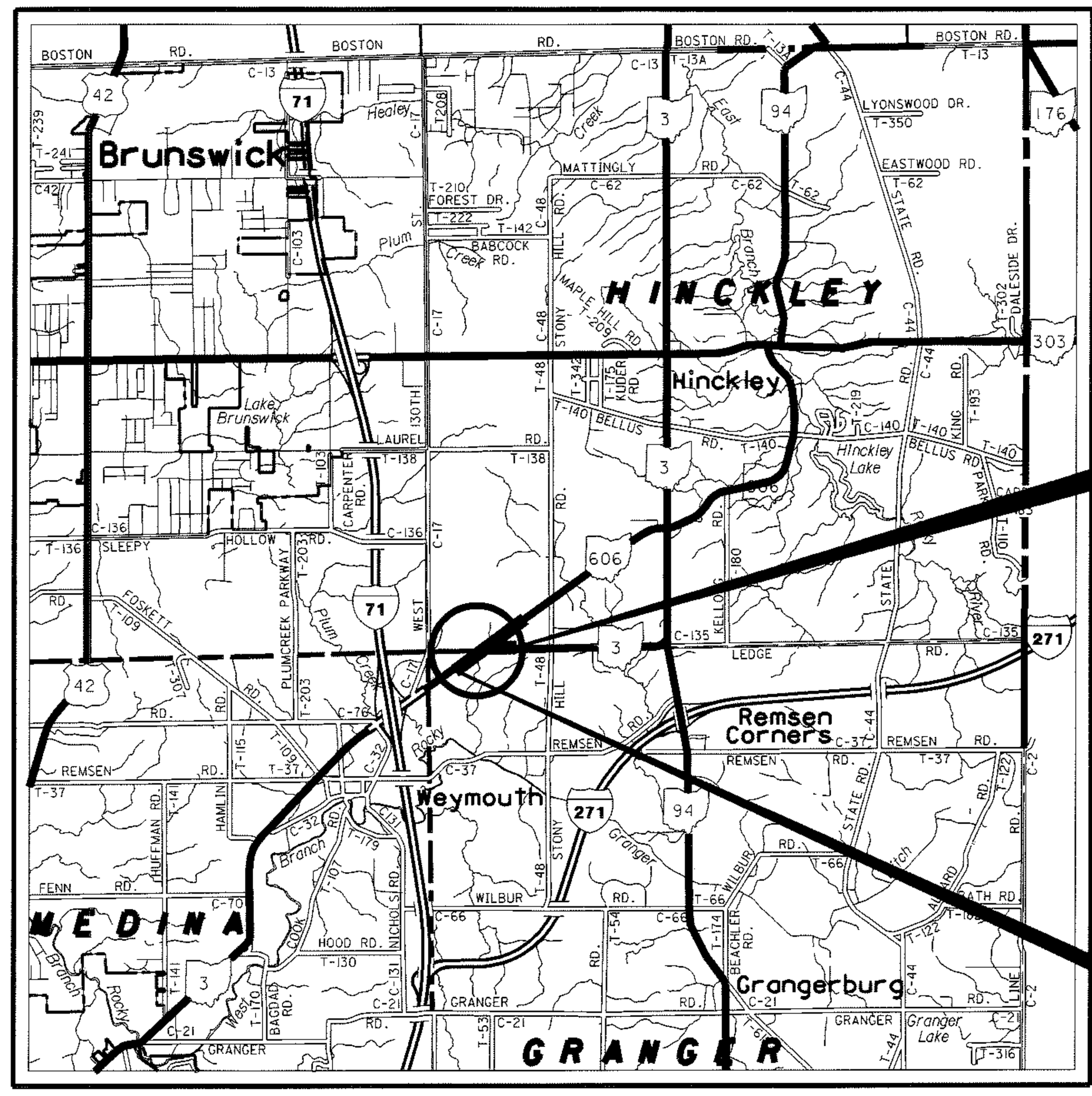


END PROJECT
STA. 958+50

BEGIN PROJECT
STA. 941+10

LOCATION MAP

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

SCALE IN MILES

0 1 2 3 4

N

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

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

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

INDEX OF SHEETS

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
DATE 10-8-03 DISTRICT DEPUTY DIRECTOR

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

PARTS 1 AND 2

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	
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			SPECIAL PROVISION	
						TC-71.10	4-19-02			NWP #3	
						TC-73.10	1-19-01			4-9-03	

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-48954 REGISTERED PROFESSIONAL ENGINEER

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

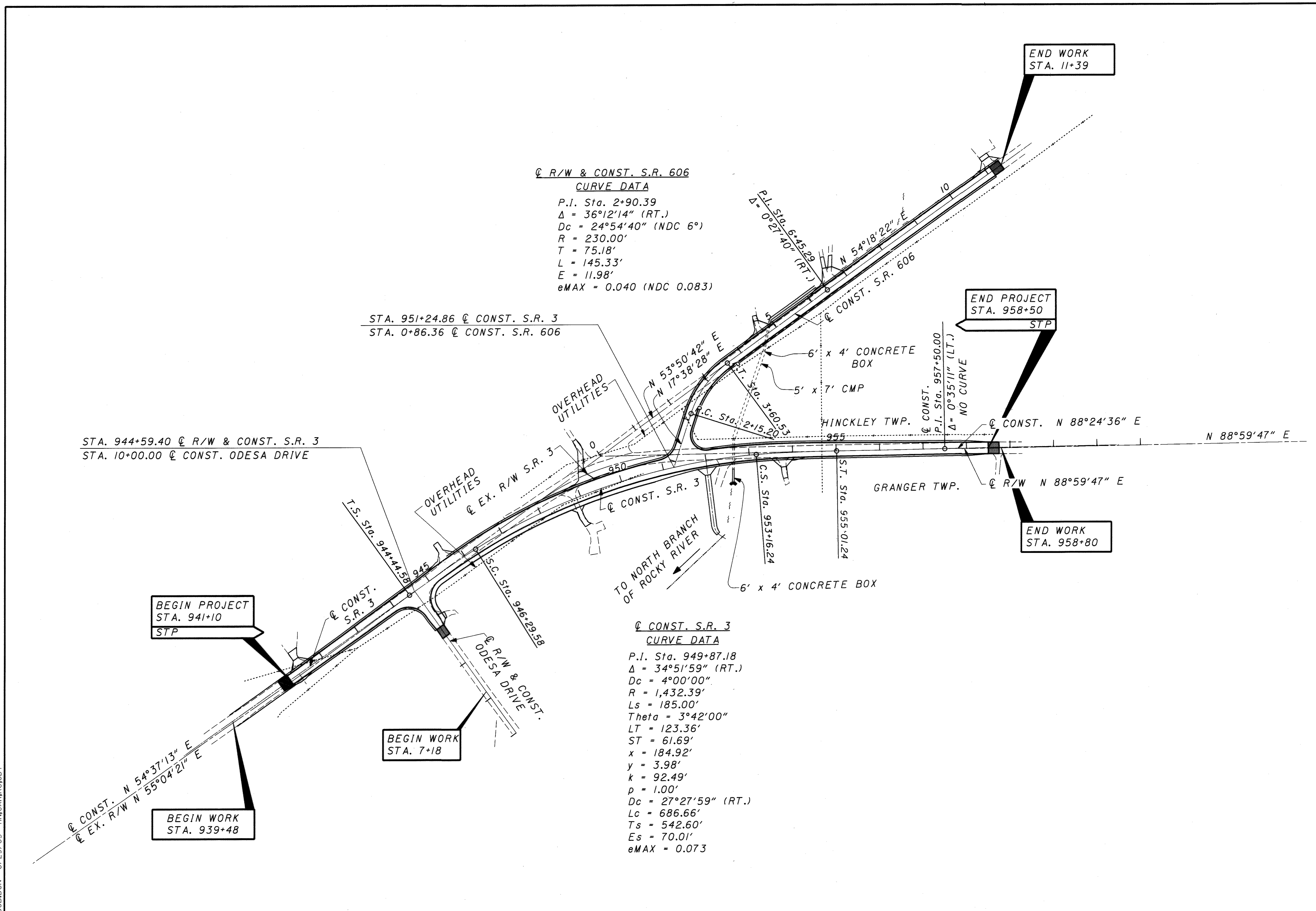
FEDERAL PROJECT NO. E 032 (893)

PID NO. 21984

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

MED-3-17.82



N

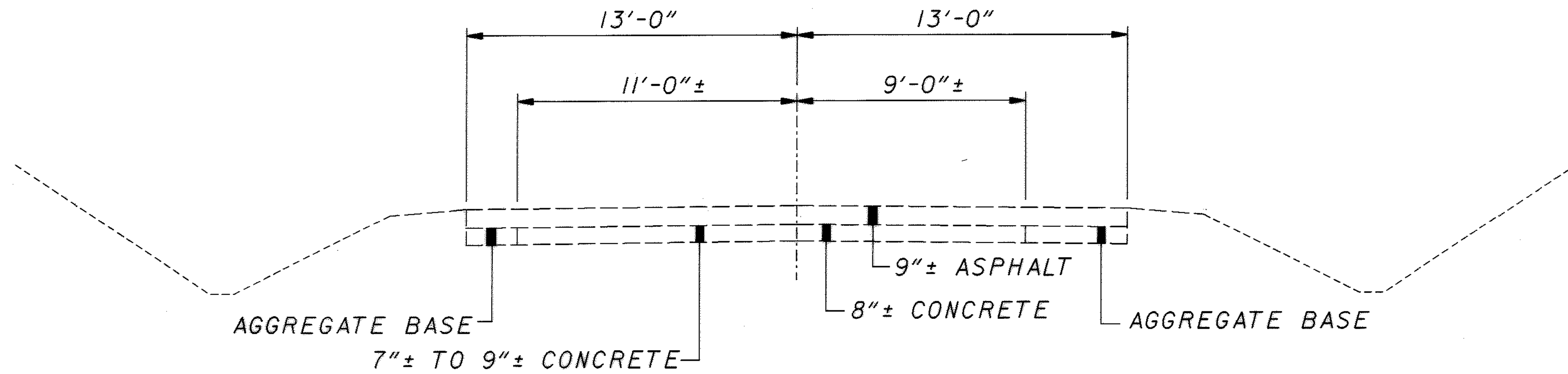
0 50 100 200
HORIZONTAL SCALE IN FEET

SCHEMATIC PLAN

MED-3-17.82

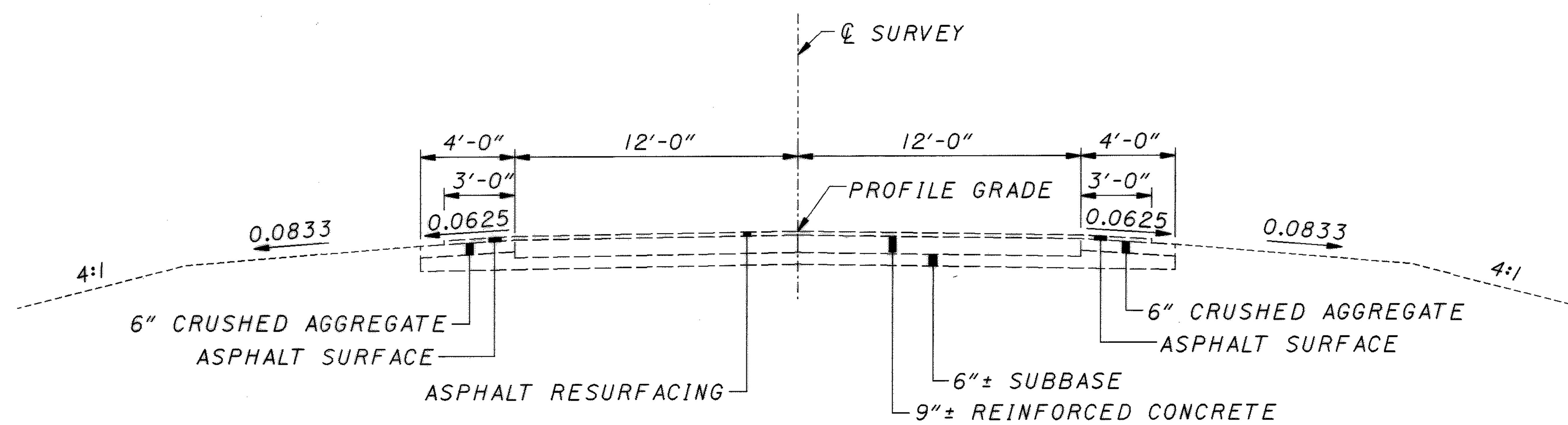
2
66

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

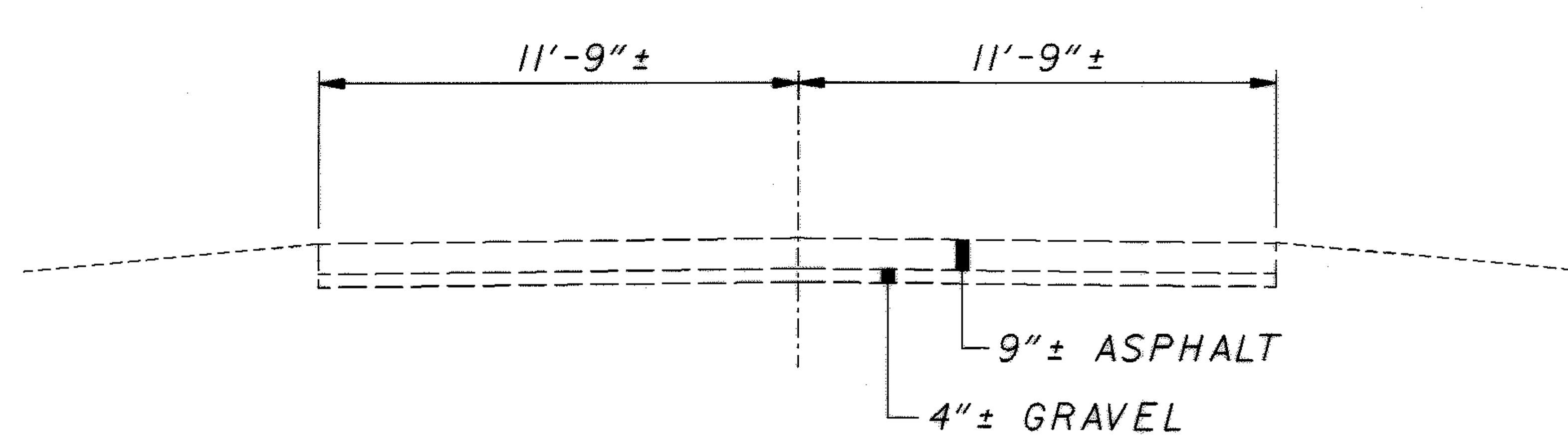


S.R. 3 EXISTING TYPICAL SECTION

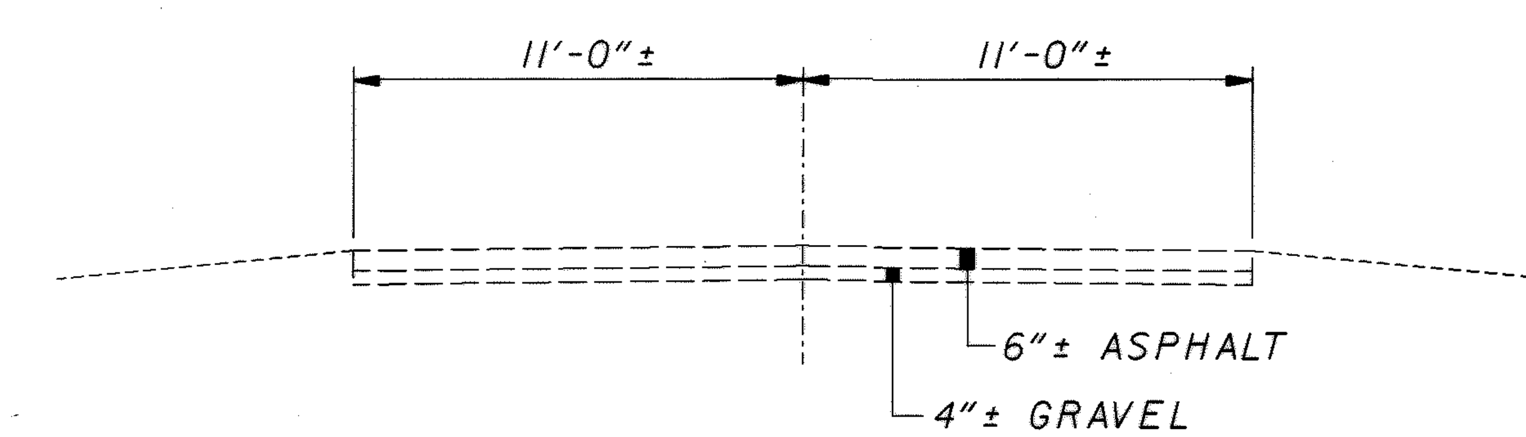
STA. 941+10 AND STA. 958+50



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



S.R. 606 EXISTING TYPICAL SECTION



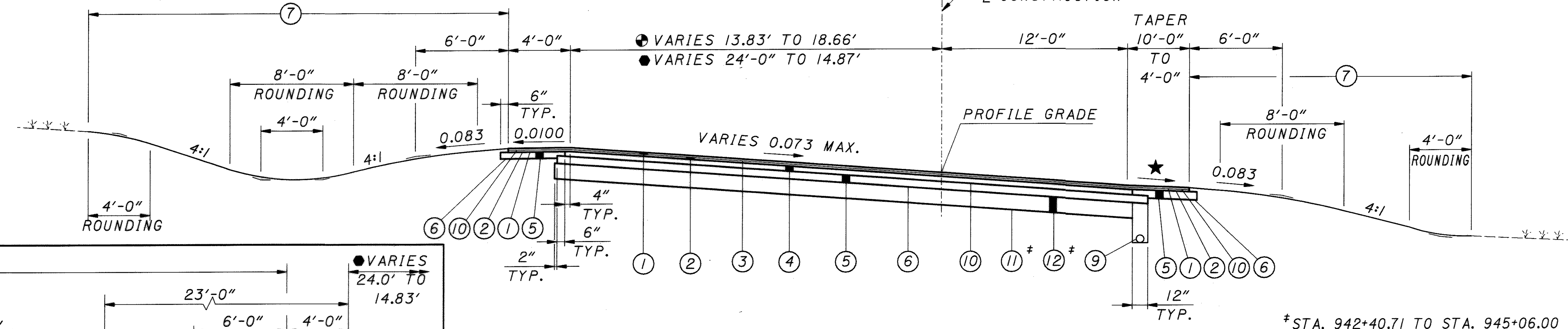
ODESA DRIVE EXISTING TYPICAL SECTION

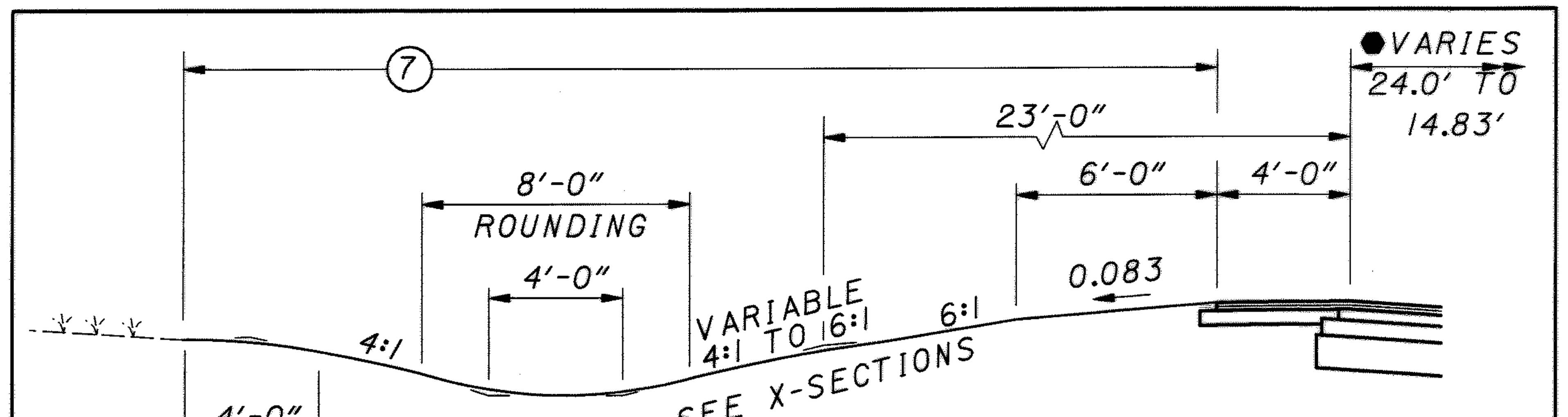
223GYD.DGN 05/02/02 HNJDY

CALCULATED TM CHECKED PDG

EXISTING TYPICAL SECTIONS

MED-3-17.82





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

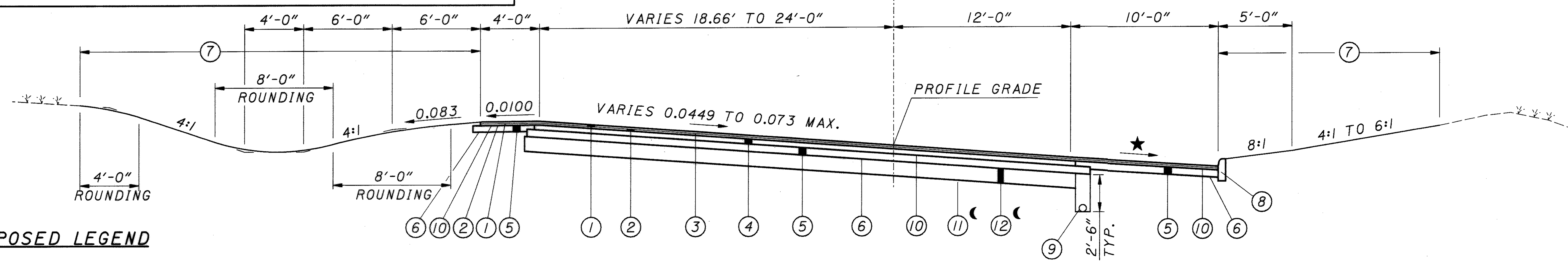
S.R. 3 SUPERELEVATED SECTION

◕ 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

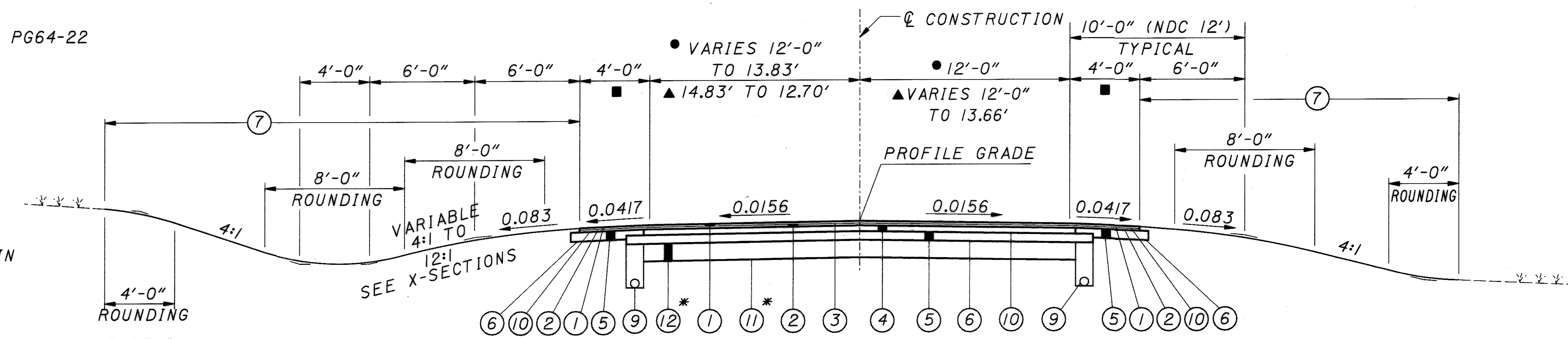
1. 448 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. 448 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
3. 407 TACK COAT FOR INTERMEDIATE COURSE (SEE GENERAL NOTE)
4. 301 5" ASPHALT CONCRETE BASE, PG64-22
5. 304 6" AGGREGATE BASE
6. 204 SUBGRADE COMPACTION
7. 659 SEEDING & MULCHING (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

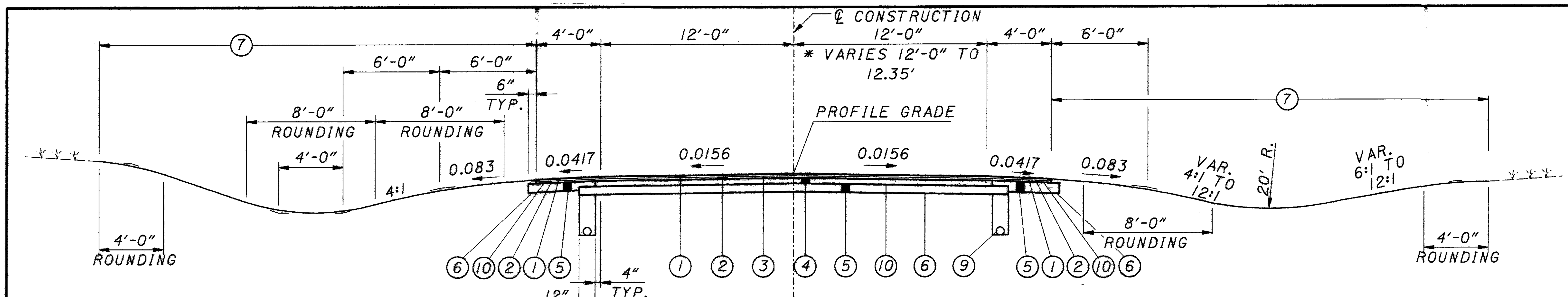
■ Taper from 4'-0" at 958+00 to 0'-0" at 958+50

CALCULATED TM
CHECKED PDG

S.R. 3 - TYPICAL SECTIONS

MED-3-17.82

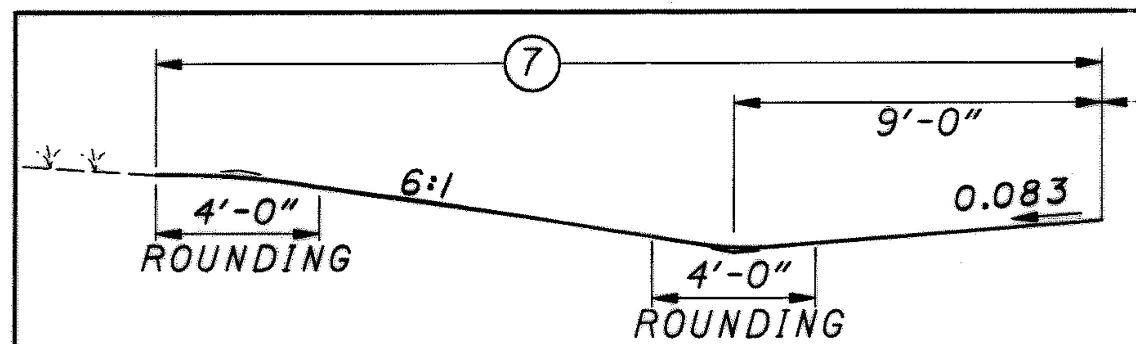
223GYA.DGN 8/28/03 HN,JDY,RC



S.R. 606 NORMAL SECTION

STA. 4+50.00 TO STA. 10+92.50

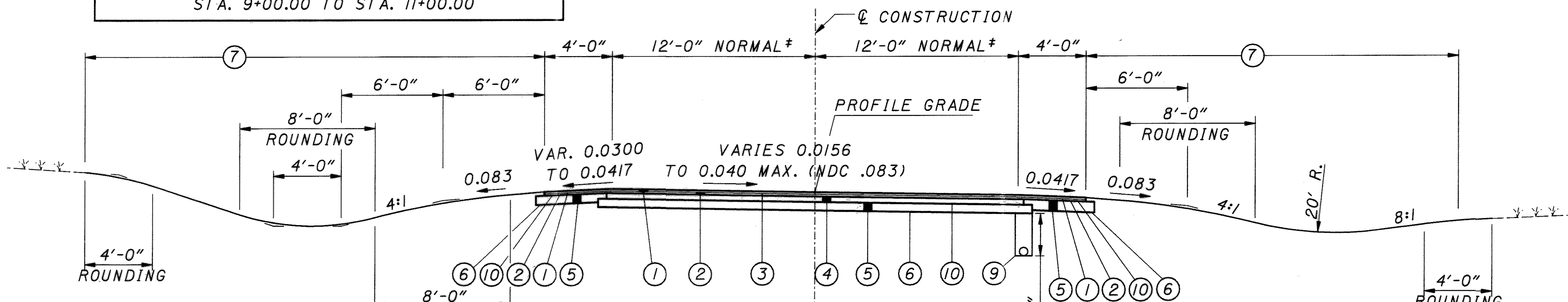
* STA. 10+92.50 TO STA. 11+11.64



S.R. 606

STA. 9+00.00 TO STA. 11+00.00

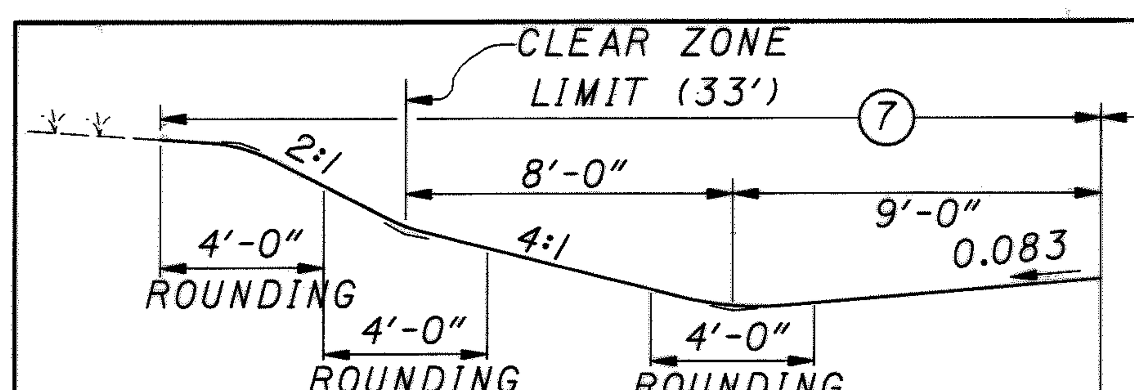
SEE SUPERELEVATION TABLE, SHEET NO. 8



S.R. 606 SUPERELEVATION SECTION

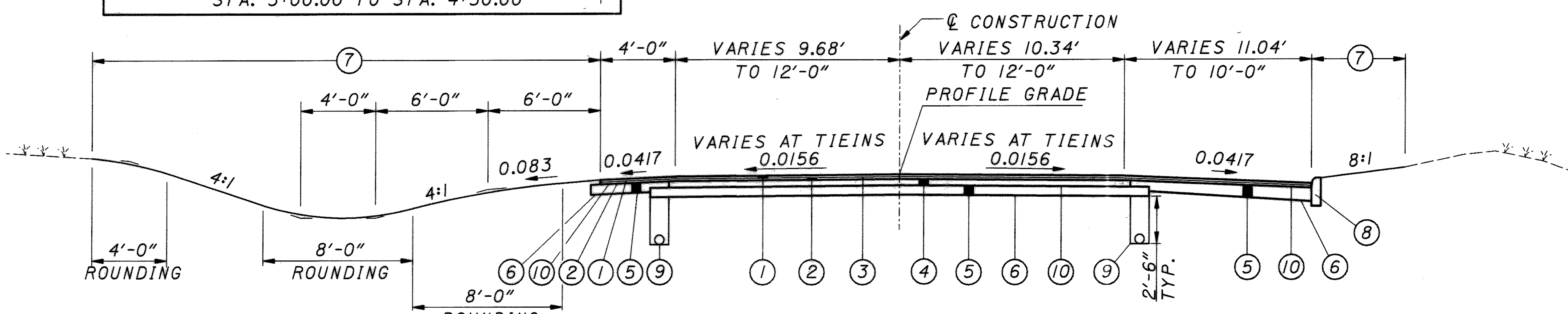
STA. 1+14.07 TO STA. 4+50.00

‡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

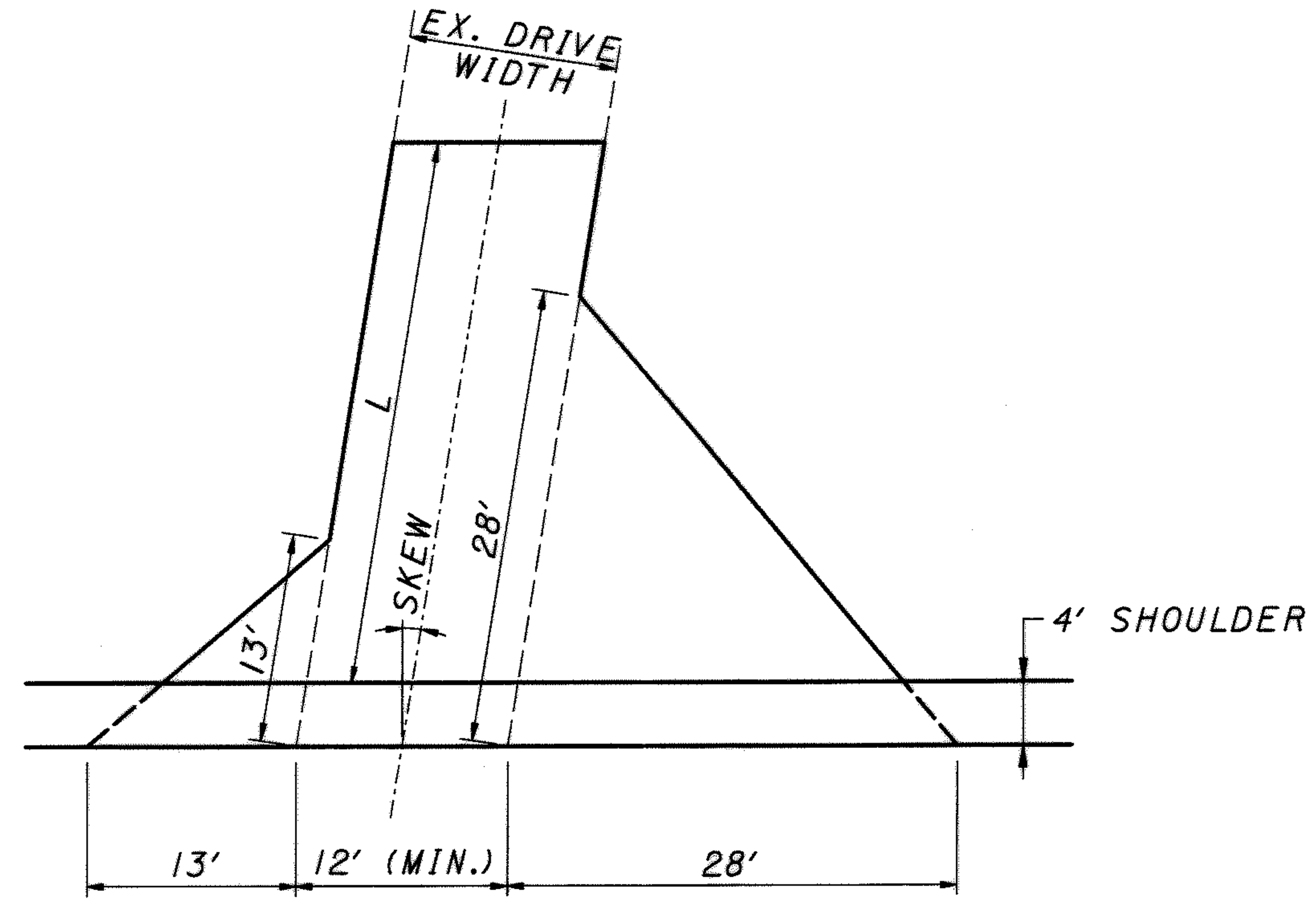
S.R. 606 AND ODESA DRIVE - TYPICAL SECTIONS

MED-3-17.82

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

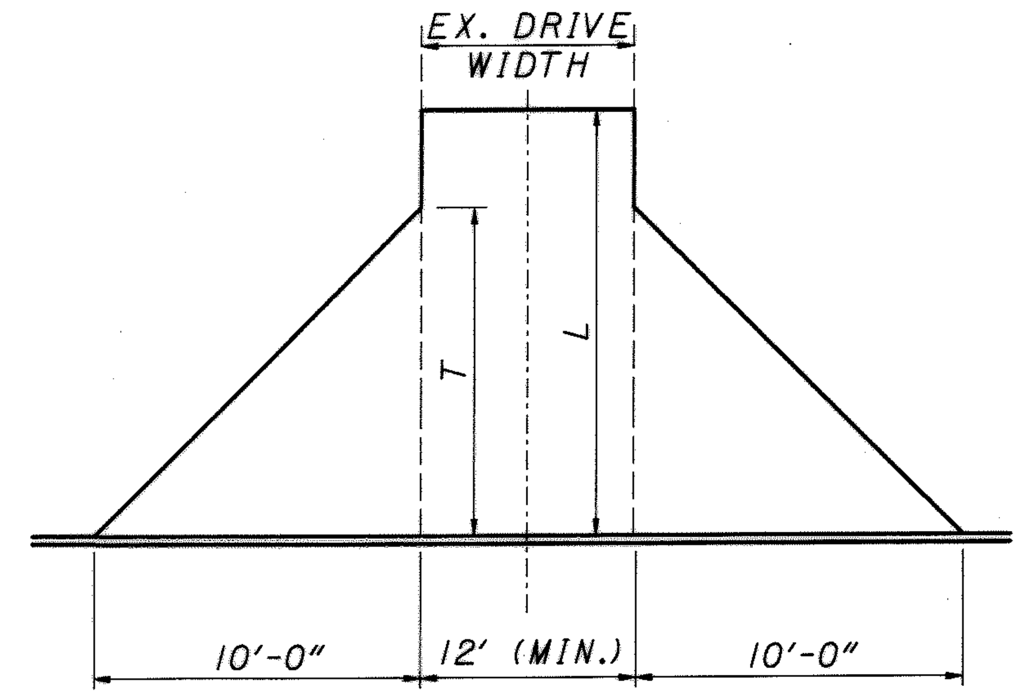
NOTE:
SAW OUT EXISTING ASPHALT AND CONCRETE PAVEMENTS FOR REMOVAL COST INCLUDED IN ITEM 202 OR 203.

