc = 1° 58′ 27″ (RT)
Lc = 87.74′
Ts = 173.95′
Es = 2.61′
e_{max} = 0.050
Design Speed = 55mph

P.I. Sta = 825+51.14
Δ = 4° 53′ 57″ (LT)
Dc = 2° 15′ 00″
R = 2,546.48′
Ls = 130.00′
Theta = 1° 27′ 45″
LT = 86.67′
ST = 43.34′
x = 129.99′
y = 1.11′
k = 65.00′
p = 0.28′
Δc = 1° 58′ 27″ (LT)
Lc = 87.74′
Ts = 173.95′
Es = 2.61′
e_{max} = 0.050
Design Speed = 55mph

P.I. Sta = 836+83.22
Δ = 10° 38′ 55″ (RT)
Δc = 1° 00′ 00″
R = 5,729.58′
T = 533.97′
L = 1,064.86′
E = 24.83′
e_{max} = 0.025
Design Speed = 55mph

S.R. 3

P.I. = Sta. 1133+73.07
Deflection = 00° 01′ 44″ Right
No Curve

Begin Work
Sta. 1034+95.00

Ex. S.R. 3
1035+00
N 89° 22′ 35″ E
1040+00
1130+00
N 89° 22′ 35″ E
1135+00
N 89° 24′ 19″ E
1140+00
Ex. Ledge Road

Prop. 36″ Conduit
Ex. 48″ CMP
℄ Survey & Construction S.R. 3

Granger Township

EQUATION:
Sta 1041+15.67 BK =
Sta 1128+09.64 AH

Hinckley Township

Remove Existing Pavement, Remove Drive Pipe
Fill Ditches, Grade to Drain,
and Seed. See General Note, Sheet 10.

EQUATION:
PT Sta 842+14.11 BK =
Sta 1051+33.15 AH

Prop. 24″ Conduit

Sta. 835+22.94 ℄ S.R. 94 =
Sta. 1134+14.71 ℄ S.R. 3/Ledge Rd.

Begin Work
Sta. 818+80.00

PI Sta. 820+13.86
N 10° 15′ 20″ W
TS Sta. 823+17.69
SC Sta. 825+07.19
CS Sta. 825+94.93
ST Sta. 827+24.93
825+00
820+00
Ex. S.R. 94
N 10° 34′ 20″ W
N 5° 21′ 23″ W
TS Sta. 820+26.06
SC Sta. 821+56.06
CS Sta. 822+43.80
ST Sta. 823+73.80

℄ Survey & Construction S.R. 94
Prop. 66″ Conduit
830+00
N 10° 15′ 20″ W
Ex. 4.5′x4′ Box Culvert
PC Sta. 831+49.25

℄ Survey & Construction Ledge Road

840+00
835+00
PI Sta. 1133+73.07

1055+00
N 0° 23′ 35″ E
Ex. 18″ VCT
℄ Survey & Construction S.R. 94
Ex. S.R. 94

Hinckley Township

End Work
Sta. 1138+20.00

End Project
Sta. 1055+25.00
S.L.M. 16.33

End Work
Sta. 1055+45.00

Begin Project
Sta. 819+00.00
S.L.M. 15.82

There are no existing landscaped areas within the work limits.

N

HORIZONTAL SCALE IN FEET
0 50 100 200

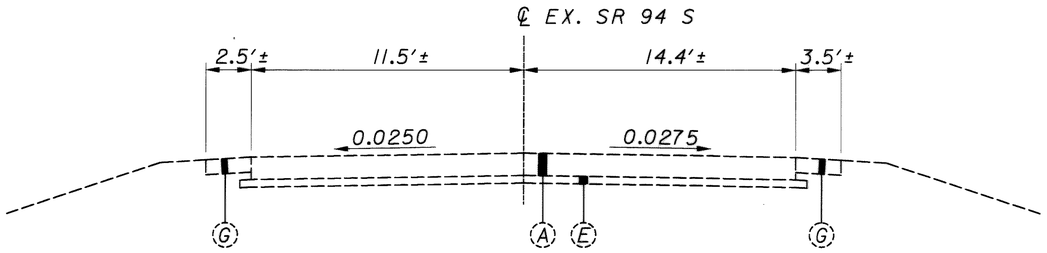
CALCULATED BBD
CHECKED JAP

SCHEMATIC PLAN

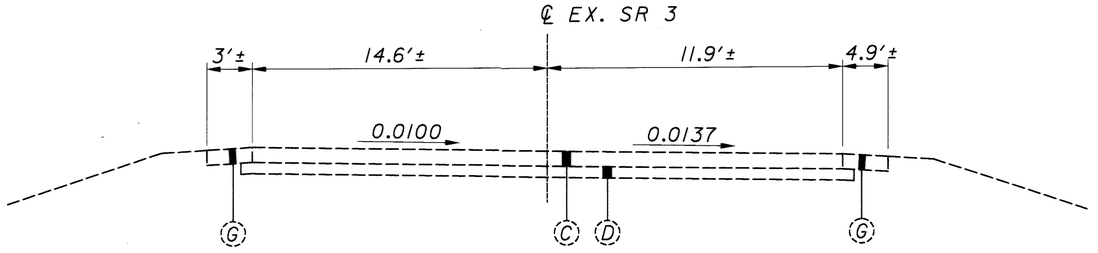
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101

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EXISTING SR 94 SOUTH

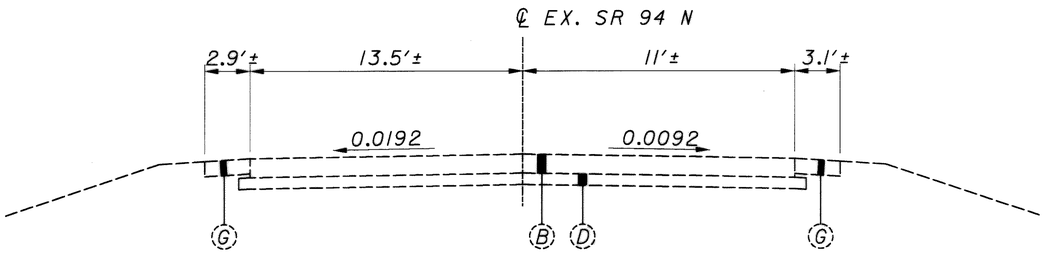


EXISTING SR 3

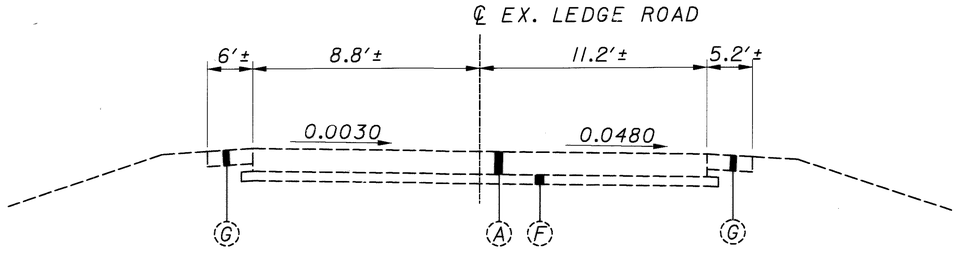
LEGEND

- (A) 12" ± ASPHALT PAVEMENT
- (B) 10" ± ASPHALT PAVEMENT
- (C) 8" ± ASPHALT PAVEMENT
- (D) 6" ± CONCRETE BASE
- (E) 4" ± CONCRETE BASE
- (F) 5" ± AGGREGATE BASE
- (G) 8" ± AGGREGATE SHOULDER

EDGE OF PAVEMENT TRANSITION												
LOCATION	LEFT EDGE ELEV.	CORR. FROM PROFILE GRADE	CROSS SLOPE	DIST FROM CL	CL & PROFILE GRADE ELEV.	CL STATION	DIST. FROM CL	CROSS SLOPE	CORR. FROM PROFILE GRADE	RIGHT EDGE ELEV.		
S.R. 94 SOUTH	1188.86	-0.29	-0.0250	11.5	1189.15	819+00.00	14.4	-0.0275	-0.40	1188.75	EX.	2:1
	1189.48	-0.19	-0.0156	11.9	1189.67	819+23.69	14.0	-0.0181	-0.25	1189.42		
	1189.61	-0.19	-0.0156	12	1189.80	819+29.99	13.9	-0.0156	-0.22	1189.58		
S.R. 94 NORTH	1206.47	-0.21	-0.0156	13.2	1206.68	1055+08.87	11.3	-0.0156	-0.17	1206.51		2:1
	1206.41	-0.21	-0.0156	13.3	1206.62	1055+15.93	11.2	-0.0128	-0.14	1206.48		
	1206.39	-0.23	-0.0192	13.5	1206.62	1055+25.00	11.0	-0.0092	-0.11	1206.51	EX.	
S.R. 3	1175.27	0.15	0.0100	14.6	1175.12	1035+75.00	11.9	-0.0137	-0.16	1174.76	EX.	
	1175.38	0.12	0.0081	14.5	1175.16	1035+79.79	12	-0.0156	-0.19	1174.97		
	1175.35	0.00	0.0001	14.1	1175.35	1036+00.00	12	-0.0156	-0.19	1175.16		2:1
	1175.45	-0.13	-0.0098	13.7	1175.58	1036+25.00	12	-0.0156	-0.19	1175.39		
	1175.50	-0.21	-0.0156	13.4	1175.71	1036+39.51	12	-0.0156	-0.19	1175.52		
LEDGE ROAD	1193.46	-0.19	-0.0156	12	1193.65	1137+31.96	12	-0.0156	-0.19	1193.46		
	1193.37	-0.19	-0.0156	12	1193.56	1137+50.00	12	-0.0242	-0.29	1193.27		
	1193.31	-0.18	-0.0156	11.4	1193.49	1137+60.94	11.9	-0.0294	-0.35	1193.14		2:1
	1193.30	-0.09	-0.0089	10.5	1193.39	1137+75.00	11.7	-0.0361	-0.42	1192.97		
	1193.21	0.03	0.0030	8.8	1193.18	1138+00.00	11.2	-0.0480	-0.54	1192.64	EX.	



EXISTING SR 94 NORTH

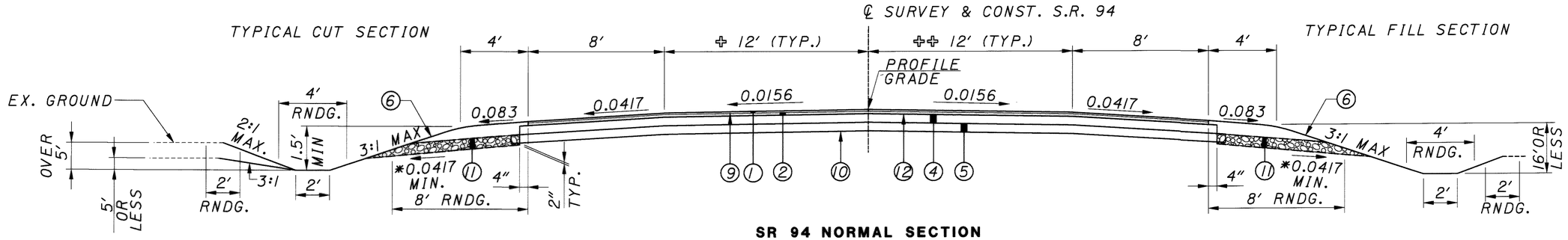


EXISTING LEDGE ROAD

EXISTING TYPICAL SECTIONS

MED-94-15.82

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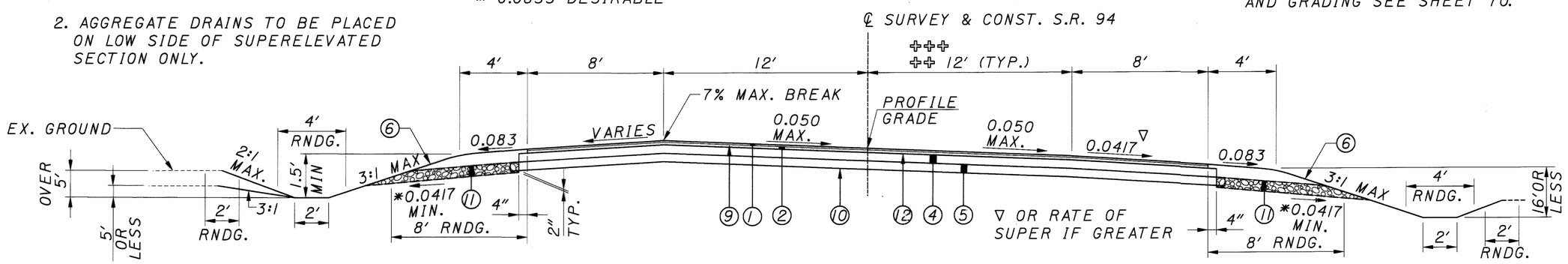
SR 94 NORMAL SECTION

STA. 819+00.00 TO STA. 819+86.75 = 86.75 LIN. FT.

NOTES:
1. FOR BARRIER GRADING SEE SHEET 5.
2. AGGREGATE DRAINS TO BE PLACED ON LOW SIDE OF SUPERELEVATED SECTION ONLY.

* 0.0833 DESIRABLE

STA. 834+53.38 TO STA. 835+90.92, FOR INTERSECTION PAVEMENT WIDTHS AND GRADING SEE SHEET 70.



SR 94 SUPERELEVATED SECTION

STA. 819+86.75 TO STA. 822+60.00 = 273.25 LIN. FT.

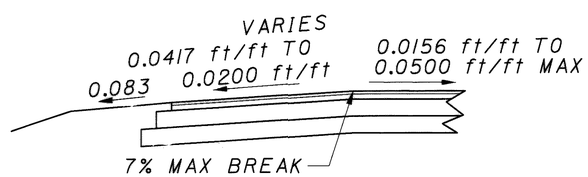
✣ VARIES 12.5′ TO 12.0′ FROM STA. 819+00.00 TO STA. 819+27.50

✣✣ VARIES 14.4′ TO 12.0′ FROM STA. 819+00.00 TO STA. 820+32.00.

✣✣✣ VARIES 12.0′ TO 23.0′ FROM STA. 820+97.09 TO STA. 827+02.09.

LEGEND

① ITEM 448 - 1.25″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
② ITEM 448 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
③ NOT USED
④ ITEM 301 - 8″ ASPHALT CONCRETE BASE, PG64-22
⑤ ITEM 304 - 6″ AGGREGATE BASE
⑥ ITEM 659 - SEEDING & MULCHING (SEE GENERAL NOTES)
⑦ NOT USED
⑧ NOT USED
⑨ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTES)
⑩ ITEM 204 - SUBGRADE COMPACTION
⑪ ITEM 605 - AGGREGATE DRAINS (SEE GENERAL NOTES)
⑫ ITEM 407 - TACK COAT (SEE GENERAL NOTES)
⑬ ITEM 605 - 4″ PIPE UNDERDRAINS (SEE UNDERDRAINS SUMMARY SHEET)

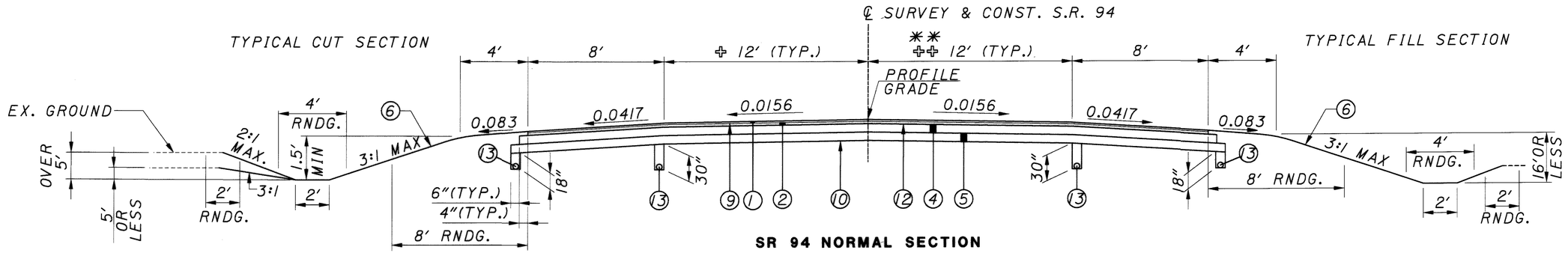


SHOULDER BREAKOVER DETAILS

TYPICAL SECTIONS

MED-94-15.82

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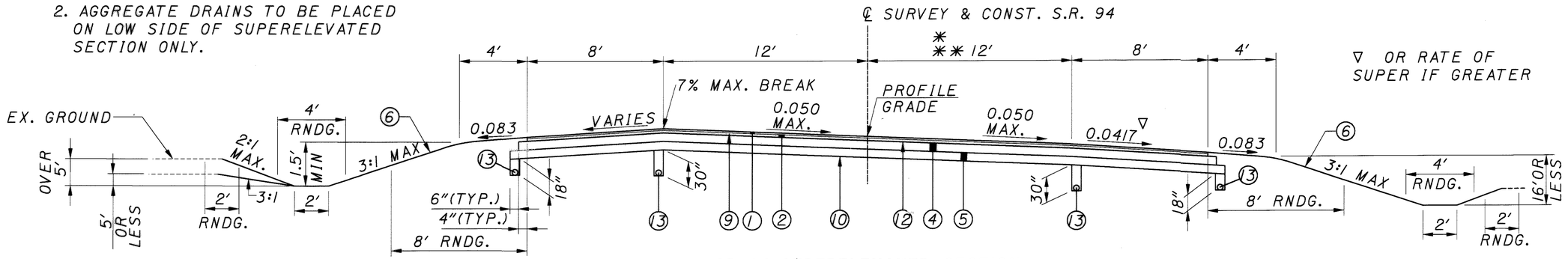
SR 94 NORMAL SECTION

STA. 827+64.24 TO STA. 830+67.73 = 303.49 LIN. FT.
STA. 1052+14.67 TO STA. 1055+25.00 = 310.33 LIN. FT.
613.82 LIN. FT.

NOTES:
1. FOR BARRIER GRADING SEE SHEET 5.

2. AGGREGATE DRAINS TO BE PLACED ON LOW SIDE OF SUPERELEVATED SECTION ONLY.

STA. 834+53.38 TO STA. 835+90.92, FOR INTERSECTION PAVEMENT WIDTHS AND GRADING SEE SHEET 70.

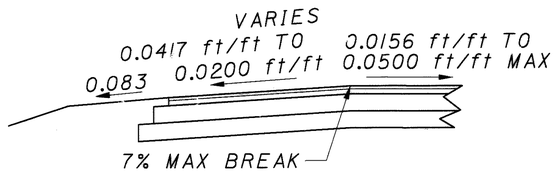


SR 94 SUPERELEVATED SECTION

STA. 822+60.00	TO STA. 823+75.50	= 115.50 LIN. FT.
STA. 830+67.73	TO STA. 842+14.11(BACK)	= 1146.38 LIN. FT.
STA. 1051+33.15(AHEAD)	TO STA. 1052+14.67	= 81.52 LIN. FT.
		1343.40 LIN. FT.
STA. 823+75.50	TO STA. 827+64.24	= 388.74 LIN. FT. (SUPERELEVATION DIRECTION REVERSED)

LEGEND

(1) ITEM 448 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
(2) ITEM 448 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
(3) NOT USED
(4) ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-22
(5) ITEM 304 - 6" AGGREGATE BASE
(6) ITEM 659 - SEEDING & MULCHING (SEE GENERAL NOTES)
(7) NOT USED
(8) NOT USED
(9) ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTES)
(10) ITEM 204 - SUBGRADE COMPACTION
(11) ITEM 605 - AGGREGATE DRAINS (SEE GENERAL NOTES)
(12) ITEM 407 - TACK COAT (SEE GENERAL NOTES)
(13) ITEM 605 - 4" PIPE UNDERDRAINS (SEE UNDERDRAINS SUMMARY SHEET)



SHOULDER BREAKOVER DETAILS

✣ VARIES 12.5' TO 13.5' FROM STA. 1054+42.50 TO STA. 1055+25.00

✣✣ VARIES 12.0' TO 11.0' FROM STA. 1054+70.00 TO STA. 1055+25.00.

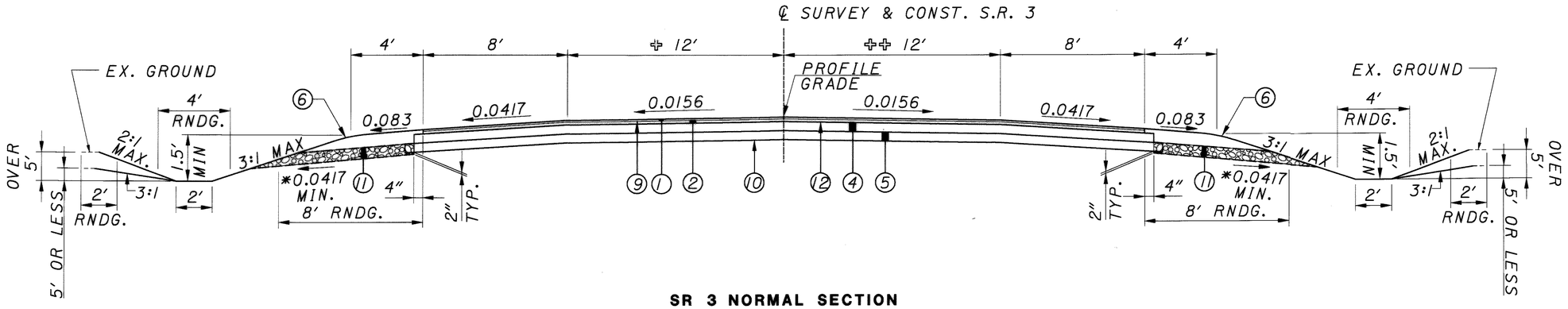
✳ VARIES 12.0' TO 23.0' FROM STA. 820+97.09 TO STA. 827+02.09.

✳✳ VARIES 23.0' TO 12.0' FROM STA. 838+40.92 TO STA. 1053+64.96.

TYPICAL SECTIONS

MED-94-15.82

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SR 3 NORMAL SECTION

STA. 1035+75.00 TO STA. 1037+00.00 = 125.00 LIN. FT.

* 0.0833 DESIRABLE

✣ VARIES 14.6′ TO 12.0′ FROM STA. 1035+75.00 TO STA. 1037+18.00

✣✣ VARIES 11.9′ TO 12.0′ FROM STA. 1035+75.00 TO STA. 1135+80.50.

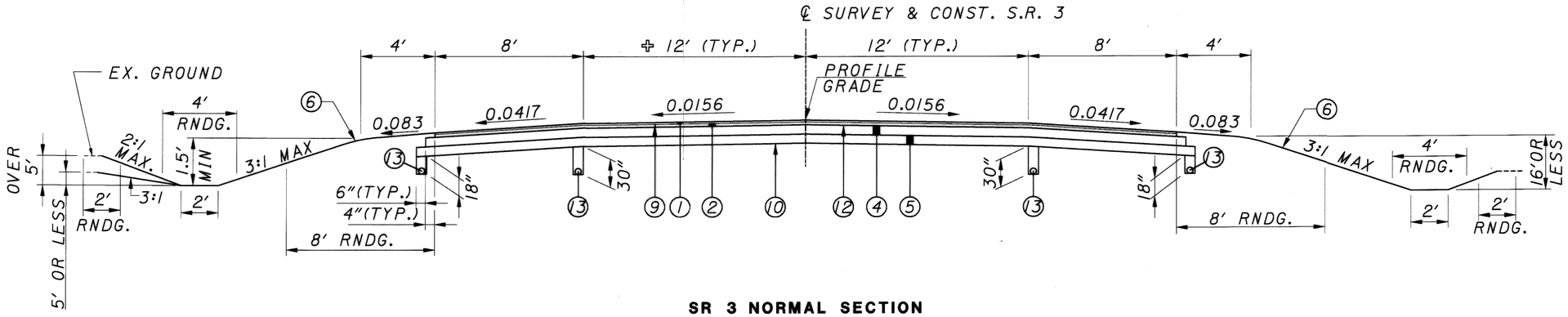
LEGEND

① ITEM 448 - 1.25″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
② ITEM 448 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
③ NOT USED
④ ITEM 301 - 8″ ASPHALT CONCRETE BASE, PG64-22
⑤ ITEM 304 - 6″ AGGREGATE BASE
⑥ ITEM 659 - SEEDING & MULCHING (SEE GENERAL NOTES)
⑦ NOT USED
⑧ NOT USED
⑨ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTES)
⑩ ITEM 204 - SUBGRADE COMPACTION
⑪ ITEM 605 - AGGREGATE DRAINS (SEE GENERAL NOTES)
⑫ ITEM 407 - TACK COAT (SEE GENERAL NOTES)
⑬ ITEM 605 - 4″ PIPE UNDERDRAINS (SEE UNDERDRAINS SUMMARY SHEET)

TYPICAL SECTIONS

MED-94-15.82

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SR 3 NORMAL SECTION

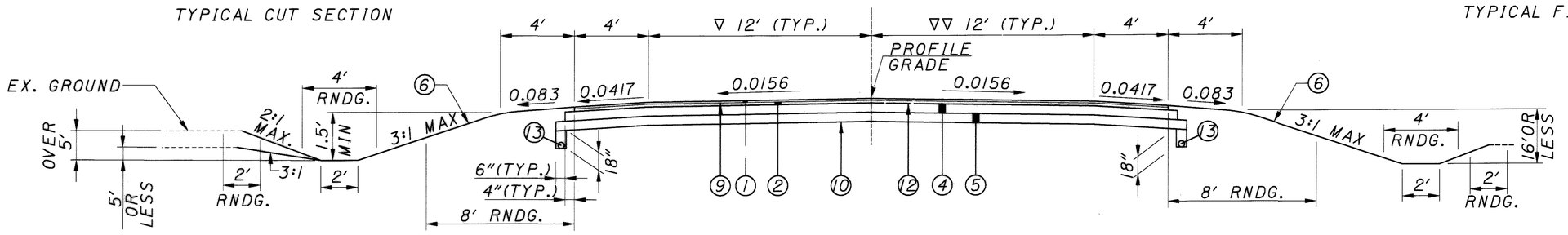
* 0.0833 DESIRABLE

STA. 1037+00.00 TO STA. 1041+15.67(BACK) = 415.67 LIN. FT.
STA. 1128+09.64(AHEAD) TO STA. 1134+02.71 = 593.07 LIN. FT.
1008.74 LIN. FT.

✣ VARIES 14.6′ TO 12.0′ FROM STA. 1035+75.00 TO STA. 1037+18.00

TYPICAL CUT SECTION

TYPICAL FILL SECTION



LEDGE ROAD NORMAL SECTION

STA. 1134+37.84 TO STA. 1138+00.00 = 362.16 LIN. FT.

▽ VARIES 12.0′ TO 8.8′ FROM STA. 1137+52.00 TO STA. 1138+00.00

▽▽ VARIES 12.0′ TO 11.2′ FROM STA. 1137+56.00 TO STA. 1138+00.00.

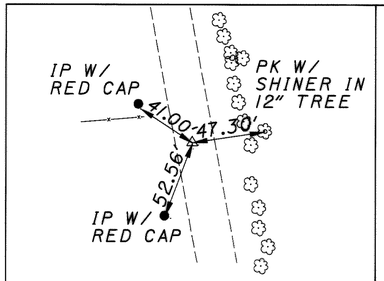
LEGEND

① ITEM 448 - 1.25″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
② ITEM 448 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
③ NOT USED
④ ITEM 301 - 8″ ASPHALT CONCRETE BASE, PG64-22
⑤ ITEM 304 - 6″ AGGREGATE BASE
⑥ ITEM 659 - SEEDING & MULCHING (SEE GENERAL NOTES)
⑦ ITEM 606 - GUARDRAIL, TYPE 5
⑧ NOT USED
⑨ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTES)
⑩ ITEM 204 - SUBGRADE COMPACTION
⑪ ITEM 605 - AGGREGATE DRAINS (SEE GENERAL NOTES)
⑫ ITEM 407 - TACK COAT (SEE GENERAL NOTES)
⑬ ITEM 605 - 4″ PIPE UNDERDRAINS (SEE UNDERDRAINS SUMMARY SHEET)

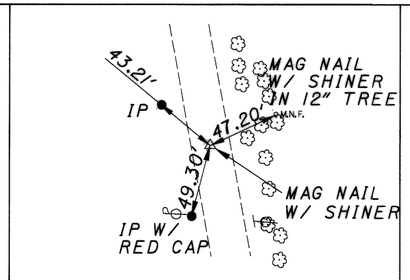
TYPICAL SECTIONS

MED-94-15.82

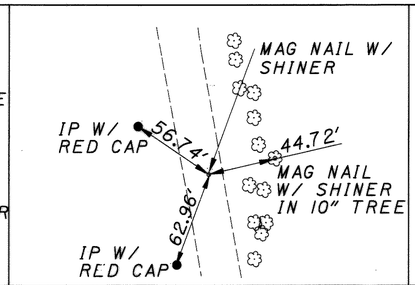
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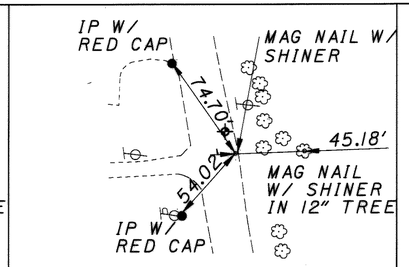
TS 820+26.06, S.R. 94



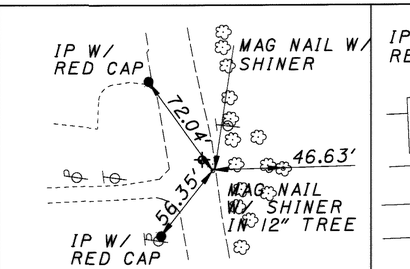
SC 821+56.06, S.R. 94



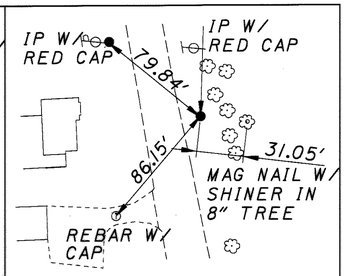
CS 822+43.80, S.R. 94



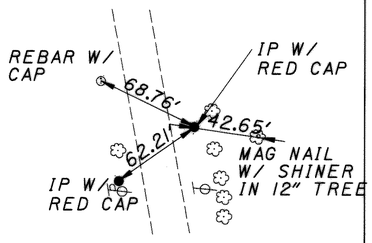
ST 823+73.80, S.R. 94



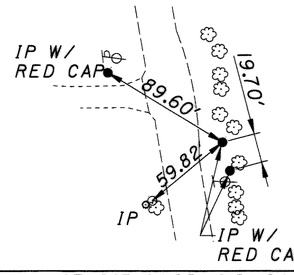
TS 823+77.17, S.R. 94



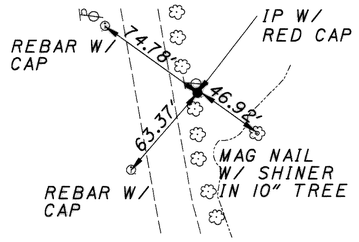
SC 825+07.19, S.R. 94



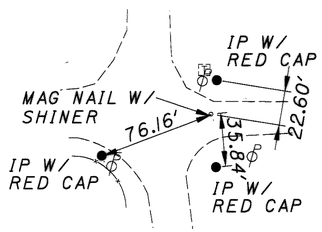
CS 825+94.93, S.R. 94



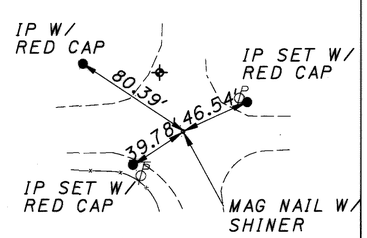
ST 827+24.93, S.R. 94



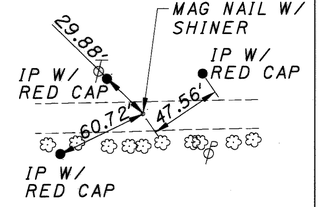
PC 831+49.25, S.R. 94



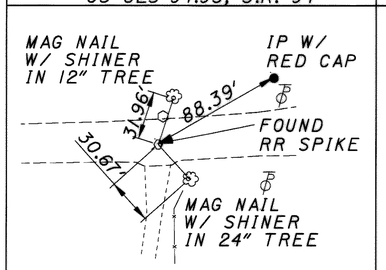
POC S.R. 94/S.R. 3 INTERSECTION



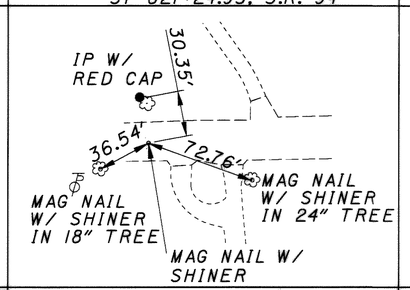
PI 1133+73.07, S.R.3 & LEDGE RD.



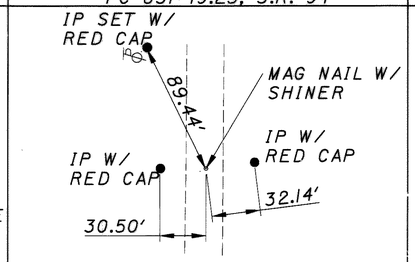
1140+00.00, LEDGE ROAD



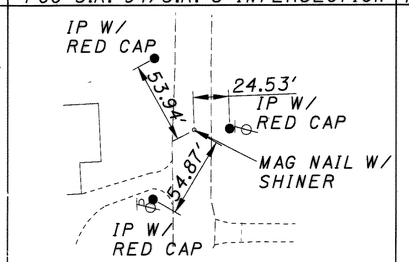
1041+15.67 BK/1128+09.64 AH, S.R. 3



1035+00.00, S.R. 3



PT 842+14.11 BK/1051+33.15 AH, S.R. 94



1055+00.00, S.R. 94

CALCULATED BBD
CHECKED JDP

CENTERLINE REFERENCE POINTS

MED-94-15.82

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CALCULATED BBD CHECKED JJP

GENERAL NOTES

ROUNDING

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

UTILITIES

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

ADELPHIA COMMUNICATIONS
1100 EAST 222nd STREET
EUCLID, OHIO 44117
PHONE: 216-663-4004

BELDEN & BLAKE
5742 STATE ROUTE 5
RAVENNA, OHIO 44266
PHONE: 330-297-1660

COLUMBIA GAS OF OHIO INC.
ATTN: DAMAGE PROTECTION
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OHIO 44130
PHONE: 440-891-2454

OHIO EDISON
6326 LAKE AVENUE
ELYRIA, OHIO 44035-1198
PHONE: 440-326-3207

MEDINA COUNTY SANITARY DEPT.
791 W. SMITH ROAD
MEDINA, OHIO 44258
PHONE: 330-723-9585

VERIZON
6223 NORWALK ROAD
MEDINA, OHIO 44256
PHONE: 330-722-9591

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONTINGENCY QUANTITIES

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

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

STREAM CHANNEL EXCAVATION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEANOUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE 2002 CONSTRUCTION AND MATERIALS SPECIFICATIONS. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

WETLANDS

THE CONTRACTOR SHALL NOT USE THE WETLANDS DELINEATED IN THESE PLANS FOR THE STAGING OR STORAGE OF EQUIPMENT, WASTE LOCATIONS, AND/OR BORROW LOCATIONS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SEDIMENTATION INTO THE WETLANDS LOCATED OUTSIDE THE PROJECTS CONSTRUCTION LIMITS. A QUANTITY OF PERIMETER FILTER FABRIC FENCE HAS BEEN INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN TO PREVENT SEDIMENTATION INTO THE WETLANDS OUTSIDE THE PROJECT CONSTRUCTION LIMITS.

SEEDING AND MULCHING

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

659, TOPSOIL	2887 C.Y.
659, SOIL ANALYSIS TEST	2 EACH
659, COMMERCIAL FERTALIZER	3.51 TONS
659, AGRICULTURAL LIME	5.5 ACRE
659, WATER	140 M. GAL
659, INTERSEEDING	1301 S.Y.

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

STORM WATER POLLUTION PREVENTION PLAN (SWAPP) AND TEMPORARY EROSION CONTROL (TEC)

THE CONTRACTOR SHALL PREPARE A SWAPP AND CALCULATE TEC QUANTITIES ACCORDING TO SUPPLEMENTAL SPECIFICATIONS 832 AND 833. PAYMENT SHALL BE MADE UNDER THE FOLLOWING PAY ITEMS:

	LUMP	
ITEM 832 EROSION CONTROL		
ITEM 832 STORM WATER POLLUTION PREVENTION PLAN	1	EACH

EROSION CONTROL

ITEMS 601 AND 670 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS AND TURF OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE 670. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

CLEARING AND GRUBBING

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

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	124	0	124
30"	13	0	13
48"	10	0	10
60"	0	0	0

UNSUITABLE FOUNDATION SOILS

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

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

ITEM 203	EMBANKMENT	1450 CU. YDS.
ITEM 203	EXCAVATION	1450 CU. YDS.

FENCE REMOVAL

ALL FENCE LOCATED WITHIN THE RIGHT OF WAY LIMITS IS TO BE REMOVED AND THE COST ASSOCIATED WITH THE FENCE REMOVAL SHALL BE INCLUDED IN THE LUMP SUM PRICE FROM ITEM 201, CLEARING AND GRUBBING.

TREE REMOVAL RESTRICTIONS

THIS PROJECT IS WITHIN THE KNOWN SUMMER BREEDING RANGE OF THE FEDERAL ENDANGERED INDIANA BROWN BAT AND MAY IMPACT THAT SPECIES HABITAT. THE SUMMER ROOSTING AND BROOD REARING HABITAT OF THIS SPECIES IS IN LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING, OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES. TREE REMOVAL WILL ONLY BE DONE BETWEEN SEPTEMBER 16 AND APRIL 14 WHEN THIS SPECIES IS NOT USING SUCH HABITAT.

MED-94-15.82
223GNOT.DGN 04/15/03 RC

MED-94-15.82

CALCULATED BMD CHECKED JDP

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE 1 FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

603 8" CONDUIT, TYPE B 50 FT.

603 6" CONDUIT, TYPE E 200 FT.

603 6" CONDUIT, TYPE F 50 FT.

601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 5 CU. YDS.

REMOVAL OF TRAFFIC SIGNAL INSTALLATION FOR STORAGE, AS PER PLAN

THE EXISTING TRAFFIC SIGNAL LOCATED AT THE INTERSECTION OF S.R. 94 AND S.R. 3 SHALL BE REMOVED IN ACCORDANCE WITH 632.25. ALL REMOVED ITEMS SHALL BE STORED ON THE PROJECT AND STORED FOR SALVAGE BY THE OHIO DEPTARTMENT OF TRANSPORTATION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR COMPLETION OF THIS WORK:

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION FOR STORAGE, AS PER PLAN 1 EACH

CONCRETE PAVEMENT REMOVAL

THE LIMITS OF CONCRETE PAVEMENT REMOVAL SHOWN ON THE CROSS SECTIONS IS APPROXIMATE, AND SHOULD BE REMOVED IN ACCORDANCE WITH SECTION 203.04. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO ACCOUNT FOR CONCRETE PAVEMENT REMOVAL WITHIN THE CONSTRUCTION LIMITS:

ITEM 202 PAVEMENT REMOVED 9050 S.Y.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE, AND AT 25 FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

AGGREGATE DRAINS SHALL BE LOCATED AT THE FOLLOWING LOCATIONS:
S.R. 94 STA. 819+00 TO STA. 819+75 SPACED AT 25' (ALTERNATING SIDES)
3 AT 15 L.F. AVERAGE LENGTH = 45 FT.
S.R. 94 STA. 819+75 TO STA. 822+60 SPACED AT 25' (ALTERNATING SIDES)
12 AT 15 L.F. AVERAGE LENGTH = 180 FT.
S.R. 3 STA. 1035+75 TO STA. 1037+00 SPACED AT 25' (ALTERNATING SIDES)
5 AT 15 L.F. AVERAGE LENGTH = 75 FT.

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

605 AGGREGATE DRAINS, 300 FT.

TREATED SEPTIC CONNECTIONS

TREATED SEPTIC FLOW MAY BE DISCHARGED INTO THE HIGHWAY DRAINAGE SYSTEM PROVIDED THE OWNER HAS ACQUIRED AN OFFICIAL PERMIT FROM THE OHIO DEPARTMENT OF TRANSPORTATION AND/OR MEDINA COUNTY ENGINEER.

IN EACH CASE WHERE A PERMIT HAS BEEN ISSUED FOR MAKING A TREATED SEPTIC CONNECTION INTO A HIGHWAY DRAINAGE CONDUIT, AN INSPECTION WELL SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING DM-3.1.

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

603, 6" CONDUIT, TYPE C 50 FT.

604, INSPECTION WELL 2 EACH

REMOVAL OF EXISTING S.R.3 SLIP RAMP

THE ENTIRE SLIP RAMP PAVEMENT BETWEEN THE NEW S.R.94 AND S.R.3 PAVEMENTS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 202.05 AND REGRADED AS PER SECTION 203.04 AND ALL DISTURBED AREAS SEEDED. THE DRIVE PIPE AT STA 838+75 LT SHALL BE REMOVED AND THE EXISTING DITCH FILLED IN. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR COMPLETION OF THIS WORK.

ITEM 202 PIPE REMOVED, 24" AND UNDER 25 FT
ITEM 202 PAVEMENT REMOVED 1360 S.Y.
ITEM 203 EMBANKMENT 700 C.Y.
ITEM 659 SEEDING AND MULCHING 1500 S.Y.

EARTHWORK QUANTITY ADJUSTMENTS

THE EARTHWORK QUANTITIES SHOWN ON THE CROSS SECTIONS ARE CALCULATED WITHOUT ACCOUNTING FOR EARTHWORK THAT WILL BE CONSTRUCTED DURING THE REMOVAL OF CONCRETE PAVEMENT. THE FOLLOWING QUANTITY ADJUSTMENTS ARE CARRIED TO THE GENERAL SUMMARY TO ACCOUNT FOR EARTHWORK THAT WILL BE CONSTRUCTED DURING THE CONCRETE PAVEMENT REMOVAL.

ITEM 203 EMBANKMENT 1100 C.Y.
ITEM 203 EXCAVATION -2800 C.Y.

GENERAL NOTES

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MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 85.

ITEM 204 - PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, SHEET 66, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4" BY 4" SQUARE OR 4½" DIAMETER ROUND, AND CONFORM TO 710.14.

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

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

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

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

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

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

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

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

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

ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE	4 EACH

WELL OUTLET RELOCATION

RELOCATE THE OUTLET OF THE WELL AT SECTION 829+50 RT. TO THE 66" CONDUIT AS PER STANDARD DRAWING DM-1.1. ENCASE THE CONNECTION BETWEEN THE 6" UNCLASSIFIED UNDERDRAINS FOR SPRINGS AND THE 66" CONDUIT IN CONCRETE. PAYMENT FOR THE CONCRETE ENCASEMENT WILL BE INCLUDED IN THE COST FOR THE 6" UNCLASSIFIED UNDERDRAINS FOR SPRINGS. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR COMPLETION OF THIS WORK:

605, AGGREGATE DRAINS FOR SPRINGS	16 FT.
605, UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS	16 FT.

ITEM 642 - STOP LINE, TYPE 1, AS PER PLAN

THE PERMANENT STOP LINE MARKINGS AS INDICATED BY REFERENCE NO'S. 1-SL & 2-SL ON SHEET NO. 81 IN THIS PLAN SHALL HAVE AN APPLICATION RATE AS PER TABLE 614.11-1.

PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE BID PER LIN. FT. FOR ITEM 642, STOP LINE, TYPE 1, AS PER PLAN COMPLETE IN PLACE.

CALCULATED BBD
CHECKED JDP

GENERAL NOTES

MED-94-15.82

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ITEM 614 - MAINTAINING TRAFFIC

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON STATE ROUTES 3 AND 94 AND LEDGE ROAD, EXCEPT FOR A PERIOD NOT TO EXCEED 180 CONSECUTIVE CALENDAR DAYS, THROUGH TRAFFIC WILL BE DETOURED AS SHOWN ON SHEETS 13 AND 15.

THE 180 CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AS AN ITERIM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 180 CONSECUTIVE CALENDAR DAYS THAT THE ROADWAYS REMAIN CLOSED TO TRAFFIC, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 CONSTRUCTION ENGINEER IN WRITING A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE ANTICIPATED DATE FOR CLOSING THE ROADS. THE CONTRACTOR WILL PROVIDE, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE THE DETOUR SIGNING AS DETAILED ON SHEET NO. **15**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE GATES AND BARRICADES AT THE APPROXIMATE WORK LIMITS OF THE PROJECT AND THE ADVANCE WARNING SIGNS AS SHOWN ON STANDARD ONSTRUCTION DRAWING MT-101.60M.

LOCAL TRAFFIC TO ALL PROPERTIES WITHIN THE PROJECT WORK LIMITS SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO LOCAL PROPERTIES SHALL BE THROUGH THE USE OF EXISTING, PROPOSED OR TEMPORARY PAVEMENTS USING THE QUANTITIES LISTED BELOW.

NOTICE OF CLOSURE SIGNS, AS DETAILED ON THIS SHEET, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE OF EACH ROAD AND ROUTE TO BE CLOSED.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

- NORTH AND SOUTH OF THE WORK AREAS ON STATE ROUTE 94
  EAST OF THE WORK AREA ON LEDGE ROAD
- WEST OF THE WORK AREA ON STATE ROUTE 3

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

TRAFFIC CONTROL GENERAL

THE INSTALLATION, MAINTENANCE AND OPERATION OF TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE OMUTCD AND AS SPECIFIED PER ITEM 614.03, TRAFFIC CONTROL GENERAL. THE APPROPRIATE PERMANENT AND/OR TEMPORARY MARKINGS SHALL BE IN PLACE PRIOR TO CONSTRUCTION BEING OPENED TO TRAFFIC.

THE STANDARD DEVICE FOR CLOSING ANY LANE(S) TO TRAFFIC SHALL BE PROPERLY WEIGHTED AND REFLECTORIZED PLASTIC DRUMS. DRUMS SHALL BE CONSTRUCTED, REFLECTORIZED, AND USED IN ACCORDANCE WITH ITEM 614.03 AND THE OMUTCD. DRUMS SHALL BE SPACED AT A MAXIMUM INTERVAL OF 60 FEET CENTER TO CENTER UNLESS SHOWN OTHERWISE IN THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ADJUST THE SPACING ON ALL DRUMS AS DIRECTED BY THE ENGINEER TO ALLOW ACCESS TO CONSTRUCTION WORK AREAS WHILE MAINTAINING SAFETY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND ADEQUATE TRAFFIC CONTROL AT ALL TIMES.

CONSTRUCTION ACCESS TO DRIVES AND APPROACHES

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC TO DRIVES AND APPROACHES. ALL DRIVES SHALL BE PROVIDED ACCESS PER 614.02(a).

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	20 CU. YD.
ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE C	100 CU. YD.
ITEM 616 - WATER	2 M.GAL.
ITEM 616 - CALCIUM CHLORIDE	2 TON

DUST CONTROL

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

616, WATER	101 M. GAL

TEMPORARY WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE PAVEMENT MARKINGS AS PER THE REQUIREMENTS OF 614.10:

ITEM 614, WORK ZONE CENTER LINE CLASS II 0.82 MILE

THE TEMPORARY MARKINGS WILL BE NON-PERFORMED IF THE PERMAMENT MARKING ARE IN PLACE PRIOR TO OPENING THE ROAD TO THRU TRAFFIC.

DESIGNATED LOCAL MAINTENANCE ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL MAINTENANCE ROUTE." DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL MAINTENANCE ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL MAINTENANCE ROUTE.

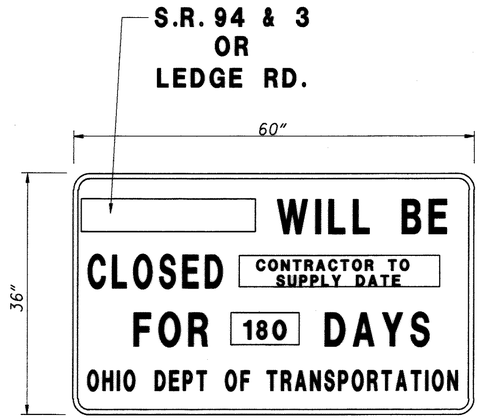
253, PAVEMENT REPAIR (ESTIMATED AT 6" DEPTH)	250 CU. YD.
448, ASPHALT CONCRETE, SURFACE COURSE, TYPE I, PG 64-22	32 CU. YD.
407, TACK COAT.	70 GAL.
614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	200 CU. YD.
617, COMPACTED AGGREGATE, TYPE A	100 CU. YD.
617, WATER	5 M. GAL.
642, CENTER LINE, TYPE 2	2 MILE

MED-3-17.82 (PART 1) AND MED-94-15.82 (PART 2)

CONSTRUCTION FOR THE ABOVE SECTIONS OF ROADWAY SHALL BE COMPLETED WITHIN ONE MAXIMUM 180 DAY CLOSURE TIME. THE 180 DAY ALLOWABLE CLOSURE TIME SPECIFIED IN THE MAINTENANCE OF TRAFFIC NOTES FOR EACH OF THE PARTS OF THIS PROJECT IS INTENDED TO REFER TO THE SAME 180 DAY CONSECUTIVE CALENDAR DAY PERIOD OF TIME. ALL DETOURS SHALL BE PLACED INTO EFFECT AND REMOVED SIMULTANEOUSLY.

NOTIFICATION OF PROPERTY OWNERS WITH THE CONSTRUCTION LIMITS

A MINIMUM OF 48 HOURS PRIOR TO THE TIME THE ROAD IS CLOSED TO TRAFFIC, THE CONTRACTOR SHALL NOTIFY EACH RESIDENCE OF THE CLOSURE AND FURNISH, IN WRITING, HOW ACCESS TO THEIR PROPERTY WILL BE MAINTAINED DURING CONSTRUCTION.



OC-60B

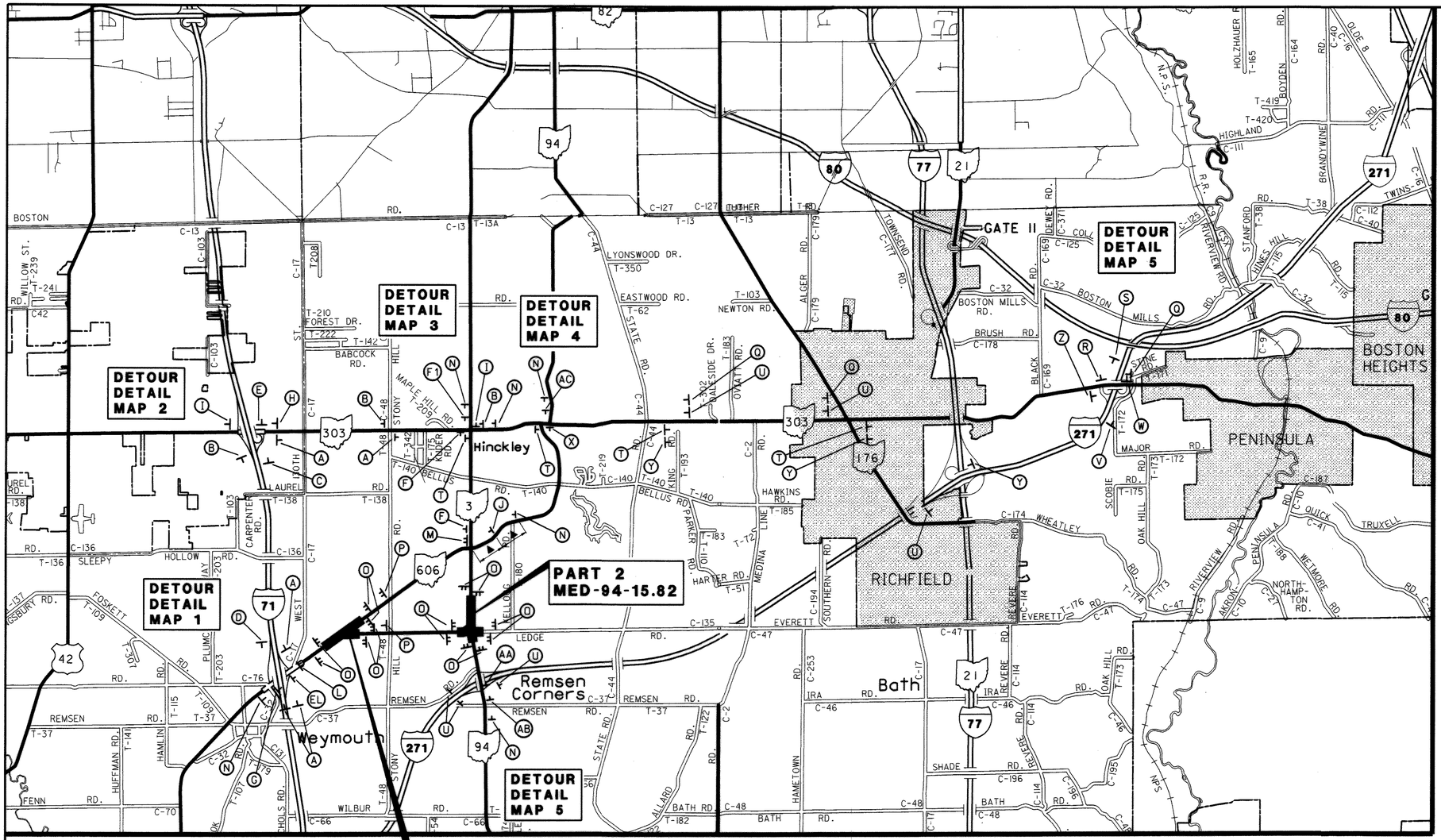
CULVERT CONSTRUCTION

THE CONTRACTOR SHALL NOT CONSTRUCT THE CULVERT CROSSINGS CONCURRENTLY. ANY TRENCH OR UNATTENDED DROP OFF SHALL BE PROTECTED WITH THE USE OF GATES AND BARRICADES OR AS DIRECTED BY THE ENGINEER.

CALCULATED BBD CHECKED JDP

MAINTENANCE OF TRAFFIC GENERAL NOTES

MED-94-15.82



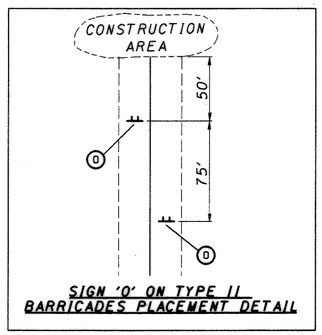
LEGEND

PORTION TO BE IMPROVED

▲ 500'

DETOUR ROUTES

	FROM	ALONG	TO
S.R. 3	S.R. 3 @ I.R. 71	I.R. 71	S.R. 303
	S.R. 303 @ I.R. 71	S.R. 303	S.R. 3
S.R. 606 NORTHBOUND	S.R. 3 @ I.R. 71	I.R. 71	S.R. 303
	S.R. 303 @ I.R. 71	S.R. 303	S.R. 3
S.R. 94	S.R. 94 @ I.R. 271	I.R. 271	S.R. 303
	S.R. 303 @ I.R. 271	S.R. 303	S.R. 94
TO I.R. 271 NORTH	S.R. 303 @ S.R. 94	S.R. 303	I.R. 271
TO I.R. 71 NORTH	I.R. 271 @ S.R. 303	S.R. 303	I.R. 71



SIGN 'O' ON TYPE II BARRICADES PLACEMENT DETAIL

NOTE: THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND REMOVE THE SIGNING. PAYMENT FOR ALL MATERIAL, LABOR, AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

(L) ON TYPE III BARRICADES — ROAD CLOSED * MILES AHEAD LOCAL TRAFFIC ONLY — R-76A — DETOUR — OC-14L-48

(M) ON TYPE III BARRICADES — ROAD CLOSED * MILES AHEAD LOCAL TRAFFIC ONLY — R-76A — DETOUR — OC-14R-48

(N) DETOUR AHEAD — OW-127-36

(O) ON TYPE III BARRICADES — ROAD CLOSED — R-75-48

(P) ON TYPE III BARRICADES — ROAD CLOSED * MILES AHEAD LOCAL TRAFFIC ONLY

FOR INFORMATIONAL PURPOSES ONLY. PAYMENT FOR SIGNING DETOUR ROUTE INCLUDED IN PART 1 ITEM 614 - MAINTAINING TRAFFIC

(A) DETOUR OM-23 NORTH M-37-24 — 3 M-2-24-2 — 606 M-2-24-3 — M-26-21

(B) DETOUR OM-23 SOUTH M-38-24 — 3 M-2-24-2 — M-26-21

(C) DETOUR OM-23 NORTH M-37-24 — 3 M-2-24-2 — 606 M-2-24-3 — M-27-21

(D) DETOUR OM-23 SOUTH M-38-24 — 3 M-2-24-2 — M-27-21

(EL) DETOUR OM-23 NORTH M-37-24 — 3 M-2-24-2 — 606 M-2-24-3 — M-24L-21

(ER) DETOUR OM-23 NORTH M-37-24 — 3 M-2-24-2 — 606 M-2-24-3 — M-24R-21

(F) DETOUR OM-23 SOUTH M-38-24 — 3 M-2-24-2 — M-24R-21

(F1) DETOUR OM-23 SOUTH M-38-24 — 3 M-2-24-2 — M-19-21

(G) DETOUR OM-23 NORTH M-37-24 — 3 M-2-24-2 — 606 M-2-24-3 — M-21-21

(H) DETOUR OM-23 SOUTH M-38-24 — 3 M-2-24-2 — M-21-21

(I) DETOUR OM-23 SOUTH M-38-24 — 3 M-2-24-2 — M-24L-21

(J) DETOUR OM-23 NORTH M-37-24 — 606 M-2-24-3 — M-19-21

(K) DETOUR OM-23 NORTH M-37-24 — 606 M-2-24-3 — M-24R-21

(Q) TO IM-8-24 NORTH IM-37-24 — INTERSTATE 71 M-5-24-2 — M-26-21

(R) TO IM-8-24 NORTH IM-37-24 — INTERSTATE 71 M-5-24-2 — M-24L-21

(S) TO IM-8-24 NORTH IM-37-24 — INTERSTATE 71 M-5-24-2 — M-27-21

(T) TO IM-8-24 NORTH IM-37-24 — INTERSTATE 271 M-5-24-3 — IM-26-21

(U) DETOUR OM-23 NORTH M-37-24 — 94 M-2-24-2 — M-26-21

(V) DETOUR OM-23 NORTH M-37-24 — 94 M-2-24-2 — M-27-21

(W) DETOUR OM-23 NORTH M-37-24 — 94 M-2-24-2 — M-24L-21

(X) DETOUR OM-23 SOUTH M-38-24 — 94 M-2-24-2 — M-24L-21

(Y) DETOUR OM-23 SOUTH M-38-24 — 94 M-2-24-2 — M-26-21

(Z) DETOUR OM-23 SOUTH M-38-24 — 94 M-2-24-2 — M-24R-21

(AA) DETOUR OM-23 94 M-2-24-2 — M-24R-21

(AB) DETOUR OM-23 94 M-2-24-2 — M-19-21

(AC) DETOUR OM-23 94 M-2-24-2 — M-21-21

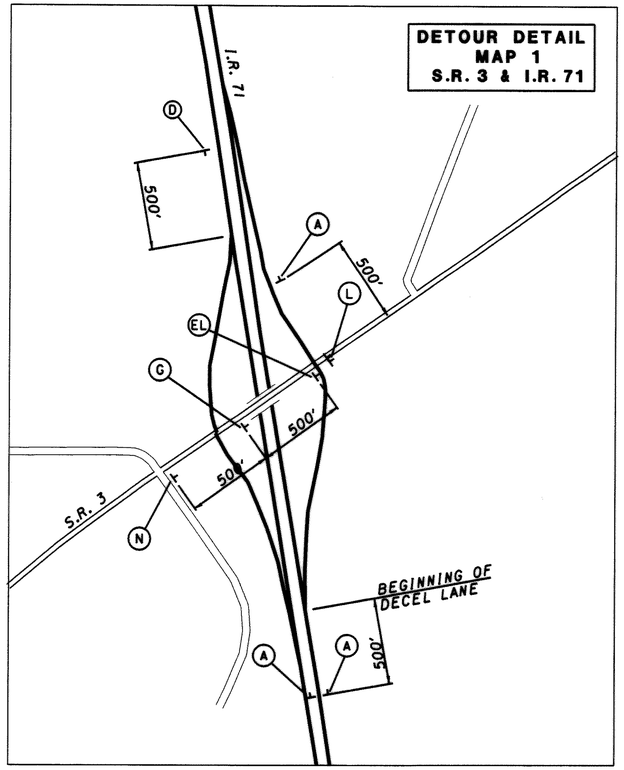
MAINTENANCE OF TRAFFIC
DETOUR SIGNING PLAN

MED-94-15.82

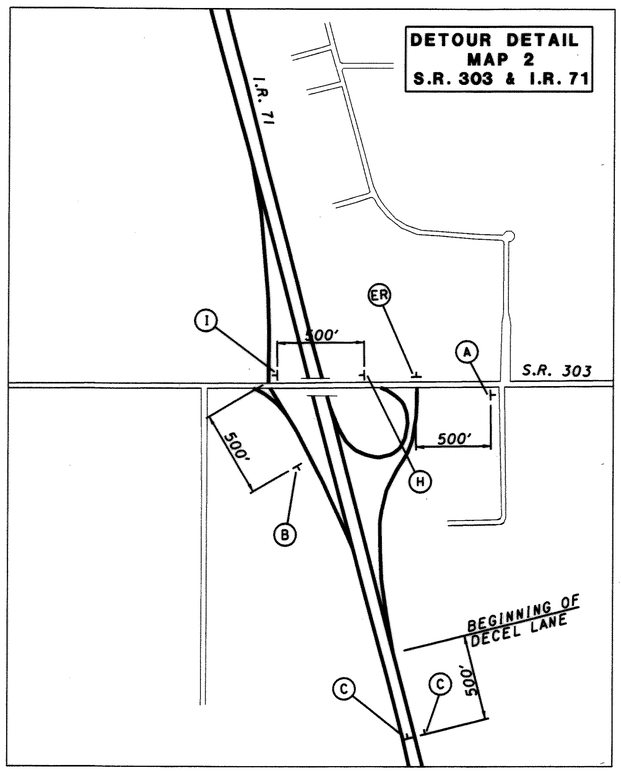
13
101

223MDI.DGN 6/14/02 TM.JDY

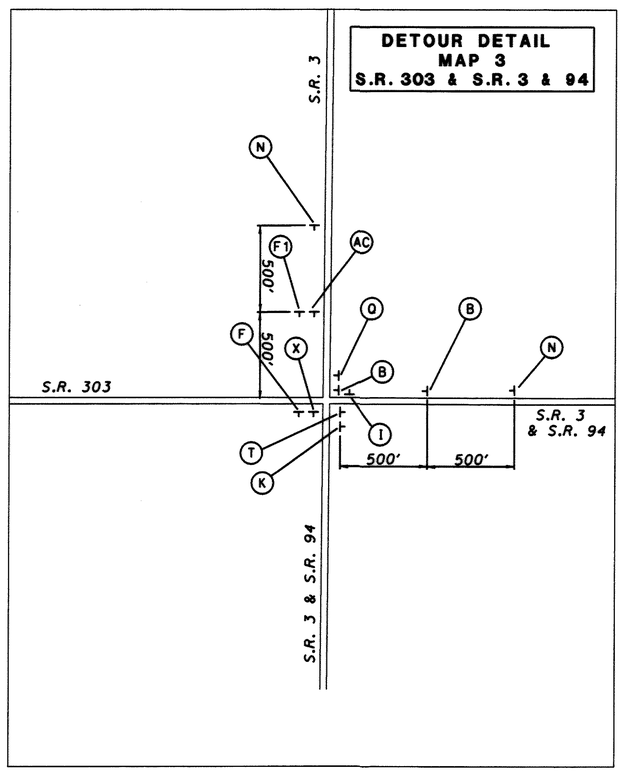
DETOUR DETAIL MAP 1
S.R. 3 & I.R. 71



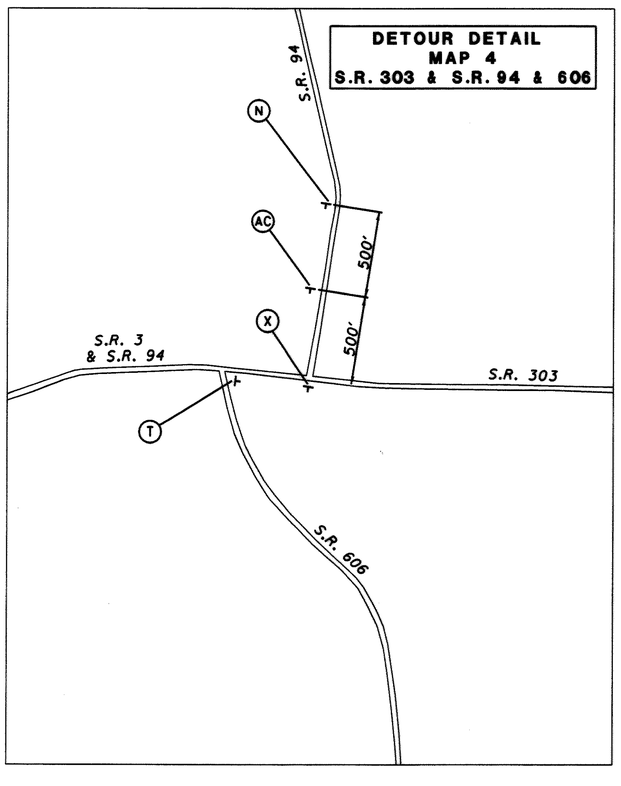
DETOUR DETAIL MAP 2
S.R. 303 & I.R. 71



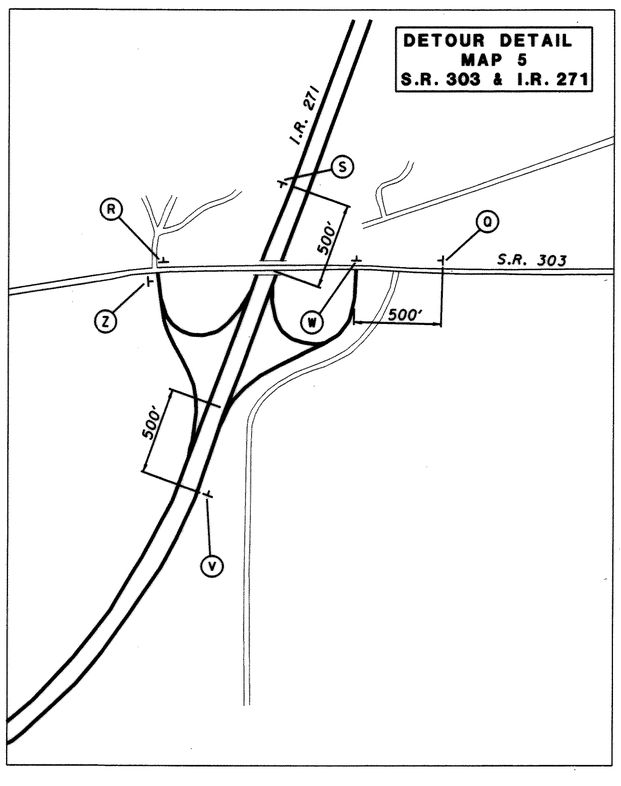
DETOUR DETAIL MAP 3
S.R. 303 & S.R. 3 & 94



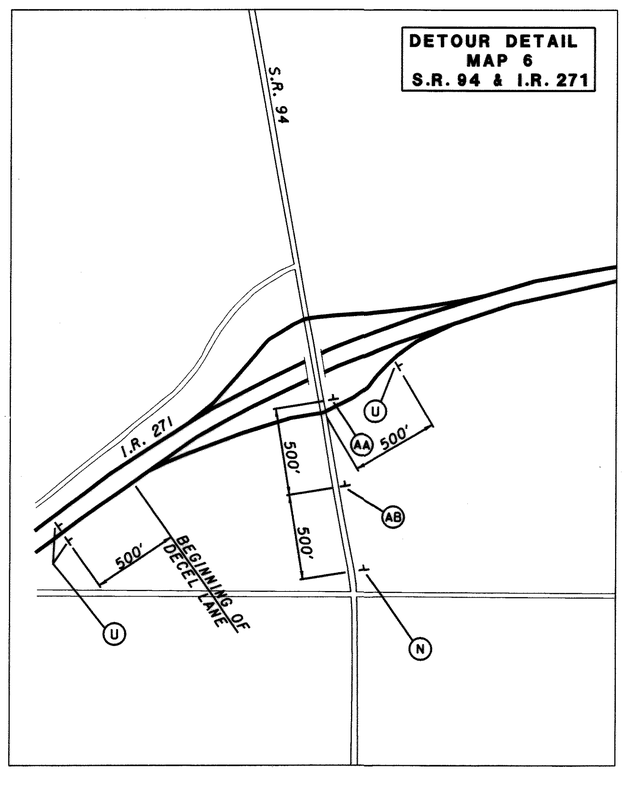
DETOUR DETAIL MAP 4
S.R. 303 & S.R. 94 & 606