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



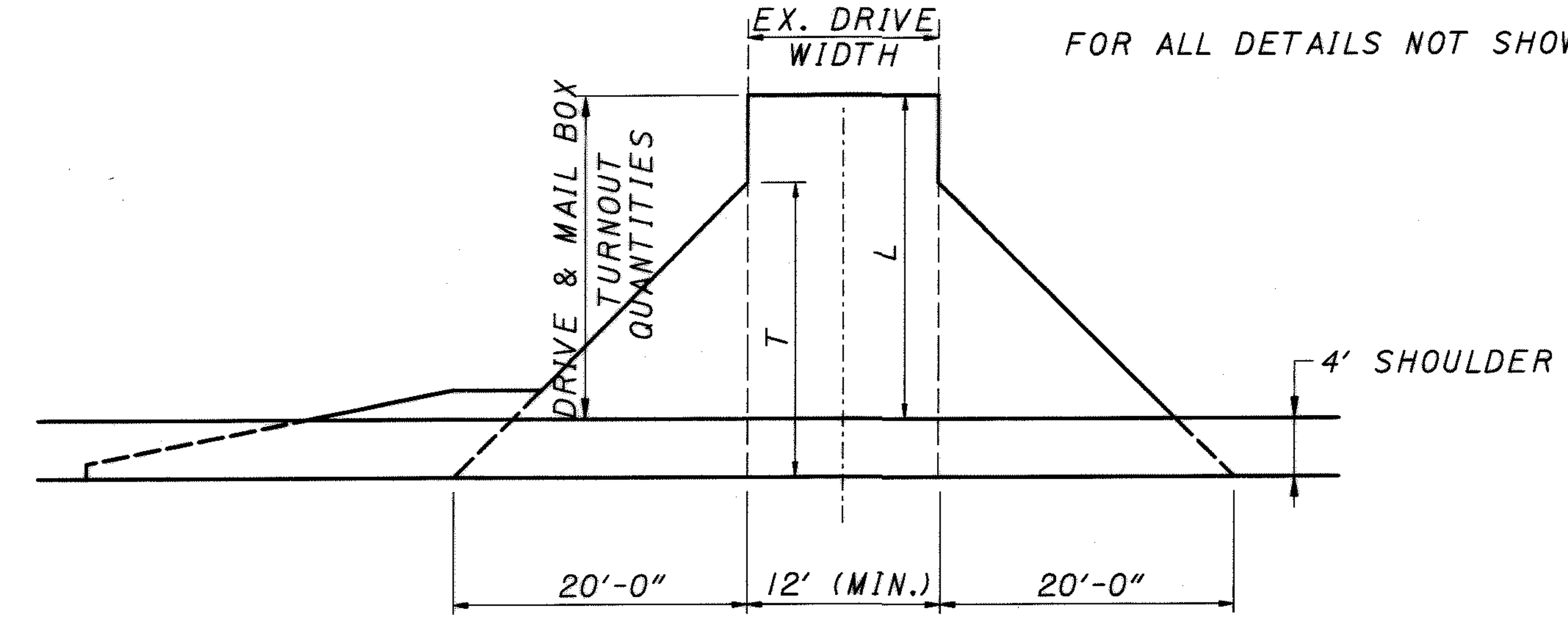
TYPE 3

DRIVEWAYS ADJACENT TO EDGE OF PAVEMENT



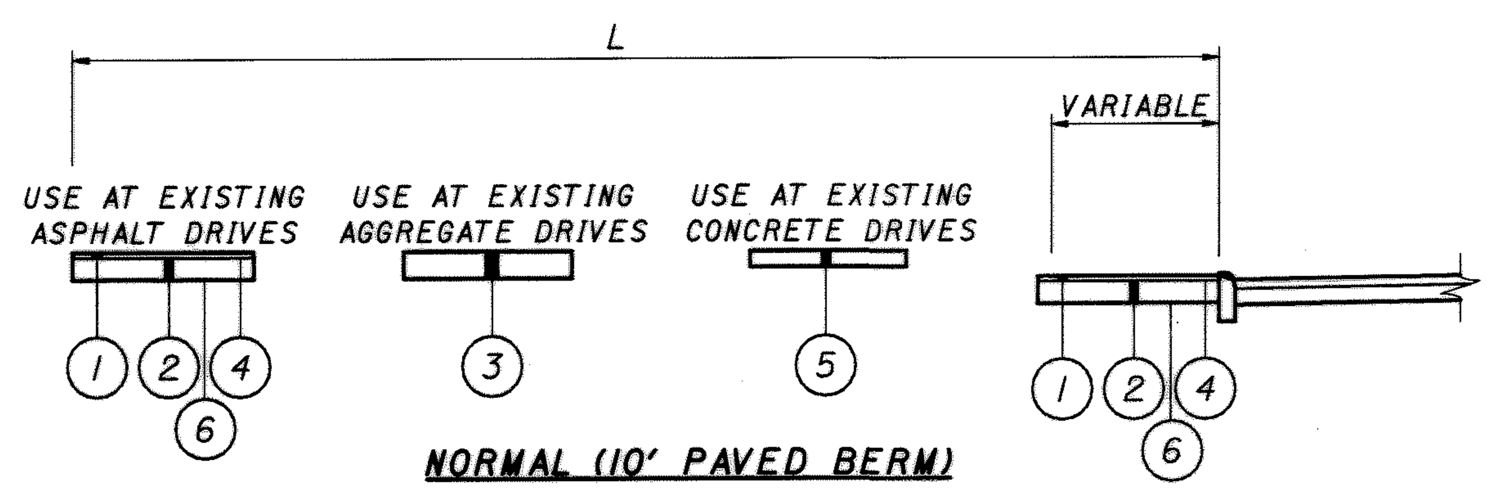
TYPE 1

DRIVEWAYS ADJACENT TO CURB



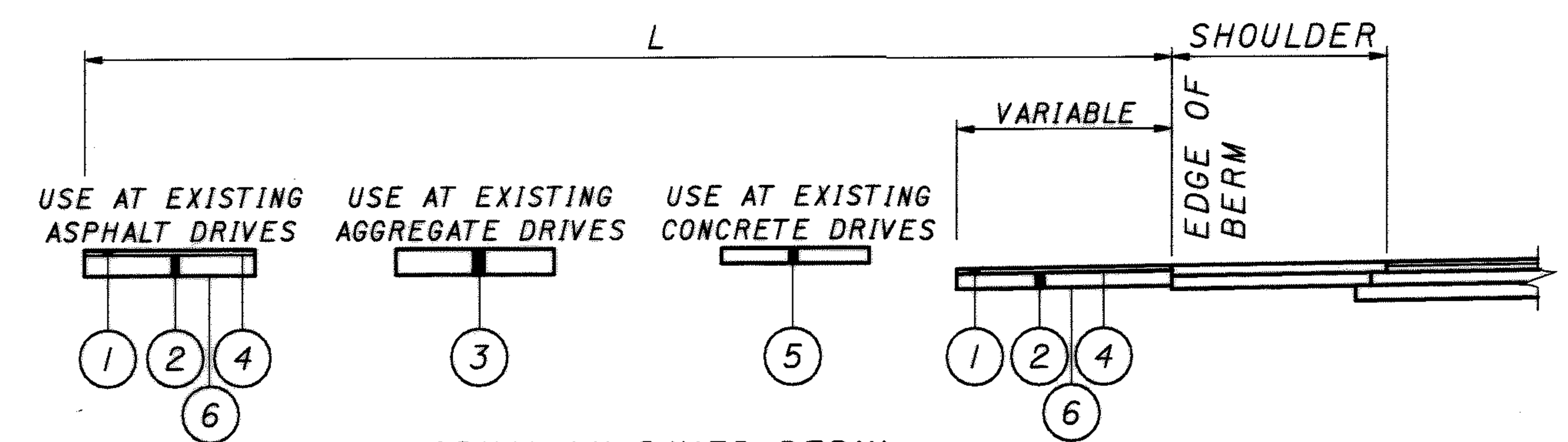
TYPE 2

DRIVEWAYS ADJACENT TO EDGE OF PAVEMENT



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 PAVEMENT REMOVED	204 SUBGRADE COMPACTION	304 AGGREGATE BASE 6"	304 AGGREGATE BASE 8"	408 PRIME COAT	448 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 PG64-22 (DRIVEWAYS)	452 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 1, 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									
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.	REMARKS
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

S.R. 3 - SUPERELEVATION TABLE

CALCULATED TM CHECKED EEL

MED-3-17.82

223GSA.DGN 12/13/01 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	+0.0042		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

22365A.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	LUMP	
ITEM 832 STORM WATER POLLUTION PREVENTION PLAN	1	EACH

CALCULATED TM
CHECKED PDG

GENERAL NOTES

MED-3-17.82

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

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.

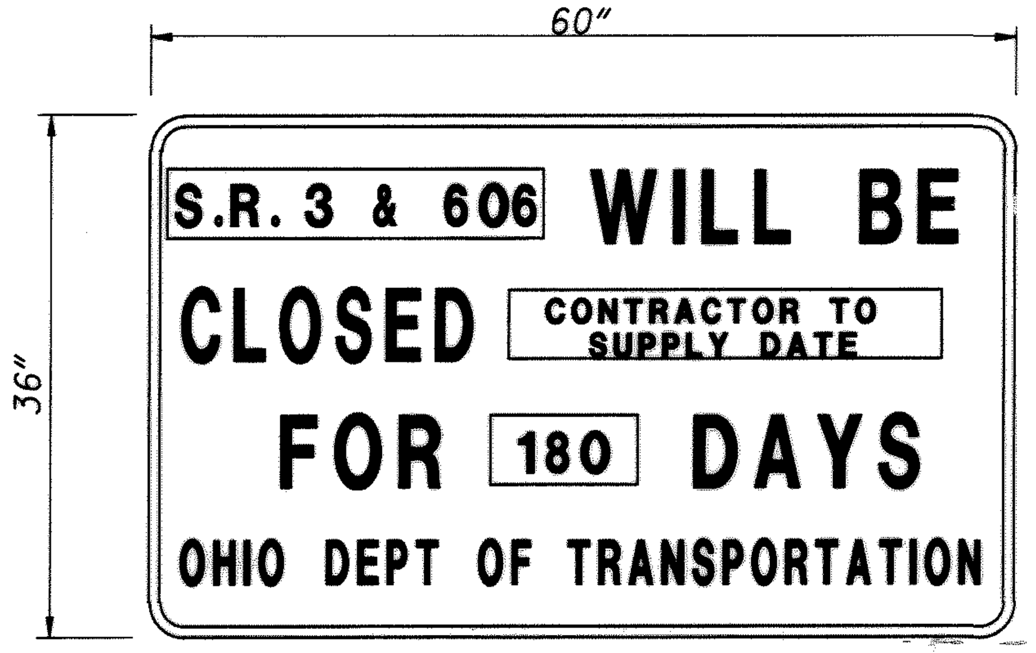
THE 180 CONSECUTIVE CALENDAR DAYS SHALL BE CONSIDERED AS AN ITEM COMPLETION DATE (SECTION 108) AND FOR EACH CALENDAR DAY BEYOND THE 180 CONSECUTIVE CALENDAR DAYS THAT THE ROADWAYS REMAIN CLOSED TO TRAFFIC, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES AS PER SECTION 108.07 OF THE CONSTRUCTION AND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

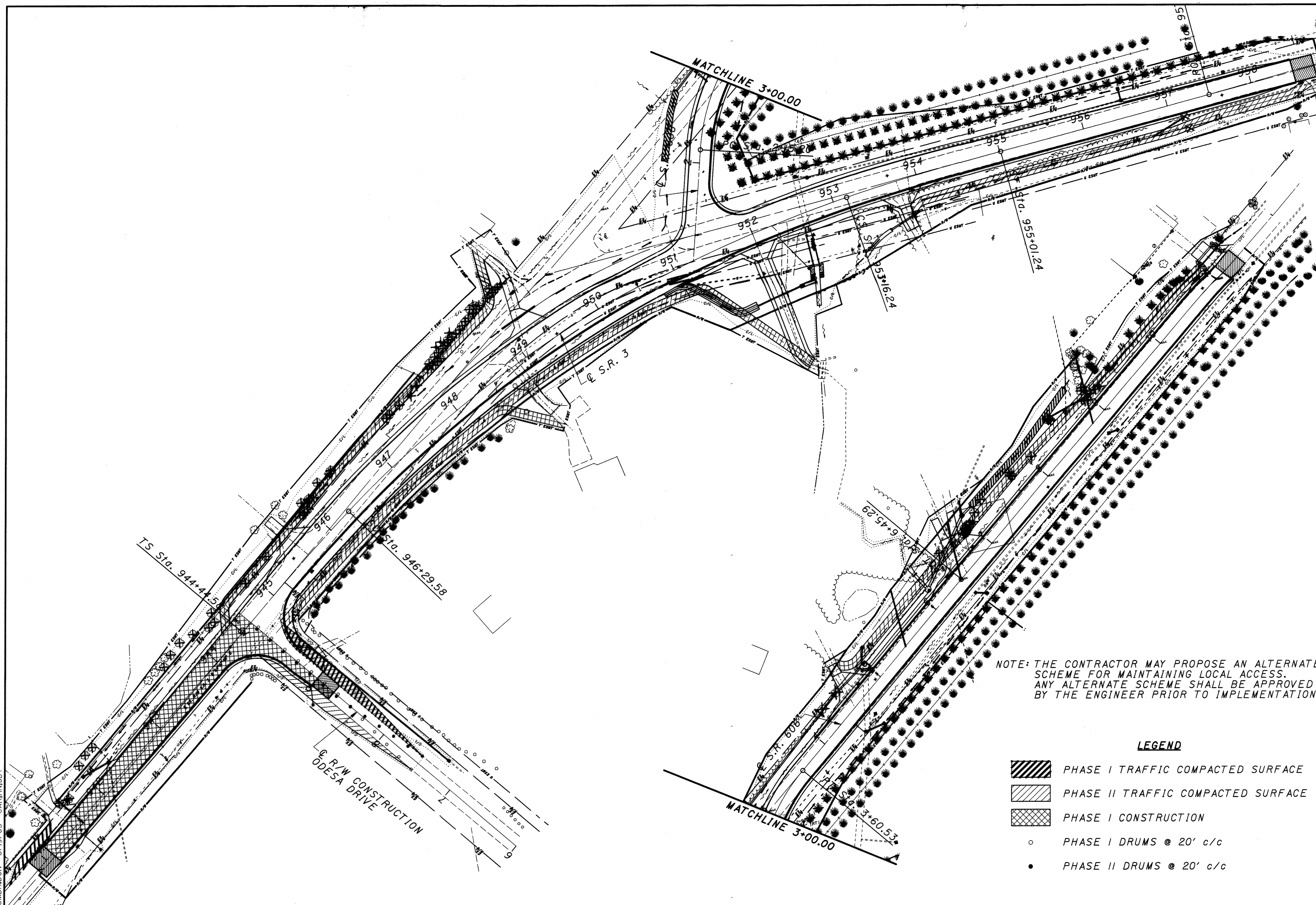
AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL COVER ALL PERMANENT SIGNING ON DETOUR ROUTES WHICH CONFLICTS WITH THE DETOUR SIGNING. THE PERMANENT SIGNS SHALL BE UNCOVERED WHEN THE DETOUR IS REMOVED.

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.



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

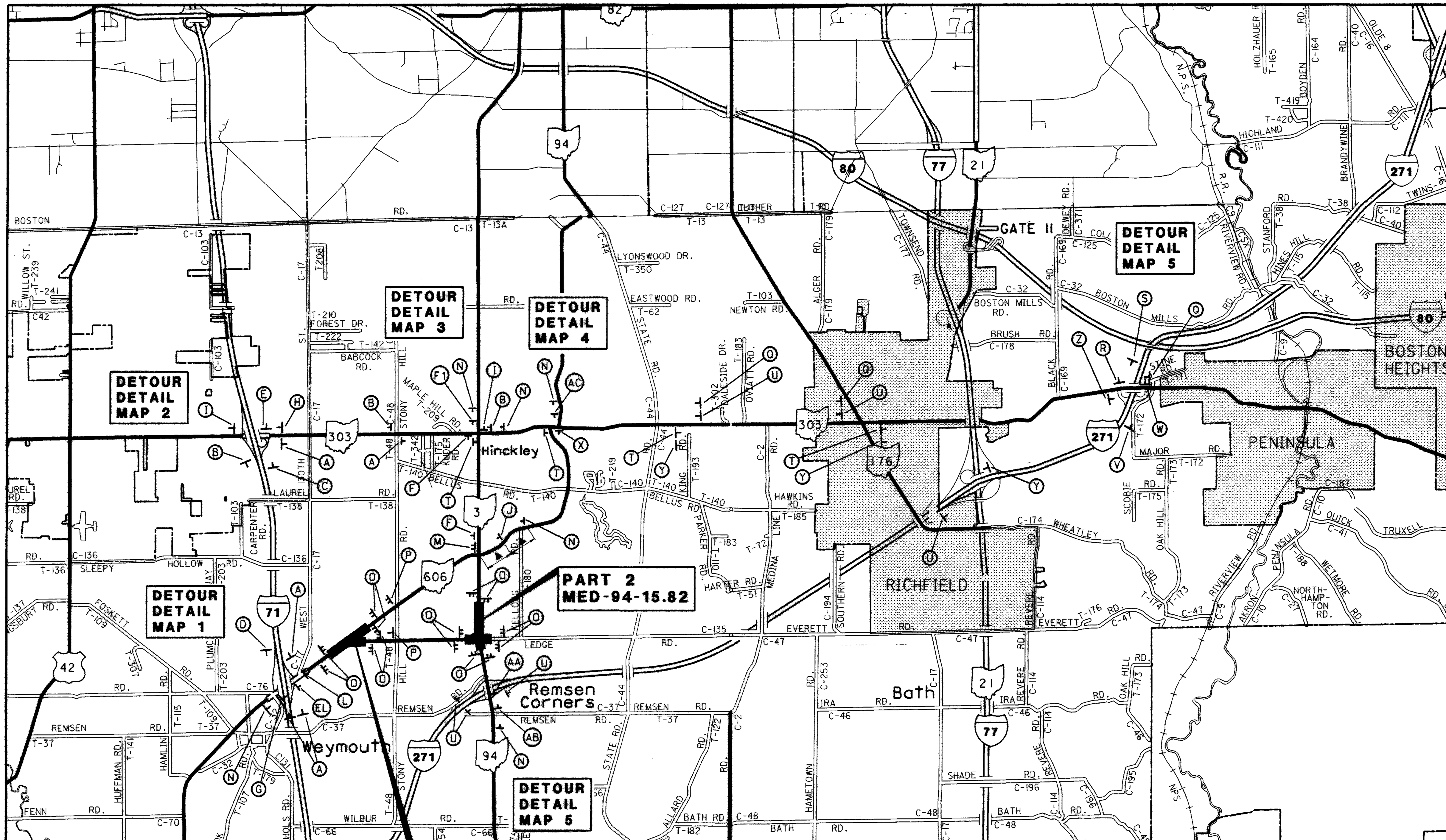
- PHASE I TRAFFIC COMPACTED SURFACE
- PHASE II TRAFFIC COMPACTED SURFACE
- PHASE I CONSTRUCTION
- ○ PHASE I DRUMS @ 20′ c/c
- • PHASE II DRUMS @ 20′ c/c

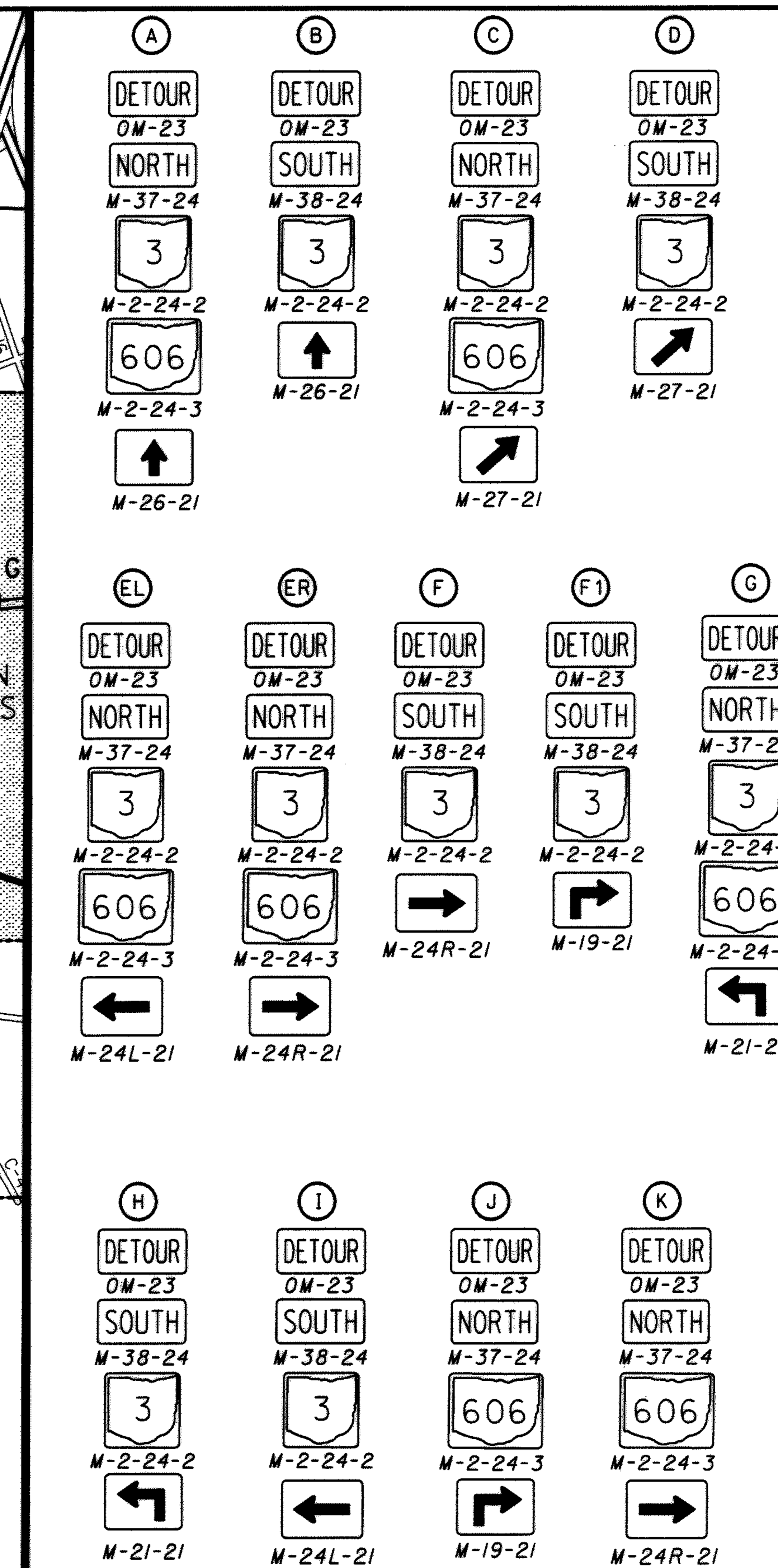
CALCULATED TM
CHECKED EEL

MAINTENANCE OF TRAFFIC SCHEMATIC

MED-3-17.82

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



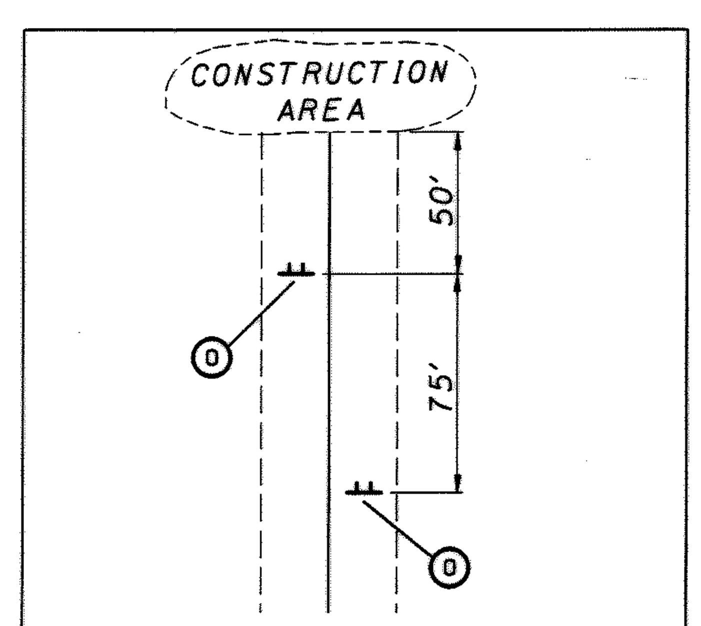


LEGEND

PORTION TO BE IMPROVED

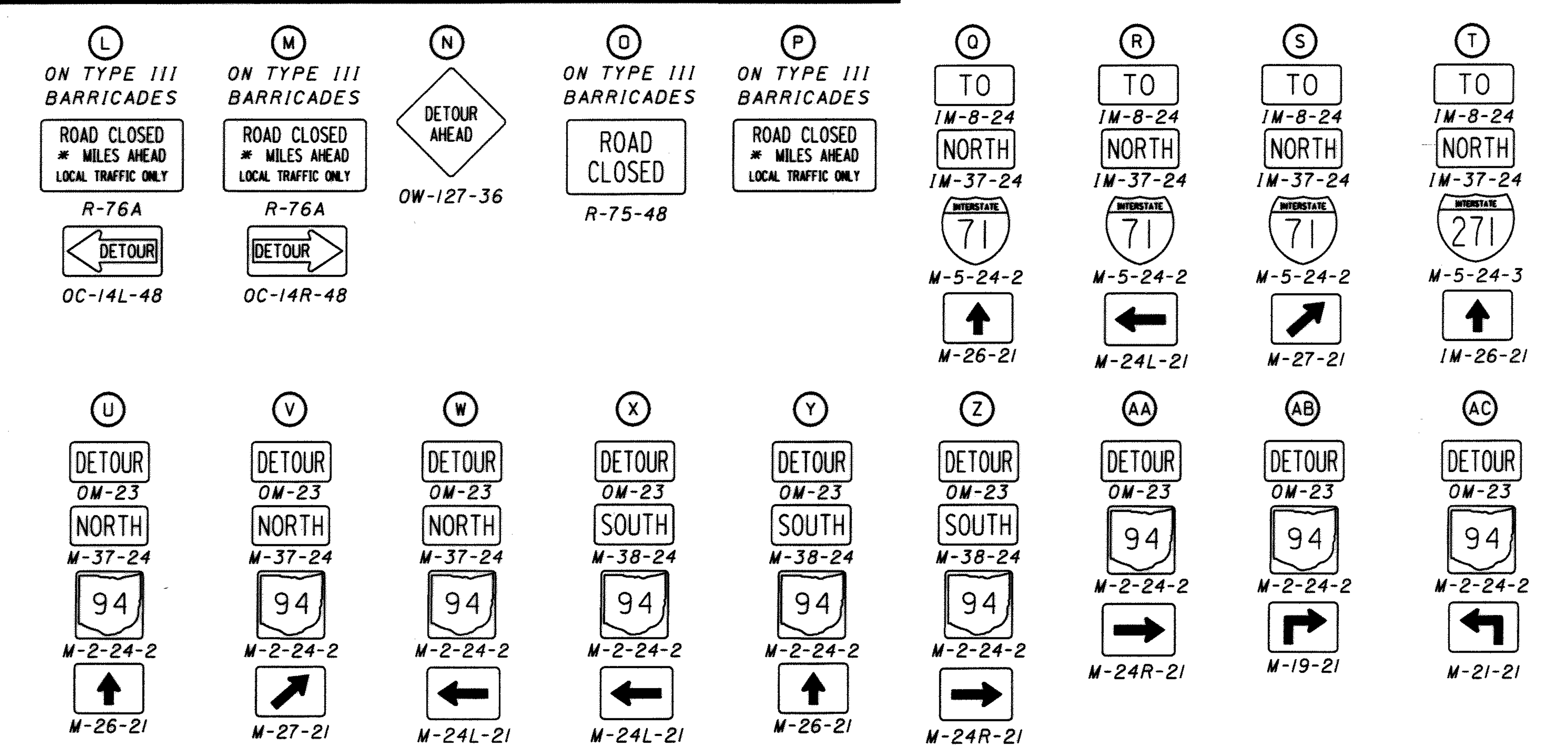
▲ 500'

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

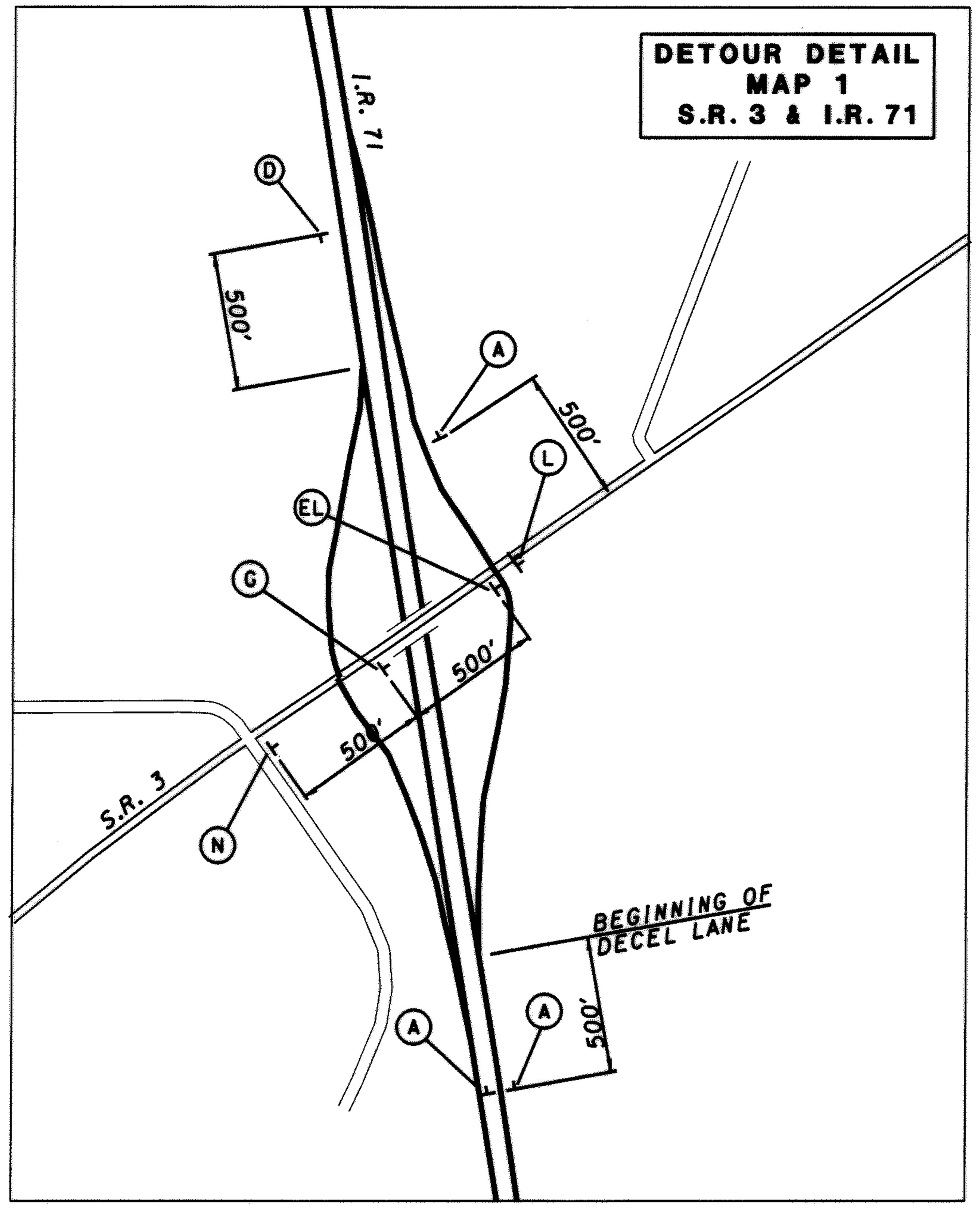
NOTE: THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND REMOVE THE SIGNING. PAYMENT FOR ALL MATERIAL, LABOR, AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

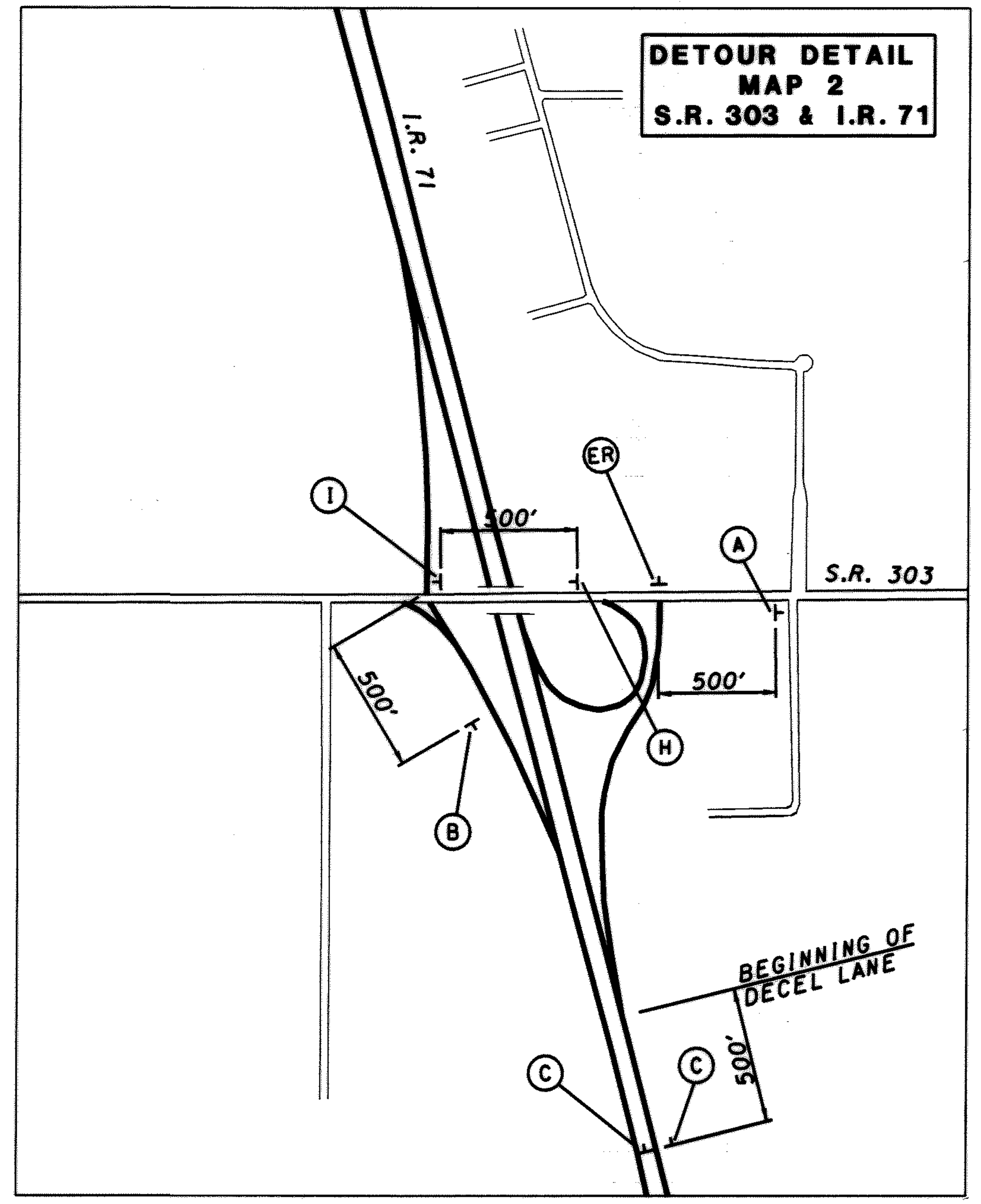


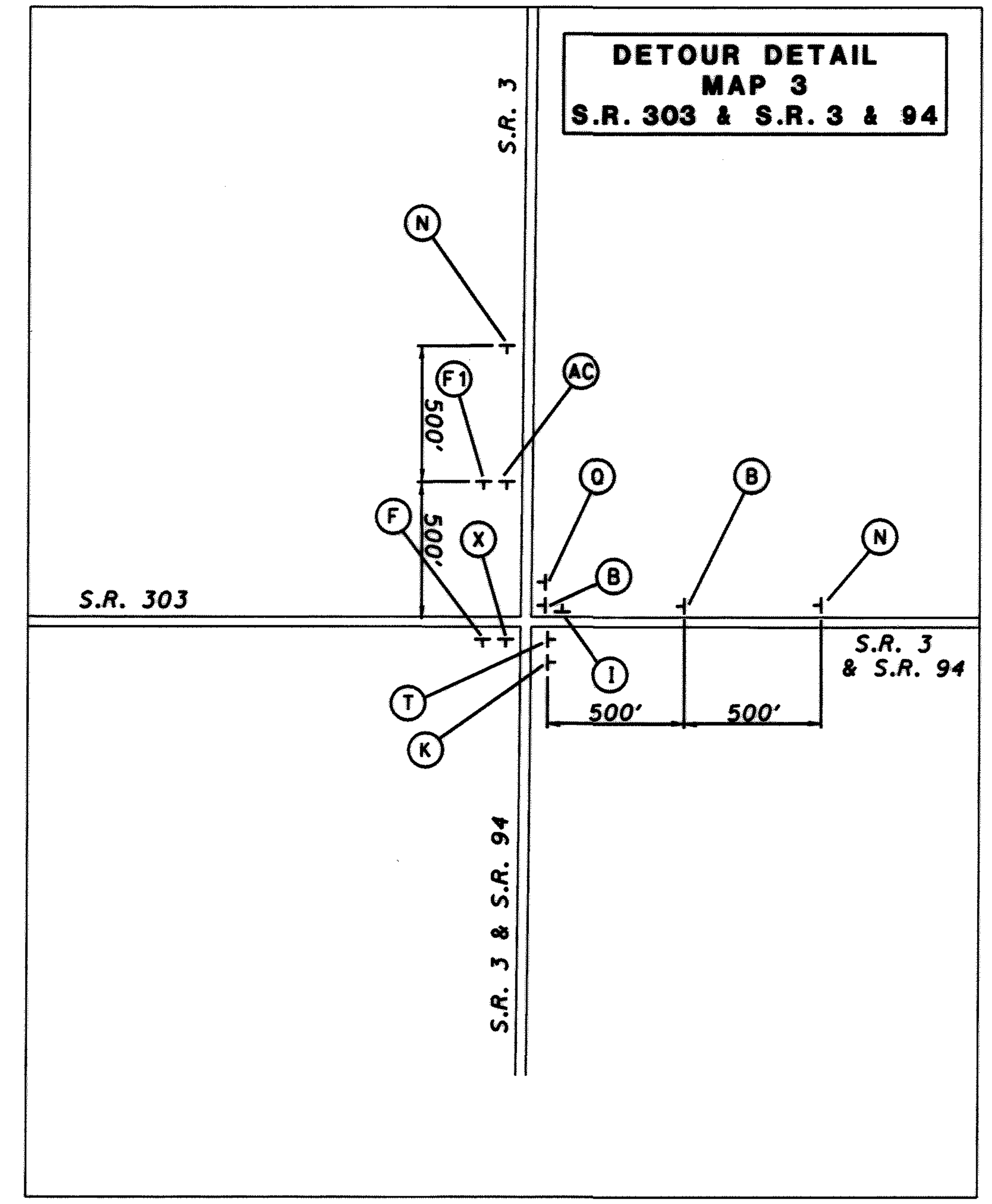
MAINTENANCE OF TRAFFIC DETOUR SIGNING PLAN

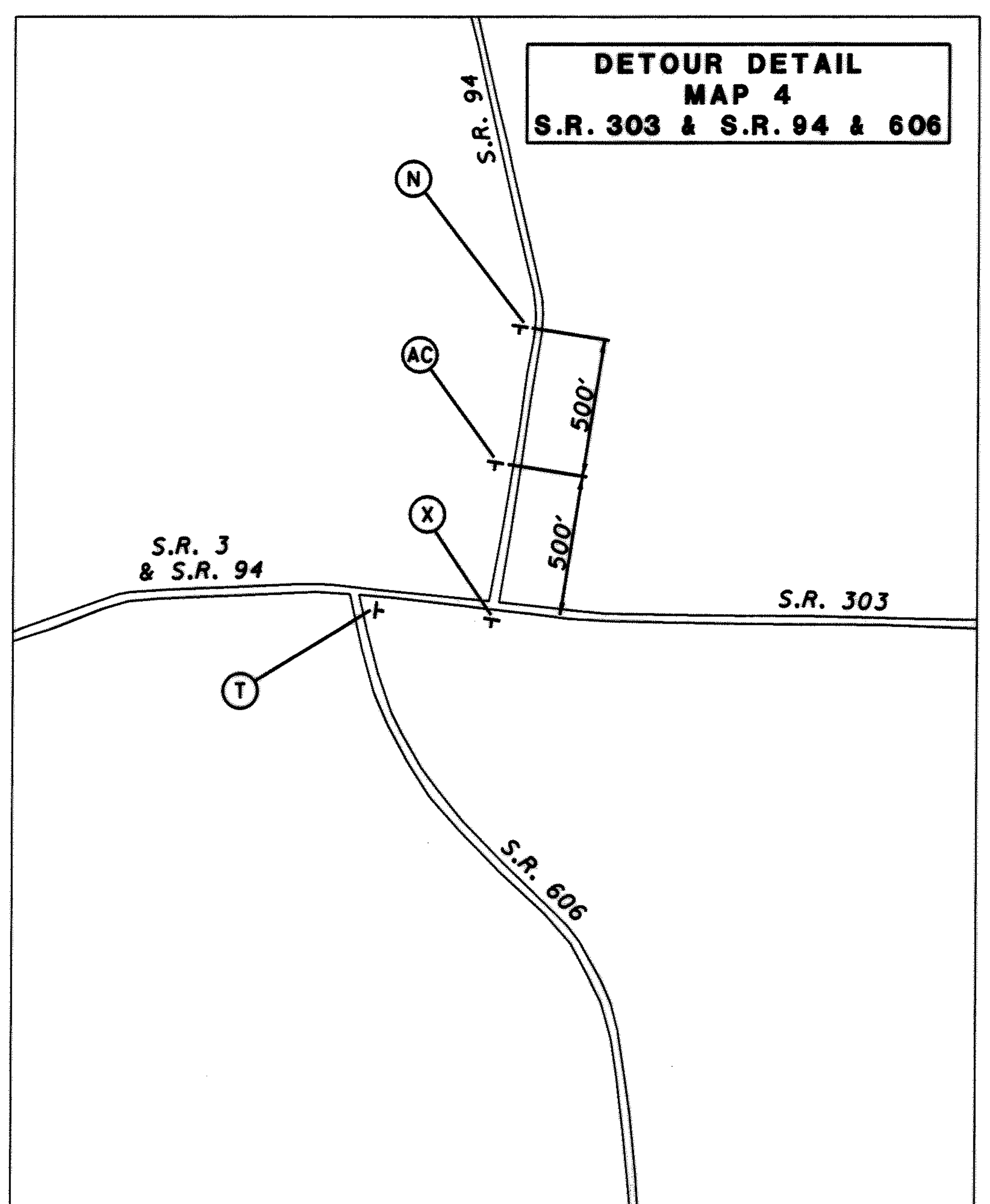
MED-3-17.82

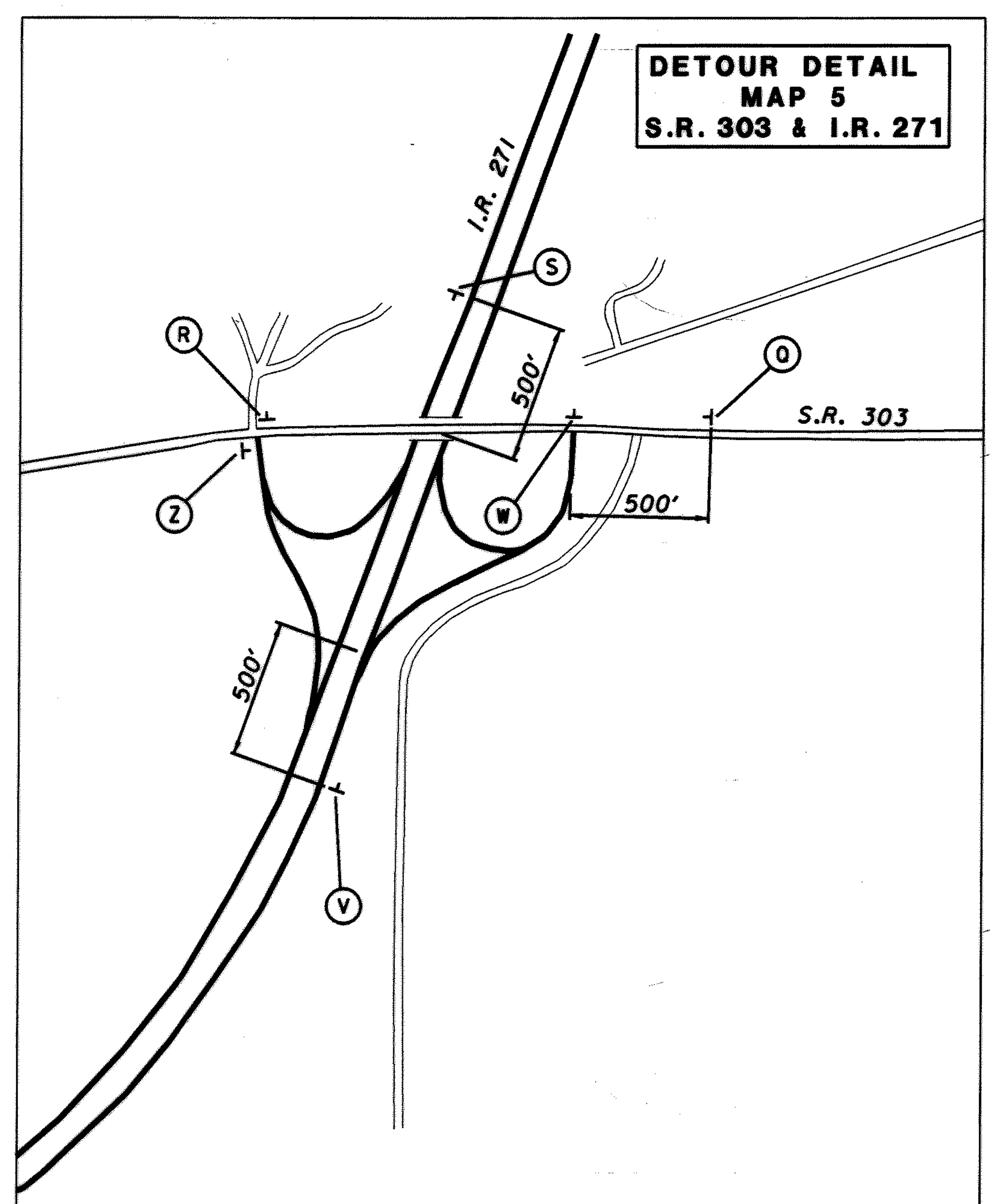
223MDI.DGN 6/14/02 TMJDY

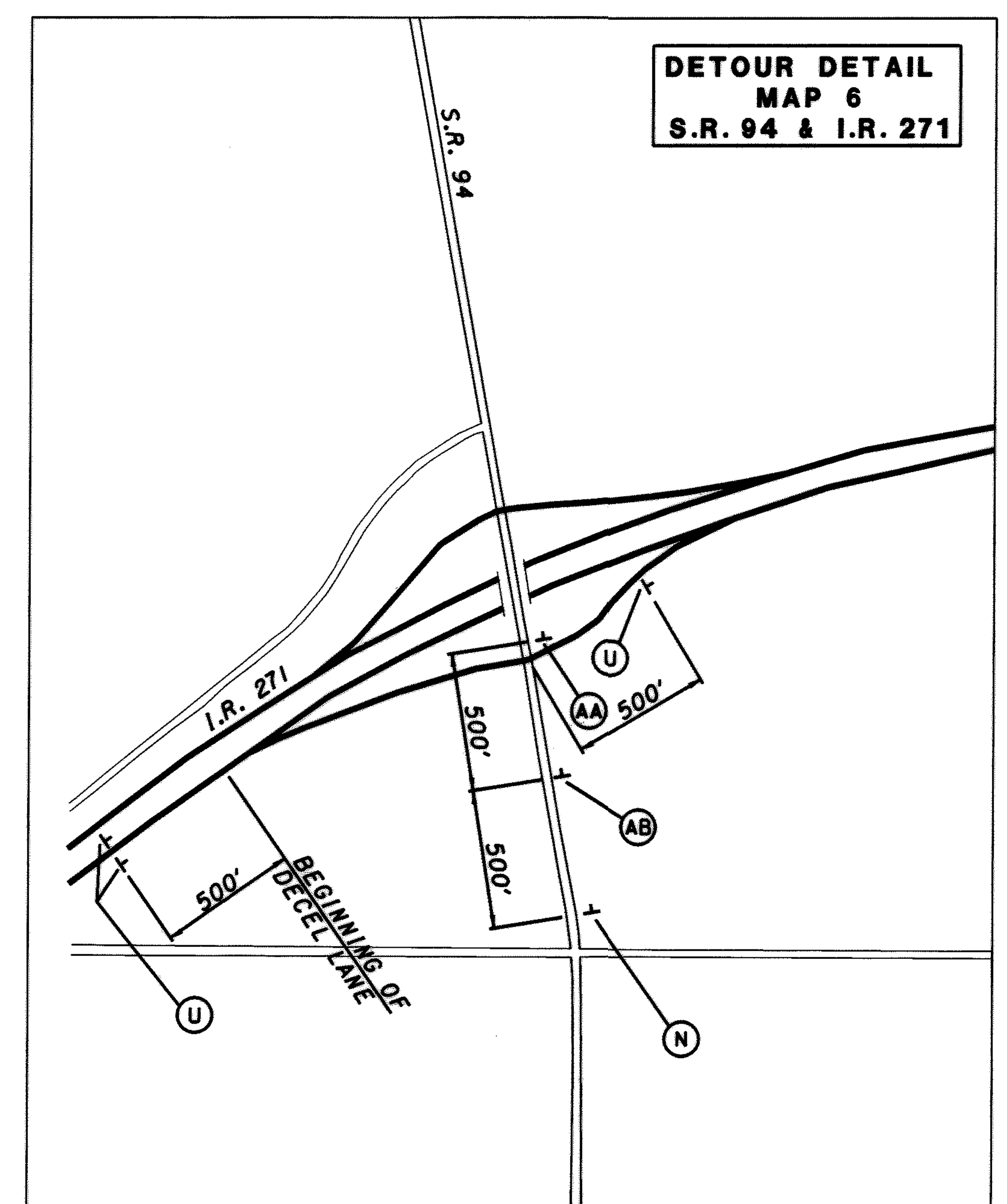












NOTE: *FOR SIGNING LEGEND SEE SHEET NO. 13A.*

N

0 250 500 1000
HORIZONTAL
SCALE IN FEET

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

6	10	17	20	21	22	23	24	38	40	41	42	51	52	ITEM	ITEM EXT.	PROJECT TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		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

11	55	56	ITEM	ITEM EXT.	PROJECT TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
							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 T M
CHECKED E E L

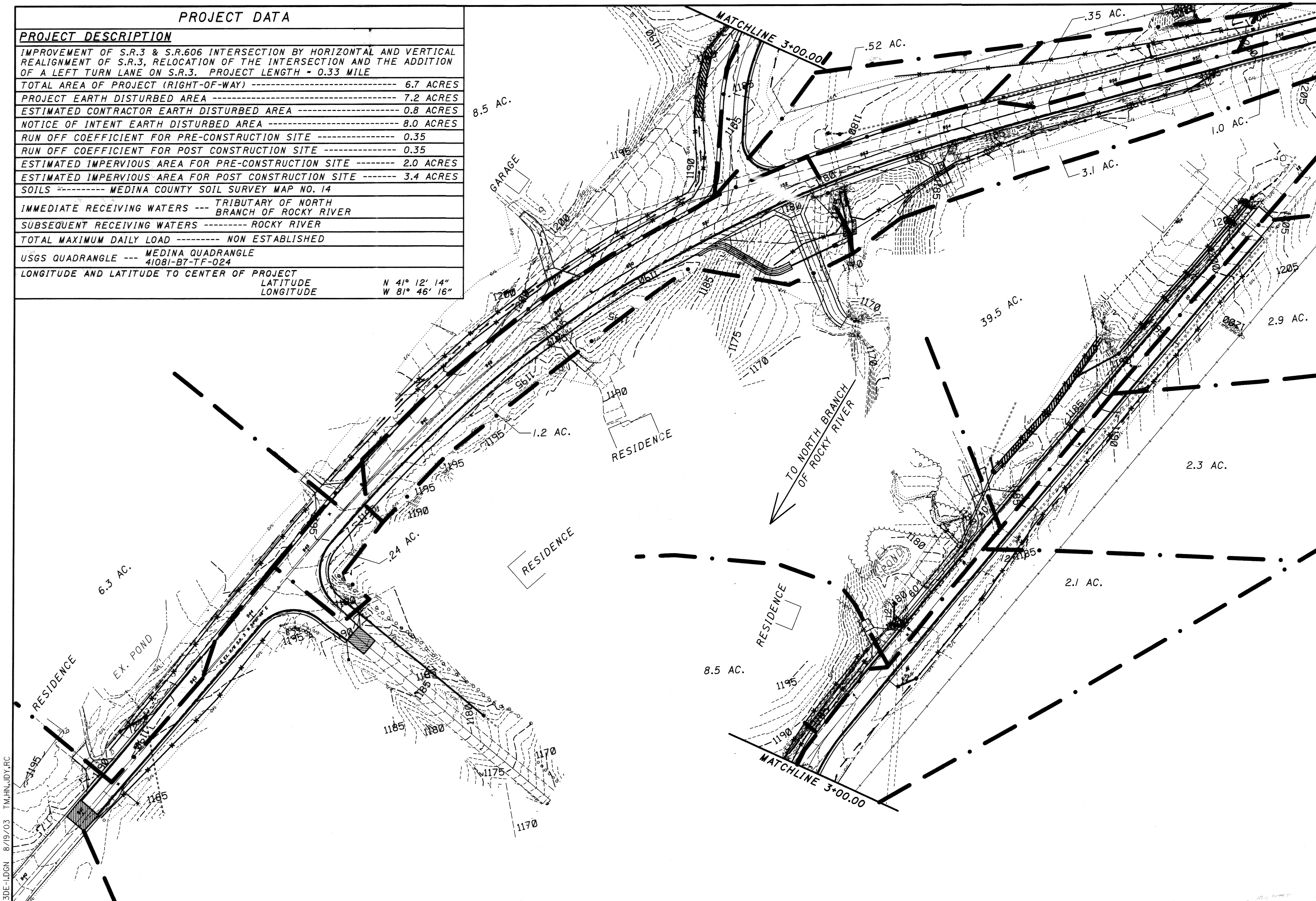
CALCULATIONS

MED-3-17.82

223GCB-I.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 41081-B7-TF-024
LONGITUDE AND LATITUDE TO CENTER OF PROJECT	LATITUDE N 41° 12′ 14″ LONGITUDE W 81° 46′ 16″



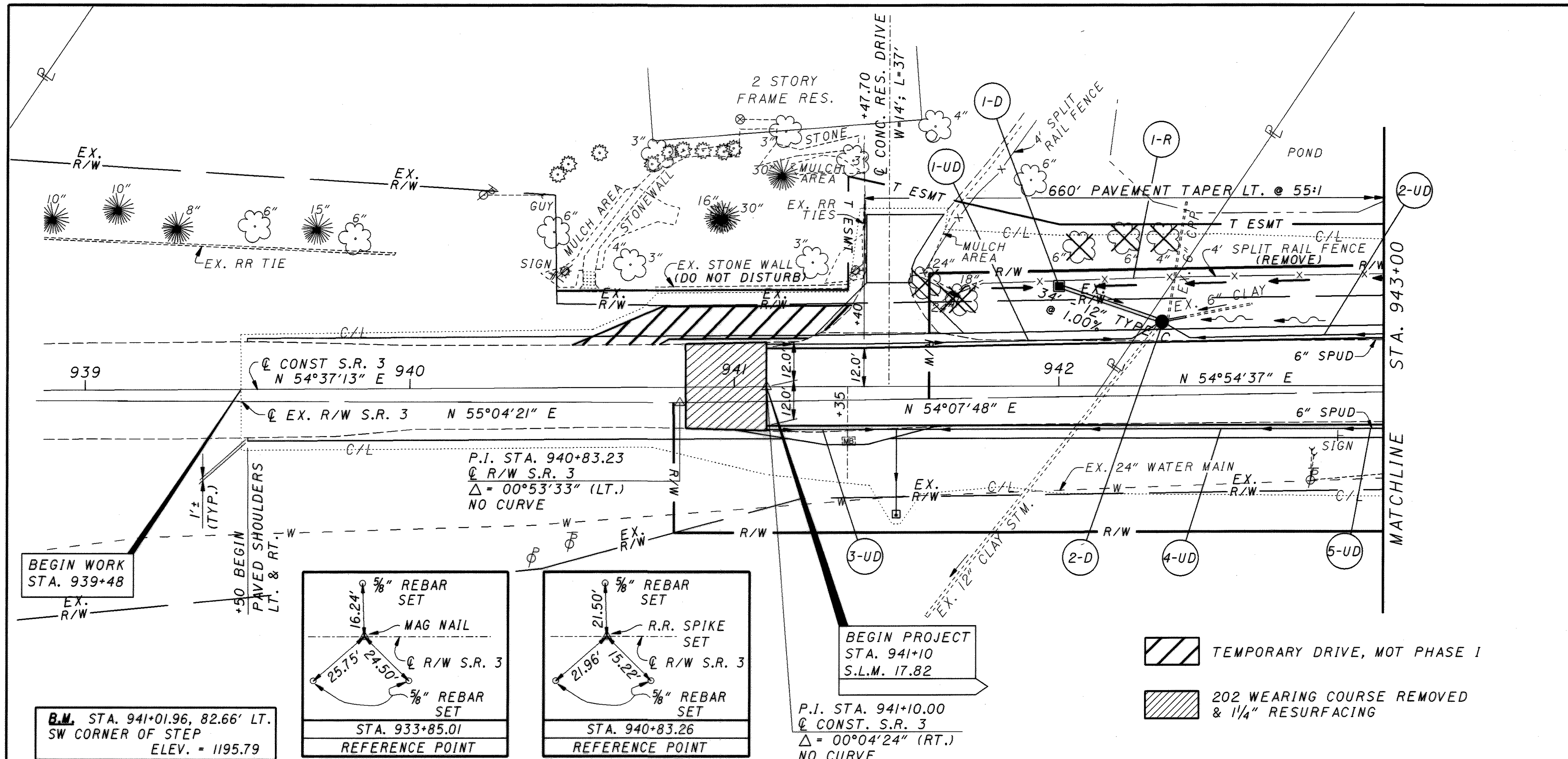
HORIZONTAL SCALE IN FEET 0 25 50 100

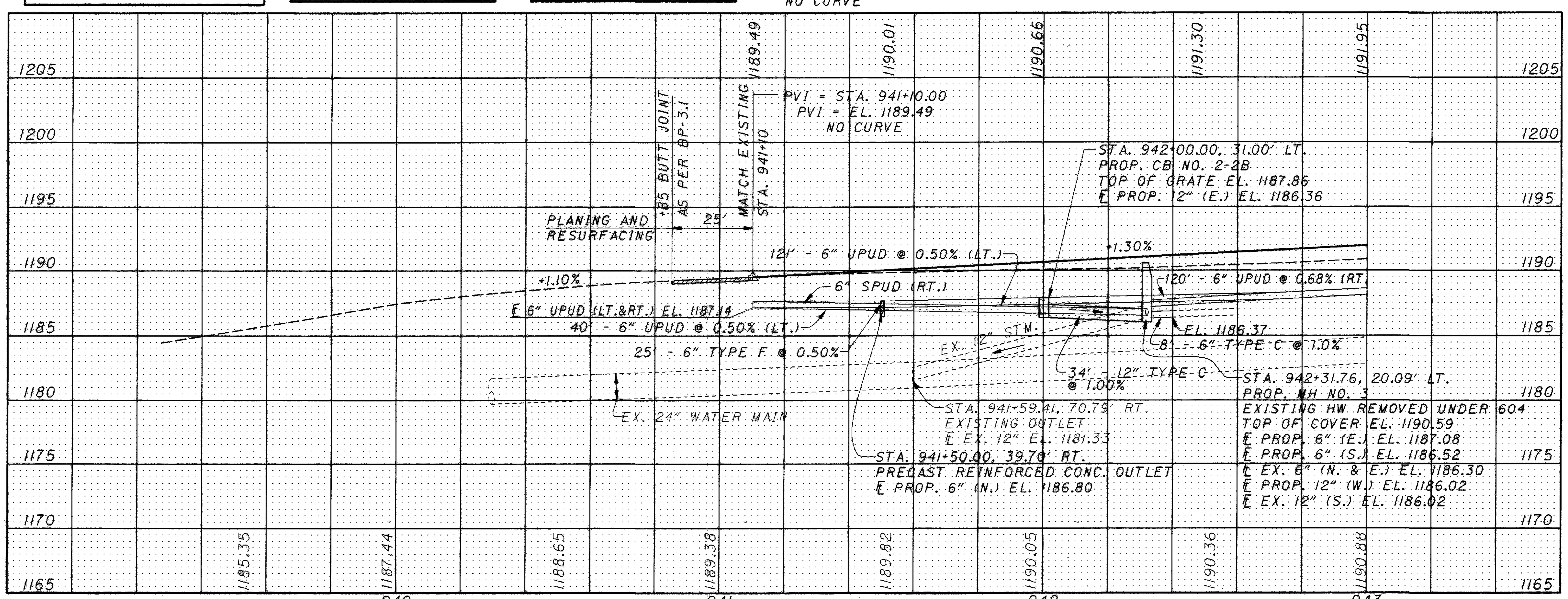
CALCULATED TM
CHECKED EEL

PROJECT SITE PLAN

MED-3-17.82

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





REF NO.	STATION FROM	STATION TO	SIDE	202 FENCE REMOVED (FOOT)	603 6" CONDUIT, TYPE C (FOOT)	603 6" CONDUIT, TYPE F (FOOT)	603 12" CONDUIT, TYPE C (FOOT)	604 CATCH BASIN, NO. 2-2B (EACH)	604 MANHOLE, NO. 3 (EACH)	604 PRECAST REINFORCED CONCRETE OUTLET (EACH)	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)	605 6" UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)	BENDS 6" x 45° BEND (EACH)	BENDS 6" TEE (EACH)
1-D	942+00.00		LT.				34	1						
2-D	942+31.76		LT.		8		4		1					
1-UD	941+10.00	942+31.76	LT.			10						112	1	
2-UD	942+31.76	943+00.00	LT.			10					59		1	
3-UD	941+10.00	941+50.00	RT.									40		
4-UD	941+50.00	942+70.00	RT.			28				1		120		1
5-UD	942+70.00	943+00.00	RT.								30			
1-R	941+59.00	943+00.00		141										
TOTALS CARRIED TO GENERAL SUMMARY				141	8	48	38	1	1	1	89	272		

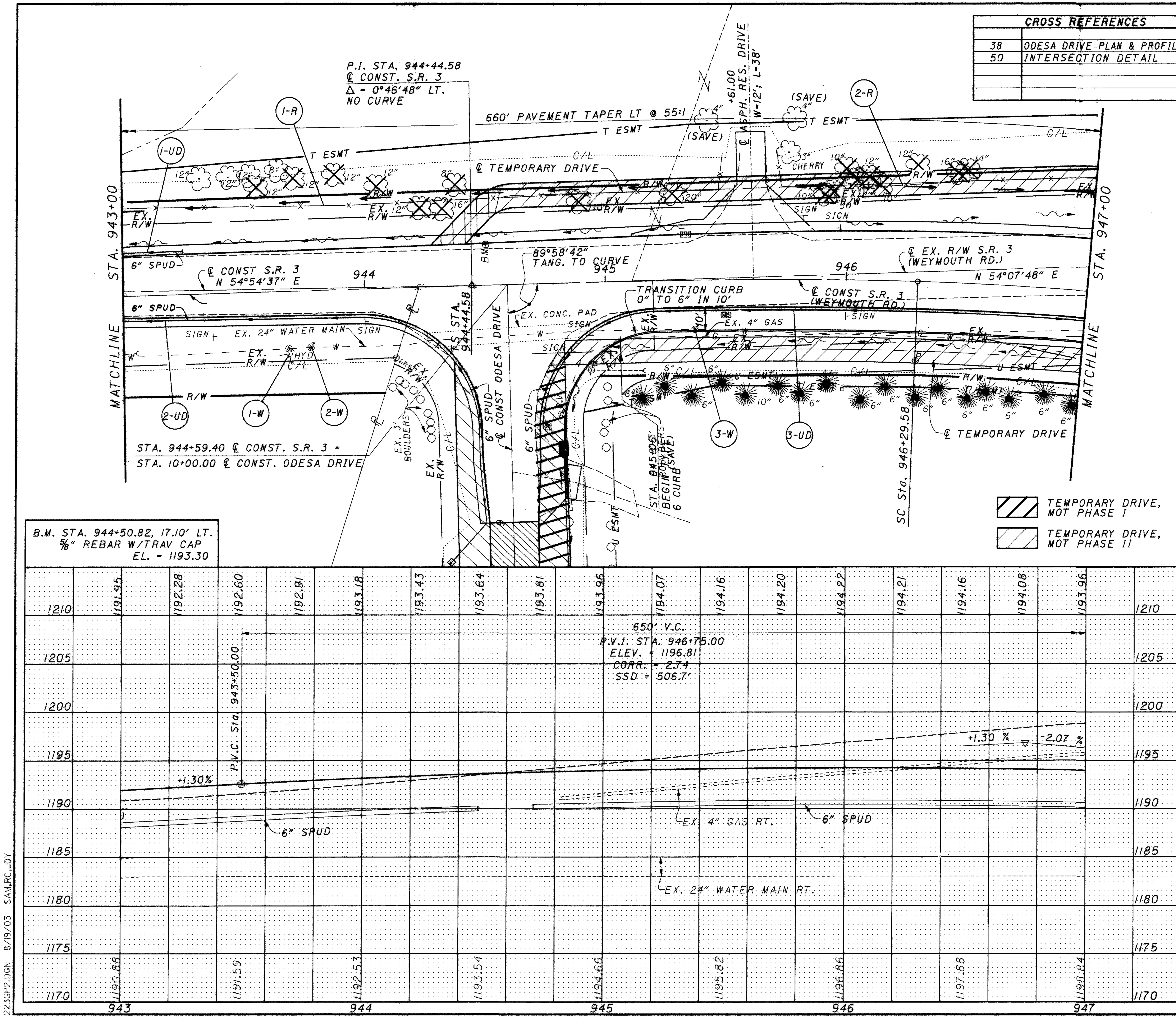
HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TM
CHECKED EEL

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

MED-3-17.82

223GP1.DGN 08/22/02 RC,JDY



CROSS REFERENCES	
38	ODESA DRIVE PLAN & PROFILE
50	INTERSECTION DETAIL

REF NO.	STATION FROM	STATION TO	SIDE	202 FENCE REMOVED (FOOT)	605 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)	638 FIRE HYDRANT ADJUSTED TO GRADE (EACH)	638 VALVE BOX ADJUSTED TO GRADE (EACH)
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.	127			
1-W	943+68.50		RT.			1	1
2-W	943+77.50		RT.				1
3-W	945+37.00		RT.				1
TOTALS CARRIED TO GENERAL SUMMARY				377	360	1	3