DETOUR DETAIL MAP 5
S.R. 303 & I.R. 271



DETOUR DETAIL MAP 6
S.R. 94 & I.R. 271



FOR INFORMATIONAL PURPOSES ONLY.
PAYMENT FOR SIGNING DETOUR ROUTE INCLUDED IN PART 1 ITEM 614 - MAINTAINING TRAFFIC

NOTE: *FOR SIGNING LEGEND SEE SHEET NO. 13.*

0 250 500 1000
HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

MAINTENANCE OF TRAFFIC
DETOUR SIGNING PLAN

MED-94-15.82

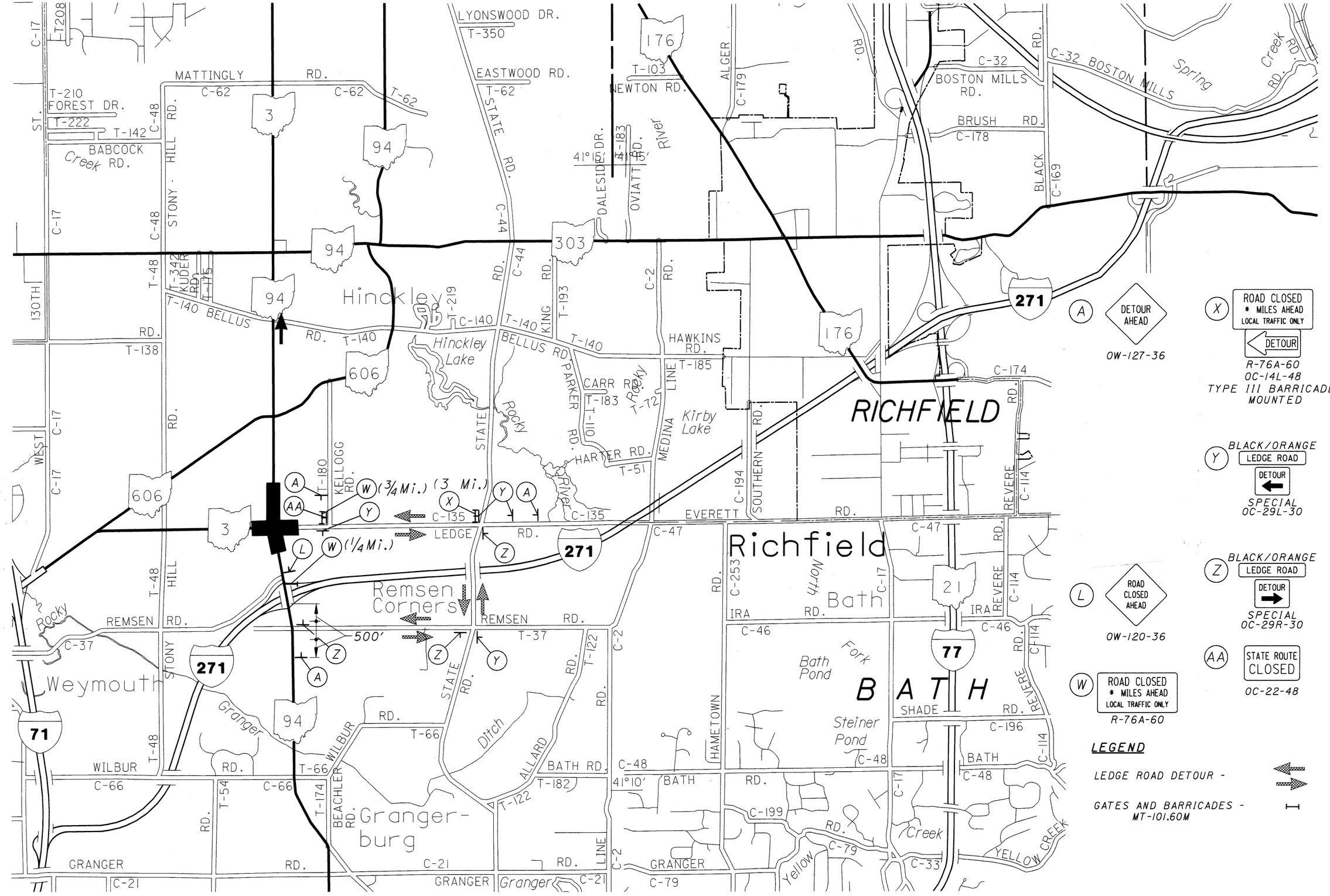
223MD2.DGN 10/1/03 SAM

MAINTENANCE OF TRAFFIC DETOUR FOR LEDGE ROAD

CALCULATED BBD CHECKED JDP

MED-94-15.82

15/101



SHEET NUMBER																		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	10	11	19	20	22A	26	27	28	29	30	31	32	33	51	52	53	54						
																						ROADWAY	
																		201	11000	LUMP		CLEARING AND GRUBBING	
									LUMP						LUMP			202	11000	LUMP		STRUCTURE REMOVED	
	12933													76				202	23000	13009	S.Y.	PAVEMENT REMOVED	
					162													202	23500	162	S.Y.	WEARING COURSE REMOVED	
						74		285	164	105		77	25	62	24	272	21	202	35100	1109	FT.	PIPE REMOVED, 24" AND UNDER	
														528				202	38000	528	FT.	GUARDRAIL REMOVED	
								1								1		202	58100	2	EACH	CATCH BASIN REMOVED	
																2		202	98100	2	EACH	REMOVAL MISC: POST	
1450	-2800			35637														203	10000	34287	C.Y.	EXCAVATION	
1450	1842			21772														203	20000	25064	C.Y.	EMBANKMENT	
					20736													204	10010	20736	S.Y.	SUBGRADE COMPACTION	
					7													204	45000	7	HOUR	PROOF ROLLING	
		4																604	40500	11	EACH	REFERENCE MONUMENT	
																		SPEC	69050100	4	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	
																						EROSION CONTROL	
								2	25						7			601	32000	27	C.Y.	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	
															7			601	32100	7	C.Y.	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
	5								70	1		2			21			601	32200	99	C.Y.	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
2																		659	00100	2	EACH	SOIL ANALYSIS TEST	
2887																		659	00300	2887	C.Y.	TOPSOIL	
	1500			26047														659	10000	27547	S.Y.	SEEDING AND MULCHING	
1301																		659	15000	1301	S.Y.	INTER-SEEDING	
3.51																		659	20000	3.51	TON	COMMERCIAL FERTILIZER	
~~5.5~~																		659	31000	5.5	ACRE	LIME	
140																		659	35000	140	M GAL.	WATER	
						92		553	508	308		126		212	171	183		670	00700	2153	S.Y.	DITCH EROSION PROTECTION	
																						DRAINAGE	
								0.2	5.0	0.4		0.5			1.5			602	20000	7.5	C.Y.	CONCRETE MASONRY	
			145															603	00100	145	FT.	4" CONDUIT, TYPE B, 707.33	
			140															603	00406	140	FT.	4" CONDUIT, TYPE F, 707.31	
	50																	603	01100	50	FT.	6" CONDUIT, TYPE C	
	200																	603	01400	200	FT.	6" CONDUIT, TYPE E	
	50																	603	01500	50	FT.	6" CONDUIT, TYPE F	
	50																	603	01800	50	FT.	8" CONDUIT, TYPE B	
								180										603	04600	180	FT.	12" CONDUIT, TYPE C	
						50	36	34			39		36	73		44	31	603	04900	343	FT.	12" CONDUIT, TYPE D	
																41		603	06400	41	FT.	15" CONDUIT, TYPE D	

CALCULATED BBD
CHECKED JDP

GENERAL SUMMARY

MED-94-15.82

SHEET NUMBER																		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	10	11	12	19	20	22A	28	29	30	31	32	33	51	52	53	54	79						
																						DRAINAGE (CONT.)	
									138									603	07400	138	FT.	18" CONDUIT, TYPE B	
									78									603	09100	78	FT.	21" CONDUIT, TYPE C	
											93							603	10200	93	FT.	24" CONDUIT, TYPE A, 706.02 1250 D-LOAD,	
																						OR 27" CONDUIT, TYPE A, 707.01 OR 707.21	
														154				603	16200	154	FT.	36" CONDUIT, TYPE A, 706.02 1500 D-LOAD,	
																						OR 42" CONUIT, TYPE A, 707.01 OR 707.21	
								158										603	25000	158	FT.	66" CONDUIT, TYPE A,707.01(0.138),707.04(0.138),	
																						707.05(0.138),707.08(0.138),707.09(0.138),	
																						707.11(0.138),707.13(0.138)	
								1	1									604	01600	2	EACH	CATCH BASIN, NO. 5	
									1									604	01604	1	EACH	CATCH BASIN, NO. 5 WITHOUT APRON	
							1											604	04500	1	EACH	CATCH BASIN, NO. 2-2B	
				7														604	36600	7	EACH	PRECAST REINFORCED CONCRETE OUTLET	
	2																	604	37000	2	EACH	INSPECTION WELL	
				11438														605	05100	11438	FT.	4" SHALLOW PIPE UNDERDRAINS, 707.31	
				2464														605	05200	2464	FT.	4" UNCLASSIFIED PIPE UNDERDRAINS, 707.31	
		16																605	13402	16	FT.	6" UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS	
	300																	605	31100	300	FT.	AGGREGATE DRAINS	
		16																605	32200	16	FT.	AGGREGATE DRAINS FOR SPRINGS	
																						PAVEMENT	
			250															253	02000	250	C.Y.	PAVEMENT REPAIR	
						4830												301	46000	4830	C.Y.	ASPHALT CONCRETE BASE, PG 64-22	
						3480												304	20000	3480	C.Y.	AGGREGATE BASE	
			70			1622												407	10000	1692.1	GAL.	TACK COAT	
						1071												407	14000	1071	GAL.	TACK COAT FOR INTERMEDIATE COURSE	
						1045												446	46050	1045	C.Y.	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22	
						745												446	47020	745	C.Y.	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22	
			32			6												448	47020	38	C.Y.	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22	
						165							42					452	10000	207	S.Y.	6" NON-REINFORCED CONCRETE PAVEMENT	
			100															617	10100	100	C.Y.	COMPACTED AGGREGATE, TYPE A	
			5															617	25000	5	M. GAL	WATER	
																						TRAFFIC CONTROL	
																		73	621	00100	73	EACH	RPM
																		188	630	02100	188	FT.	GROUND MOUNTED SUPPORT, NO. 2 POST
																		294	630	03100	294	FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
																		119	630	04100	119	FT.	GROUND MOUNTED SUPPORT, NO. 4 POST
																		298.7	630	80102	298.7	S.F.	SIGN, FLAT SHEET, TYPE G
																		69	630	84900	69	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
																		43	630	86002	43	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
																		1.64	642	00102	1.64	MILE	EDGE LINE, TYPE 2
			2															1.10	642	00302	3.10	MILE	CENTER LINE, TYPE 2
																		77	642	00501	77	FT.	STOP LINE, TYPE 1, AS PER PLAN
																		665	644	00400	665	FT.	CHANNELIZING LINE
																		796	644	00700	796	FT.	TRANSVERSE LINE
																		5	644	01300	5	EACH	LANE ARROW
																		2	644	01410	2	EACH	WORD ON PAVEMENT, 96"
																						TRAFFIC SIGNALS	
	1																		632	90103	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION FOR STORAGE, AS PER PLAN

CALCULATED BBD
CHECKED JPP

GENERAL SUMMARY

MED-94-15.82

gg02.dgn

SHEET NUMBER																		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	10	11	12	19	20	22A	28	29	30	31	32	33	51	52	53	54	79						
																						MAINTENANCE OF TRAFFIC	
			100															410	13000	100	CU.YD.	TRAFFIC COMPACTED SURFACE, TYPE C	
			220															614	13000	220	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			0.82															614	21400	0.82	MILE	WORK ZONE CENTER LINE, CLASS II	
			103															616	10000	103	M GAL	WATER	
			2															616	20000	2	TON	CALCIUM CHLORIDE	
																		614	11000	LUMP		MAINTAINING TRAFFIC	
																		623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
																		624	10000	LUMP		MOBILIZATION	

CALCULATED BBD

CHECKED JDP

GENERAL SUMMARY

MED-94-15.82

REF. NO.	STATION FROM	STATION TO	LOCATION CODE	BEGINNING ELEVATION	END ELEVATION		603 4" CONDUIT, TYPE B, 707.33 FT.	603 4" CONDUIT, TYPE F, 707.31 FT.	605 4" SHALLOW PIPE UNDERDRAINS, 707.31 (18" DEPTH) FT.	605 4" SHALLOW PIPE UNDERDRAINS, 707.31 (30" DEPTH) FT.	605 4" UNCLASSIFIED PIPE UNDERDRAINS, 707.31 FT.	604 PRECAST REINFORCED CONCRETE OUTLET EACH	FOR INFORMATION ONLY: OUTLETS INTO ANOTHER UNDERDRAINS	OUTLETS INTO CATCH BASIN	END CAP	TEE CONNECTION	WYE CONNECTION	90° ELL CONNECTION	CROSS CONNECTION	OUTLET STATION	OUTLET FLOWLINE ELEVATION	OUTLET OFFSET	OUTLETS INTO
U-1	822+60	830+60	LS	1190.77	1178.58			18	690		110	1			1	1	1			830+60	1177.68	38' LT.	PRECAST OUTLET
U-2	822+60	830+60	LL	1189.97	1177.93		11			690	110		1		1	1				830+60			U-1
U-3	822+60	830+31	RL	1188.73	1177.71		11			771			1		1	1				830+31			U-4
U-4	822+60	830+31	RS	1189.34	1178.36			18	771			1			1	1	1			830+31	1177.45	49' RT.	PRECAST OUTLET
U-5	830+60	1133+72	LS	1178.58	1189.58				468				1							830+60			U-1
U-6	830+60	1133+72	LL	1177.93	1188.93					468			1							830+60			U-5
U-7	830+31	1134+95	RL	1177.71	1188.48					505			1		1					830+31			U-8
U-8	830+31	1138+00	RS	1178.36	1189.53				461		349		1		1					830+31			U-4
U-9	1134+85	1138+00	LS	1188.61	1190.09						315		1		1					1134+75			U-13
U-10	1129+00 SR3	840+50	LS	1182.76	1201.10		8		989				1					1		1129+00			U-11
U-11	1129+00 SR3	840+50	LL	1182.12	1200.45		24			989			1			1				1129+00			U-24
U-12	1134+85	1051+90	RL	1188.34	1201.36		4			743	24		1		1			1		1134+85			U-13
U-13	1134+85	1051+90	RS	1189.16	1202.00			11	743		24			1	1	1	1			1134+85	1188.19	27' LT.	CB
U-14	840+50	1051+85	LS	1201.10	1200.06			27			216	1					1	1		1051+85	1199.06	47' LT.	PRECAST OUTLET
U-15	840+50	1051+85	LL	1200.45	1199.41		11				216		1					1		1051+85			U-14
U-16	1052+00	1055+25	LS	1202.19	1203.08			18	50		275	1			1		1	1		1052+00	1201.28	38' LT.	PRECAST OUTLET
U-17	1052+00	1055+25	LL	1201.54	1202.43		11			50	275		1		1			1		1052+00			U-16
U-18	1052+05	1055+25	RL	1201.42	1202.59		11			45	275		1		1			1		1052+05			U-19
U-19	1052+05	1055+25	RS	1202.06	1203.24			18	45		275	1			1		1	1		1052+05	1201.16	41' RT.	PRECAST OUTLET
	SR 3 AND	LEDGE RD																					
U-20	1037+00	1128+97.5	LS	1172.80	1182.71		8		504				1		1			1		1037+00			U-21
U-21	1037+00	1128+97.5	LL	1172.16	1182.07		24			504			1		1	1				1037+00			U-22
U-22	1037+00	1128+97.5	RL	1172.16	1182.07		11			504			1		1	1				1037+00			U-23
U-23	1037+00	1128+97.5	RS	1172.80	1182.71			15	504			1			1		1	1		1037+00	1171.68	35' RT.	PRECAST OUTLET
U-24	1129+00	1133+72	RL	1182.12	1188.93		11			472			1			1				1129+00			U-25
U-25	1129+00	1133+72	RS	1182.76	1189.58			15	472			1				1	1			1129+00	1181.64	35' RT.	PRECAST OUTLET
TOTALS CARRIED TO GENERAL SUMMARY							145	140	5697	5741	2464	7											

CALCULATED BBD
CHECKED JDP

UNDERDRAINS SUBSUMMARY

MED-94-15.82

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SHEET NO.	STATION FROM	STATION TO	203 EMBANKMENT CU YD	203 EXCAVATION CU YD	659 SEEDING AND MULCHING SQ YD					
34	818+00	819+50	106	137	242					
35	820+00	821+50	126	890	900					
36	822+00	823+50	0	2896	1214					
37	823+67.28	825+00	0	3767	763					
38	825+50	827+00	76	3556	1327					
39	827+50	828+50	1015	898	840					
40	829+00	830+00	2654	900	1458					
41	830+29.87	831+50	2887	235	1247					
42	832+00	833+50	1891	200	1478					
43	833+94.24	835+50	63	1870	705					
44	836+00	837+50	0	4784	1263					
45	838+00	839+00	26	2781	895					
46	839+50	841+00	31	2183	988					
47	841+50	1052+00	399	460	1038					
48	1052+50	1053+50	403	133	665					
49	1054+00	1054+65.35	33	375	401					
50	1054+00	1056+00	1	236	232					
56	1035+75	1036+00	1	103	78					
57	1036+24.74	1037+00.00	208	205	299					
58	1037+50	1039+00	6557	77	2255					
59	1039+50	1041+00	3582	182	1661					
60	1041+15.22	1129+61.21	420	437	808					
61	1130+00	1131+50	194	1724	1272					
62	1131+80.11	1133+00	0	2207	795					
63	1133+50	1135+00	1	1459	597					
64	1135+50	1137+00	1	2245	1084					
65	1137+50	1138+00	38	644	644					
TOTALS			20675	34940	24505					

SHEET NO.	STATION FROM	STATION TO	203 EMBANKMENT CU YD	203 EXCAVATION CU YD	659 SEEDING AND MULCHING SQ YD					
TOTALS RIGHT SIDE			0	0	0					
TOTALS LEFT SIDE			20675	34940	24505					
TOTALS CARRIED TO GENERAL SUMMARY			20675	34940	24505					

CALCULATED BBD
CHECKED JJP

EARTHWORK AND SEEDING SUBSUMMARY

MED-94-15.82

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P-1 STA. 819+00.00 - STA. 819+27.50, L = 27.50
SIDE = LEFT
PAVEMENT WIDTH 1 = 11.5', PAVEMENT WIDTH 2 = 12.0', AVERAGE PAVEMENT WIDTH =11.75'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(11.75 + 8) X 27.50 X (1.25/12)/27	= 2.10	C.Y.
ITEM 446 TYPE 2	(11.75 + 8) X 27.50 X (1.75/12)/27	= 2.93	C.Y.
ITEM 407 (INTERMEDIATE)	(11.75 + 8) X 27.50 / 9 X 0.05	= 3.02	GAL.
ITEM 407	(11.75 + 8) X 27.50 / 9 X 0.075	= 4.53	GAL.
ITEM 301 (8")	((11.75 + 8 + (2X4/12)) X 8/12 X 27.50 / 27	= 13.86	C.Y.
ITEM 304 (6")	((11.75 + 8 + (2X10/12)) X 6/12 X 27.50 / 27	= 10.91	C.Y.
ITEM 204 (S. COMPACTION)	(11.75 + 8) X 27.50 / 9	= 60.35	S.Y.
ITEM 204 (P. ROLLING)	60.35 / 3000	= 0.02	HOURS

P-2 STA. 819+27.50 - STA. 820+32.00, L = 104.50
SIDE = LEFT
PAVEMENT WIDTH =12.0
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(12 + 8) X 104.50 X (1.25/12)/27	= 8.06	C.Y.
ITEM 446 TYPE 2	(12 + 8) X 104.50 X (1.75/12)/27	= 11.29	C.Y.
ITEM 407 (INTERMEDIATE)	(12 + 8) X 104.50 / 9 X 0.05	= 11.61	GAL.
ITEM 407	(12 + 8) X 104.50 / 9 X 0.075	= 17.42	GAL.
ITEM 301 (8")	((12 + 8 + (2X4/12)) X 8/12 X 104.50 / 27	= 53.33	C.Y.
ITEM 304 (6")	((12 + 8 + (2X10/12)) X 6/12 X 104.50 / 27	= 41.93	C.Y.
ITEM 204 (S. COMPACTION)	(12 + 8) X 104.50 / 9	= 232.22	S.Y.
ITEM 204 (P. ROLLING)	232.22 / 3000	= 0.08	HOURS

P-3 STA. 819+00.00 - STA. 820+32.00, L = 132.00
SIDE = RIGHT
PAVEMENT WIDTH 1 = 14.4', PAVEMENT WIDTH 2 = 12.0', AVERAGE PAVEMENT WIDTH =13.20'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(13.2 + 8) X 132.00 X (1.25/12)/27	= 10.80	C.Y.
ITEM 446 TYPE 2	(13.2 + 8) X 132.00 X (1.75/12)/27	= 15.11	C.Y.
ITEM 407 (INTERMEDIATE)	(13.2 + 8) X 132.00 / 9 X 0.05	= 15.55	GAL.
ITEM 407	(13.2 + 8) X 132.00 / 9 X 0.075	= 23.32	GAL.
ITEM 301 (8")	((13.2 + 8 + (2X4/12)) X 8/12 X 132.00 / 27	= 71.27	C.Y.
ITEM 304 (6")	((13.2 + 8 + (2X10/12)) X 6/12 X 132.00 / 27	= 55.90	C.Y.
ITEM 204 (S. COMPACTION)	(13.2 + 8) X 132.00 / 9	= 310.93	S.Y.
ITEM 204 (P. ROLLING)	310.93 / 3000	= 0.10	HOURS

P-4 STA. 820+32.00 - STA. 834+52.09, L = 1420.09

PAVEMENT WIDTH =24.0
SHOULDER WIDTH = 16.0

ITEM 446 TYPE 1	(24 + 16) X 1420.09 X (1.25/12)/27	= 219.15	C.Y.
ITEM 446 TYPE 2	(24 + 16) X 1420.09 X (1.75/12)/27	= 306.81	C.Y.
ITEM 407 (INTERMEDIATE)	(24 + 16) X 1420.09 / 9 X 0.05	= 315.58	GAL.
ITEM 407	(24 + 16) X 1420.09 / 9 X 0.075	= 473.36	GAL.
ITEM 301 (8")	((24 + 16 + (2X4/12)) X 8/12 X 1420.09 / 27	= 1425.93	C.Y.
ITEM 304 (6")	((24 + 16 + (2X10/12)) X 6/12 X 1420.09 / 27	= 1095.75	C.Y.
ITEM 204 (S. COMPACTION)	(24 + 16) X 1420.09 / 9	= 6311.51	S.Y.
ITEM 204 (P. ROLLING)	6311.51 / 3000	= 2.10	HOURS

P-5 STA. 834+52.09 - STA. 835+90.92, L = 1183I.39

AREA FROM CADD = 1183I.4 S.F.
4 INCH STEP OUT AREA FROM CADD = 11931.1 S.F.
10 INCH STEP OUT AREA FROM CADD = 12080.9 S.F.

ITEM 446 TYPE 1	1183I.39 X (1.25/12)/27	= 45.65	C.Y.
ITEM 446 TYPE 2	1183I.39 X (1.75/12)/27	= 63.90	C.Y.
ITEM 407 (INTERMEDIATE)	1183I.39 / 9 X 0.05	= 65.73	GAL.
ITEM 407	1183I.39 / 9 X 0.075	= 98.59	GAL.
ITEM 301 (8")	11931.10 X 8/12 / 27	= 294.60	C.Y.
ITEM 304 (6")	12080.88 X 6/12 / 27	= 223.72	C.Y.
ITEM 204 (S. COMPACTION)	1183I.39 / 9	= 1314.60	S.Y.
ITEM 204 (P. ROLLING)	1314.6 / 3000	= 0.44	HOURS

P-6 STA. 835+90.92 - STA. 842+14.11, L = 623.19

PAVEMENT WIDTH =24.0
SHOULDER WIDTH =16.0

ITEM 446 TYPE 1	(24 + 16) X 623.19 X (1.25/12)/27	= 96.17	C.Y.
ITEM 446 TYPE 2	(24 + 16) X 623.19 X (1.75/12)/27	= 134.64	C.Y.
ITEM 407 (INTERMEDIATE)	(24 + 16) X 623.19 / 9 X 0.05	= 138.49	GAL.
ITEM 407	(24 + 16) X 623.19 / 9 X 0.075	= 207.73	GAL.
ITEM 301 (8")	((24 + 16 + (2X4/12)) X 8/12 X 623.19 / 27	= 625.75	C.Y.
ITEM 304 (6")	((24 + 16 + (2X10/12)) X 6/12 X 623.19 / 27	= 480.86	C.Y.
ITEM 204 (S. COMPACTION)	(24 + 16) X 623.19 / 9	= 2769.73	S.Y.
ITEM 204 (P. ROLLING)	2769.73 / 3000	= 0.92	HOURS

P-7 STA. 1051+33.15 - STA. 1054+42.50, L = 309.35

PAVEMENT WIDTH =24.0
SHOULDER WIDTH =16.0

ITEM 446 TYPE 1	(24 + 16) X 309.35 X (1.25/12)/27	= 47.74	C.Y.
ITEM 446 TYPE 2	(24 + 16) X 309.35 X (1.75/12)/27	= 66.83	C.Y.
ITEM 407 (INTERMEDIATE)	(24 + 16) X 309.35 / 9 X 0.05	= 68.74	GAL.
ITEM 407	(24 + 16) X 309.35 / 9 X 0.075	= 103.12	GAL.
ITEM 301 (8")	((24 + 16 + (2X4/12)) X 8/12 X 309.35 / 27	= 310.62	C.Y.
ITEM 304 (6")	((24 + 16 + (2X10/12)) X 6/12 X 309.35 / 27	= 238.70	C.Y.
ITEM 204 (S. COMPACTION)	(24 + 16) X 309.35 / 9	= 1374.89	S.Y.
ITEM 204 (P. ROLLING)	1374.89 / 3000	= 0.46	HOURS

P-8 STA. 1054+42.50 - STA. 1055+25.00, L = 82.50
SIDE = LEFT
PAVEMENT WIDTH 1 = 12.0', PAVEMENT WIDTH 2 = 13.5', AVERAGE PAVEMENT WIDTH =12.75'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(12.75 + 8) X 82.50 X (1.25/12)/27	= 6.60	C.Y.
ITEM 446 TYPE 2	(12.75 + 8) X 82.50 X (1.75/12)/27	= 9.25	C.Y.
ITEM 407 (INTERMEDIATE)	(12.75 + 8) X 82.50 / 9 X 0.05	= 9.51	GAL.
ITEM 407	(12.75 + 8) X 82.50 / 9 X 0.075	= 14.27	GAL.
ITEM 301 (8")	((12.75 + 8 + (2X4/12)) X 8/12 X 82.50 / 27	= 43.63	C.Y.
ITEM 304 (6")	((12.75 + 8 + (2X10/12)) X 6/12 X 82.50 / 27	= 34.25	C.Y.
ITEM 204 (S. COMPACTION)	(12.75 + 8) X 82.50 / 9	= 190.21	S.Y.
ITEM 204 (P. ROLLING)	190.21 / 3000	= 0.06	HOURS

P-9 STA. 1054+42.50 - STA. 1054+70.00, L = 27.50
SIDE = RIGHT
PAVEMENT WIDTH =12.0
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(12 + 8) X 27.50 X (1.25/12)/27	= 2.12	C.Y.
ITEM 446 TYPE 2	(12 + 8) X 27.50 X (1.75/12)/27	= 2.97	C.Y.
ITEM 407 (INTERMEDIATE)	(12 + 8) X 27.50 / 9 X 0.05	= 3.06	GAL.
ITEM 407	(12 + 8) X 27.50 / 9 X 0.075	= 4.58	GAL.
ITEM 301 (8")	((12 + 8 + (2X4/12)) X 8/12 X 27.50 / 27	= 14.03	C.Y.
ITEM 304 (6")	((12 + 8 + (2X10/12)) X 6/12 X 27.50 / 27	= 11.03	C.Y.
ITEM 204 (S. COMPACTION)	(12 + 8) X 27.50 / 9	= 61.11	S.Y.
ITEM 204 (P. ROLLING)	61.11 / 3000	= 0.02	HOURS

P-10 STA. 1054+70.00 - STA. 1055+25.00, L = 55.00
SIDE = RIGHT
PAVEMENT WIDTH 1 = 12.0', PAVEMENT WIDTH 2 = 11.0', AVERAGE PAVEMENT WIDTH =11.50'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(11.5 + 8) X 55.00 X (1.25/12)/27	= 4.14	C.Y.
ITEM 446 TYPE 2	(11.5 + 8) X 55.00 X (1.75/12)/27	= 5.79	C.Y.
ITEM 407 (INTERMEDIATE)	(11.5 + 8) X 55.00 / 9 X 0.05	= 5.96	GAL.
ITEM 407	(11.5 + 8) X 55.00 / 9 X 0.075	= 8.94	GAL.
ITEM 301 (8")	((11.5 + 8 + (2X4/12)) X 8/12 X 55.00 / 27	= 27.39	C.Y.
ITEM 304 (6")	((11.5 + 8 + (2X10/12)) X 6/12 X 55.00 / 27	= 21.56	C.Y.
ITEM 204 (S. COMPACTION)	(11.5 + 8) X 55.00 / 9	= 119.17	S.Y.
ITEM 204 (P. ROLLING)	119.17 / 3000	= 0.04	HOURS

P-11 STA. 1035+75.00 - STA. 1037+18.00, L = 143.00
SIDE = LEFT
PAVEMENT WIDTH 1 = 14.6', PAVEMENT WIDTH 2 = 12.0', AVERAGE PAVEMENT WIDTH =13.30'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(13.3 + 8) X 143.00 X (1.25/12)/27	= 11.75	C.Y.
ITEM 446 TYPE 2	(13.3 + 8) X 143.00 X (1.75/12)/27	= 16.45	C.Y.
ITEM 407 (INTERMEDIATE)	(13.3 + 8) X 143.00 / 9 X 0.05	= 16.92	GAL.
ITEM 407	(13.3 + 8) X 143.00 / 9 X 0.075	= 25.38	GAL.
ITEM 301 (8")	((13.3 + 8 + (2X4/12)) X 8/12 X 143.00 / 27	= 77.56	C.Y.
ITEM 304 (6")	((13.3 + 8 + (2X10/12)) X 6/12 X 143.00 / 27	= 60.82	C.Y.
ITEM 204 (S. COMPACTION)	(13.3 + 8) X 143.00 / 9	= 338.43	S.Y.
ITEM 204 (P. ROLLING)	338.43 / 3000	= 0.11	HOURS

P-12 STA. 1035+75.00 - STA. 1035+80.50, L = 5.50
SIDE = RIGHT
PAVEMENT WIDTH 1 = 11.9', PAVEMENT WIDTH 2 = 12.0', AVERAGE PAVEMENT WIDTH =11.95'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(11.95 + 8) X 5.50 X (1.25/12)/27	= 0.42	C.Y.
ITEM 446 TYPE 2	(11.95 + 8) X 5.50 X (1.75/12)/27	= 0.59	C.Y.
ITEM 407 (INTERMEDIATE)	(11.95 + 8) X 5.50 / 9 X 0.05	= 0.61	GAL.
ITEM 407	(11.95 + 8) X 5.50 / 9 X 0.075	= 0.91	GAL.
ITEM 301 (8")	((11.95 + 8 + (2X4/12)) X 8/12 X 5.50 / 27	= 2.80	C.Y.
ITEM 304 (6")	((11.95 + 8 + (2X10/12)) X 6/12 X 5.50 / 27	= 2.20	C.Y.
ITEM 204 (S. COMPACTION)	(11.95 + 8) X 5.50 / 9	= 12.19	S.Y.
ITEM 204 (P. ROLLING)	12.19 / 3000	= 0.00	HOURS

CALCULATED BBD
CHECKED JDP

PAVEMENT CALCULATIONS

MED-94-15.82

21/101

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P-13 STA. 1035+80.50 - STA. 1037+18.00, L = 137.50
SIDE = RIGHT
PAVEMENT WIDTH =12.0
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(12 + 8) X 137.50 X (1.25/12)/27	= 10.61	C.Y.
ITEM 446 TYPE 2	(12 + 8) X 137.50 X (1.75/12)/27	= 14.85	C.Y.
ITEM 407 (INTERMEDIATE)	(12 + 8) X 137.50 / 9 X 0.05	= 15.28	GAL.
ITEM 407	(12 + 8) X 137.50 / 9 X 0.075	= 22.92	GAL.
ITEM 301 (8")	((12 + 8 + (2X4/12)) X 8/12 X 137.50 / 27	= 70.16	C.Y.
ITEM 304 (6")	((12 + 8 + (2X10/12)) X 6/12 X 137.50 / 27	= 55.17	C.Y.
ITEM 204 (S. COMPACTION)	(12 + 8) X 137.50 / 9	= 305.56	S.Y.
ITEM 204 (P. ROLLING)	305.56 / 3000	= 0.10	HOURS

P-14 STA. 1037+18.00 - STA. 1041+15.67, L = 397.67

PAVEMENT WIDTH =24.0
SHOULDER WIDTH =16.0

ITEM 446 TYPE 1	(24 + 16) X 397.67 X (1.25/12)/27	= 61.37	C.Y.
ITEM 446 TYPE 2	(24 + 16) X 397.67 X (1.75/12)/27	= 85.92	C.Y.
ITEM 407 (INTERMEDIATE)	(24 + 16) X 397.67 / 9 X 0.05	= 88.37	GAL.
ITEM 407	(24 + 16) X 397.67 / 9 X 0.075	= 132.56	GAL.
ITEM 301 (8")	((24 + 16 + (2X4/12)) X 8/12 X 397.67 / 27	= 399.31	C.Y.
ITEM 304 (6")	((24 + 16 + (2X10/12)) X 6/12 X 397.67 / 27	= 306.84	C.Y.
ITEM 204 (S. COMPACTION)	(24 + 16) X 397.67 / 9	= 1767.42	S.Y.
ITEM 204 (P. ROLLING)	1767.42 / 3000	= 0.59	HOURS

P-15 STA. 1128+09.64 - STA. 1133+50.93, L = 541.29

PAVEMENT WIDTH =24.0
SHOULDER WIDTH =16.0

ITEM 446 TYPE 1	(24 + 16) X 541.29 X (1.25/12)/27	= 83.53	C.Y.
ITEM 446 TYPE 2	(24 + 16) X 541.29 X (1.75/12)/27	= 116.95	C.Y.
ITEM 407 (INTERMEDIATE)	(24 + 16) X 541.29 / 9 X 0.05	= 120.29	GAL.
ITEM 407	(24 + 16) X 541.29 / 9 X 0.075	= 180.43	GAL.
ITEM 301 (8")	((24 + 16 + (2X4/12)) X 8/12 X 541.29 / 27	= 543.52	C.Y.
ITEM 304 (6")	((24 + 16 + (2X10/12)) X 6/12 X 541.29 / 27	= 417.66	C.Y.
ITEM 204 (S. COMPACTION)	(24 + 16) X 541.29 / 9	= 2405.73	S.Y.
ITEM 204 (P. ROLLING)	2405.73 / 3000	= 0.80	HOURS

P-16 STA. 1134+89.20 - STA. 1137+52.00, L = 262.80

PAVEMENT WIDTH =24.0
SHOULDER WIDTH =08.0

ITEM 446 TYPE 1	(24 + 8) X 262.80 X (1.25/12)/27	= 32.44	C.Y.
ITEM 446 TYPE 2	(24 + 8) X 262.80 X (1.75/12)/27	= 45.42	C.Y.
ITEM 407 (INTERMEDIATE)	(24 + 8) X 262.80 / 9 X 0.05	= 46.72	GAL.
ITEM 407	(24 + 8) X 262.80 / 9 X 0.075	= 70.08	GAL.
ITEM 301 (8")	((24 + 8 + (2X4/12)) X 8/12 X 262.80 / 27	= 211.97	C.Y.
ITEM 304 (6")	((24 + 8 + (2X10/12)) X 6/12 X 262.80 / 27	= 163.84	C.Y.
ITEM 204 (S. COMPACTION)	(24 + 8) X 262.80 / 9	= 934.40	S.Y.
ITEM 204 (P. ROLLING)	934.4 / 3000	= 0.31	HOURS

P-17 STA. 1137+52.00 - STA. 1138+00.00, L = 48.00
PAVEMENT WIDTH 1 = 12.0', PAVEMENT WIDTH 2 = 8.8'
AVERAGE PAVEMENT WIDTH =10.4'
SHOULDER WIDTH = 4.0

ITEM 446 TYPE 1	(10.4 + 4) X 48.00 X (1.25/12)/27	= 2.67	C.Y.
ITEM 446 TYPE 2	(10.4 + 4) X 48.00 X (1.75/12)/27	= 3.73	C.Y.
ITEM 407 (INTERMEDIATE)	(10.4 + 4) X 48.00 / 9 X 0.05	= 3.84	GAL.
ITEM 407	(10.4 + 4) X 48.00 / 9 X 0.075	= 5.76	GAL.
ITEM 301 (8")	((10.4 + 4 + (2X4/12)) X 8/12 X 48.00 / 27	= 17.86	C.Y.
ITEM 304 (6")	((10.4 + 4 + (2X10/12)) X 6/12 X 48.00 / 27	= 14.28	C.Y.
ITEM 204 (S. COMPACTION)	(10.4 + 4) X 48.00 / 9	= 76.80	S.Y.
ITEM 204 (P. ROLLING)	76.8 / 3000	= 0.03	HOURS

P-18 STA. 1137+52.00 - STA. 1137+56.00, L = 4.00
SIDE = RIGHT
PAVEMENT WIDTH =12.0
SHOULDER WIDTH = 4.0

ITEM 446 TYPE 1	(12 + 4) X 4.00 X (1.25/12)/27	= 0.25	C.Y.
ITEM 446 TYPE 2	(12 + 4) X 4.00 X (1.75/12)/27	= 0.35	C.Y.
ITEM 407 (INTERMEDIATE)	(12 + 4) X 4.00 / 9 X 0.05	= 0.36	GAL.
ITEM 407	(12 + 4) X 4.00 / 9 X 0.075	= 0.53	GAL.
ITEM 301 (8")	((12 + 4 + (2X4/12)) X 8/12 X 4.00 / 27	= 1.65	C.Y.
ITEM 304 (6")	((12 + 4 + (2X10/12)) X 6/12 X 4.00 / 27	= 1.31	C.Y.
ITEM 204 (S. COMPACTION)	(12 + 4) X 4.00 / 9	= 7.11	S.Y.
ITEM 204 (P. ROLLING)	7.11 / 3000	= 0.00	HOURS

P-19 STA. 1137+56.00 - STA. 1138+00.00, L = 44.00
SIDE = RIGHT
PAVEMENT WIDTH 1 = 12.0', PAVEMENT WIDTH 2 = 11.2', AVERAGE PAVEMENT WIDTH =11.60'
SHOULDER WIDTH = 8.0

ITEM 446 TYPE 1	(11.6 + 8) X 44.00 X (1.25/12)/27	= 3.33	C.Y.
ITEM 446 TYPE 2	(11.6 + 8) X 44.00 X (1.75/12)/27	= 4.66	C.Y.
ITEM 407 (INTERMEDIATE)	(11.6 + 8) X 44.00 / 9 X 0.05	= 4.79	GAL.
ITEM 407	(11.6 + 8) X 44.00 / 9 X 0.075	= 7.19	GAL.
ITEM 301 (8")	((11.6 + 8 + (2X4/12)) X 8/12 X 44.00 / 27	= 22.02	C.Y.
ITEM 304 (6")	((11.6 + 8 + (2X10/12)) X 6/12 X 44.00 / 27	= 17.33	C.Y.
ITEM 204 (S. COMPACTION)	(11.6 + 8) X 44.00 / 9	= 95.82	S.Y.
ITEM 204 (P. ROLLING)	95.82 / 3000	= 0.03	HOURS

P-20 STA. 820+97.09 - STA. 827+02.09, L = 605.00
SIDE = RIGHT
PAVEMENT WIDTH 1 = 00.0', PAVEMENT WIDTH 2 = 11.0', AVERAGE PAVEMENT WIDTH =05.50'

ITEM 446 TYPE 1	5.5 X 605.00 X (1.25/12)/27	= 12.84	C.Y.
ITEM 446 TYPE 2	5.5 X 605.00 X (1.75/12)/27	= 17.97	C.Y.
ITEM 407 (INTERMEDIATE)	5.5 X 605.00 / 9 X 0.05	= 18.49	GAL.
ITEM 407	5.5 X 605.00 / 9 X 0.075	= 27.73	GAL.
ITEM 301 (8")	5.5 X 8/12 X 605.00 / 27	= 82.16	C.Y.
ITEM 304 (6")	5.5 X 6/12 X 605.00 / 27	= 61.62	C.Y.
ITEM 204 (S. COMPACTION)	5.5 X 605.00 / 9	= 369.72	S.Y.
ITEM 204 (P. ROLLING)	369.72 / 3000	= 0.12	HOURS

P-21 STA. 827+02.09 - STA. 834+52.09, L = 750.00
SIDE = RIGHT
PAVEMENT WIDTH =11.00'

ITEM 446 TYPE 1	11 X 750.00 X (1.25/12)/27	= 31.83	C.Y.
ITEM 446 TYPE 2	11 X 750.00 X (1.75/12)/27	= 44.56	C.Y.
ITEM 407 (INTERMEDIATE)	11 X 750.00 / 9 X 0.05	= 45.83	GAL.
ITEM 407	11 X 750.00 / 9 X 0.075	= 68.75	GAL.
ITEM 301 (8")	11 X 8/12 X 750.00 / 27	= 203.70	C.Y.
ITEM 304 (6")	11 X 6/12 X 750.00 / 27	= 152.78	C.Y.
ITEM 204 (S. COMPACTION)	11 X 750.00 / 9	= 916.67	S.Y.
ITEM 204 (P. ROLLING)	916.67 / 3000	= 0.31	HOURS

P-22 STA. 835+90.92 - STA. 838+40.92, L = 250.00
SIDE = RIGHT
PAVEMENT WIDTH =11.00'

ITEM 446 TYPE 1	11 X 250.00 X (1.25/12)/27	= 10.61	C.Y.
ITEM 446 TYPE 2	11 X 250.00 X (1.75/12)/27	= 14.85	C.Y.
ITEM 407 (INTERMEDIATE)	11 X 250.00 / 9 X 0.05	= 15.28	GAL.
ITEM 407	11 X 250.00 / 9 X 0.075	= 22.92	GAL.
ITEM 301 (8")	11 X 8/12 X 250.00 / 27	= 67.90	C.Y.
ITEM 304 (6")	11 X 6/12 X 250.00 / 27	= 50.93	C.Y.
ITEM 204 (S. COMPACTION)	11 X 250.00 / 9	= 305.56	S.Y.
ITEM 204 (P. ROLLING)	305.56 / 3000	= 0.10	HOURS

P-23 STA. 838+40.92 - STA. 842+14.11, L = 373.19
SIDE = RIGHT
PAVEMENT WIDTH 1 = 11.0', PAVEMENT WIDTH 2 = 06.8', AVERAGE PAVEMENT WIDTH =08.90'

ITEM 446 TYPE 1	8.895 X 373.19 X (1.25/12)/27	= 12.81	C.Y.
ITEM 446 TYPE 2	8.895 X 373.19 X (1.75/12)/27	= 17.93	C.Y.
ITEM 407 (INTERMEDIATE)	8.895 X 373.19 / 9 X 0.05	= 18.44	GAL.
ITEM 407	8.895 X 373.19 / 9 X 0.075	= 27.66	GAL.
ITEM 301 (8")	8.895 X 8/12 X 373.19 / 27	= 81.96	C.Y.
ITEM 304 (6")	8.895 X 6/12 X 373.19 / 27	= 61.47	C.Y.
ITEM 204 (S. COMPACTION)	8.895 X 373.19 / 9	= 368.84	S.Y.
ITEM 204 (P. ROLLING)	368.84 / 3000	= 0.12	HOURS

P-24 STA. 1051+33.15 - STA. 1053+64.96, L = 231.81
SIDE = RIGHT
PAVEMENT WIDTH 1 = 06.8', PAVEMENT WIDTH 2 = 00.0', AVERAGE PAVEMENT WIDTH =03.40'

ITEM 446 TYPE 1	3.395 X 231.81 X (1.25/12)/27	= 3.04	C.Y.
ITEM 446 TYPE 2	3.395 X 231.81 X (1.75/12)/27	= 4.25	C.Y.
ITEM 407 (INTERMEDIATE)	3.395 X 231.81 / 9 X 0.05	= 4.37	GAL.
ITEM 407	3.395 X 231.81 / 9 X 0.075	= 6.56	GAL.
ITEM 301 (8")	3.395 X 8/12 X 231.81 / 27	= 19.43	C.Y.
ITEM 304 (6")	3.395 X 6/12 X 231.81 / 27	= 14.57	C.Y.
ITEM 204 (S. COMPACTION)	3.395 X 231.81 / 9	= 87.44	S.Y.
ITEM 204 (P. ROLLING)	87.44 / 3000	= 0.03	HOURS

CALCULATED BBD
CHECKED JDP

PAVEMENT CALCULATIONS

MED-94-15.82

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FEATHER AREA QUANTITIES
SR 94 SOUTH AREA 15' X 25.9' - 388.5 S.F.
SR 94 NORTH AREA 15' X 24.5' - 367.5 S.F.
SR 3 WEST AREA 15' X 26.5' - 397.5 S.F.
SR 3 EAST AREA 15' X 20' - 300 S.F.
TOTAL AREA 1453.5 S.F.

ITEM 202 WEARING COURSE REMOVED 1453.5 / 9 - 161.50 S.Y.USE 162 S.Y.
ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 1453.5 X 1.25/12 / 27 - 5.61 C.Y., USE 6 S.Y.
ITEM 407 TACK COAT 1453.5 / 9 X 0.075 - 12.11 GAL., USE 12 GAL.

QUANTITIES CARRIED TO GENERAL SUMMARY

PAVEMENT AND DRIVE SUBSUMMARY

				204	204	301	304	407	407		446	446	452
				SUBGRADE COMPACTION	PROOF ROLLING	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	TACK COAT	INTERMEDIATE TACK COAT		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	6" NON-REINFORCED CONCRETE PAVEMENT
				S.Y.	HOURS	C.Y.	C.Y.	GAL.	GAL.		C.Y.	C.Y.	S.Y.
	P-1			60.35	0.02	13.86	10.91	4.53	3.02		2.10	2.93	
	P-2			232.22	0.08	53.33	41.93	17.42	11.61		8.06	11.29	
	P-3			310.93	0.10	71.27	55.90	23.32	15.55		10.80	15.11	
	P-4			6311.51	2.10	1425.93	1095.75	473.36	315.58		219.15	306.81	
	P-5			1314.60	0.44	294.60	223.72	98.59	65.73		45.65	63.90	
	P-6			2769.73	0.92	625.75	480.86	207.73	138.49		96.17	134.64	
	P-7			1374.89	0.46	310.62	238.70	103.12	68.74		47.74	66.83	
	P-8			190.21	0.06	43.63	34.25	14.27	9.51		6.60	9.25	
	P-9			61.11	0.02	14.03	11.03	4.58	3.06		2.12	2.97	
	P-10			119.17	0.04	27.39	21.56	8.94	5.96		4.14	5.79	
	P-11			338.43	0.11	77.56	60.82	25.38	16.92		11.75	16.45	
	P-12			12.19	0.00	2.80	2.20	0.91	0.61		0.42	0.59	
	P-13			305.56	0.10	70.16	55.17	22.92	15.28		10.61	14.85	
	P-14			1767.42	0.59	399.31	306.84	132.56	88.37		61.37	85.92	
	P-15			2405.73	0.80	543.52	417.66	180.43	120.29		83.53	116.95	
	P-16			934.40	0.31	211.97	163.84	70.08	46.72		32.44	45.42	
	P-17			76.80	0.03	17.86	14.28	5.76	3.84		2.67	3.73	
	P-18			7.11	0.00	1.65	1.31	0.53	0.36		0.25	0.35	
	P-19			95.82	0.03	82.16	17.33	7.19	4.79		3.33	4.66	
	P-20			369.72	0.12	17.33	61.62	27.73	18.49		12.84	17.97	
	P-21			916.67	0.31	203.70	152.78	68.75	45.83		31.83	44.56	
	P-22			305.56	0.10	67.90	50.93	22.92	15.28		10.61	14.85	
	P-23			368.84	0.12	81.96	61.47	27.66	18.44		12.81	17.93	
	P-24			87.44	0.03	19.43	14.57	6.56	4.37		3.04	4.25	
DRIVEWAY STATION		* FLARE AREA FROM CADD S.F.	AREA OUTSIDE FLARE FROM CADD S.F.				8",6"						
823+67.28	AGGR.	316.3	440.3			7.81	10.93,5.86	2.64	1.76		1.22	1.71	
824+50.62	AGGR.	325.8	411.1			8.04	10.20,6.03	2.72	1.81		1.26	1.76	
827+64.85	AGGR.	337.3	544.1			8.33	13.50,6.25	2.81	1.87		1.30	1.82	
830+29.87	CONC.	288.0	893.1			7.11	5.33	2.40	1.60		1.11	1.56	99.23
833+95.24	AGGR.	581.9	585.4			14.37	14.53,10.78	4.85	3.23		2.24	3.14	
838+71.61	AGGR.	336.1	984.3			8.30	24.43,6.22	2.80	1.87		1.30	1.82	
1052+84.79	AGGR.	506.4	521.9			12.50	12.95,9.38	4.22	2.81		1.95	2.74	
1054+30.55	CONC.	301.3	376.8			7.44	5.58	2.51	1.67		1.16	1.63	41.87
1054+65.35	AGGR.	270.8	0			6.69	5.01	2.26	1.50		1.04	1.46	
1035+75.00	CONC.	431.1	178.3			10.64	7.98	3.59	2.40		1.66	2.33	19.81
1036+24.74	AGGR.	280.6	115.2			6.93	2.86,5.20	2.34	1.56		1.08	1.52	
1036+76.94	AGGR.	365.4	443.6			9.02	11.01,6.77	3.05	2.03		1.41	1.97	
1041+15.22	AGGR.	370.5	96.8			9.15	2.40,6.86	3.09	2.06		1.43	2.00	
1129+61.21	AGGR.	408.7	30.4			10.09	.75,7.57	3.41	2.27		1.58	2.21	
1131+80.11	AGGR.	384.0	738.9			9.48	18.34,7.11	3.20	2.13		1.48	2.07	
1135+50.00	AGGR.	630.3	207.6			15.56	5.15,11.67	5.25	3.50		2.43	3.40	
TOTALS				20736.42	6.91	4829.19	3477.87	1606.35	1070.90		743.68	1041.15	160.91
TOTALS CARRIED TO GENERAL SUMMARY				20736	7	4830	3480	1610	1071		745	1045	165

* NOT INCLUDING SHOULDER

CALCULATED BBD
CHECKED JDP

PAVEMENT AND DRIVE CALCULATIONS / SUBSUMMARY

MED-94-15.82

22A
101

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CALCULATIONS

SEEDING AND MULCHING

ITEM 659 SEEDING AND MULCHING
FROM CROSS SECTIONS AND SLIP RAMP REMOVAL
SEE SHEETS 20 AND 11
TOTAL OF 26005 S.Y. SEEDING AND MULCHING

ITEM 659 TOPSOIL
111 C.Y. PER 1000 S.Y. OF PERMANENT SEEDING
111 X 26005 / 1000 = 2886.56 C.Y.
USE 2887 C.Y.

ITEM 659 SOIL ANALYSIS TEST
ONE TEST PER 10000 C.Y. TOPSOIL, WITH A MINIMUM OF TWO
LESS THAN 10000 C.Y. TOPSOIL, SO USE TWO TESTS

ITEM 659 COMMERCIAL FERTILIZER
30 LBS. PER 1000 S.F. PERMANENT SEEDING
30 X 26005 X 9 /1000 / 2000 = 3.51 TONS
USE 3.51 TONS

ITEM 659 AGRICULTURAL LIME
92 LBS. PER 1000 S.F. PERMANENT SEEDING
92 X 26005 X 9 /1000 / 2000 = 10.77 TONS
USE 10.77 TONS

ITEM 659 WATER
2 APPLICATIONS AT 300 GALLONS PER 1000 S.F.
26005 S.Y. X 9 / 1000 X (2 X 300) / 1000 =140 M. GAL

ITEM 659 INTERSEEDING
5% OF PERMANENT SEEDING AND MULCHING = 0.05 X 26005 S.Y. = 1300.25 S.Y., USE 1301 S.Y.

QUANTITIES CARRIED TO SHEET 9

CALCULATED BBD
CHECKED JDP

CALCULATIONS

MED-94-15.82

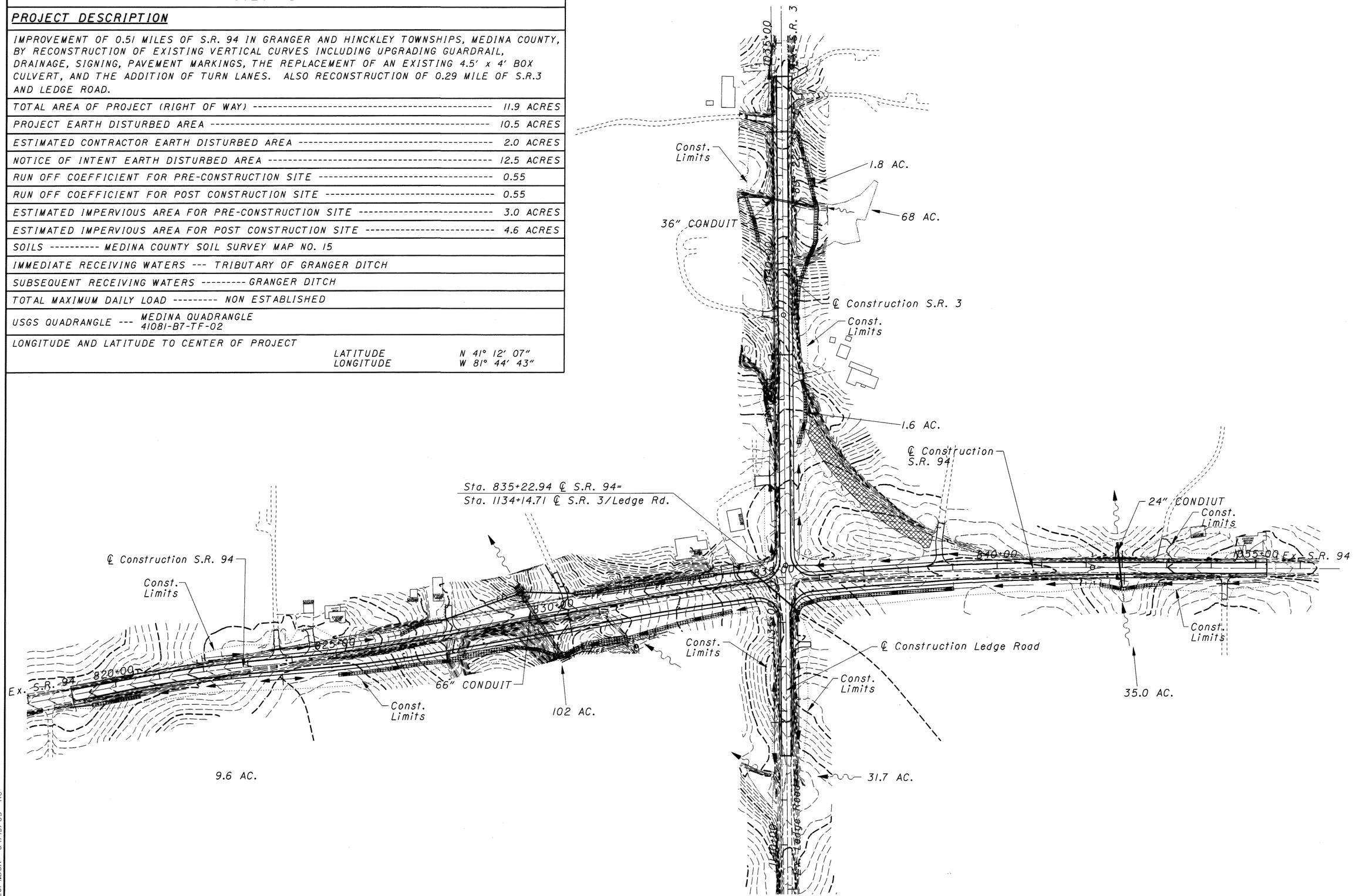
MED-94-15.82
223GC04-1.DGN 04/15/03 RC

PROJECT DATA

PROJECT DESCRIPTION

IMPROVEMENT OF 0.51 MILES OF S.R. 94 IN GRANGER AND HINCKLEY TOWNSHIPS, MEDINA COUNTY, BY RECONSTRUCTION OF EXISTING VERTICAL CURVES INCLUDING UPGRADING GUARDRAIL, DRAINAGE, SIGNING, PAVEMENT MARKINGS, THE REPLACEMENT OF AN EXISTING 4.5' x 4' BOX CULVERT, AND THE ADDITION OF TURN LANES. ALSO RECONSTRUCTION OF 0.29 MILE OF S.R.3 AND LEDGE ROAD.

TOTAL AREA OF PROJECT (RIGHT OF WAY)	11.9 ACRES
PROJECT EARTH DISTURBED AREA	10.5 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	2.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA	12.5 ACRES
RUN OFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.55
RUN OFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.55
ESTIMATED IMPERVIOUS AREA FOR PRE-CONSTRUCTION SITE	3.0 ACRES
ESTIMATED IMPERVIOUS AREA FOR POST CONSTRUCTION SITE	4.6 ACRES
SOILS	MEDINA COUNTY SOIL SURVEY MAP NO. 15
IMMEDIATE RECEIVING WATERS	TRIBUTARY OF GRANGER DITCH
SUBSEQUENT RECEIVING WATERS	GRANGER DITCH
TOTAL MAXIMUM DAILY LOAD	NON ESTABLISHED
USGS QUADRANGLE	MEDINA QUADRANGLE 41081-B7-TF-02
LONGITUDE AND LATITUDE TO CENTER OF PROJECT	
LATITUDE	N 41° 12' 07"
LONGITUDE	W 81° 44' 43"



N

HORIZONTAL SCALE IN FEET
0 50 100 200

CALCULATED BBD
CHECKED JAP

PROJECT SITE PLAN

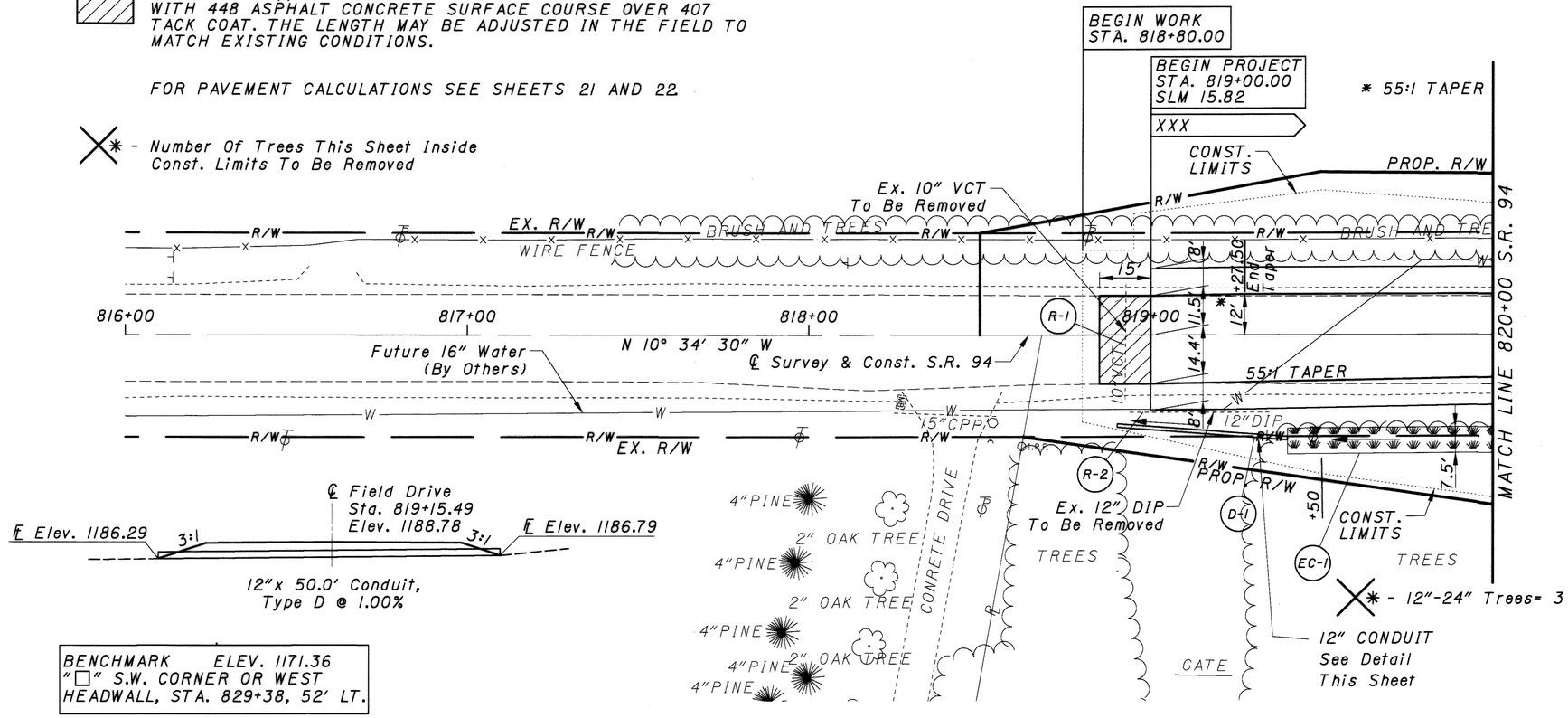
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223DEOI-1.DGN 04/15/03 RC

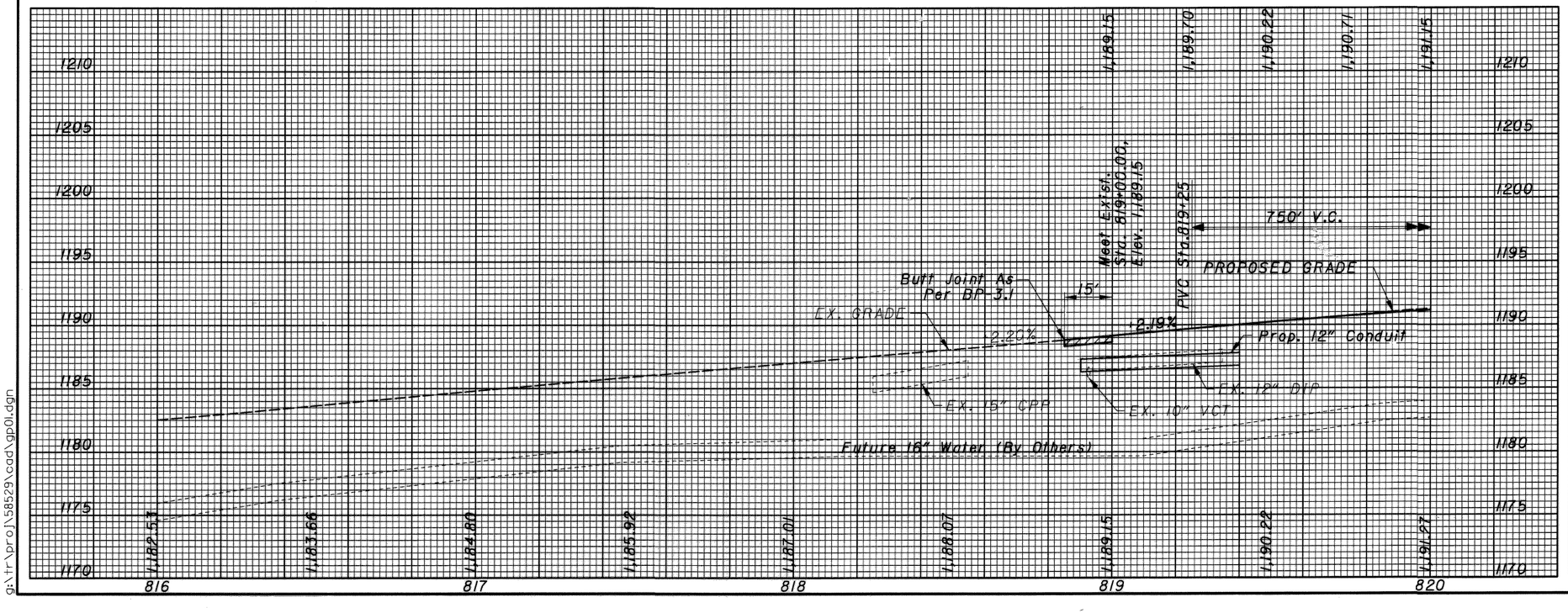
ITEM 202 - 1¼" WEARING COURSE REMOVED & RESURFACED WITH 448 ASPHALT CONCRETE SURFACE COURSE OVER 407 TACK COAT. THE LENGTH MAY BE ADJUSTED IN THE FIELD TO MATCH EXISTING CONDITIONS.

FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22

✱ - Number Of Trees This Sheet Inside Const. Limits To Be Removed



BENCHMARK ELEV. 1171.36
"□" S.W. CORNER OR WEST HEADWALL, STA. 829+38, 52' LT.



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER LIN FT	603 12" CONDUIT, TYPE D LIN FT	670 DITCH EROSION PROTECTION SY
EC-1	819+40	820+50	RT			92
R-1	818+93		LT/RT	35	50	
R-2	818+95	819+34	RT	39		
D-1	818+90	819+40	RT			
TOTALS CARRIED TO GENERAL SUMMARY				74	50	92

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD CHECKED JDP

PLAN AND PROFILE S.R. 94
STA. 816+00.00 TO STA. 820+00.00

MED-94-15.82

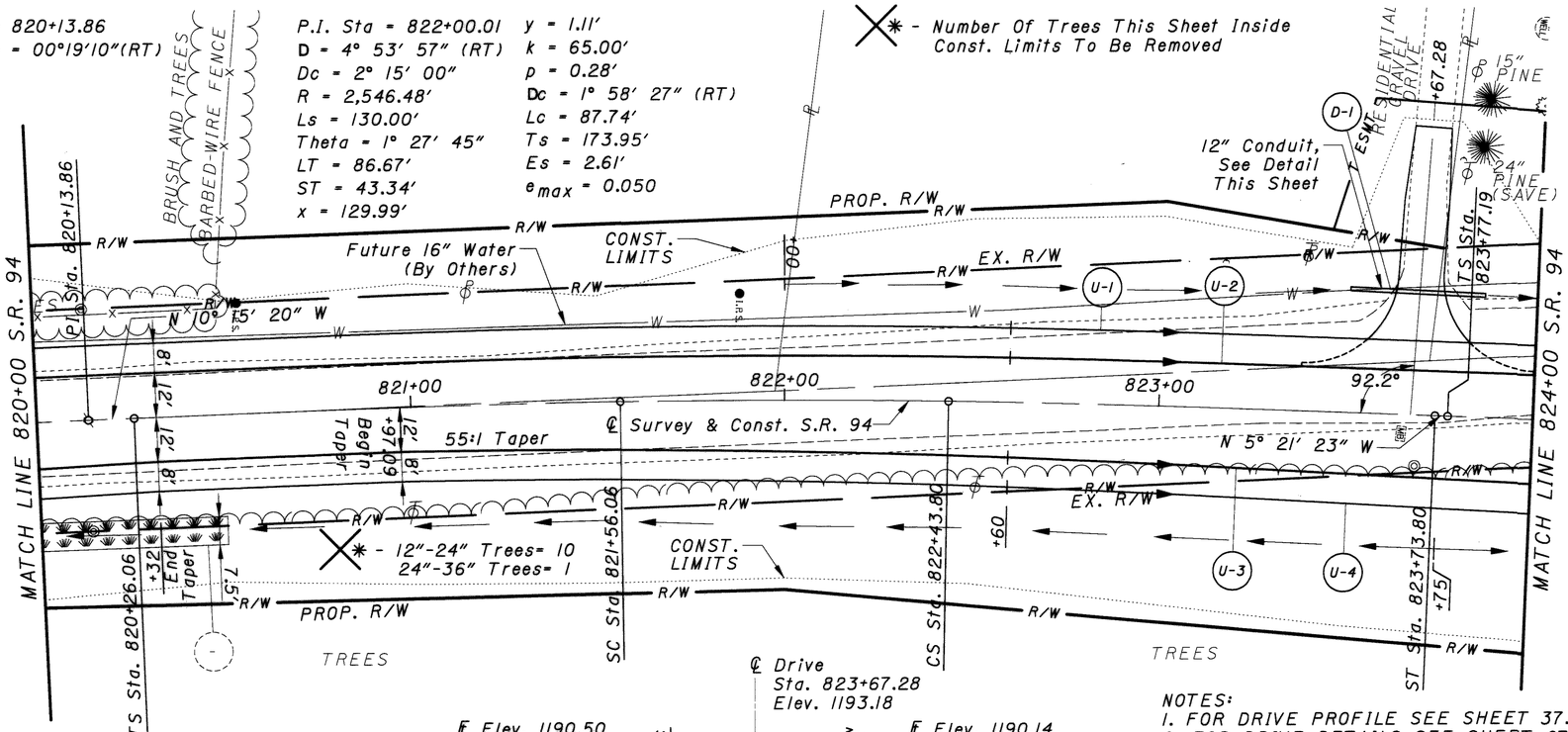
26
101

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P.I. Sta = 820+13.86
Deflection = 00°19'10"(RT)

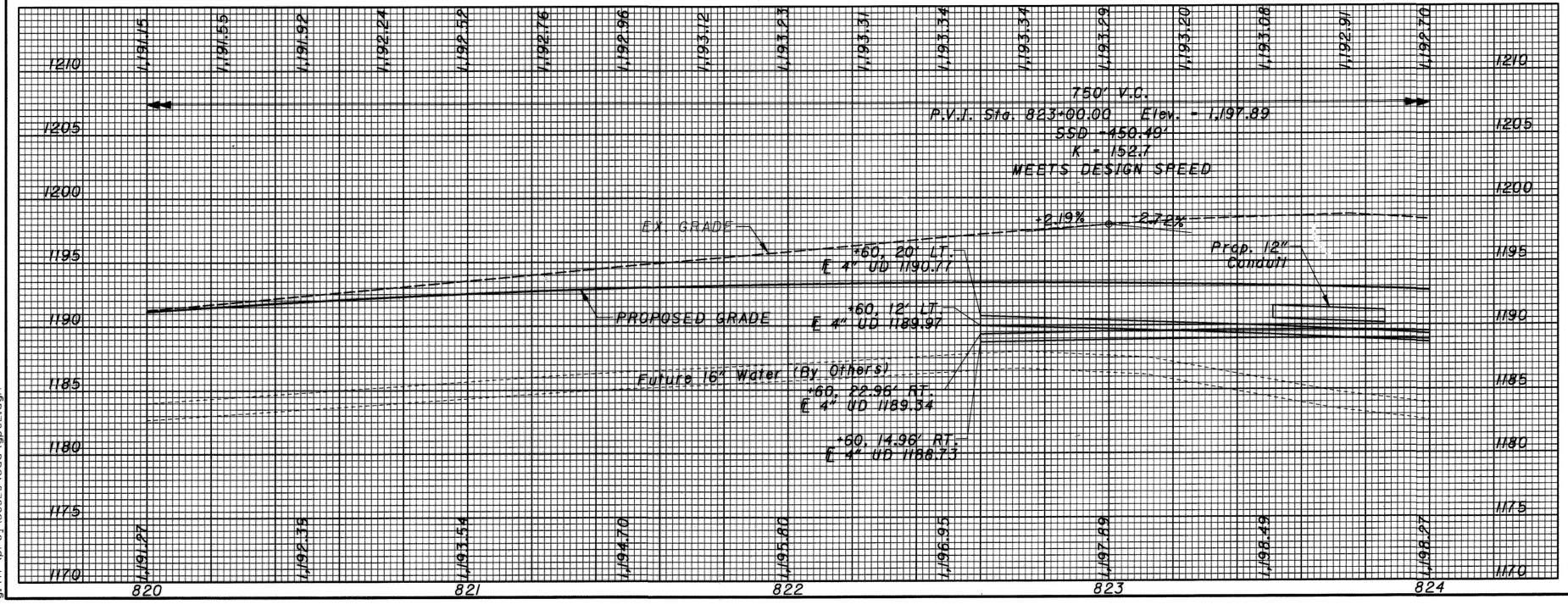
P.I. Sta = 822+00.01
D = 4° 53' 57" (RT)
Dc = 2° 15' 00"
R = 2,546.48'
Ls = 130.00'
Theta = 1° 27' 45"
LT = 86.67'
ST = 43.34'
x = 129.99'
y = 1.11'
k = 65.00'
p = 0.28'
Dc = 1° 58' 27" (RT)
Lc = 87.74'
Ts = 173.95'
Es = 2.61'
emax = 0.050

✳ - Number Of Trees This Sheet Inside Const. Limits To Be Removed



NOTES:
1. FOR DRIVE PROFILE SEE SHEET 37.
2. FOR DRIVE DETAILS SEE SHEET 67.
3. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
4. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19.