HORIZONTAL SCALE IN FEET: 0 10 20 40

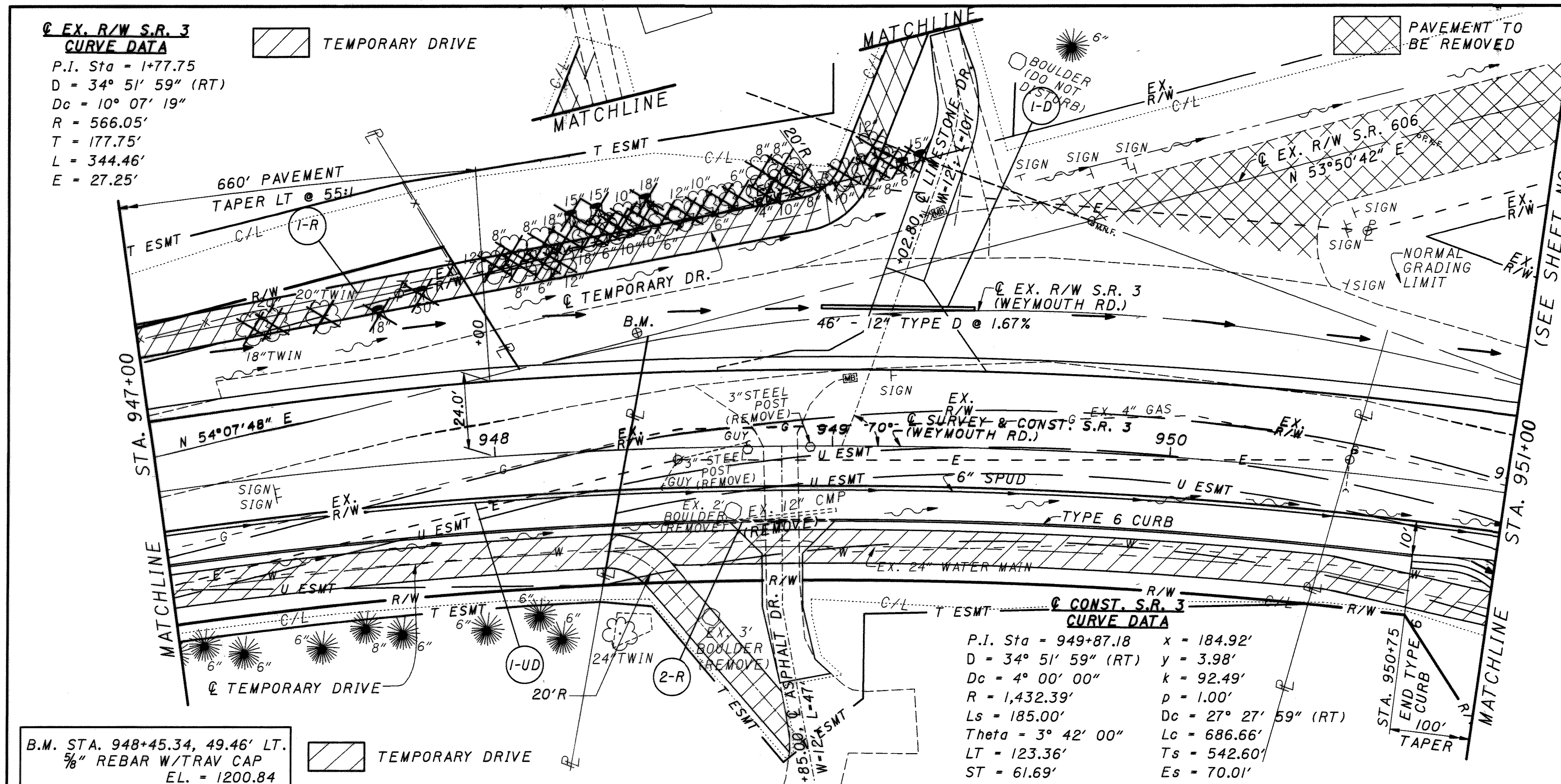
CALCULATED TM

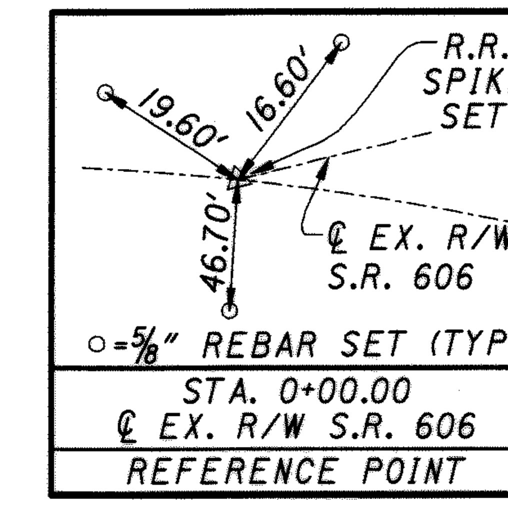
CHECKED EEL

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

MED-3-17.82

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





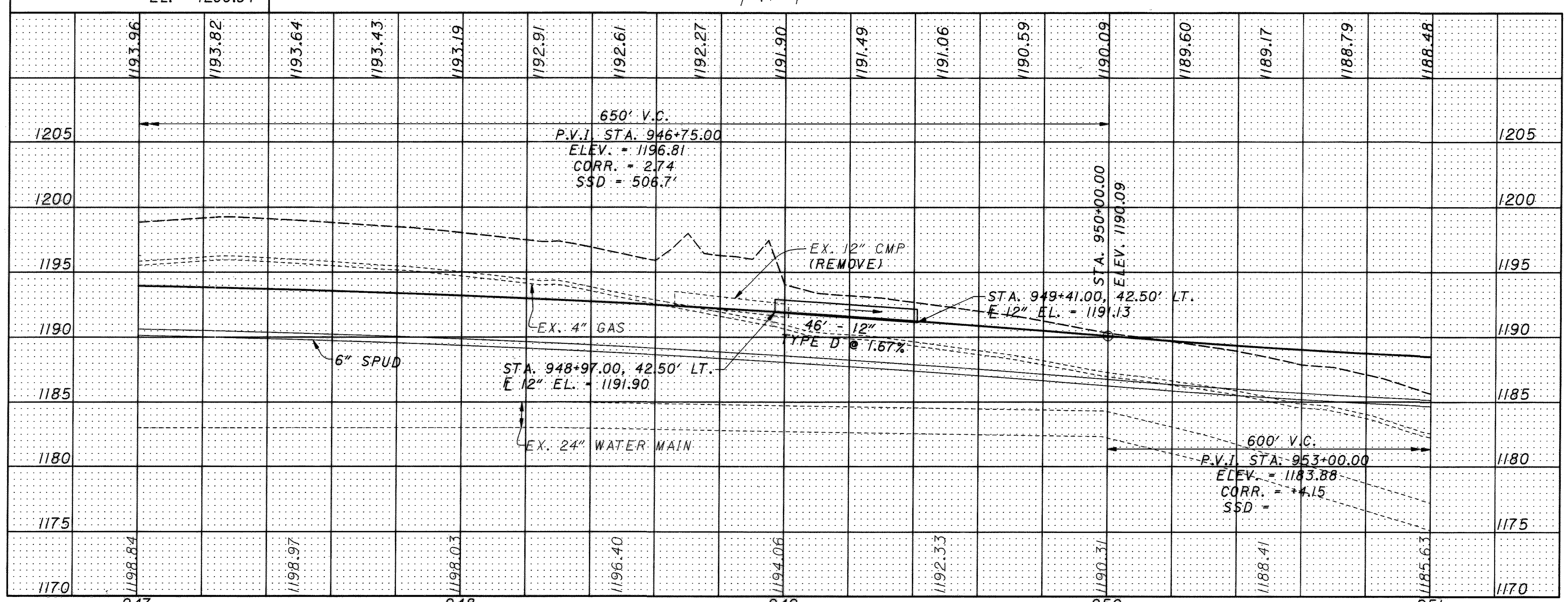
ITEM 203 - EXCAVATION
376.0 x 9″ / 36 = 94.0 CU. YD.
USE 94 CU.YD.

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	202 PIPE REMOVED 24″ AND UNDER (FOOT)	202 FENCE REMOVED (FOOT)	603 12″ CONDUIT, TYPE D (FOOT)	605 6″ SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)
1-D	948+97.00	949+41.00	LT.			46	
1-UD	947+00.00	951+00.00	RT.				400
1-R	947+00.00	947+93.00	LT.		93		
2-R	948+65.41	949+01.21	RT.	36			
TOTALS CARRIED TO GENERAL SUMMARY				36	93	46	400

HORIZONTAL SCALE IN FEET 0 10 20 40

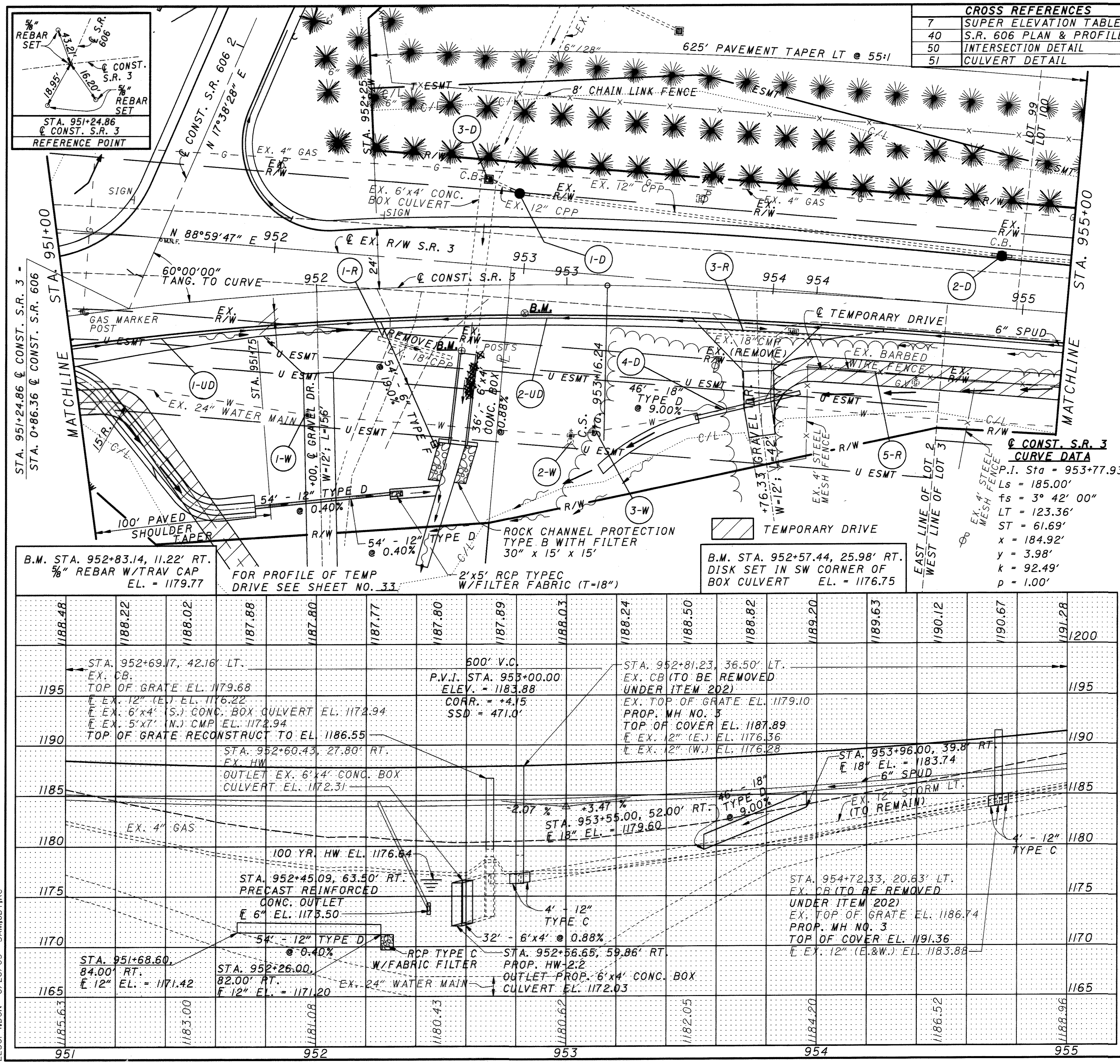
CALCULATED TM CHECKED EEL

PLAN AND PROFILE
S.R. 3 STA. 947+00 TO STA. 951+00

MED-3-17.82

223GP3.DGN 8/19/03 SAM,JDY

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



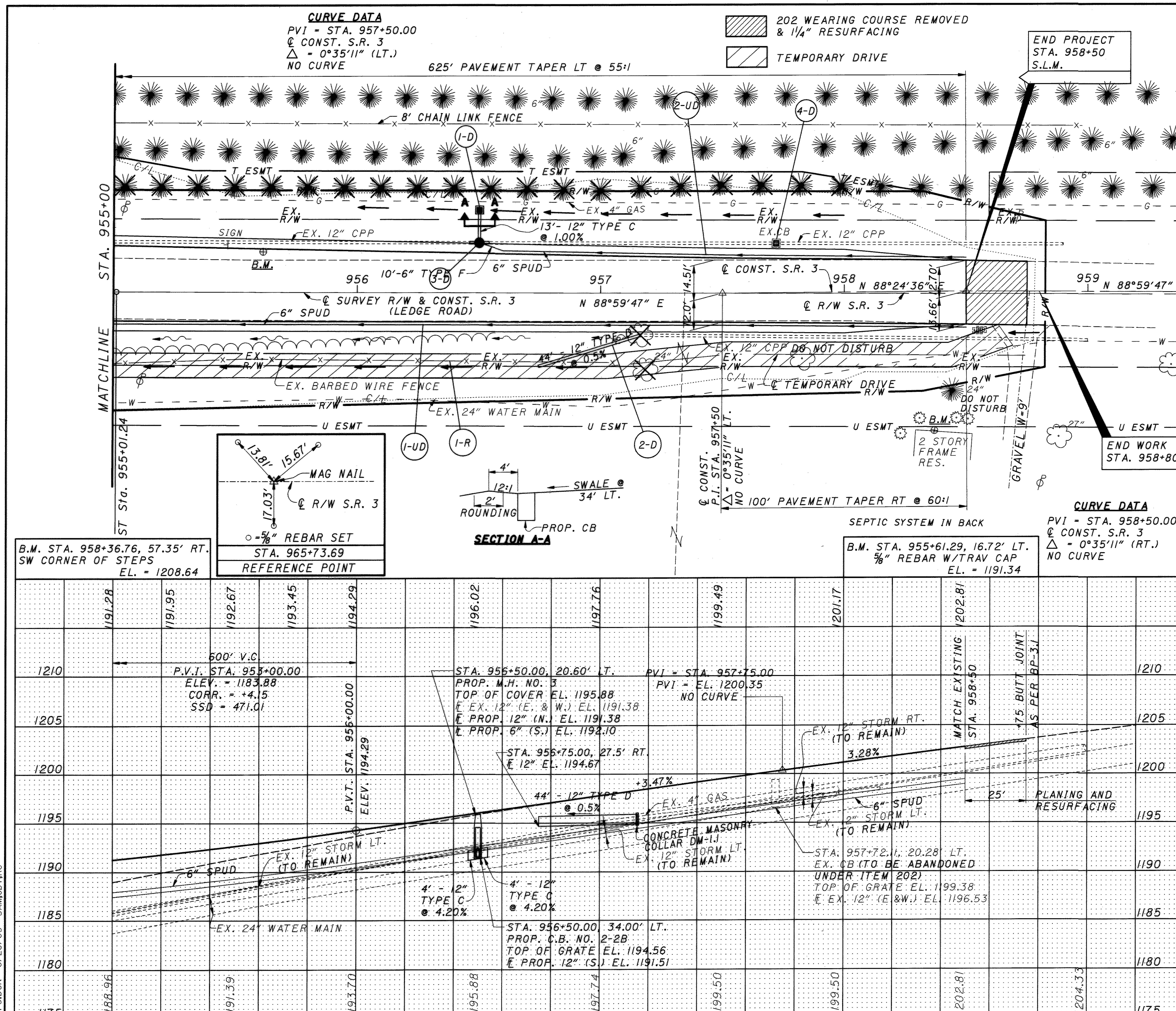
REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" AND UNDER (FOOT)	202 CATCH BASIN REMOVED (EACH)	202 FENCE REMOVED (FOOT)	603 6" CONDUIT, TYPE F (FOOT)	603 12" CONDUIT, TYPE C (FOOT)	603 18" CONDUIT, TYPE D (FOOT)	604 MANHOLE, NO. 3 (EACH)	604 CATCH BASIN RECONSTRUCTED TO GRADE (EACH)	604 PRECAST 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.	8	1			8		1						
2-D	954+72.33		LT.	8	1			8		1						
3-D	952+69.17		LT.								1					
4-D	953+55.00	953+96.00	RT.						46							
1-UD	951+00.00	952+25.00	RT.				54					1	125			1
2-UD	952+25.00	955+00.00	RT.										275			
1-R	952+23.72	952+53.28	RT.	30												
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-W	951+93.00		RT.												1	
2-W	953+02.50		RT.											1	1	
3-W	953+12.00		RT.												1	
TOTALS CARRIED TO GENERAL SUMMARY				92	2	164	54	16	46	2	1	1	400	1	3	

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



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

N

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TM

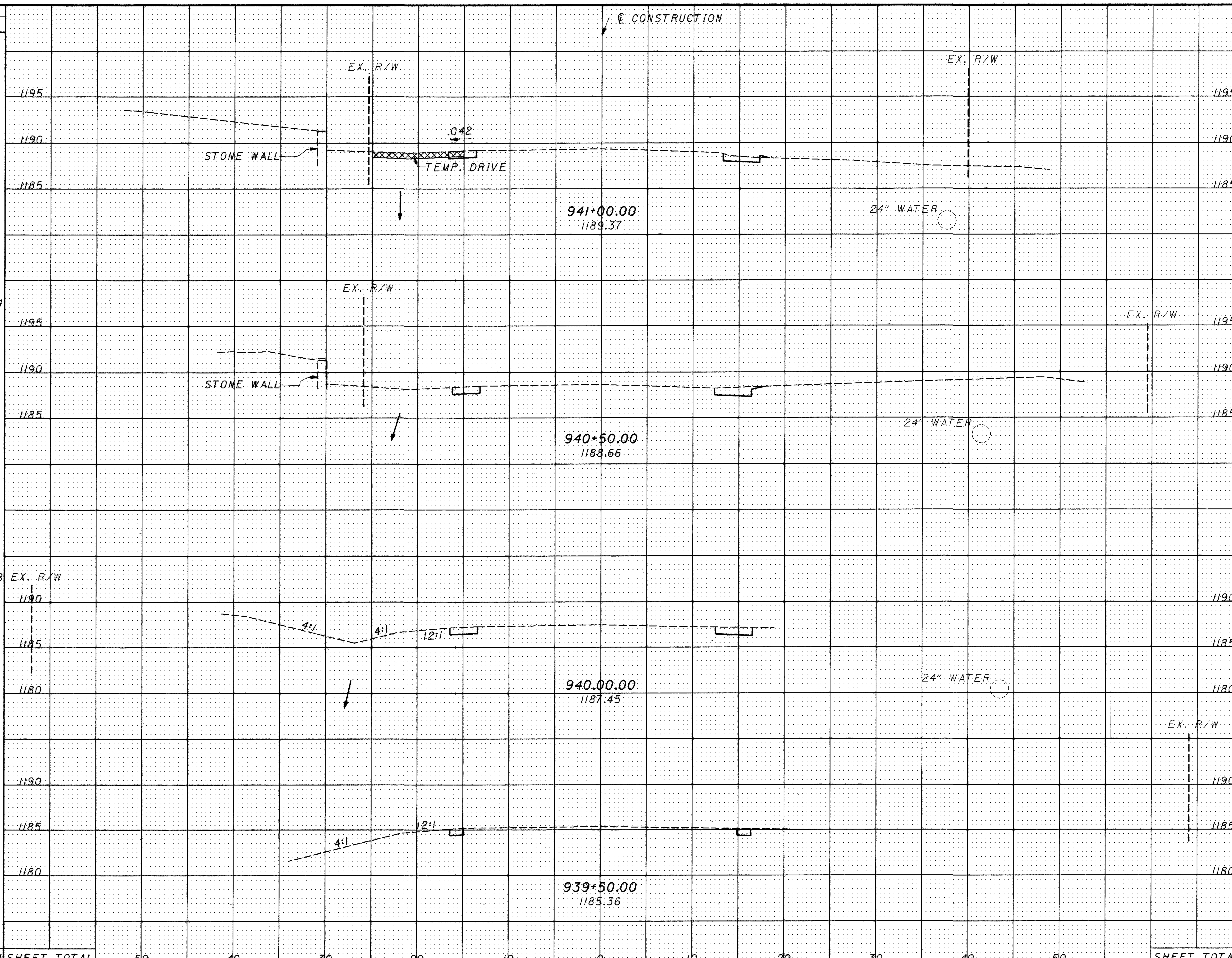
CHECKED EEL

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 / SQ. YDS.): 6.4, 46.4, 10.3, 32.8, 1.5, 4.2, 0 — SHEET TOTAL 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		
		38	0

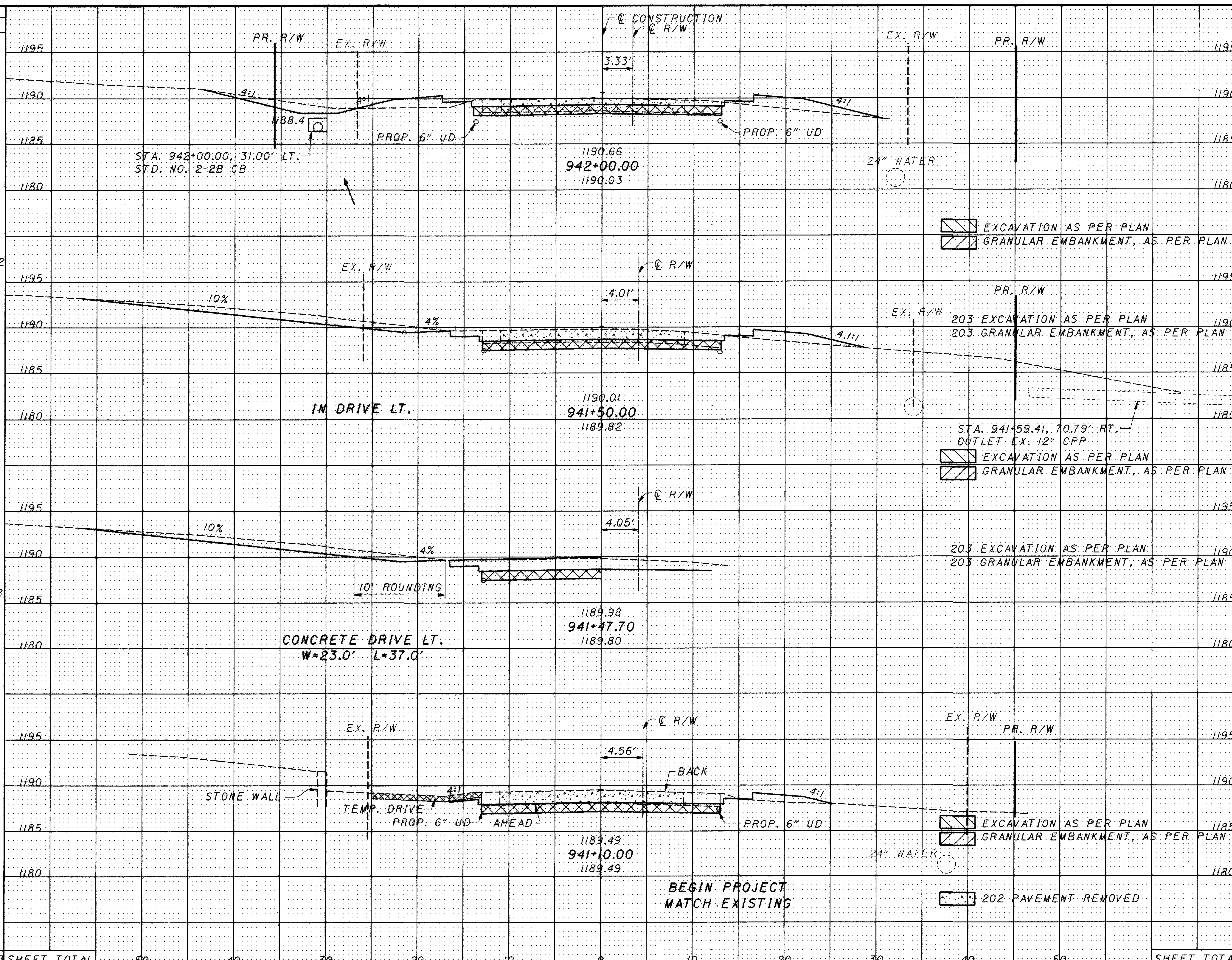
CALCULATED TW
CHECKED EEL

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

MED-3-17.82

25/66

223GXS.DGN 08/21/02 HN,JDY,RC



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

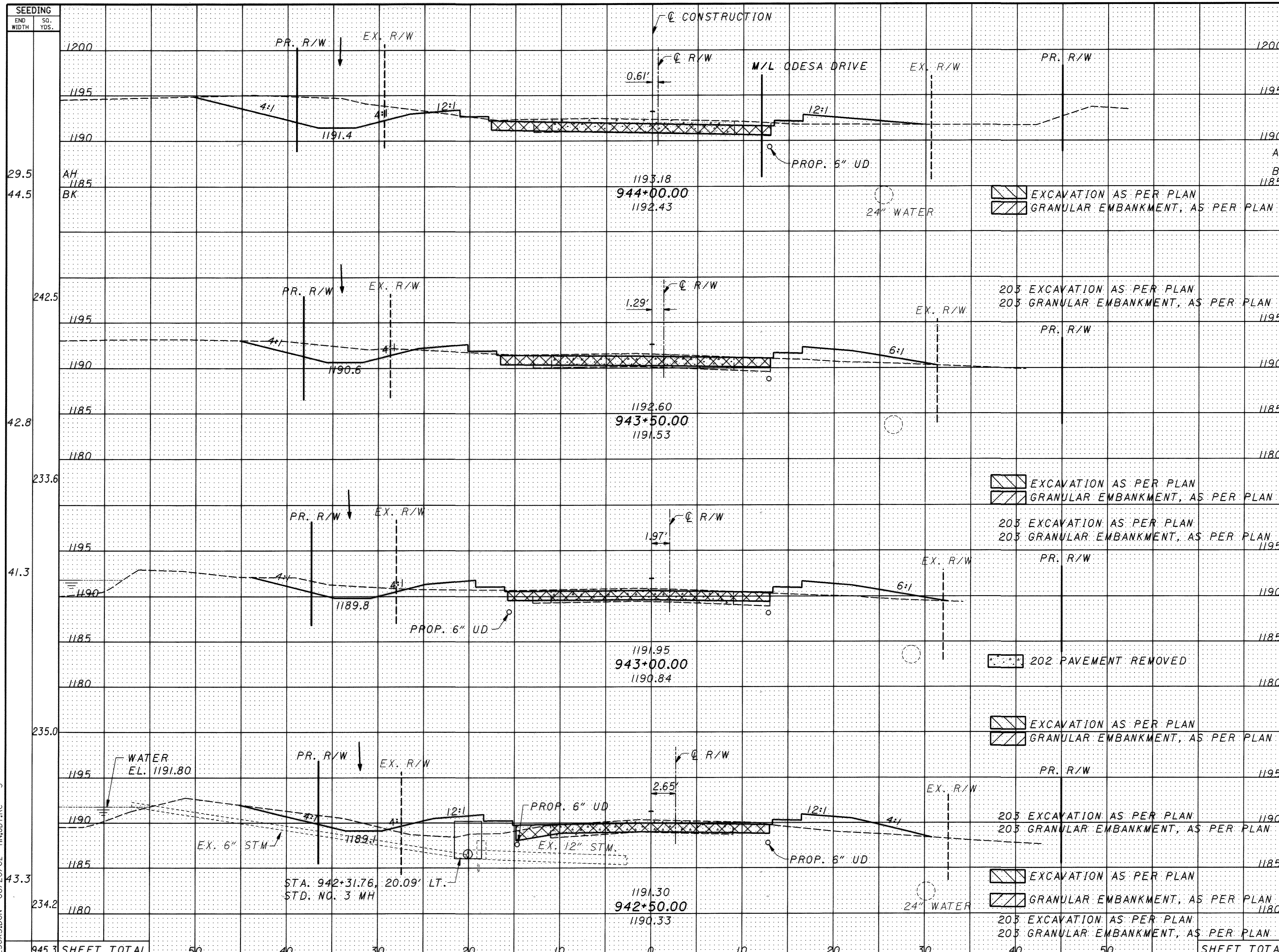
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
28.3	21.7		
26.3	26.3		
		118	29
		50	50
99.3	9.5		
26.1	26.1		
		102	11
		49	49
38.3	5.3		
26.1	26.1		
		42	5
		262	45

CALCULATED TW
CHECKED EEL

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

MED-3-17.82

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



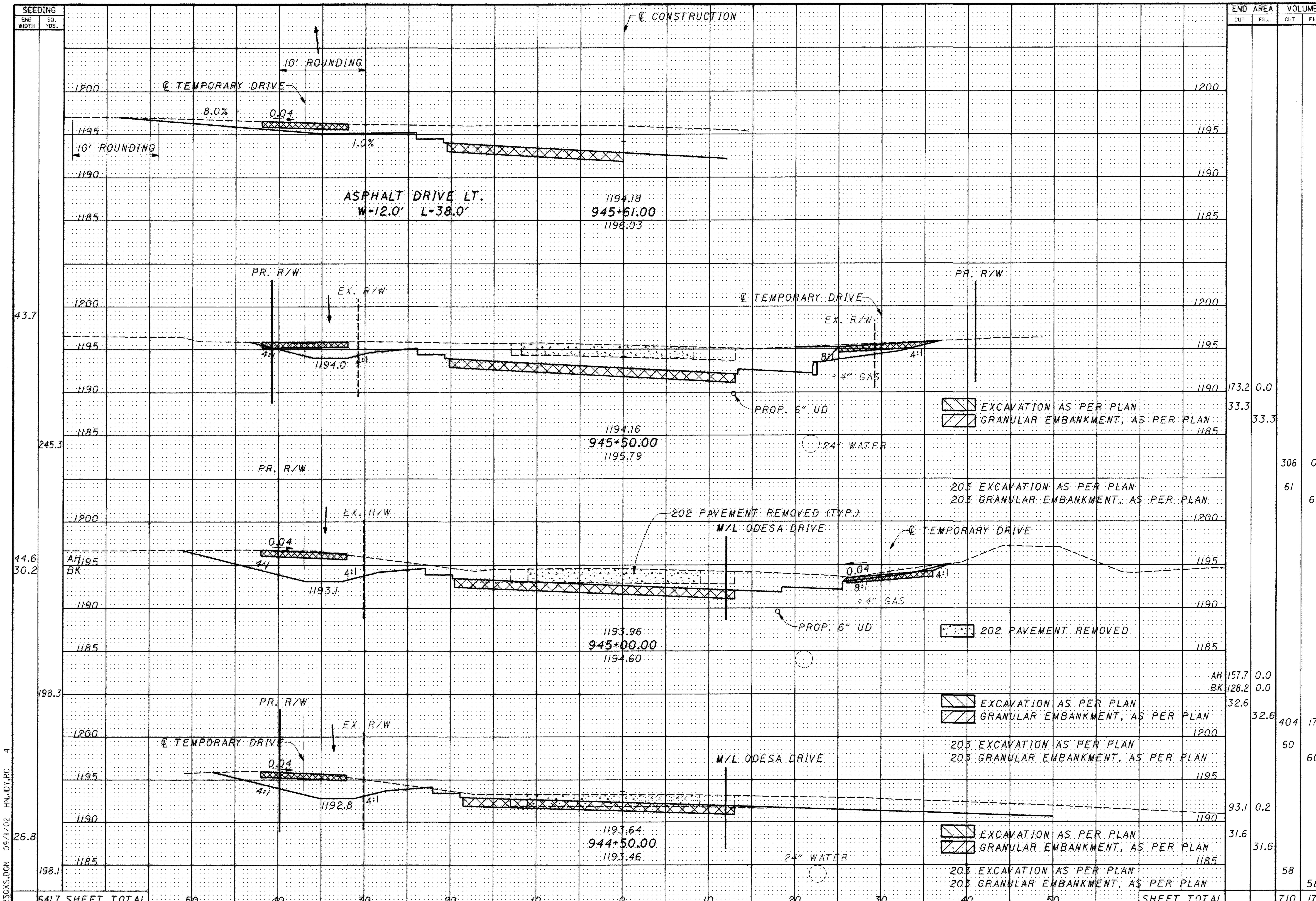
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
AH 59.8	2.0		
BK 60.2	9.3		
30.7			
	30.7		
		79	26
		56	
			56
24.9	18.8		
29.6			
	29.6		
		41	39
		54	
			54
19.6	23.1		
28.9			
	28.9		
		34	60
		53	
			54
17.4	41.0		
27.7			
	29.3		
		42	59
		51	
			53
		196	184

CALCULATED TM
CHECKED EEL

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

MED-3-17.82

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



CALCULATED TM
CHECKED EEL

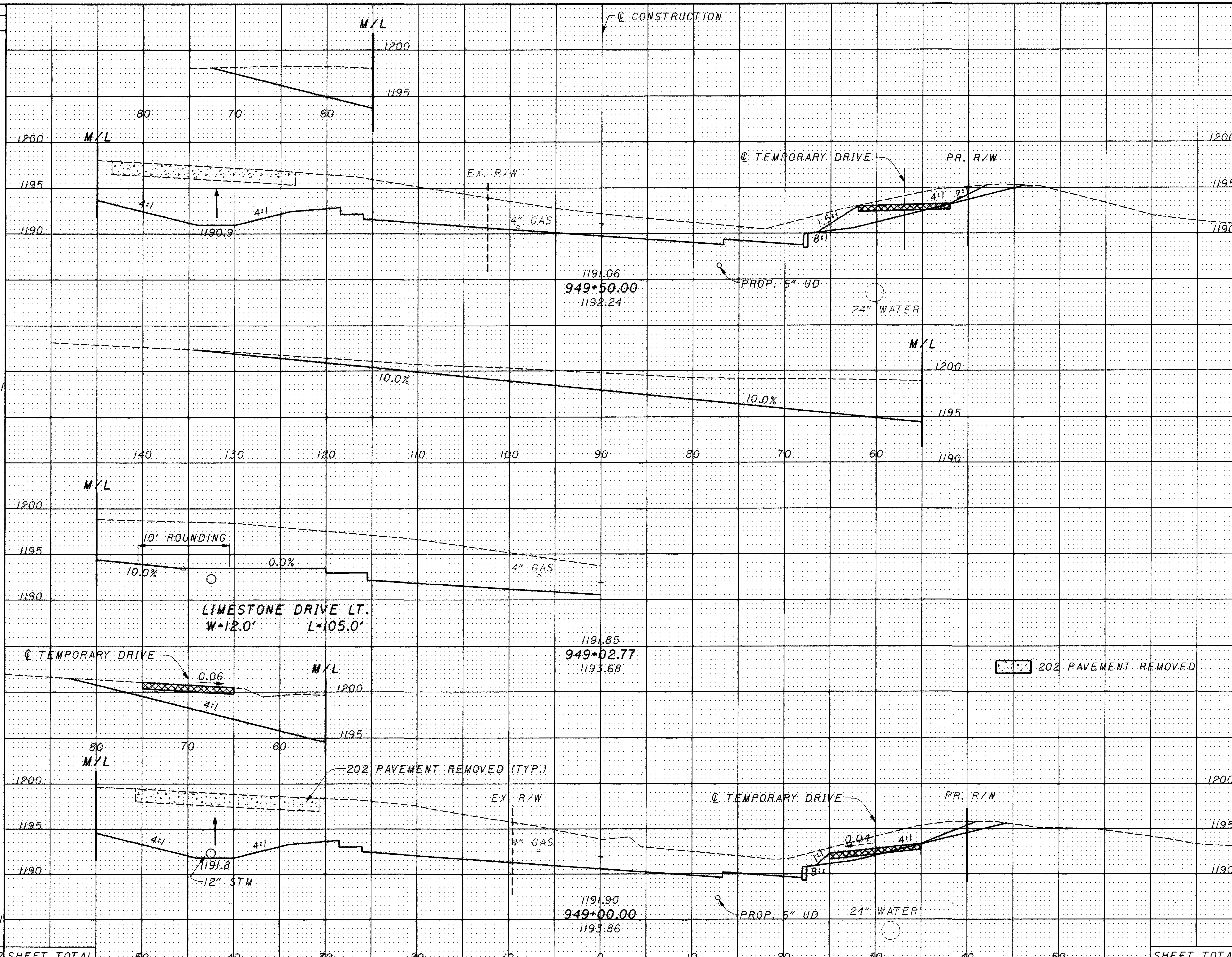
CROSS SECTIONS - S.R. 3
STA. 944+50 TO STA. 945+61