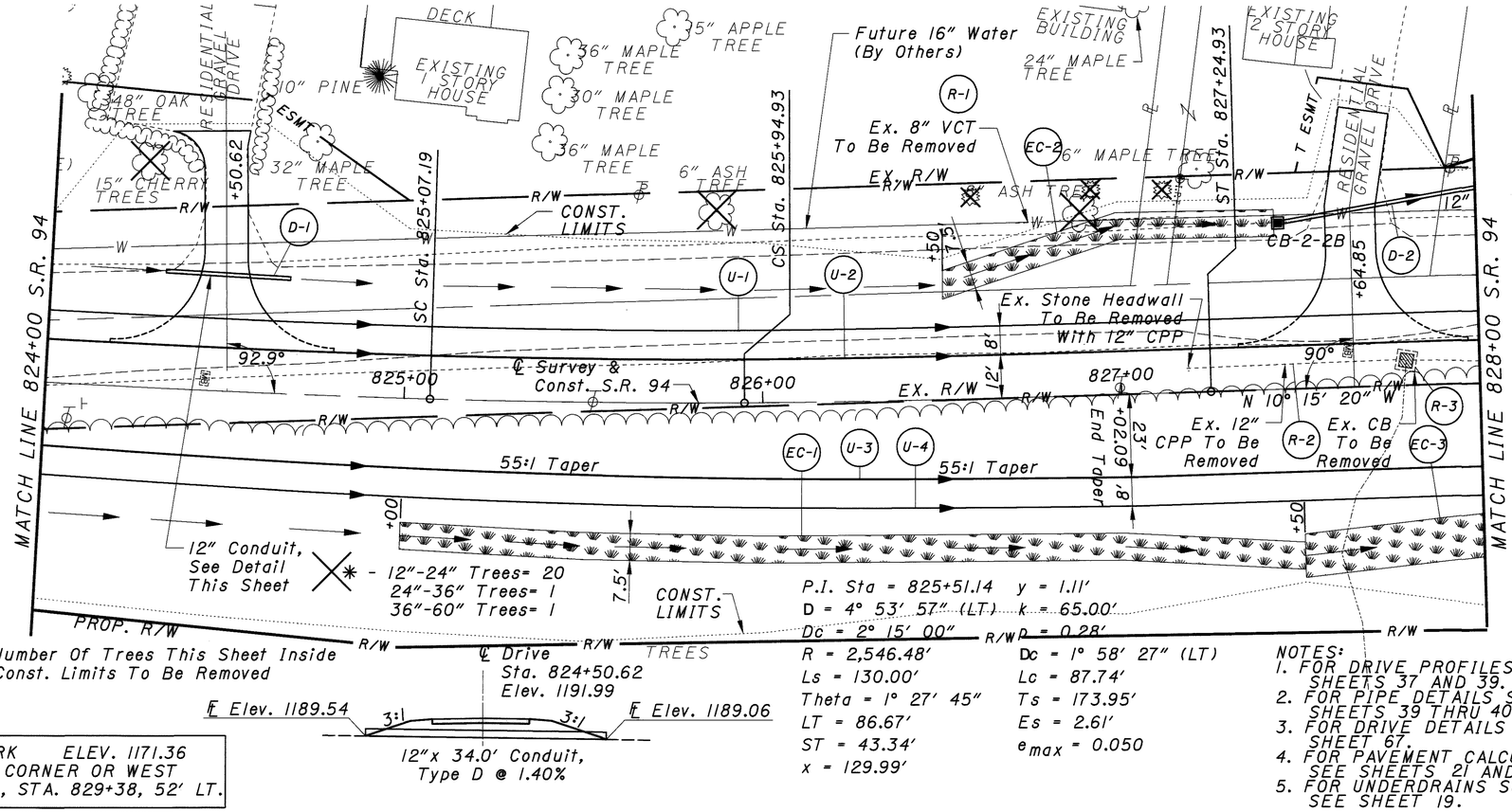
BENCHMARK ELEV. 1171.36
"□" S.W. CORNER OR WEST
HEADWALL, STA. 829+38, 52' LT.



REF NO.	STATION FROM	STATION TO	SIDE
D-1	823+50	823+85.97	LT

TOTALS CARRIED TO GENERAL SUMMARY

| 603 | 12" CONDUIT, TYPE D | LIN FT | 36 | | |

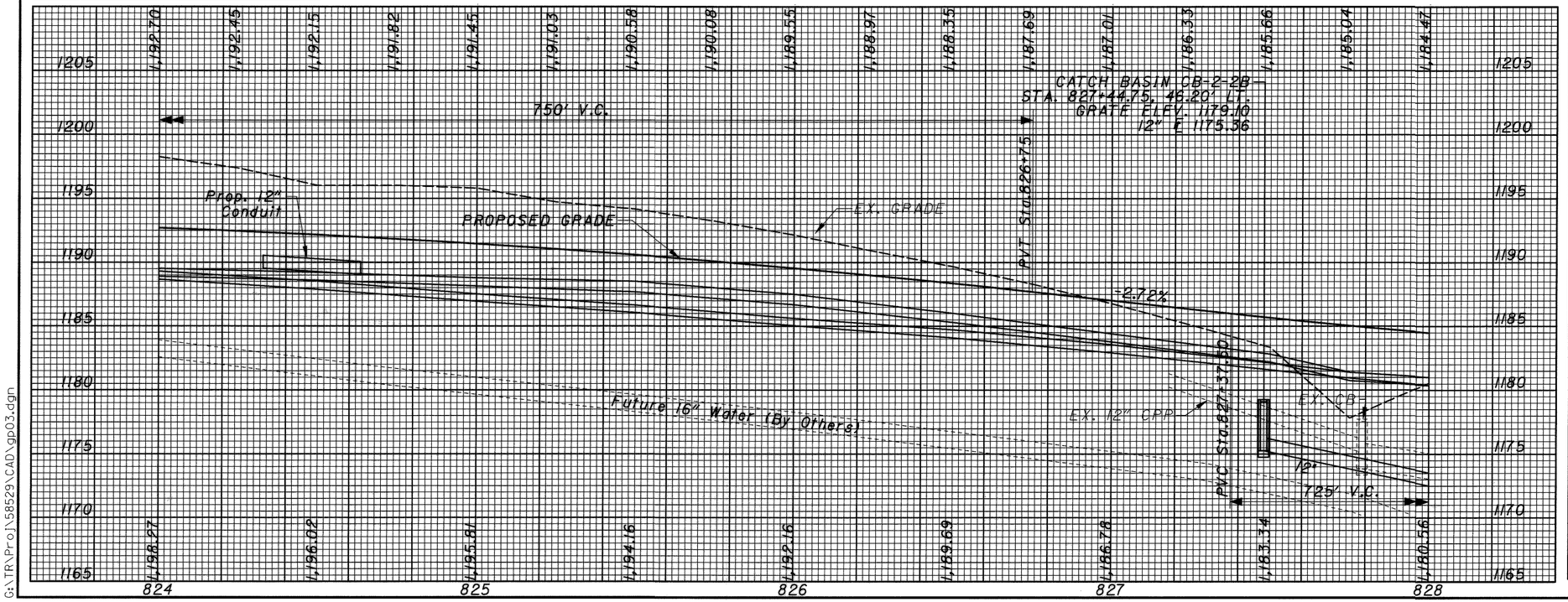


- Number Of Trees This Sheet Inside Const. Limits To Be Removed

BENCHMARK ELEV. 1171.36
"□" S.W. CORNER OR WEST HEADWALL, STA. 829+38, 52' LT.

P.I. Sta = 825+51.14 y = 1.11'
D = 4° 53' 57" (LT) k = 65.00'
Dc = 2° 15' 00" p = 0.28'
R = 2,546.48' Dc = 1° 58' 27" (LT)
Ls = 130.00' Lc = 87.74'
Theta = 1° 27' 45" Ts = 173.95'
LT = 86.67' Es = 2.61'
ST = 43.34' e_{max} = 0.050
x = 129.99'

NOTES:
1. FOR DRIVE PROFILES SEE SHEETS 37 AND 39.
2. FOR PIPE DETAILS SEE SHEETS 39 THRU 40.
3. FOR DRIVE DETAILS SEE SHEET 67.
4. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
5. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19.



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER LIN FT	202 CATCH BASIN REMOVED EACH	603 12" CONDUIT TYPE C LIN FT	603 12" CONDUIT TYPE D LIN FT	604 CATCH BASIN NO. 2-2B EACH	601 ROCK CHANNEL PROTECTION TYPE A W/ FILTER CY	602 CONCRETE MASONRY CY	670 DITCH EROSION PROTECTION SY
D-1	824+32.02	824+66.95	LT				34				208
D-2	827+44.75	829+23.40	LT			180		1	1.84	0.2	78
EC-1	825+00.00	829+00.00	RT								267
EC-2	826+50.00	827+43.60	LT								
EC-3	827+50.00	829+50.00	RT								
R-1	826+70.50	827+17.00	LT	46							
R-2	827+18.00	829+58.00	LT	239							
R-3	827+79.50		LT		1			1	2	0.2	553
TOTALS CARRIED TO GENERAL SUMMARY				285	1	180	34	1			

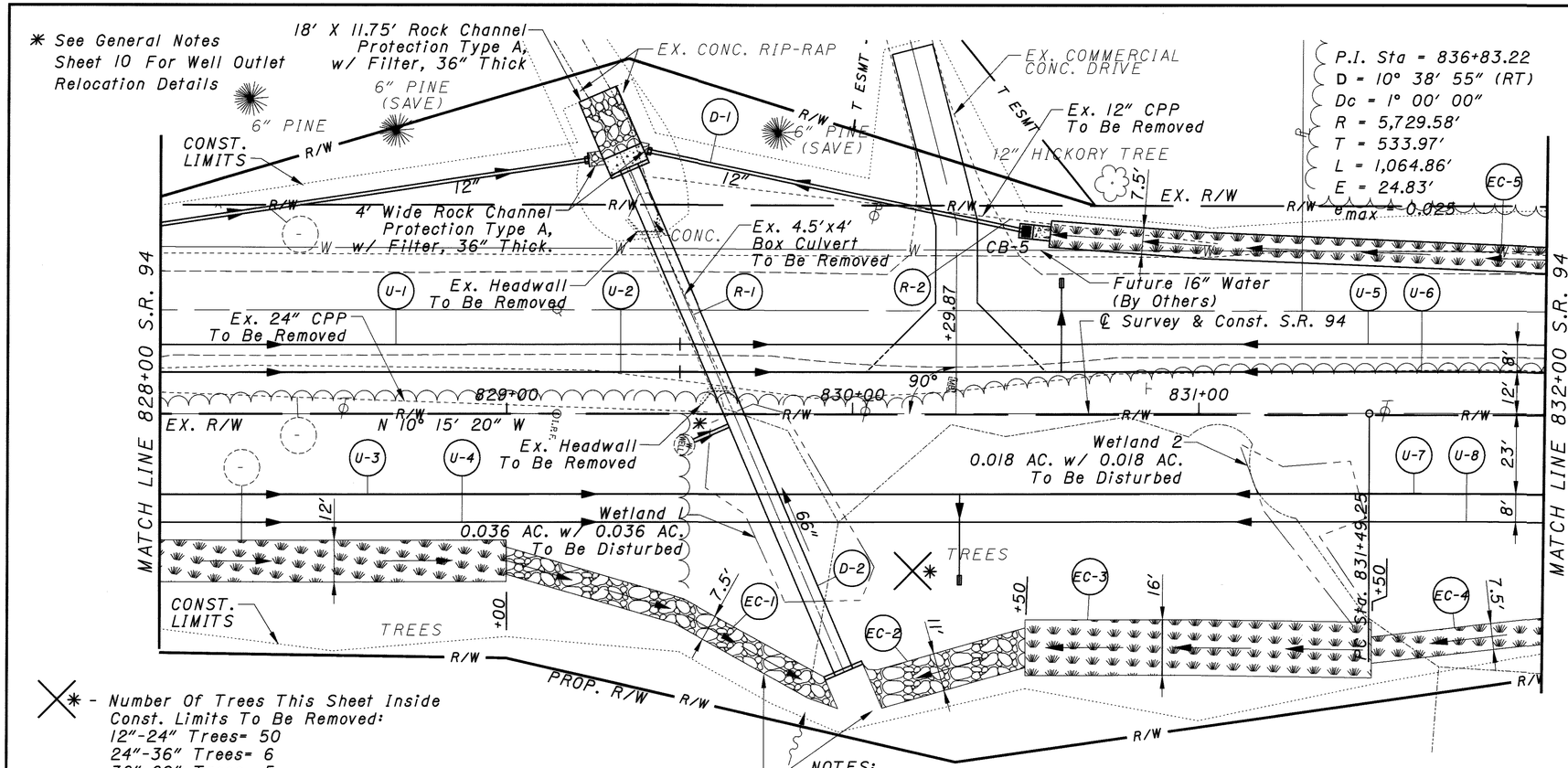
HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED BBD
CHECKED JDP

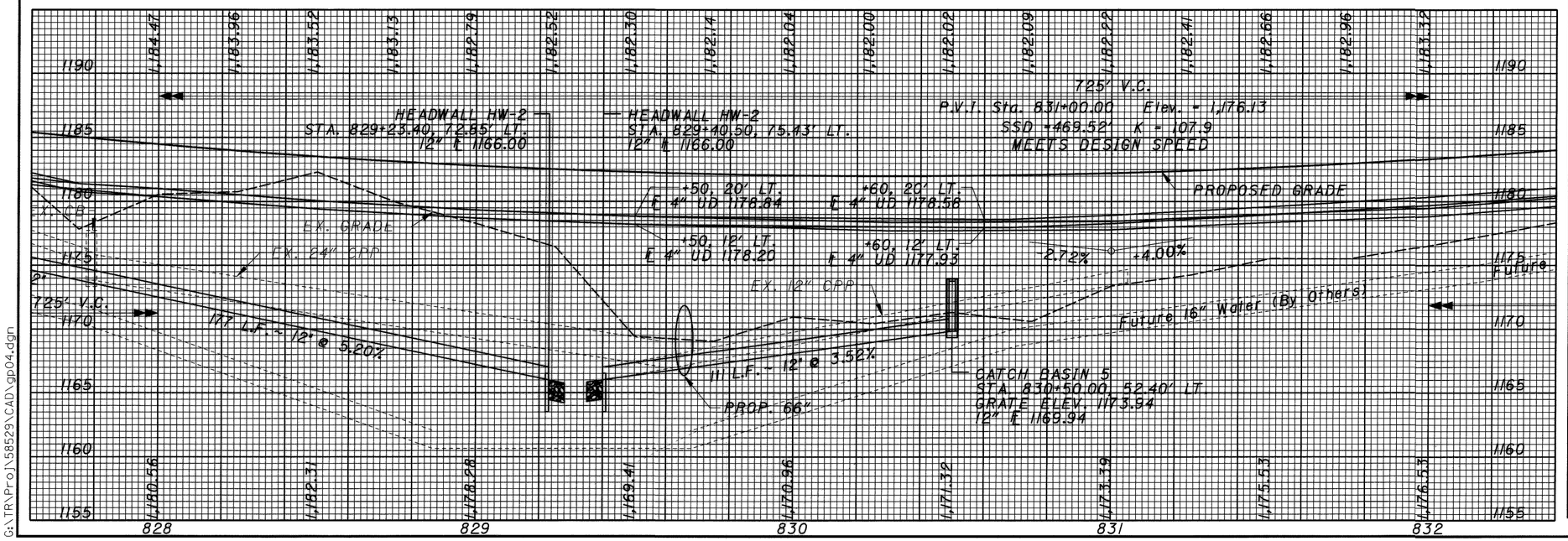
PLAN AND PROFILE S.R. 94
STA. 824+00.00 TO STA. 828+00.00

MED-94-15.82

28/101

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EROSION CONTROL CALCULATIONS:
EC-1 - 95.5 x 7.5 x 1.5 / 27 = 39.8 C.Y.
EC-2 - 70 x 11 x 1.5 / 27 = 43 C.Y.

* SEE CULVERT DETAIL SHEET FOR FULL CULVERT DESCRIPTION

REF NO.	STATION FROM	STATION TO	SIDE	601 ROCK CHANNEL PROTECTION TYPE A W/ FILTER CY	601 ROCK CHANNEL PROTECTION TYPE C W/ FILTER CY	602 CONCRETE MASONRY CY	603 12" CONDUIT TYPE C LIN FT	603 66" CONDUIT TYPE A* LIN FT	604 CATCH BASIN NO. 5 EACH	670 DITCH EROSION PROTECTION SY
D-1	829+40.50	830+50.00	LT	0.56		0.2	111		1	59
D-2	829+35.12	829+94.18	LT/RT	24		4.8		157.5		203
EC-1	829+00.00	829+86.77	RT		42.3					260
EC-2	829+86.77	830+50.00	RT		27.7					
EC-3	830+50.00	831+50.00	RT							
EC-4	831+50.00	833+95.00	RT							
EC-5	830+56.96	833+66.70	LT							
R-1	829+35.12	829+94.18	LT/RT	LUMP						
R-2	829+42.00	831+05.19	LT							
TOTALS CARRIED TO GENERAL SUMMARY				25	70	5.0	111	158	1	522

REF NO.	STATION FROM	STATION TO	SIDE	202 STRUCTURE REMOVED LUMP	202 PIPE REMOVED, 24" AND UNDER LIN FT
TOTALS CARRIED TO GENERAL SUMMARY				LUMP	164

HORIZONTAL SCALE IN FEET
0 10 20 40

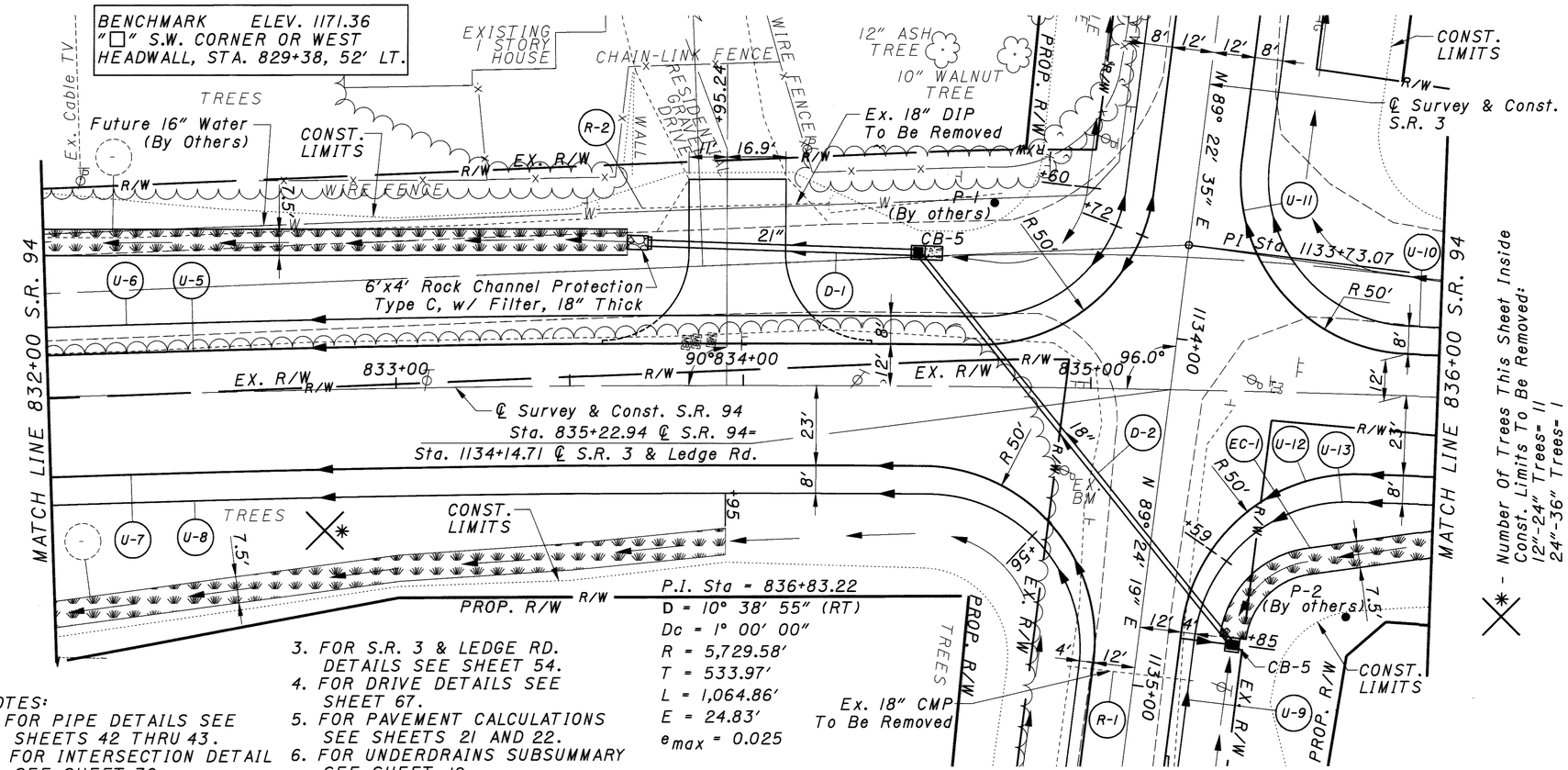
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CHECKED JDP

PLAN AND PROFILE S.R. 94
STA. 828+00.00 TO STA. 832+00.00

MED-94-15.82

29/101

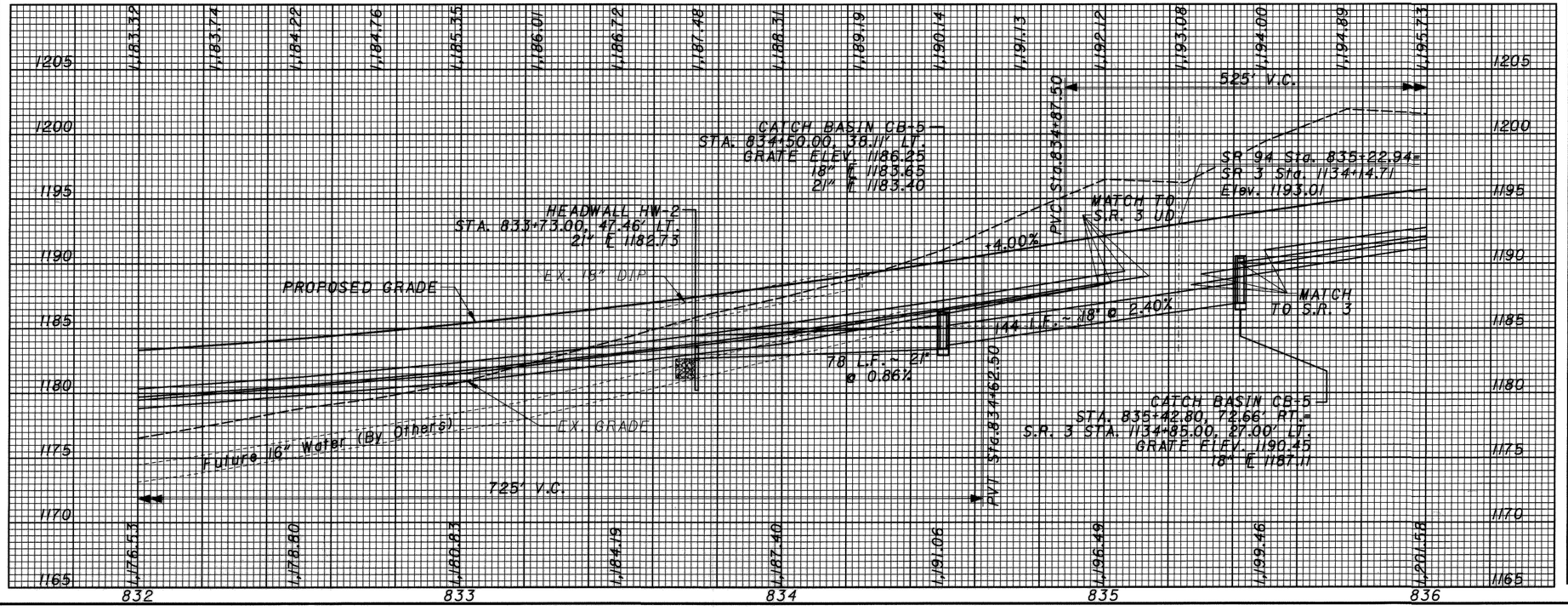
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NOTES:

1. FOR PIPE DETAILS SEE SHEETS 42 THRU 43.
2. FOR INTERSECTION DETAIL SEE SHEET 70.
3. FOR S.R. 3 & LEDGE RD. DETAILS SEE SHEET 54.
4. FOR DRIVE DETAILS SEE SHEET 67.
5. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
6. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19.

INTERSECTION SIGHT DISTANCE EXCEEDS DESIGN REQUIREMENTS.



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" AND UNDER LIN FT	601 ROCK CHANNEL PROTECTION TYPE C W/ FILTER CY	602 CONCRETE MASONRY CY	603 18" CONDUIT TYPE B LIN FT	603 21" CONDUIT TYPE C LIN FT	604 CATCH BASIN NO. 5 EACH	604 CATCH BASIN NO. 5 WITHOUT APRON EACH	670 DITCH ERROSION PROTECTION SY
D-1	833+73.00	834+50.00	LT		1.33	0.37		78	1	1	308
D-2	834+50.00	835+43.81	LT/RT				138				
EC-1	835+40.60	839+00.00	RT						1		
R-1	834+94.00	835+31.70	RT	37							
R-2	833+57.40	834+24.60	LT	68							
TOTALS CARRIED TO GENERAL SUMMARY				105	1	0.4	138	78	1	1	308

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JDP

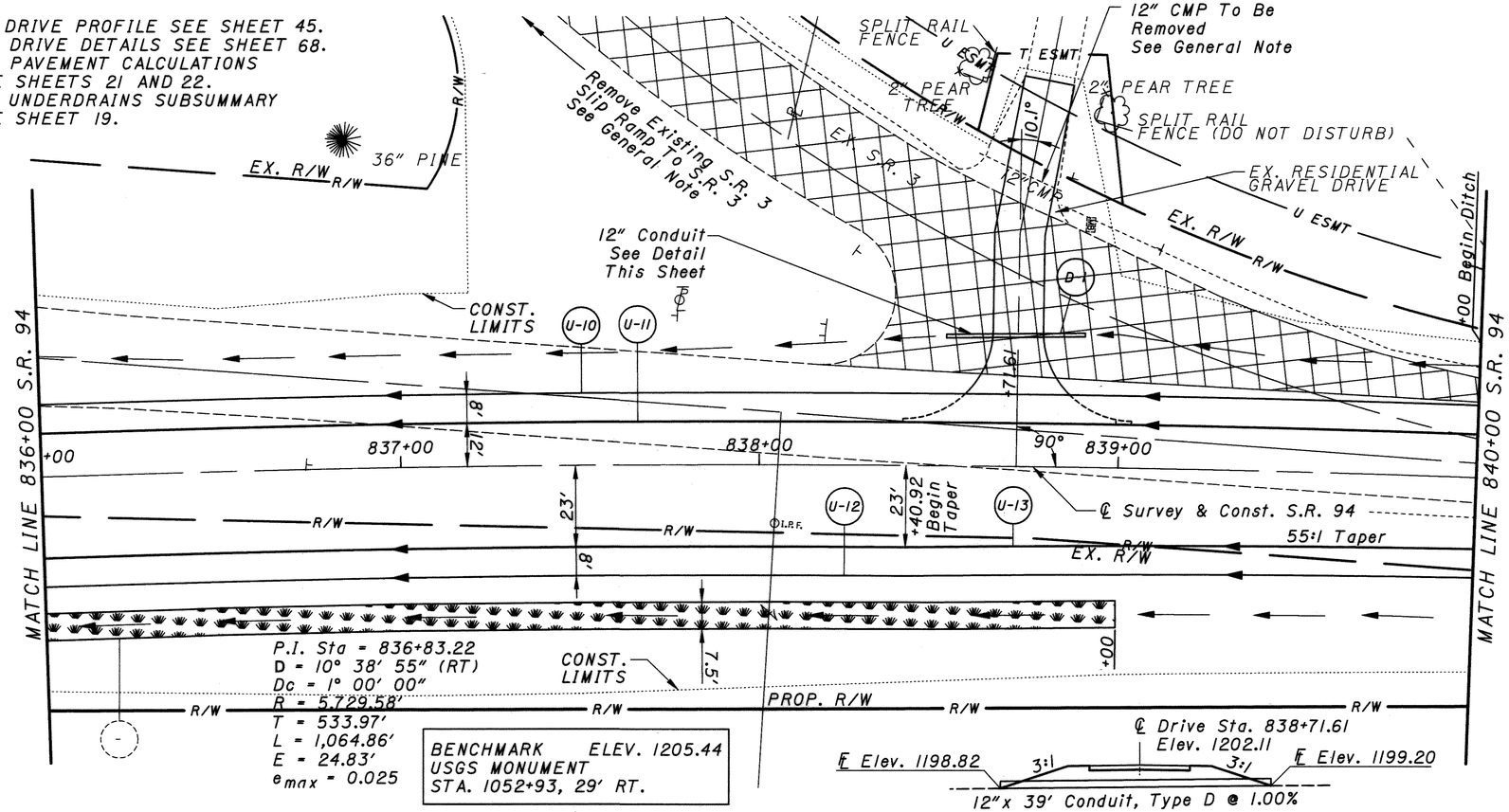
PLAN AND PROFILE S.R. 94
STA. 832+00.00 TO STA. 836+00.00

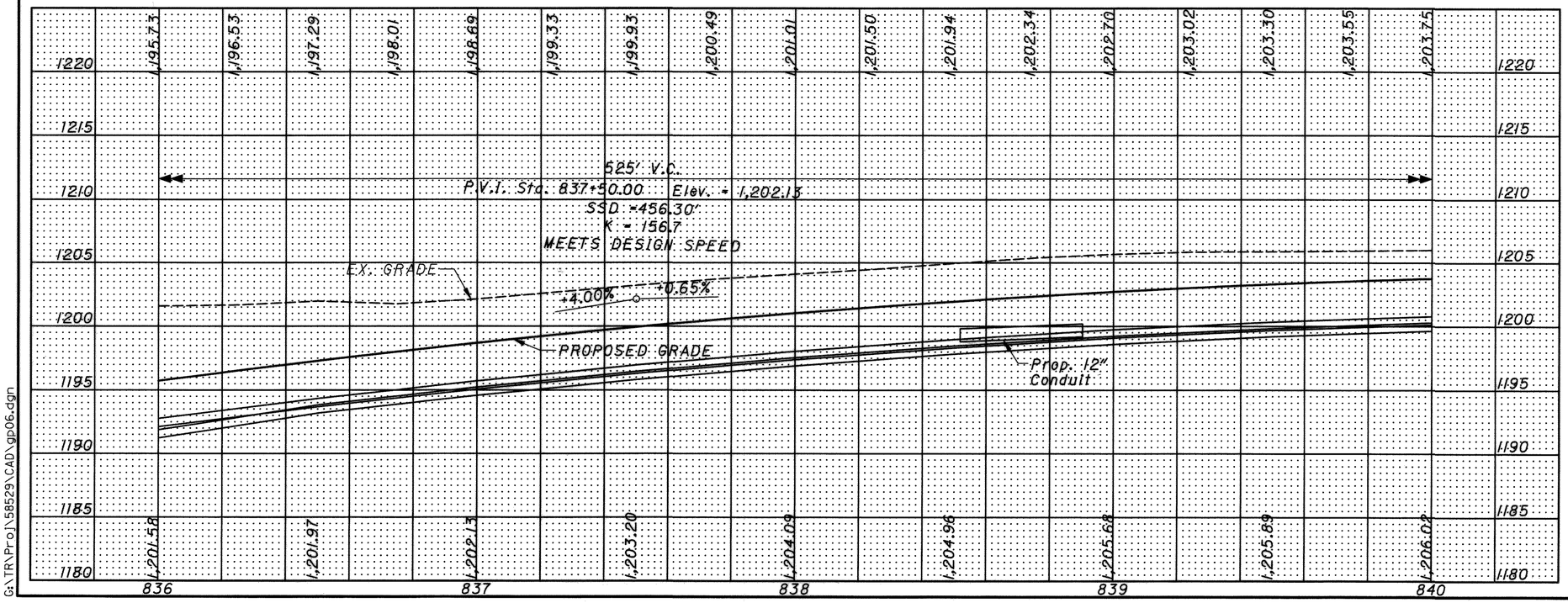
MED-94-15.82

30
101

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NOTE:
1. FOR DRIVE PROFILE SEE SHEET 45.
2. FOR DRIVE DETAILS SEE SHEET 68.
3. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
4. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19.





REF NO.	STATION FROM	STATION TO	SIDE
D-1	838+51.85	838+90.30	RT

603	12" CONDUIT TYPE D	LIN FT	39

TOTALS CARRIED TO GENERAL SUMMARY

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JDP

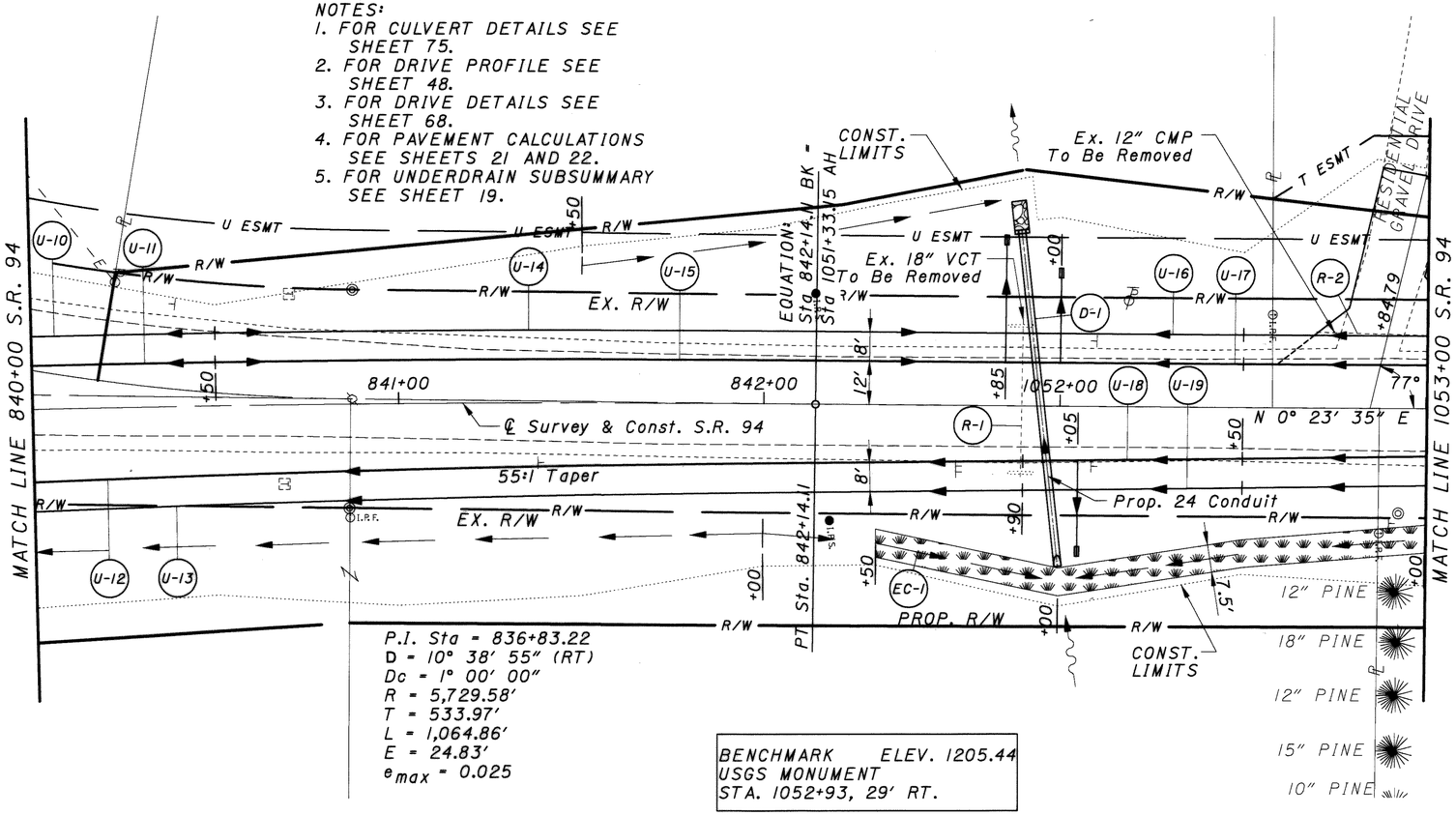
PLAN AND PROFILE S.R. 94
STA. 836+00.00 TO STA. 840+00.00

MED-94-15.82

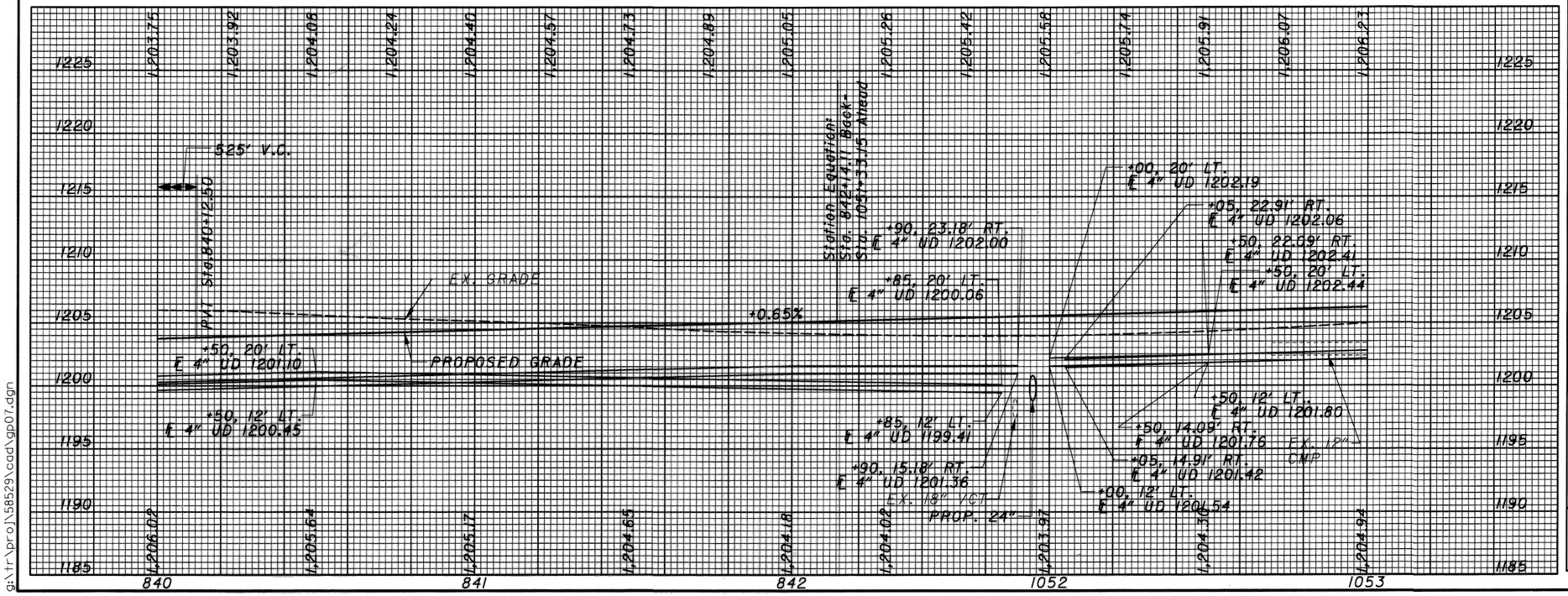
31
101

G:\TR\Proj\58529\CAD\gp06.dgn

NOTES:
1. FOR CULVERT DETAILS SEE SHEET 75.
2. FOR DRIVE PROFILE SEE SHEET 48.
3. FOR DRIVE DETAILS SEE SHEET 68.
4. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
5. FOR UNDERDRAIN SUBSUMMARY SEE SHEET 19.



BENCHMARK ELEV. 1205.44
USGS MONUMENT
STA. 1052+93, 29' RT.



* SEE CULVERT DETAIL SHEET FOR FULL CULVERT DESCRIPTION

REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER LIN FT	601 ROCK CHANNEL PROTECTION TYPE C W/ FILTER CY	602 CONCRETE MASONRY CY	603 24" CONDUIT TYPE A* LIN FT	670 DITCH ERROSION PROTECTION SY
D-1	1051+89.00	1051+99.55	LT/RT		2	0.46	93	126
EC-1	1051+50.00	1053+00.00	RT					
R-1	1051+89.42	1051+89.72	LT/RT	43				
R-2	1052+70.00	1053+03.55	LT	34				
TOTALS CARRIED TO GENERAL SUMMARY				77	2	0.5	93	126

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JPP

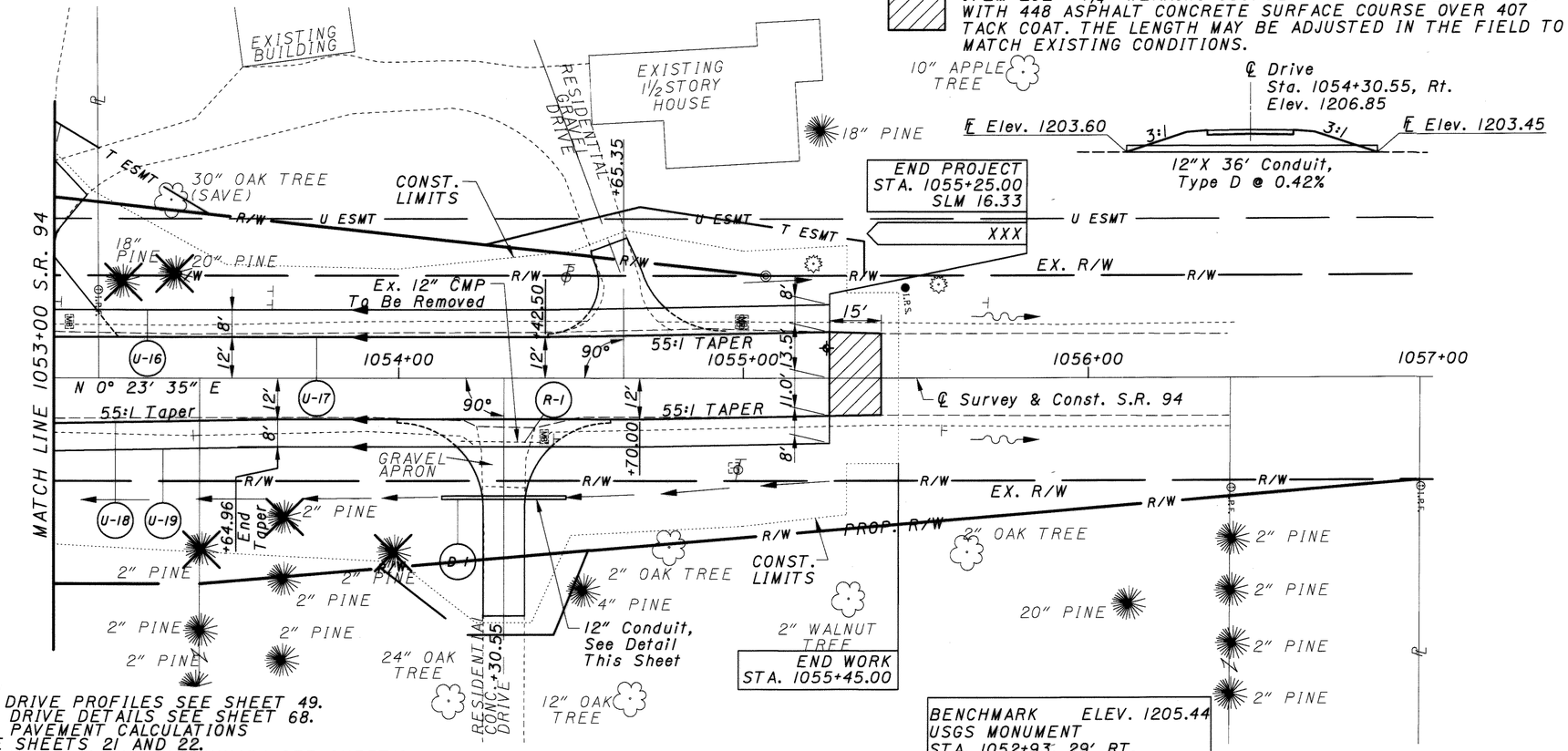
PLAN AND PROFILE S.R. 94
STA. 840+00.00 TO STA. 1053+00.00

MED-94-15.82

32
101

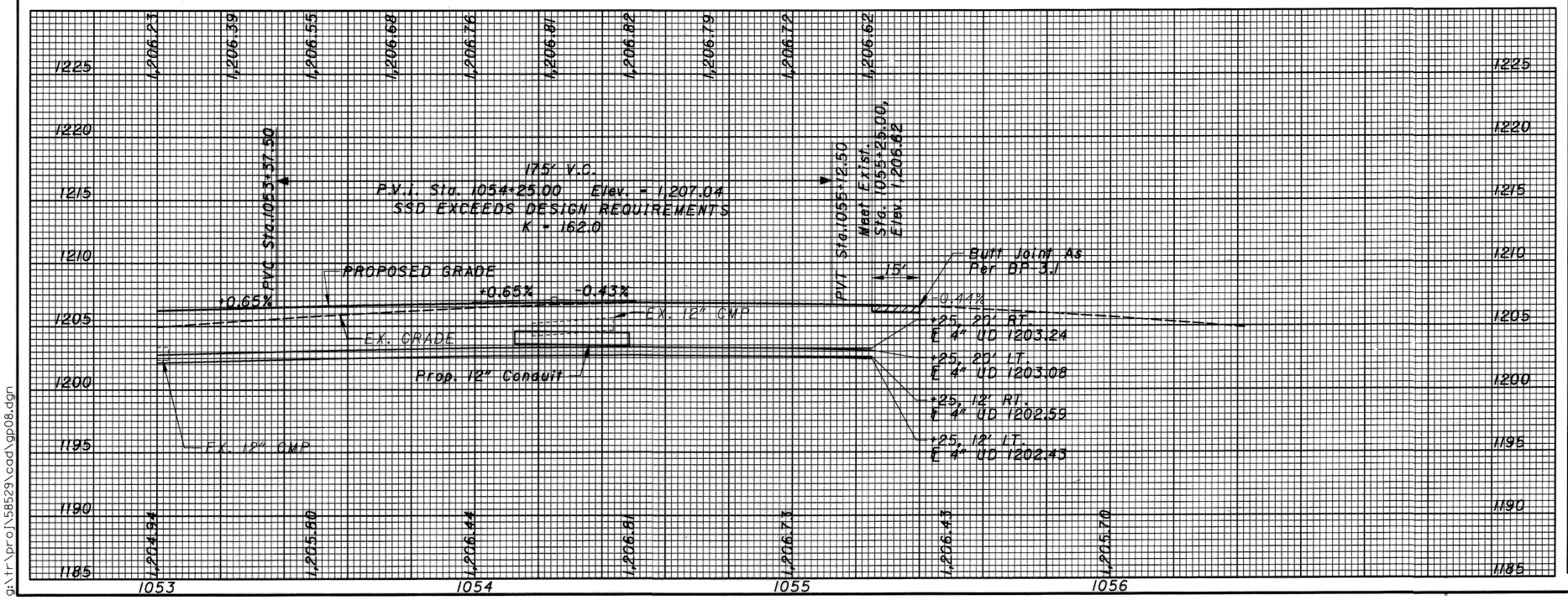
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ITEM 202 - 1¼" WEARING COURSE REMOVED & RESURFACED WITH 448 ASPHALT CONCRETE SURFACE COURSE OVER 407 TACK COAT. THE LENGTH MAY BE ADJUSTED IN THE FIELD TO MATCH EXISTING CONDITIONS.



NOTES:
1. FOR DRIVE PROFILES SEE SHEET 49.
2. FOR DRIVE DETAILS SEE SHEET 68.
3. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
4. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19 .

BENCHMARK ELEV. 1205.44
USGS MONUMENT
STA. 1052+93, 29' RT.



REF NO.	STATION FROM	STATION TO	SIDE	603 12" CONDUIT TYPE D LIN FT	202 PIPE REMOVED, 24" AND UNDER LIN FT
D-1	1054+12.55	1054+48.55	RT	36	
R-1	1054+18.11	1054+43.54	RT		25
TOTALS CARRIED TO GENERAL SUMMARY				36	25

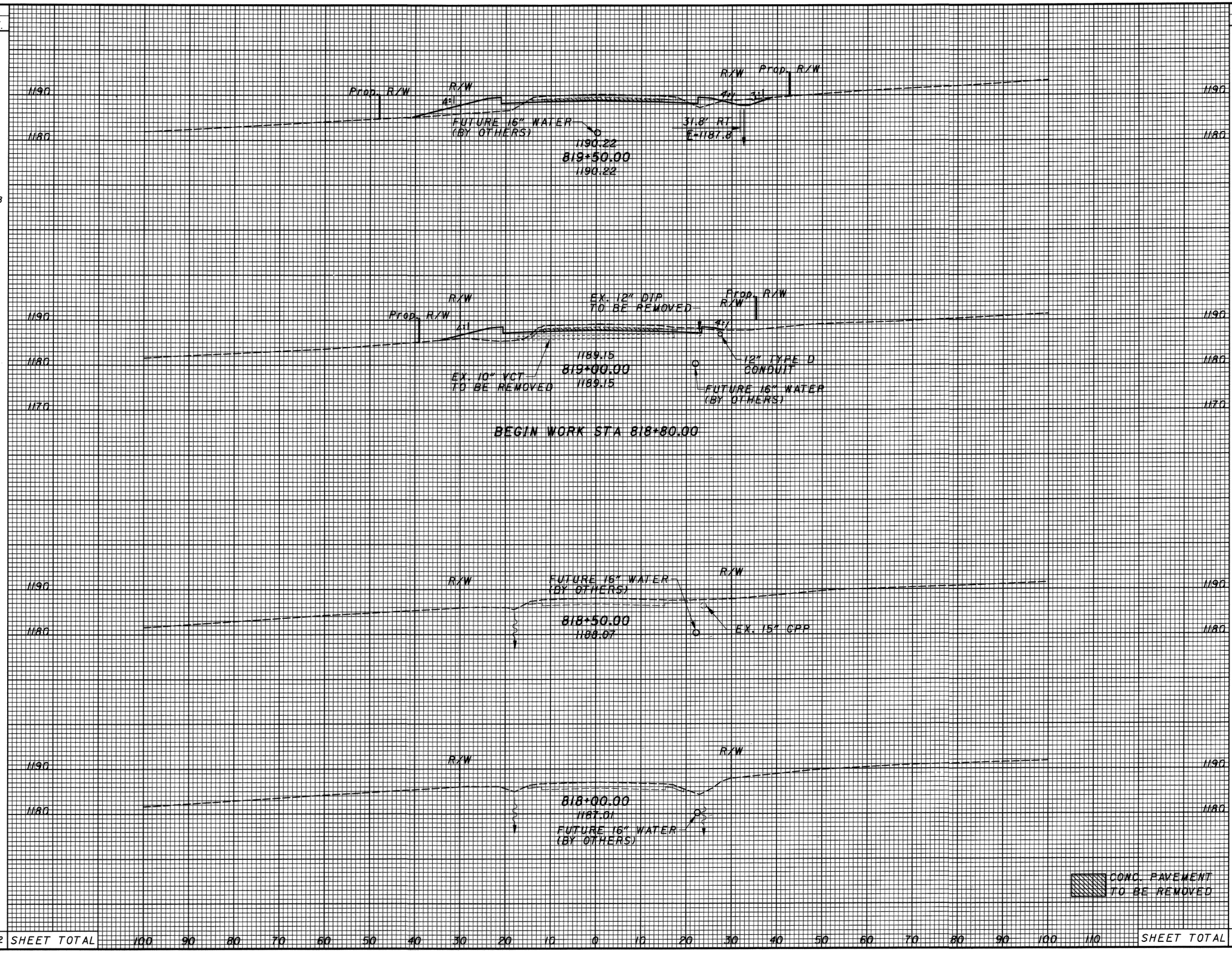
HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED BBD
CHECKED JDP

PLAN AND PROFILE S.R. 94
STA. 1053+00.00 TO STA. 1057+00.00

MED-94-15.82

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SEEDING	
END WIDTH	SQ. YDS.
41	
	178
23	
	64
0	
	242



END AREA		VOLUME	
CUT	FILL	CUT	FILL
54	48		
		93	75
47	33		
		44	31
0	0		
		137	106

CALCULATED BBD
CHECKED JBP

CROSS SECTIONS S.R. 94
STA. 818+00.00 TO STA. 819+50.00

MED-94-15.82

34
101

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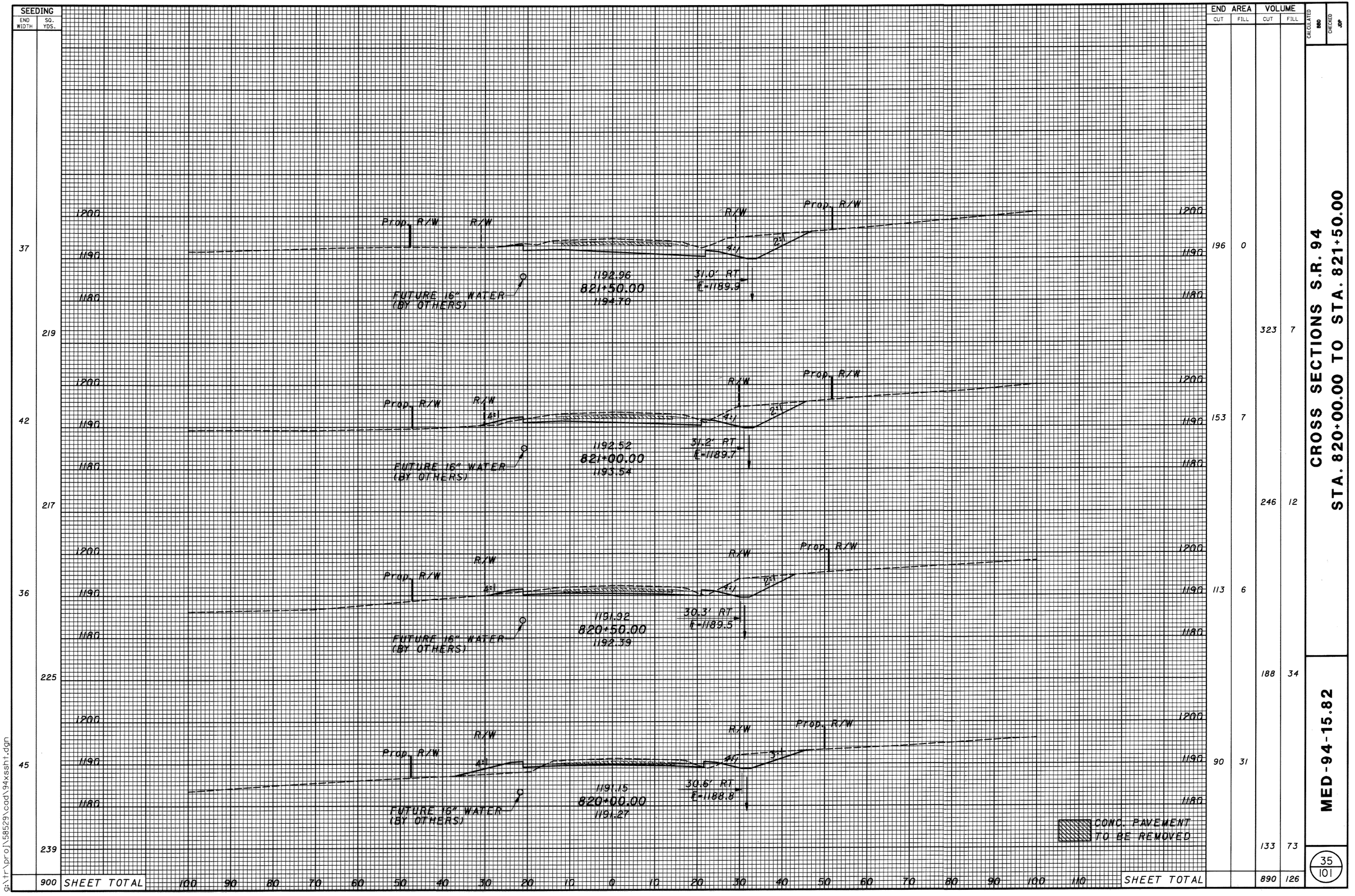
SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
37	219	196	0	323	7
42	217	153	7	246	12
36	225	113	6	188	34
45	239	90	31	133	73
	900			890	126

CALCULATED BBD
CHECKED JDP

CROSS SECTIONS S.R. 94
STA. 820+00.00 TO STA. 821+50.00

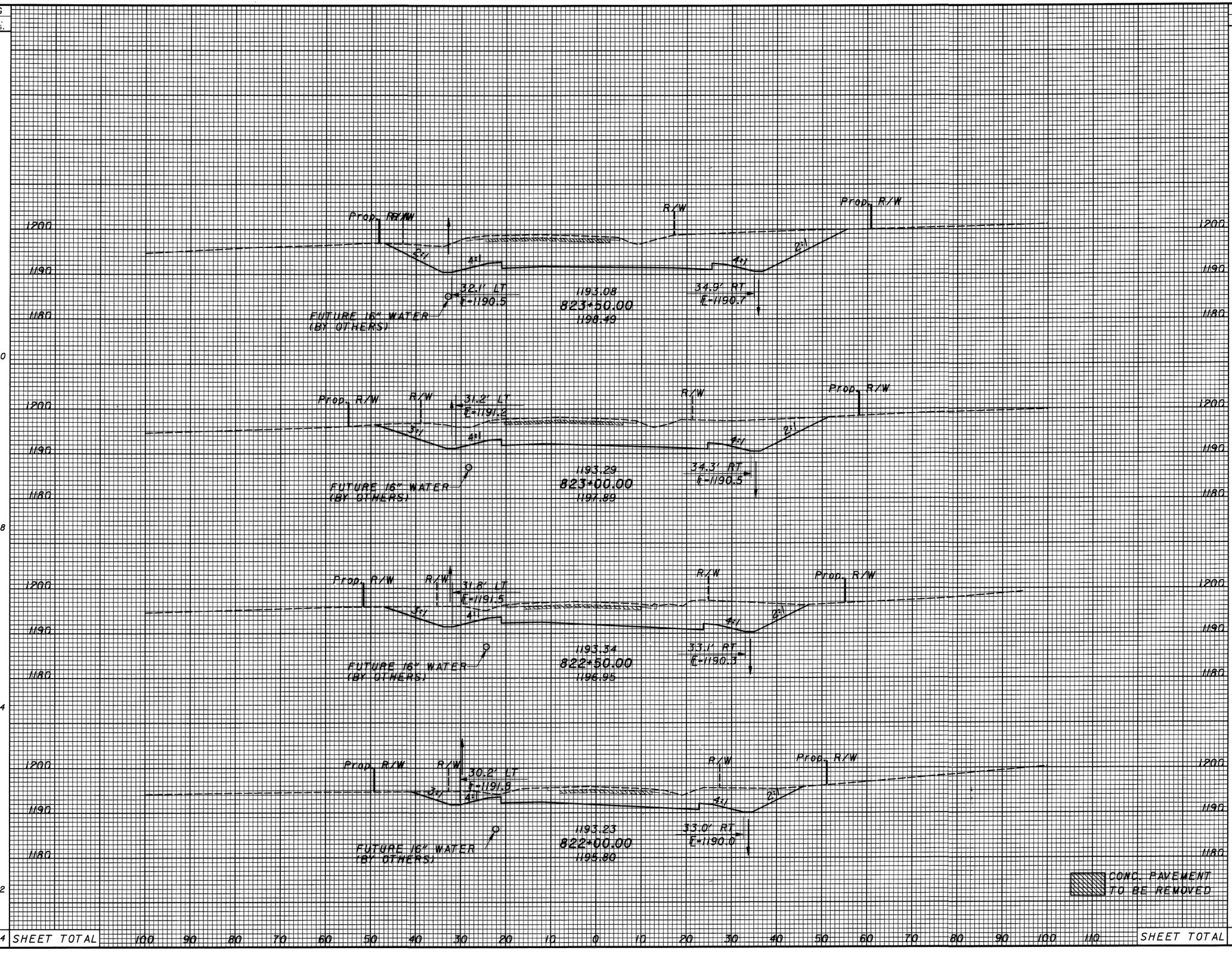
MED-94-15.82

35
101



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SEEDING	
END WIDTH	SQ. YDS.
64	
	350
62	
	328
56	
	294
50	
	242
	1214 SHEET TOTAL



END AREA		VOLUME	
CUT	FILL	CUT	FILL
613	0		
		1018	0
487	0		
		820	0
399	0		
		623	0
274	0		
		435	0
		2896	0
	SHEET TOTAL		

CALCULATED BBD
CHECKED JDP

CROSS SECTIONS S.R. 94
STA. 822+00.00 TO STA. 823+50.00

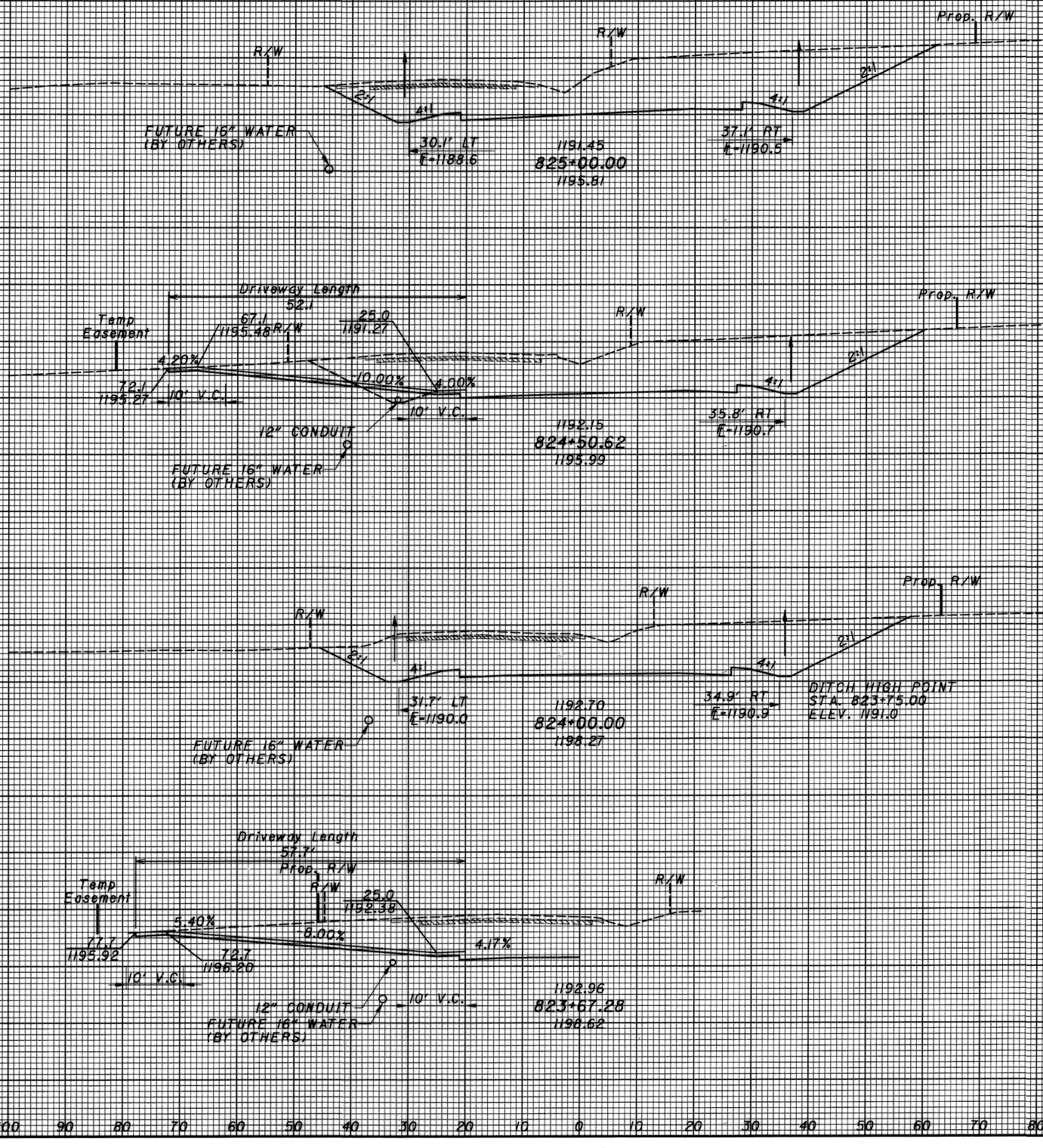
MED-94-15.82

36
101

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
67	294	736	0	1404	0
40	292	799	0	1401	0
64	116	695	0	647	0
0	61	372	0	315	0
	763 SHEET TOTAL			3767	0

CALCULATED BBO
CHECKED JDP



CROSS SECTIONS S.R. 94
STA. 823+67.28 TO STA. 825+00.00

MED-94-15.82

37/101

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SEEDING	
END WIDTH	SQ. YDS.
63	308
48	300
60	350
66	369
	1327

END AREA		VOLUME	
CUT	FILL	CUT	FILL
176	58		
		434	65
292	12		
		734	11
501	0		
		1085	0
672	0		
		1303	0
		3556	76

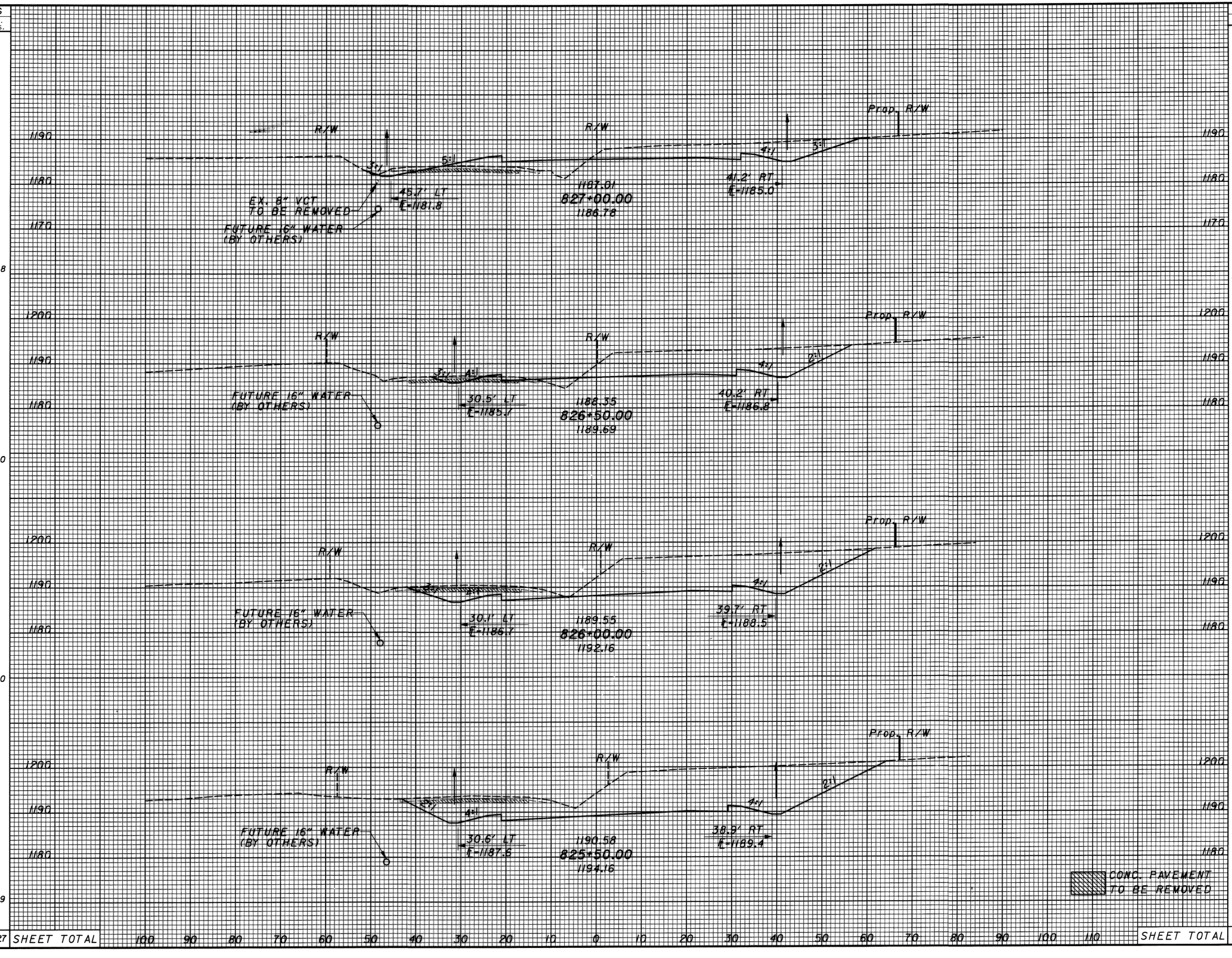
CALCULATED BBD

CHECKED JDP

CROSS SECTIONS S.R. 94
STA. 825+50.00 TO STA. 827+00.00

MED-94-15.82

38/101



g:\tr\proj\58529\cad\94xssht.dgn

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
74	372	361	198	558	351
60	242	181			
117	161	335			
0	40	5	334	5	134
49	311	12	152		
	840 SHEET TOTAL			174	195
				898	1015