MED-3-17.82

SEEDING
END WIDTH
SQ. YDS.
℄ CONSTRUCTION
PR. R/W
M/L
1200
4:1
1195
70
60
℄ TEMPORARY DRIVE
M/L
EX. R/W
1200
1195
1190
4:1
4:1
1193.5
℄ TEMPORARY DRIVE
EX. R/W
0.04
4" GAS
8:1
4:1
PR. R/W
1193.64
947+50.00
1198.76
PROP. 6" UD
24" WATER
PR. R/W
EX. R/W
0.02
4:1
4:1
1193.7
℄ TEMPORARY DRIVE
EX. R/W
1:1
1193.96
947+00.00
1198.81
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN
203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN
PR. R/W
EX. R/W
0.02
4:1
4:1
1193.8
202 PAVEMENT REMOVED (TYP.)
℄ TEMPORARY DRIVE
EX. R/W
PR. R/W
202 PAVEMENT REMOVED
1194.16
946+50.00
1197.84
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN
PR. R/W
EX. R/W
℄ TEMPORARY DRIVE
0.04
4:1
4:1
0.04
1193.7
℄ TEMPORARY DRIVE
EX. R/W
0.04
8:1
4:1
4" GAS
PR. R/W
203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN
EXCAVATION AS PER PLAN
GRANULAR EMBANKMENT, AS PER PLAN
1194.22
946+00.00
1196.82
PROP. 6" UD
24" WATER
203 EXCAVATION AS PER PLAN
203 GRANULAR EMBANKMENT, AS PER PLAN
1185
67.3
345.9
57.2
295.6
49.2
261.7
45.0
246.4
1149.6
SHEET TOTAL
50 40 30 20 10 0 10 20 30 40 50
SHEET TOTAL
END AREA
CUT FILL
VOLUME
CUT FILL
523.5 0.0
871 0
417.4 0.0
36.9
36.9
689 0
68
68
326.9 0.0
35.9
35.9
515 0
66
66
228.9 0.0
34.9
34.9
372 0
63
63
2447 0
CALCULATED TW
CHECKED EEL
CROSS SECTIONS - S.R. 3
STA. 946+00 TO STA. 947+50
MED-3-17.82
29
66
223GXS.DGN 08/20/02 HN.RC 5

SEEDING
END WIDTH
SQ. YDS.
80.5
433.9
75.7
397.3
831.2
SHEET TOTAL
END AREA
CUT
FILL
VOLUME
CUT
FILL
573.2
0.0
1100
0
614.6
0.0
1054
0
SHEET TOTAL
2154
0
CALCULATED TW
CHECKED EEL
CROSS SECTIONS - S.R. 3
STA. 948+00 TO STA. 948+85.10
MED-3-17.82
30
66
℄ CONSTRUCTION
10' ROUNDING
EX. 12" CMP
12' ROUNDING
7.3%
8.5%
PROP. 6" UD
24" WATER
1192.12
948+85.10
1196.17
ASPHALT DRIVE RT.
W=12.0' L=47.0'
EX. R/W
℄ TEMPORARY DRIVE
M/L
4:1
1200
1195
1190
1185
80
70
60
EX. R/W
PR. R/W
℄ TEMPORARY DRIVE
4:1
4:1
1192.5
4" GAS
8:1
4:1
1192.61
948+50.00
1196.22
202 PAVEMENT REMOVED
M/L
4:1
M/L
0.07
202 PAVEMENT REMOVED (TYP.)
EX. R/W
PR. R/W
℄ TEMPORARY DRIVE
0.04
4:1
4:1
1193.1
4" GAS
8:1
4:1
PROP. 6" UD
24" WATER
1193.19
948+00.00
1197.86
50
40
30
20
10
0
10
20
30
40
50
223GXS.DGN 8/19/03 HN.RC 6

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



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

CALCULATED TM CHECKED EEL

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

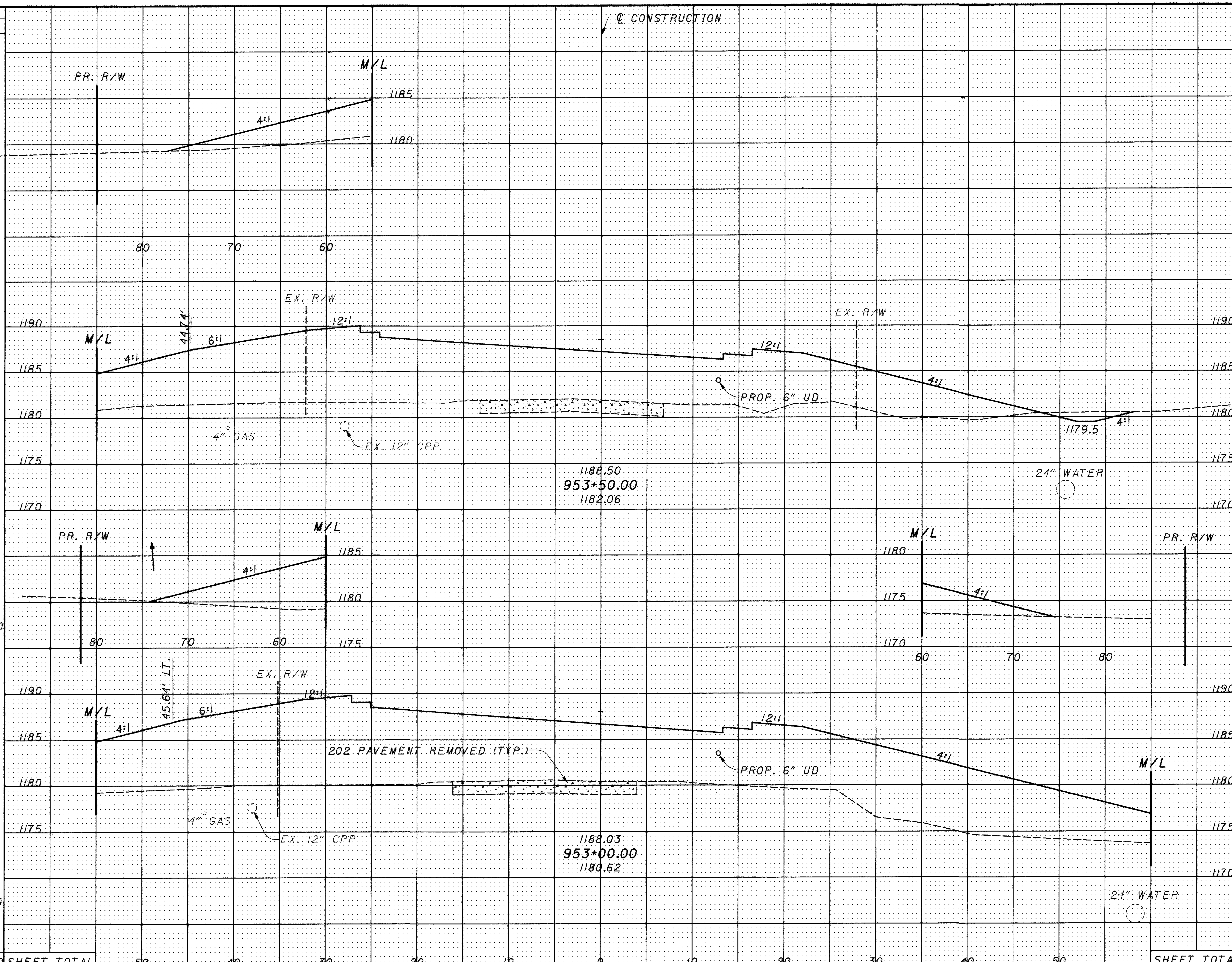
MED-3-17.82

223GXS.DGN 08/20/02 HN,RC 7


SEEDING
END WIDTH
SQ. YDS.
END AREA
CUT
FILL
VOLUME
CUT
FILL
CALCULATED TM
CHECKED EEL
℄ CONSTRUCTION
M/L
PR. R/W
RIPRAP, USING 6" REINFORCED CONCRETE SLAB
℄ TEMPORARY DRIVE
EX. R/W
M/L S.R. 606
1171.5
2:1
4:1
12:1
4" GAS
PROP. 6" UD
1188.02
951+50.00
1182.96
24" WATER
86.0
10.0
339.6
30
362
275.0
℄ TEMPORARY DRIVE
1188.4
1186.1
0.04
6:1
1188.48
951+00.00
1185.59
13.0 AH
43.3 BK
AH 21.6 50.7
BK 27.9 67.9
128
63
249.1
202 PAVEMENT REMOVED (TYP.)
1189.0
8:1
1189.17
950+50.00
1188.37
46.3
110.3
0.0
290.3
323
0
1190.0
1190.09
950+00.00
1190.23
58.2
238.2
0.0
357.3
557
0
1171.0
SHEET TOTAL
1038
425
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.
PR. R/W
M/L
4:1
EX. 5'x7' CMP
1190
1180
1175
1170
℄ CONSTRUCTION
12%
20' ROUNDING
0
20
40
60
80
100
120
140
160
TEMPORARY DRIVE PROFILE (10 SCALE)
951+00
46.55' LT.
EX. R/W
12:1
6:1
4" GAS
EX. 5'x7' CMP
EX. 4'x6' CONC. BOX CULVERT
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
℄ EX. 12" (E.) EL. 1176.36
℄ EX. 12" (W.) EL. 1176.28
STA. 952+69.45, 42.38' LT.
EX. CB
PROP. 6" UD
36' - PROP. 6'x4' CONC. BOX CULVERT @ 0.88%
4:1
2:1
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.
ADDITIONAL FOR DRIVE RT.
10%
PR. R/W
20' ROUNDING
12" STM
60 70 80 90 100 110 120 130 140 150 160 170 180
M/L S.R. 606
EX. R/W
4:1
AHEAD
BACK
202 PAVEMENT REMOVED (TYP.)
4" GAS
PROP. 6" UD
EX. 18" CPP
ADDITIONAL FOR DRIVE RT.
10%
4:1
1187.79
952+00.00
1181.07
+ 00.00 GRAVEL DR. RT.
W=12.0' L =156.0'
24" WATER
AH
BK
115
456
598
100
63
413
1467
SHEET TOTAL
50 40 30 20 10 0 10 20 30 40 50
END AREA
CUT
FILL
VOLUME
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 HNJ,JDY,KH,RC 9

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



SEEDING END WIDTH	SEEDING SQ. YDS.
94.3	
	564.0
108.3	
	621.0
	1185.0 SHEET TOTAL

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
953+50.00	6.3	601.5		
			6	1358
953+00.00	0.0	864.4		
			0	1633
SHEET TOTAL			6	2991

CALCULATED TM
CHECKED EEL

MED-3-17.82

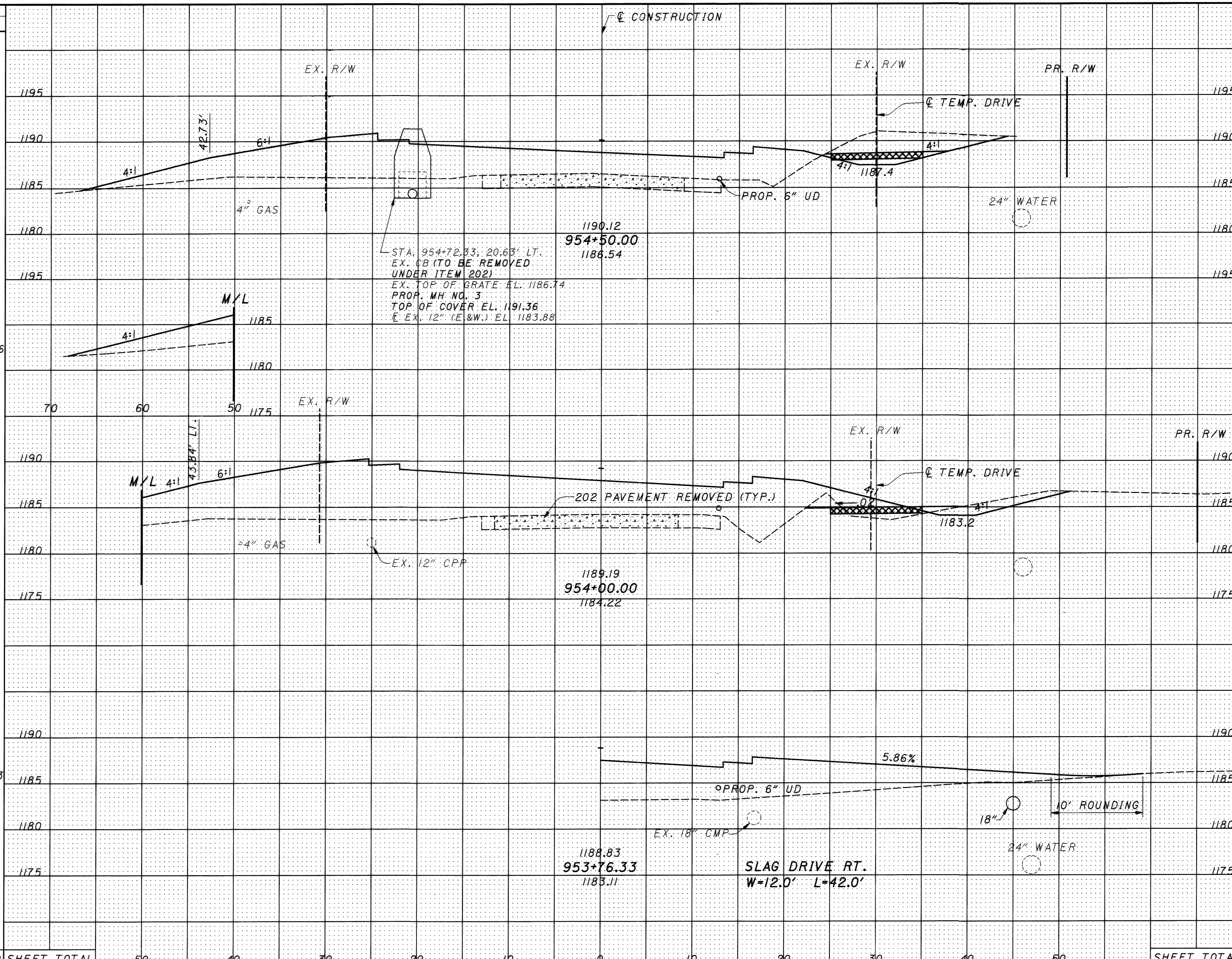
223GXS.DGN 8/27/03 HN.RC 10

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

MED-3-17.82

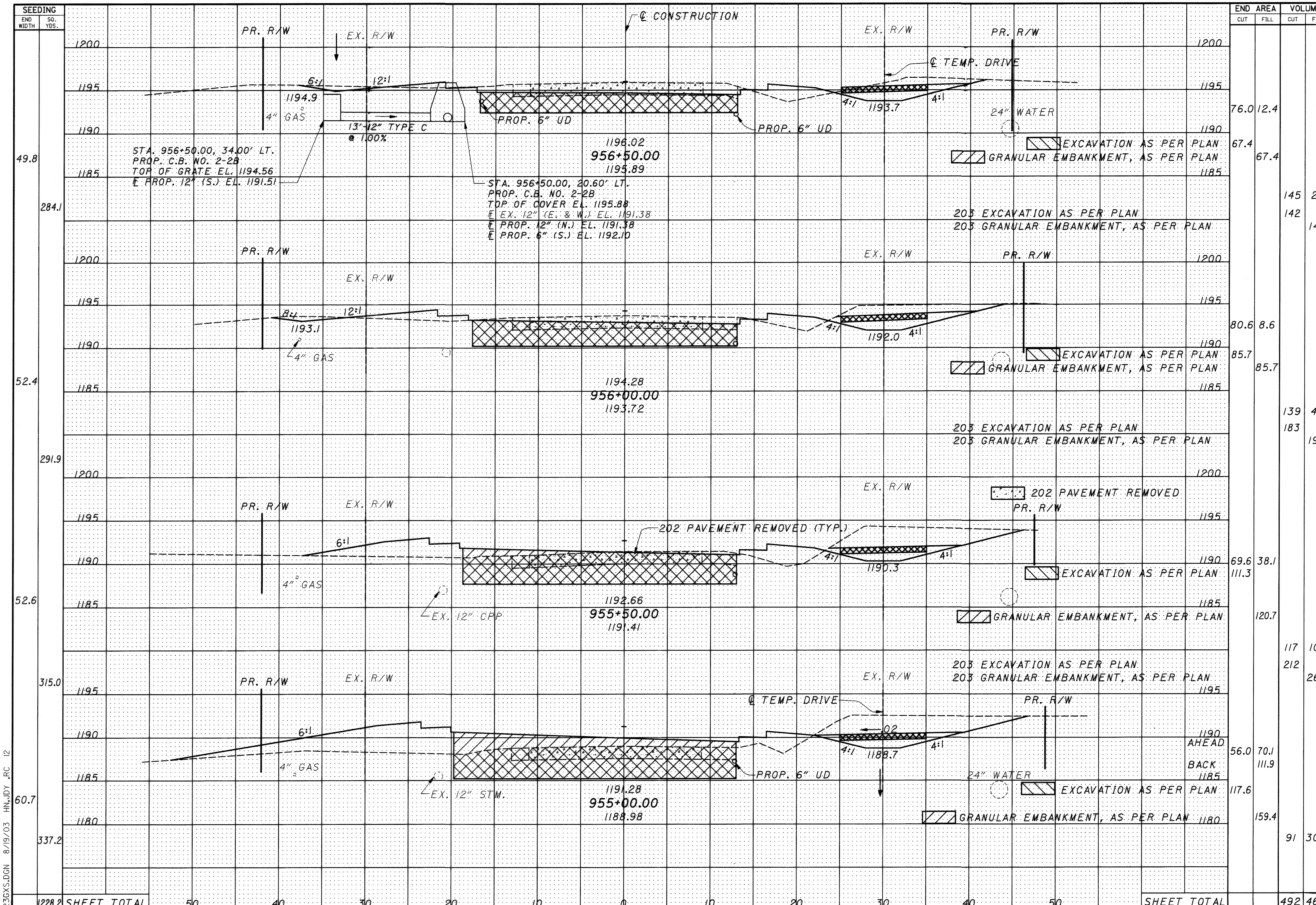
CALCULATED TW — CHECKED EEL

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



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

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



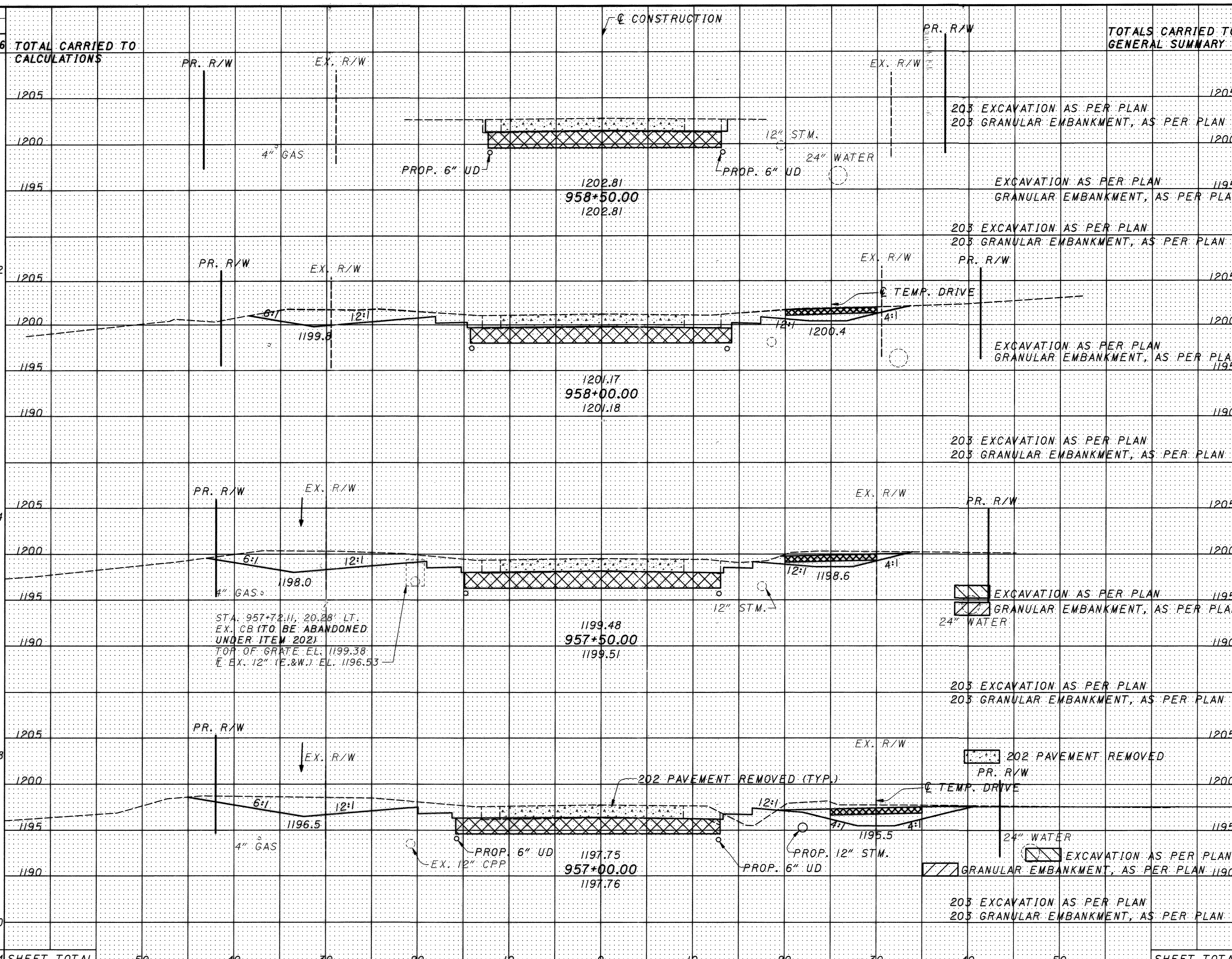
CROSS SECTIONS - S.R. 3
STA. 955+00 TO STA. 956+50

CALCULATED TW
CHECKED EEL

MED-3-17.82

36/66

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



SEEDING END WIDTH	SEEDING SQ. YDS.
	11,496
0	
	106.2
38.2	
	215.4
39.3	
	250.8
50.9	
	280.0
SHEET TOTAL	852.4

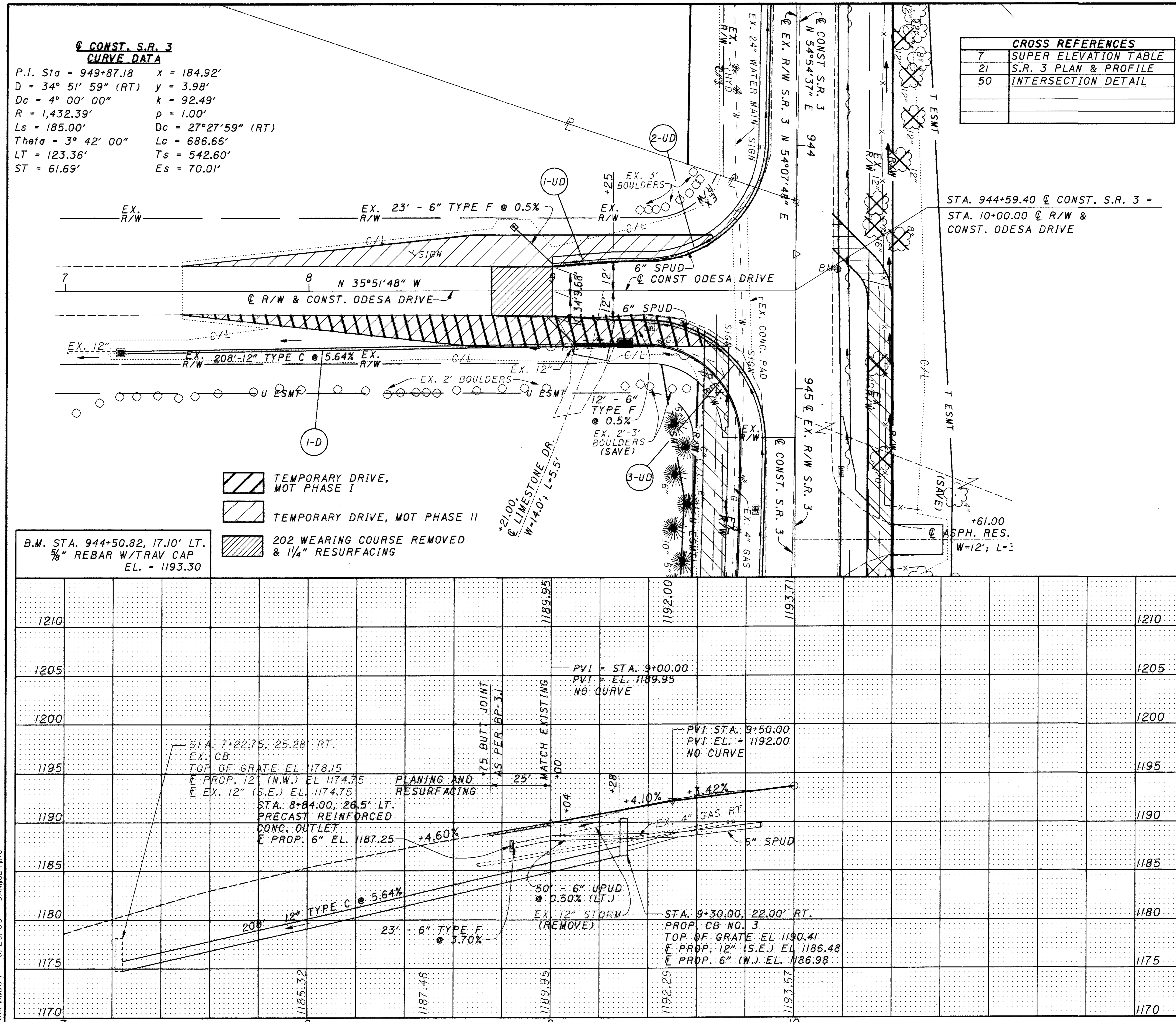
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		9789	8517
		1,609	1,669
40.3	0.0		
46.6	46.6		
		123	0
		89	89
92.6	0.0		
49.0	49.0		
		175	0
		91	91
95.9	0.0		
49.1	49.1		
		188	5
		93	93
106.8	5.1		
50.9	50.9		
		170	16
		110	110
		656	21

CALCULATED TW CHECKED EEL

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

MED-3-17.82

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



REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED, 24″ AND UNDER (FOOT)	603 6″ CONDUIT, TYPE F (FOOT)	603 12″ CONDUIT, TYPE C (FOOT)	604 CATCH BASIN, NO. 3 (EACH)	604 PRECAST REINFORCED CONCRETE OUTLET (EACH)	605 6″ SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)	605 6″ UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP (FOOT)	BENDS 6″ x 45° BEND (EACH)
1-D	7+22.75	9+30.00	RT.	24		208	1				
1-UD	8+84.00	9+50.00	LT.		23			1		50	1
2-UD	9+50.00	9+79.50	LT.						37		
3-UD	9+30.00	9+75.50	RT.		12				40		1
TOTALS CARRIED TO GENERAL SUMMARY				24	35	208	1	1	77	50	

HORIZONTAL SCALE IN FEET 0 10 20 40

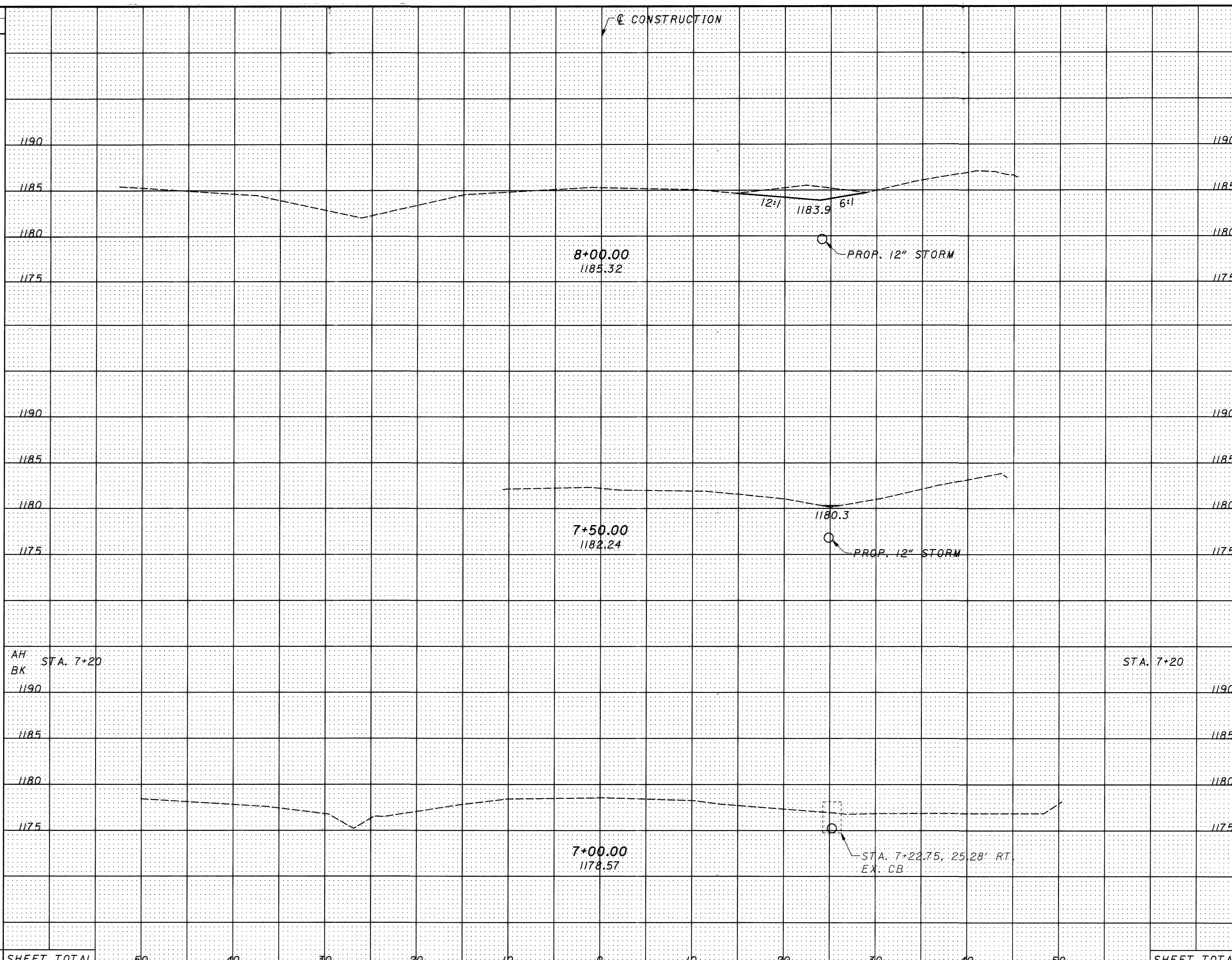
CALCULATED TM
CHECKED EEL

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

MED-3-17.82

223GPBL.DGN 8/29/03 SAM,JDY,RC

SEEDING END WIDTH	SEEDING SQ. YDS.
14	
	45
2	
	7
2 0	
SHEET TOTAL	52



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
12	0		
		12	1
0	1		
		0	1
0	0		
SHEET TOTAL		12	2

CALCULATED TM
CHECKED EEL

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
SQ. YDS.
TOTAL CARRIED TO CALCULATIONS
USE 318 SQ. YD.
317.2
M/L S.R. 3
℄ CONSTRUCTION
TOTALS CARRIED TO GENERAL SUMMARY
END AREA
CUT
FILL
VOLUME
CUT
FILL
267
4
CALCULATED TM
CHECKED EEL
AH 0.0 0.0
BK 121.1 0.0
BACK
0.0
1193.30
9+88.00
1193.32
42.2
127
1
EX. R/W
EX. R/W
4:1
8:1
1190.5
PROP. 6" UD
PROP. 6" UD
20.0
59
1.3
1192.00
9+50.00
1192.26
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'
89.0
EX. R/W
EX. R/W
92
1
12:1
1188.78
PROP. 6" UD
PROP. 12" STORM
12
AH 39.4 0.0
BK 9.0 0.0
1189.95
9+00.00
1189.95
64
17
0
11
8.5
0
12:1
8+50.00
1187.48
1186.28
PROP. 12" STORM
70
19
0
14
STA. 8+00
STA. 8+00
12
0
265.2
SHEET TOTAL
SHEET TOTAL
255
2
50 40 30 20 10 0 10 20 30 40 50
1195 1190 1200 1195 1190 1185 1195 1190 1185 1195 1190 1185 1180 1185 1180
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

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

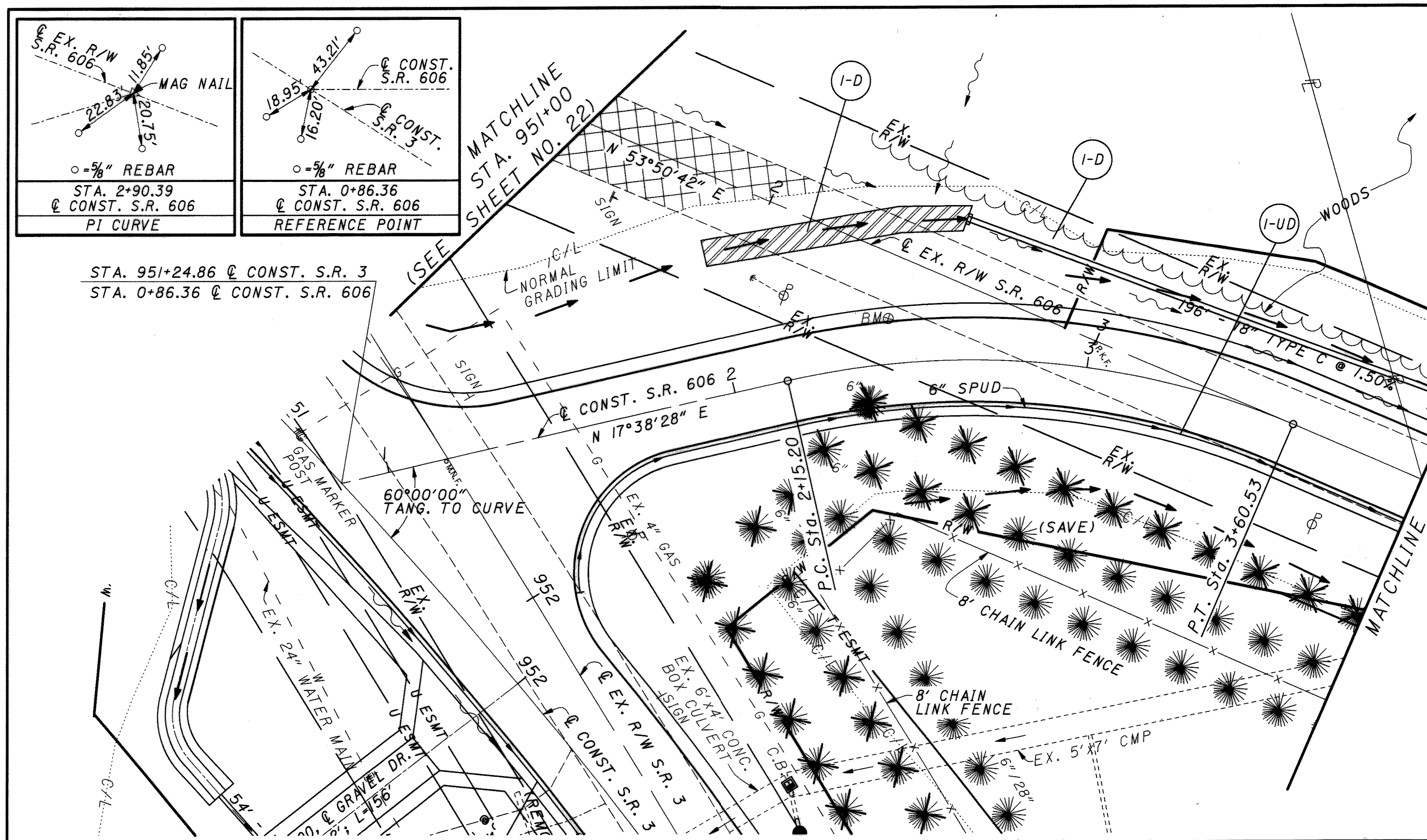
ITEM 203 - EXCAVATION
134.8 x 9" / 36 = 33.7 CU. YD.
USE 34 CU. YD.