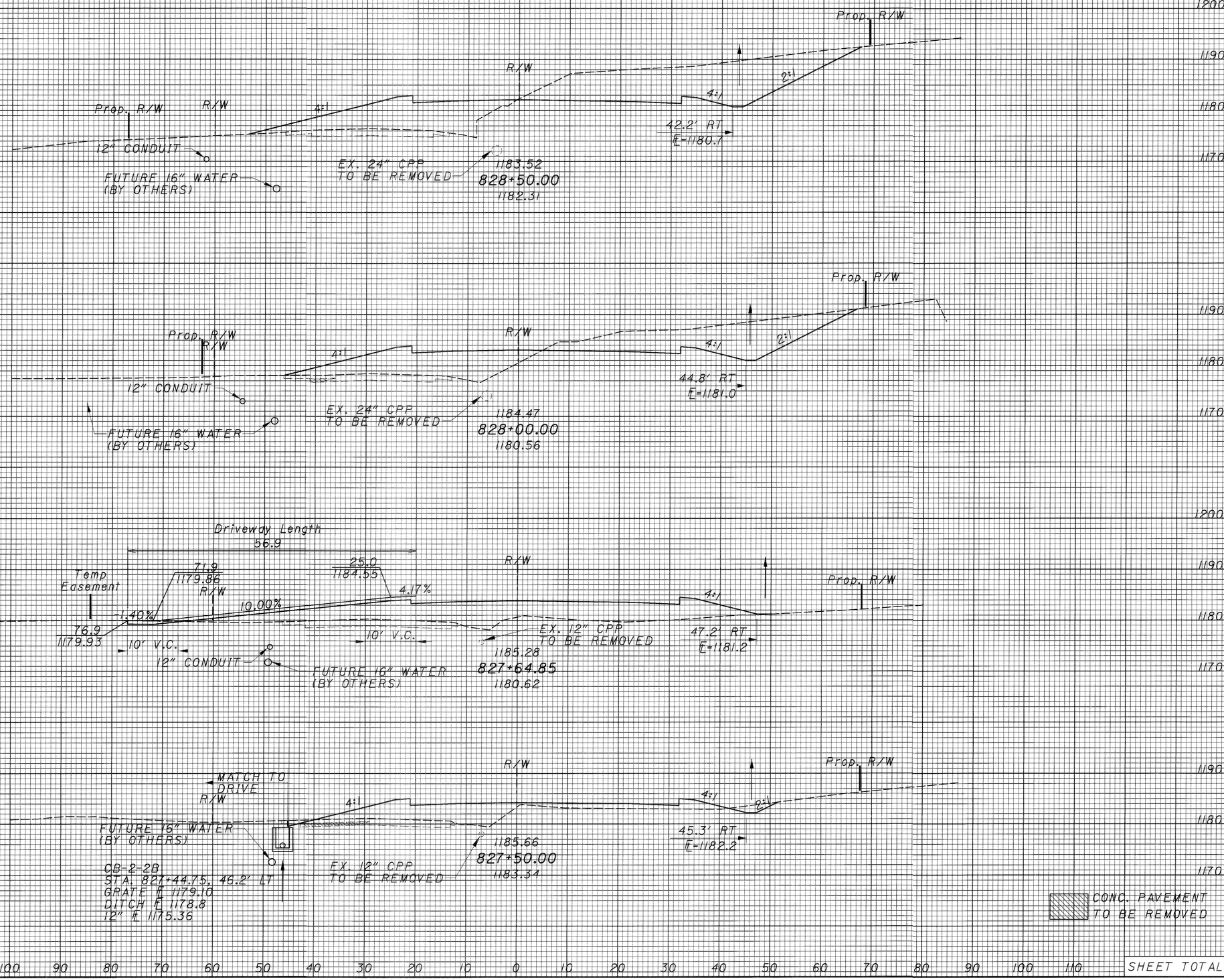
CALCULATED BBD

CHECKED JDP

CROSS SECTIONS S.R. 94 STA. 827+50.00 TO STA. 828+50.00

MED-94-15.82

39 / 101



G:\TRProj\58529\CAD\94xssht.dgn

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
95		27	823		
	514			60	1344
90		37	629		
	494			270	854
88		255	294		
	450			570	456
	1458 SHEET TOTAL			900	2654

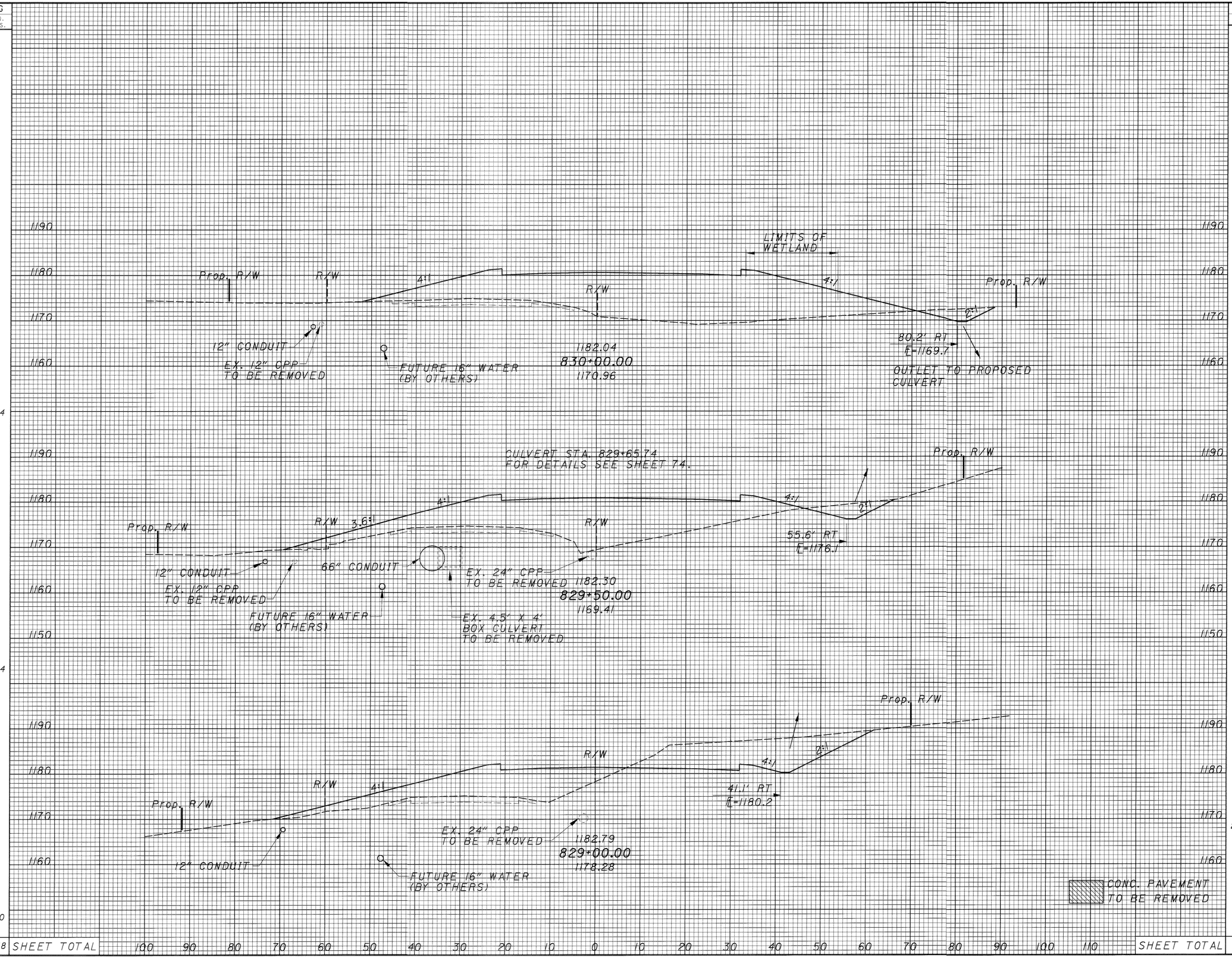
CALCULATED BBD

CHECKED JDP

CROSS SECTIONS S.R. 94
STA. 829+00.00 TO STA. 830+00.00

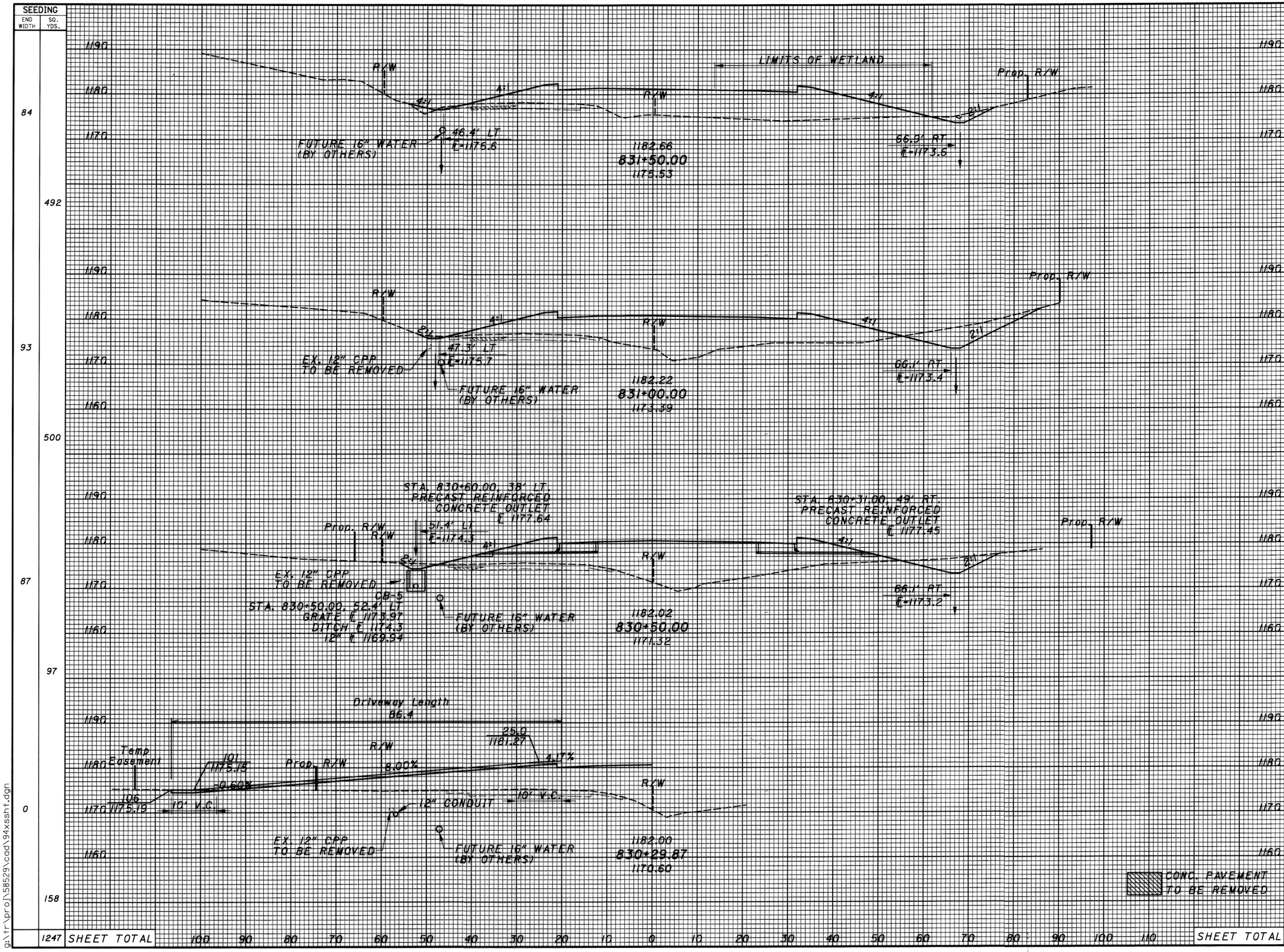
MED-94-15.82

40
101



G:\TRVProj\58529\CAD\94xssht.dgn

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
84	492	15	463	84	896
93	500	76	504	113	994
87	97	46	570	19	345
0	158	6	356	19	652
	1247 SHEET TOTAL			235	2887 SHEET TOTAL



CALCULATED BBD
CHECKED JDP

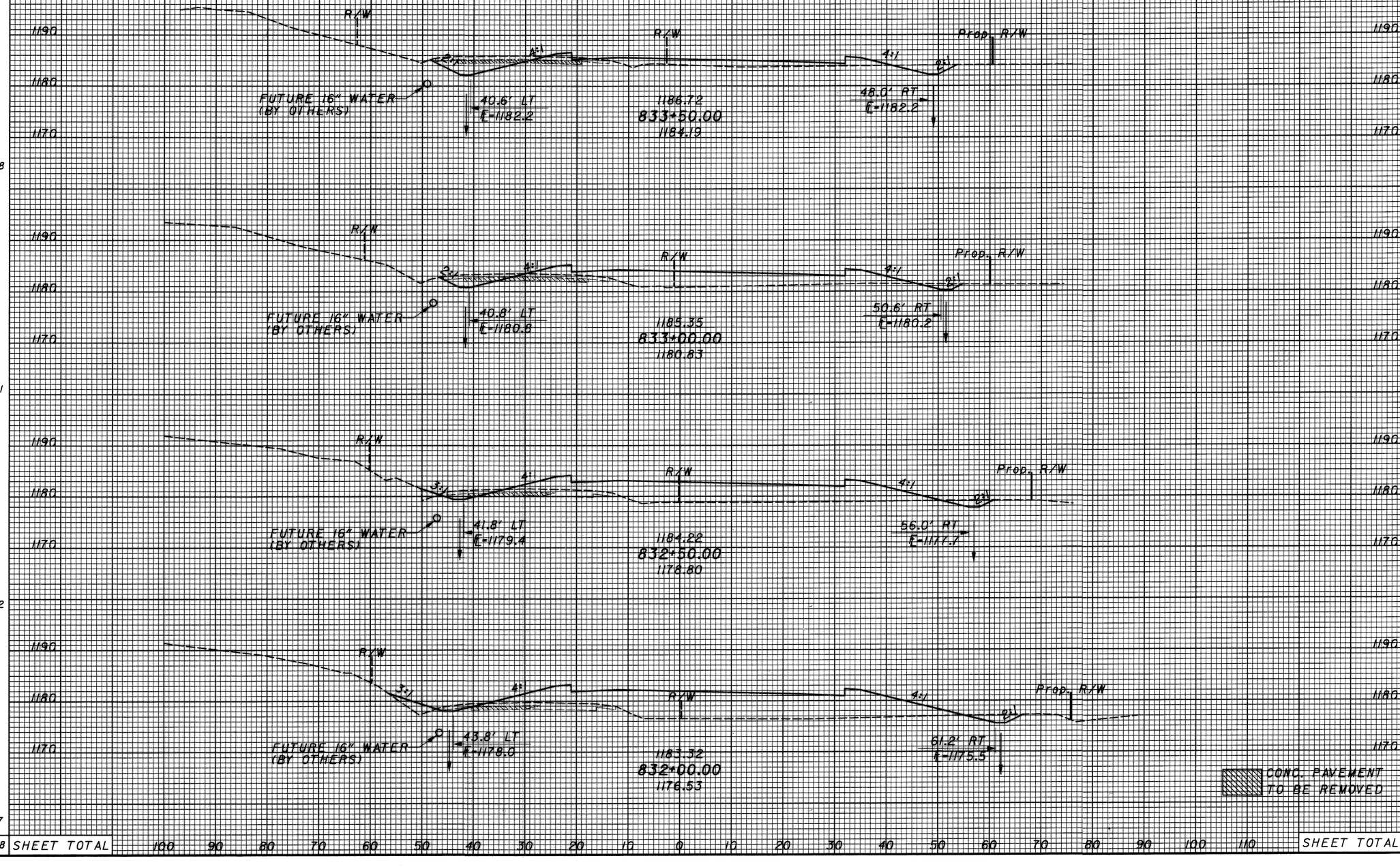
CROSS SECTIONS S.R. 94
STA. 830+29.87 TO STA. 831+50.00

MED-94-15.82

41
101

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SEEDING END WIDTH	SEEDING SQ. YDS.
56	308
55	331
64	392
77	447
	1478



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
60	61	84	200
30	155	49	371
22	246	37	559
18	358	30	761
		200	1891

SHEET TOTAL

CALCULATED BBD

CHECKED JDP

CROSS SECTIONS S.R. 94

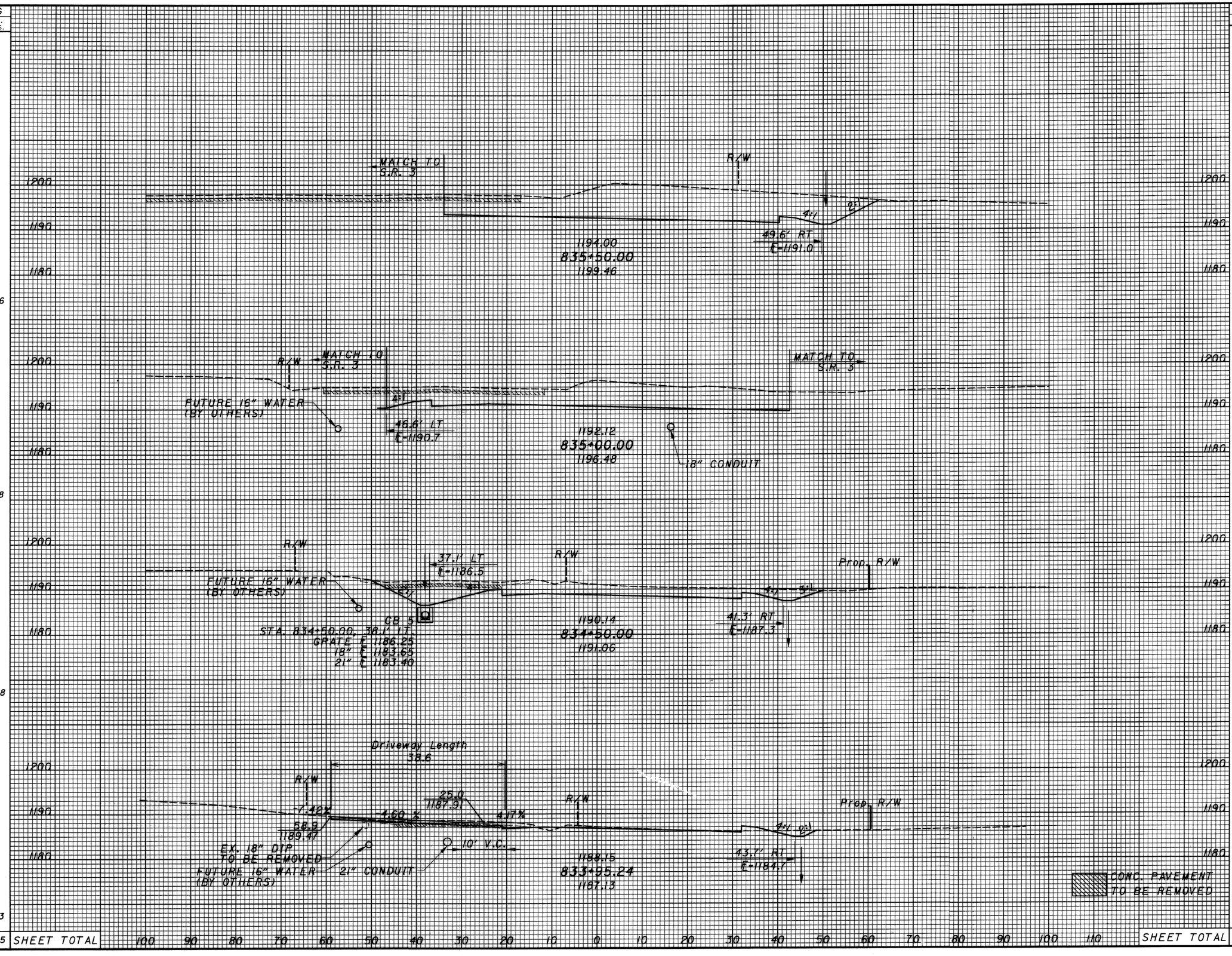
STA. 832+00.00 TO STA. 833+50.00

MED-94-15.82

42/101

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
28		555	0		
	106			881	0
10		397	0		
	178			596	0
54		247	0		
	228			301	6
21		50	6		
	193			92	57
	705 SHEET TOTAL			1870	63



CALCULATED BBD
CHECKED JDP

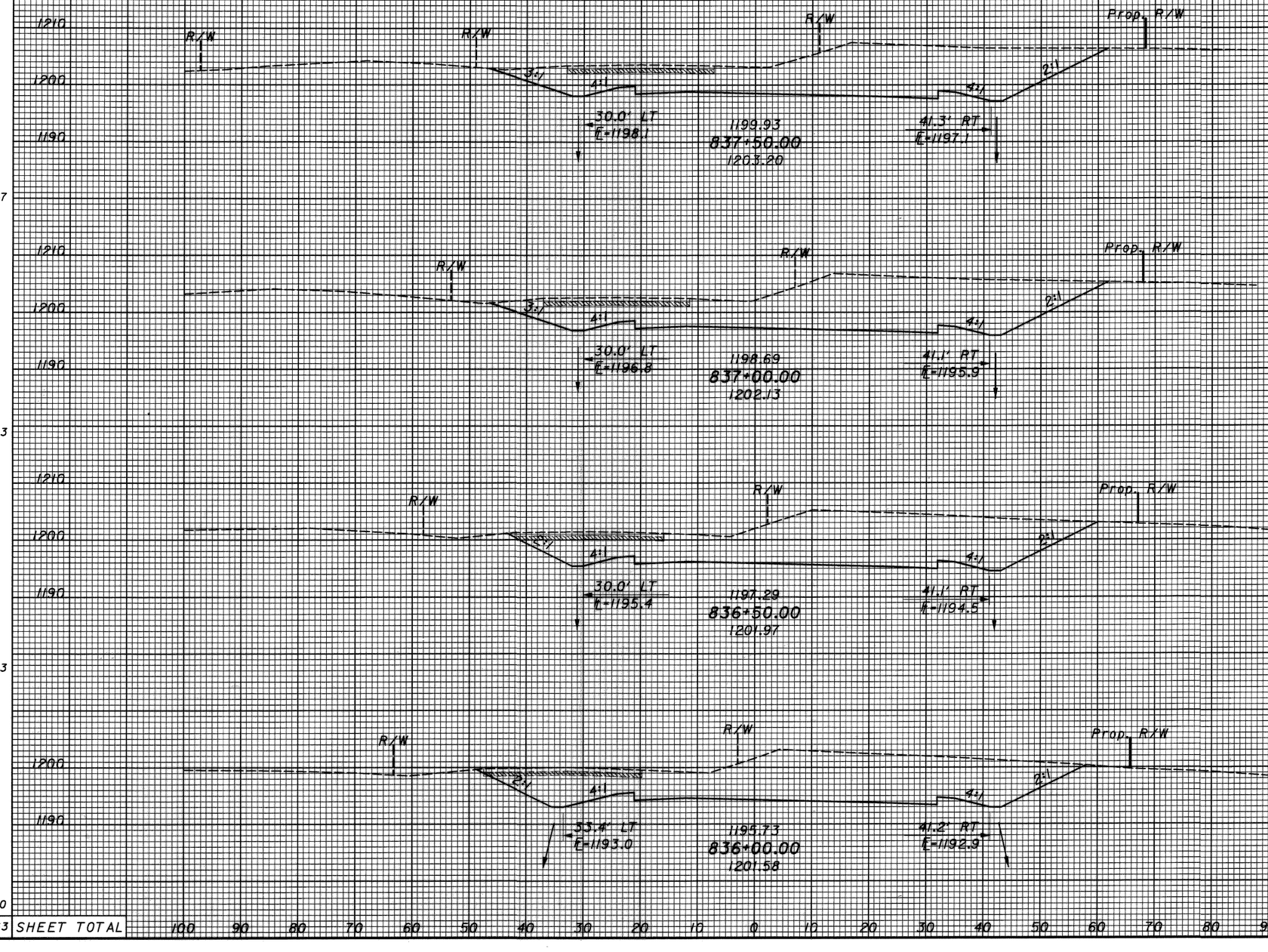
CROSS SECTIONS S.R. 94
STA. 833+95.24 TO STA. 835+50.00

MED-94-15.82

43
101

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
63	347	626	0	1201	0
62	333	670	0	1231	0
58	333	659	0	1224	0
62	250	663	0	1128	0
SHEET TOTAL 1263				4784	0



CALCULATED BBD
CHECKED JDP

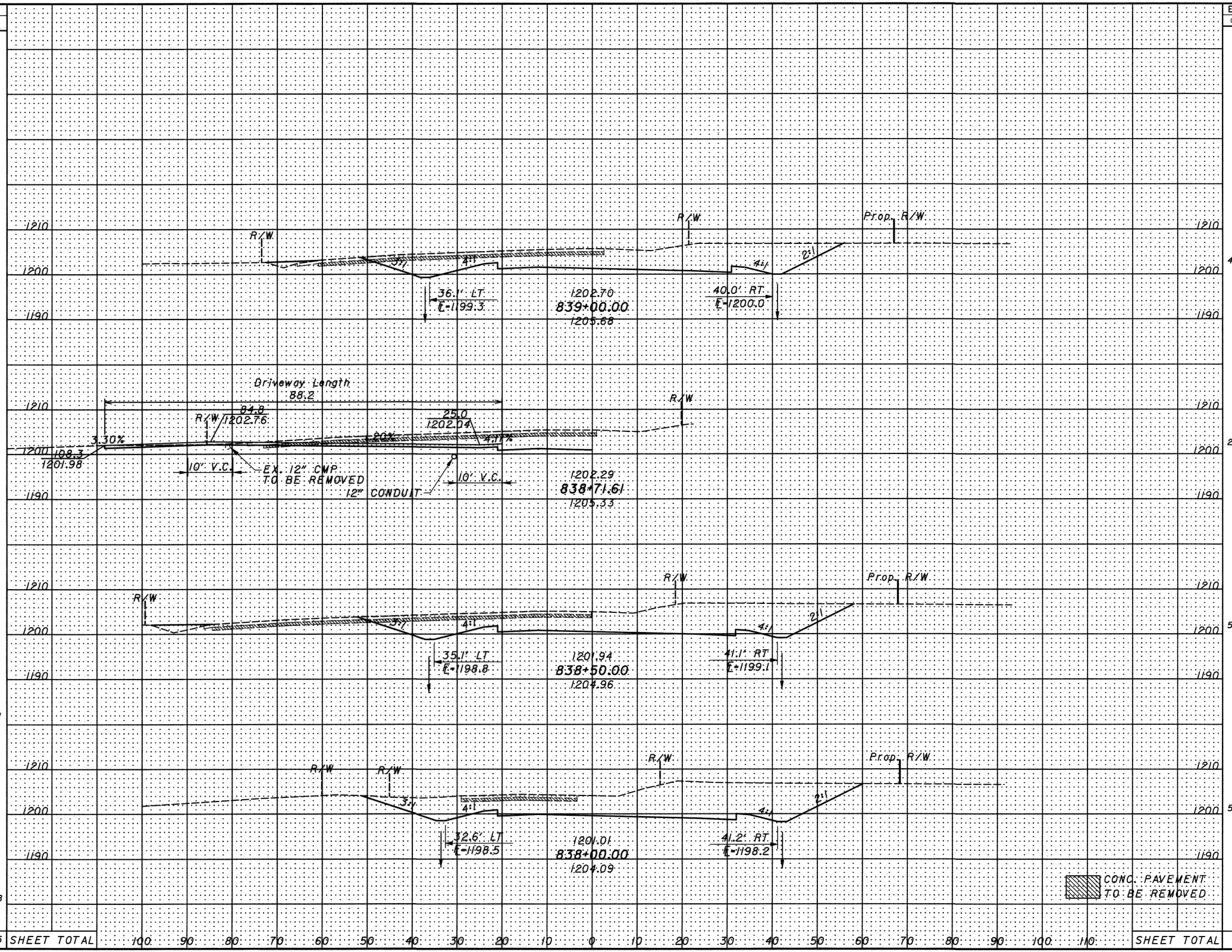
CROSS SECTIONS S.R. 94
STA. 836+00.00 TO STA. 837+50.00

MED-94-15.82

44
101

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SEEDING	
END WIDTH	SQ. YDS.
63	99
0	
64	361
66	358
	895 SHEET TOTAL



END AREA		VOLUME	
CUT	FILL	CUT	FILL
460	4		
		360	4
225	0		
		298	11
520	12		
		1012	11
574	0		
		1111	0
		2781	26

CALCULATED BBD
CHECKED JDP

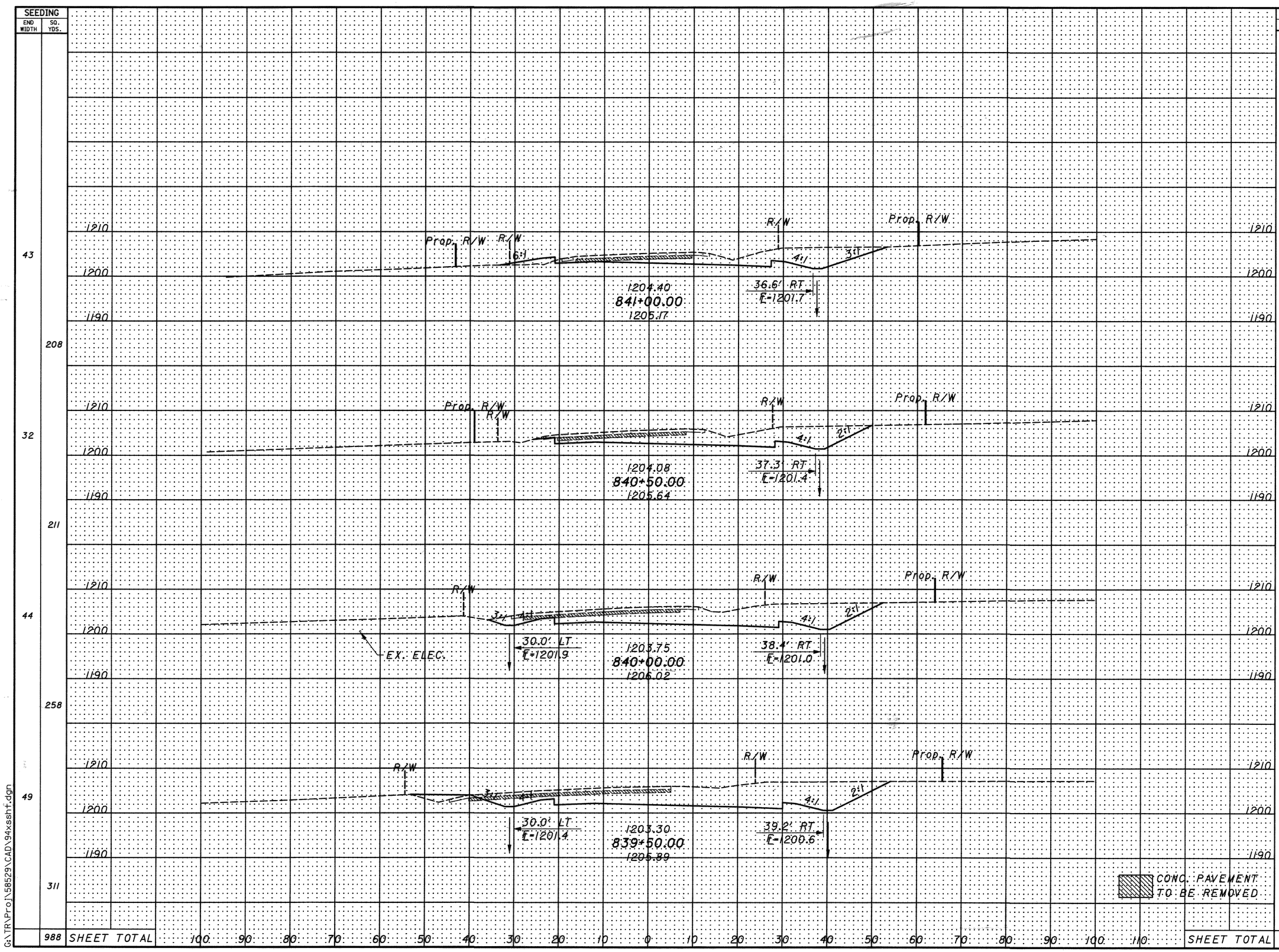
CROSS SECTIONS S.R. 94
STA. 838+00.00 TO STA. 839+00.00

MED-94-15.82

45/101

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SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
43	208	174	10	357	9
32	211	211	0	466	0
44	258	292	0	602	9
49	311	358	10	758	13
	988	SHEET TOTAL		2183	31



CALCULATED BBD
CHECKED JDP

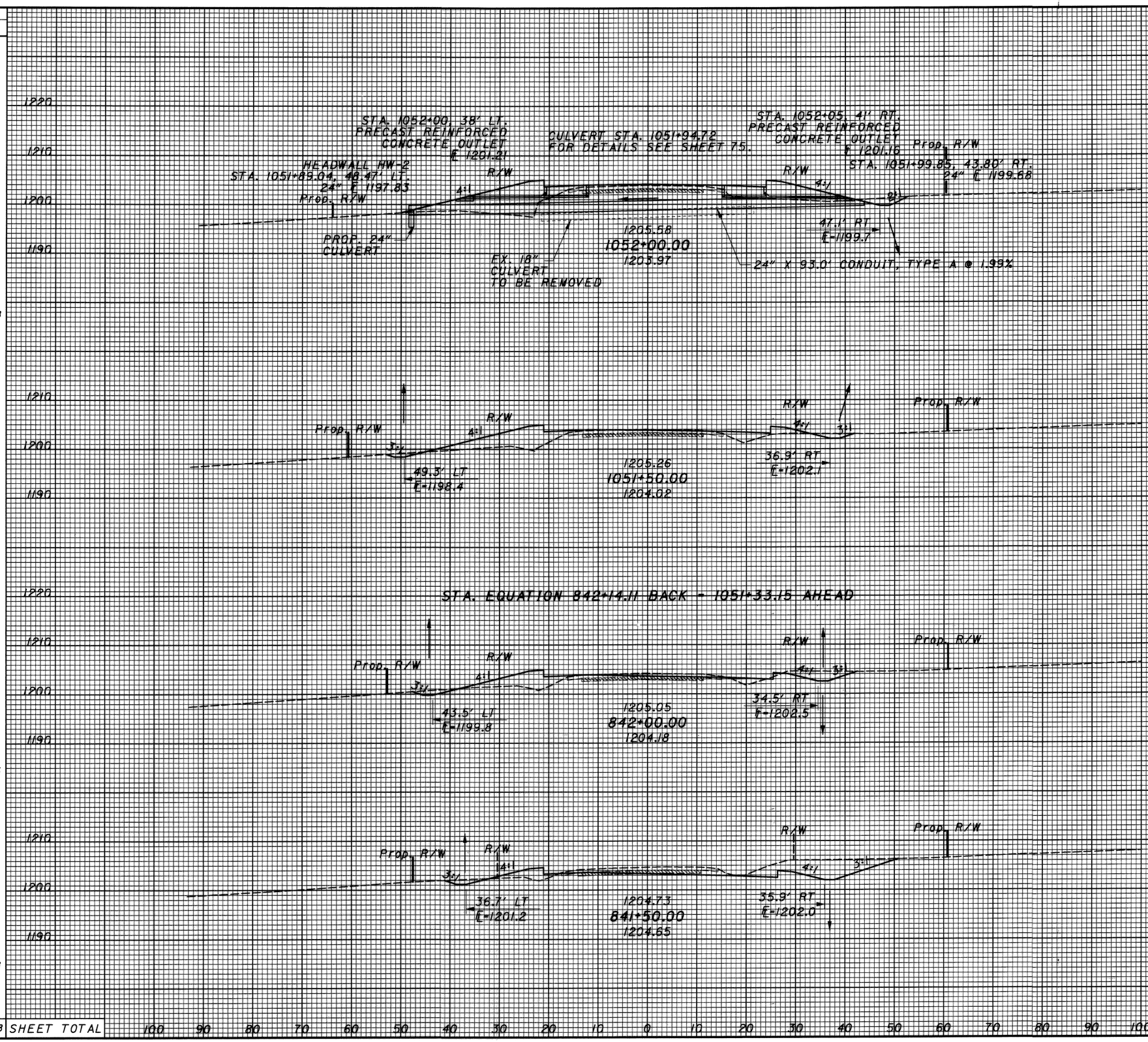
CROSS SECTIONS S.R. 94
STA. 839+50.00 TO STA. 841+00.00

MED-94-15.82

46
101

G:\TR\Proj\58529\CAD\94xssht.dgn

SEEDING	
END WIDTH	SQ. YDS.
64	328
54	177
49	275
50	258
	1038



END AREA		VOLUME	
CUT	FILL	CUT	FILL
10	179		
		20	245
12	85		
		27	74
36	45		
		143	56
118	16		
		270	24
SHEET TOTAL		460	399

CONC. PAVEMENT TO BE REMOVED

CALCULATED BBD

CHECKED JDP

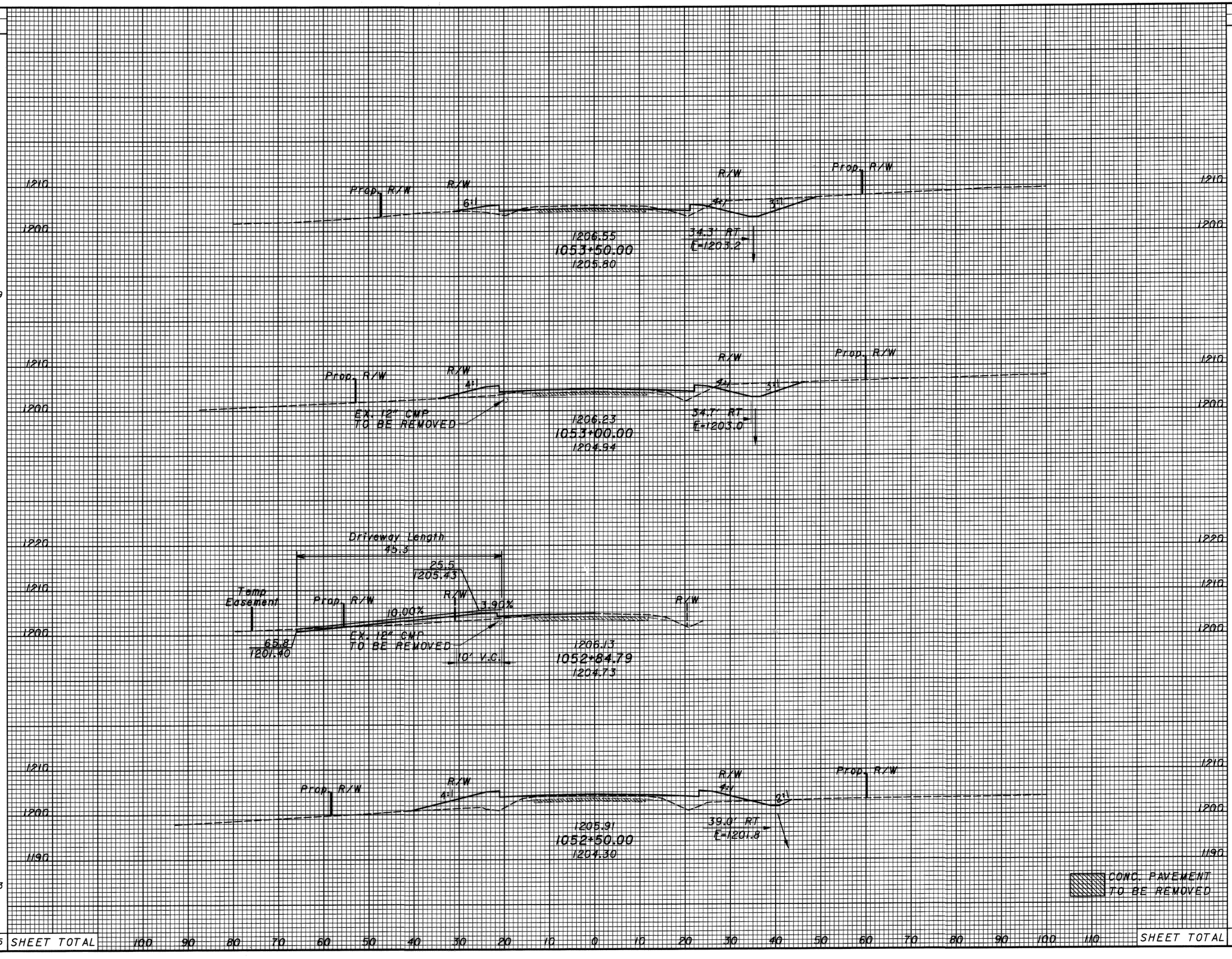
CROSS SECTIONS S.R. 94
STA. 841+50.00 TO STA. 1052+00.00

MED-94-15.82

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101

g:\tr\proj\58529\cad\94xssht.dgn

SEEDING	
END WIDTH	SQ. YDS.
	43
	239
	43
	36
	0
	87
	45
	303
	665



END AREA		VOLUME	
CUT	FILL	CUT	FILL
71	21		
		100	51
36	35		
		11	19
4	31		
		7	80
7	93		
		15	253
		133	403
SHEET TOTAL			

CALCULATED BBD
CHECKED JPP

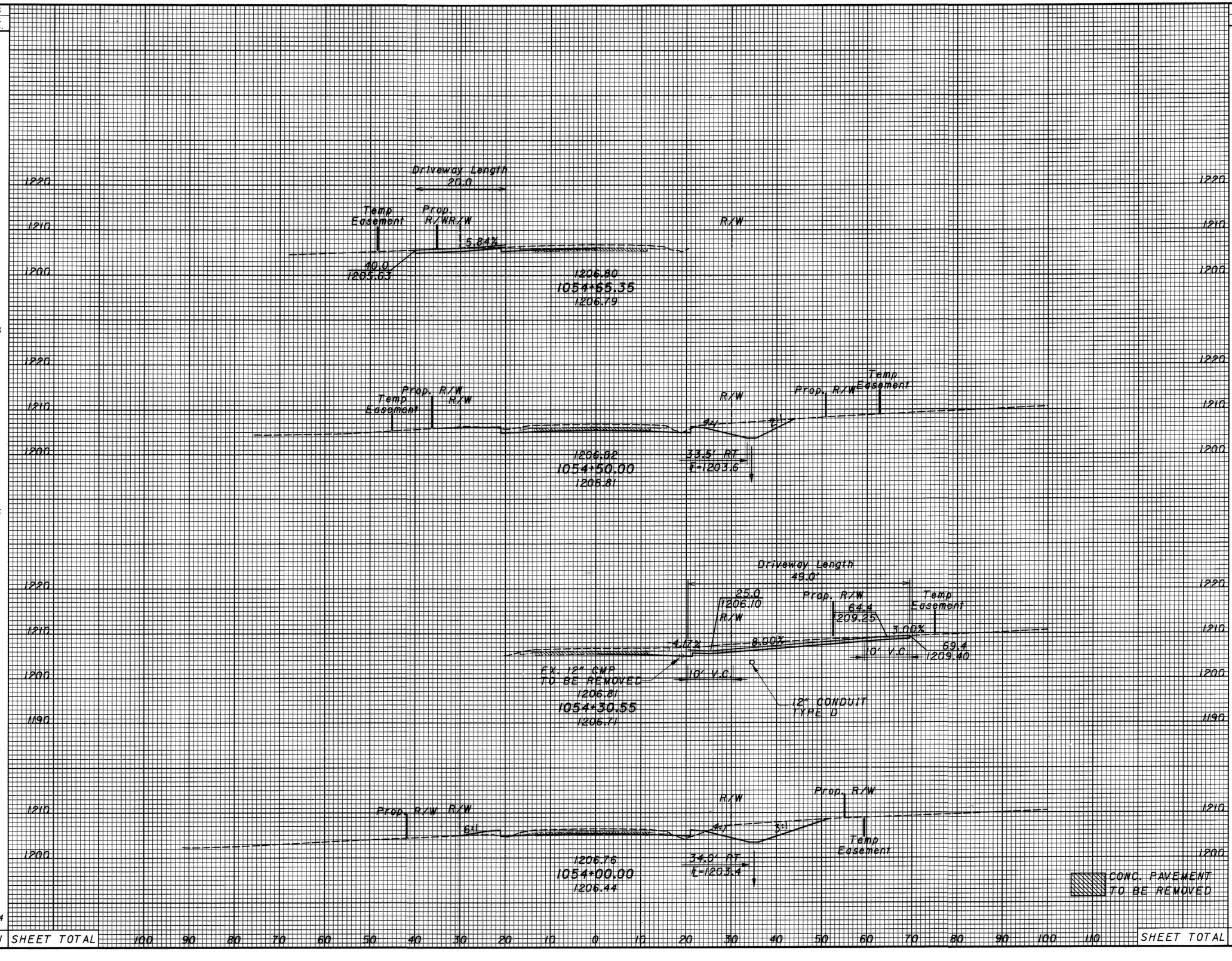
CROSS SECTIONS S.R. 94
STA. 1052+50.00 TO STA. 1053+50.00

MED-94-15.82

48
101

g:\tr\proj\58529\cad\94xssht.dgn

SEEDING	
END WIDTH	SQ. YDS.
0	
	36
42	
	45
0	
	76
45	
	244
	401



END AREA		VOLUME	
CUT	FILL	CUT	FILL
32	0		
		37	0
98	0		
		69	0
95	0		
		110	5
100	9		
		159	28
		375	33

SHEET TOTAL

SHEET TOTAL

CALCULATED BBD

CHECKED JDP

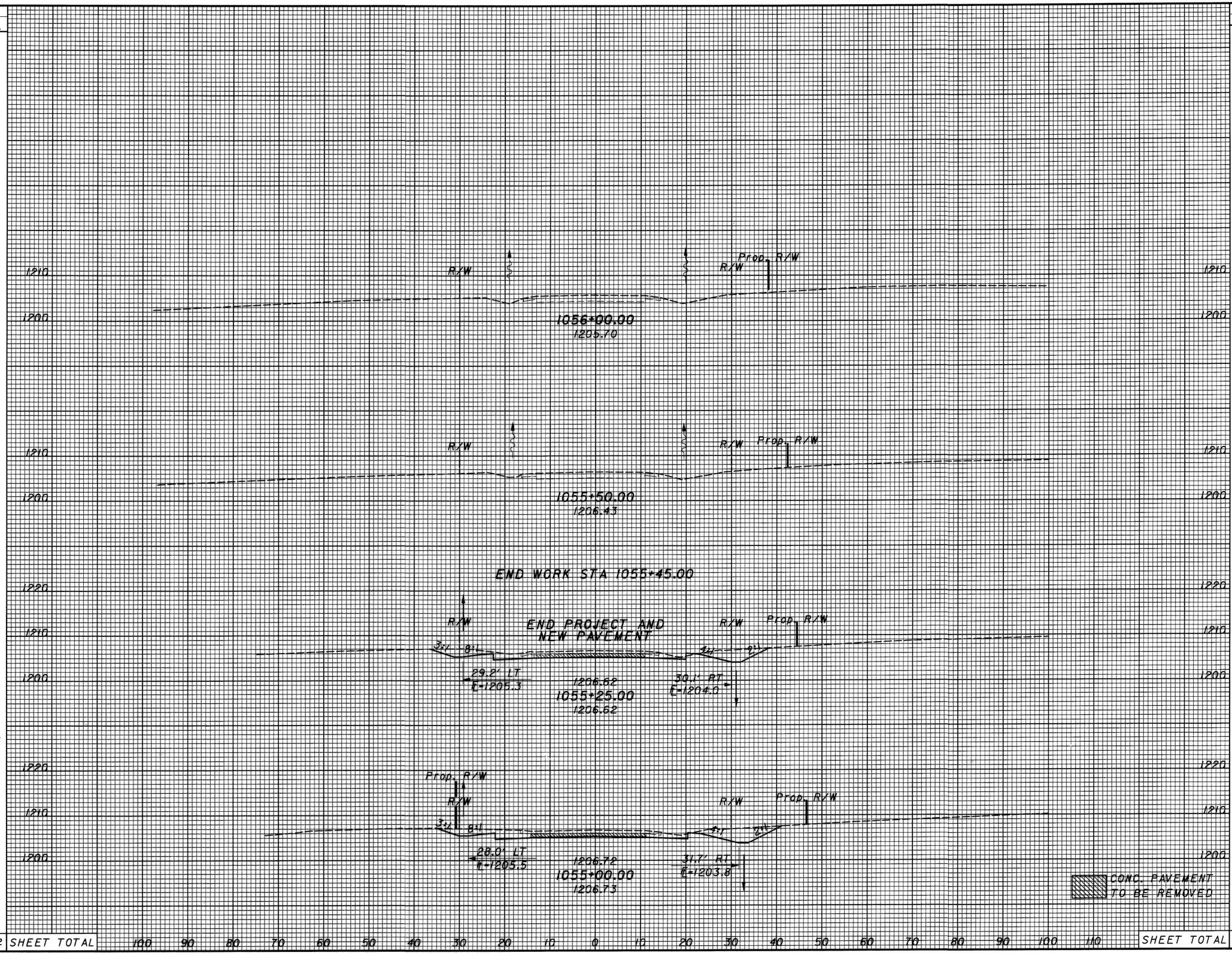
CROSS SECTIONS S.R. 94
STA. 1054+00.00 TO STA. 1054+65.35

MED-94-15.82

49
101

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SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0		0	0		
	51			45	1
	37			98	1
	106			98	0
	39			113	0
	75			93	0
	232			236	1
	SHEET TOTAL				SHEET TOTAL



CALCULATED BBD

CHECKED JDP

CROSS SECTIONS S.R. 94
STA. 1055+00.00 TO STA. 1056+00.00

MED-94-15.82

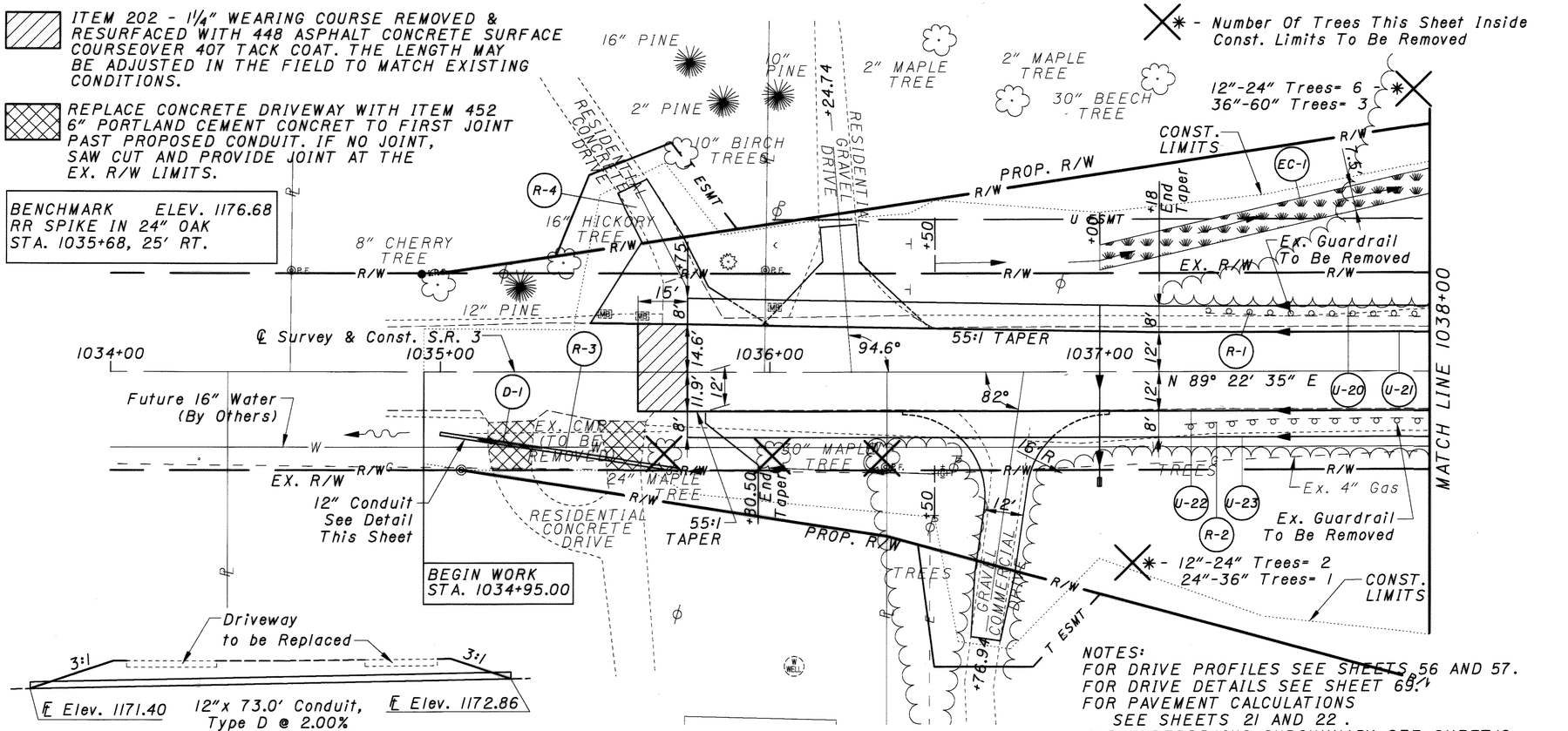
50
101

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ITEM 202 - 1¼" WEARING COURSE REMOVED & RESURFACED WITH 448 ASPHALT CONCRETE SURFACE COURSEOVER 407 TACK COAT. THE LENGTH MAY BE ADJUSTED IN THE FIELD TO MATCH EXISTING CONDITIONS.

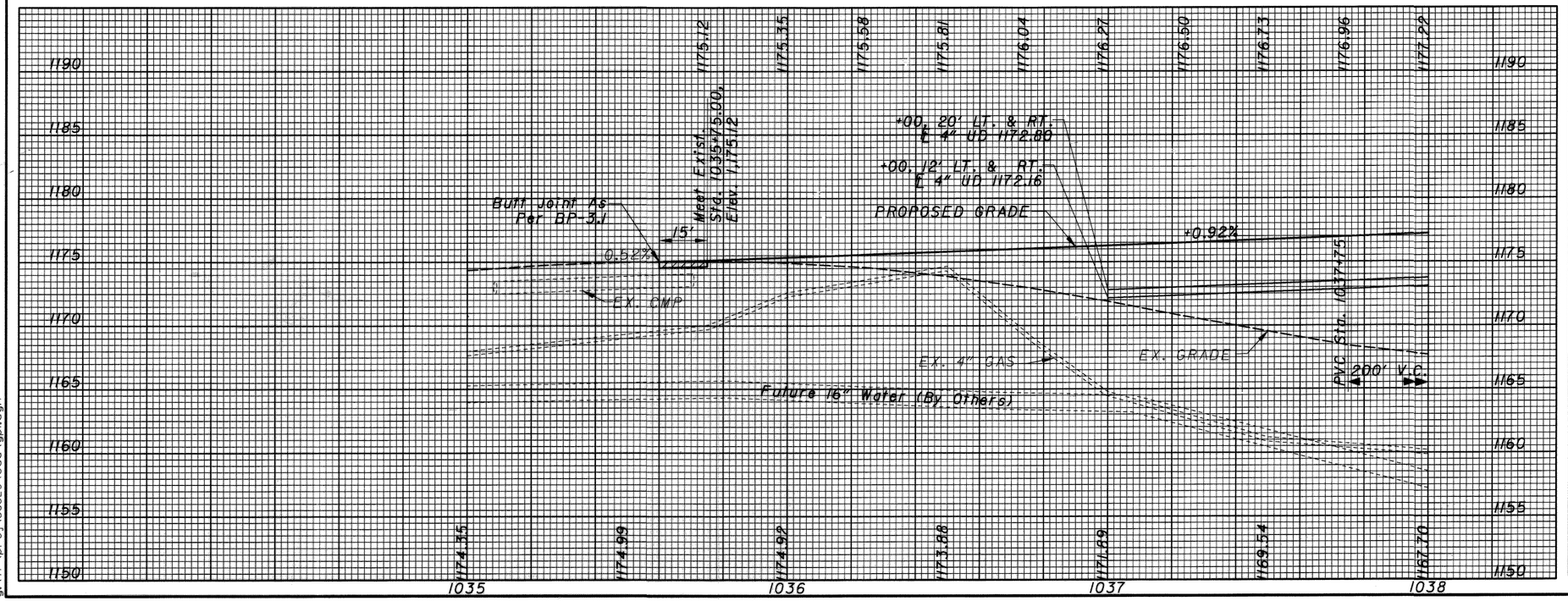
REPLACE CONCRETE DRIVEWAY WITH ITEM 452 6" PORTLAND CEMENT CONCRET TO FIRST JOINT PAST PROPOSED CONDUIT. IF NO JOINT, SAW CUT AND PROVIDE JOINT AT THE EX. R/W LIMITS.

BENCHMARK ELEV. 1176.68
RR SPIKE IN 24" OAK
STA. 1035+68, 25' RT.



✳ - Number Of Trees This Sheet Inside Const. Limits To Be Removed

NOTES:
FOR DRIVE PROFILES SEE SHEETS 56 AND 57.
FOR DRIVE DETAILS SEE SHEET 69.
FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19.



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24" AND UNDER LIN FT	202 GUARDRAIL REMOVED LIN FT	202 PAVEMENT REMOVED S.Y.	452 6" NON-REINFORCED CONCRETE PAVEMENT S.Y.	603 12" CONDUIT, TYPE D LIN FT	670 DITCH EROSION PROTECTION SY
EC-1	1037+00.00	1039+50.00	LT						212
R-1	1037+32.18	1039+97.23	LT		265			73	
R-2	1037+25.82	1039+88.55	RT		263				
R-3	1035+08.78	1035+70.43	RT	62		34			
R-4	1035+53.00	1035+78.00	LT						
D-1	1035+00.00	1035+72.18	RT			42	42		
TOTALS CARRIED TO GENERAL SUMMARY				62	528	76		73	212

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED BBD
CHECKED JDP

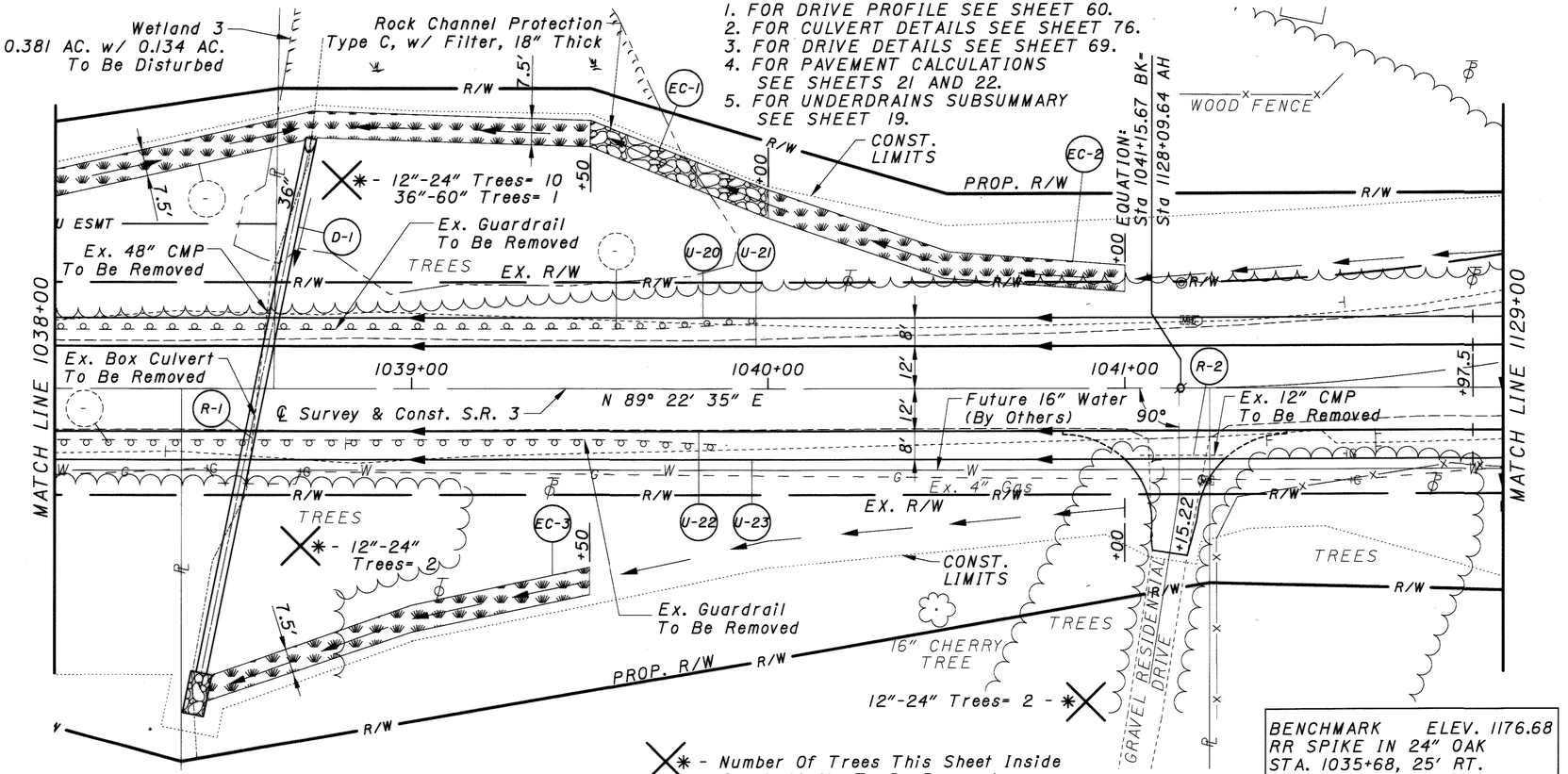
PLAN AND PROFILE S.R. 3
STA. 1034+00.00 TO STA. 1038+00.00

MED-94-15.82

51
101

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NOTES:
1. FOR DRIVE PROFILE SEE SHEET 60.
2. FOR CULVERT DETAILS SEE SHEET 76.
3. FOR DRIVE DETAILS SEE SHEET 69.
4. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
5. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19.

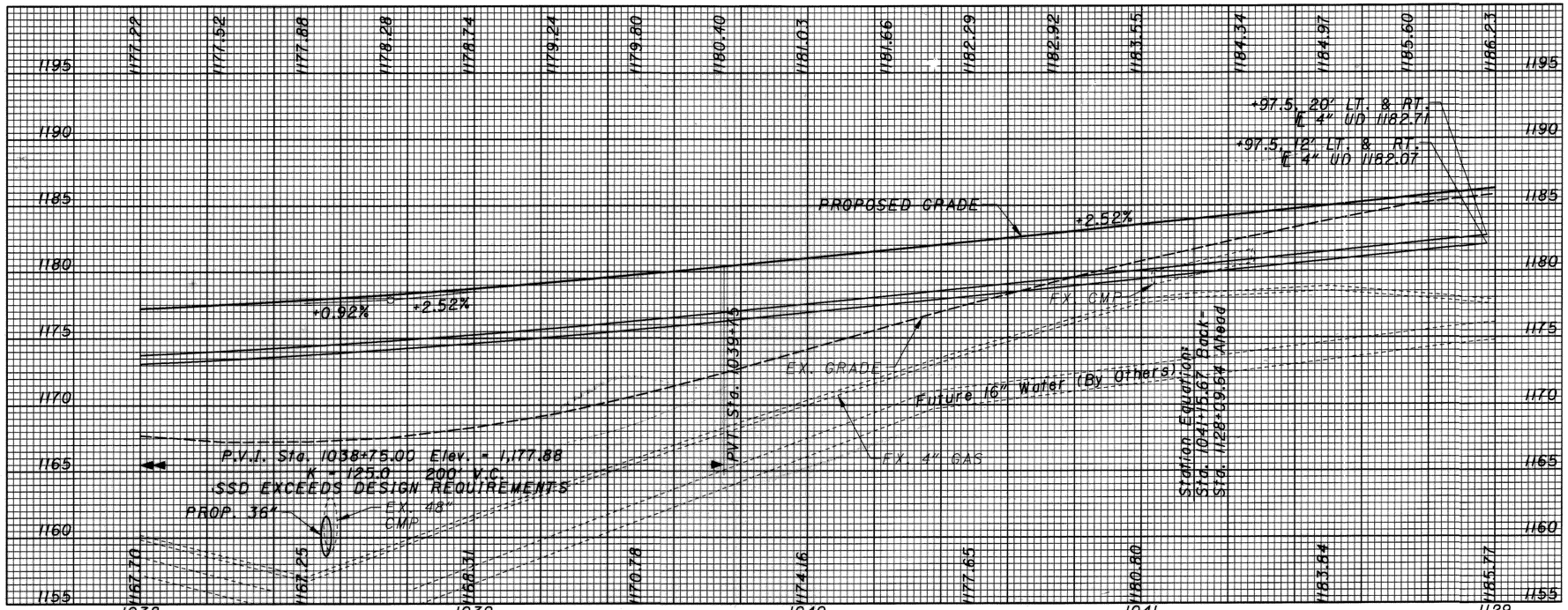


* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

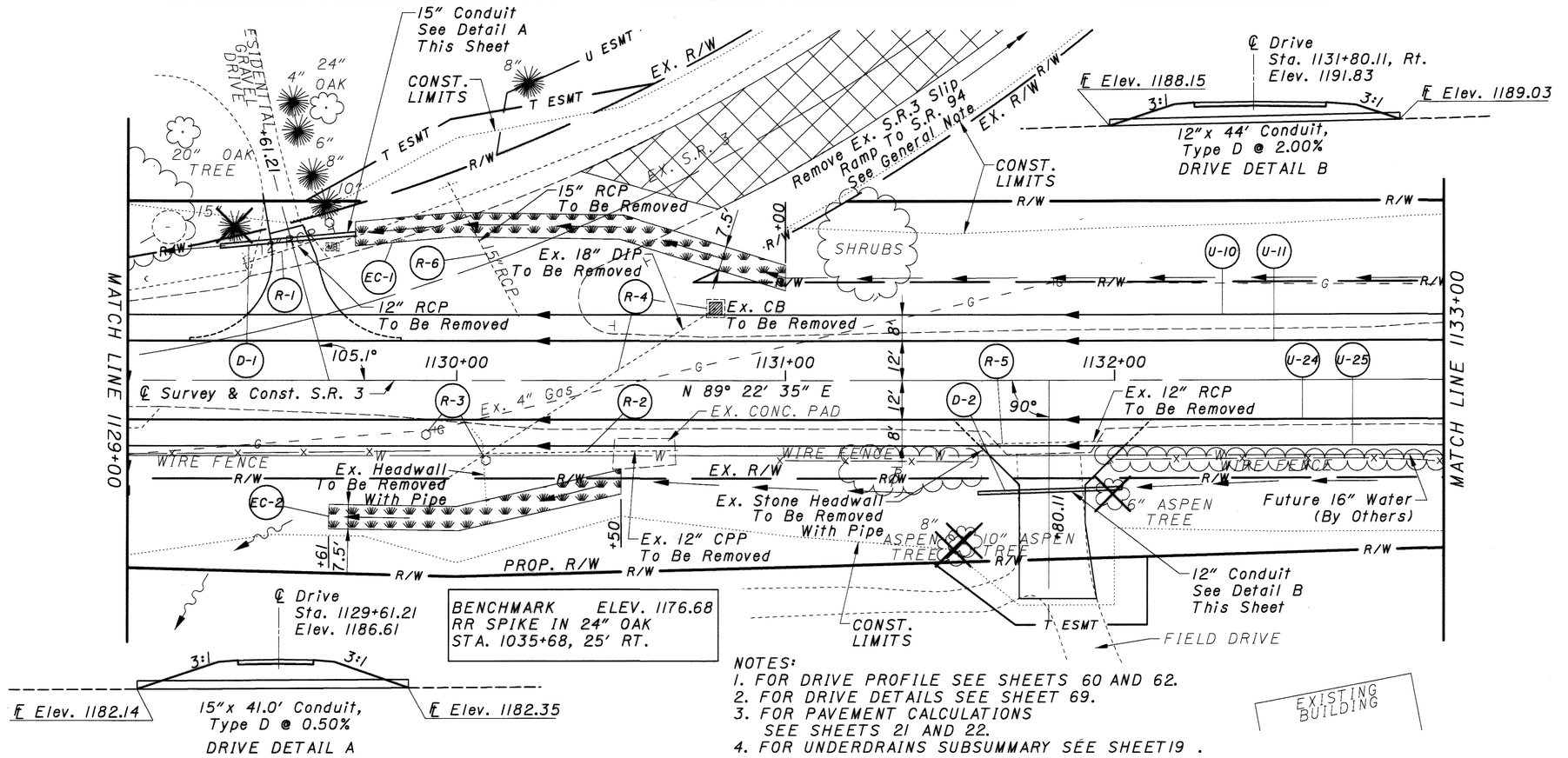
BENCHMARK ELEV. 1176.68
RR SPIKE IN 24" OAK
STA. 1035+68, 25' RT.

EROSION CONTROL CALCULATIONS:
EC-1 - 50' x 7.5' x 1.5'/ 27= 20.8 C.Y.

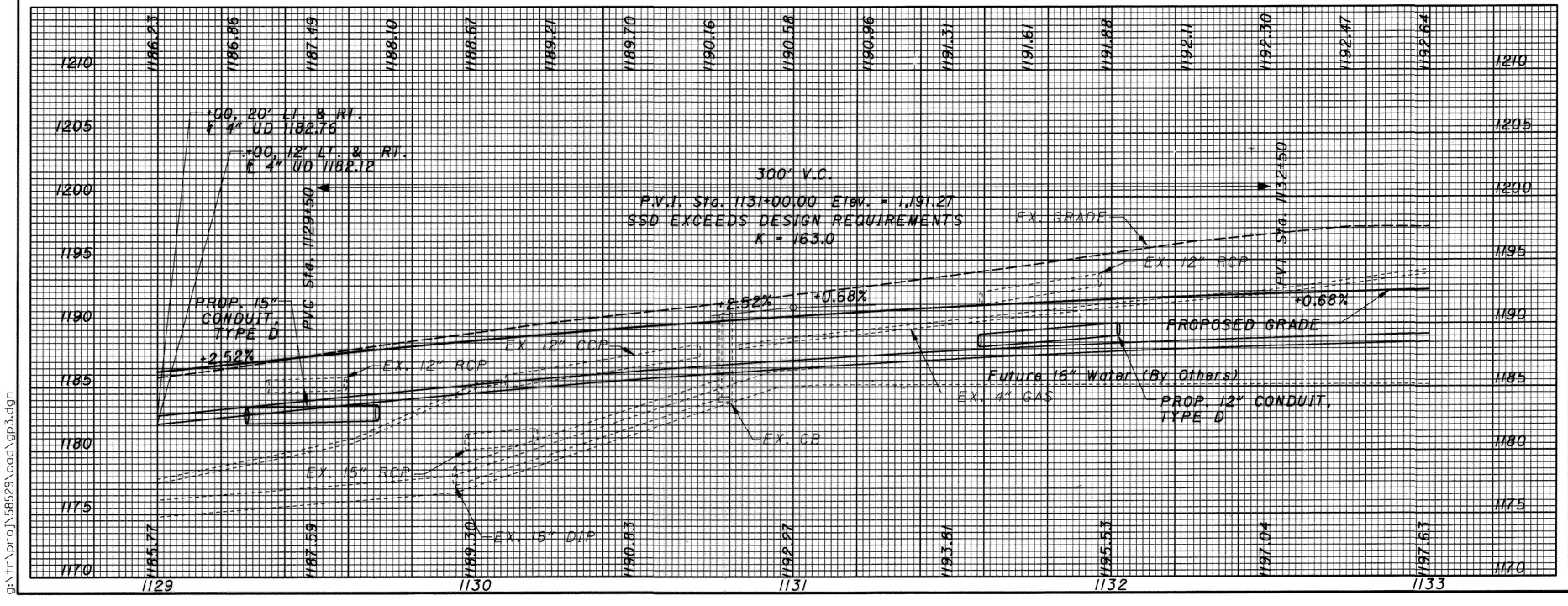
* SEE CULVERT DETAIL SHEET FOR FULL CULVERT DESCRIPTION



| REF NO. | STATION FROM | STATION TO | SIDE | 202 STRUCTURE REMOVED LUMP | 202 PIPE REMOVED, 24" AND UNDER LIN FT | | |



NOTES:
1. FOR DRIVE PROFILE SEE SHEETS 60 AND 62.
2. FOR DRIVE DETAILS SEE SHEET 69.
3. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
4. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19 .



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" AND UNDER LIN FT	202 REMOVAL MISC. POST EACH	202 CATCH BASIN REMOVED EACH	603 12" CONDUIT TYPE D LIN FT	603 15" CONDUIT TYPE D LIN FT	670 DITCH EROSION PROTECTION SY
D-1	1129+28.06	1129+69.17	LT						
D-2	1131+58.59	1132+02.23	LT						
EC-1	1129+69.17	1131+00.00	LT					41	109
EC-2	1129+61.00	1130+50.00	RT						74
R-1	1129+34.60	1129+59.10	LT	26					
R-2	1130+06.84	1130+67.33	RT	61			44		
R-3	1129+90	1130+09	RT		2				
R-4	1129+93.58	1130+78.77	LT/RT	101		1			
R-5	1131+59.02	1131+96.35	RT	37					
R-6	1129+97.23	1130+18.92	LT	47					
TOTALS CARRIED TO GENERAL SUMMARY				272	2	1	44	41	183

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JPP

PLAN AND PROFILE S.R. 3
STA. 1129+00.00 TO STA. 1133+00.00

MED-94-15.82

53
101

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NOTES:
1. FOR PIPE DETAILS SEE SHEET 43.
2. FOR INTERSECTION DETAIL SEE SHEET 70.
3. FOR S.R. 94 DETAILS SEE SHEET 30.
4. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
5. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19 .
6. FOR DRIVE PROFILE SEE SHEET 64.
7. FOR DRIVE DETAILS SEE SHEET 69.

P.I. Sta = 836+83.22
D = 10° 38′ 55″ (RT)
Dc = 1° 00′ 00″
R = 5,729.58′
T = 533.97′
L = 1,064.86′
E = 24.83′
emax = 0.025

MATCH LINE 1133+00

MATCH LINE 1137+00

Sta. 835+22.94 ℄ S.R. 94=
Sta. 1134+14.71 ℄ S.R. 3

P-1 (By others)

P-2 (By others)

CB 5

CB 5

Ex. 12″ CMP To Be Removed

Ex. 18″ CMP To Be Removed

12″ Conduit See Detail This Sheet

℄ Survey & Construction S.R. 3

℄ Survey & Const. Ledge Rd.

℄ Construction S.R. 94

CONST. LIMITS

PROP. R/W

EX. R/W

N 89° 22′ 35″ E

N 89° 24′ 19″ E

96.0°

50″ MAPLE TREE

8″ ELM TREE

12″ ASH TREE

10″ WALNUT TREE

Future 16″ Water (By Others)

✳ - 12″-24″ Trees= 1

✳ - Number Of Trees This Sheet Inside Const. Limits To Be Removed

INTERSECTION SIGHT DISTANCE EXCEEDS DESIGN REQUIREMENTS

℄ Drive
Sta. 1135+50.00
Elev. 1193.28

℄ Elev. 1190.79 — 3:1 — 3:1 — ℄ Elev. 1191.91

12″x 30.0′ Conduit, Type D @ 0.40%

BENCHMARK ELEV. 1202.19
RR SPIKE IN 24″ OAK
STA. 1142+16, 25′ LT.

10′ V.C.
P.V.I. Sta. 1133+97.65
Elev. = 1,193.49

SR 94 Sta. 835+22.94=
SR 3 Sta. 1134+14.71
Elev. 1193.01

300′ V.C.
P.V.I. Sta. 1136+50.00
Elev. = 1,194.34
SSD = 511.2′
K = 159.5

20′ V.C.
P.V.I. Sta. 1134+47.65
Elev. = 1,192.07

+72, 20′ RT.
℄ 4″ UD 1189.58

+72, 12′ RT.
℄ 4″ UD 1188.93

+46, 12′ LT.
℄ 4″ UD 1188.85

+46, 20′ LT.
℄ 4″ UD 1189.49

+85, 16′ LT.
℄ 4″ UD 1188.61

+85, 12′ LT.
℄ 4″ UD 1187.85

+59, 22.90′ LT.
℄ 4″ UD 1188.74

+52, 16.59′ RT.
℄ 4″ UD 1188.75

+59, 17.58′ LT.
℄ 4″ UD 1187.98

144 L.F. - 18″ @ 2.40%

CATCH BASIN CB-5
STA. 834+50.00, 38.11′ LT.
GRATE ELEV. 1186.25
18″ ℄ 1183.65
21″ ℄ 1183.40

CATCH BASIN CB-5
S.R. 3 STA. 1134+85.00, 27.00′ LT.=
STA. 835+42.80, 72.66′ RT.
GRATE ELEV. 1190.45
18″ ℄ 1187.11

EX. GRADE
PROPOSED GRADE
EX. 12″ CMP
EX. 18″ CMP
EX. 4″ GAS

+1.92% -2.82% +1.12 % -0.76 %

10.68%

REF NO.	STATION FROM	STATION TO	SIDE	
R-1	1135+37.79	1135+58.17	LT	
D-1	1135+34.40	1135+65.00	LT	

603	12″ CONDUIT, TYPE D	LIN FT	31
202	PIPE REMOVED 24″ AND UNDER	LIN FT	21
	TOTALS CARRIED TO GENERAL SUMMARY		21

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JDP

PLAN AND PROFILE S.R. 3 & LEDGE ROAD STA. 1133+00.00 TO STA. 1137+00.00

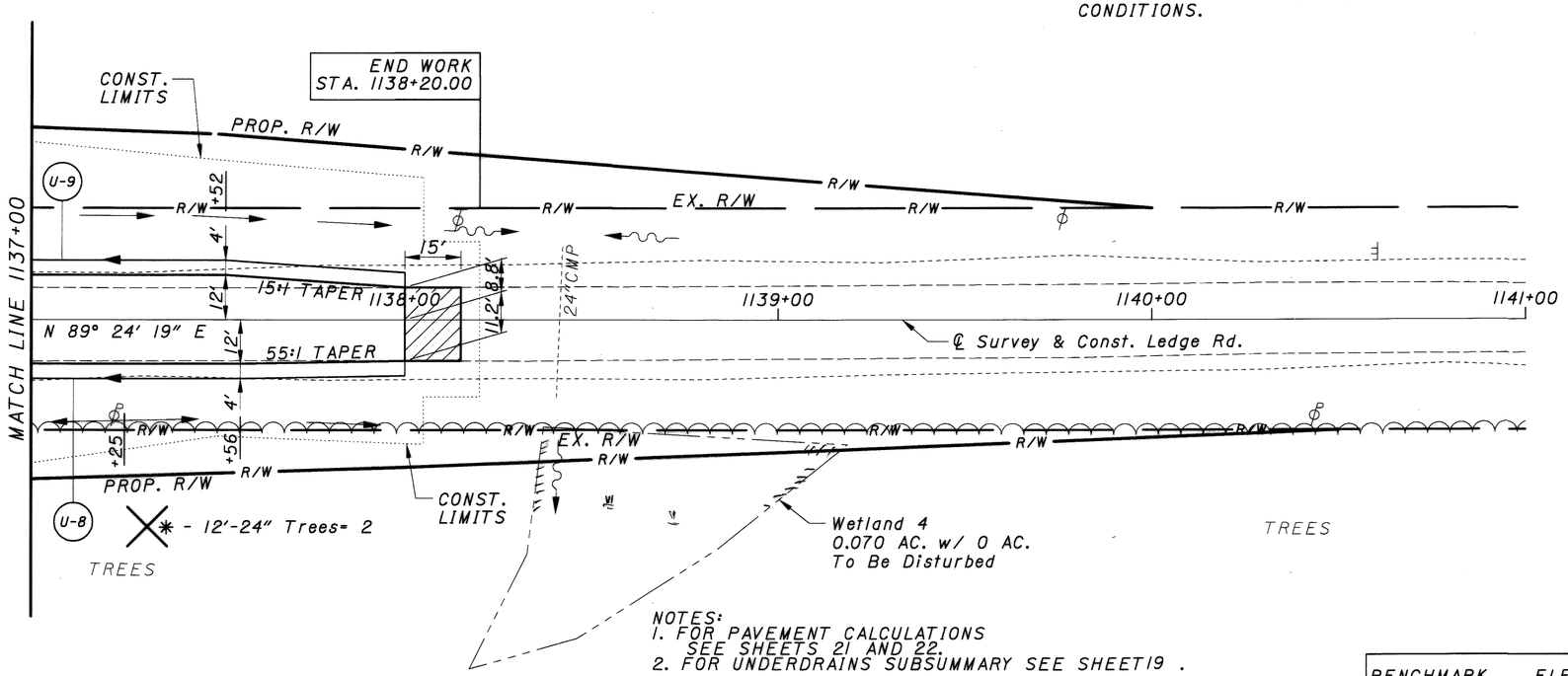
MED-94-15.82

54
101

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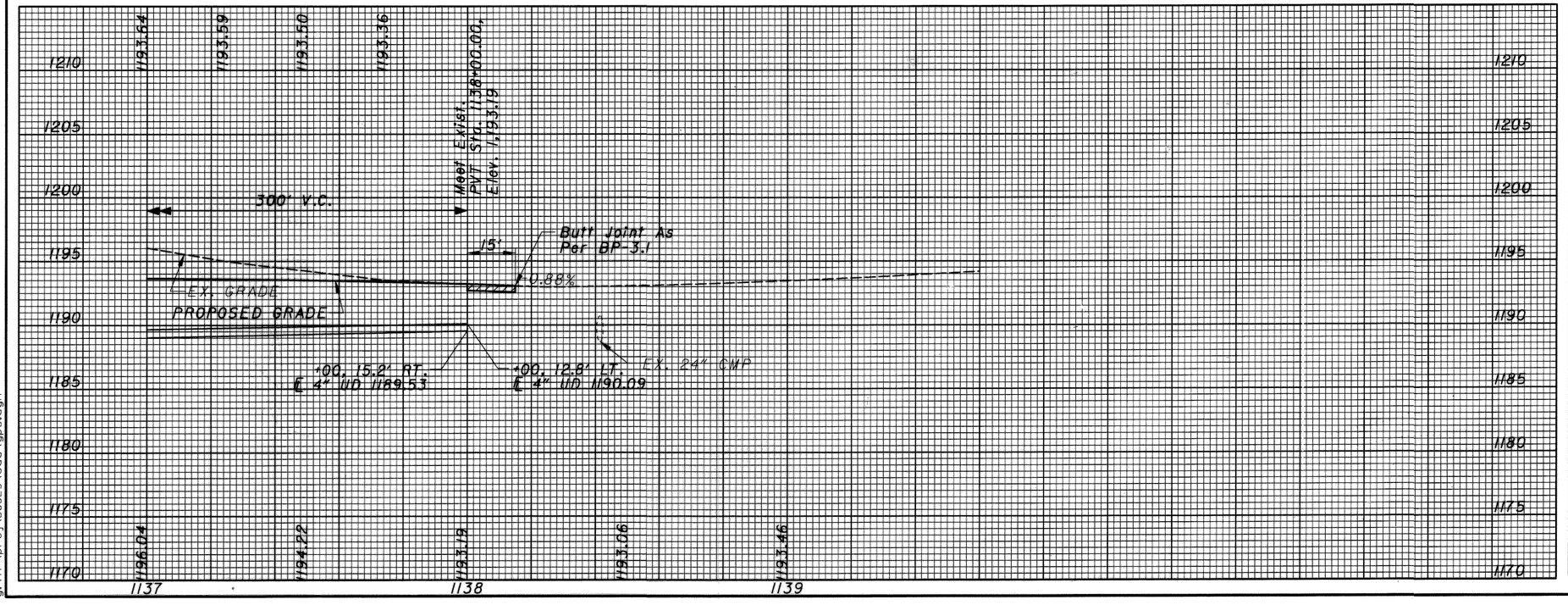
✳ - Number Of Trees This Sheet Inside Const. Limits To Be Removed

ITEM 202 - 1¼" WEARING COURSE REMOVED & RESURFACED WITH 448 ASPHALT CONCRETE SURFACE COURSE OVER 407 TACK COAT. THE LENGTH MAY BE ADJUSTED IN THE FIELD TO MATCH EXISTING CONDITIONS.



NOTES:
1. FOR PAVEMENT CALCULATIONS SEE SHEETS 21 AND 22.
2. FOR UNDERDRAINS SUBSUMMARY SEE SHEET 19 .

BENCHMARK ELEV. 1202.19
RR SPIKE IN 24" OAK
STA. 1142+16, 25' LT.



REF NO.	STATION FROM	STATION TO	SIDE

TOTALS CARRIED TO GENERAL SUMMARY

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JDP

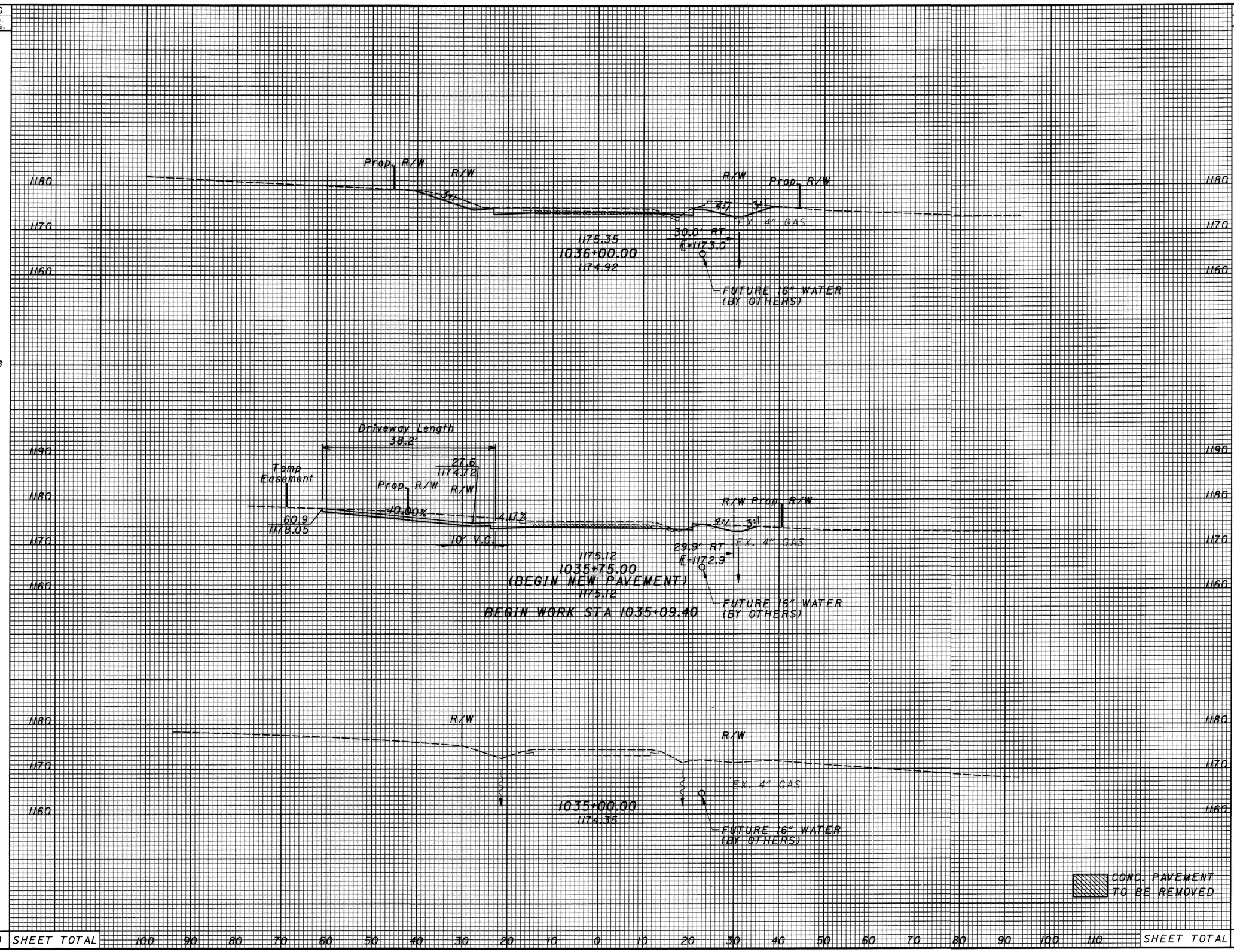
PLAN AND PROFILE LEDGE ROAD STA. 1137+00.00 TO STA. 1141+00.00

MED-94-15.82

55
101

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SEEDING	
END WIDTH	SQ. YDS.
37	
	78
19	
78	SHEET TOTAL



END AREA		VOLUME	
CUT	FILL	CUT	FILL
94	1		
		103	1
129	1		
		103	1

CALCULATED BBD
CHECKED JDP

CROSS SECTIONS S.R. 3
STA. 1035+00.00 TO STA. 1036+00.00

MED-94-15.82

56
101

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SEEDING	
END WIDTH	SQ. YDS.
66	
	85
0	
	84
56	
79	
0	
	51
	299

END AREA		VOLUME	
CUT	FILL	CUT	FILL
28	262		
		15	146
8	79		
		64	51
121	23		
		70	11
29	0		
		56	0
		205	208

CALCULATED BBD

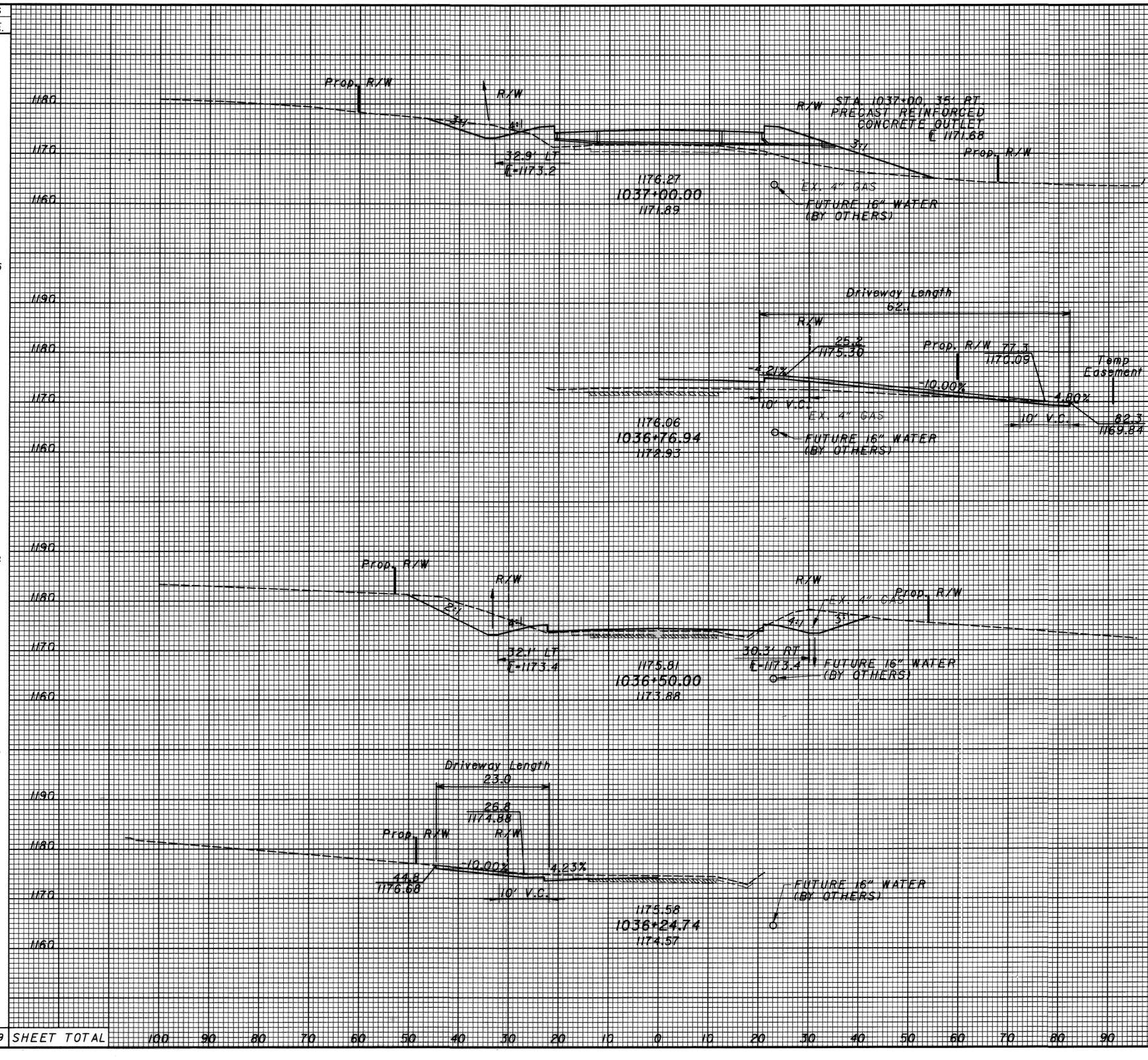
CHECKED JDP

CROSS SECTIONS S.R. 3

STA. 1036+24.74 TO STA. 1037+00.00

MED-94-15.82

57/101



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SEEDING END WIDTH	SEEDING SQ. YDS.
	114
	636
	115
	619
	108
	558
	93
	442
	2255

LIMITS OF WETLAND

Prop. R/W

3:1

R/W

2:1

OUTLET TO PROPOSED CULVERT

72.5' LT
E-1161.7

1178.74
1039+00.00
1168.31

EX. 4" GAS

63.8' RT
E-1164.6

OUTLET TO EXISTING CHANNEL

FUTURE 16" WATER (BY OTHERS)

LIMITS OF WETLAND

CULVERT, STA. 1038+57.40
FOR DETAILS SEE SHEET 76.

68.5' LT
E-1162.2

STA. 1038+71.76, 70.8' LT
36" E 1159.9

36" X 154' CONDUIT, TYPE A @ 1.95%

1177.88
1038+50.00
1167.25

STA. 1038+41.20, 79.94' RT
36" E 1156.90

56.3' LT
E-1165.6

1177.22
1038+00.00
1167.70

46.7' LT
E-1170.2

1176.73
1037+50.00
1169.54

CONC. PAVEMENT TO BE REMOVED

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
11	1011		
		16	2059
6	1213		
13	2040		
8	990		
15	1566		
8	701		
33	892		
		77	6557

SHEET TOTAL

SHEET TOTAL

CALCULATED BBD

CHECKED JDP

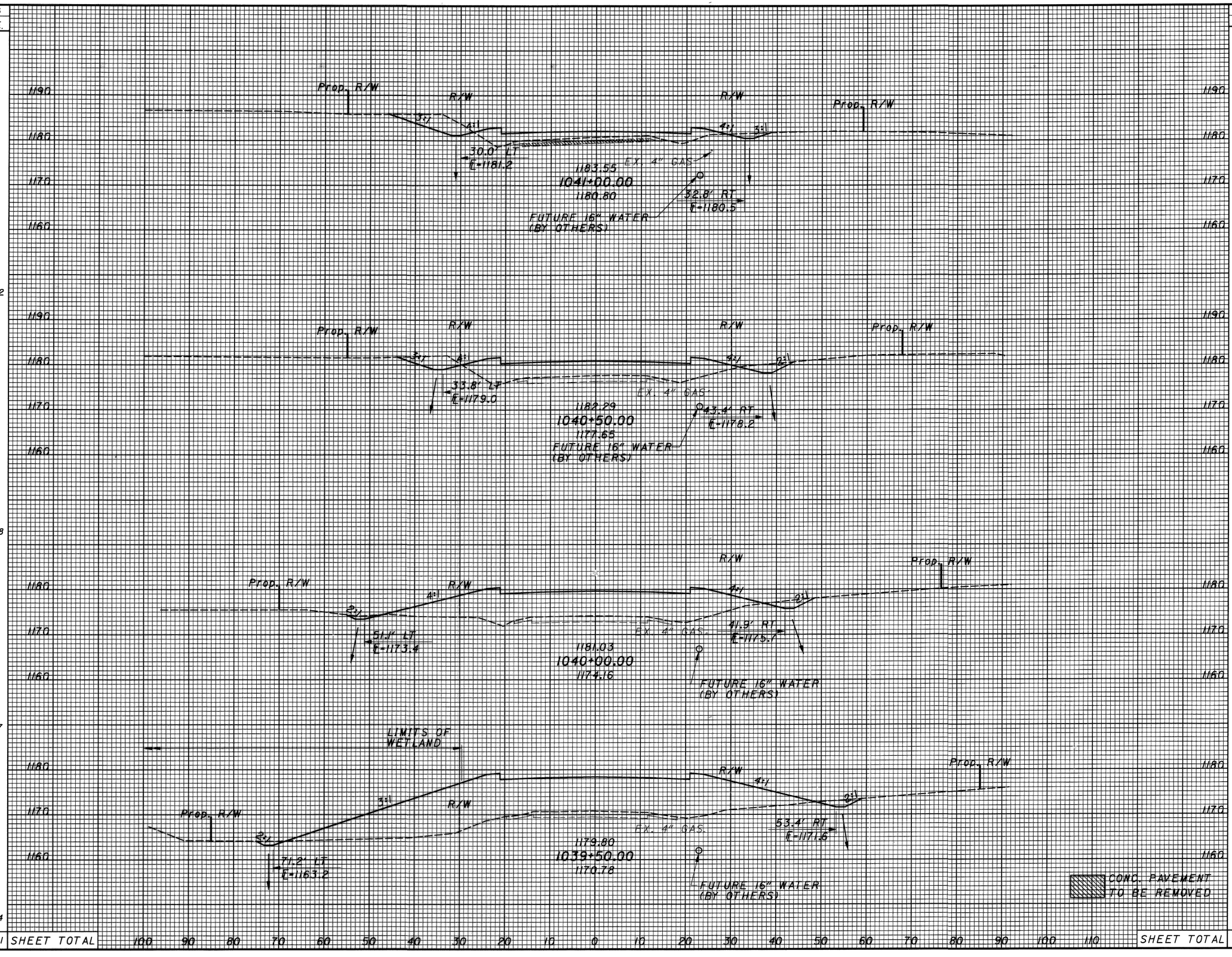
CROSS SECTIONS S.R. 3
STA. 1037+50.00 TO STA. 1039+00.00

MED-94-15.82

58
101

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
48	272	48	90	81	272
50	328	40	205	51	560
68	467	16	400	27	1092
100	594	13	780	23	1658
SHEET TOTAL 1661				182	3582



CALCULATED BBD
CHECKED JDP

CROSS SECTIONS S.R. 3
STA. 1039+50.00 TO STA. 1041+00.00

MED-94-15.82

59
101

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
26		80	104		
	323			201	233
69		97	102		
	331			160	122
50		75	30		
	113			61	35
0		6	16		
41				15	30
808	SHEET TOTAL			437	420

CALCULATED BBD

CHECKED JPP

CROSS SECTIONS S.R. 3
STA. 1140+15.22 TO STA. 1129+61.21

MED-94-15.82

60/101

Driveway Length 27.4
R/W
Prop. R/W
38.0
1186.30
4.65%
4.70%
48.1
1186.77
12" CONDUIT
10' V.C.
EX. 12" RCP TO BE REMOVED
1187.77
EX. 4" GAS
1129+61.21
1186.02
40.6' RT
℄=1181.4
R/W
3:1
Prop. R/W
OUTLET TO EXISTING DITCH
FUTURE 16" WATER (BY OTHERS)

STA. 1129+00, 35' RT.
PRECAST REINFORCED CONCRETE OUTLET
℄ 1181.64
Prop. R/W
R/W
2:1
4:1
R/W
3:1
Prop. R/W
37.5' LT
℄=1182.0
1186.23
1129+00.00
1185.77
EX. 4" GAS
FUTURE 16" WATER (BY OTHERS)

Prop. R/W
R/W
2:1
4:1
34.1' LT
℄=1181.6
1184.97
1128+50.00
1183.84
R/W
4:1
Prop. R/W
EX. 4" GAS
FUTURE 16" WATER (BY OTHERS)

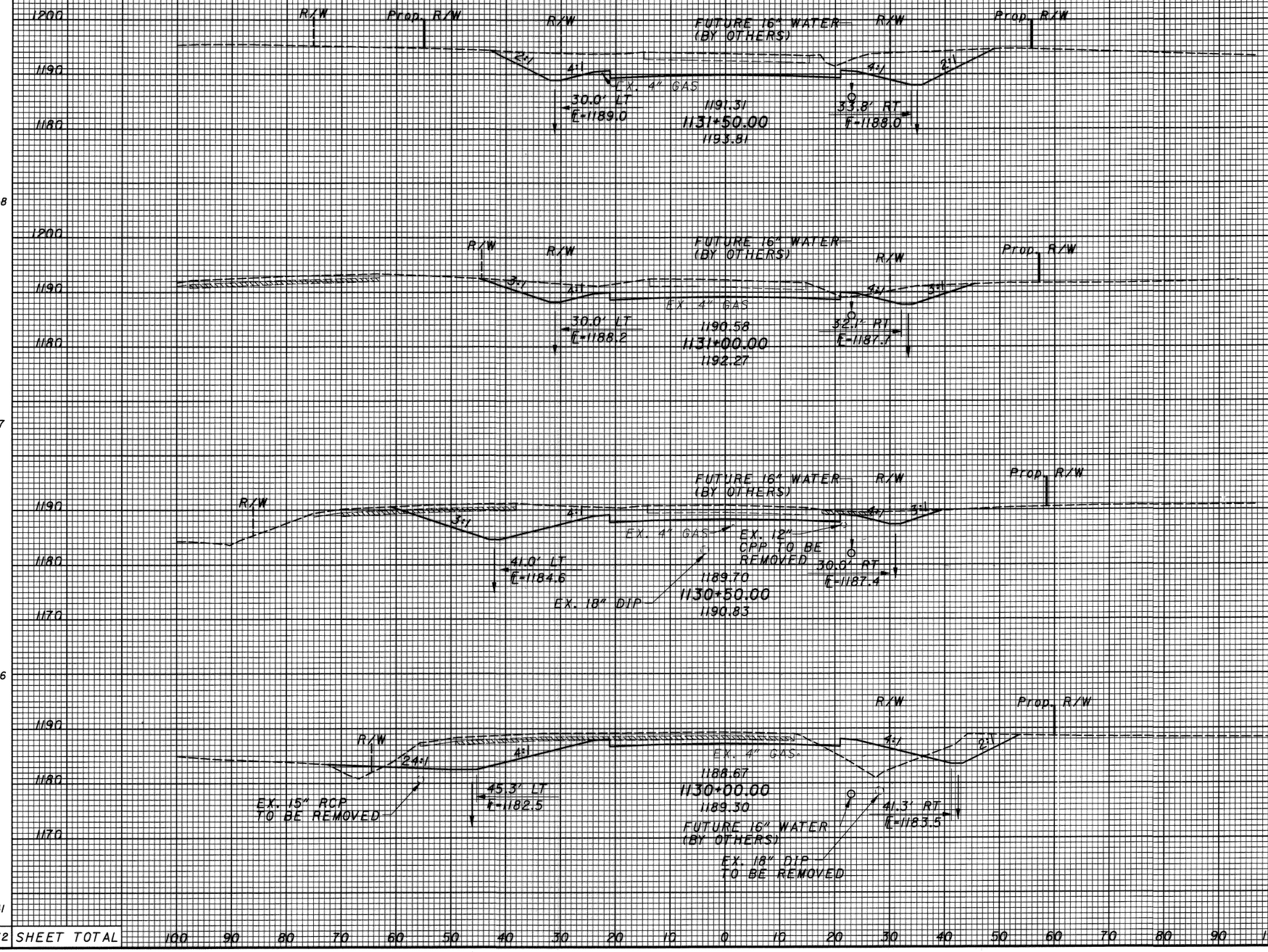
STA. EQUATION 1041+15.67 BACK = 1128+09.64 AHEAD

Driveway Length 26.6'
25.0
1183.21
R/W 41.4
1181.87
Prop. R/W
-4.17%
8.00%
3.60%
EX. CMP
10' V.C.
46.7
1182.00
EX. 4" GAS
1183.94
1041+15.22
1181.67
FUTURE 16" WATER (BY OTHERS)
10' V.C.

CONC. PAVEMENT TO BE REMOVED

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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
57		340	0		
	308			507	2
54		207	2		
	317			448	2
60		277	0		
	406			513	65
86		277	70		
	241			256	125
1272	SHEET TOTAL			1724	194



CALCULATED BBD
CHECKED JDP

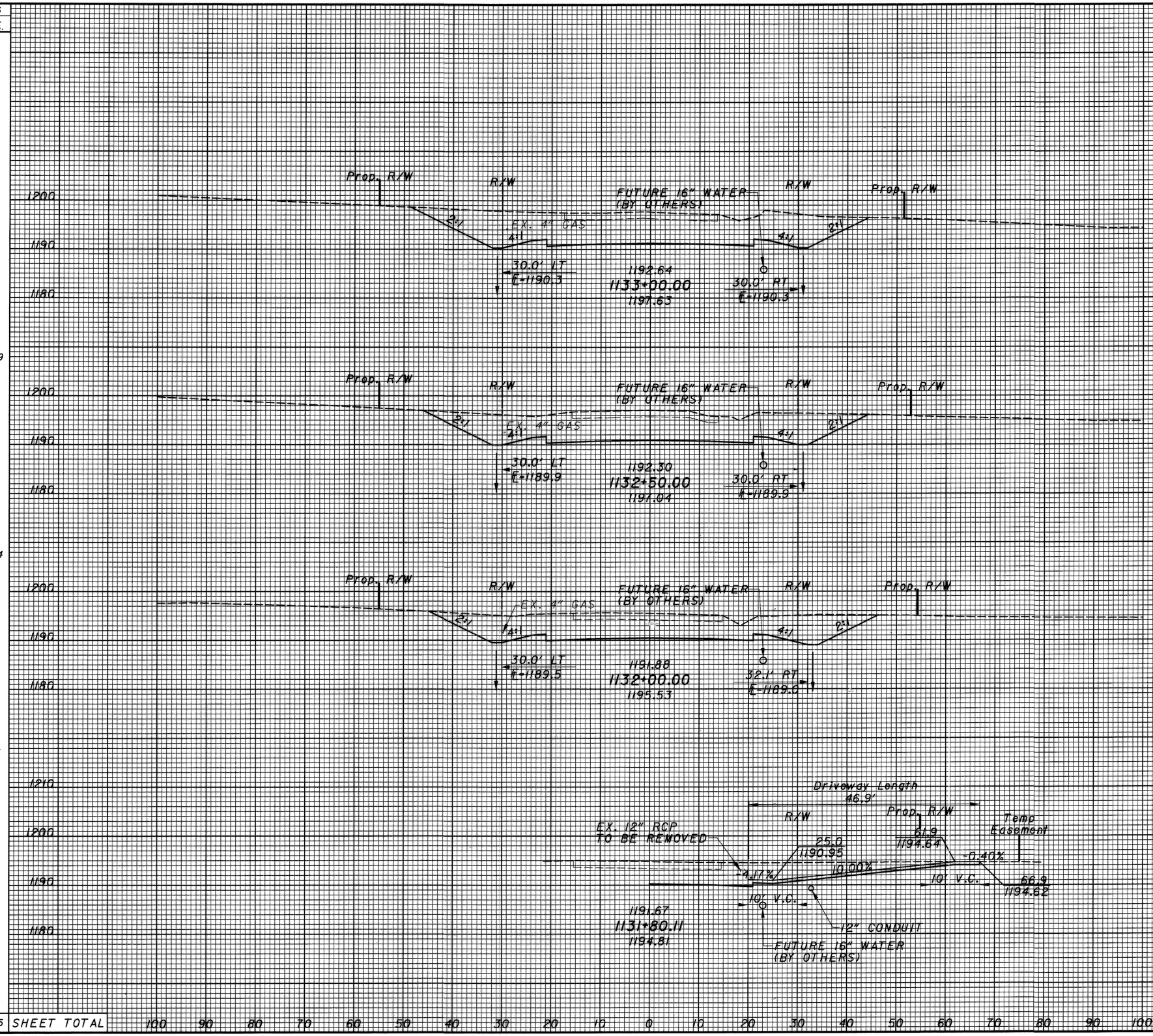
CROSS SECTIONS S.R. 3
STA. 1130+00.00 TO STA. 1131+50.00

MED-94-15.82

61
101

g:\tr\proj\58529\cad\3xssht.dgn

SEEDING	
END WIDTH	SQ. YDS.
59	
	319
56	
	314
57	
	63
0	
	99
	795



END AREA		VOLUME	
CUT	FILL	CUT	FILL
508	0		
		888	0
450	0		
789	0		
402	0		
225	0		
208	0		
305	0		
2207	0		

CALCULATED BBD

CHECKED JDP

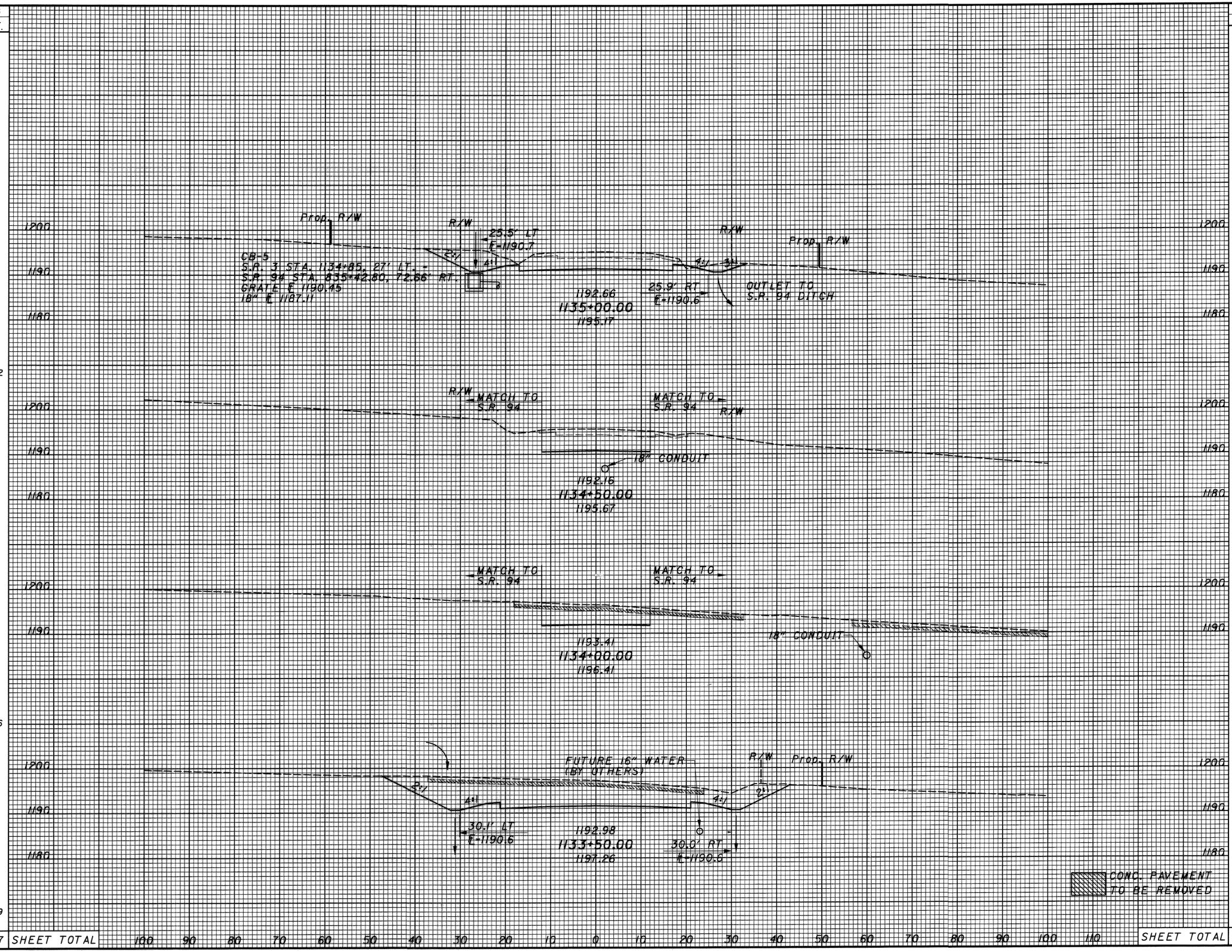
CROSS SECTIONS S.R. 3
STA. 1131+80.11 TO STA. 1133+00.00

MED-94-15.82

62
101

g:\tr\proj\58529\cadd\3xssht.dgn

SEEDING	
END WIDTH	SQ. YDS.
44	
	122
0	
0	
0	
	156
	56
	319
	597



END AREA		VOLUME	
CUT	FILL	CUT	FILL
194	1		
		180	1
0	0		
		0	0
0	0		
		404	0
436	0		
		875	0
		1459	1

CALCULATED BBD
CHECKED JPP

CROSS SECTIONS S.R. 3 & LEDGE ROAD
STA. 1133+50.00 TO STA. 1135+00.00

MED-94-15.82

63
101

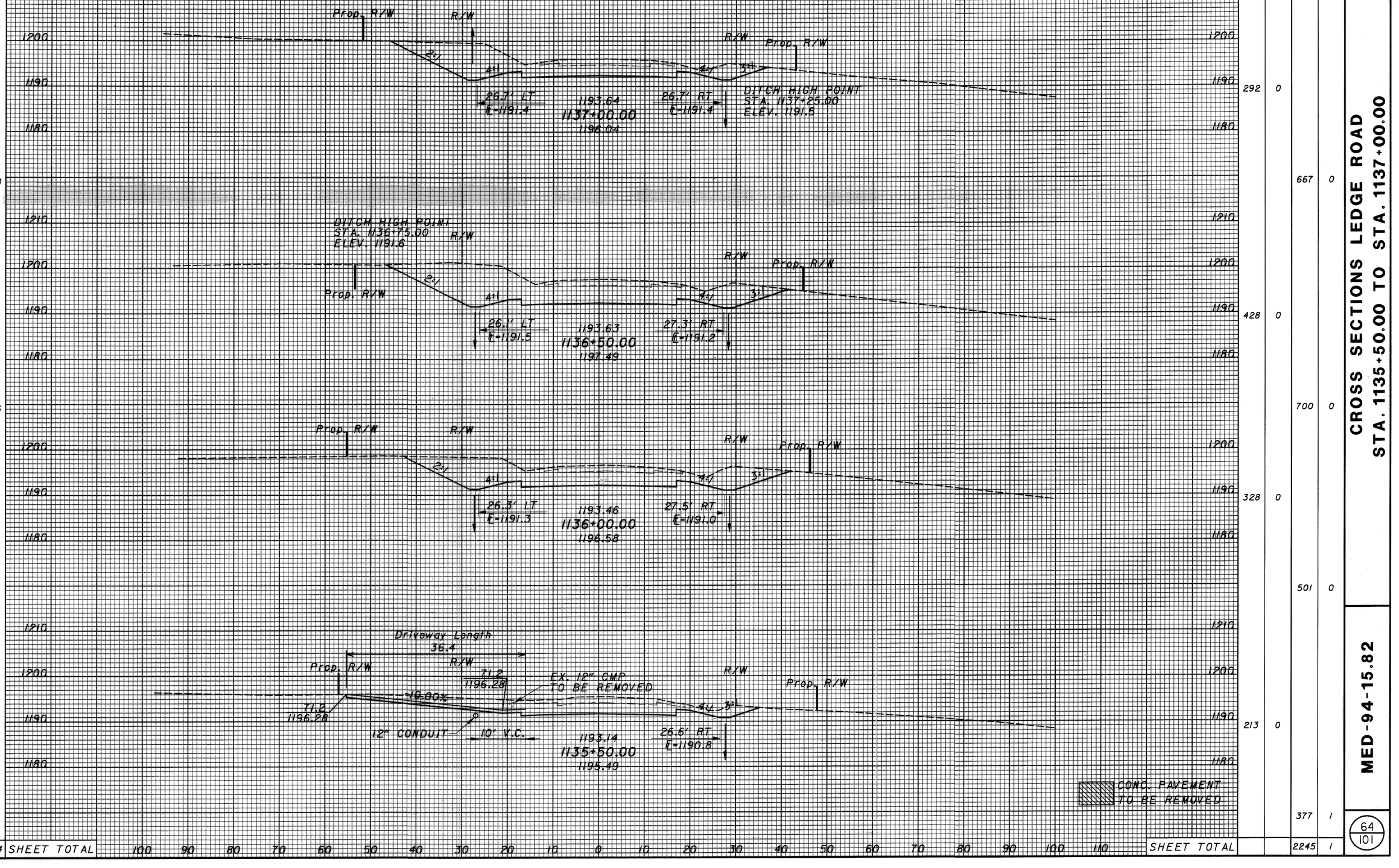
SHEET TOTAL

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

SHEET TOTAL

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SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
56	328	292	0	667	0
62	336	428	0	700	0
59	231	328	0	501	0
24	189	213	0	377	1
1084 SHEET TOTAL				2245	1



CALCULATED BBD
CHECKED JDP

CROSS SECTIONS LEDGE ROAD
STA. 1135+50.00 TO STA. 1137+00.00

MED-94-15.82

64
101

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SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0		0	0		
	125			61	13
45		66	14		
	244			187	19
43		136	6		
	275			396	6
	644	SHEET TOTAL		644	38

CALCULATED BBD

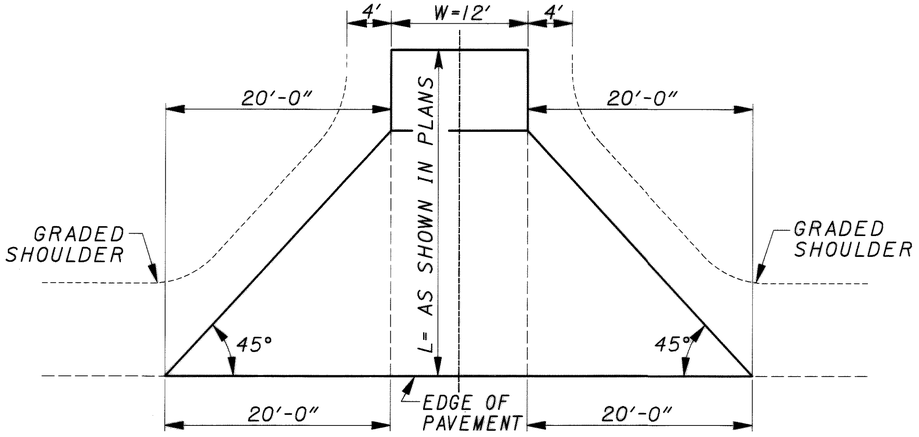
CHECKED JDP

CROSS SECTIONS LEDGE ROAD
STA. 1137+50.00 TO STA. 1139+00.00

MED-94-15.82

65
101

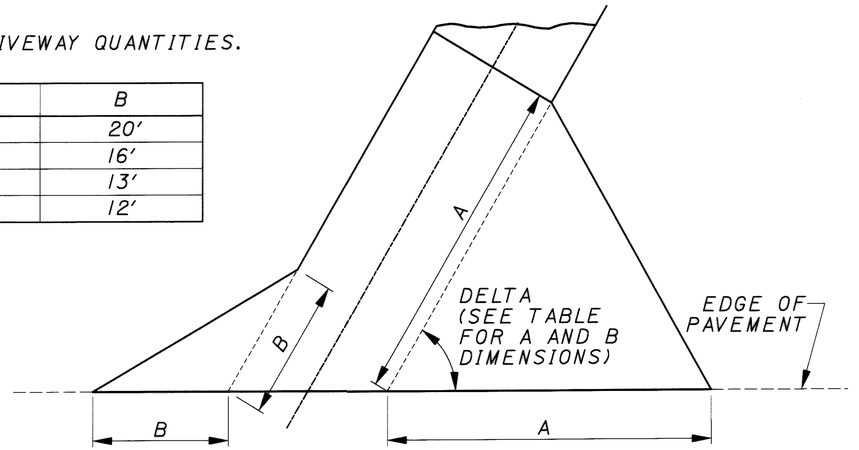
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TYPE 2 DRIVEWAY

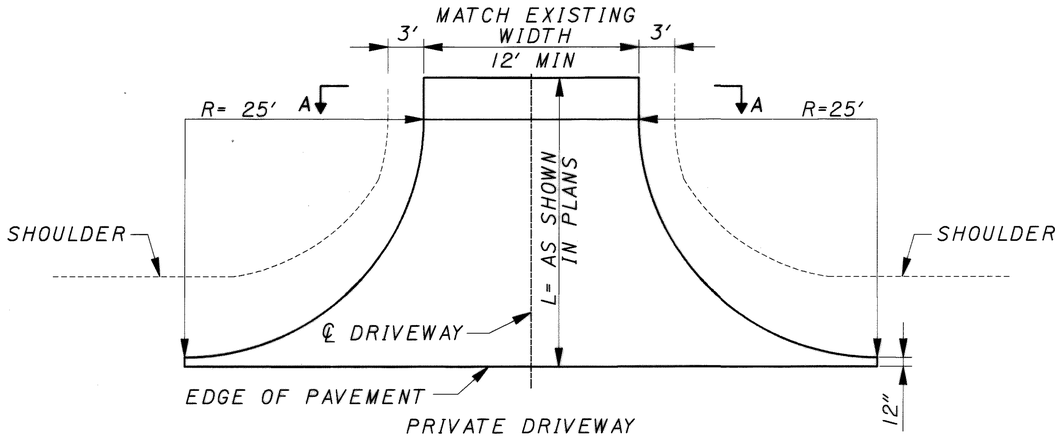
SEE SHEET 21 FOR DRIVEWAY QUANTITIES.

Delta	A	B
80° to 90°	20'	20'
75° to 85°	25'	16'
65° to 75°	28'	13'
55° to 65°	33'	12'

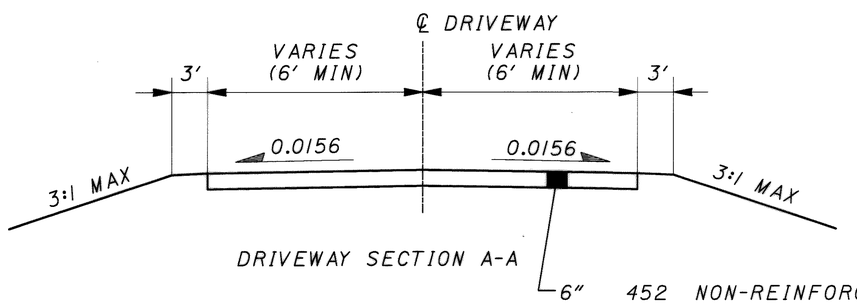


TYPE 2 SKEWED DRIVEWAY

TRANSITION FROM STANDARD CURB SECTION TO DROP CURB SECTION TO BE MADE IN 18" DISTANCE FROM DRIVEWAY



PRIVATE DRIVEWAY

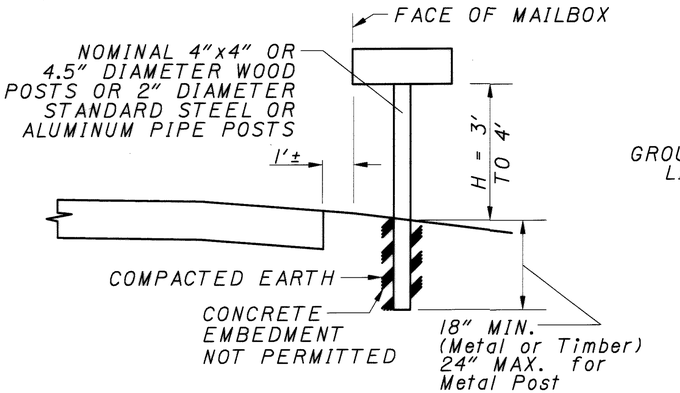


DRIVEWAY SECTION A-A

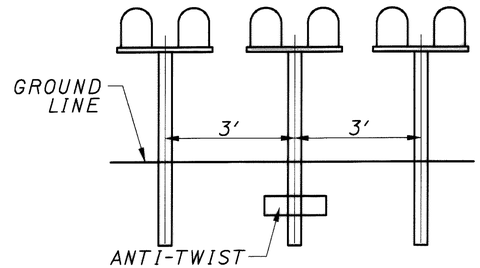
NOTE: FLARED PORTION OF DRIVEWAYS TO BE CONSTRUCTED WITH THE SAME PAVEMENT COMPOSITION AS THE SHOULDER PAVEMENT COMPOSITION. DRIVEWAYS WILL BE REPLACED WITH A PAVEMENT OF A SIMILAR TYPE, INSOFAR AS PRACTICABLE, BEYOND THE FLARED PORTION. SEE TYPICAL ABOVE

6"	452	NON-REINFORCED CONCRETE PAVEMENT OR
2"	448	ASPHALT CONCRETE SURFACE COURSE, TYPE I (DRIVEWAYS)
	408	PRIME COAT (RATE 0.4GAL/S.Y.)
6"	304	AGGREGATE BASE OR
8"	304	AGGREGATE BASE

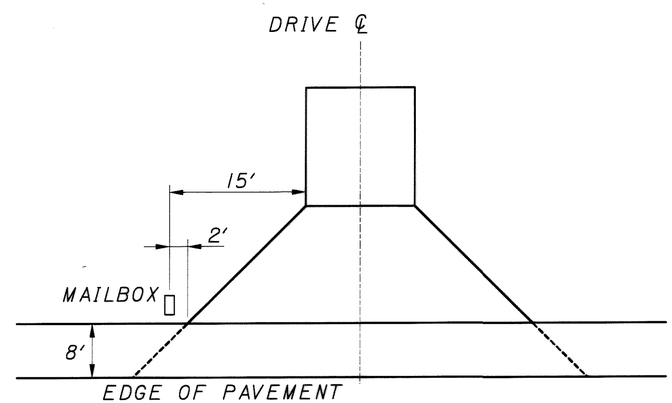
PRIVATE DRIVE / FIELD ENTRANCE



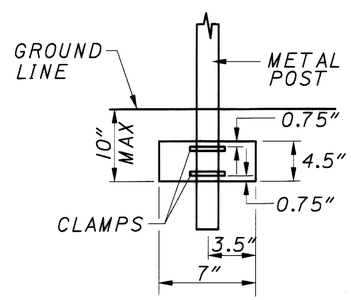
MAILBOX INSTALLATION



GROUPED MAILBOX INSTALLATION



DRIVE WITH MAILBOX



ANTI-TWIST PLATE

NOTE:
SEE GENERAL NOTES FOR DETAILS AND QUANTITIES

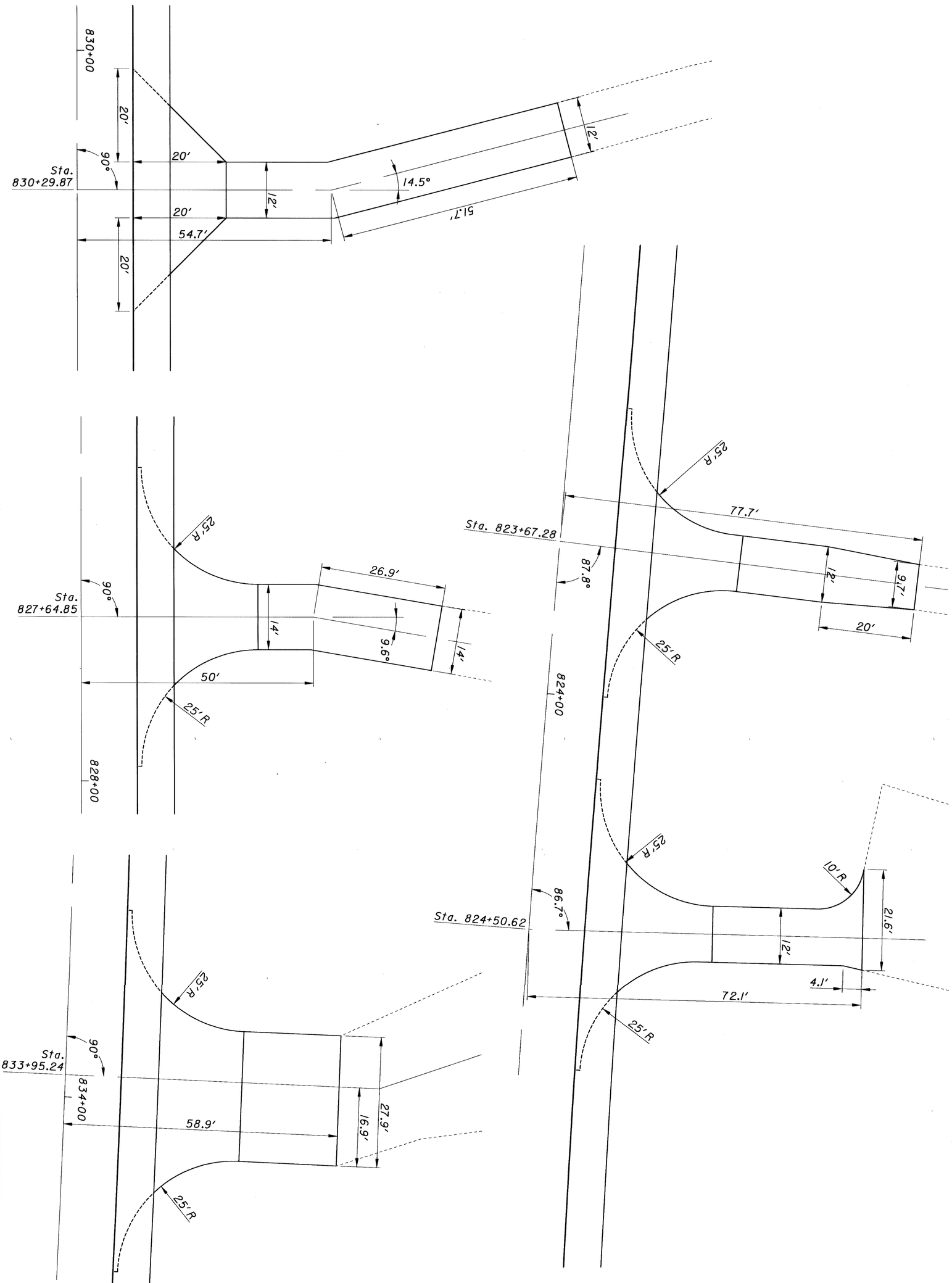
DRIVE AND MAILBOX DETAILS

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66
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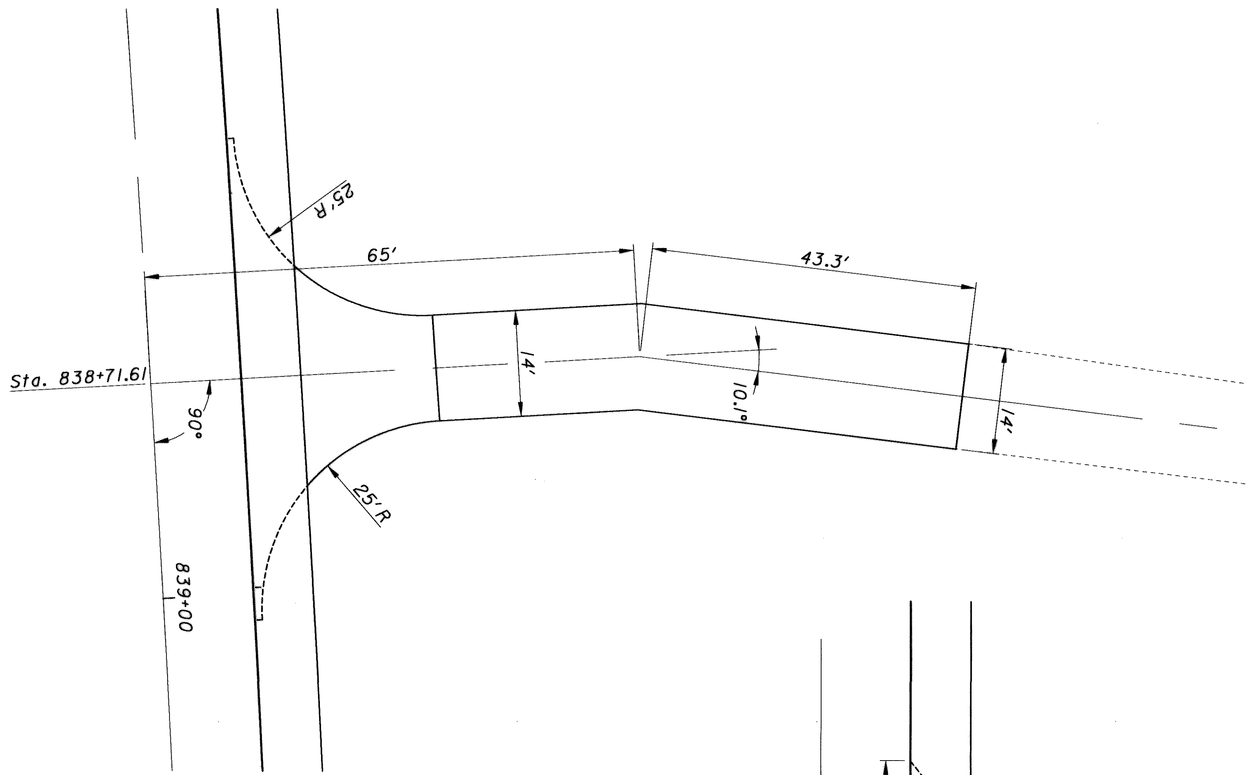
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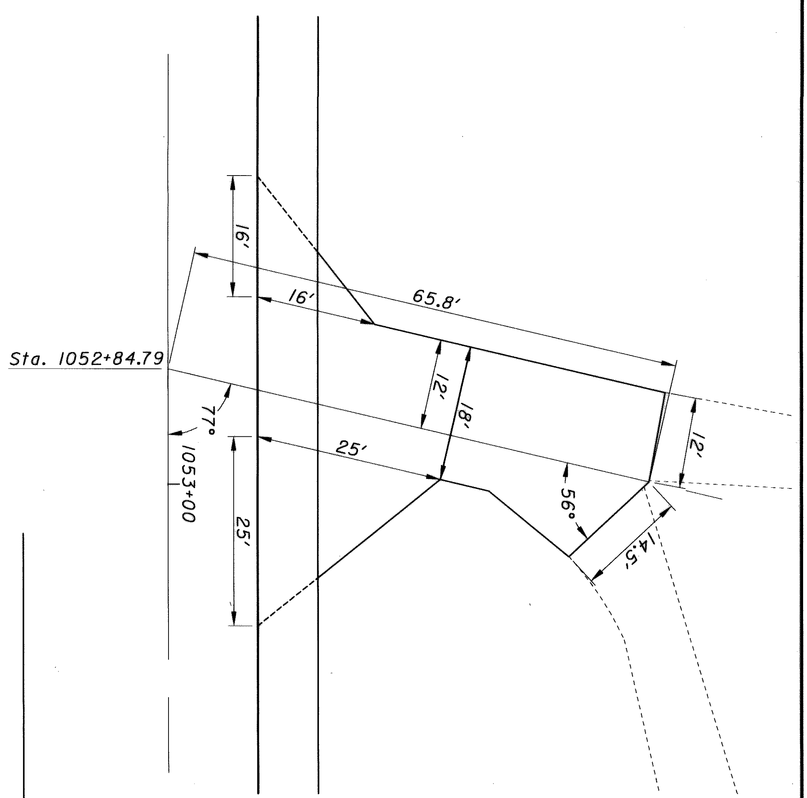
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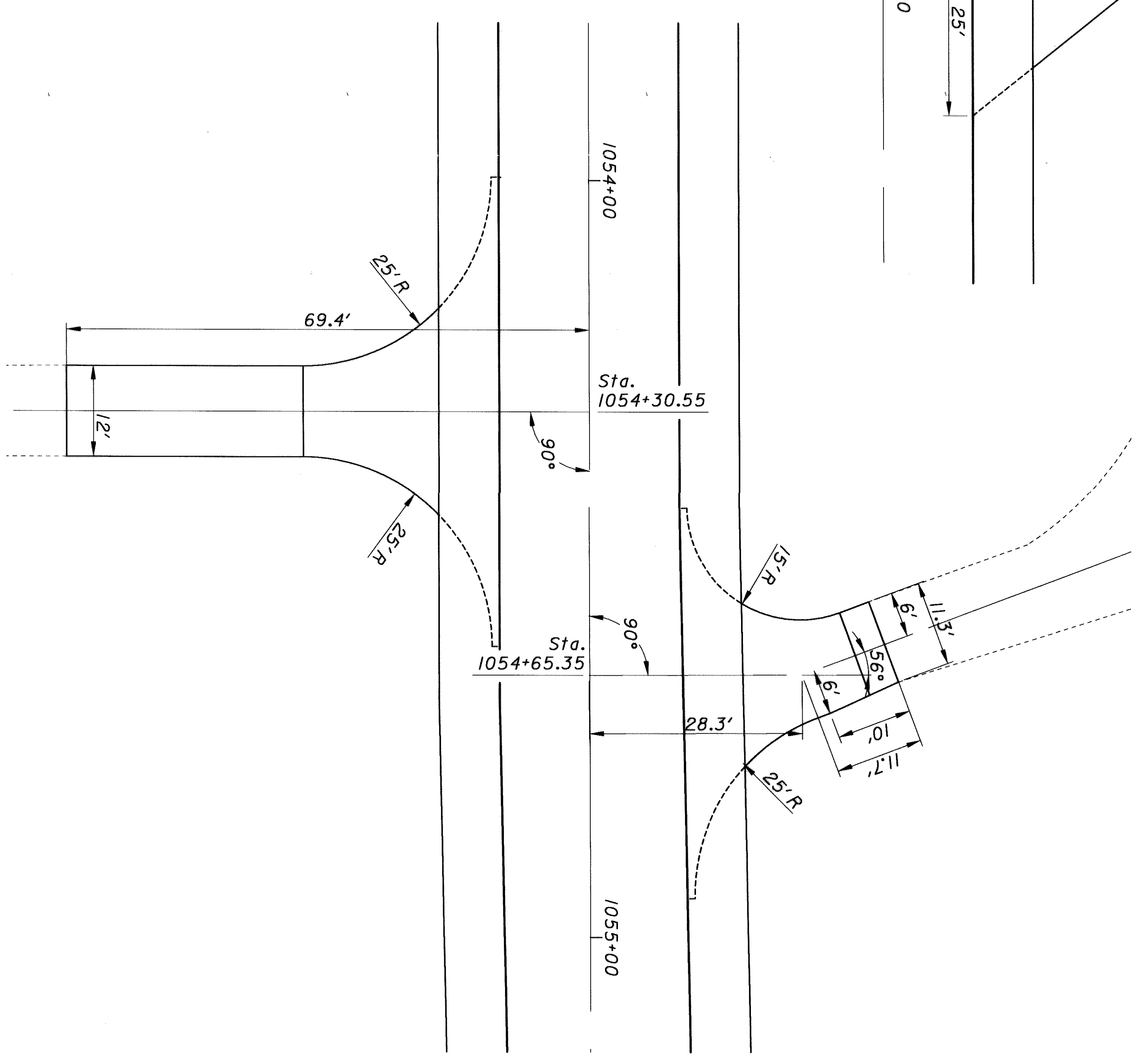


101 / 67	MED-94-15.82	S.R. 94 DRIVEWAY DETAILS	CALCULATED BBD / CHECKED JDP	0 10 / 5 20 HORIZONTAL SCALE IN FEET

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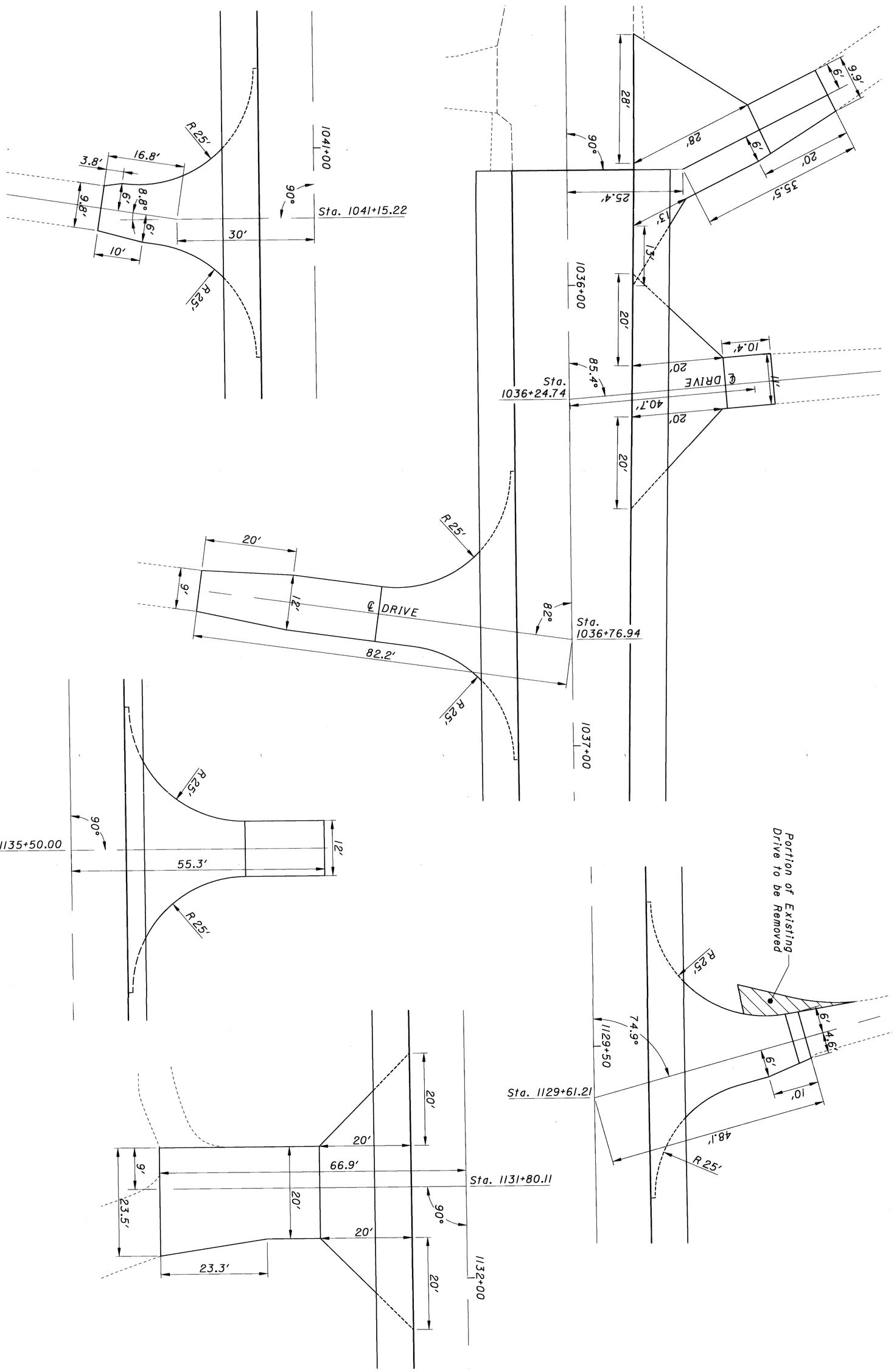






68 / 101	MED-94-15.82	S.R. 94 DRIVEWAY DETAILS	CALCULATED BBD / CHECKED JDP	0 10 / 5 20 HORIZONTAL SCALE IN FEET

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69 / 101	**MED-94-15.82**	**S.R. 3 DRIVEWAY DETAILS**	CALCULATED BBD CHECKED JDP	0 5 10 20 HORIZONTAL SCALE IN FEET

Sta. 834+67.61, 62.00' Lt. ℄ S.R. 94
Sta. 1133+59.05, 62.00' Rt. ℄ S.R. 3

D = 83° 33' 06"
R = 50'
L = 72.91'

Sta. 835+90.92, 62.00' Lt. ℄ S.R. 94
Sta. 1133+46.39, 62.00' Lt. ℄ S.R. 3

D = 95° 12' 55"
R = 50'
L = 83.09'

℄ Const. S.R. 3
N 89° 22' 35" E

PI Sta. 1133+73.07

21"

CB-5
GR. ELEV.
1186.25

10' Typ.