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



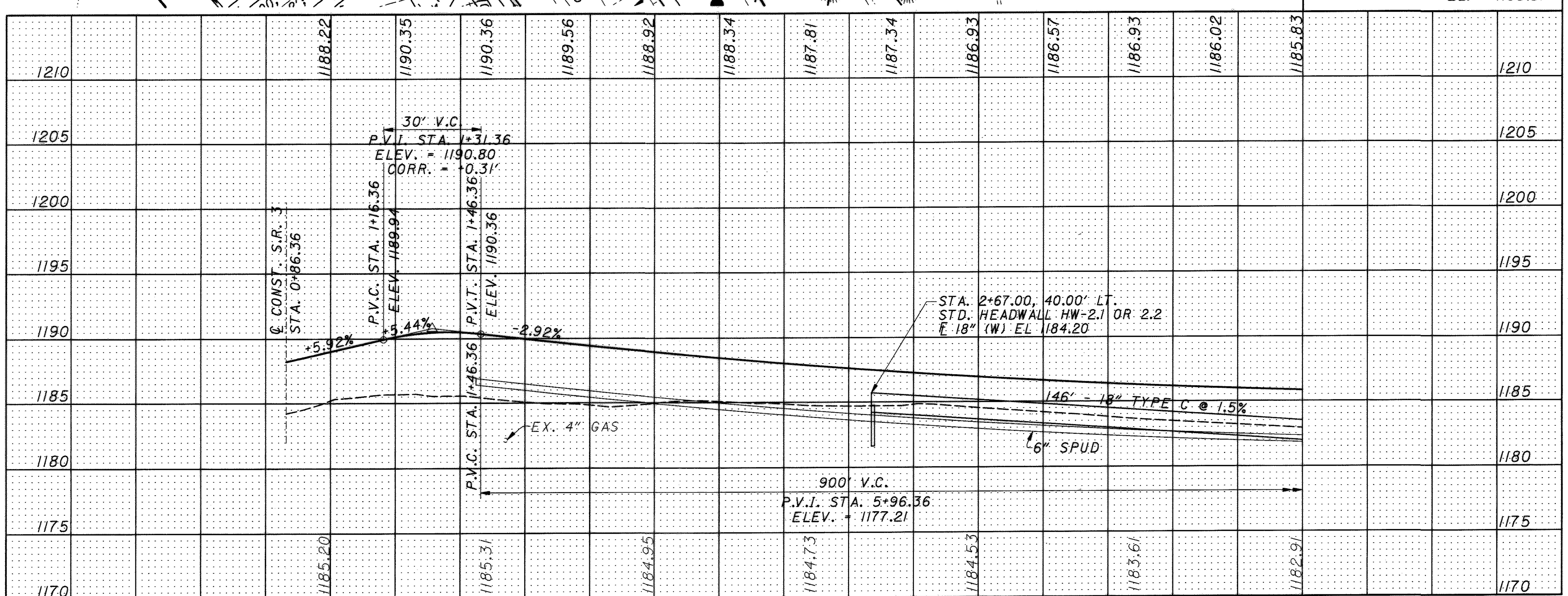
PAVEMENT TO BE REMOVED

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



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

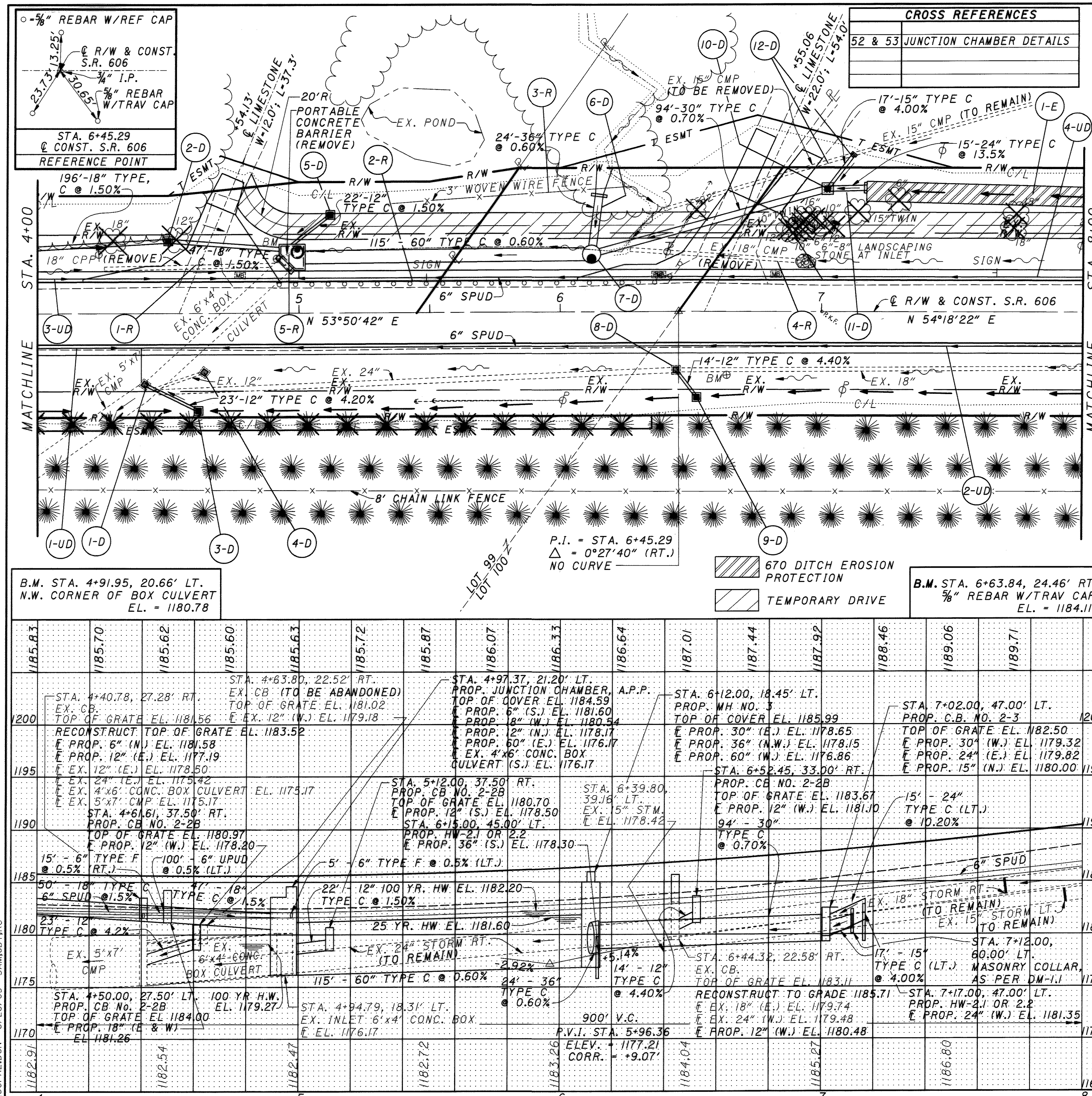
HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED TM CHECKED EEL

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

MED-3-17.82

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



			1-D	2-D	3-D	4-D	5-D	6-D	7-D	8-D	9-D	10-D	11-D	12-D	1-E	1-UD	2-UD	3-UD	4-UD	1-R	2-R	3-R	4-R	5-R	TOTALS CARRIED TO GENERAL SUMMARY
BENDS	6" x 6" x 6" TEE	EACH														1		1							
670	DITCH EROSION PROTECTION	SQYD													70										70
605	6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	FOOT														41	359		300						700
605	6" UNCLASSIFIED PIPE UNDERDRAINS WITH FABRIC WRAP	FOOT																100							100
604	MANHOLE, NO. 3	EACH							1																1
604	CATCH BASIN RECONSTRUCTED TO GRADE	EACH	1							1															2
604	CATCH BASIN, NO. 2-3	EACH										1													1
604	CATCH BASIN, NO. 2-2B	EACH		1	1		1				1														4
603	60" CONDUIT, TYPE C	FOOT							115																115
603	36" CONDUIT, TYPE C	FOOT						24																	24
603	30" CONDUIT, TYPE C	FOOT										94													94
603	24" CONDUIT, TYPE C	FOOT											15												15
603	18" CONDUIT, TYPE C	FOOT		97																					97
603	15" CONDUIT, TYPE C	FOOT												17											17
603	12" CONDUIT, TYPE C	FOOT			23		22				14														59
603	6" CONDUIT, TYPE F	FOOT														15		5							20
602	CONCRETE MASONRY	CU YD						0.69					0.43												1.2
202	REMOVAL MISC: PORTABLE CONC. BARRIER	FOOT																						10	10
202	FENCE REMOVED	FOOT																				93			93
202	CATCH BASIN ABANDONED	EACH				1																			1
202	GUARDRAIL REMOVED	FOOT																			155				155
202	PIPE REMOVED 24" AND UNDER	FOOT												75						49			62		186
	SIDE		RT.	LT.	RT.	RT.	LT.	LT.	LT.	RT.	RT.	LT.	LT.	LT.	LT.	RT.	RT.	LT.	LT.	LT.	LT.	LT.	LT.	LT.	
STATION	TO			4+97.37	4+40.78		4+97.37	6+12.00	4+97.37		6+44.32	6+12.00	7+02.00	7+12.00	8+00.00	4+41.00	8+00.00	5+00.00	8+00.00	4+90.00	6+46.00	6+28.00	6+90.00	5+01.00	
STATION	FROM		4+40.78	4+00.00	4+61.16	4+63.80	5+12.00	6+18.00	6+12.00	6+44.32	6+52.45	7+02.00	7+17.00	6+39.80	7+17.00	4+00.00	4+41.00	4+00.00	5+00.00	4+41.00	4+91.40	5+35.00	6+28.00	4+93.00	
REF NO.			1-D	2-D	3-D	4-D	5-D	6-D	7-D	8-D	9-D	10-D	11-D	12-D	1-E	1-UD	2-UD	3-UD	4-UD	1-R	2-R	3-R	4-R	5-R	

HORIZONTAL SCALE IN FEET 0 10 20 40

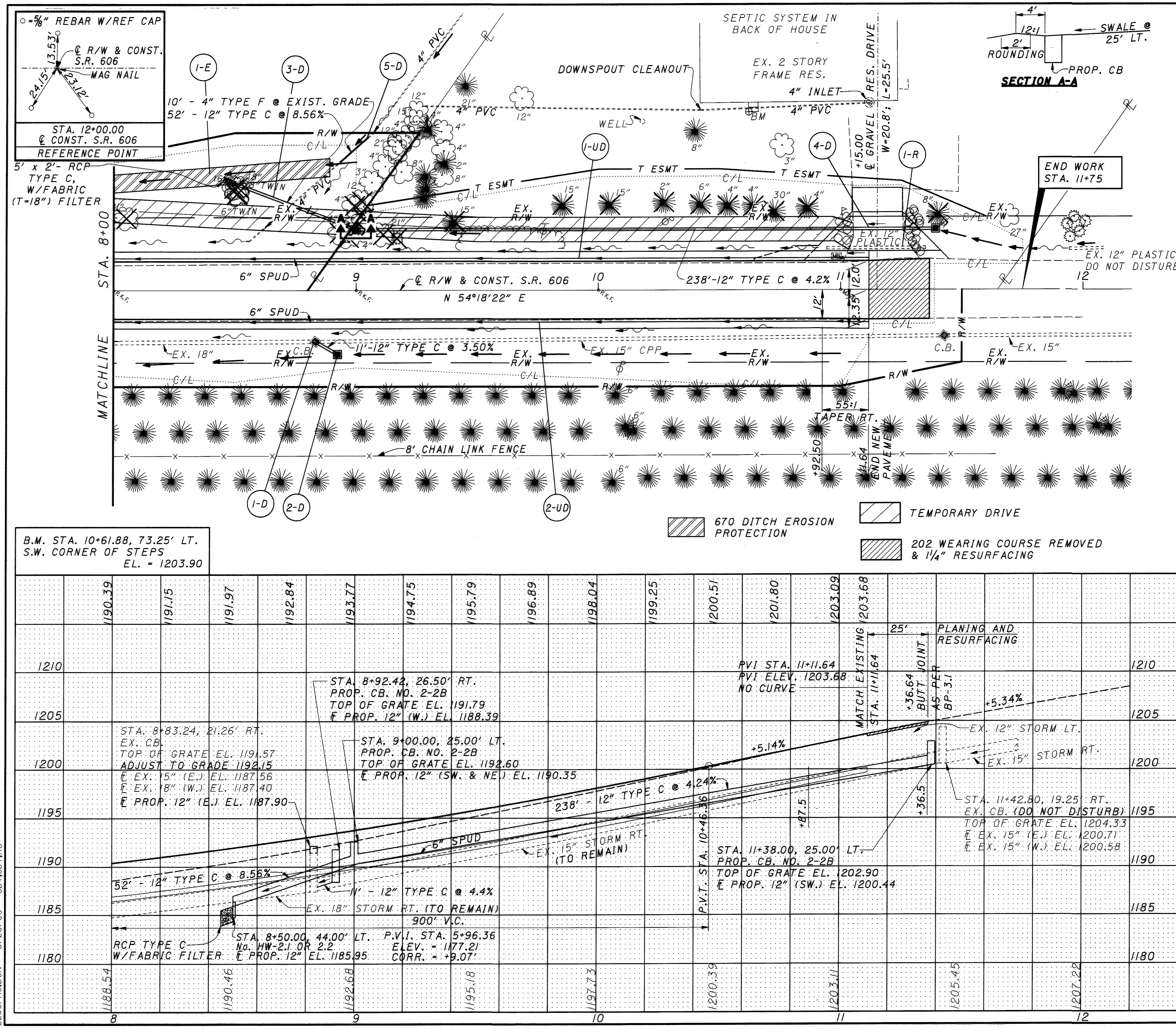
CALCULATED TM

CHECKED EEL

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

MED-3-17.82

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



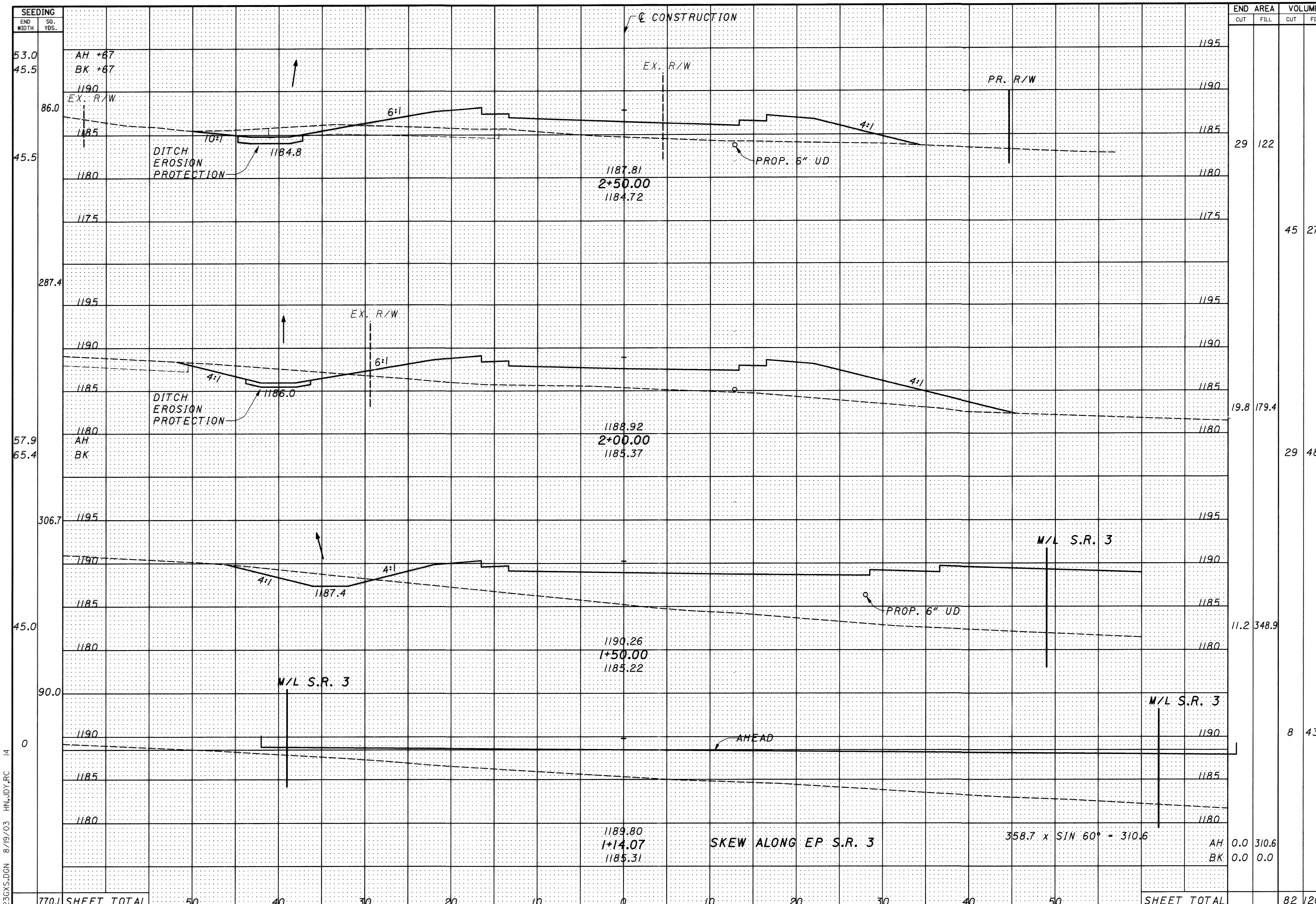
REF NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" AND UNDER (FOOT)	601 ROCK CHANNEL PROTECTION, TYPE C W/ FILTER FABRIC (CU YD)	603 4" CONDUIT, TYPE F (FOOT)	603 12" CONDUIT, TYPE C (FOOT)	604 CATCH BASIN, NO. 2-2B (EACH)	604 CATCH BASIN, ADJUSTED TO GRADE (EACH)	605 6" SHALLOW PIPE UNDERDRAINS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

CALCULATED TM
CHECKED EEL

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

MED-3-17.82

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



CALCULATED TM
CHECKED EEL

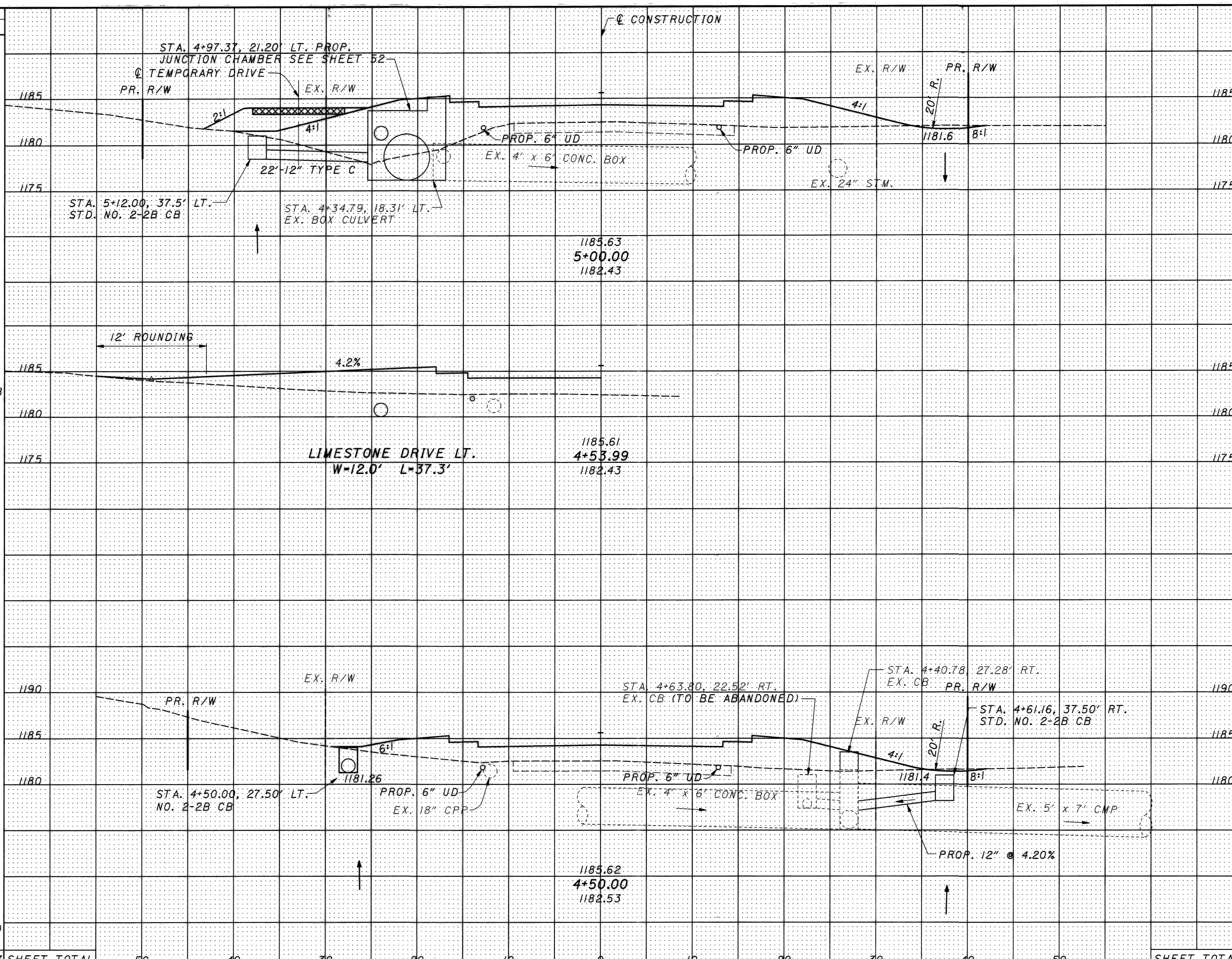
CROSS SECTIONS - S.R. 606
STA. 1+14 TO STA. 2+50

MED-3-17.82

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
SHEET TOTAL
℄ CONSTRUCTION
PR. R/W
EX. R/W
2:1
4:1
8:1
20' R.
1185.0
18" STM
PROP. 6" UD
1181.8
1185.83
4+00.00
1182.90
33' TO BREAK FROM 4:1 TO 2:1
(CLEAR ZONE LIMIT)
1185.7
1182.6
1186.27
3+50.00
1183.61
1186.5
1186.93
3+00.00
1184.50
1195
1190
1185
1180
50
40
30
20
10
0
END AREA
CUT
FILL
VOLUME
CUT
FILL
45.9
136.7
95
232
56.3
114.2
70
213
18.7
115.1
45
220
210
665
CALCULATED TW
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 HN,JDY,RC 15

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



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

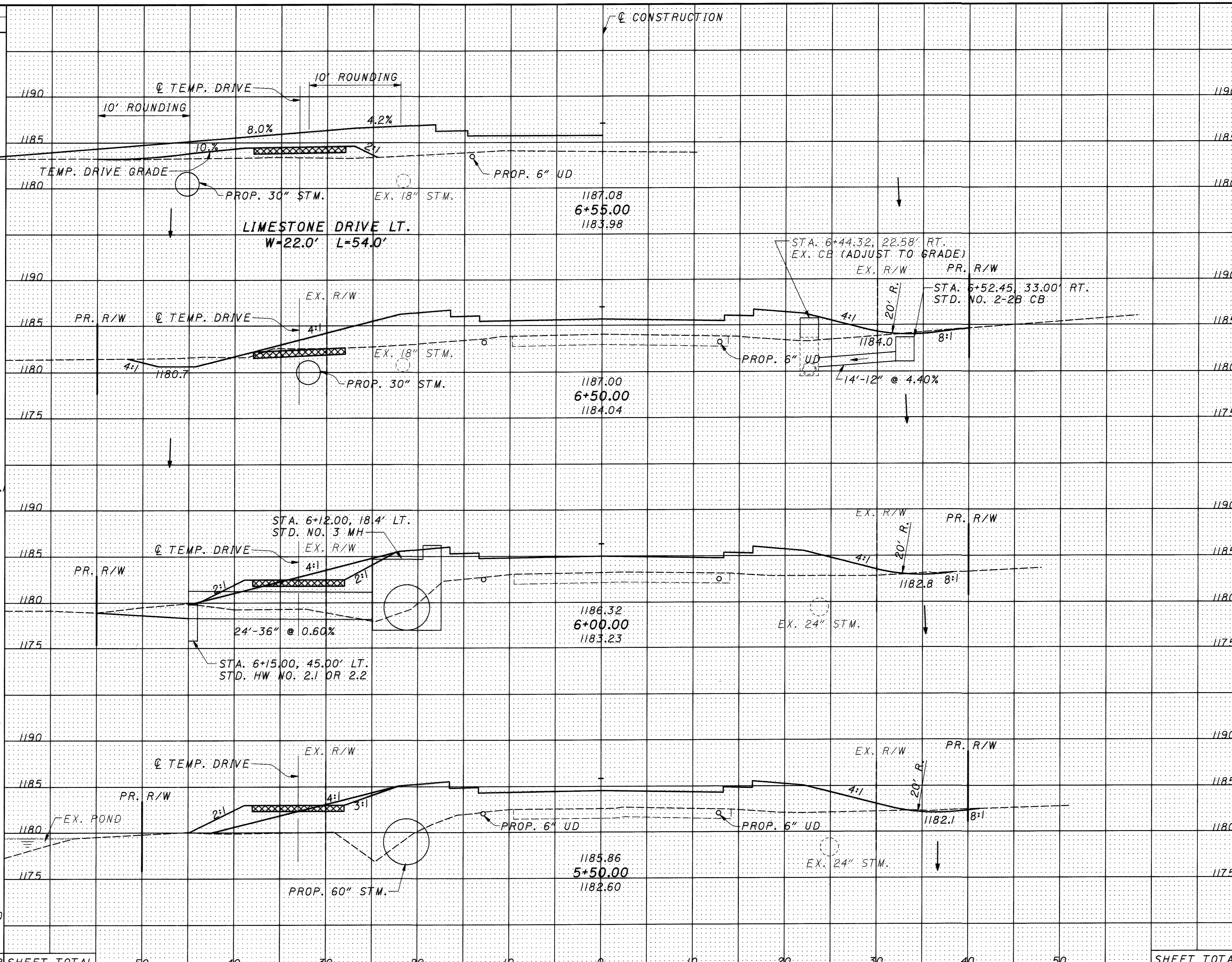
CALCULATED TW
CHECKED EEL

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

MED-3-17.82

223GXS.DGN 8/19/03 HN,JDY,RC 16

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



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

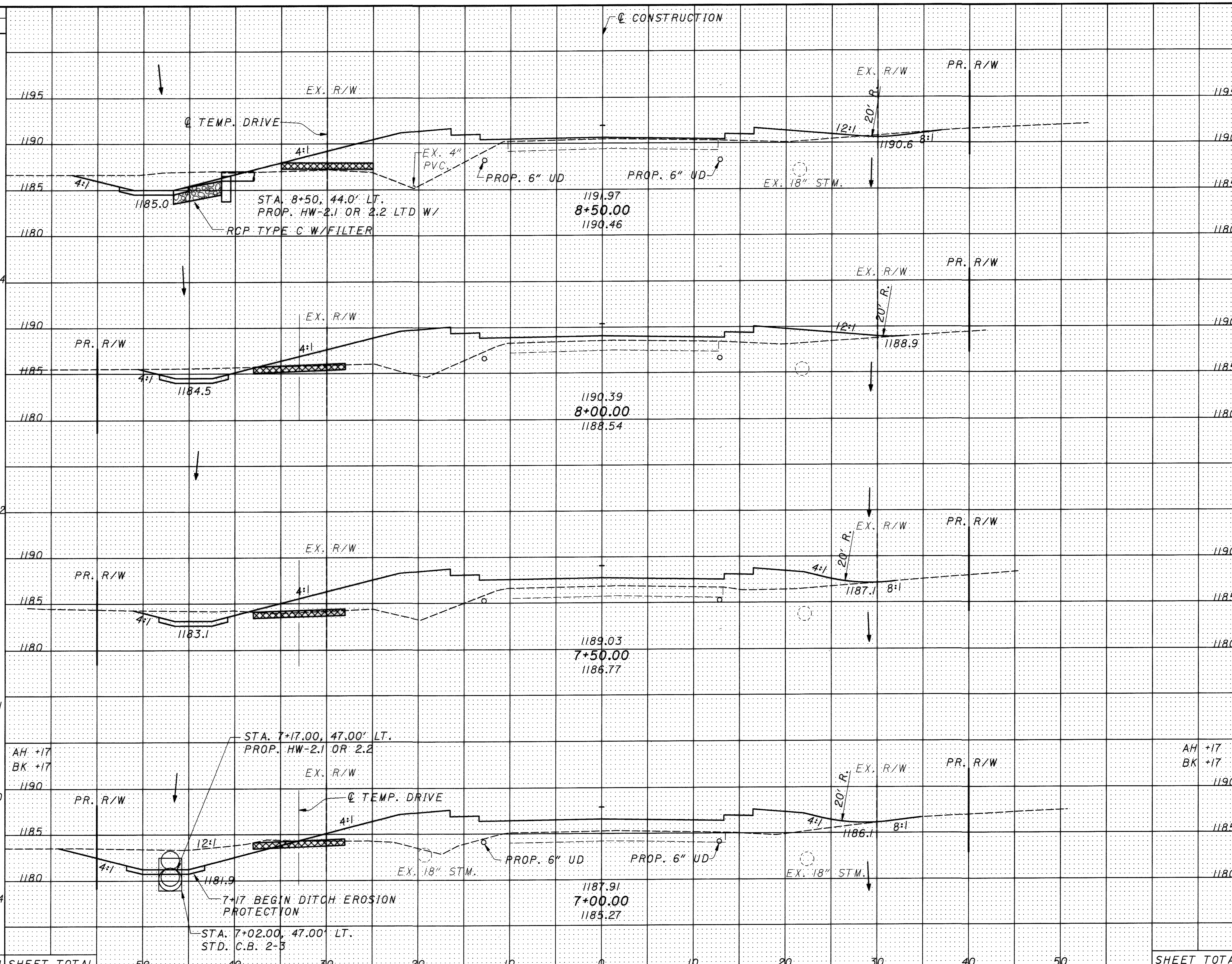
CROSS SECTIONS - S.R. 606
STA. 5+50 TO STA. 6+55

MED-3-17.82

46
66

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

SEEDING	
END WIDTH	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		VOLUME	
CUT	FILL	CUT	FILL
44.4	118.1		
		74	215
34.6	113.4		
		65	258
35.0	144.1		
		55	171
54.2 (AH +17)	135.3		
26.4 (BK +17)	135.3		
		17	86
26.4	135.3		
		54	294
SHEET TOTAL		265	1024

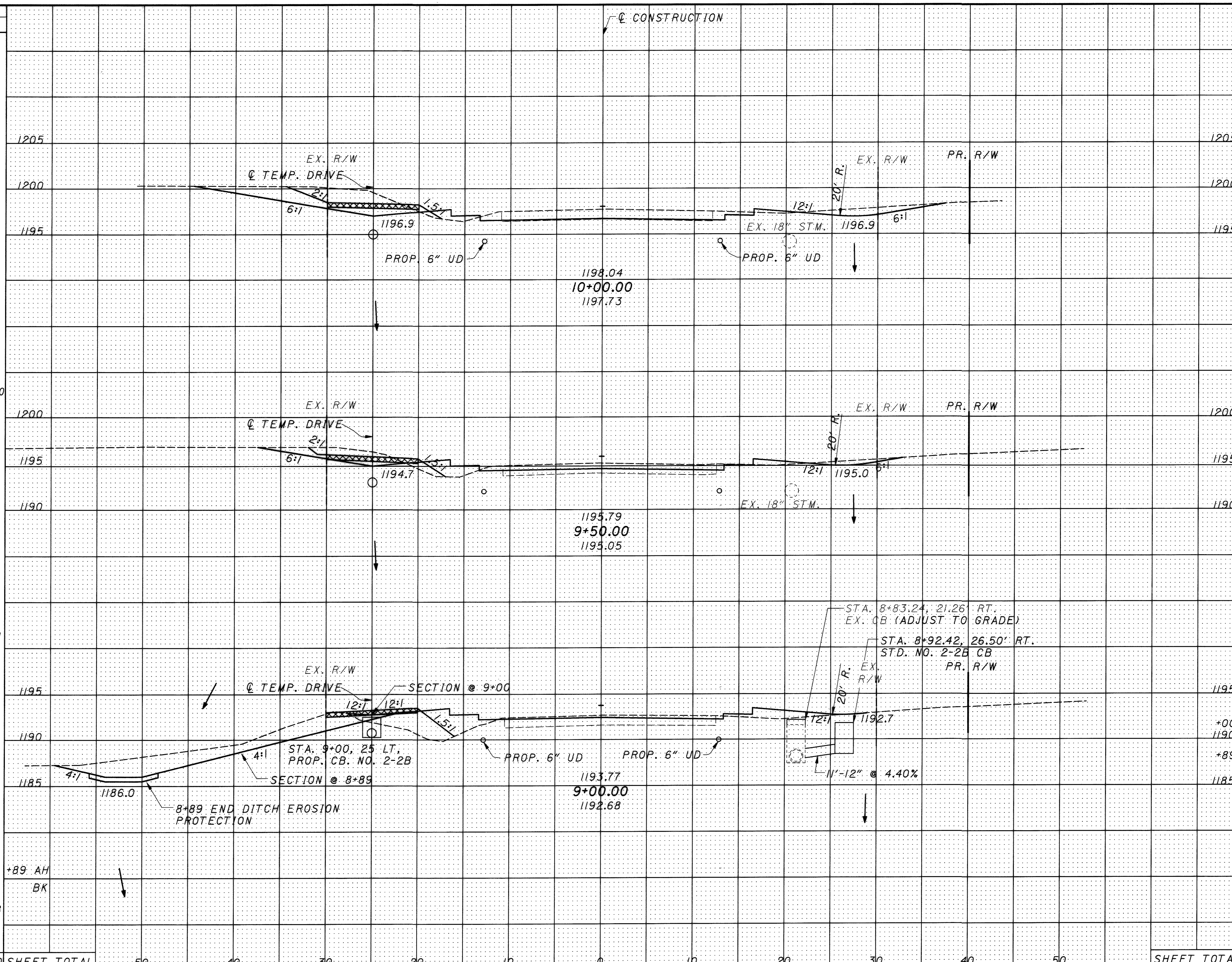
CALCULATED TW
CHECKED EEL

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

MED-3-17.82

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	
49.6	
	216.8
	692.0 SHEET TOTAL