833+00 834+00 835+00 836+00 837+00 838+00

℄ Construction S.R. 94

8' 12' 23' 8'

18"

D = 96° 37' 11"
R = 50'
L = 84.32'

D = 84° 38' 27"
R = 50'
L = 73.86'

Sta. 834+52.09, 73.00' Rt. ℄ S.R. 94
Sta. 1134+94.97, 62.00' Rt. ℄ Ledge Road

Sta. 835+78.38, 73.00' Rt. ℄ S.R. 94
Sta. 1134+81.94, 62.00' Lt. ℄ Ledge Road

Sta. 835+22.94 ℄ S.R. 94=
Sta. 1134+14.71 ℄ S.R. 3 & Ledge Road

CB-5
GR. ELEV.
1190.55

N 89° 24' 19" E

℄ Const.
Ledge Road

4' 12' 12' 4'

1133+00 1134+00 1135+00 1136+00

CURVE DATA S.R. 94
P.I. Sta = 836+83.22
D = 10° 38' 55" (RT)
Dc = 1° 00' 00"
R = 5,729.58'
T = 533.97'
L = 1,064.86'
E = 24.83'
e_{max} = 0.025

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BBD
CHECKED JDP

INTERSECTION DETAIL - S.R. 94 & S.R. 3

MED-94-15.82

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101

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SUPERELEVATION TABLE

P.I. STATION 822+00.01 | Dc=2° 15' 00"

REMARKS	LEFT LANE					CENTERLINE CONTROL		RIGHT LANE				
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EDGE ELEVATION
	1190.53	210	-0.19	-0.0156	12	819+75.00	1190.71	210	-0.20	-0.0156	13.04	1190.51
BEGIN SE	1190.73	210	-0.19	-0.0156	12	819+86.75	1190.92	210	-0.20	-0.0156	12.82	1190.72
	1191.02	210	-0.12	-0.0103	12	820+00.00	1191.15	210	-0.20	-0.0156	12.58	1190.95
	1191.55	210	-0.01	-0.0004	12	820+25.00	1191.55	210	-0.19	-0.0156	12.13	1191.36
HALF FLAT	1191.57	210	0.00	0.0000	12	820+26.06	1191.57	210	-0.19	-0.0156	12.11	1191.38
	1192.03	210	0.11	0.0095	12	820+50.00	1191.92	210	-0.19	-0.0156	12	1191.73
R.C.	1192.31	210	0.19	0.0156	12	820+65.37	1192.12	210	-0.19	-0.0156	12	1191.93
	1192.47	210	0.23	0.0194	12	820+75.00	1192.24	210	-0.23	-0.0194	12	1192.01
	1192.87	210	0.35	0.0293	12	821+00.00	1192.52	210	-0.35	-0.0293	12.05	1192.17
	1193.23	210	0.47	0.0393	12	821+25.00	1192.76	210	-0.49	-0.0393	12.51	1192.27
	1193.55	210	0.59	0.0492	12	821+50.00	1192.96	210	-0.64	-0.0492	12.96	1192.32
FULL SE	1193.57	210	0.60	0.0500	12	821+52.06	1192.97	210	-0.65	-0.0500	13.00	1192.32
S.C.	1193.60	210	0.60	0.0500	12	821+56.06	1193.00	210	-0.65	-0.0500	13.07	1192.35
	1193.83	210	0.60	0.0500	12	822+00.00	1193.23	210	-0.69	-0.0500	13.87	1192.53
C.S.	1193.94	210	0.60	0.0500	12	822+43.80	1193.34	210	-0.73	-0.0500	14.67	1192.61
FULL SE	1193.94	210	0.60	0.0500	12	822+49.50	1193.34	210	-0.74	-0.0500	14.77	1192.60
	1193.94	210	0.60	0.0498	12	822+50.00	1193.34	210	-0.74	-0.0498	14.78	1192.60
	1193.81	210	0.48	0.0399	12	822+75.00	1193.34	210	-0.61	-0.0399	15.23	1192.73
	1193.65	210	0.36	0.0300	12	823+00.00	1193.29	210	-0.47	-0.0300	15.69	1192.82
	1193.44	210	0.24	0.0200	12	823+25.00	1193.20	210	-0.32	-0.0200	16.14	1192.88
R.C.	1193.34	210	0.19	0.0156	12	823+36.18	1193.15	210	-0.26	-0.0156	16.35	1192.90
	1193.20	210	0.12	0.0101	12	823+50.00	1193.08	210	-0.17	-0.0101	16.60	1192.91
HALF FLAT	1192.90	210	0.00	0.0000	12	823+75.50	1192.90	210	0.00	0.0000	17.06	1192.90

SUPERELEVATION TABLE

P.I. STATION 825+51.14 | Dc=2° 15' 00"

REMARKS	LEFT LANE					CENTERLINE CONTROL		RIGHT LANE				
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EDGE ELEVATION
HALF FLAT	1192.90	210	0.00	0.0000	12	823+75.50	1192.90	210	0.00	0.0000	17.06	1192.90
	1192.58	210	-0.12	-0.0097	12	824+00.00	1192.70	210	0.12	0.0067	17.51	1192.81
R.C.	1192.37	210	-0.19	-0.0156	12	824+14.81	1192.55	210	0.19	0.0105	17.78	1192.74
	1192.21	210	-0.24	-0.0196	12	824+25.00	1192.45	210	0.24	0.0131	17.96	1192.68
	1191.79	210	-0.35	-0.0296	12	824+50.00	1192.15	210	0.35	0.0193	18.42	1192.50
	1191.35	210	-0.47	-0.0395	12	824+75.00	1191.82	210	0.47	0.0251	18.87	1192.30
	1190.86	210	-0.59	-0.0494	12	825+00.00	1191.45	210	0.59	0.0307	19.33	1192.04
FULL SE	1190.82	210	-0.60	-0.0500	12	825+01.50	1191.42	210	0.60	0.0310	19.35	1192.02
S.C.	1190.73	210	-0.60	-0.0500	12	825+07.19	1191.33	210	0.97	0.0500	19.46	1192.30
	1189.98	210	-0.60	-0.0500	12	825+50.00	1190.58	210	1.01	0.0500	20.23	1191.59
C.S.	1189.06	210	-0.60	-0.0500	12	825+94.93	1189.66	210	1.05	0.0500	21.05	1190.71
FULL SE	1188.97	210	-0.60	-0.0500	12	825+98.93	1189.57	210	1.06	0.0500	21.12	1190.63
	1188.95	210	-0.59	-0.0496	12	826+00.00	1189.55	210	1.05	0.0498	21.14	1190.60
	1188.49	210	-0.48	-0.0397	12	826+25.00	1188.97	210	0.96	0.0443	21.60	1189.93
	1188.00	210	-0.36	-0.0297	12	826+50.00	1188.35	210	0.86	0.0390	22.05	1189.21
	1187.45	210	-0.24	-0.0198	12	826+75.00	1187.69	210	0.76	0.0339	22.51	1188.46
R.C.	1187.21	210	-0.19	-0.0156	12	826+85.62	1187.40	210	0.72	0.0318	22.70	1188.12
	1186.82	210	-0.19	-0.0156	12	827+00.00	1187.01	210	0.67	0.0290	22.96	1187.68
HALF FLAT	1186.14	210	-0.19	-0.0156	12	827+24.93	1186.33	210	0.55	0.0239	23	1186.88
	1186.14	210	-0.19	-0.0156	12	827+25.00	1186.33	210	0.55	0.0239	23	1186.88
	1185.47	210	-0.19	-0.0156	12	827+50.00	1185.66	210	0.43	0.0187	23	1186.09
END SE	1185.11	210	-0.19	-0.0156	12	827+64.24	1185.30	210	0.36	0.0158	23	1185.66
	1184.85	210	-0.19	-0.0156	12	827+75.00	1185.04	210	-0.36	-0.0156	23	1184.68

CALCULATED BBD | CHECKED JDP

SUPERELEVATION TABLE

MED-94-15.82

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SUPERELEVATION TABLE

P.I. STATION 836+83.22 | Dc = 1°00'00"

REMARKS	LEFT LANE					CENTERLINE CONTROL		RIGHT LANE				
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EDGE ELEVATION
	1181.83	210	-0.19	-0.0156	12	830+50.00	1182.02	210	-0.36	-0.0156	23	1181.66
BEGIN SE	1181.87	210	-0.19	-0.0156	12	830+67.73	1182.06	210	-0.36	-0.0156	23	1181.70
	1181.94	210	-0.15	-0.0127	12	830+75.00	1182.09	210	-0.36	-0.0156	23	1181.73
	1182.19	210	-0.03	-0.0028	12	831+00.00	1182.22	210	-0.36	-0.0156	23	1181.86
HALF FLAT	1182.27	210	0.00	0.0000	12	831+07.04	1182.27	210	-0.36	-0.0156	23	1181.91
	1182.49	210	0.09	0.0071	12	831+25.00	1182.41	210	-0.36	-0.0156	23	1182.05
R.C.	1182.80	210	0.19	0.0156	12	831+46.35	1182.62	210	-0.36	-0.0156	23	1182.26
P.C.	1182.85	210	0.20	0.0168	12	831+49.25	1182.65	210	-0.36	-0.0156	23	1182.29
	1182.86	210	0.20	0.0170	12	831+50.00	1182.66	210	-0.38	-0.0164	23	1182.28
FULL SE	1183.20	210	0.30	0.0250	12	831+70.04	1182.90	210	-0.47	-0.0205	23	1182.42
	1183.62	210	0.30	0.0250	12	832+00.00	1183.32	210	-0.58	-0.0250	23	1182.75
	1185.65	210	0.30	0.0250	12	833+00.00	1185.35	210	-0.58	-0.0250	23	1184.78
	1188.61	210	0.30	0.0250	12	834+00.00	1188.31	210	-0.58	-0.0250	23	1187.74
	1192.42	210	0.30	0.0250	12	835+00.00	1192.12	210	-0.58	-0.0250	23	1191.54
	1196.03	210	0.30	0.0250	12	836+00.00	1195.73	210	-0.58	-0.0250	23	1195.15
	1198.99	210	0.30	0.0250	12	837+00.00	1198.69	210	-0.58	-0.0250	23	1198.11
	1201.31	210	0.30	0.0250	12	838+00.00	1201.01	210	-0.58	-0.0250	23	1200.44
	1203.00	210	0.30	0.0250	12	839+00.00	1202.70	210	-0.55	-0.0250	21.93	1202.15
	1204.05	210	0.30	0.0250	12	840+00.00	1203.75	210	-0.50	-0.0250	20.11	1203.25
	1204.70	210	0.30	0.0250	12	841+00.00	1204.40	210	-0.46	-0.0250	18.29	1203.94
FULL SE	1205.31	210	0.30	0.0250	12	841+93.32	1205.01	210	-0.41	-0.0250	16.59	1204.59
	1205.32	210	0.27	0.0223	12	842+00.00	1205.05	210	-0.38	-0.0233	16.47	1204.67
P.T. BACK	1205.35	210	0.20	0.0168	12	842+14.11	1205.15	210	-0.32	-0.0196	16.21	1204.83
P.T. AHEAD	1205.35	210	0.20	0.0168	12	1051+33.15	1205.15	210	-0.31	-0.0190	16.21	1204.84
R.C.	1205.36	210	0.19	0.0156	12	1051+36.05	1205.17	210	-0.29	-0.0182	16.16	1204.88
	1205.38	210	0.12	0.0101	12	1051+50.00	1205.26	210	-0.25	-0.0156	15.91	1205.01
	1205.42	210	0.00	0.0001	12	1051+75.00	1205.42	210	-0.24	-0.0156	15.45	1205.18
HALF FLAT	1205.42	210	0.00	0.0000	12	1051+75.36	1205.42	210	-0.24	-0.0156	15.45	1205.18
	1205.47	210	-0.12	-0.0098	12	1052+00.00	1205.58	210	-0.23	-0.0156	15.00	1205.35
SE TRANS	1205.49	210	-0.19	-0.0156	12	1052+14.67	1205.68	210	-0.23	-0.0156	14.73	1205.45
	1205.55	210	-0.19	-0.0156	12	1052+25.00	1205.74	210	-0.23	-0.0156	14.54	1205.51

SUPERELEVATION TABLE

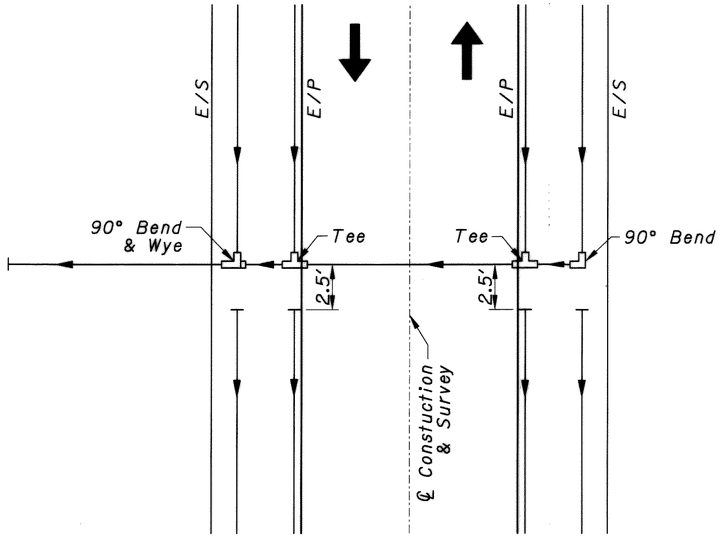
REMARKS	LEFT LANE					CENTERLINE CONTROL		RIGHT LANE				
	EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	EDGE ELEVATION

CALCULATED BBO
CHECKED JDP

SUPERELEVATION TABLE

MED-94-15.82

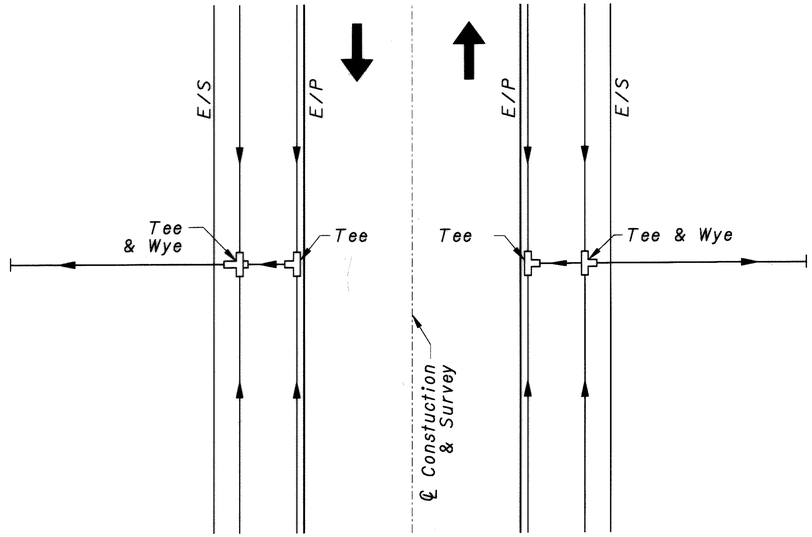
g:\tr\proj\58529\cadd\ge02.dgn



UNDER PAVEMENT OUTLET UNDERDRAINS CONFIGURATION

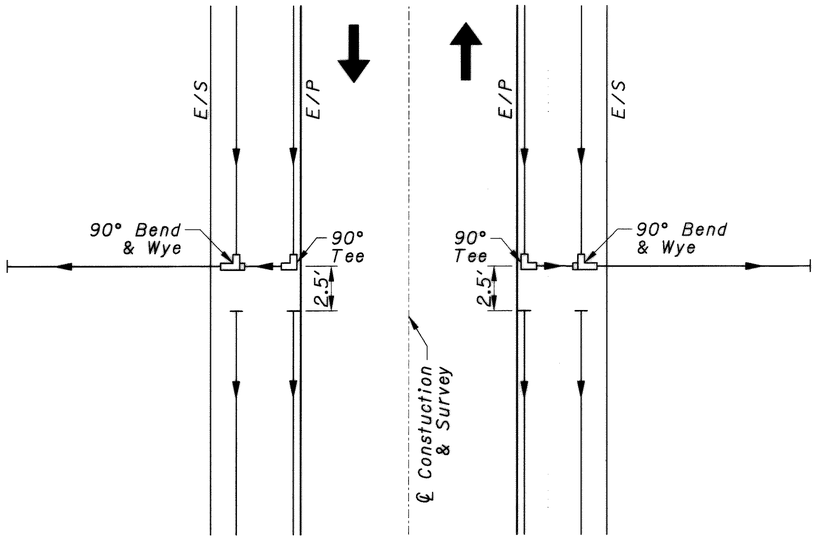
N.T.S.

Note:
All Bends And Branches Are 4" Size



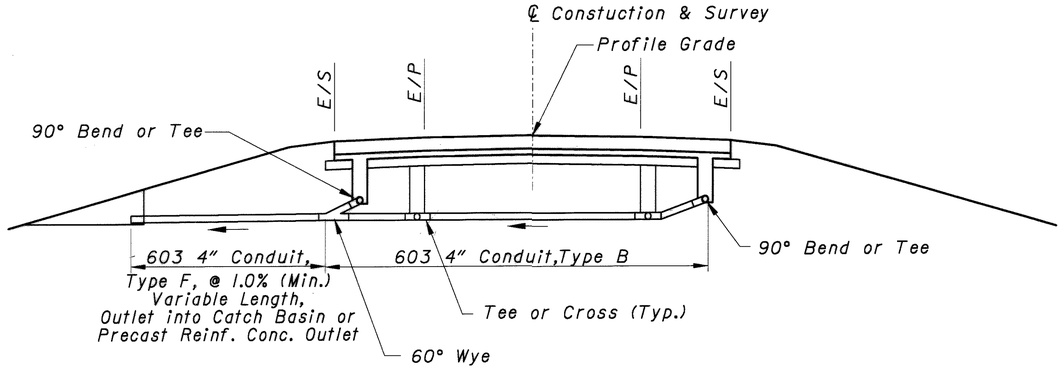
SAG UNDERDRAINS CONFIGURATION

N.T.S.



TYPICAL UNDERDRAINS CONFIGURATION

N.T.S.



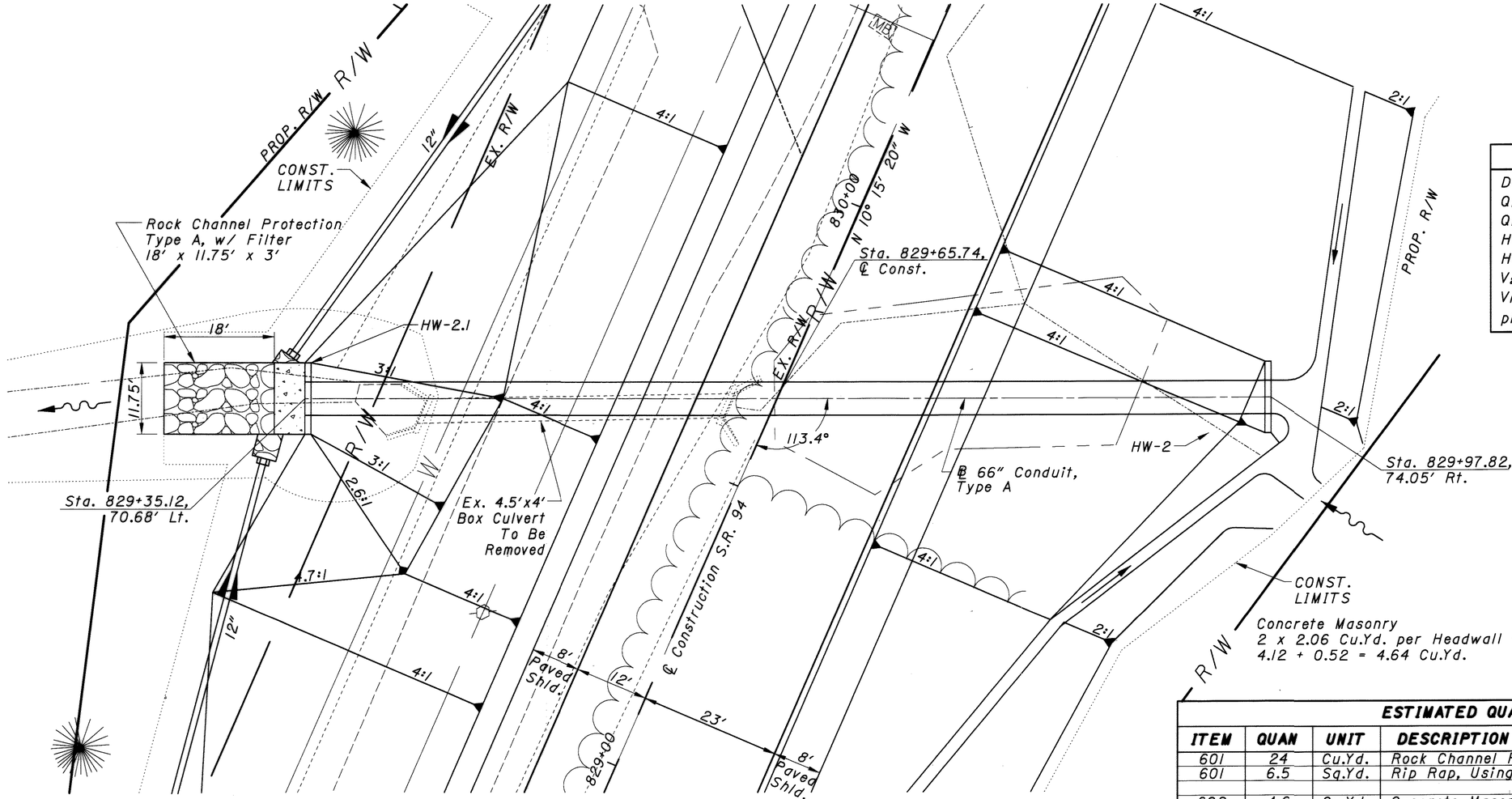
UNDERDRAINS OUTLET

N.T.S.

UNDERDRAINS DETAILS

MED-94-15.82

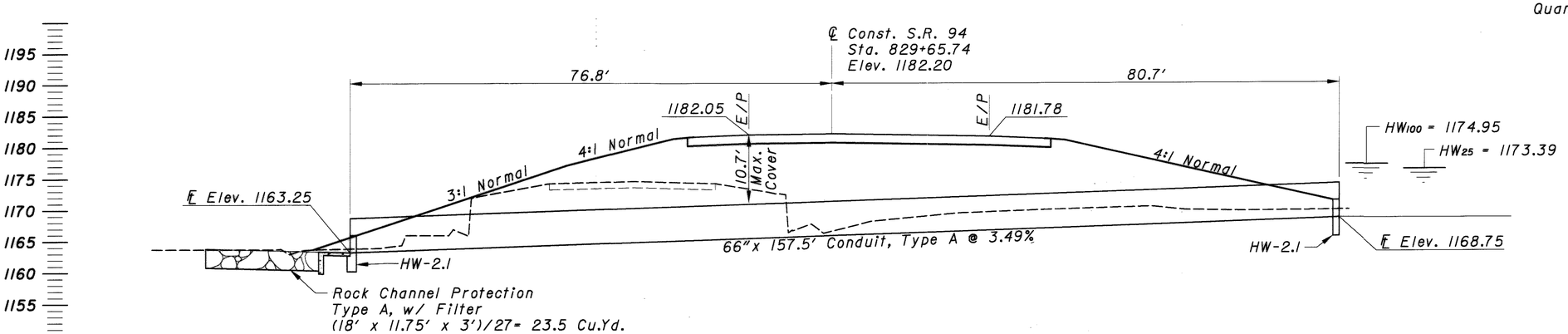
g:\tr\proj\58529\cad\gm04.dgn



HYDRAULIC DESIGN DATA	
Drainage Area	= 102 Ac.
Q_{25}	= 123 cf s
Q_{100}	= 179 cf s
HW_{25}	= 1173.39
HW_{100}	= 1174.95
V_{25}	= 12.2 f ps
V_{100}	= 13.4 f ps
pH	>= 7.0

ESTIMATED QUANTITIES			
ITEM	QUAN	UNIT	DESCRIPTION
601	24	Cu.Yd.	Rock Channel Protection, Type A, w/Filter
601	6.5	Sq.Yd.	Rip Rap, Using 6" Reinforced Concrete Slab
602	4.6	Cu.Yd.	Concrete Masonry
603	157.5	Lin.Ft.	66" Conduit, Type A, 707.01(0.138), 707.04(0.138), 707.05(0.138), 707.08(0.138), 707.09(0.138), 707.11(0.138), 707.13(0.138)

Quantities Carried to Plan Sheet 29



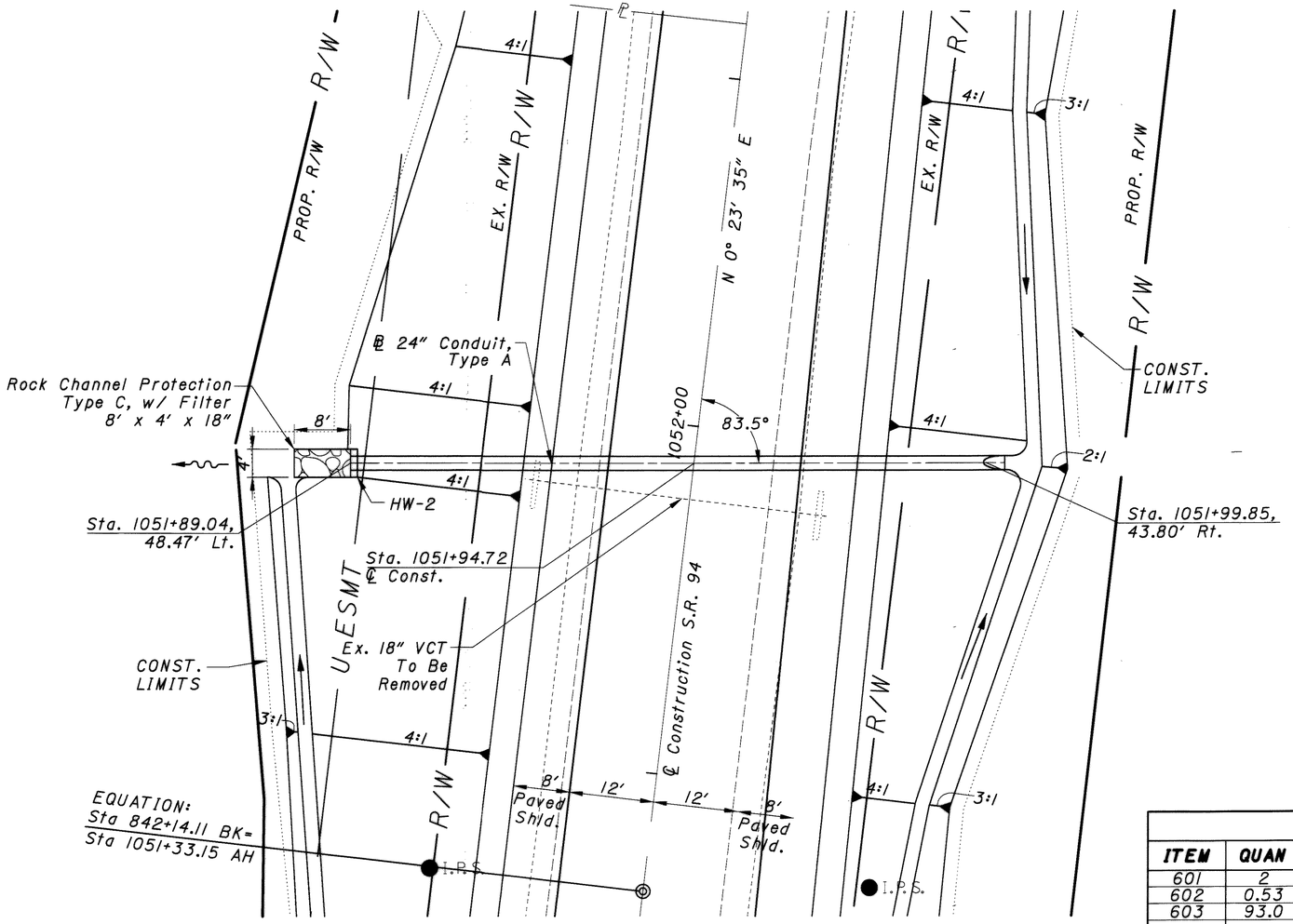
HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED BBD
CHECKED ADP

S.R. 94 CULVERT DETAIL STA. 829+65.74

MED-94-15.82

74
101

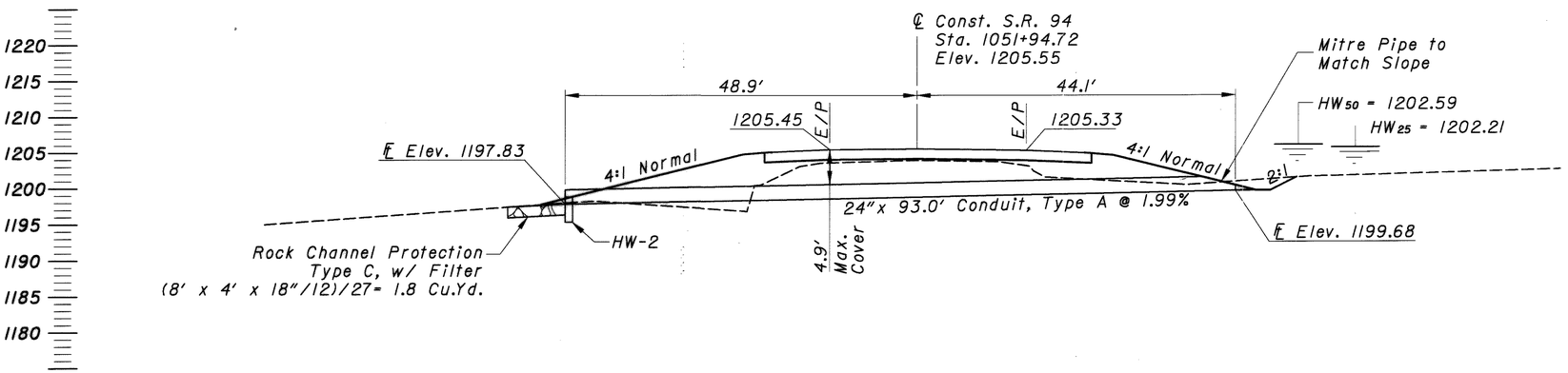
g:\tr\proj\58529\cad\dd03.dgn



HYDRAULIC DESIGN DATA	
Drainage Area	= 35 Ac.
Q_{25}	= 19.0 cf s
Q_{50}	= 22.3 cf s
HW_{25}	= 1202.2
HW_{50}	= 1202.6
V_{25}	= 11.0 f ps
V_{50}	= 11.4 f ps
pH	= >7.0

ESTIMATED QUANTITIES			
ITEM	QUAN	UNIT	DESCRIPTION
601	2	Cu.Yd.	Rock Channel Protection, Type C, w/Filter
602	0.53	Cu.Yd.	Concrete Masonry
603	93.0	Lin.Ft.	24" Conduit, Type A, 706.02 1250 D-Load; or 27" 707.01 or 707.21

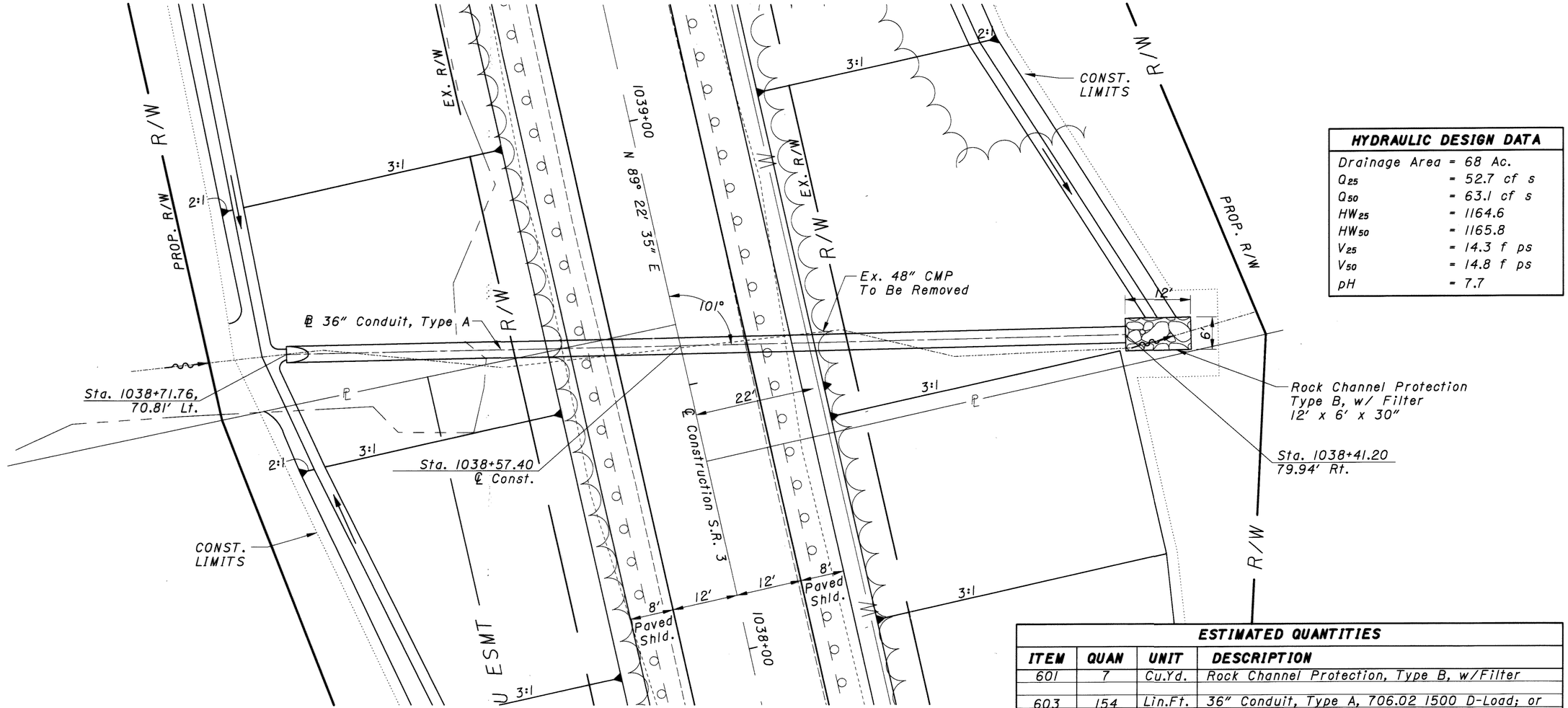
Quantities Carried to Plan Sheet 32



S.R. 94 CULVERT DETAIL
STA. 1051+94.72

MED-94-15.82

g:\tr\proj\58529\cad\dd02.dgn



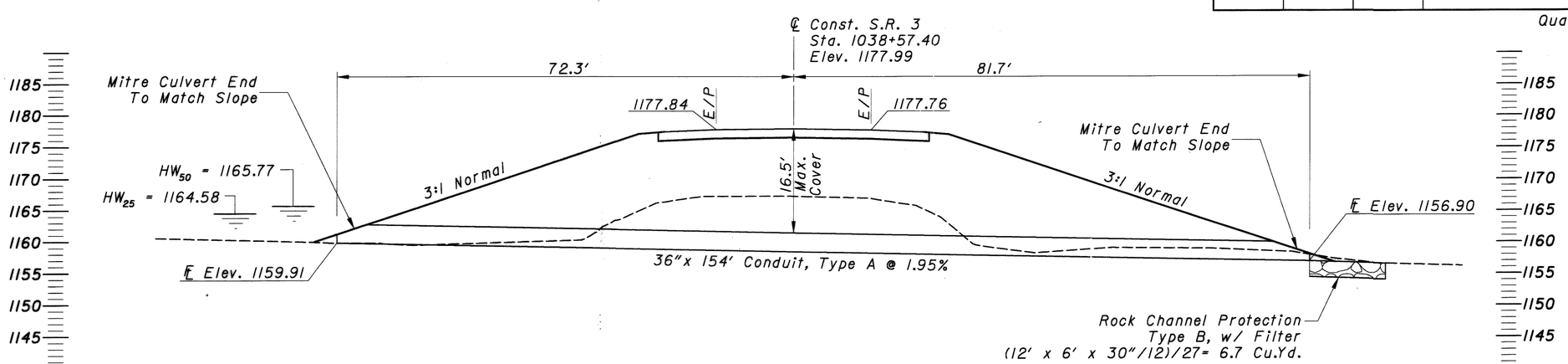
HYDRAULIC DESIGN DATA

Drainage Area	= 68 Ac.
Q_{25}	= 52.7 cf s
Q_{50}	= 63.1 cf s
HW_{25}	= 1164.6
HW_{50}	= 1165.8
V_{25}	= 14.3 f ps
V_{50}	= 14.8 f ps
pH	= 7.7

ESTIMATED QUANTITIES

ITEM	QUAN	UNIT	DESCRIPTION
601	7	Cu.Yd.	Rock Channel Protection, Type B, w/Filter
603	154	Lin.Ft.	36" Conduit, Type A, 706.02 1500 D-Load; or 42" 707.01 or 707.21

Quantities Carried to Plan Sheet 52



HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED BBD CHECKED JDP

S.R. 3 CULVERT DETAIL STA. 1038+57.40

MED-94-15.82

76 / 101

g:\tr\proj\58529\cad\dd01.dgn

TRAFFIC CONTROL SUBSUMMARY

CALCULATED BBD
CHECKED JDP

REFERENCE NO.	SHEET NO.	LOCATION	STATION TO STATION BEGIN	STATION TO STATION END	SIDE	CODE	SIGN SIZE LENGTH	SIGN SIZE HEIGHT	SIGN SIZE AREA	621 RAISED PAVEMENT MARKER 2-WAY (YELLOW/YELLOW)	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 SIGN, FLAT SHEET, TYPE G	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 4 POST	642 EDGE LINE WHITE, TYPE 2	642 CENTER LINE, TYPE 2 (DOUBLE SOLID)	642 CENTER LINE, TYPE 2 (BROKEN AND SOLID)	642 STOP LINE, TYPE 1, AS PER PLAN	644 TRANSVERSE LINE	644 CHANNELIZING LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 96 INCH
							IN.	IN.	SF.	EA.	EA.	EA.	SF.	FT.	FT.	FT.	MI.	MI.	MI.	FT.	FT.	FT.	EA.	EA.
EL-1	80-82	S.R. 94	818+85	1055+40	L												0.52	-		-	-	-	-	-
CL-1	80	S.R. 94	818+85	820+97	C					4									0.04					
EL-2	80-82	S.R. 94	818+85	1055+40	R												0.52							
CL-2	80-82	S.R. 94	820+97	1055+40	C					31								0.48						
1S	80	S.R. 94	-		R	-					2	1												
2S	80	S.R. 94	824+10		R	W-24-30	30	30	6.25				6.25		12.5									
2S	80	S.R. 94	824+10		R	D-8Y-8	36	8	2.00				2.00		-									
3S	81	S.R. 94	-		R	-					2	1												
4S	81	S.R. 94	830+90		R	SPECIAL	36	36	9.00				9.00		13.5									
4S	81	S.R. 94	830+90		R	SPECIAL	36	8	2.00				2.00		-									
5S	81	S.R. 94	833+55		L	M-38-24	24	12	2.00				2.00		13.5									
5S	81	S.R. 94	833+55		L	M-2-24-2	24	24	4.00				4.00		-									
6S	81	S.R. 94	-		L,						2	1												
7S	81	S.R. 94	834+00		R	M-17-24	24	12	2.00				2.00			15.5								
7S	81	S.R. 94	834+00		R	M-2-24-2	24	24	4.00				4.00			-								
7S	81	S.R. 94	834+00		R	IM-8-24	24	12	2.00				2.00			17.5								
7S	81	S.R. 94	834+00		R	IM-37-24	24	12	2.00				2.00			-								
7S	81	S.R. 94	834+00		R	M-5-24-2	24	24	4.00				4.00			-								
7S	81	S.R. 94	834+00		R	IM-24L-21	21	15	2.19				2.2			-								
7S	81	S.R. 94	834+00		R	N-58A-72	72	12	6.00				6.0			-								
8S	81	S.R. 94	-		R	-					6	2												
9S	81	S.R. 94	834+65		L	R-10-24	24	30	5.00				5.0	13.0										
10S	81	S.R. 94	-		L	-					1	1												
11S	81	S.R. 94	834+90		L	M-2-24-2	24	24	4.00				4.0											
11S	81	S.R. 94	834+90		L	M-24-21	21	15	2.19				2.2											
11S	81	S.R. 94	834+90		L	D-7-48	48	10	3.33				3.3	14.5,11										
12S	81	S.R. 94	-		L	-					1	2												
13S		NOT USED																						
14S	81	S.R. 3	1133+59		L	R-1-30	30	30	6.25				6.3	13.0										
15S	81	S.R. 3	-		L	-					1	1												
16S	81	S.R. 3	-		R	-					1	1												
17S	81	LEDGE RD	1134+71		R	R-1-30	30	30	6.25				6.3	13.0										
18S	81	S.R. 94	-		R	-					2	2												
19S		NOT USED																						
20S	81	S.R. 94	-		R	-					1	1												
21S	81	S.R. 94	836+75		R	R-10-24	24	30	5.00				5.0	13.0										
SL-1	81	S.R. 3	1133+99		R															38				
SL-2	81	LEDGE RD	1134+31		L															39				
22S	82	S.R. 94	837+75		L	SPECIAL	36	36	9.00				9.00		14.5									
22S	82	S.R. 94	837+75			SPECIAL	36	8	2.00				2.00		-									
23S	82	S.R. 94	-		L	-					2	1												
24S	82	S.R. 94	-		L	-					6	2												
25S	82	S.R. 94	838+15		L	M-38-24	24	12	2.00				2.00		15.0									
25S	82	S.R. 94	838+15		L	M-2-24-2	24	24	4.00				4.00		-									
25S	82	S.R. 94	838+15		L	M-26-21	21	15	2.19				2.19		-									
SUB-TOTALS THIS SHEET										35		16	98.65	77.5	69.0	33.0	1.04	0.48	0.04	77	0	0	0	0
TOTALS CARRIED TO SHEET 79										35		16	98.65	78	69	33	1.04	0.48	0.04	77	0	0	0	0

MED-94-15.82

ts01.dgn

REFERENCE NO.	SHEET NO.	LOCATION	STATION TO STATION BEGIN	STATION TO STATION END	SIDE	CODE	SIGN SIZE LENGTH	SIGN SIZE HEIGHT	SIGN SIZE AREA	621 RAISED PAVEMENT MARKER 2-WAY (YELLOW/YELLOW)	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 SIGN, FLAT SHEET, TYPE G	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 4 POST	642 EDGE LINE WHITE, TYPE 2	642 CENTER LINE, TYPE 2 (DOUBLE SOLID)	642 CENTER LINE, TYPE 2 (BROKEN AND SOLID)	642 STOP LINE, TYPE I, AS PER PLAN	644 TRANSVERSE LINE	644 CHANNELIZING LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 96 INCH
							IN.	IN.	SF.	EA.	EA.	EA.	SF.	FT.	FT.	FT.	MI.	MI.	MI.	FT.	FT.	FT.	EA.	EA.
25S	82	S.R. 94	838+15		L	M-38-24	24	12	2.00				2.00		15.5									
25S	82	S.R. 94	838+15		L	M-2-24-2	24	24	4.00				4.00		-				-	-	-	-	-	-
25S	82	S.R. 94	838+15		L	M-19-21	21	15	2.19				2.19		-									
26S	82	S.R. 94	-		L	-					1	1												
27S	82	S.R. 94	-		L	-					1	1												
28S	82	S.R. 94	840+35		L	W-79-30	30	30	6.25				6.25		13.5									
29S	82	S.R. 94	-		L	-					1	1												
30S	82	S.R. 94	-		R	-					3	1												
31S	82	S.R. 94	841+50		R	SPECIAL	18	24	3.00				3.00		15.0									
31S	82	S.R. 94	841+50		R	SPECIAL	15	18	1.88				1.88											
31S	82	S.R. 94	841+50		R	SPECIAL	15	12	1.25				1.25											
32S	82	S.R. 94	-		R	-					1	2												
33S	82	S.R. 94	105+72		R	N-1-40	40	20	5.56				5.56	12,12										
34S	82	S.R. 94	1052+00		L	W-24-30	30	30	6.25				6.25		13.5									
34S	82	S.R. 94	1052+00		L	W-143-18	18	18	2.25				2.25		-									
35S	82	S.R. 94	-		L	-					2	1												
36S	82	S.R. 94	-		R	-					2	1												
37S	82	S.R. 94	1052+10		R	W-24-30	30	30	6.25				6.25		13.5									
37S	82	S.R. 94	1052+10		R	W-143-18	18	18	2.25				2.25		-									
38S	82	S.R. 94	-		L	-					1	1												
39S	82	S.R. 94	1055+70		L	M-19-21	21	15	2.19				2.19											
40S	82	S.R. 94	-		R	-					3	1												
41S	82	S.R. 94	1053+40		R	M-37-24	24	12	2.00				2.00			15.5								
41S	82	S.R. 94	1053+40		R	M-2-24-2	24	24	4.00				4.00			-								
41S	82	S.R. 94	1053+40		R	M-2-24-2	24	24	4.00				4.00			-								
42S	82	S.R. 94	1053+60		L	N-58A-72	72	12	6.00				6.00		12.5,13									
42S	82	S.R. 94	1053+60		L	N-58A-72	72	12	6.00				6.00		-									
43S	82	S.R. 94	-		L	-					2	2												
3-EL	83	S.R. 3	1035+60	1138+15	L												0.30							
4-EL	83	S.R. 3	1035+60	1138+15	R												0.30							
2-CL	83	S.R. 3	1035+60	1138+15	C					20								0.30						
44S	83	S.R. 3	-		R	-					1	1												
45S	83	S.R. 3	1038+30		R	W-45A-36	36	36	9.00				9.00		14.5									
46S	83	S.R. 3	-		R	-					2	1												
47S	83	S.R. 3	1038+80		R	M-2-24-2	24	24	4.00				4.00		14.0									
47S	83	S.R. 3	1038+80		R	M-21-21	21	15	2.19				2.19		-									
48S	83	S.R. 3	-		R	-					3	1												
49S	83	S.R. 3	1128+35		R	IM-8-24	24	12	2.00				2.00		15.0									
CL-3	80-81	S.R. 94	820+97	828+52	R					9								0.14						
TL-1	81	S.R. 94	820+97	828+52	R																398			
CH-1	81	S.R. 94	828+72	834+52	R																	580		
CH-2	81	S.R. 94	835+91	836+76	C																	85		
CL-4	81	S.R. 94	836+91	1053+65	L					9								0.14						
TL-2	82	S.R. 94	836+91	1053+65	L																398			
SUB-TOTALS THIS SHEET										38	23	15	84.49	24.0	140.0	15.5	0.60	0.58	0.00	0	796	665	0	0
TOTALS CARRIED TO SHEET 79										38	23	15	84.49	24	140	16	0.60	0.58	0.00	0	796	665	0	0

CALCULATED BBD
CHECKED JDP

TRAFFIC CONTROL SUBSUMMARY

MED-94-15.82

ts02.dgn

REFERENCE NO.	SHEET NO.	LOCATION	STATION TO STATION		SIDE	CODE	SIGN SIZE			621	630	630	630	630	630	630	642	642	642	642	644	644	644	644
			BEGIN	END			LENGTH	HEIGHT	AREA	RAISED PAVEMENT MARKER 2-WAY (YELLOW/YELLOW)	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	SIGN, FLAT SHEET, TYPE G	GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED SUPPORT, NO. 4 POST	EDGE LINE WHITE, TYPE 2	CENTER LINE, TYPE 2 (DOUBLE SOLID)	CENTER LINE, TYPE 2 (BROKEN AND SOLID)	STOP LINE, TYPE I, AS PER PLAN	TRANSVERSE LINE	CHANNELIZING LINE	LANE ARROW	WORD ON PAVEMENT, 96 INCH
							IN.	IN.	SF.	EA.	EA.	EA.	SF.	FT.	FT.	FT.	MI.	MI.	MI.	FT.	FT.	FT.	EA.	EA.
49S	83	S.R. 3	1128+35	-	R	M-5C-24-3	30	24	5.00	-			5.00	-	-		-	-	-	-	-	-	-	-
49S	83	S.R. 3	1128+35		R	IM-26-21	21	15	2.19				2.19		-									
50S	83	S.R. 3	-		L	-					2	1												
51S	83	S.R. 3	1041+60		L	SPECIAL	24	24	4.00				4.00		14.0									
51S	83	S.R. 3	1041+60		L	SPECIAL	18	18	2.25				2.25		-									
52S	83	S.R. 3	-		R	-					6	2												
53S	83	S.R. 3	1128+65		R	M-17-24	24	12	2.00				2.00			20,20								
53S	83	S.R. 3	1128+65		R	M-2-24-2	24	24	4.00				4.00			-								
53S	83	S.R. 3	1128+65		R	N-58A-72	72	12	6.00				6.00			-								
53S	83	S.R. 3	1128+65		R	SPECIAL	36	36	9.00				9.00			-								
53S	83	S.R. 3	1128+65		R	SPECIAL	36	16	4.00				4.00			-								
53S	83	S.R. 3	1128+65		R	SPECIAL	36	8	2.00				2.00			-								
54S	83	S.R. 3	-		L	-					1	1												
55S	83	S.R. 3	-		L	-					1	1												
56S	84	S.R. 3	1133+60		L	M-2-24-2	24	24	4.00				4.00		14.0									
56S	84	S.R. 3	1133+60		L	M-25-21	21	15	2.19				2.19		-									
56S	84	S.R. 3	1133+60		L	IM-8-24	24	12	2.00				2.00			15.0								
56S	84	S.R. 3	1133+60		L	M-5-24-2	24	24	4.00				4.00			-								
56S	84	S.R. 3	1133+60		L	IM-26-21	21	15	2.19				2.19			-								
56S	84	S.R. 3	1133+60		L	M-2-24-2	24	24	4.00				4.00		14.0									
56S	84	S.R. 3	1133+60		L	M-29-21	21	15	2.19				2.19		-									
57S	84	S.R. 3	-		R	-					4	2												
58S	84	LEDGE RD	1134+65		R	M-2-24-2	24	24	4.00				4.00		14.0									
58S	84	LEDGE RD	1134+65		R	M-24L-21	21	15	2.19				2.19											
58S	84	LEDGE RD	1134+65		R	M-2-24-2	24	24	4.00				4.00		14.0									
58S	84	LEDGE RD	1134+65		R	M-25-21	21	15	2.19				2.19											
58S	84	LEDGE RD	1134+65		R	IM-8-24	24	12	2.00				2.00			15.0								
58S	84	LEDGE RD	1134+65		R	M-5C-24-3	30	24	5.00				5.00											
58S	84	LEDGE RD	1134+65		R	IM-24R-21	21	15	2.19				2.19											
59S	84	LEDGE RD	-		L	-					1	2												
60S	84	LEDGE RD	1134+45		L	M-2-24-2	24	24	4.00				4.00											
60S	84	LEDGE RD	1134+45		L	M-30-21	21	15	2.19				2.19											
60S	84	LEDGE RD	1134+45		L	D-7-48	48	10	3.33				3.33	15,11.5										
61S	84	LEDGE RD	-		R	-					2	1												
62S	84	LEDGE RD	1135+15		R	M-6-18	18	18	2.25				2.25		14.5									
62S	84	LEDGE RD	1135+15		R	R-77A-30	30	30	6.25				6.25											
63S	83	S.R. 3	1036+41		L	-					1	1												
64S	83	S.R. 3	1036+41		L	-					1	1												
65S	81	S.R. 94	828+50		R	R-31A-36	36	30	7.50				7.50	14.5,15										
66S	81	S.R. 94	836+90		L	R-31A-36	36	30	7.50				7.50	14.5,15										
SUB-TOTALS THIS SHEET										0	19	12	115.58	85.5	84.5	70.0	0.00	0.00	0.00	0	0	0	0	0
TOTALS THIS SHEET										0	19	12	115.58	86	85	70	0.00	0.00	0.00	0	0	0	0	0
TOTALS FROM SHEET 77										35	27	16	98.65	78	69	33	1.04	0.48	0.04	77	0	0	0	0
TOTALS FROM SHEET 78										38	23	15	84.49	24	140	16	0.60	0.58	0.00	0	796	665	0	0
TOTALS FROM SHEET 81										0	0	0	0.00	0	0	0	0	0	0	0	0	0	5	2
TOTALS CARRIED TO GENERAL SUMMARY										73	69	43	298.7	188	294	119	1.64	1.10		77	796	665	5	2

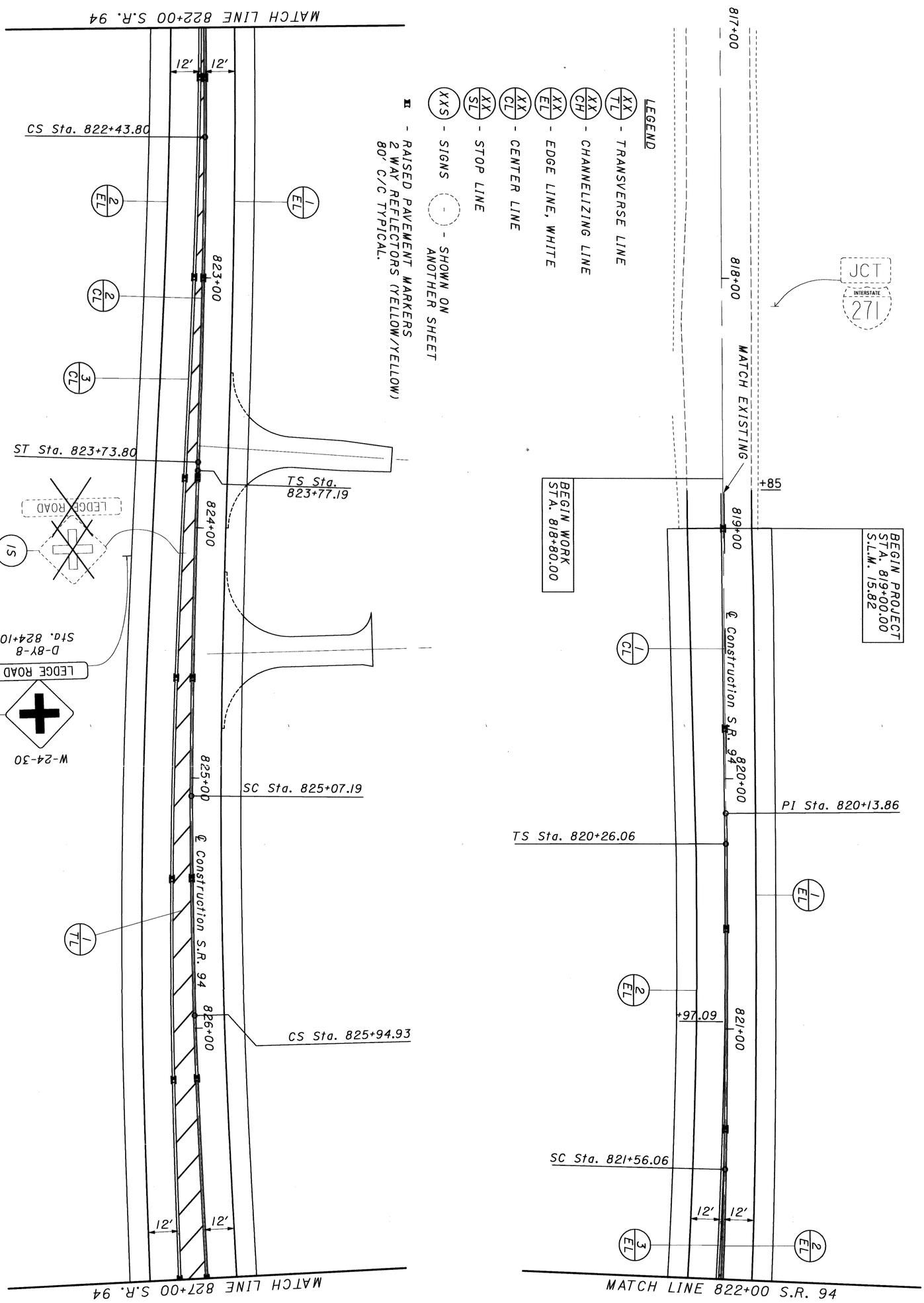
CALCULATED BBD
CHECKED JDP

TRAFFIC CONTROL SUBSUMMARY

MED-94-15.82

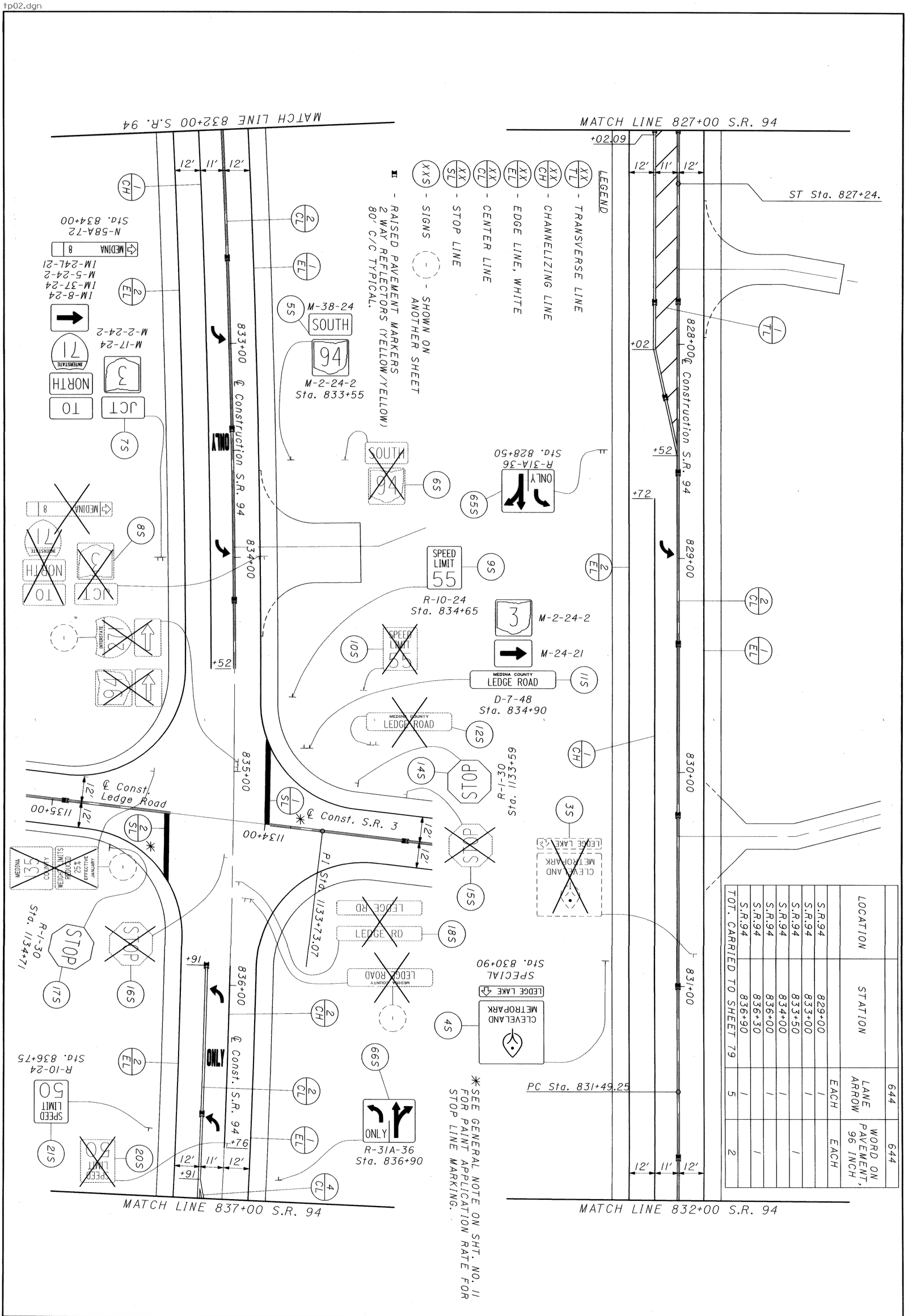
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80 / 101	MED-94-15.82	S.R. 94 SIGNING AND PAVEMENT MARKING PLAN STA. 817+00 TO STA 827+00	CALCULATED BBD / CHECKED JDP	0 20 40 HORIZONTAL SCALE IN FEET

tp02.dgn

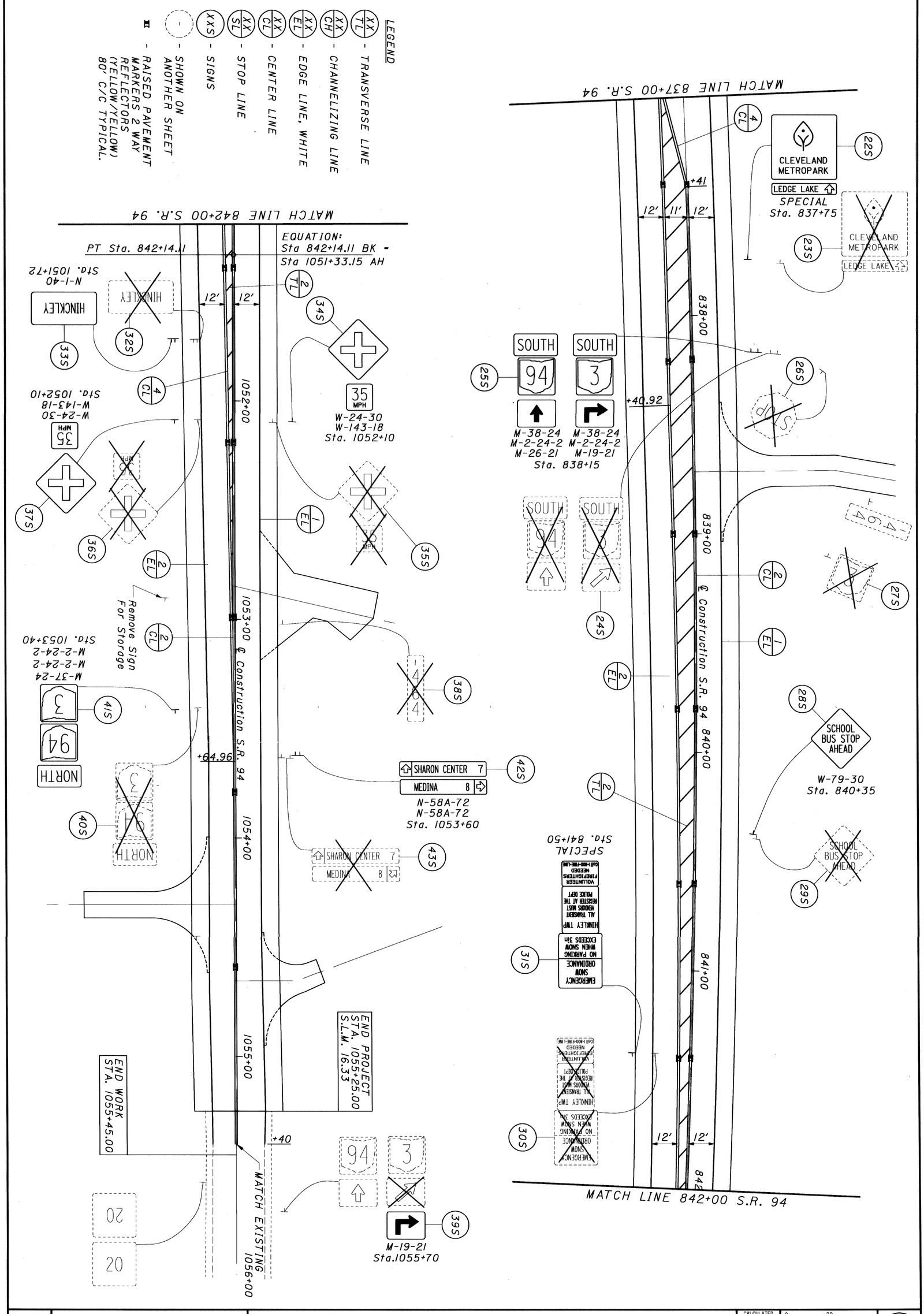


* SEE GENERAL NOTE ON SHT. NO. 11 FOR PAINT APPLICATION RATE FOR STOP LINE MARKING.

LOCATION	STATION	LANE ARROW EACH	WORD ON PAVEMENT, 96 INCH EACH
		644	644
TOT. CARRIED TO SHEET 79		5	2
S.R.94	829+00	1	
S.R.94	833+00	1	
S.R.94	833+50	1	1
S.R.94	834+00	1	
S.R.94	836+00	1	
S.R.94	836+30	1	1
S.R.94	836+90	1	

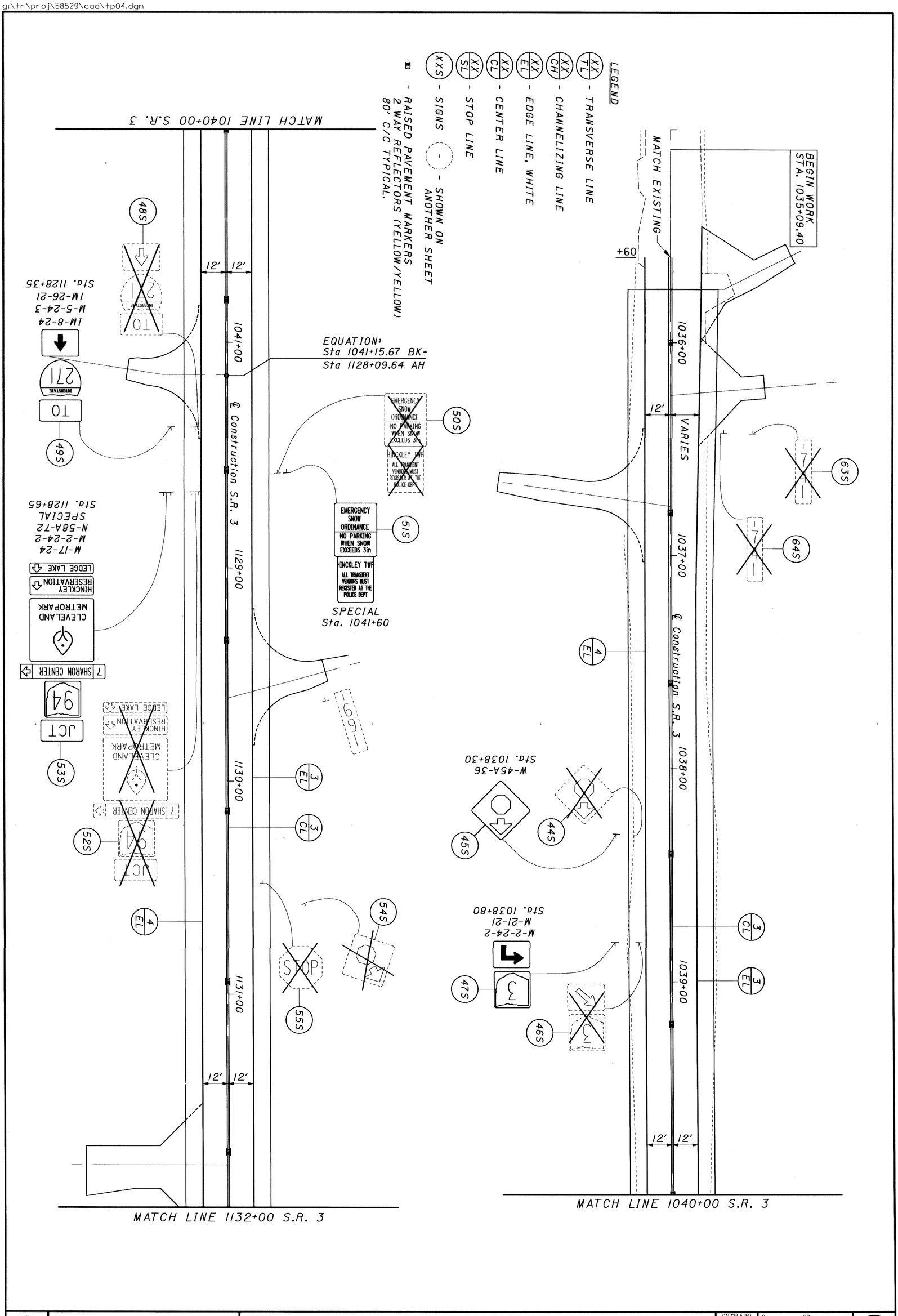
101 / 81	MED-94-15.82	S.R. 94 SIGNING AND PAVEMENT MARKING PLAN STA. 827+00 TO STA. 837+00	CALCULATED BBD	0 20 40	N
			CHECKED JDP	HORIZONTAL SCALE IN FEET	

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82 / 101	MED-94-15.82	S.R. 94 SIGNING AND PAVEMENT MARKING PLAN STA. 837+00 TO STA. 1056+00	CALCULATED BBD / CHECKED JDP	0 20 40 HORIZONTAL SCALE IN FEET

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83/101	MED-94-15.82	S.R. 3 SIGNING AND PAVEMENT MARKING PLAN STA. 1035+00 TO STA. 1132+00	CALCULATED BBD / CHECKED JDP	0 20 40 HORIZONTAL SCALE IN FEET

S.R. 3 SIGNING AND PAVEMENT MARKING PLAN
STA. 1132+00 TO STA. 1138+00

CALCULATED BBD | CHECKED JDP

HORIZONTAL SCALE IN FEET
0 20 40

MED-94-15.82

84/101

MATCH LINE 1132+00 S.R. 3

MATCH LINE 1137+00 S.R. 3

℄ Construction S.R. 3

℄ Construction Ledge Road

℄ Const. S.R. 94

1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00

12' 11' 12'

836+00

835+00

PI Sta. 1133+73.07

Sta. 835+91

Sta. 834+65

Sta. 834+90

Sta. 834+53

Sta. 1133+59

Sta. 1133+60

Sta. 1134+45

Sta. 1134+71

Sta. 1135+15

END WORK
STA. 1138+20.00

+15

MATCH EXISTING

R-1-30 Sta. 835+91

M-2-24-2 IM-8-24 M-2-24-2 M-29-21
M-25-21 M-5-24-2
IM-26-21

R-10-24 Sta. 834+65

D-7-48 Sta. 834+90

R-1-30 Sta. 834+53

R-1-30 Sta. 1133+59

M-24-21

M-2-24-2

M-2-24-2 M-2-24-2 IM-8-24
M-24L-21 M-25-21 IM-5-24-3
IM-24R-21

R-1-30 Sta. 1134+71

D-7-48 Sta. 1134+45

M-30-21

M-6-18 R-77A-30 Sta. 1135+15

LEGEND

- XX/TL - TRANSVERSE LINE
- XX/CH - CHANNELIZING LINE
- XX/EL - EDGE LINE, WHITE
- XX/CL - CENTER LINE
- XX/SL - STOP LINE
- XXS - SIGNS
- (-) - SHOWN ON ANOTHER SHEET
- RAISED PAVEMENT MARKERS 2 WAY REFLECTORS (YELLOW/YELLOW) 80' C/C TYPICAL.