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
SHEET TOTAL		235	242

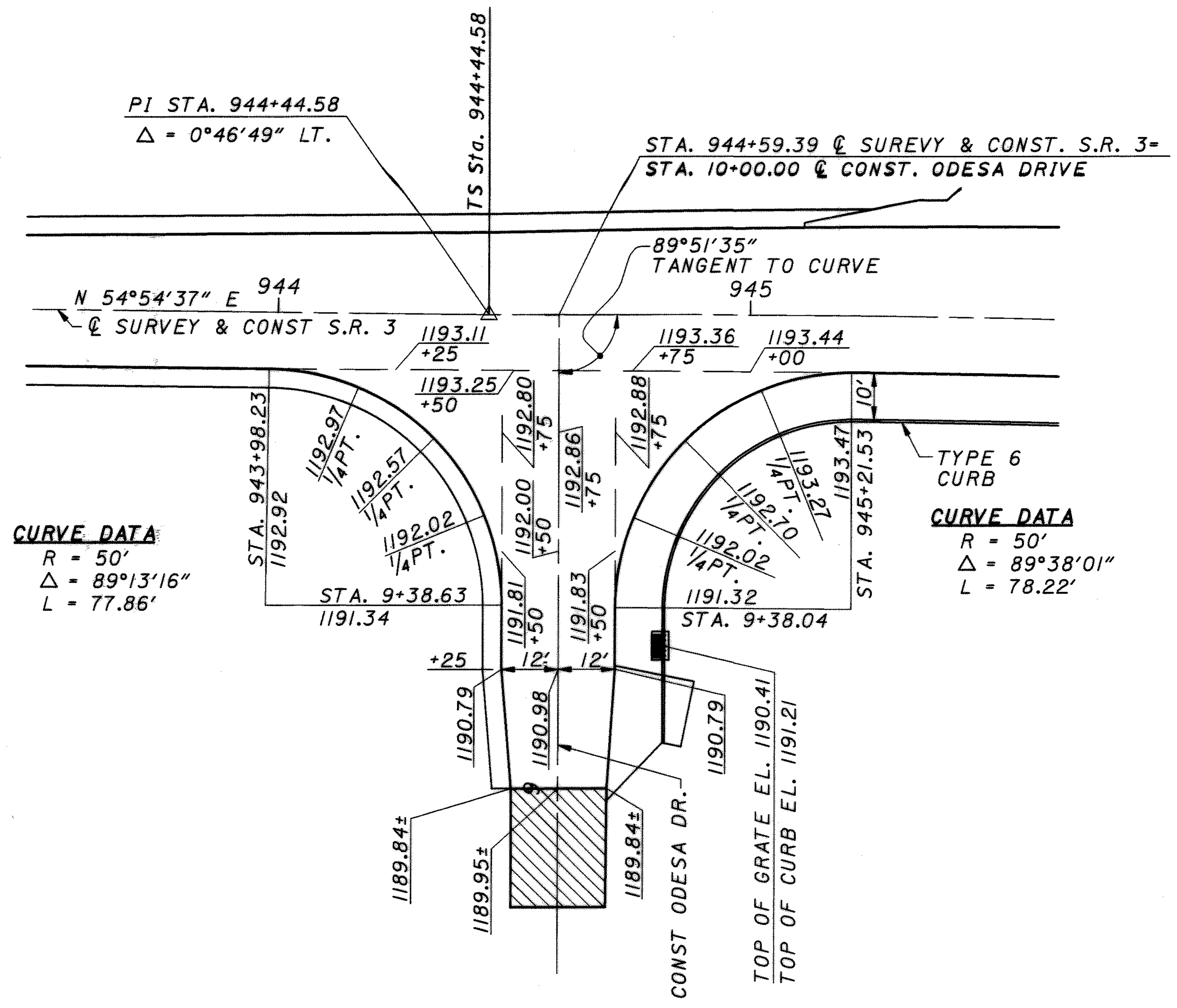
CALCULATED TW
CHECKED EEL

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

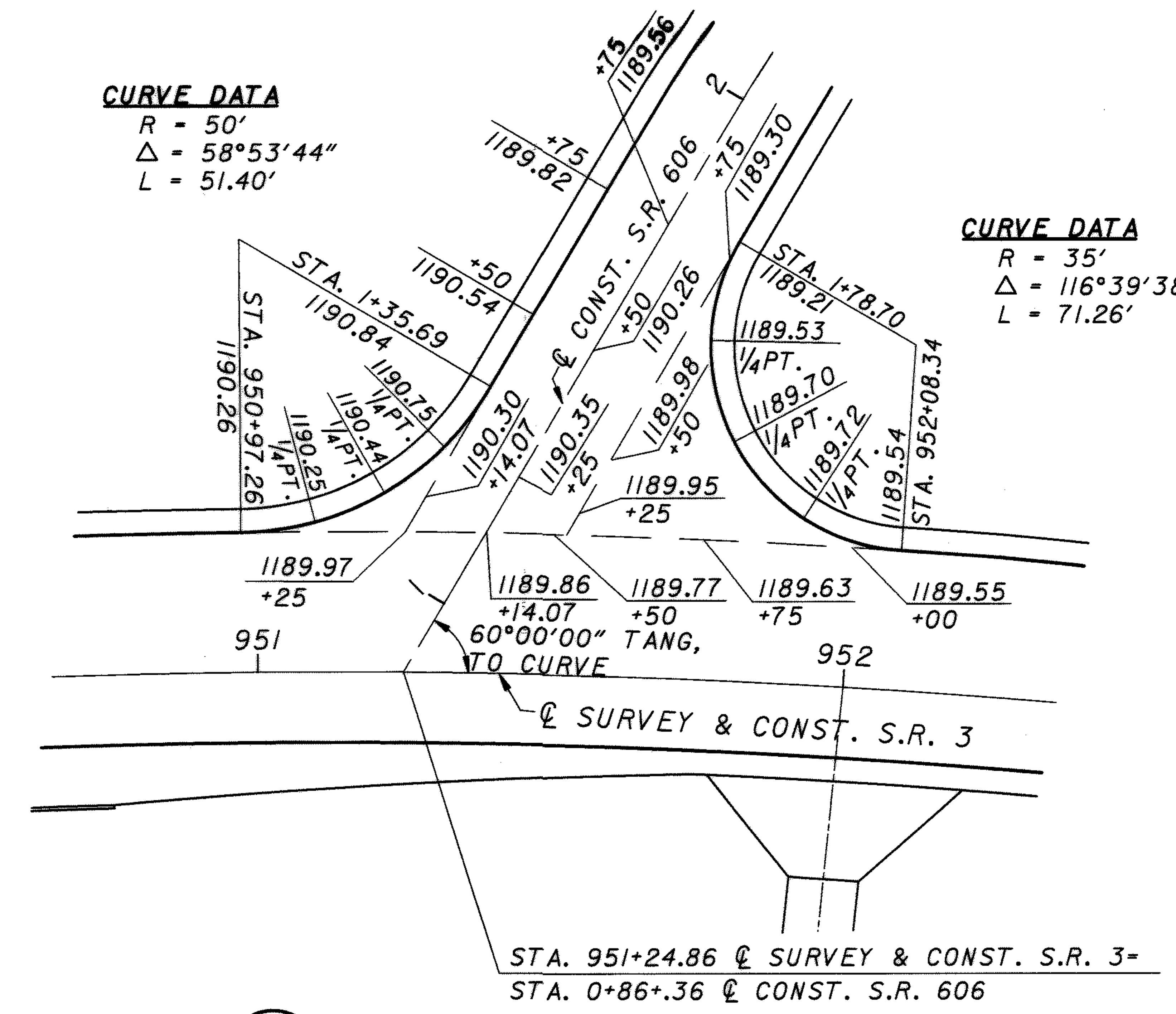
MED-3-17.82

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


SEEDING
END WIDTH
SQ. YDS.
5,269.1
TOTAL CARRIED TO CALCULATIONS
USE 5270 SQ. YD.
EX. R/W
℄ CONSTRUCTION
TOTALS CARRIED TO GENERAL SUMMARY
END AREA
CUT
FILL
VOLUME
CUT
FILL
1415
4838
CALCULATED TM
CHECKED EEL
0
0
AH
BK
11+50.00
1205.50
END EARTH WORK
0.0
0.0
6
1
14.4
21.6
4:1
4:1
EX. 12" STM.
STA. 11+38, 25" LT.
PROP. CB. NO. 2-2B
11+38.00
1204.70
23.0
4.1
21
2
10' ROUNDING
PR. R/W
EX. R/W
4.2%
4.2%
AHEAD
BACK
PROP. 12" STM.
EX. 12" STM.
PROP. 6" UD
EX. 18" STM.
PROP. 6" UD
18.9
0
60.3
0
1203.68
11+11.64
1203.70
+15 GRAVEL DRIVE LT.
W=20.8' L=25.5'
149.0
31
0
PR. R/W
EX. R/W
20' R.
12:1
6:1
12:1
6:1
1202.0
1201.9
EX. 12" STM.
PROP. 12" STM.
81.7
0.1
48.9
1203.09
11+00.00
1203.11
152
3
278.0
EX. R/W
EX. R/W
PR. R/W
℄ TEMP. DRIVE
2:1
6:1
1.5:1
20' R.
12:1
6:1
1199.4
1199.4
EX. 18" STM.
PROP. 12" STM.
PROP. 6" UD
PROP. 6" UD
1200.51
10+50.00
1200.37
82.0
3.6
51.1
273.0
141
8
714.4
SHEET TOTAL
351
14
50 40 30 20 10 0 10 20 30 40 50
1210 1205 1200 1195
223GXS.DGN 8/28/03 HN,JDY,RC 20
CROSS SECTIONS - S.R. 606
STA. 10+50 TO STA. 11+50
MED-3-17.82
49
66



S.R. 3 - ODESA DRIVE INTERSECTION



S.R. 3 - S.R. 606 INTERSECTION

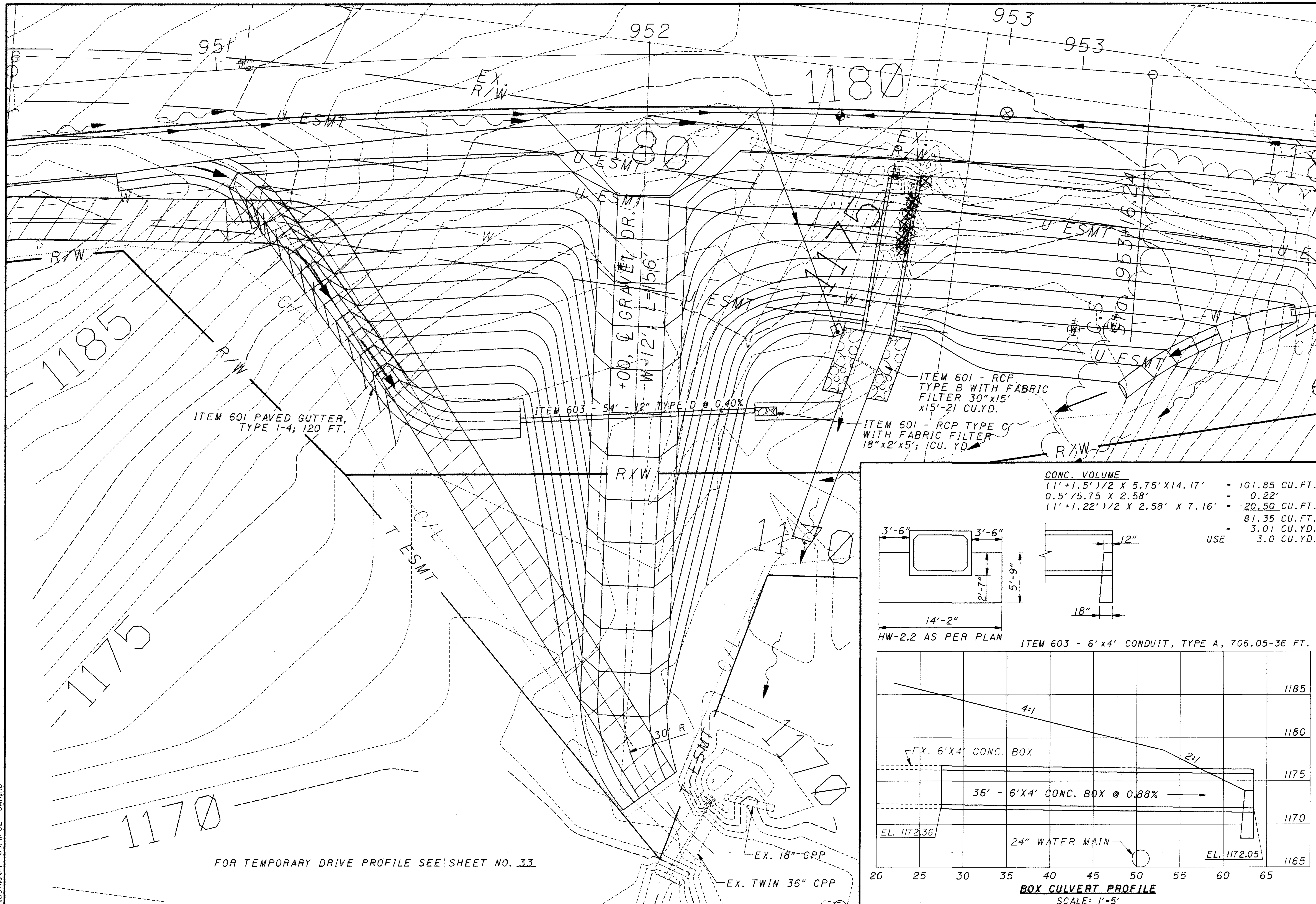
S.R. 3 & ODESA DRIVE INTERSECTION DETAIL / S.R. 3 - S.R. 606 INTERSECTION DETAIL

MED-3-17.82

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED PDG
CHECKED EEL

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

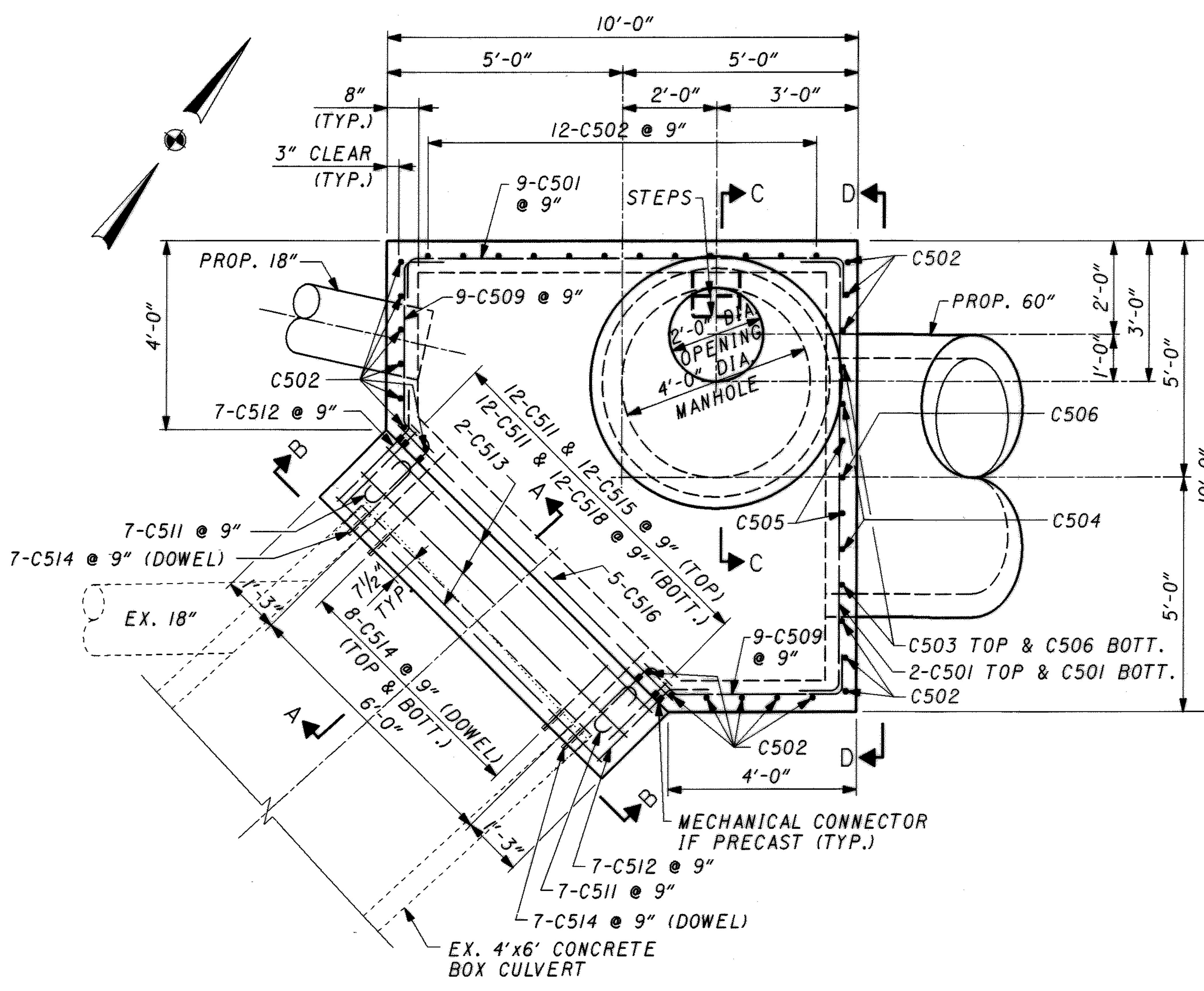


CALCULATED TM
CHECKED EEL

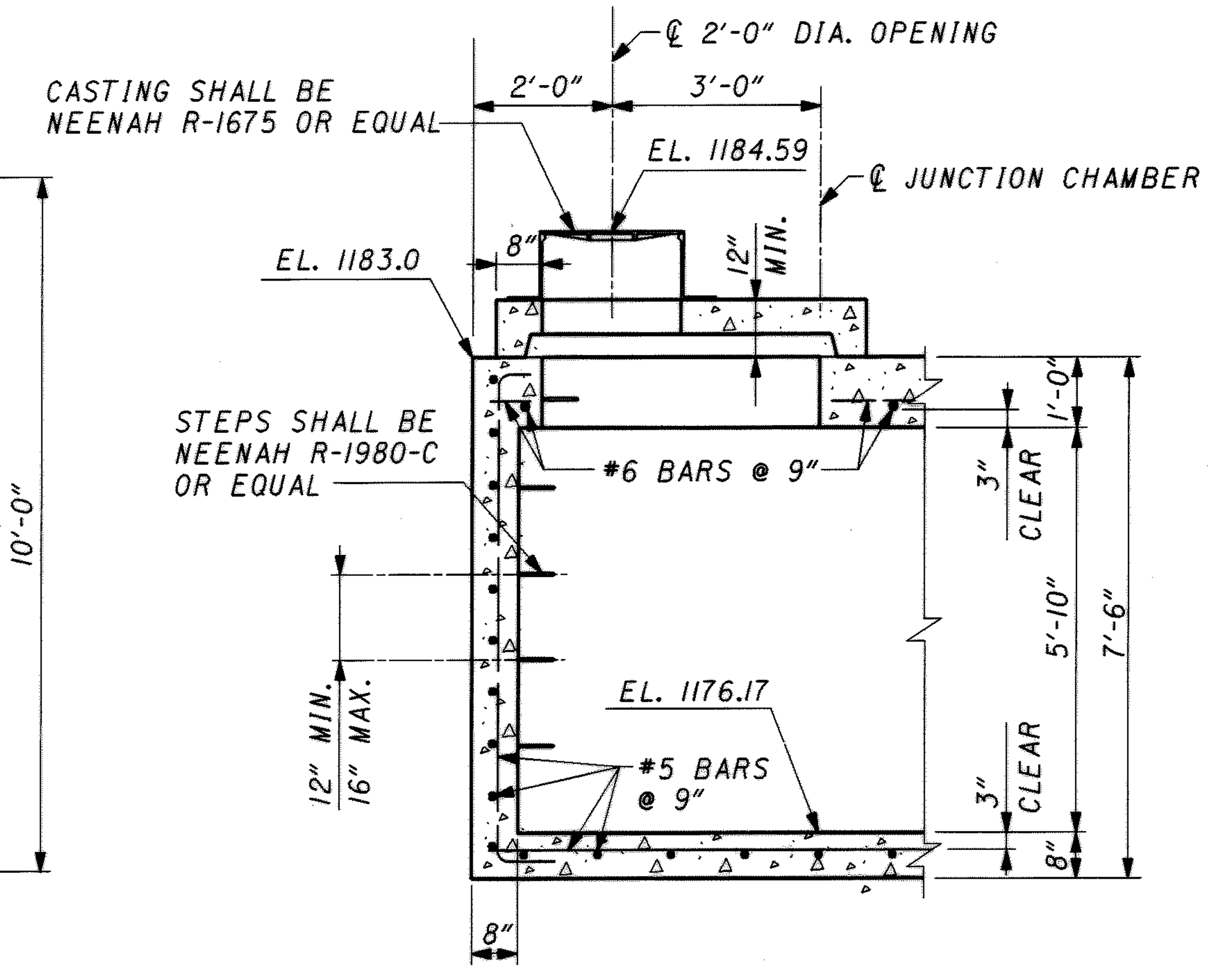
CULVERT DETAIL

MED-3-17.82

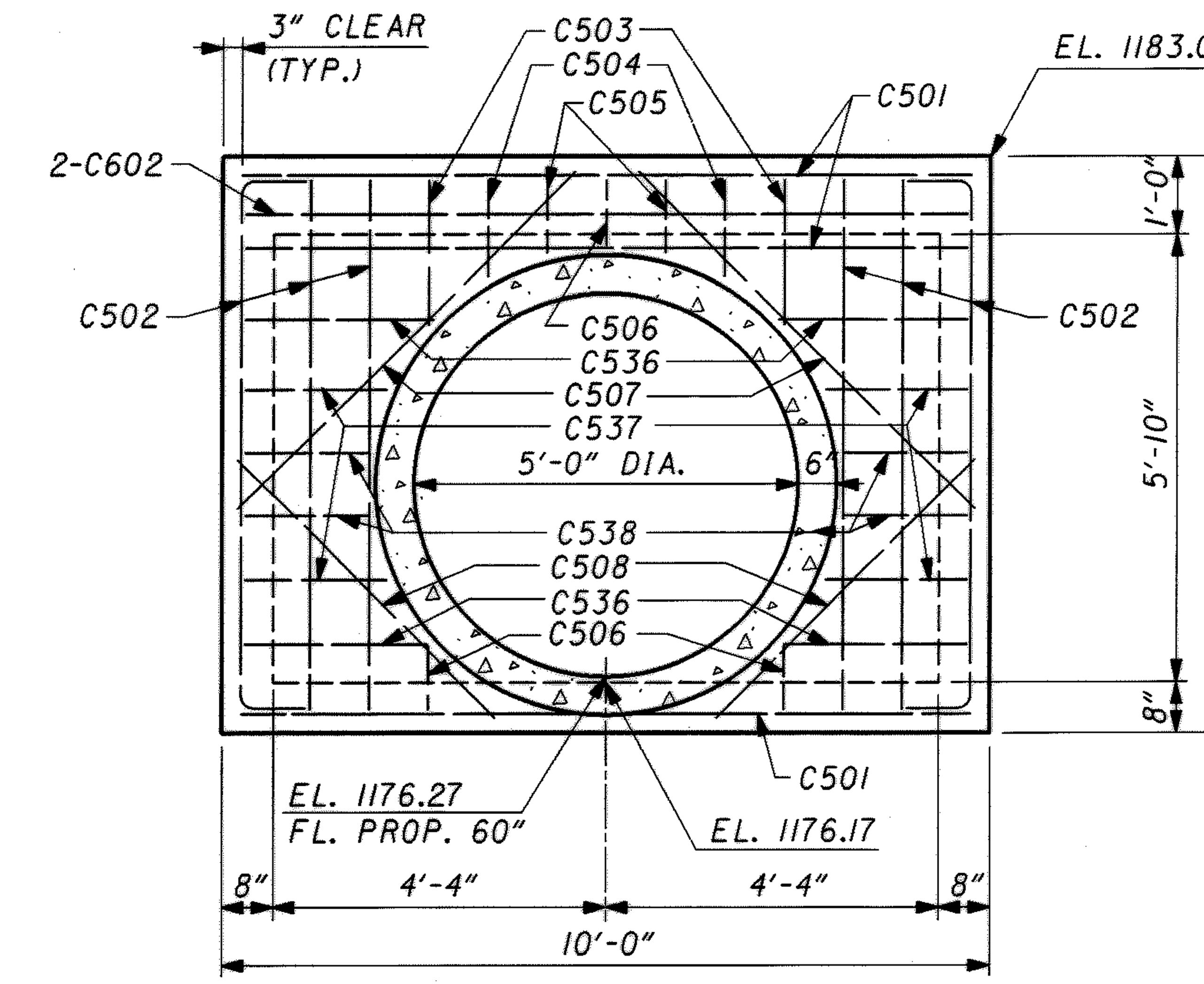
223DDA.DGN 09/11/02 CAR,RC



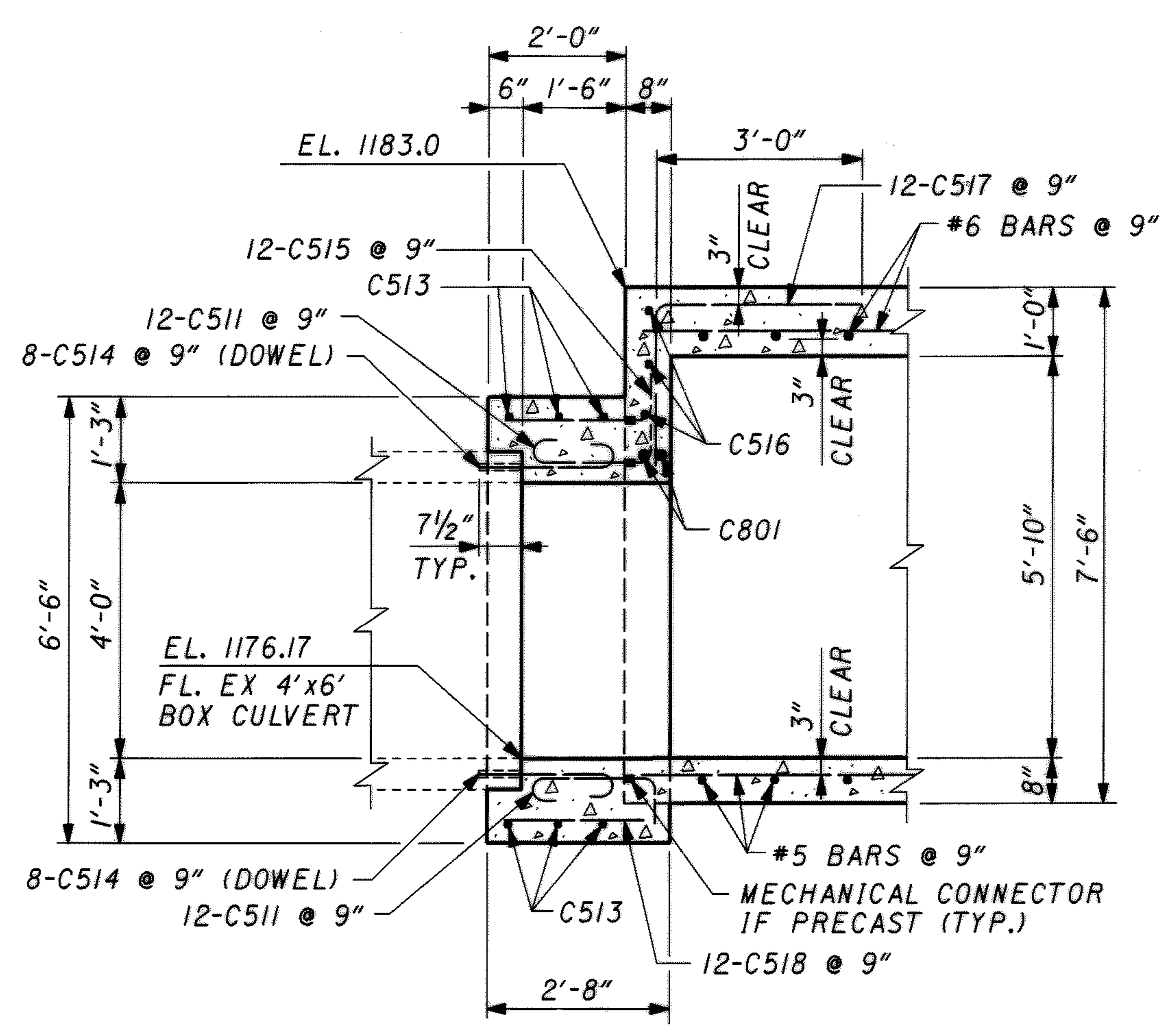
PLAN



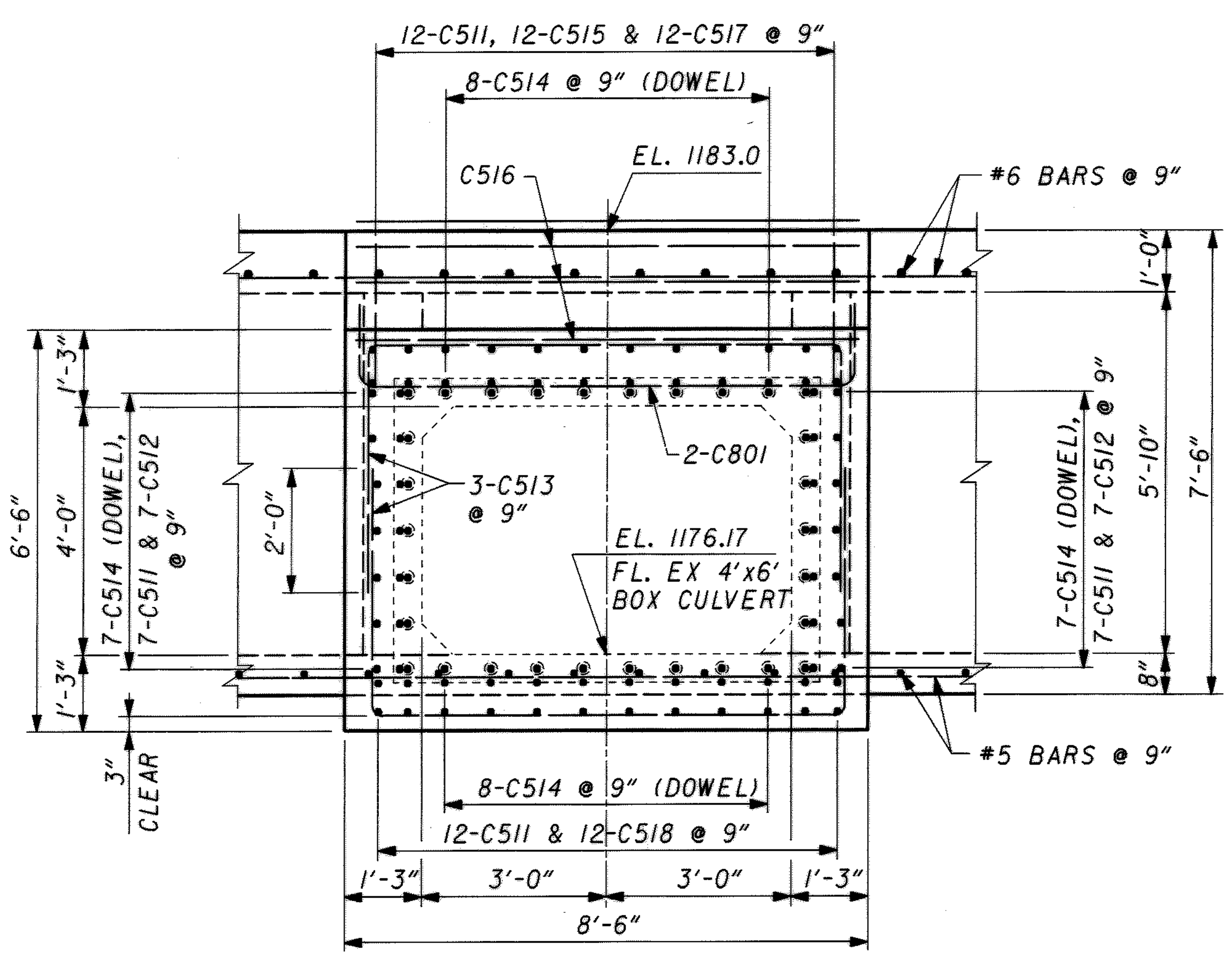
SECTION C-C



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.

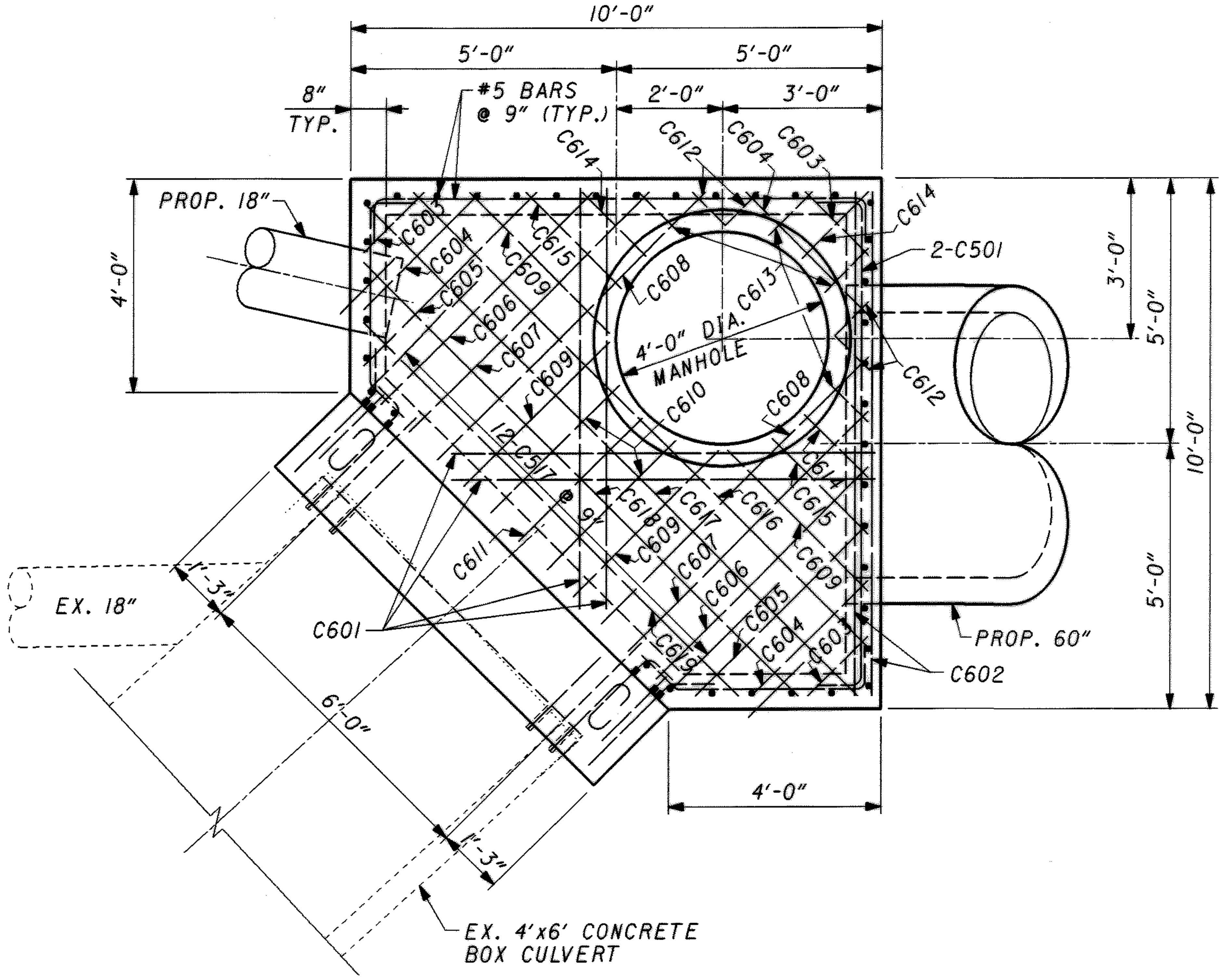
RICHLAND ENGINEERING LIMITED
29 NORTH PARK STREET
MANSFIELD, OHIO 44902

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

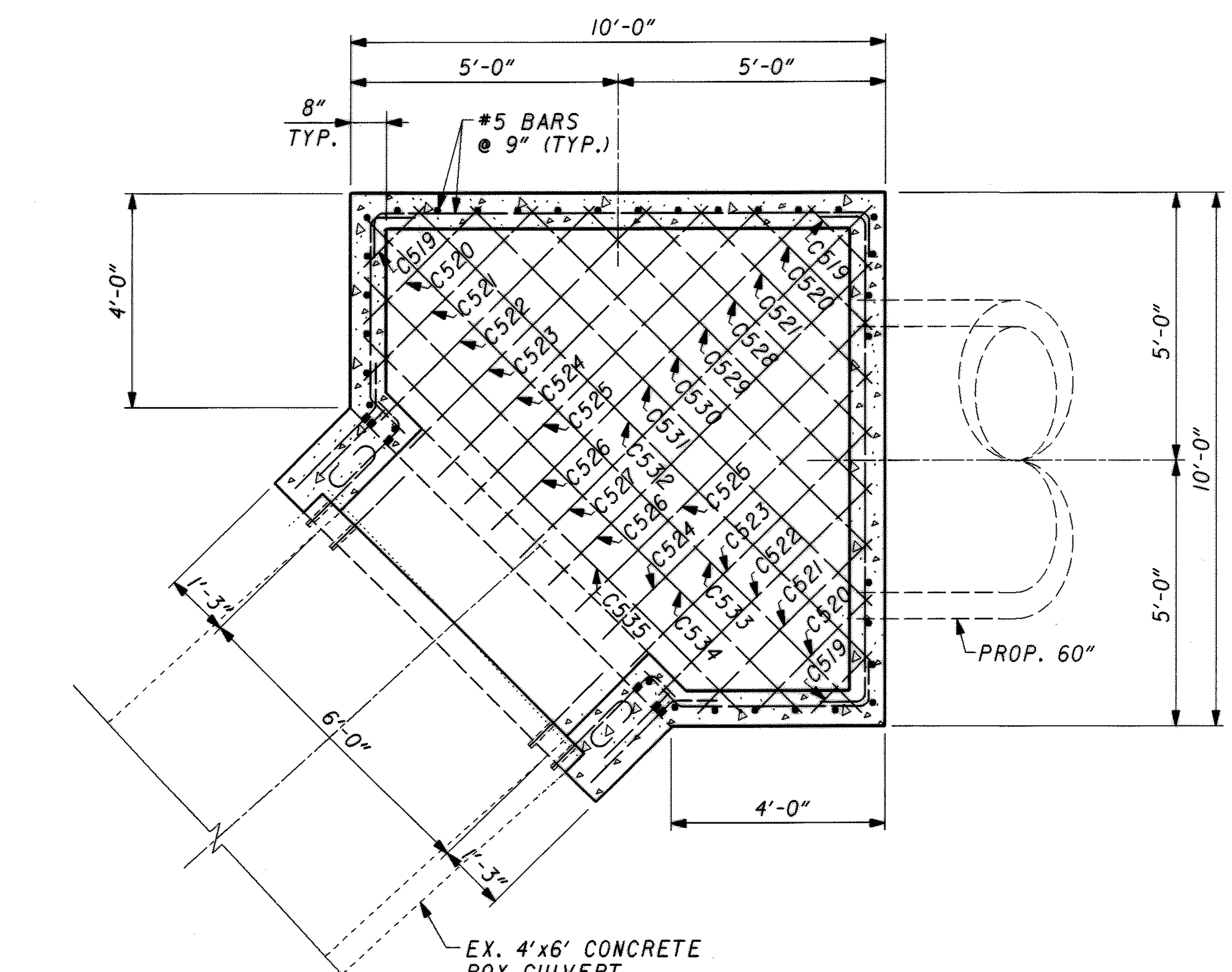
JUNCTION CHAMBER AS PER PLAN DETAILS

MED-3-17.82

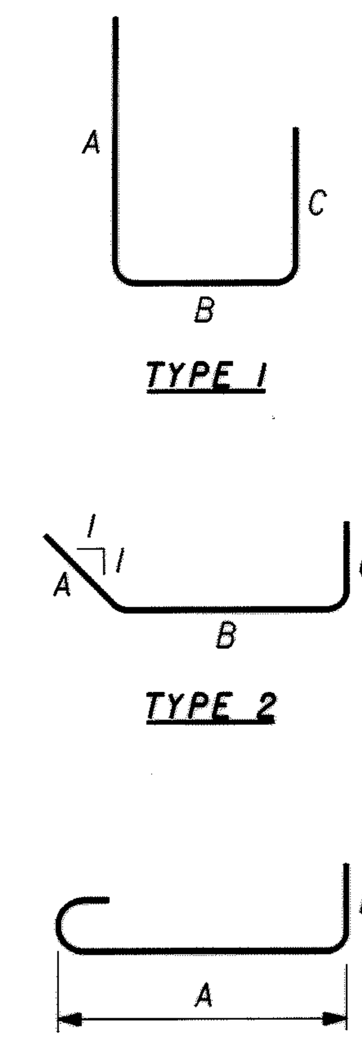
9A-223SAA.DGN 06/12/02 KH,JDY,RC
100223-9A