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MED-94-15.82
TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

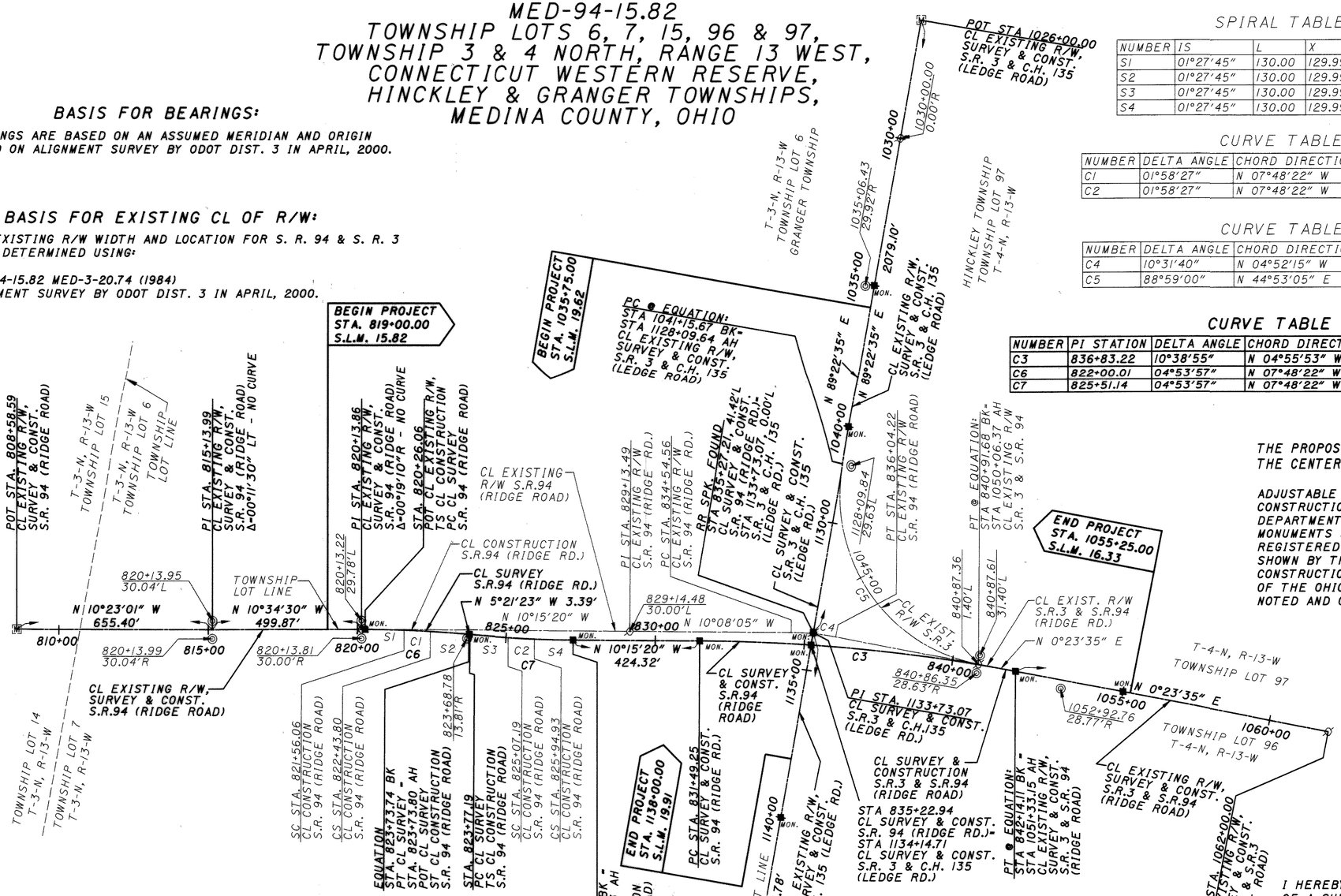
BASIS FOR BEARINGS:

BEARINGS ARE BASED ON AN ASSUMED MERIDIAN AND ORIGIN BASED ON ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.



SPIRAL TABLE FOR CL CONSTRUCTION

NUMBER	IS	L	X	Y	P	K	LT	ST	DS
S1	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"
S2	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"
S3	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"
S4	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"

CURVE TABLE FOR CL CONSTRUCTION

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C1	01°58'27"	N 07°48'22" W	43.87	2546.48	87.74	87.73
C2	01°58'27"	N 07°48'22" W	43.87	2546.48	87.74	87.73

CURVE TABLE FOR CL EXISTING R/W

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C4	10°31'40"	N 04°52'15" W	75.04	814.49	149.66	149.45
C5	88°59'00"	N 44°53'05" E	563.43	573.52	890.70	803.85

CURVE TABLE FOR CL SURVEY

NUMBER	PI STATION	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C3	836+83.22	10°38'55"	N 04°55'53" W	533.97	5729.58	1064.86	1063.33
C6	822+00.01	04°53'57"	N 07°48'22" W	173.95	4066.15	347.68	347.58
C7	825+51.14	04°53'57"	N 07°48'22" W	173.95	4066.15	347.68	347.58

THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF SURVEY.

ADJUSTABLE CENTERLINE MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM I.I. (REV. 4-29-99) OF THE OHIO DEPARTMENT OF TRANSPORTATION, THE PLACING OF THE MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AND ARE TO BE SET, AS SHOWN BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION. ANY ALTERATIONS, WITH PRIOR APPROVAL OF THE OHIO DEPARTMENT OF TRANSPORTATION, SHALL BE NOTED AND O.D.O.T. SHALL BE NOTIFIED OF THE NEW LOCATIONS.

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ∅ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.P.F. IRON PIN FOUND WITH I.D. CAP
- ⊙P.F. IRON PIPE FOUND
- ●I.P.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

MONUMENTS TO BE SET DURING CONSTRUCTION

CL SURVEY STA S.R.94	CL SURVEY STA S.R.3/C.H.135	DISTANCE FROM CL SURVEY LEFT	DISTANCE FROM CL SURVEY RIGHT	ADJUSTABLE CL MONUMENT	RIGHT OF WAY MONUMENT
PC 820+26.06				1	
POT 823+75.00				1	
PT 827+24.93				1	
PC 831+49.25				1	
STA 835+22.94 ● CL SURVEY C.H.135	STA 1134+14.71 ● CL SURVEY S.R.94			1	
PT 1051+33.15				1	
POT 1055+00.00				1	
	POT 1035+00.00			1	
	POT 1040+00.00			1	
	PI 1133+73.07			1	
	POT 1140+00.00			1	
TOTAL				11	

NOTES:
1) THE SPIRAL CURVES ON THE CONSTRUCTION CENTERLINE HAVE BEEN REPLACED WITH SUBSTITIUTION CURVES FOR THE CENTERLINE OF SURVEY.
2) ALL OFFSET CALLS ARE FROM THE CENTERLINE OF SURVEY.
3) DOCUMENTS USED IN ESTABLISHING THE EXISTING PROPERTY LINES AND CENTERLINES ARE AS SHOWN ON THE RIGHT OF WAY PLAN SHEETS.
4) LINES OF OCCUPATION IN GENERAL AGREE WITH THE BOUNDARY LINES AS SHOWN ON THE RIGHT OF WAY PLAN SHEETS

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN MAY, 2001 BY WOOLPERT LLP.

THE ESTABLISHMENT OF THE PROPERTY LINES AND EXISTING RIGHT OF WAY LINES SHOWN ON THIS PLAN AS OF THIS DATE WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

BY _____
STEVEN W. NEWELL, OHIO REGISTERED SURVEYOR

SURVEYOR NO. 7212 DATE 9/16/02

RECEIVED _____, 2001
RECORDED _____
BOOK _____ PAGE _____
COUNTY RECORDER

STATE OF OHIO STEVEN WAYNE NEWELL S-7212 REGISTERED PROFESSIONAL SURVEYOR

REV.	DATE	DESCRIPTION
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET: 0, 100, 200, 400

PID NO. 19334

R/W DESIGNER CTJ
R/W REVIEWER SWN

CENTERLINE PLAT

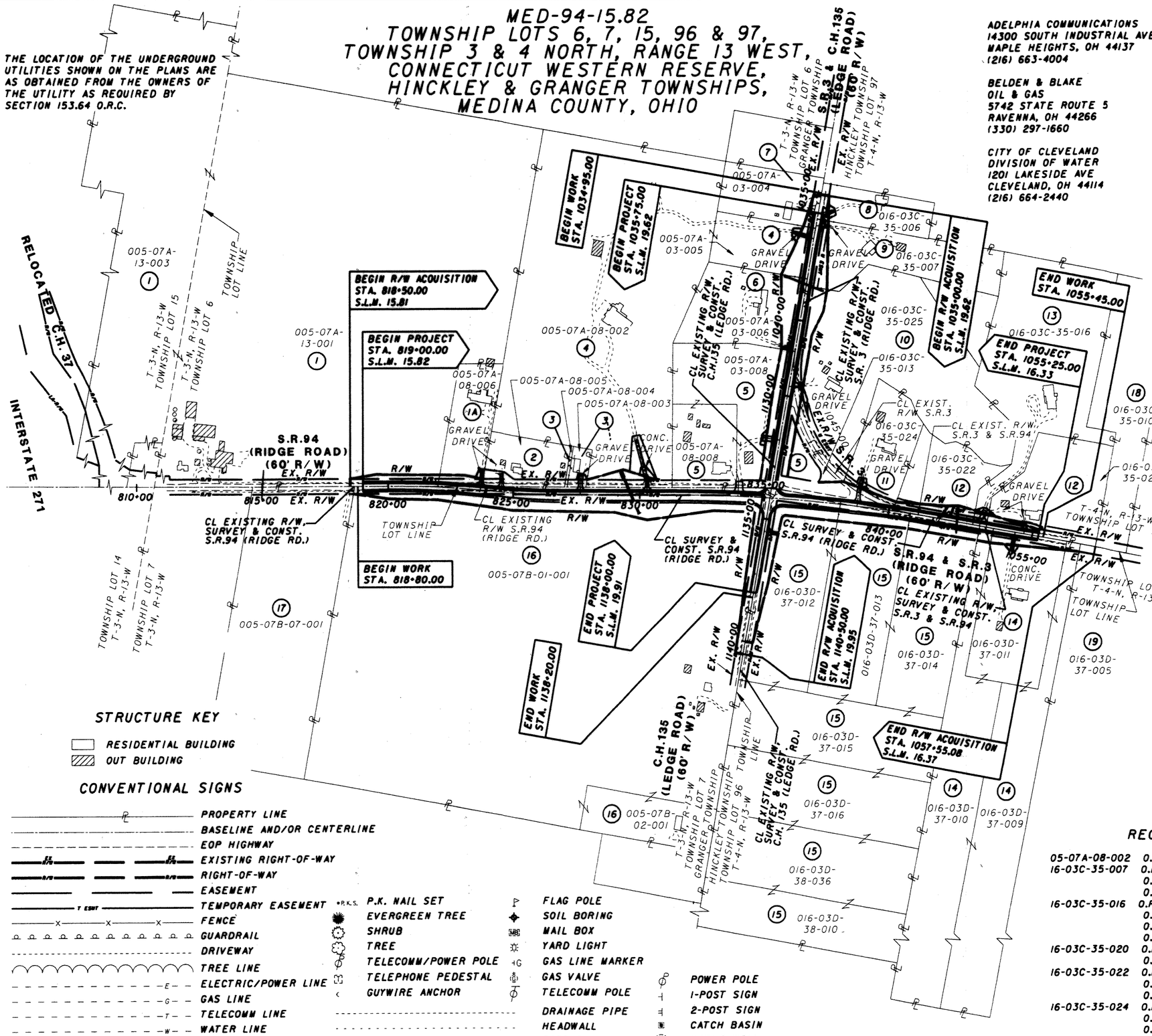
MED-94-15.82

1/1
1/17
85/101

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MED-94-15.82
TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 O.R.C.



STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

CONVENTIONAL SIGNS

- PROPERTY LINE
- BASELINE AND/OR CENTERLINE
- EOP HIGHWAY
- EXISTING RIGHT-OF-WAY
- RIGHT-OF-WAY
- EASEMENT
- TEMPORARY EASEMENT
- FENCE
- GUARDRAIL
- DRIVEWAY
- TREE LINE
- ELECTRIC/POWER LINE
- GAS LINE
- TELECOMM LINE
- WATER LINE
- DITCH
- P.K. NAIL SET
- EVERGREEN TREE
- SHRUB
- TREE
- TELECOMM/POWER POLE
- TELEPHONE PEDESTAL
- GUYWIRE ANCHOR
- FLAG POLE
- SOIL BORING
- MAIL BOX
- YARD LIGHT
- GAS LINE MARKER
- GAS VALVE
- TELECOMM POLE
- DRAINAGE PIPE
- HEADWALL
- RIPRAP
- POWER POLE
- 1-POST SIGN
- 2-POST SIGN
- CATCH BASIN
- WATER WELL

UTILITY OWNERS

ADELPHIA COMMUNICATIONS
14300 SOUTH INDUSTRIAL AVE
MAPLE HEIGHTS, OH 44137
(216) 663-4004

BELDEN & BLAKE
OIL & GAS
5742 STATE ROUTE 5
RAVENNA, OH 44266
(330) 297-1660

CITY OF CLEVELAND
DIVISION OF WATER
1201 LAKESIDE AVE
CLEVELAND, OH 44114
(216) 664-2440

COLUMBIA GAS OF OHIO, INC.
ATTN: DAMAGE PREVENTION
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OH 44130
(440) 891-2454

GATHERCO.
6273 FRANK AVE. NW
NORTH CANTON, OH 44720
(330) 498-9553

OHIO EDISON
6326 LAKE AVE
ELYRIA, OH 44035-1198
(440) 326-3207

VERIZON
6223 NORWALK RD
MEDINA, OH 44256
(330)722-9591

MEDINA COUNTY
SANITARY DEPT.
791 W. SMITH ROAD
MEDINA, OH 44258
(330) 723-9585

MEDINA COUNTY
ENGINEER
P.O. BOX 825
MEDINA, OH 44256
(330) 723-3641

PROPERTY OWNERS

1. RONALD W. ALBER & NANCY ALBER, TRUSTEES, RONALD W. & NANCY ALBER LIVING TRUST DATED NOVEMBER 29, 1995 (1/2 INTEREST) AND DENNIS S. ALBER AND IRENE J. ALBER (1/2 INTEREST)
- 1A. RONALD W. ALBER & NANCY ALBER, TRUSTEES, RONALD W. & NANCY ALBER LIVING TRUST DATED NOVEMBER 29, 1995
2. EMIL NECZYPOR & NANCY NECZYPOR
3. DANIEL JOHN CONNORS
4. GLENN R. SMITH & CAROLYN J. SMITH
5. VLADAN VASILJEVIC & MILKA VASILJEVIC
6. JOSEPH F. HOBZEK, JR.
7. DANIEL J. HADAM
8. ALAN WOJTONEK AND PAMELA WOJTONEK
9. DENNIS P. SELZER & JUDY G. SELZER
10. RICHARD KEELING & DOROTHY KEELING, CHARLES VEVERKA (DECEASED) AND HENRIETTA VEVERKA, LIFE ESTATE
11. RICHARD S. KEELING & LAURA A. KOLESAR, CHARLES VEVERKA (DECEASED) AND HENRIETTA VEVERKA, LIFE ESTATE
12. DOROTHY KEELING, CHARLES VEVERKA (DECEASED) AND HENRIETTA VEVERKA, LIFE ESTATE
13. JOSEPH HUDAK
14. DAVID A. MORETZ, JR. & JACQUELINE E. MORETZ
15. ALICE C. DOLAMORE, TRUSTOR/TRUSTEE, OF THE PAHOUNDIS-DOLAMORE FAMILY TRUST, DATED JULY 2, 1998
16. ROBERT JOHN LUCHT
17. BRIAN LEE ALBER
18. GOLDIE M. MUELLER
19. ROBERT E. THORSELL & ROBERTA J. THORSELL

RECORDED UTILITY EASEMENTS:

05-07A-08-002	O.R. 468, PG. 678	16-03C-35-025	O.R. 322, PG. 702
16-03C-35-007	O.R. 322, PG. 700		O.R. 502, PG. 696
	O.R. 502, PG. 696		O.R. 127, PG. 833
	O.R. 127, PG. 833		O.R. 412, PG. 30
16-03C-35-016	O.R. 947, PG. 84	16-03D-37-011	O.R. 412, PG. 30
	O.R. 502, PG. 696		
	O.R. 127, PG. 833		
	O.R. 412, PG. 30		
16-03C-35-020	O.R. 502, PG. 696		
	O.R. 127, PG. 833		
16-03C-35-022	O.R. 502, PG. 696		
	O.R. 127, PG. 833		
	O.R. 412, PG. 30		
16-03C-35-024	O.R. 1160, PG. 370		
	O.R. 502, PG. 696		
	O.R. 127, PG. 833		
	O.R. 412, PG. 30		

REV.	DATE	DESCRIPTION
4	8-04-03	ADDED PARCEL 4-WA
3	01-06-03	PROPERTY OWNERS, MODIFIED TAKES
2	9-16-02	PROPERTY OWNERS
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT

DATE OF COMPLETION

SCALE IN FEET: 0, 100, 200, 400

PID NO. 19334

R/W DESIGNER: CTJ
R/W REVIEWER: SMH

PROPERTY MAP

MED-94-15.82

2 / 17

86 / 101

S:\SV\PROJ\59254 MED 94 ROW\DGNS\59254PROP.dgn

TOTAL NUMBER OF:

16 OWNERSHIPS
39 TOTAL PARCELS
0 TOTAL TAKES

0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1	RONALD W. ALBER & NANCY ALBER, TRUSTEES		O.R. 1141	208	005-07A-13-003	31.3900	1.8100	0.0000	0.0000	0.0000	NO	29.5800			(NO R/W REQUIRED)		
	RONALD W. ALBER & NANCY ALBER LIVING TRUST																
	DATED NOVEMBER 29, 1995 (1/2 INTEREST)																
	DENNIS S. ALBER & IRENE J. ALBER (1/2 INTEREST)		D.V. 512	101													
1-WD	RONALD W. ALBER & NANCY ALBER, TRUSTEES	5,6	O.R. 1141	208	005-07A-13-001	49.5190	0.8258	0.3609	0.2411	0.1198	NO	48.5734			* 115' OF WIRE FENCE		
	RONALD W. ALBER & NANCY ALBER LIVING TRUST																
	DATED NOVEMBER 29, 1995 (1/2 INTEREST)																
	DENNIS S. ALBER & IRENE J. ALBER (1/2 INTEREST)		D.V. 512	101													
1A-WD	RONALD W. ALBER & NANCY ALBER, TRUSTEES	6	O.R. 1141	213	005-07A-08-006	1.9810	0.1205	0.1702	0.1205	0.0497	NO	1.8108			GRADING/CONSTRUCTION LIMITS		
	RONALD W. ALBER & NANCY ALBER LIVING TRUST																
	DATED NOVEMBER 29, 1995																
1A-T		6						0.0230	0.0000	0.0230	NO				REGRADE DRIVEWEAY APPROACH		
2-WD	EMIL NECZYPOR & NANCY NECZYPOR	6,7	O.R. 408	519	005-07A-08-005	1.4600	0.2269	0.2269	0.2269	0.0000	NO	1.2331			GRADING/CONSTRUCTION LIMITS		
2-T		6,7						0.0769	0.0000	0.0769	NO				REGRADE DRIVEWAY APPROACH		
3-WD	DANIEL JOHN CONNORS	7	O.R. 318	134	005-07A-08-004	0.0400	0.0070	0.0070	0.0070	0.0000	NO	0.0330			GRADING/CONSTRUCTION LIMITS		
3-WD1		7	O.R. 318	134	005-07A-08-003	0.2680	0.0506	0.0506	0.0506	0.0000	NO	0.2174			GRADING/CONSTRUCTION LIMITS		
	TOTALS					0.3080	0.0576	0.0576	0.0576	0.0000		0.2504					
3-T		7						0.0183	0.0000	0.0183	NO				REGRADE DRIVEWAY APPROACH		
4-WD	GLENN R. SMITH & CAROLYN J. SMITH	7,8	O.R. 349	411	005-07A-08-002	26.4470	0.2345	0.3687	0.2345	0.1342	NO	26.0783			GRADING/CONSTRUCTION LIMITS		
4-WD1		13,14	O.R. 349	411	005-07A-03-005	1.8300	0.1377	0.3558	0.1377	0.2181	NO		1.4742		GRADING/CONSTRUCTION LIMITS		
	TOTALS					28.2770	0.3722	0.6662	0.3722	0.2940		26.0783	1.5325				
4-T		8						0.0397	0.0000	0.0397	NO				REGRADE DRIVEWAY APPROACH		
4-T1		13						0.0304	0.0000	0.0304	NO				REGRADE DRIVEWAY APPROACH		
4-WA		8													DRIVEWAY CONSTRUCTION		
5-WD	VLADAN VASILJEVIC & MILKA VASILJEVIC	8,9	O.R. 1118	668	005-07A-08-008	2.0000	0.1791	0.1791	0.1791	0.0000	NO	1.8209			* 390' OF WIRE FENCE		
5-WD1		9,14,15,16	O.R. 1118	668	005-07A-03-008	3.8996	0.4594	0.7770	0.4594	0.3176	NO	3.1226			* 110' OF WIRE FENCE		
5-WD2		9,10,15,16	D.V. 465	191	016-03C-35-013	1.5506	1.0802	0.9717	0.8438	0.1279	NO	0.3425			GRADING/CONSTRUCTION LIMITS		
	TOTALS					7.4502	1.7187	2.1643	1.7187	0.4456		5.2859					
5-T		15						0.0244	0.0000	0.0244	NO				REGRADE DRIVEWAY APPROACH		
6-WD	JOSEPH F. HOBZEK, JR.	14	DOC.#200202R007299		005-07A-03-006	3.1150	0.1985	0.5294	0.1985	0.3309	NO		2.5856		GRADING/CONSTRUCTION LIMITS		
7-WD	DANIEL J. HADAM	13	DOC.#200102R000763		005-07A-03-004	1.8300	0.1377	0.1186	0.0889	0.0297	NO		1.6626		GRADING/CONSTRUCTION LIMITS		
8-WD	ALAN WOJTONEK AND PAMELA WOJTONEK	13	DOC.#200202R042862		016-03C-35-006	1.4875	0.0992	0.0849	0.0679	0.0170	NO	1.3713			GRADING/CONSTRUCTION LIMITS		
8-T		13						0.0245	0.0000	0.0245	NO				REGRADE DRIVEWAY APPROACH		
9-WD	DENNIS P. SELZER & JUDY G. SELZER	13,14	O.R. 241	184	016-03C-35-007	3.1513	0.1811	0.3926	0.1811	0.2115	NO	2.7587			GRADING/CONSTRUCTION LIMITS		

STATE OF OHIO

O.R. = OFFICIAL RECORD
D.V. = DEED VOLUME
DOC.# = DOCUMENT NUMBER

NOTE: ALL TEMPORARY PARCELS TO BE OF 18 MONTHS DURATION.

* DENOTES R/W ENCROACHMENT

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

REV.	DATE	DESCRIPTION
5	08-04-03	ADDED PARCEL 4-WA
4	01-06-03	PROPERTY OWNERS
3	11-04-02	MODIFIED TAKES
2	9-16-02	PROPERTY OWNERS
1	6-11-02	MODIFIED TAKES

DATE OF COMPLETION

FEDERAL PROJECT NO.

PID NO. 19334

STATE JOB NO. 4322(0)

R/W DESIGNER CTJ
R/W REVIEWER SMM

SUMMARY OF ADDITIONAL RIGHT OF WAY

MED-94-15.82

3/17

87/101

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NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
10-WD	RICHARD KEELING & DOROTHY KEELING,	10,14,15	O.R. 1127	379	016-03C-35-025	9.8934	0.5680	0.6238	0.3207	0.3031	NO	9.0223			GRADING/CONSTRUCTION LIMITS		
	CHARLES VEVRKA (DECEASED) & HENRIETTA		O.R. 298	260													
	VEVERKA, LIFE ESTATE																
10-T		15						0.0229	0.0000	0.0229	NO				GRADING/CONSTRUCTION LIMITS		
11-WD	RICHARD S. KEELING & LAURA A. KOLESAR,	10,11	O.R. 1227	285	016-03C-35-024	2.1577	0.1578	0.1170	0.1156	0.0014	NO	1.9985			GRADING/CONSTRUCTION LIMITS		
	CHARLES VEVERKA (DECEASED) & HENRIETTA		O.R. 298	260													
	VEVERKA, LIFE ESTATE																
11-T		10						0.0261	0.0000	0.0261	NO				REGRADE DRIVEWAY APPROACH		
12-WD	DOROTHY KEELING, CHARLES VEVERKA (DECEASED)	11	O.R. 1127	371	016-03C-35-022	2.2199	0.2199	0.3671	0.2199	0.1472	NO	1.8528			GRADING/CONSTRUCTION LIMITS		
12-WD1	& HENRIETTA VEVERKA, LIFE ESTATE	12	O.R. 1127	371	016-03C-35-020	3.5299	0.3044	0.3520	0.3044	0.0476	NO	3.1779			GRADING/CONSTRUCTION LIMITS		
			O.R. 298	260													
	TOTALS					5.7498	0.5243	0.7191	0.5243	0.1948	NO	5.0307					
12-T		12						0.0289	0.0000	0.0289	NO				REGRADE DRIVEWAY APPROACH		
12-T1		12						0.0059	0.0000	0.0059	NO				REGRADE DRIVEWAY APPROACH		
13-WD	JOSEPH HUDAK	11,12	O.R. 937	171	016-03C-35-016	7.6341	0.0379	0.0688	0.0379	0.0309	NO	7.5653			GRADING/CONSTRUCTION LIMITS		
13-T		11,12						0.0193	0.0000	0.0193	NO				REGRADE DRIVEWAY APPROACH		
14-WD	DAVID A. MORETZ, JR. & JACQUELINE E. MORETZ	12	O.R. 897	657	016-03D-37-011	4.1022	0.2058	0.3247	0.2058	0.1188	NO		3.7776		GRADING/CONSTRUCTION LIMITS		
14-WD1		11,12	O.R. 897	659	016-03D-37-010	7.8792	0.0379	0.0758	0.0379	0.0379	NO		7.8034		GRADING/CONSTRUCTION LIMITS		
14-WD2		12	O.R. 897	655	016-03D-37-009	7.8852	0.0379	0.0408	0.0379	0.0029	NO		7.8444				
	TOTALS					19.8666	0.2816	0.4146	0.2816	0.1330			19.4520				
14-T		12						0.0219	0.0000	0.0219	NO				REGRADE DRIVEWAY APPROACH		
15-WD	ALICE C. DOLAMORE, TRUSTOR/TRUSTEE OF	11	DOC. #199908011258		016-03D-37-014	5.0033	0.1937	0.3918	0.1937	0.1981	NO		4.6115		GRADING/CONSTRUCTION LIMITS		
15-WD1	THE PAHOUNDIS-DOLAMORE	10,11	DOC. #199908011258		016-03D-37-013	5.0033	0.1968	0.4663	0.1968	0.2695	NO		4.2675		GRADING/CONSTRUCTION LIMITS		
15-WD2	FAMILY TRUST, DATED JULY 2, 1998	9,10,16,17	DOC. #199908011258		016-03D-37-012	5.0033	0.7668	1.1825	0.6624	0.5201	NO		3.7164		GRADING/CONSTRUCTION LIMITS		
			DOC. #199908011258		016-03D-37-015	5.0008	0.1801	0.0000	0.0000	0.0000	NO	4.8207			(NO R/W REQUIRED)		
			DOC. #199908011258		016-03D-37-016	5.0008	0.1808	0.0000	0.0000	0.0000	NO	4.8200			(NO R/W REQUIRED)		
			DOC. #199908011258		016-03D-38-036	5.0008	0.1829	0.0000	0.0000	0.0000	NO	4.8179			(NO R/W REQUIRED)		
			DOC. #199908011257		016-03D-38-010	6.5086	0.2383	0.0000	0.0000	0.0000	NO	6.2703			(NO R/W REQUIRED)		
	TOTALS					36.5209	1.9394	1.8874	1.0529	0.8345		20.7289	13.0181				
16-WD	ROBERT JOHN LUCHT	5,6,7,8,9 16,17	O.R. 914	791	005-07B-01-001	47.6695	2.0149	3.8067	1.5885	2.2182	NO		43.4364		GRADING/CONSTRUCTION LIMITS		
			D.V. 506	573	005-07B-02-001	2.1200	0.1205	0.0000	0.0000	0.0000	NO		1.9995		(NO R/W REQUIRED)		
17	BRIAN LEE ALBER	5	D.V. 487	248	005-07B-07-001	10.5110	0.2797	0.0000	0.0000	0.0000			10.2313		(NO R/W REQUIRED)		
18	GOLDIE M. MUELLER	12	O.R. 599	188	016-03C-35-010	4.7242	0.0861	0.0000	0.0000	0.0000		4.6381			(NO R/W REQUIRED)		
19	ROBERT E. THORSELL & ROBERTA J. THORSELL	12	D.V. 471	485	016-03D-37-005	22.8095	0.0406	0.0000	0.0000	0.0000			22.7689		(NO R/W REQUIRED)		

STATE OF OHIO

O.R. = OFFICIAL RECORD
D.V. = DEED VOLUME
DOC. # = DOCUMENT NUMBER

NOTE: ALL TEMPORARY PARCELS TO BE OF 18 MONTHS DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

REV.	DATE	DESCRIPTION
4	01-06-03	MODIFIED TAKES
3	11-04-02	MODIFIED TAKES
2	9-16-02	PROPERTY OWNERS
1	6-11-02	MODIFIED TAKES

DATE OF COMPLETION

FEDERAL PROJECT NO.

PID NO. 19334

STATE JOB NO. 43229(0)

R/W DESIGNER CTJ

R/W REVIEWER SMM

SUMMARY OF ADDITIONAL RIGHT OF WAY

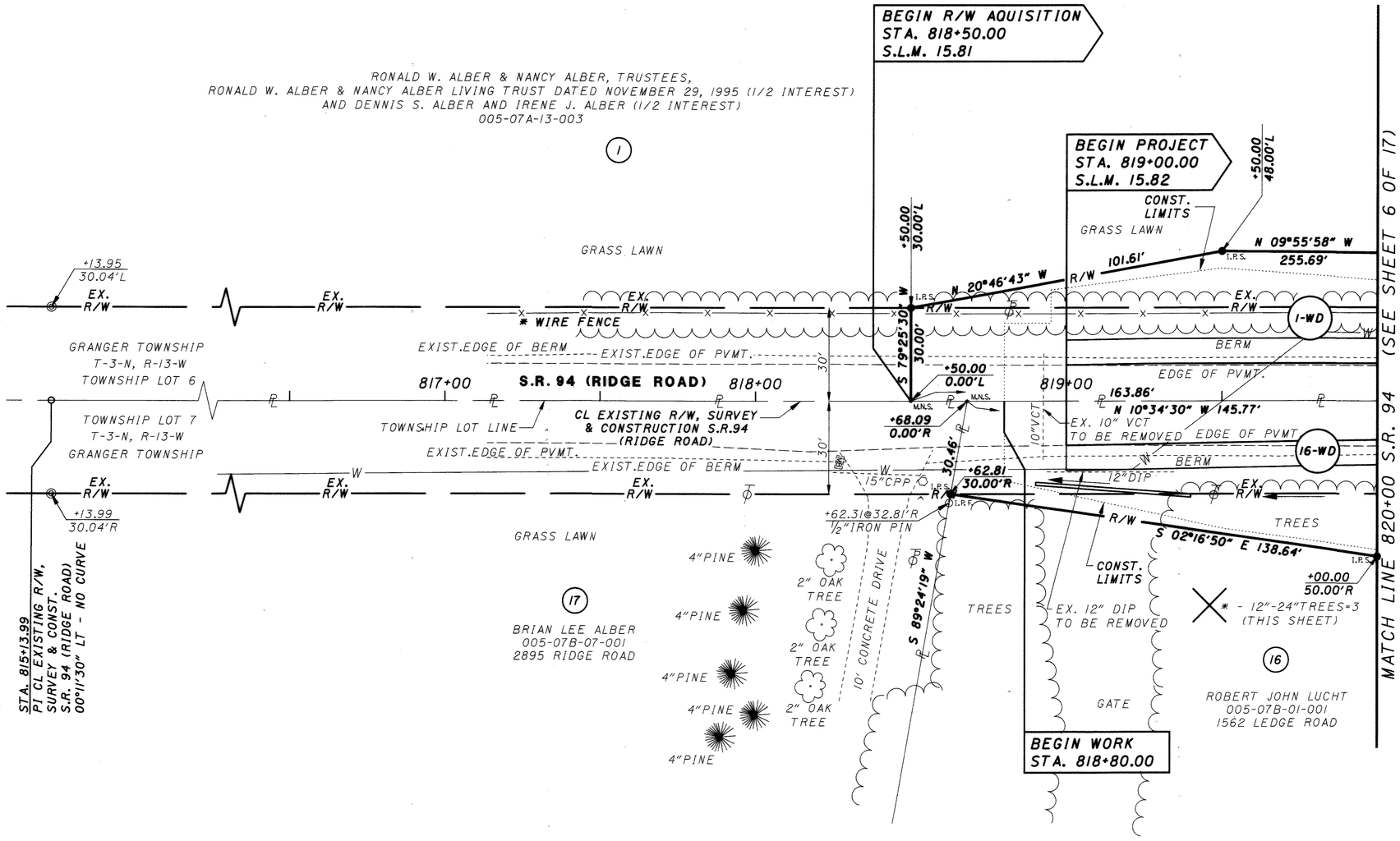
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4 / 17

88 / 101

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TOWNSHIP LOTS 6, 7, 15, 96 & 97,
TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST,
CONNECTICUT WESTERN RESERVE,
HINCKLEY & GRANGER TOWNSHIPS,
MEDINA COUNTY, OHIO



NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

* DENOTES R/W ENCROACHMENT

* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- [M] MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⓘI.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎R.P. IRON PIPE FOUND
- ●I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
2	9-16-02	PROPERTY OWNERS
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 19334

R/W DESIGNER
R/W REVIEWER SMN

RIGHT OF WAY PLAN S.R. 94
STA. 816+00.00 TO STA. 820+00.00

MED-94-15.82

5 / 17

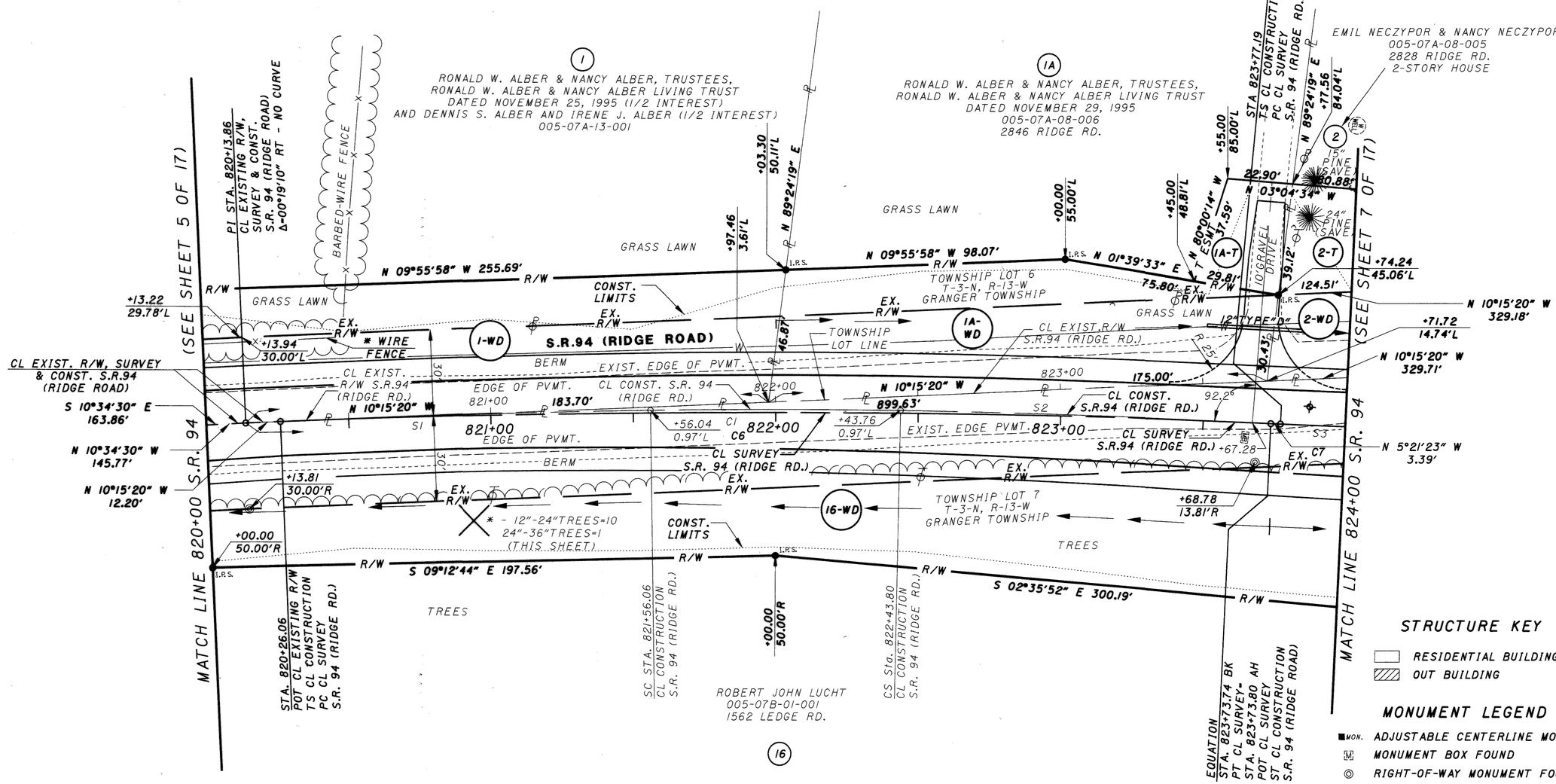
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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

✕✳ - Number Of Trees This Sheet Inside Const. Limits To Be Removed



CURVE TABLE FOR CL SURVEY

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C6	04°53'57"	N 07°48'22" W	173.95	4066.15	347.68	347.58
C7	04°53'57"	N 07°48'22" W	173.95	4066.15	347.68	347.58

SPIRAL TABLE FOR CL CONSTRUCTION

NUMBER	IS	L	X	Y	P	K	LT	ST	DS
S1	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"
S2	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"
S3	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"

CURVE TABLE FOR CL CONSTRUCTION

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C1	01°58'27"	N 07°48'22" W	43.87	2546.48	87.74	87.73

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

* DENOTES R/W ENCROACHMENT

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- [M] MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ∅ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎R.F. IRON PIPE FOUND
- ●I.R.S. MONUMENTS REFERRED TO AS 'IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

REV.	DATE	DESCRIPTION
2	9-16-02	PROPERTY OWNERS
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT

DATE OF COMPLETION

N

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

PID NO. 19334

R/W DESIGNER CTU

R/W REVIEWER SMH

RIGHT OF WAY PLAN S.R. 94 STA. 820+00.00 TO STA. 824+00.00

MED-94-15.82

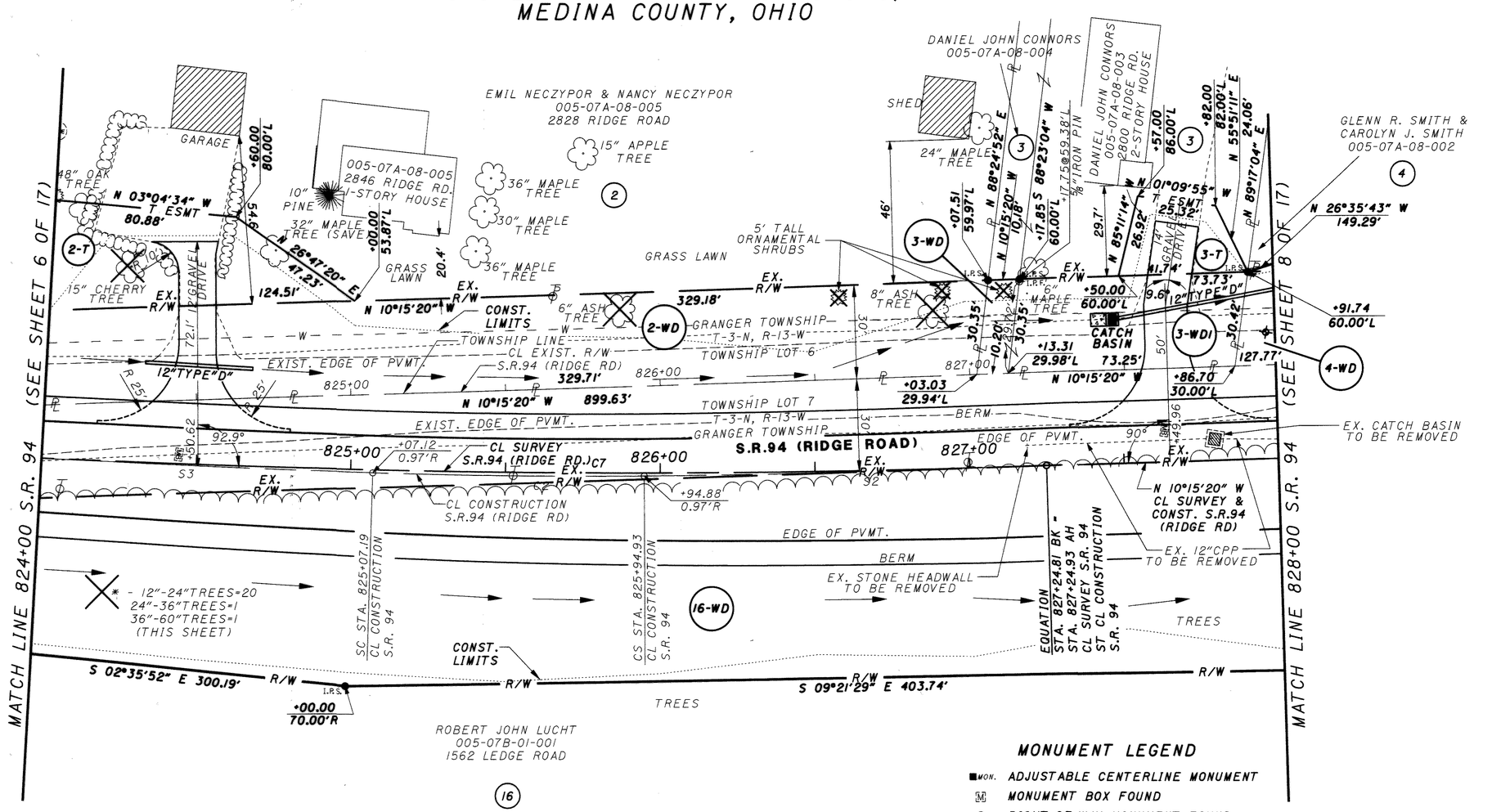
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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



CURVE TABLE FOR CL SURVEY

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C7	04°53'57"	N 07°48'22" W	173.95	4066.15	347.68	347.58

SPIRAL TABLE FOR CL CONSTRUCTION

NUMBER	IS	L	X	Y	P	K	LT	ST	DS
S3	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"
S4	01°27'45"	130.00	129.99	1.11	0.28	65.00	86.67	43.34	01°27'45"

CURVE TABLE FOR CL CONSTRUCTION

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C2	01°58'27"	N 07°48'22" W	43.87	2546.48	87.74	87.73

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ∅ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊕I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎P.F. IRON PIPE FOUND
- ●I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
2	9-16-02	ADDED DISTANCE
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
		DATE OF COMPLETION

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 19334

R/W DESIGNER: CTJ
R/W REVIEWER: SMH

RIGHT OF WAY PLAN S.R. 94 STA. 824+00.00 TO STA. 828+00.00

MED-94-15.82

7 / 17

91 / 101

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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

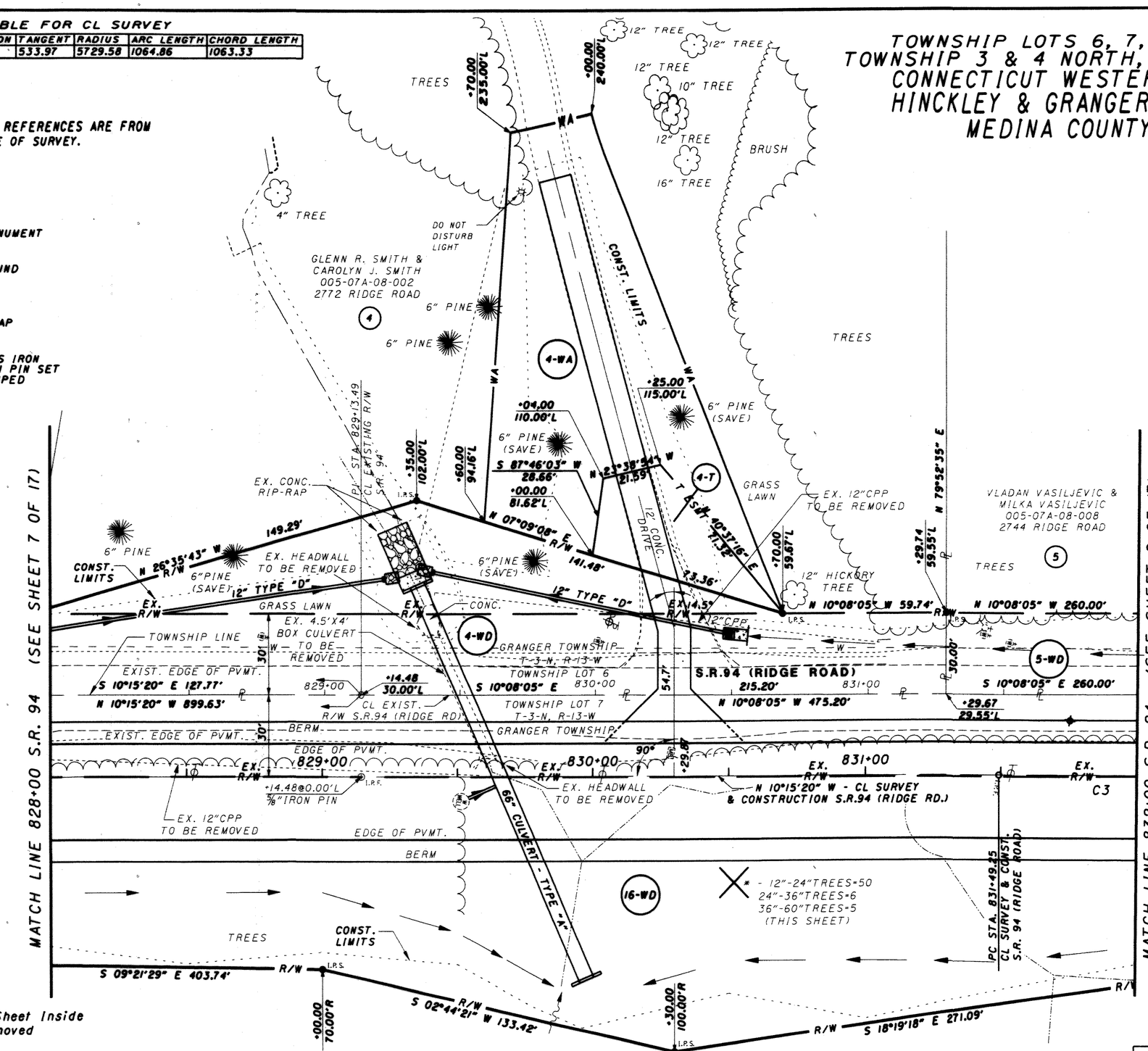
CURVE TABLE FOR CL SURVEY

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C3	10°38'55"	N 04°55'53" W	533.97	5729.58	1064.86	1063.33

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- [M] MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ∅ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎P.F. IRON PIPE FOUND
- ●I.P.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"



* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

REV.	DATE	DESCRIPTION
2	8-04-03	ADDED PARCEL 4-WA
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT

DATE OF COMPLETION

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 19334

R/W DESIGNER: CTJ
R/W REVIEWER:

RIGHT OF WAY PLAN S.R. 94
STA. 828+00.00 TO STA. 832+00.00

MED-94-15.82

8 / 17

92 / 101

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TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ⊘ RAILROAD SPIKE FOUND
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- ●I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

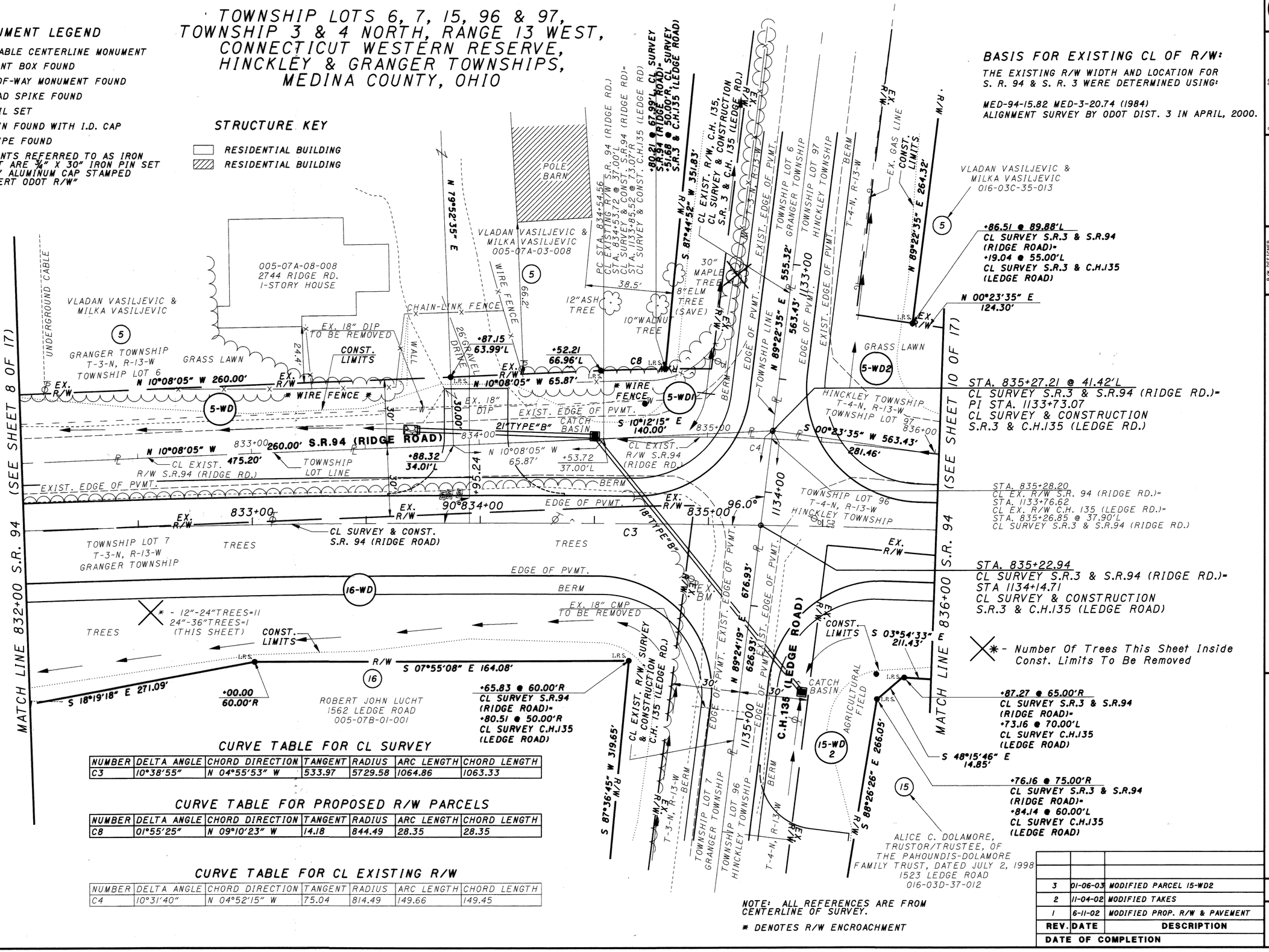
STRUCTURE KEY

- RESIDENTIAL BUILDING
- RESIDENTIAL BUILDING

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 WED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.



* - 12"-24" TREES=11
24"-36" TREES=1
(THIS SHEET)

* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

CURVE TABLE FOR CL SURVEY

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C3	10°38'55"	N 04°55'53" W	533.97	5729.58	1064.86	1063.33

CURVE TABLE FOR PROPOSED R/W PARCELS

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C8	01°55'25"	N 09°10'23" W	14.18	844.49	28.35	28.35

CURVE TABLE FOR CL EXISTING R/W

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C4	10°31'40"	N 04°52'15" W	75.04	814.49	149.66	149.45

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

* DENOTES R/W ENCROACHMENT

REV.	DATE	DESCRIPTION
3	01-06-03	MODIFIED PARCEL 15-WD2
2	11-04-02	MODIFIED TAKES
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 19334

R/W DESIGNER: CTJ
R/W REVIEWER: SWH

RIGHT OF WAY PLAN
S.R. 94
STA. 832+00.00 TO STA. 836+00.00

MED-94-15.82

9 / 17

93 / 101

G:\SV\PROJ\59254 MED 94 ROW\DGNS\59254RW05.dgn

MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

MATCH LINE 1045+00 S.R. 3 (SEE SHEET 15 OF 17)

MATCH LINE 836+00 S.R. 94 (SEE SHEET 9 OF 17)

MATCH LINE 840+00 S.R. 94 (SEE SHEET 11 OF 17)

PT STA. 836+04.22 CL EXIST. R/W S.R. 94

CURVE TABLE FOR PROPOSED R/W PARCELS

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C5	29°52'31"	N 15°19'51" E	153.01	573.52	299.05	295.67
C11	22°53'33"	S 18°49'20" W	116.12	573.52	229.15	227.63
C16	04°46'28"	S 23°22'37" W	22.66	543.52	45.29	45.28

CURVE TABLE FOR CL SURVEY

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C3	10°38'55"	N 04°55'53" W	533.97	5729.58	1064.86	1063.33

CURVE TABLE FOR CL EXISTING R/W

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C4	10°31'40"	N 04°52'15" W	75.04	814.49	149.66	149.45

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

STRUCTURE KEY

- RESIDENTIAL BUILDING
- RESIDENTIAL BUILDING

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT OF WAY MONUMENT FOUND
- ⊀ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎R.F. IRON PIPE FOUND
- ●I.R.S. MONUMENT REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

REV.	DATE	DESCRIPTION
4	01-06-03	MODIFIED PARCEL 15-WD2
3	11-04-02	MODIFIED TAKES
2	9-16-02	ADDED DISTANCES & OWNERS
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 19334

R/W DESIGNER CTJ
R/W REVIEWER SMH

RIGHT OF WAY PLAN S.R. 94
STA. 836+00.00 TO STA. 840+00.00

MED-94-15.82

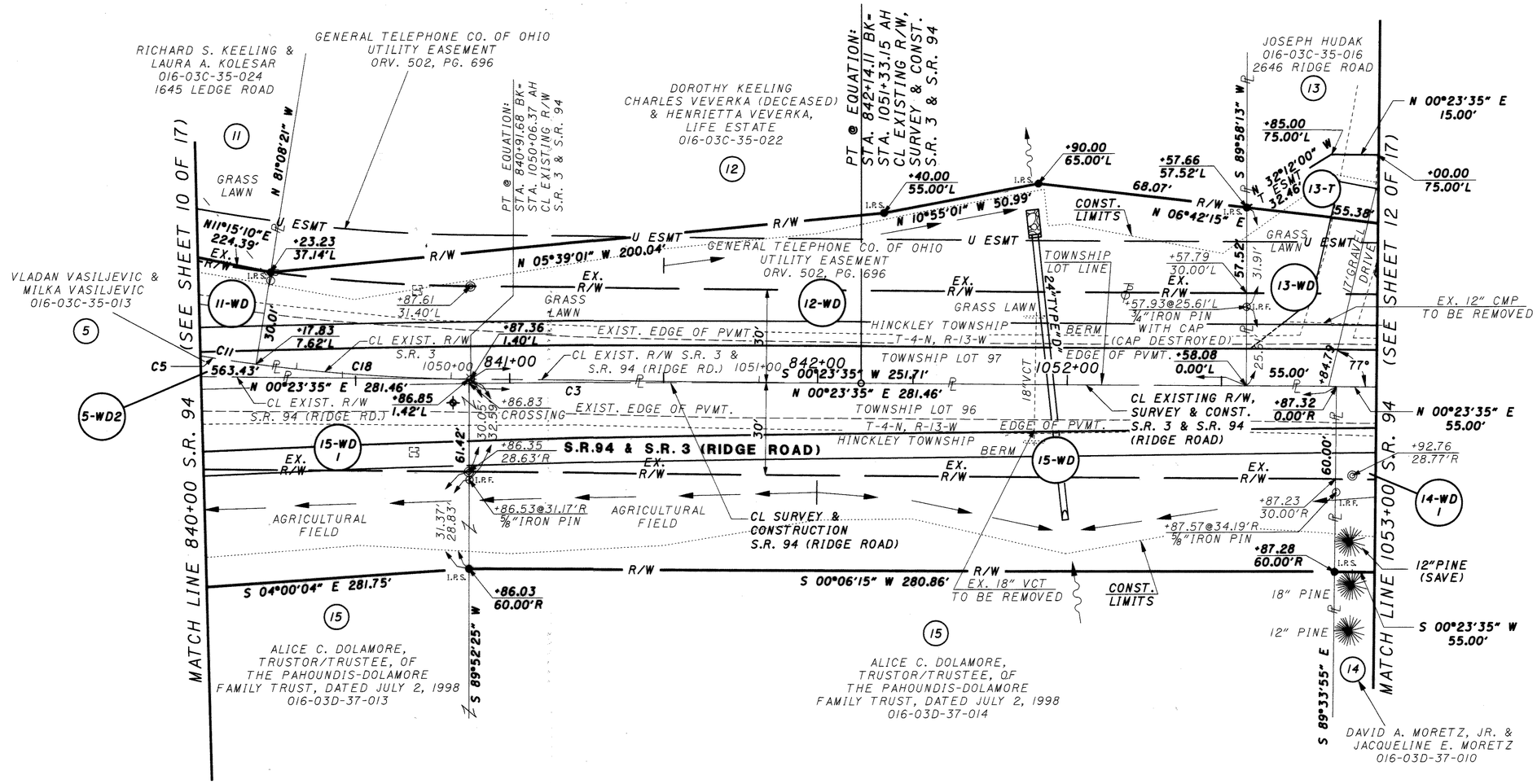
10 / 17

94 / 101

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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



CURVE TABLE FOR CL SURVEY

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C3	10°38'55"	N 04°55'53" W	533.97	5729.58	1064.86	1063.33

CURVE TABLE FOR PROPOSED R/W PARCELS

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C5	29°52'31"	N 15°19'51" E	153.01	573.52	299.05	295.67
C11	22°53'33"	S 18°49'20" W	116.12	573.52	229.15	227.63
C18	06°58'59"	S 03°53'04" W	34.99	573.52	69.90	69.85

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT OF WAY MONUMENT FOUND
- ∅ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎R.F. IRON PIPE FOUND
- ●I.R.S. MONUMENT REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

STRUCTURE KEY

- RESIDENTIAL BUILDING
- RESIDENTIAL BUILDING

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
2	11-04-02	MODIFIED TAKES
1	9-16-02	ADDED DISTANCES & OWNERS
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 19334

R/W DESIGNER CTU
R/W REVIEWER SMW

RIGHT OF WAY PLAN S.R. 94 STA. 840+00.00 TO STA. 1053+00.00

MED-94-15.82

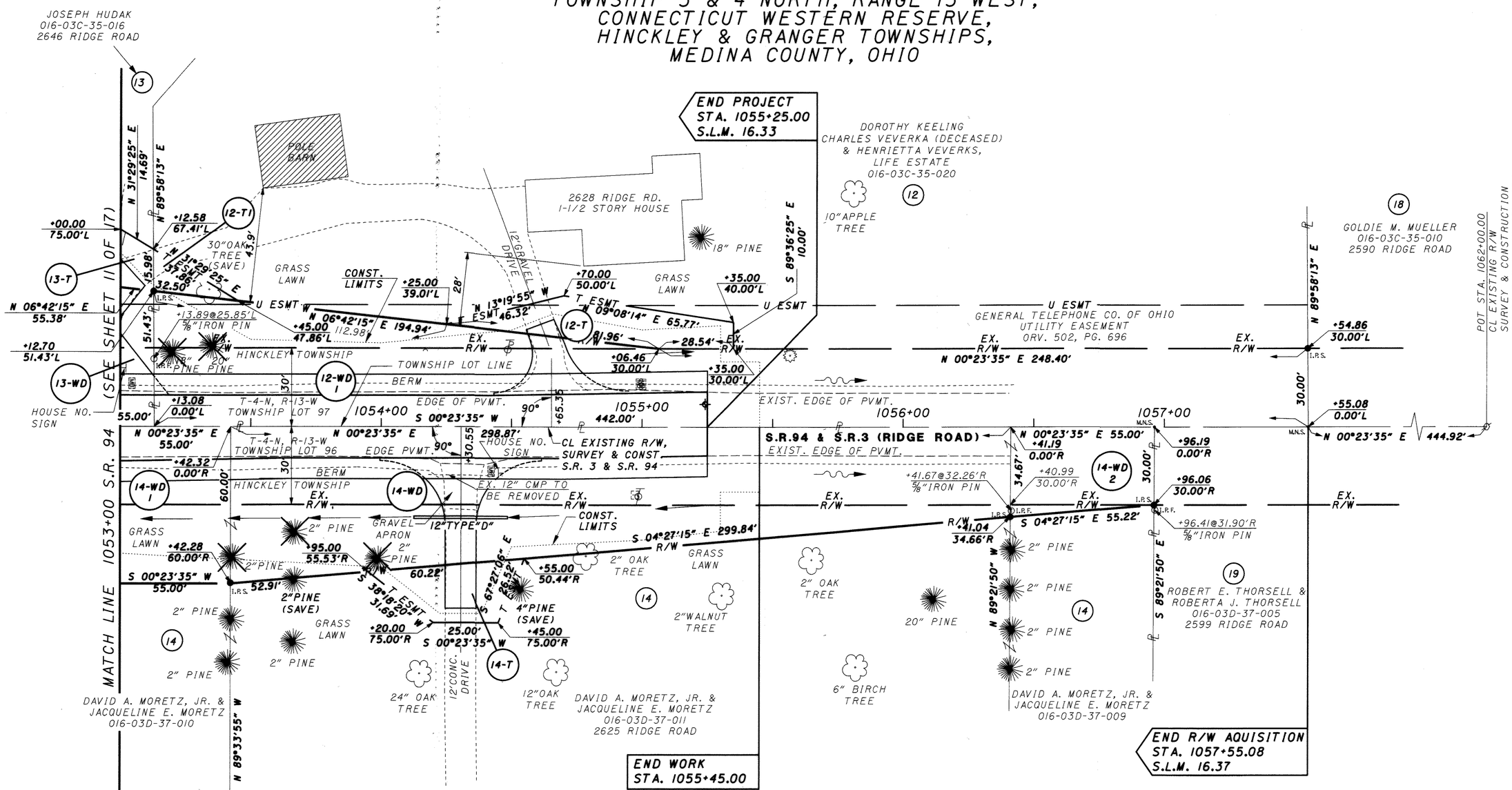
11 / 17

95 / 101

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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT OF WAY MONUMENT FOUND
- ⊘ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎P.F. IRON PIPE FOUND
- ●I.R.S. MONUMENT REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY

REV.	DATE	DESCRIPTION
2	9-16-02	ADDED DISTANCE & OWNER
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 19334

R/W DESIGNER CTU
R/W REVIEWER SRW

RIGHT OF WAY PLAN S.R. 94
STA. 1053+00.00 TO STA. 1057+00.00

MED-94-15.82

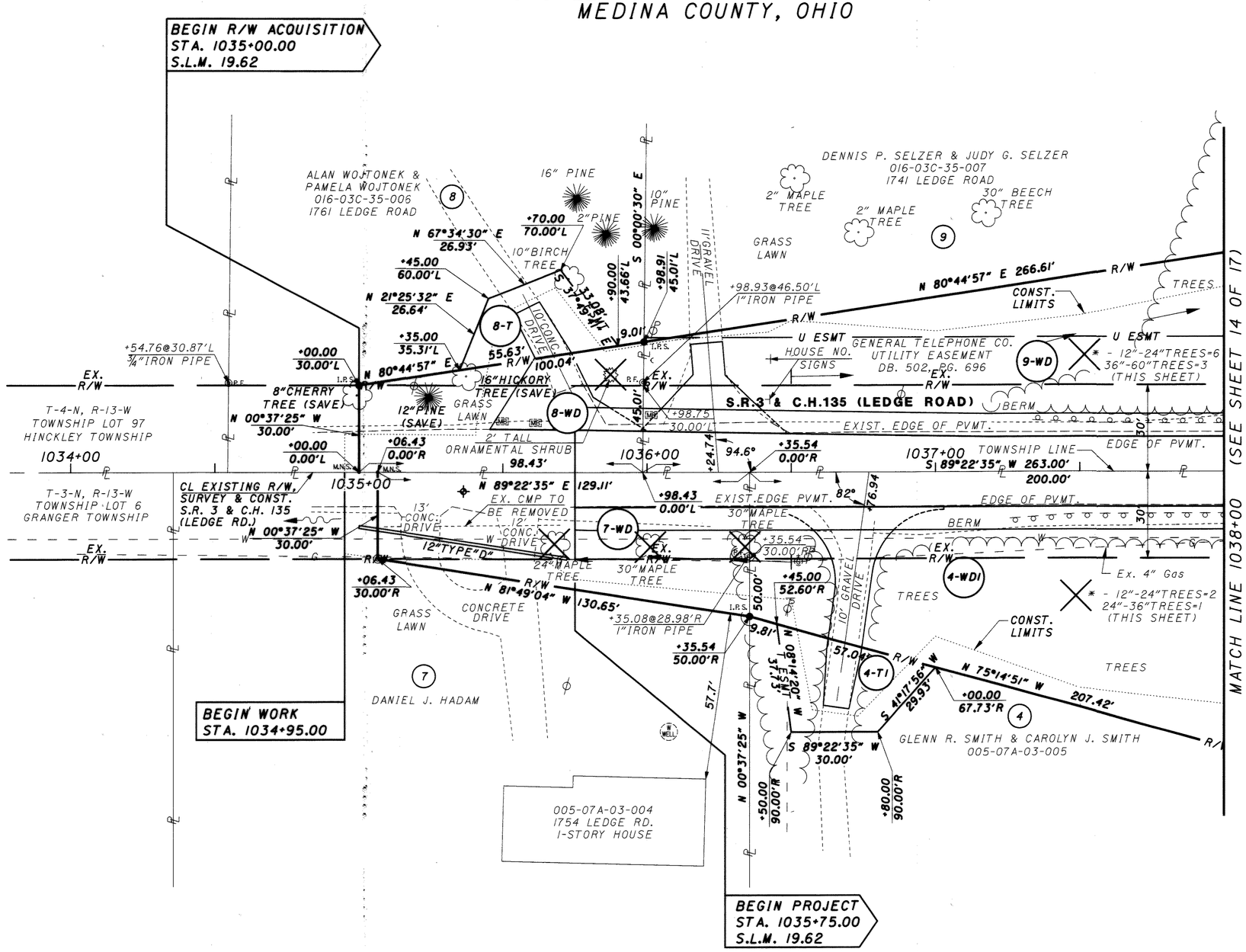
12/17

96/101

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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ∅ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⓘ I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎ R.F. IRON PIPE FOUND
- ● I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
2	01-6-03	UPDATED OWNER PARCEL 8
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 19334

R/W DESIGNER CTJ
R/W REVIEWER SWH

PLAN S.R. 3
STA.1034+00.00 TO STA.1038+00.00
RIGHT OF WAY

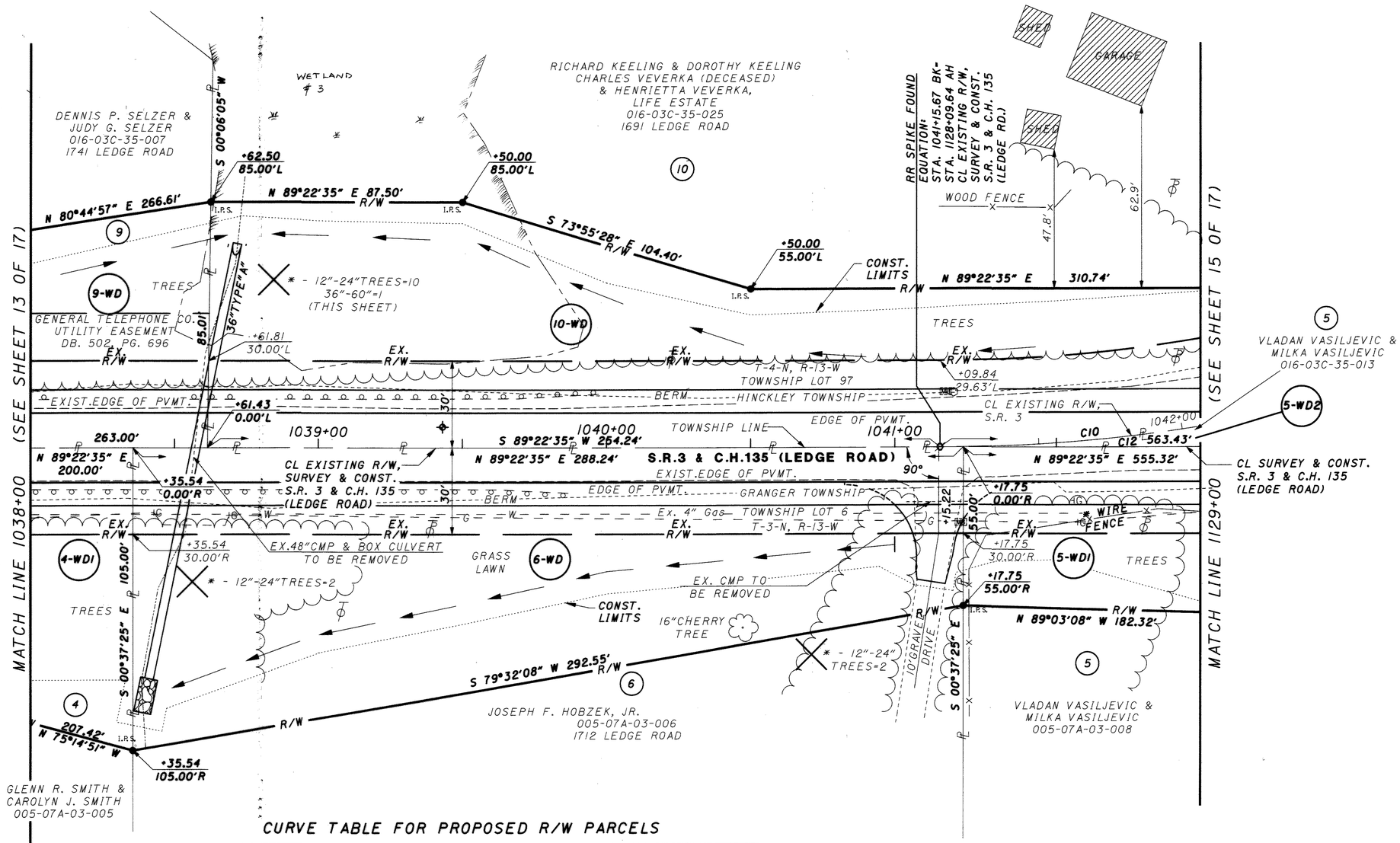
MED-94-15.82

13 / 17

97 / 101

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TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



CURVE TABLE FOR PROPOSED R/W PARCELS

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C10	25°17'51"	S 76°43'39" W	128.71	573.52	253.22	251.17
C12	25°17'51"	N 76°43'39" E	128.71	573.52	253.22	251.17

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ⌀ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- Ⓘ I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎ R.F. IRON PIPE FOUND
- ● I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

* DENOTES R/W ENCROACHMENT

X * - Number Of Trees This Sheet Inside Const. Limits To Be Removed

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
3	11-04-02	MODIFIED TAKES
2	9-16-02	PROPERTY OWNER
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 19334

R/W DESIGNER CTJ
R/W REVIEWER SBN

RIGHT OF WAY PLAN S.R.3 STA.1038+00.00 TO STA.1129+00.00

MED-94-15.82

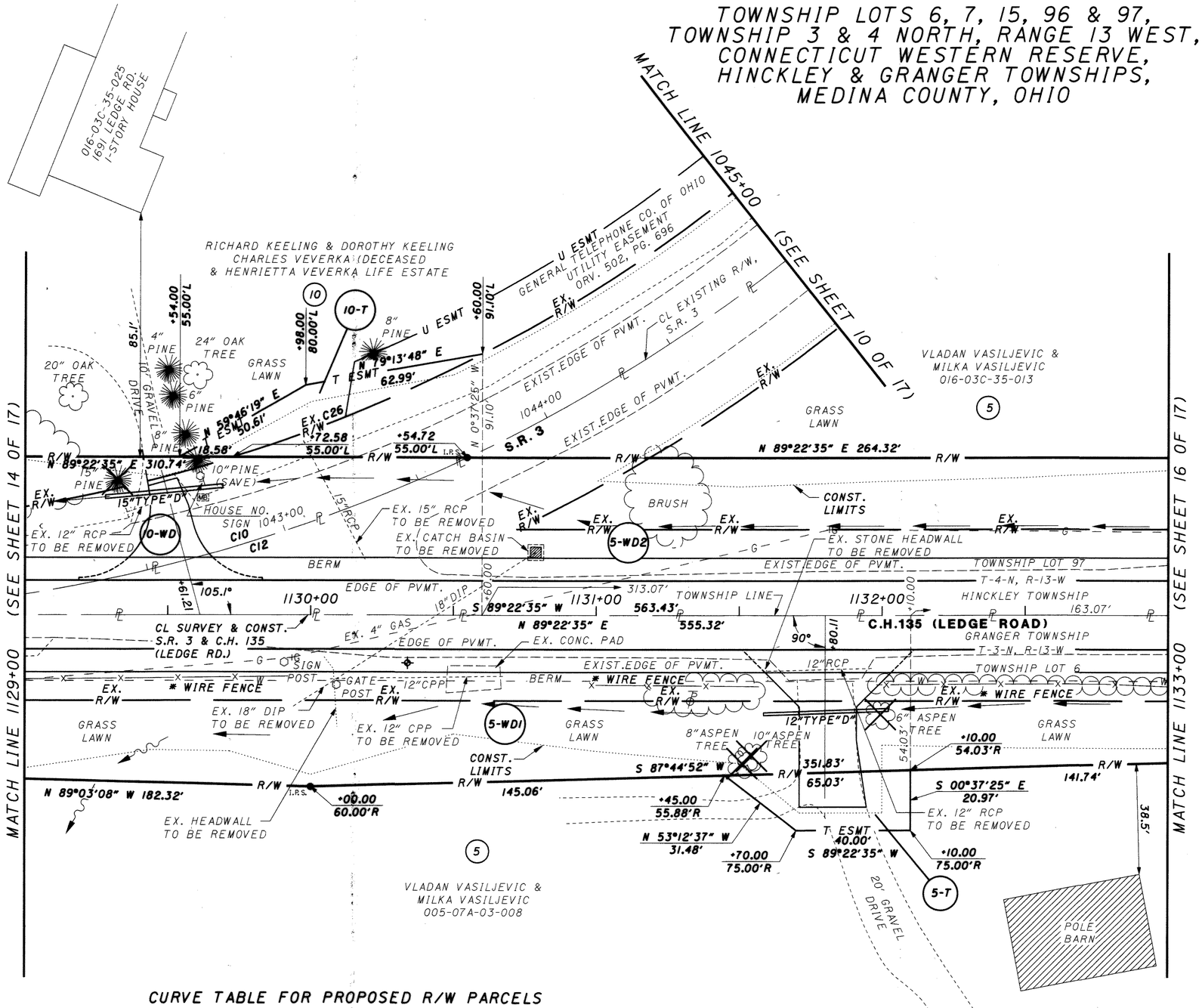
14 / 17

98 / 101

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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



CURVE TABLE FOR PROPOSED R/W PARCELS

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C10	25°17'51"	S 76°43'39" W	128.71	573.52	253.22	251.17
C12	25°17'51"	N 76°43'39" E	128.71	573.52	253.22	251.17
C26	09°58'57"	S 66°56'23" W	47.47	543.52	94.70	94.58

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY

* DENOTES R/W ENCROACHMENT

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- [M] MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ⌀ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⓘI.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎P.F. IRON PIPE FOUND
- ●I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

REV.	DATE	DESCRIPTION
3	11-04-02	MODIFIED TAKES
2	9-16-02	PROPERTY OWNER
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 19334

R/W DESIGNER: CTJ
R/W REVIEWER: SMH

RIGHT OF WAY PLAN S.R.3
STA.1129+00.00 TO STA.1133+00.00

MED-94-15.82

15 / 17

99 / 101

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TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO

CURVE TABLE FOR CL SURVEY

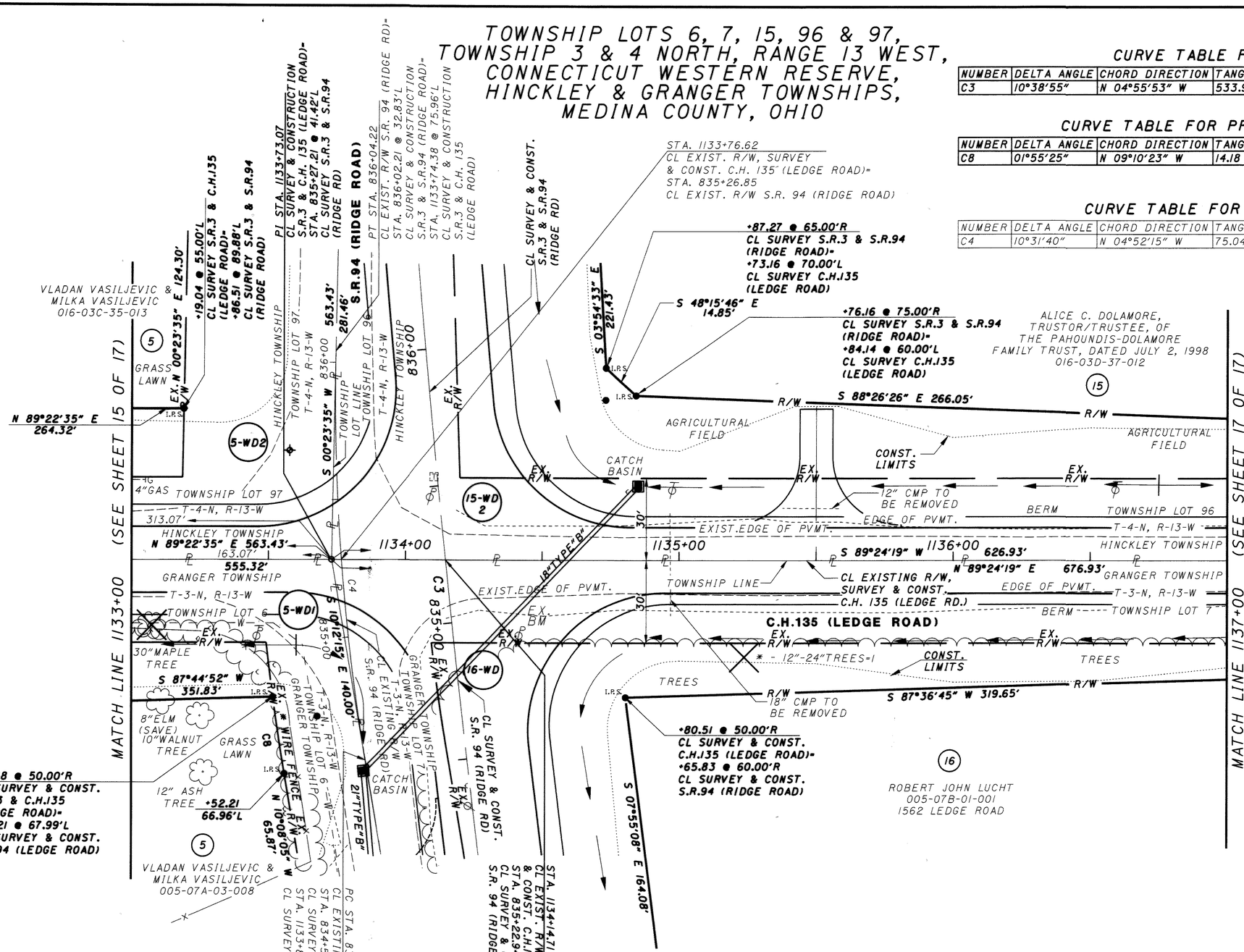
NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C3	10°38'55"	N 04°55'53" W	533.97	5729.58	1064.86	1063.33

CURVE TABLE FOR PROPOSED R/W PARCELS

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C8	01°55'25"	N 09°10'23" W	14.18	844.49	28.35	28.35

CURVE TABLE FOR CL EXISTING R/W

NUMBER	DELTA ANGLE	CHORD DIRECTION	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
C4	10°31'40"	N 04°52'15" W	75.04	814.49	149.66	149.45



MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- ⊄ RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⊙I.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎R.F. IRON PIPE FOUND
- ●I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY.

* DENOTES R/W ENCROACHMENT

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
3	01-06-03	MODIFIED PARCEL 15-WD2
2	11-04-02	MODIFIED TAKES
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

N

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 19334

R/W DESIGNER CTJ
R/W REVIEWER SWN

RIGHT OF WAY PLAN S.R. 3 STA.1133+00.00 TO STA.1137+00.00

MED-94-15.82

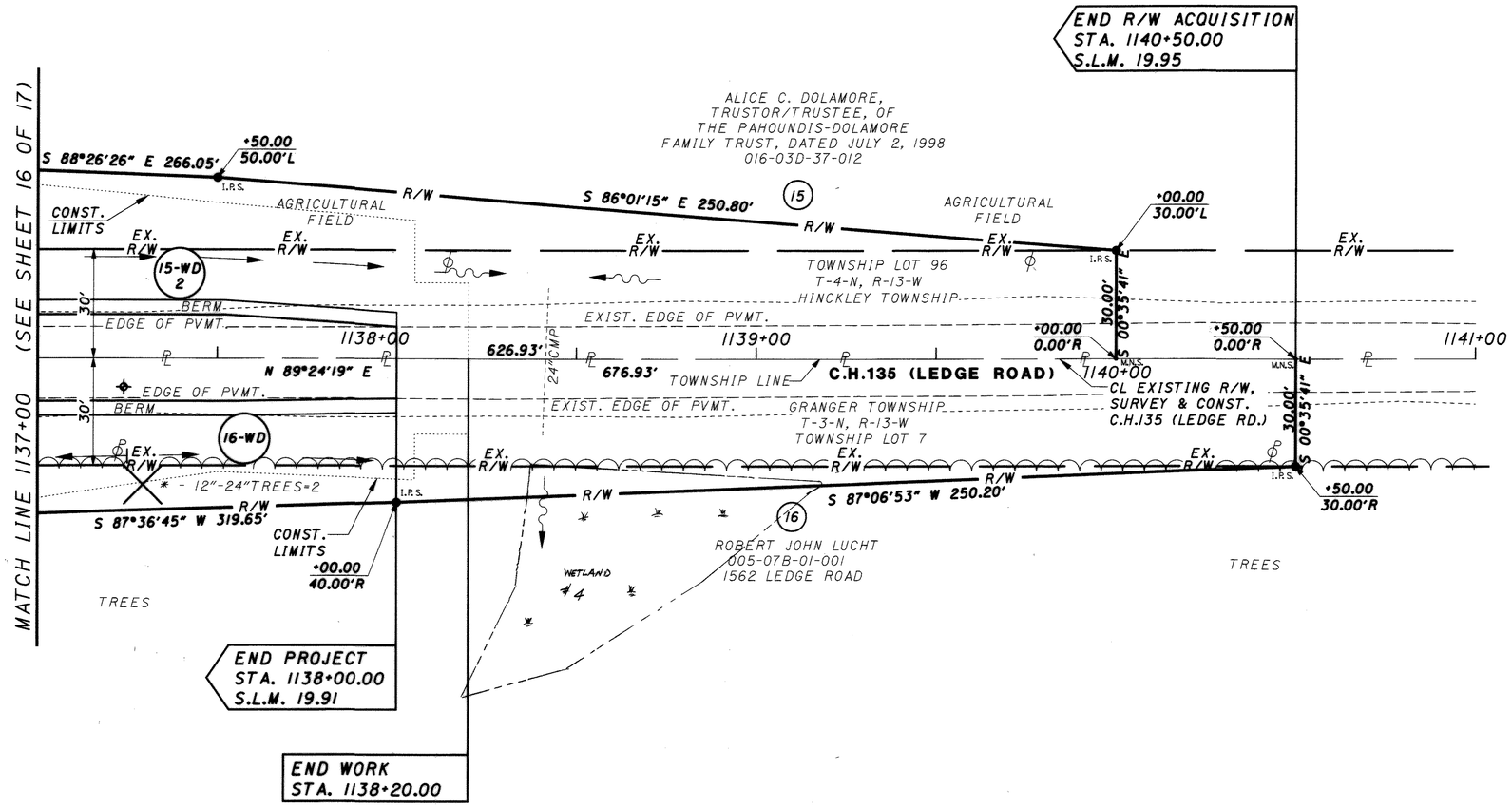
16 / 17

100 / 101

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MED-94-15.82

TOWNSHIP LOTS 6, 7, 15, 96 & 97, TOWNSHIP 3 & 4 NORTH, RANGE 13 WEST, CONNECTICUT WESTERN RESERVE, HINCKLEY & GRANGER TOWNSHIPS, MEDINA COUNTY, OHIO



MONUMENT LEGEND

- ■MON. ADJUSTABLE CENTERLINE MONUMENT
- Ⓜ MONUMENT BOX FOUND
- ◎ RIGHT-OF-WAY MONUMENT FOUND
- RAILROAD SPIKE FOUND
- •M.N.S. MAG NAIL SET
- ⓘI.R.F. IRON PIN FOUND WITH I.D. CAP
- ◎P.F. IRON PIPE FOUND
- ●I.R.S. MONUMENTS REFERRED TO AS IRON PIN SET ARE ¾" X 30" IRON PIN SET WITH 2" ALUMINUM CAP STAMPED "WOOLPERT ODOT R/W"

NOTE: ALL REFERENCES ARE FROM CENTERLINE OF SURVEY

* - Number Of Trees This Sheet Inside Const. Limits To Be Removed

STRUCTURE KEY

- RESIDENTIAL BUILDING
- OUT BUILDING

BASIS FOR EXISTING CL OF R/W:

THE EXISTING R/W WIDTH AND LOCATION FOR S. R. 94 & S. R. 3 WERE DETERMINED USING:

MED-94-15.82 MED-3-20.74 (1984)
ALIGNMENT SURVEY BY ODOT DIST. 3 IN APRIL, 2000.

REV.	DATE	DESCRIPTION
2	01-06-03	MODIFIED PARCEL 15-WD2
1	6-11-02	MODIFIED PROP. R/W & PAVEMENT
DATE OF COMPLETION		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 19334

R/W DESIGNER CTJ
R/W REVIEWER SMH

RIGHT OF WAY PLAN
STA.1137+00.00 TO STA.1141+00.00
S.R. 3

MED-94-15.82

17 / 17

101 / 101

G:\SV\PROJ\59254 MED 94 ROW\DGNS\59254RW5.dgn

MED-94-15.82

GENERAL INFORMATION

INTRODUCTION

THIS REPORT CONSISTS OF THE SOIL EXPLORATION OF THE TO THE INTERSECTION OF S.R. 94, S.R. 3 AND LEDGE ROAD IN MEDINA COUNTY, OHIO. THE PROJECT LIMITS ALONG S.R. 3 AND LEDGE ROAD START APPROXIMATELY 1100 FEET WEST OF S.R. 94 AND ENDS APPROXIMATELY 450 FEET EAST OF S.R. 94. THE PROJECT LIMITS ALONG S.R. 94 START APPROXIMATELY 1600 FEET SOUTH OF LEDGE ROAD AND END APPROXIMATELY 1200 FEET NORTH OF LEDGE ROAD.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

THE PROJECT SITE LIES ON THE GLACIATED, MODERATELY ROLLING ALLEGHENY PLATEAU. THE PROJECT AREA WAS PASSED OVER BY THE WISCONSIN ICE SHEET LEAVING A THIN, BUT VARIABLE COATING OF DRIFT RANGING IN THICKNESS FROM 40 TO 100 FEET. THE TOP OF BEDROCK IN THE VICINITY OF THE PROJECT SITE IS ANTICIPATED TO BE PRESENT AT APPROXIMATE ELEVATIONS RANGING FROM 1050 TO 1150 FEET. AT THESE ELEVATIONS BEDROCK IS EXPECTED TO CONSIST OF SHALES AND/OR SHALY SANDSTONE OF THE LOGAN FORMATION.

EXPLORATION

A TOTAL OF 11 ROADWAY TEST BORINGS WERE ADVANCED BY A TRUCK-MOUNTED ROTARY DRILL RIG USING 3.25 INCH I.D. HOLLOW-STEM AUGERS DURING DECEMBER 2000. SIX (6) TEST BORINGS, IDENTIFIED AS R-01 THROUGH R-06 WERE ADVANCED ALONG S.R. 94 WHILE FIVE (5) TEST BORINGS IDENTIFIED AS R-07 THROUGH R-11 WERE ADVANCED ALONG S.R. 3 AND LEDGE ROAD.

INVESTIGATIONAL FINDINGS

THE FILL MATERIAL WERE ENCOUNTERED CONSISTING OF SANDY SILT (A-4A), SILT AND CLAY (A-6A) AND GRAVEL AND ROCK FRAGMENTS WITH SAND (A-1-B) IN TEST BORINGS R-03, R-08, AND R-09 BELOW THE ROADBASE, SHOULDER MATERIALS OR CONCRETE TO APPROXIMATE DEPTHS RANGING FROM 5.4 TO 6.0 FEET. THIS FILL LAYER CONTAINED TRACES OF COAL FRAGMENTS IN TEST BORING R-09. THE NATURAL SOILS ENCOUNTERED BELOW THE ROADBASE MATERIAL, CONCRETE, AND FILL MATERIAL WAS PREDOMINANTLY COHESIVE IN NATURE IN THE MAJORITY OF TEST BORINGS. COHESIVE SOILS CONSISTED OF SILTY CLAY (A-6B), SILT AND CLAY (A-6A) AND SANDY SILT (A-4A). NON-COHESIVE SOILS CONSISTED OF COARSE AND FINE SAND (A-3A) AND GRAVEL AND ROCK FRAGMENT WITH SAND AND SILT (A-2-4). BEDROCK WAS NOT ENCOUNTERED IN ANY OF THE ROADWAY TEST BORINGS DURING OUR SUBSURFACE EXPLORATION.

THE RELATIVE CONSISTENCY OF THE COHESIVE SOILS WAS FOUND TO RANGE FROM "MEDIUM STIFF" TO "HARD," BUT WAS PREDOMINATELY "VERY STIFF." THE RELATIVE DENSITY OF THE NON-COHESIVE SOILS WAS FOUND TO RANGE FROM "LOOSE" TO "MEDIUM DENSE", BUT WAS PREDOMINANTLY "MEDIUM DENSE." THE MOISTURE CONTENTS OF THE TESTED COHESIVE SOIL SAMPLES WERE FOUND TO RANGE FROM 12 TO 23 PERCENT. THE MOISTURE CONTENTS OF THE TESTED NON-COHESIVE SOILS RANGED FROM 7 TO 15 PERCENT. ONE (1) OF THE SIX (6) COHESIVE SOIL SAMPLES TESTED FOR ATTERBERG LIMITS CONTAINED A NATURAL MOISTURE CONTENT GREATER THAN ITS PLASTIC LIMIT.

FREE GROUNDWATER ENCOUNTERED AT 8.0 FEET DURING AND AT 5.0 FEET UPON COMPLETION OF DRILLING OPERATIONS IN TEST BORING R-02.

FOR SPECIFIC CONDITIONS AT VARIOUS DEPTHS, PLEASE REFER TO THE INDIVIDUAL TEST BORING LOGS LOCATED IN THE APPENDICIES OF THE ROADWAY REPORT.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS- 6 SAMPLES TESTED

DESCRIPTION	ODOT CLASS	% AGG.	% C.SAND	% F. SAND	% SILT	CLAY	LIQUID LIMIT	PLACTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL	A-1-a( )	--	--	--	--	--	--	--	--	--
GRAVEL WITH SAND	A-1-b( )	--	--	--	--	--	--	--	--	--
FINE SAND	A-3-( )	--	--	--	--	--	--	--	--	--
COARSE AND FINE SAND	A-3a( )	--	--	--	--	--	--	--	--	--
GRAVEL WITH SAND AND SILT	A-2-4( )	--	--	--	--	--	--	--	--	--
GRAVEL WITH SAND, SILT AND CLAY	A-2-6( )	--	--	--	--	--	--	--	--	--
SANDY SILT	A-4a( )	--	--	--	--	--	--	--	--	--
SILT	A-4b( )	--	--	--	--	--	--	--	--	--
SILT AND CLAY	A-6a(9)	8	9	10	--	72*	34	14	17	2
SILTY CLAY	A-6b(11)	5	5	11	--	78*	37	17	18	4
ELASTIC CLAY	A-7-5( )	--	--	--	--	--	--	--	--	--
CLAY	A-7-6( )	--	--	--	--	--	--	--	--	--
RANDOM FILL	VISUAL CLASSIFICATION									
WEATHERED SHALE	VISUAL CLASSIFICATION									
MUDSTONE	VISUAL CLASSIFICATION									
SHALE	VISUAL CLASSIFICATION									
SANDSTONE	VISUAL CLASSIFICATION									
LIMESTONE	VISUAL CLASSIFICATION									
VARIOUS OTHER MATERIAL	VISUAL CLASSIFICATION									

SOD AND/OR TOP SOIL - X - APPROXIMATE DEPTH

BERM MATERIAL

● WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT

⊖ INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT

W INDICATES FREE WATER ELEVATION

INDICATES STATIC WATER ELEVATION

HORIZONTAL BAR ON BORING LOG INDICATES THE DEPTH THE SAMPLE WAS TAKEN.

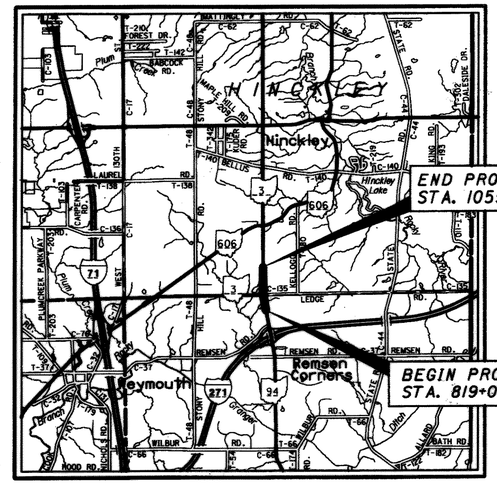
X-Y-Z OR (X / Y / Z) FIGURES BESIDE THE BORING LOG IN PROFILE INDICATE THE NUMBER OF BLOWS FOR STANDARD PENETRATION TEST.

X = NO. OF BLOWS FOR FIRST 6 INCHES
Y = NO. OF BLOWS FOR SECOND 6 INCHES
Z = NO. OF BLOWS FOR THIRD 6 INCHES

⊕ AUGER BORING LOCATION-PLAN VIEW.

⊕ PRESS AND/OR DRIVE SAMPLE AND/OR CORE BORING LOCATION-PLAN VIEW.

NOTE: FIGURES BESIDE BORINGS INDICATE WAER CONTENT IN PERCENT, e.g. 15
* DENOTES SILT AND CLAY COMBINED



LOCATION MAP

LATITUDE: N41°12'07" LONGITUDE: W81°44'43"

SCALE IN MILES

0 1 2 3 4

SUMMARY OF SOIL TEST DATA

NOTE: NP SHOWN IN LIQUID LIMIT AND PLASTICITY INDEX COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC
** DENOTES SAMPLE TAKEN AT OR NEAR GRADE.

SR-94

Station & Offset	Depth From	Depth To	Description	% W.C.	ODOT Class
823+87.23	1.3	3.3	Brown SILTY CLAY, little sand, trace rock fragments	22	VISUAL
9.61' Rt.	3.3	6.0	8 6 11 76* 36 16	16	A-6b
(R-01)	6.0	8.5	Brown SILTY CLAY, little sand, trace rock fragments	13	VISUAL
	8.5	13.5	Brown SILT AND CLAY, little sand, trace rock fragments	15	VISUAL
	13.5	15.0	Brown and gray SILT AND CLAY, little sand, trace frock frags	13	
827+96.01	1.5	3.5	Brown SILTY CLAY, litt sand, trace rock fragments	18	VISUAL
10.48' Lt.	3.5	6.0	Brown SILT AND CLAY, little sand, trace rock fragments	14	VISUAL
(R-02)	6.0	8.5	Brown SILT AND CLAY, little sand, trace rock frags with sand seam	13	VISUAL
	8.5	10.0	Brown COARSE AND FINE SAND, some silt, little Clay, trace rock frags.	14	VISUAL
831+74.41	1.5	3.5	Brown SANDY SILT, some clay, trace rock fragments (fill)	13	VISUAL
9.64' Rt.	3.5	5.5	Brown GRAVEL AND ROCK FRAGMENTS WITH SAND (fill)	7	VISUAL
(R-03)	5.5	8.5	Brown GRAVEL AND ROCK FRAGMENTS WITH SAND AND SILT	15	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little sand, trace rock fragments	12	VISUAL
835+68.50	1.0	3.0	1 3 8 88* 33 13	16	A-6a
16.86' Lt.	3.0	6.0	Brown SILT AND CLAY, little sand, trace rock fragments	12	VISUAL
(R-04)	6.0	8.5	Brown SILT AND CLAY, little sand, trace rock fragments	12	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little sand, trace rock fragments	12	VISUAL
840+86.01	1.0	2.5	Concrete Slab		
7.62' Rt.	2.5	6.0	Brown SILTY CLAY, little sand, trace rock fragments	19	VISUAL
(R-05)	6.0	8.5	Brown SILT AND CLAY, little sand, trace rock fragments	14	VISUAL
	8.5	10.0	Brown SILT AND CLAY, little sand, trace rock fragments	14	VISUAL
1055+24.16	1.3	3.3	2 5 10 83* 40 18	18	A-6b**
8.81' Lt.	3.3	6.0	Brown SILTY CLAY, little sand, trace rock fragments	13	VISUAL
(R-06)	6.0	8.5	Brown SILTY CLAY, little sand, trace rock fragments	14	VISUAL
	8.5	10.0	Brown SILTY CLAY, little sand, trace rock fragments	15	VISUAL

SR-3 AND LEDGE ROAD

Station & Offset	Depth From	Depth To	Description	% W.C.	ODOT Class
1035+36.32	1.2	3.2	1 3 11 85* 34 16	20	A-6b**
6.54' Rt.	3.2	6.0	Brown SILTY CLAY, little sand, trace rock fragments	16	VISUAL
(R-07)	6.0	8.5	Brown SILTY CLAY, little sand, trace rock fragments	18	VISUAL
	8.5	13.5	Brown SILTY CLAY, little sand, trace rock fragments	14	VISUAL
	13.5	15.0	Gray SILTY CLAY, little sand, trace rock fragments	13	VISUAL
1039+43.10	1.4	3.9	15 14 16 55* 34 14	17	A-6a
7.20' Lt.	3.9	6.0	Brown GRAVEL AND ROCK FRAGS WITH SAND (fill)	7	VISUAL
(R-08)	6.0	8.5	Brown SILTY CLAY, little sand, trace rock frags with organic layer	23	VISUAL
	8.5	10.0	Brown SILTY CLAY, little sand, trace rock fragments	19	VISUAL
1130+33.99	1.0	3.00	Dark brown SILT AND CLAY, little sand, trace coal and rock frags (fill)	19	VISUAL
16.74' Rt.	3.0	6.00	Dark brown SILT AND CLAY, little sand, trace coal and rock frags (fill)	18	VISUAL
(R-09)	6.0	8.50	Brown SILTY CLAY, little sand, trace rock fragments	23	VISUAL
	8.5	10.00	Brown SILTY CLAY, little sand, trace rock fragments	21	VISUAL
1137+23.98	1.4	3.40	10 7 13 69* 36 17	16	A-6b**
8.06' Rt.	3.4	6.00	Brown SILTY CLAY, little sand trace rock fragments	14	VISUAL
(R-10)	6.0	8.50	Brown SILTY CLAY, little sand trace rock fragments	14	VISUAL
	8.5	10.00	Brown SILTY CLAY, little sand trace rock fragments	13	VISUAL
1141+18.91	1.7	3.20	Brown SILT AND CLAY, little sand, trace rock fragments	12	VISUAL
4.62' Lt.	3.2	6.00	Brown SILT AND CLAY, little sand, trace rock fragments	15	VISUAL
(R-11)	6.0	8.50	Brown SILT AND CLAY, little sand, trace rock fragments	14	VISUAL
	8.5	10.00	Brown SILT AND CLAY, little sand, trace rock fragments	14	VISUAL

*SILT AND CLAY COMBINED

NOTES

ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE STRUCTURE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATION MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF MATERIALS MANAGEMENT AT 1600 WEST BROAD STREET, THE OFFICE OF ROADWAY ENGINEERING OR THE OFFICE OF STRUCTURAL ENGINEERING AT 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

PROJECT INDEX

STATIONS FROM	STATIONS TO	PLAN AND PROFILE SHEET	CUT MAXIMUM	FILL MAXIMUM
SR 94 819+00	1055+25	2 AND 3	7'-0"	13'-0"
SR 3 1036+00	1138+00	4 AND 5	5'-2"	10'-6"

RECON - S.S. 10/2000
Drilling - Auger - N.A.D. 10/12/00
Drafting - B.M&S.V. 07/06/01

PRIME ENGINEERING & ARCHITECTURE, INC. (330) 666-5432 (614) 457-2100

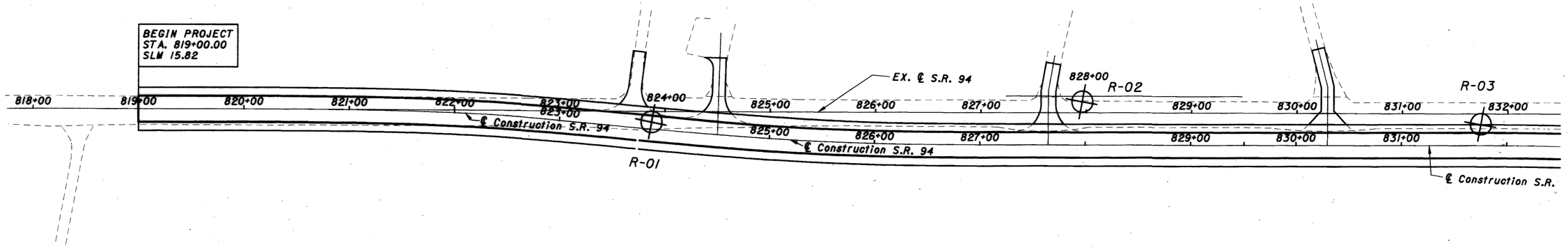
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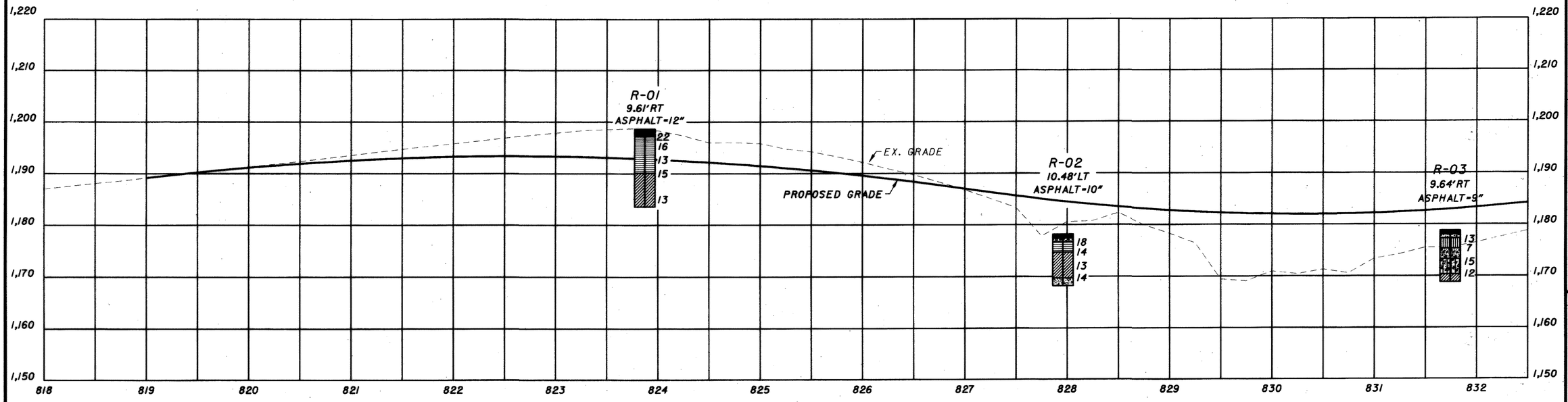
SOIL PROFILE

MEDINA COUNTY
MED-94-15.82

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HORIZONTAL SCALE IN FEET
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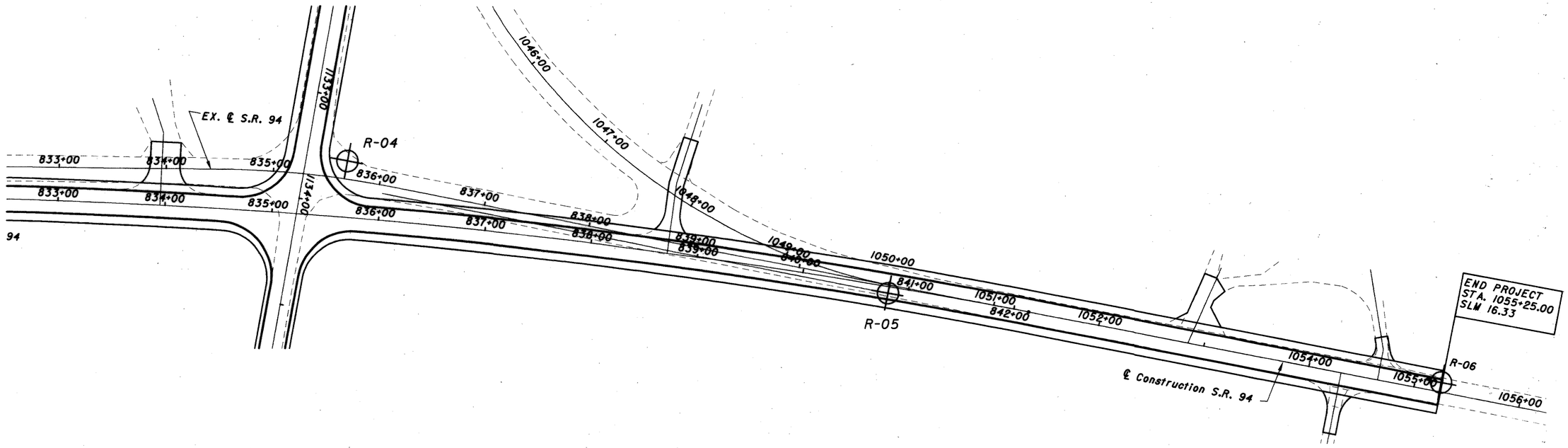
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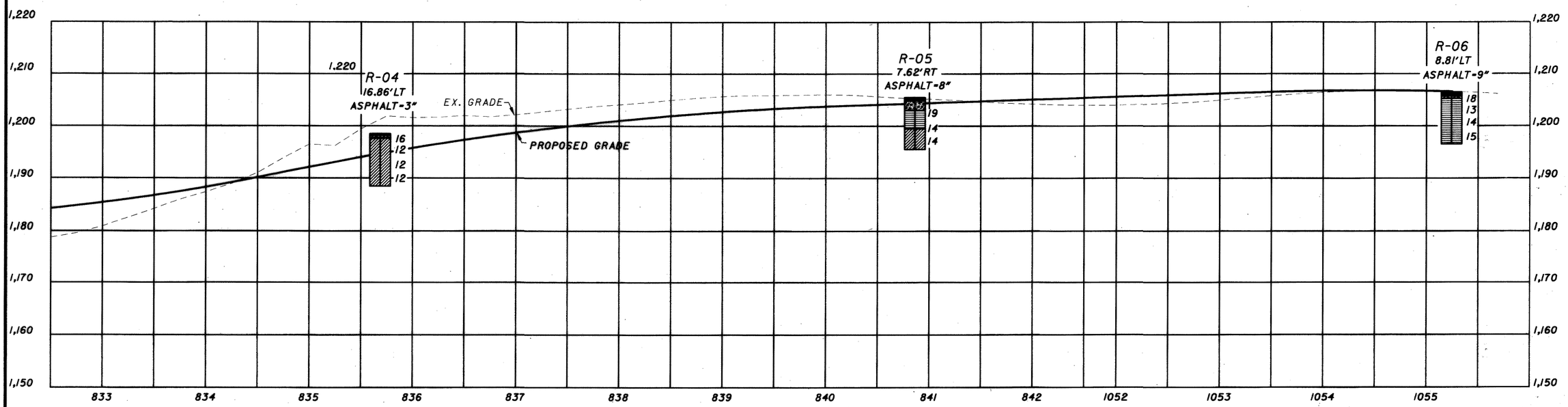
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MEDINA COUNTY
MED-94-15.82

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SOIL PROFILE

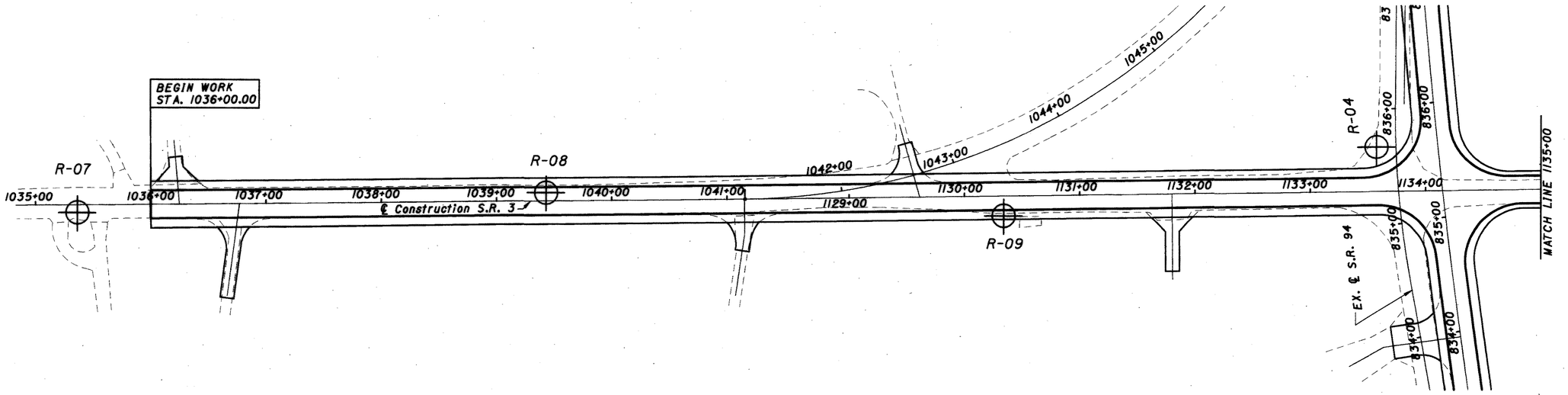
HORIZONTAL SCALE IN FEET
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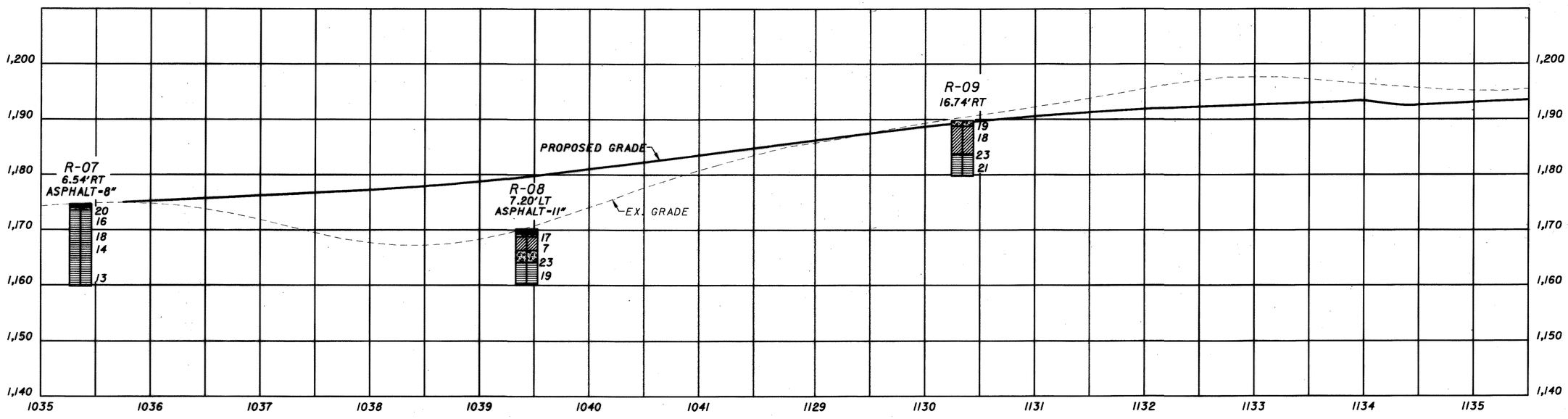
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MEDINA COUNTY
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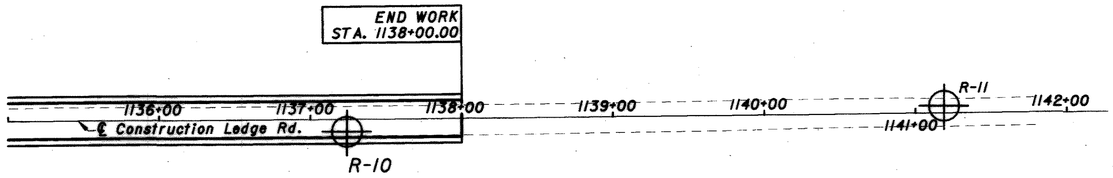
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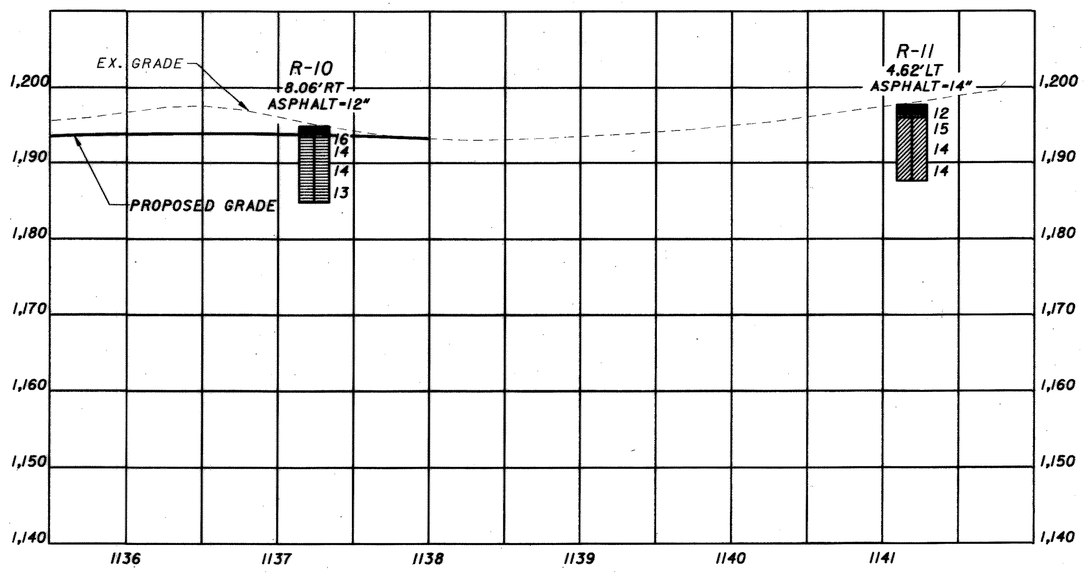
HORIZONTAL SCALE IN FEET
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MEDINA COUNTY
MED-94-15.82

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HORIZONTAL SCALE IN FEET
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SOIL PROFILE

MEDINA COUNTY
MED-94-15.82

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INTRODUCTION

THIS REPORT CONSISTS OF THE SOIL EXPLORATION FOR THE PROPOSED REPLACEMENT OF ODOT STRUCTURE NO. MED-94-15.82. THE EXISTING STRUCTURE SPANS A TRIBUTARY OF GRANGER DITCH. RELIEF ACROSS THE SITE IS APPROXIMATELY 7.5 FEET FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE CULVERT. THE PROJECT SITE IS LOCATED IN GRANGER TOWNSHIP, MEDINA COUNTY, OHIO. INCLUDED IN THIS REPORT ARE TYPED DRILLING LOGS AND LAB RESULTS AT THE TEST BORING LOCATIONS.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

THE PROJECT SITE LIES ON THE GLACIATED, MODERATELY DISSECTED ALLEGHENY PLATEAU AT AN APPROXIMATE ELEVATION OF 1170 FEET. THE SITE WAS GLACIATED BY THE WISCONSIN ICE SHEET WHICH DEPOSITED DRIFT OF VARIABLE THICKNESS. THE NATURAL SOILS ENCOUNTERED BELOW THE SILT AND CLAY (A-6a) EMBANKMENT FILL CONSISTED PRIMARILY OF NON-COHESIVE SILT (A-4b), NON-COHESIVE SANDY SILT (A-4a), SANDSTONE FRAGMENTS WITH SAND (A-1-b) AND GRAVEL AND SANDSTONE FRAGMENTS WITH SAND AND SILT (A-2-4). THESE SOILS OVERLIE MISSISSIPPIAN AGE SANDSTONE OF THE BEREA FORMATION. BEDROCK WAS ENCOUNTERED AT AN ELEVATION OF 1153.5 FEET IN TEST BORING B-2.

EXPLORATION

A TOTAL OF TWO (2) EXPLORATORY TEST BORINGS WERE ADVANCED BY A TRUCK-MOUNTED, MECHANICALLY POWERED, HOLLOW-STEM ROTARY DRILL ON JULY 23 AND 24, 2001. TEST BORING B-1 WAS ADVANCED TO A DEPTH OF 26.9 FEET AND TEST BORING B-2 WAS ADVANCED TO A DEPTH OF 30.0 FEET.

INVESTIGATIONAL FINDINGS

SOILS ENCOUNTERED AT THE PROJECT SITE CONSISTED OF EMBANKMENT FILL CONSISTING PRIMARILY OF SILT AND CLAY (A-6a). NATURAL SOILS ENCOUNTERED BELOW THE EMBANKMENT FILL CONSISTED PRIMARILY OF NON-COHESIVE SILT (A-4b), NON-COHESIVE SANDY SILT (A-4a), SANDSTONE FRAGMENTS WITH SAND (A-1-b) AND GRAVEL AND SANDSTONE FRAGMENTS WITH SAND AND SILT (A-2-4). ONE OF TWO COHESIVE EMBANKMENT SOILS TESTED FOR ATTERBERG LIMITS HAD A MOISTURE CONTENT GREATER THAN ITS PLASTIC LIMIT BUT LESS THAN ITS PLASTIC LIMIT. THE NATURAL NON-COHESIVE SOILS RANGED IN RELATIVE DENSITY FROM "LOOSE" TO "VERY DENSE" BUT WERE PREDOMINANTLY "VERY DENSE".

BEDROCK WAS ENCOUNTERED AT AN ELEVATION OF 1153.5 FEET IN TEST BORING B-2. THE BEDROCK CONSISTED OF MEDIUM HARD, WEATHERED TO SLIGHTLY WEATHERED SANDSTONE WITH MODERATE TO THIN BEDDING. THE CONDITION OF THE BEDROCK WAS GENERALLY POOR.

NEAR ARTESIAN GROUNDWATER CONDITIONS WERE ENCOUNTERED IN TEST BORING B-1. GROUNDWATER WAS ENCOUNTERED DURING DRILLING AT AN ELEVATION OF 1172.36 FEET (0.8 FEET BELOW THE SURFACE) AND AT AN ELEVATION OF 1169.16 FEET UPON COMPLETION OF DRILLING. GROUNDWATER WAS ENCOUNTERED IN TEST BORING B-2 DURING DRILLING AT AN ELEVATION OF 1164.53 FEET AND AT AN ELEVATION OF 1168.53 FEET UPON COMPLETION OF DRILLING. NOTE THAT A CYLINDRICAL CONTAINER/WELL WAS LOCATED EAST OF THE CULVERT WHICH CONTAINED A WATER LEVEL AT THE TOP OF THE CONTAINER THAT WAS ABOVE THE GROUND SURFACE.

CONTINUOUS SCOUR SAMPLES WERE OBTAINED FROM TEST BORING B-2 AT DEPTHS RANGING FROM 6.0 TO 12.0 FEET BELOW THE SURFACE. THE SCOUR SAMPLES WERE CLASSIFIED AS SILT (A-4b) AND SANDY SILT (A-4a). THE D50 OF THE SCOUR SAMPLES WERE FOUND TO RANGE FROM 0.0008 TO 0.0069 INCHES. A TABLE SHOWING THE RESULTS OF THE D50 GRAIN SIZE DETERMINATIONS CAN BE FOUND ON PAGE 3 OF THESE PLANS.

FOR SPECIFIC CONDITIONS AT VARIOUS DEPTHS, PLEASE REFER TO THE INDIVIDUAL TEST BORING LOGS THAT FORM A PART OF THESE PLANS.

SYMBOLS OF ROCK TYPES

COAL	WEATHERED SILTSTONE
FIRE CLAY OR UNDERCLAY	SILTSTONE
WEATHERED MUDSTONE	WEATHERED SANDSTONE
MUDSTONE	SANDSTONE
WEATHERED SHALE	LEACHED DOLOMITE
SHALE	DOLOMITE
WEATHERED CLAY-SHALE	LEACHED LIMESTONE
CLAY-SHALE	LIMESTONE
BOULDERS or COBBLES	

PARTICLE SIZE DEFINITIONS

11.8 in	2.95 in	0.08 in		0.016 in		0.0029 in	0.0002 in
Boulders	Cobbles	Gravel	Coarse Sand		Fine Sand	Silt	Clay
			No. 10 SIEVE	No. 40 SIEVE		No. 200 SIEVE	

LEGEND

- ⊕ AUGER BORING LOCATION-PLAN VIEW.
- ⊕ PRESS AND/OR DRIVE SAMPLE AND/OR CORE BORING LOCATION-PLAN VIEW.
- TR TOP OF ROCK
- W—— INDICATES FREE WATER ELEVATION
- ▼—— INDICATES STATIC WATER ELEVATION
- ⊢ HORIZONTAL BAR ON BORING LOG INDICATES THE DEPTH THE SAMPLE WAS TAKEN - PROFILE VIEW

X-Y-Z FIGURES BESIDE THE BORING LOG IN PROFILE INDICATE THE NUMBER OF BLOWS FOR STANDARD PENETRATION TEST.

- X - NO. OF BLOWS FOR FIRST 6 INCHES
- Y - NO. OF BLOWS FOR SECOND 6 INCHES
- Z - NO. OF BLOWS FOR THIRD 6 INCHES

GENERAL INFORMATION

DRIVE SAMPLES

DRIVE SAMPLE BORINGS ARE MADE BY MEANS OF A MECHANICALLY-POWERED, ROTARY-TYPE DRILL RIG EMPLOYING A 2 INCH O.D., 1.4 INCH I.D., SPLIT-SPOON SAMPLER, AT CONTINUOUS, 2.5 FEET AND/OR 5.0 FEET DEPTH INTERVALS, DRIVEN BY MEANS OF A 140 LB HAMMER WITH A FREE FALL OF 30 INCHES THE NUMBER OF BLOWS REQUIRED TO DRIVE THE SAMPLER THREE 6 INCH INCREMENTS IS CONSIDERED THE STANDARD PENETRATION TEST.

PRESS SAMPLES

PRESS SAMPLES ARE TAKEN BY MEANS OF MECHANICALLY-POWERED, ROTARY-TYPE DRILL RIG, EMPLOYING A 3 INCH O.D. THIN WALL PRESS SAMPLING TUBE. THE PRESS SAMPLING TUBE IS ADVANCED BY CONTINUOUS UNIFORM PRESSURE APPLIED BY THE DRILL RIG.

CORE BORINGS

CORE BORINGS ARE MADE BY MEANS OF A MECHANICALLY-POWERED, ROTARY-TYPE DRILL RIG, EMPLOYING AN NW-PAM CORE BARREL WITH AN INDUSTRIAL DIAMOND CUTTING HEAD.

SAMPLING AND TESTING

THE BORING LOG SHEETS SHOW A GRAPHIC PLOT OF THE INFORMATION OBTAINED, INCLUDING DEPTH AND ELEVATION OF THE SAMPLE, TYPE OF SAMPLE, NUMBER OF BLOWS FOR THE STANDARD PENETRATION TEST IN THREE 6 INCH INCREMENTS, AND A SAMPLE DESCRIPTION BASED ON LABORATORY TEST RESULTS, UTILIZING THE ODOT CLASSIFICATION SYSTEM. RESULTS OF STRENGTH AND CONSOLIDATION TESTING, IF PERFORMED ON UNDISTURBED SAMPLES, APPEAR GRAPHICALLY ON SEPARATE ENCLOSURES. ROCK SAMPLES ARE DISPLAYED ON THE LOG SHEETS, INCLUDING DEPTH AND ELEVATION OF THE SAMPLE, AMOUNT OF RECOVERY, AND A VISUAL CLASSIFICATION BASED ON TYPE, COLOR, DEGREE OF HARDNESS, GRAIN SIZE, DETERIORATION, BEDDING, ACID REACTION, AND OTHER QUALIFYING FACTORS.

AT DEPTHS WHERE MATERIALS ARE BOULDERY OR GRAVELLY TO THE EXTENT THAT A SAMPLER CANNOT BE UTILIZED, A WASH SAMPLE IS PROCURED AND VISUALLY CLASSIFIED, IN ORDER TO DETERMINE THE GENERAL CHARACTERISTICS OF THE MATERIAL. THESE SAMPLES ARE NOT CONSIDERED SUFFICIENTLY REPRESENTATIVE TO WARRANT LABORATORY TESTING.

NOTES

ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN ON THE STRUCTURE FOUNDATION INVESTIGATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE INVESTIGATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF MATERIALS MANAGEMENT AT 1600 WEST BROAD STREET, THE OFFICE OF ROADWAY ENGINEERING OR THE OFFICE OF STRUCTURAL ENGINEERING AT 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

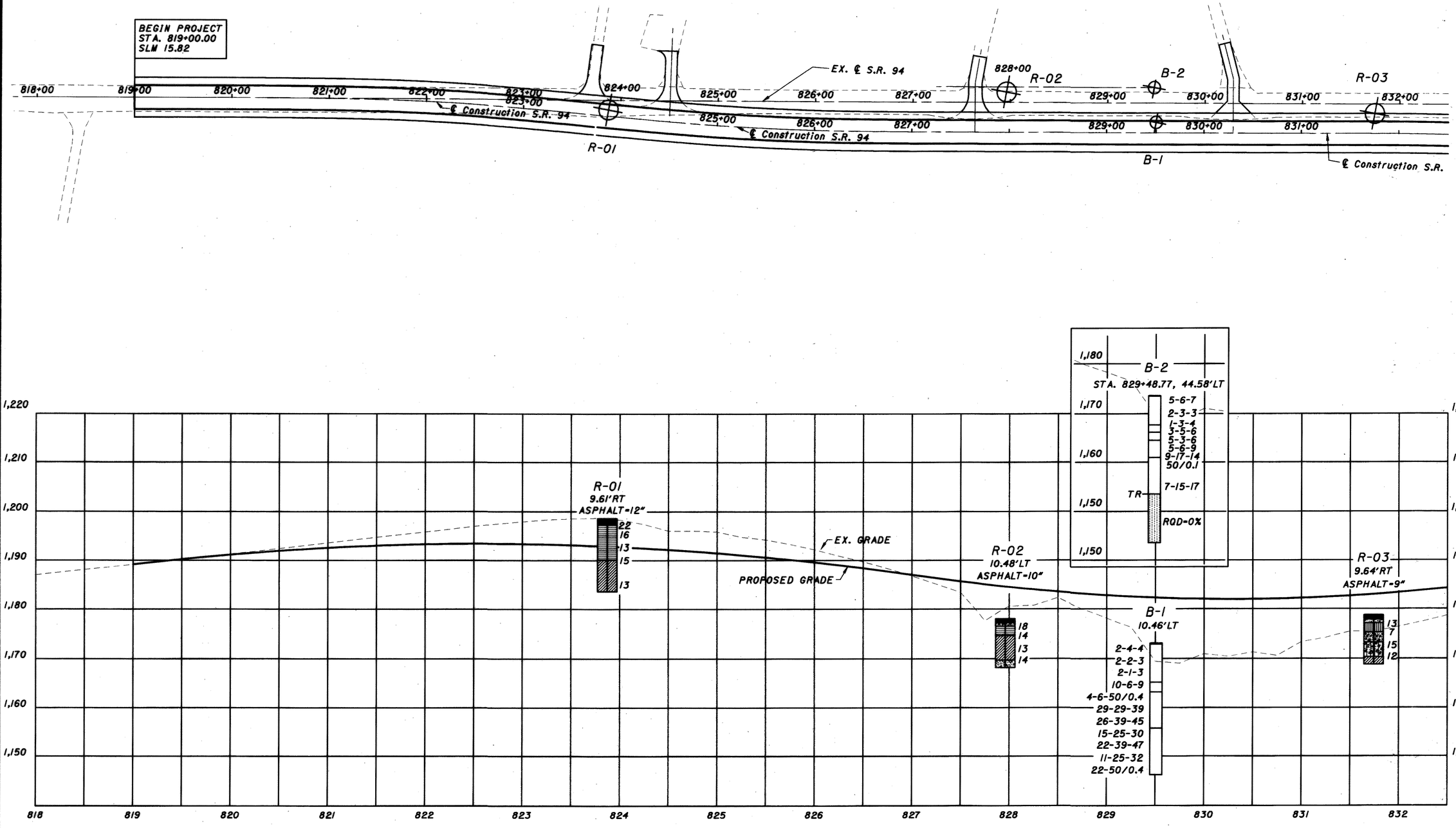
PRIME ENGINEERING & ARCHITECTURE, INC.
COLUMBUS (614) 847-2100
AKRON (330) 666-5432

DRAWN	REVIEWED	DATE	CALCULATED	CHECKED
BM	SM	09/27/01	WIN	SSS

STRUCTURE FOUNDATION INVESTIGATION
SR-94 CULVERT AT STA. 829+65.74

MED-94-15.82

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N

HORIZONTAL SCALE IN FEET
0 50 100

CALCULATED	CHECKED
WIN	SSS

DATE	
09/27/01	

REVIEWED	
SM	

DRAWN	
BM	

STRUCTURE FOUNDATION INVESTIGATION

SR-94 CULVERT AT STA. 829+65.74

MED-94-15.82

2/3

7/8

...\Working Drawings\01041-2.dgn 09/26/2001 05:27:43 PM

\Working Drawings\01041-3.dgn 09/28/2001 05:09:22 PM

State of Ohio
Department of Transportation
Division of Highways
Testing Laboratory

LOG OF BORING

Date Started 7/23/01 Sampler: Type SS Dia. 2.0" Water Elev. 1169.2ft
Date Completed 7/23/01 Casing: Length ____ Dia. 3.25"

Project Identification: MED-94-15.82
G01041
Medina County, OH

Boring No. B-1 Station & Offset 829+50.75, 10.46' Lt. Surface Elev. 1173.16ft

Elev. (ft)	Depth (ft)	Std. Pene. /Ft or RQD	Rec. (ft)	Loss (ft)	Description	Sample No.	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	ODOT Class
1173.2	0														
1173.0					TOPSOIL										
	2	2 - 4 - 4			Medium stiff to soft, brown SILT AND CLAY (A-6a), trace sand, no to little organics, moist. (embankment fill)	1	--	--	--	--	--	--	--	22	VISUAL
					Note: Groundwater was encountered at 0.8 feet upon completion of drilling. An artesian well was located adjacent to the roadway which was pumped dry and recharged after approximately 1 hour.										
	4	2 - 2 - 3				2	0	2	7	--	92 *	32	14	28	A-6a
	6	2 - 1 - 3				3	--	--	--	--	--	--	--	48	VISUAL
1165.2	8														
		10 - 6 - 9			Medium dense, brown, non-cohesive SILT (A-4b), some fine sand, wet at 8.0 feet during drilling.	4	--	--	--	--	--	--	--	18	VISUAL
1163.2	10														
	12	4 - 6 - 50/0.4			Very dense, brown GRAVEL AND SANDSTONE FRAGMENTS WITH SAND AND SILT (A-2-4), wet.	5	21	17	29	--	33 *	--	--	19	A-2-4
	14	29 - 29 - 39				6	36	12	29	--	23 *	--	--	11	A-2-4
	16	26 - 39 - 45				7	35	13	32	--	20 *	--	--	10	A-2-4
1155.8	18														
		15 - 25 - 30			Very dense, brown SANDSTONE FRAGMENTS WITH SAND, little to some silt and clay, wet.	8	52	9	25	--	13 *	--	--	14	A-1-b
	20														
	22	22 - 39 - 47				9	--	--	--	--	--	--	--	15	VISUAL
	24	11 - 25 - 32				10	--	--	--	--	--	--	--	16	VISUAL
	26														
1146.3		22 - 50/0.4				11	--	--	--	--	--	--	--	22	VISUAL
					TERMINATION DEPTH = 26.9 FEET										

Particle Sizes: Agg => 2.00mm, Coarse Sand = 2.00-0.42mm, Fine Sand = 0.42-0.074mm, Silt = 0.074-0.005mm, Clay =< 0.005mm. *Silt and Clay combined

State of Ohio
Department of Transportation
Division of Highways
Testing Laboratory

LOG OF BORING

Date Started 7/24/01 Sampler: Type SS Dia. 2.0" Water Elev. 1168.5ft
Date Completed 7/24/01 Casing: Length ____ Dia. 3.25"

Project Identification: MED-94-15.82
G01041
Medina County, OH

Boring No. B-2 Station & Offset 829+48.77, 44.58' Lt. Surface Elev. 1173.53ft

Elev. (ft)	Depth (ft)	Std. Pene. /Ft or RQD	Rec. (ft)	Loss (ft)	Description	Sample No.	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	ODOT Class
1173.5	0														
1173.4					TOPSOIL										
	2	5 - 6 - 7			Stiff to medium stiff, brown SILT AND CLAY (A-6a), some sand, moist. (embankment fill)	1	0	11	16	--	73 *	29	12	16	A-6a
	4	2 - 3 - 3				2	--	--	--	--	--	--	--	22	VISUAL
1167.5	6														
		1 - 3 - 4			Loose, brown, non-cohesive SANDY SILT (A-4a), some clay, moist. (embankment fill)	3	0	19	19	37	25	--	--	22	A-4a
1166.0	8														
		3 - 5 - 6			Medium dense, brown, non-cohesive SILT (A-4b), some clay, little sand, trace gravel, moist.	4	9	2	9	51	29	--	--	25	A-4b
1164.4															
	10	5 - 3 - 6			Loose to medium dense, brown, non-cohesive SANDY SILT (A-4a), some to little sandstone fragments, little clay, wet at 9.1 feet during drilling.	5	29	10	20	25	16	--	--	17	A-4a
		5 - 6 - 9				6	12	19	32	--	37 *	--	--	13	A-4a
	12														
1160.9		9 - 17 - 14				7	24	27	30	--	19 *	--	--	14	A-1-b
					Dense to very dense, brown SANDSTONE FRAGMENTS WITH SAND (A-1-b), little silt and clay, wet.	8	--	--	--	--	--	--	--		VISUAL
	14	50/0.1													
					Note: Encountered boulders and/or cobbles at 13.5 feet. Attempted SS sample, augered and cored from 15.0 feet to 17.5 feet. Cored through boulder and drove another SS sample at 18.5 feet. Augered down to 20.0 feet and encountered resistance. Cored fr										
	16														
	18														
		7 - 15 - 17			Note: Augered down to 20.0 feet and encountered resistance on sandstone bedrock.	9	--	--	--	--	--	--	--	13	VISUAL
1153.5	20														
		ROD = 0%	3.0	7.0	Medium hard, brown, weathered to slightly weathered, medium to fine grained SANDSTONE with moderate to thin bedding, cross bedded with bedding planes at 5 to 10 degrees from horizontal.										
	22														
	24														
	26														
	28														
1143.5	30														
					TERMINATION DEPTH = 30.0 FEET										

Particle Sizes: Agg => 2.00mm, Coarse Sand = 2.00-0.42mm, Fine Sand = 0.42-0.074mm, Silt = 0.074-0.005mm, Clay =< 0.005mm. *Silt and Clay combined

D50 - GRAIN SIZE DETERMINATION

BORING NUMBER	SAMPLE NUMBER	DEPTH (FT)	D50 (mm)	D50 (Inches)	ODOT CLASSIFICATION
B-2	3	6.0	0.038	0.0015	A-4a
	4	7.5	0.021	0.0008	A-4b
	5	9.0	0.176	0.0069	A-4a
	6	10.5	0.173	0.0068	A-4a

00	00	3/3	MED-94-15.82	STRUCTURE FOUNDATION INVESTIGATION SR-94 CULVERT AT STA. 829+65.74	DRAWN BM	REVIEWED SM	DATE 09/27/01	CALCULATED WIN CHECKED SSS

PRIME ENGINEERING & ARCHITECTURE, INC.
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