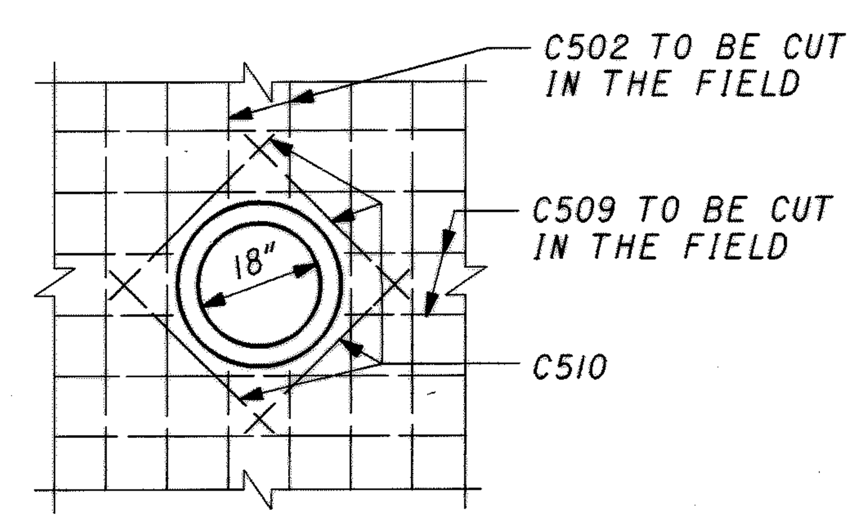


TOP REINFORCING



BOTTOM REINFORCING





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

JUNCTION CHAMBER AS PER PLAN DETAILS

MED-3-17.82

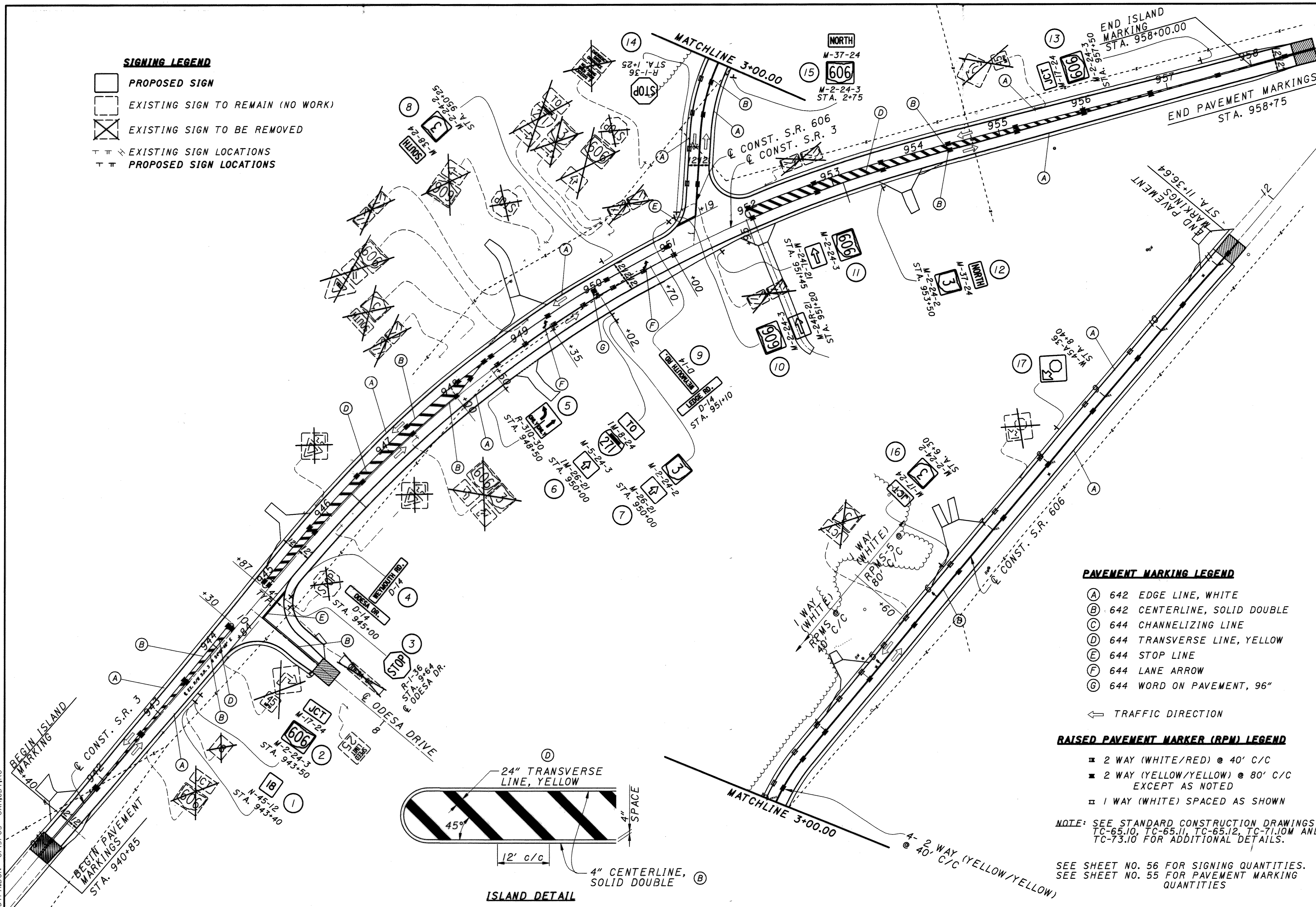
9A-223SAA.DGN 06/12/02 KH,RC

100223-9A

PAVEMENT MARKING AND SIGNING PLAN

SIGNING LEGEND

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



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

MED-3-17.82

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

LOCATION	STATION LIMITS	SIDE	621 RAISED PAVEMENT MARKERS: ONE WAY WHITE	621 RAISED PAVEMENT MARKERS: TWO WAY YELLOW/YELLOW	621 RAISED PAVEMENT MARKERS: TWO WAY WHITE/RED	642 EDGE LINE, WHITE	642 CENTER LINE, SOLID DOUBLE	644 CHANNELIZING, LINE	644 TRANSVERSE LINE, YELLOW	644 STOP LINE	644 LANE ARROW	644 WORD ON PAVEMENT, 96"
			EACH	EACH	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

PAVEMENT MARKING QUANTITIES

MED-3-17.82

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

SIGNING QUANTITIES

REF. NO.	STATION	LOCATION	SIDE	NO. OF SUPPORTS	SIGN SIZE	SIGN SQ. FT.	SIGN CODE NO.	630 GROUND MOUNTED SUPPORT NO. 2 POST	GROUND MOUNTED SUPPORT NO. 3 POST	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
					INCHES			LIN. FT.	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

CALCULATED PDG 4/02 CHECKED TM

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 LEFT	DISTANCE FROM ℄ SURVEY RIGHT	ADJUSTABLE ℄ MONUMENT	RIGHT OF WAY MONUMENT
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

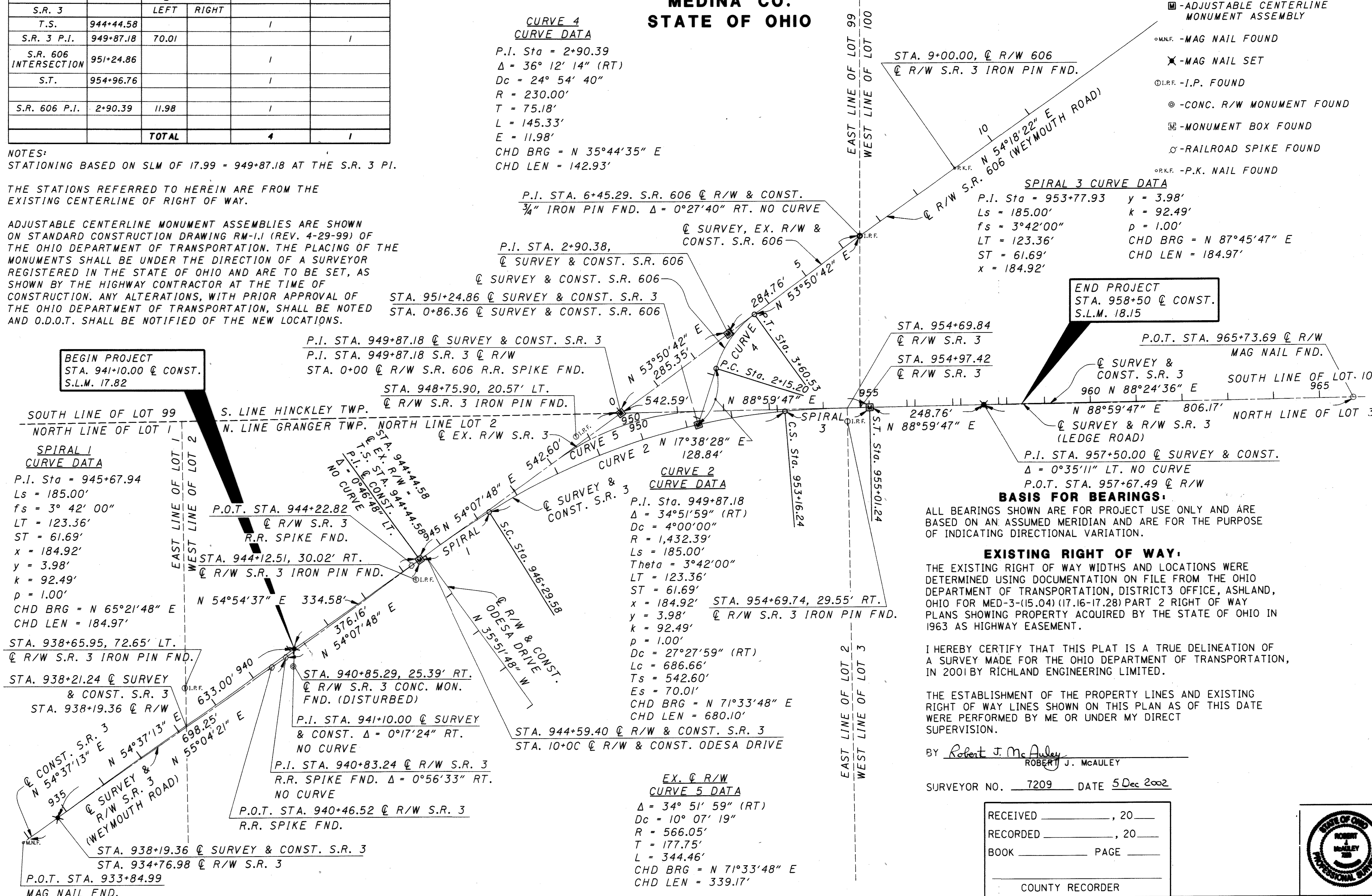
NOTES:
STATIONING BASED ON SLM OF 17.99 = 949+87.18 AT THE S.R. 3 PI.

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 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



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

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

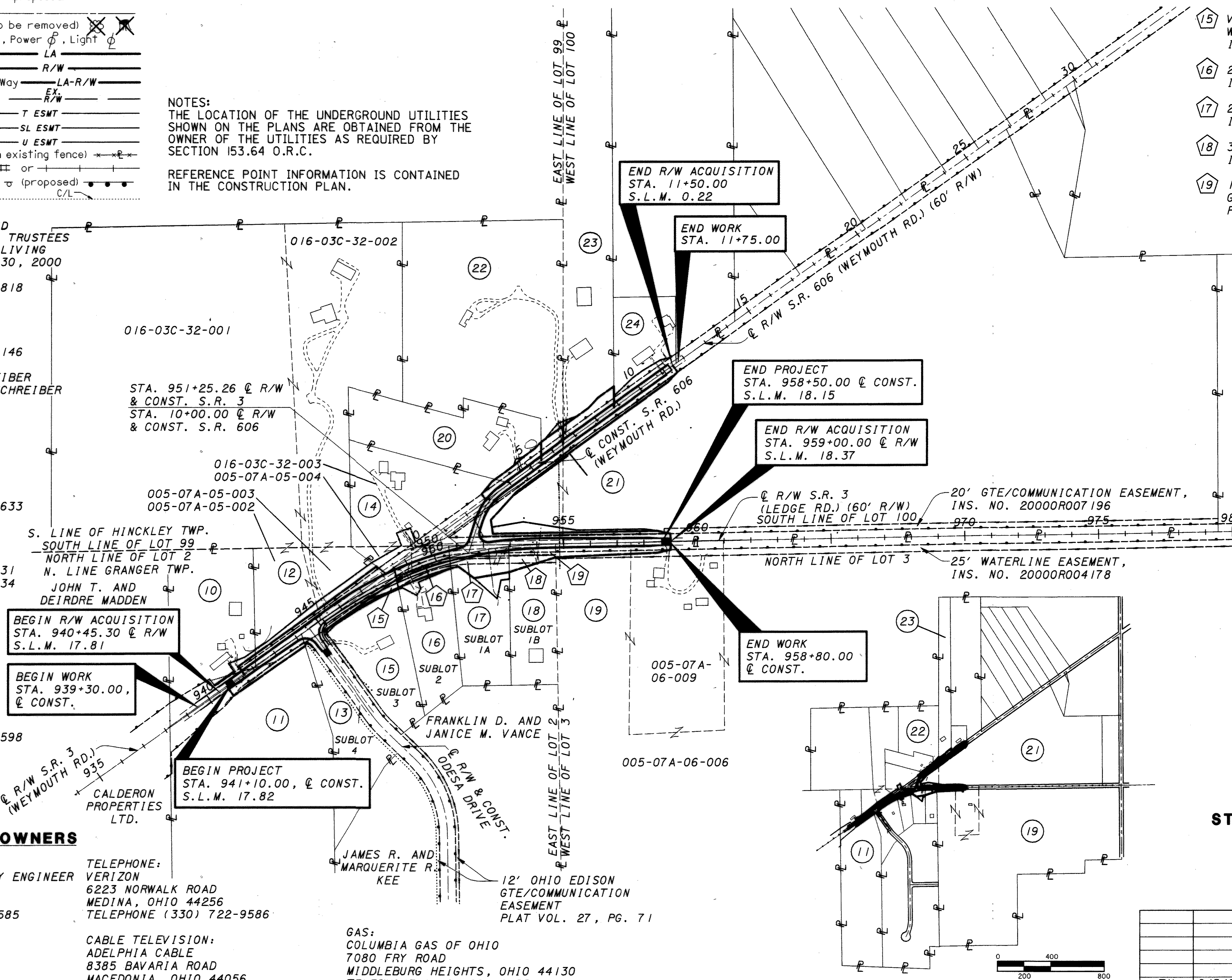
(13) ROMAN V. CREA
005-07A-05-013
INS. NO. 20000R021633

(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

STRUCTURE KEY

RESIDENTIAL
COMMERCIAL

UTILITY OWNERS

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

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

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

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

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

DATE COMPLETED: 12/2/02

PID NO. 21984

R/W DESIGNER BB
R/W REVIEWER RJM

PROPERTY MAP

MED-3-17.82

2 / 10

58 / 66

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

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	OR 2003	OR051155
10T	TRUSTEES UNDER THE GARAPIC	4				———	0.0612	———	0.0612					FOR CONSTRUCTION OF DRIVE & GRADING	OR 2003	051156
	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			OR 051	152
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)	OR 053	676
12WD-1	LYNN PATRICE SCHREIBER	5		005-07A-05-003	1.1060	0.2002	0.2662	0.2002	0.0660						OR 053	677
				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	OR 053	678
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	———	———	———						OR 013	561
			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	OR 013	562
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	2003 OR	066406
15T		5				———	0.0421	———	0.0421					GRADING	2004 OR	[illegible]
															2005 OR	020219
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	OR 052	102
16T		5, 6				———	0.0719	———	0.0719					FOR CONSTRUCTION OF DRIVE & GRADING	OR 052	103
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	OR 051	148
17T		6				———	0.1256	———	0.1256					FOR CONSTRUCTION OF DRIVE	OR 051	149
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	OR 066	441
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)	OR 051	151
19WD-1		7		005-07A-06-009	5.7677	0.2382	0.1336	0.1022	0.0314						OR 051	150
				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)	OR 051	144
20T	ELAINE M. LANG	8				———	0.0075	———	0.0075					FOR CONSTRUCTION OF DRIVE	OR 051	145
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	OR 003	990
21T-1		8, 9				———	0.0284	———	0.0284					GRADING	OR 002	797
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)	OR 051	153
22T	GLORIA J. KROEGER	9				———	0.0236	———	0.0236					FOR CONSTRUCTION OF DRIVE	OR 051	154
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				OR 051	146
23T		9				———	0.0109	———	0.0109					FOR CONSTRUCTION OF DRIVE	OR 051	147
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	OR 037	903

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
TM	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

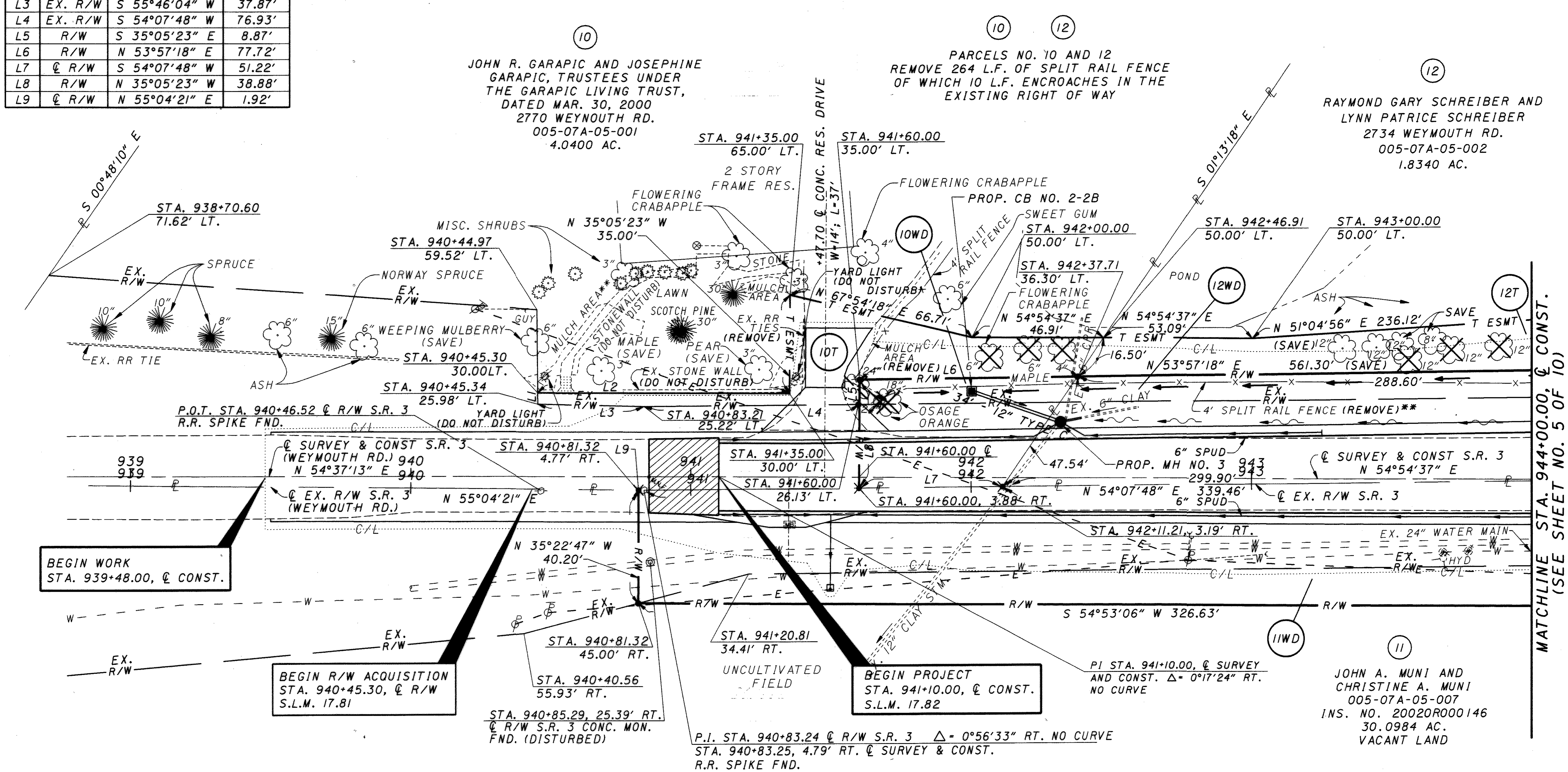
3/10

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. 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.

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

MONUMENT LEGEND

- -3/4" x 30" REBAR WITH 1 1/2" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- -MAG NAIL FOUND
- -MAG NAIL SET
- -I.P. FOUND
- -CONC. R/W MONUMENT FOUND
- -MONUMENT BOX FOUND
- -RAILROAD SPIKE FOUND
- -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

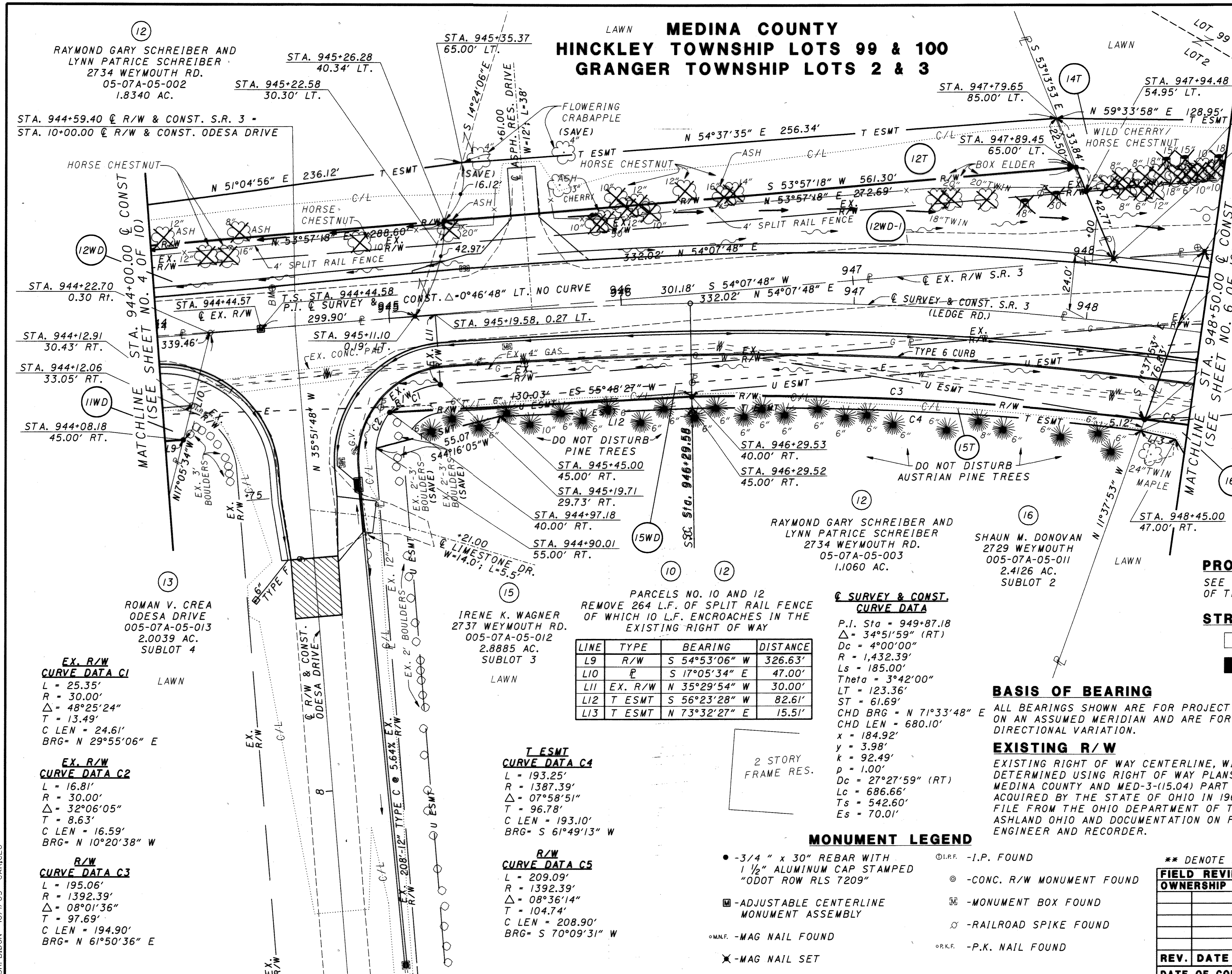
MED-3-17.82

4/10

60/66

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

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



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 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

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. 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.

** DENOTE RIGHT OF WAY ENCROACHMENT

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

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

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. 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.

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

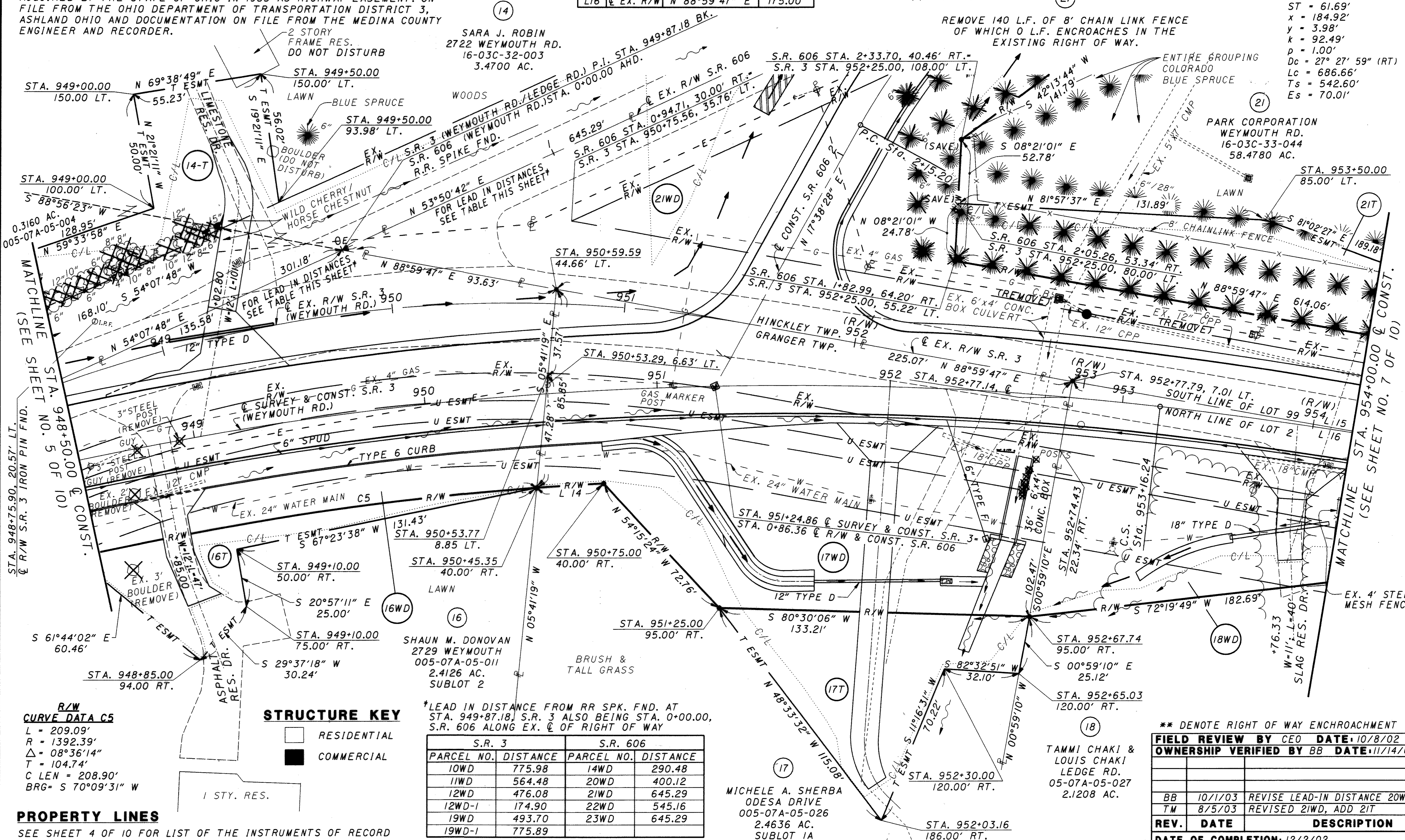
LINE	TYPE	BEARING	DISTANCE
L14	R/W	S 75°03'13" W	28.82'
L15	℄ EX. R/W	S 88°59'47" W	923.85'
L16	℄ EX. R/W	N 88°59'47" E	175.00'

MONUMENT LEGEND

- -3/4" x 30" REBAR WITH 1 1/2" ALUMINUM CAP STAMPED "ODOT ROW RLS 7209"
- -ADJUSTABLE CENTERLINE MONUMENT ASSEMBLY
- MNF -MAG NAIL FOUND
- -MAG NAIL SET
- IPF -I.P. FOUND
- -CONC. R/W MONUMENT FOUND
- -MONUMENT BOX FOUND
- -RAILROAD SPIKE FOUND
- PKF -P.K. NAIL FOUND

℄ SURVEY & CONST. 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'



R/W CURVE DATA C5

L = 209.09'
R = 1392.39'
Δ = 08°36'14"
T = 104.74'
C LEN = 208.90'
BRG = S 70°09'31" W

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL

†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		

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

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

N

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

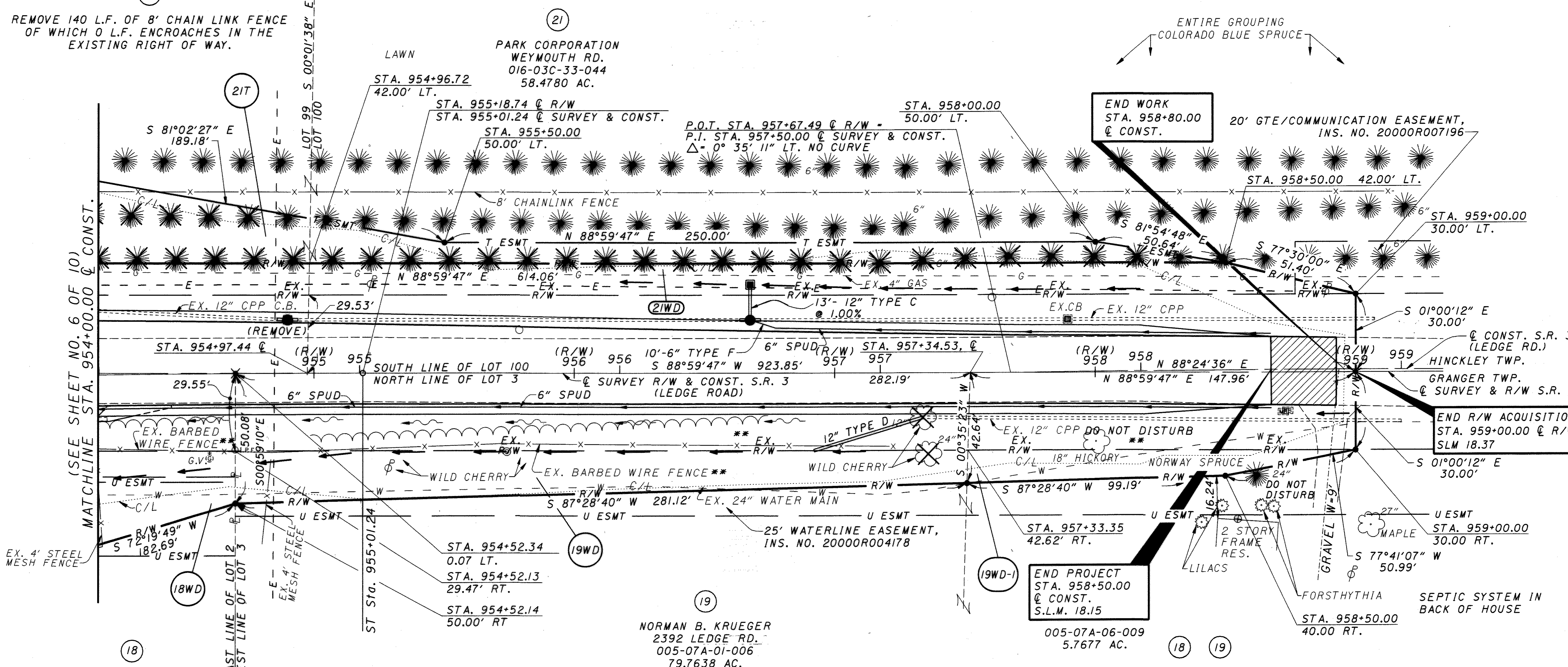
6/10

62/66

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

MED-3-17.82

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



REMOVE 340 L.F. OF BARBED WIRE FENCE OF WHICH 320 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY.

REMOVE 57 L.F. OF EXISTING 4' STEEL MESH FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY.

** DENOTES RIGHT OF WAY ENCHROCHMENTS

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

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

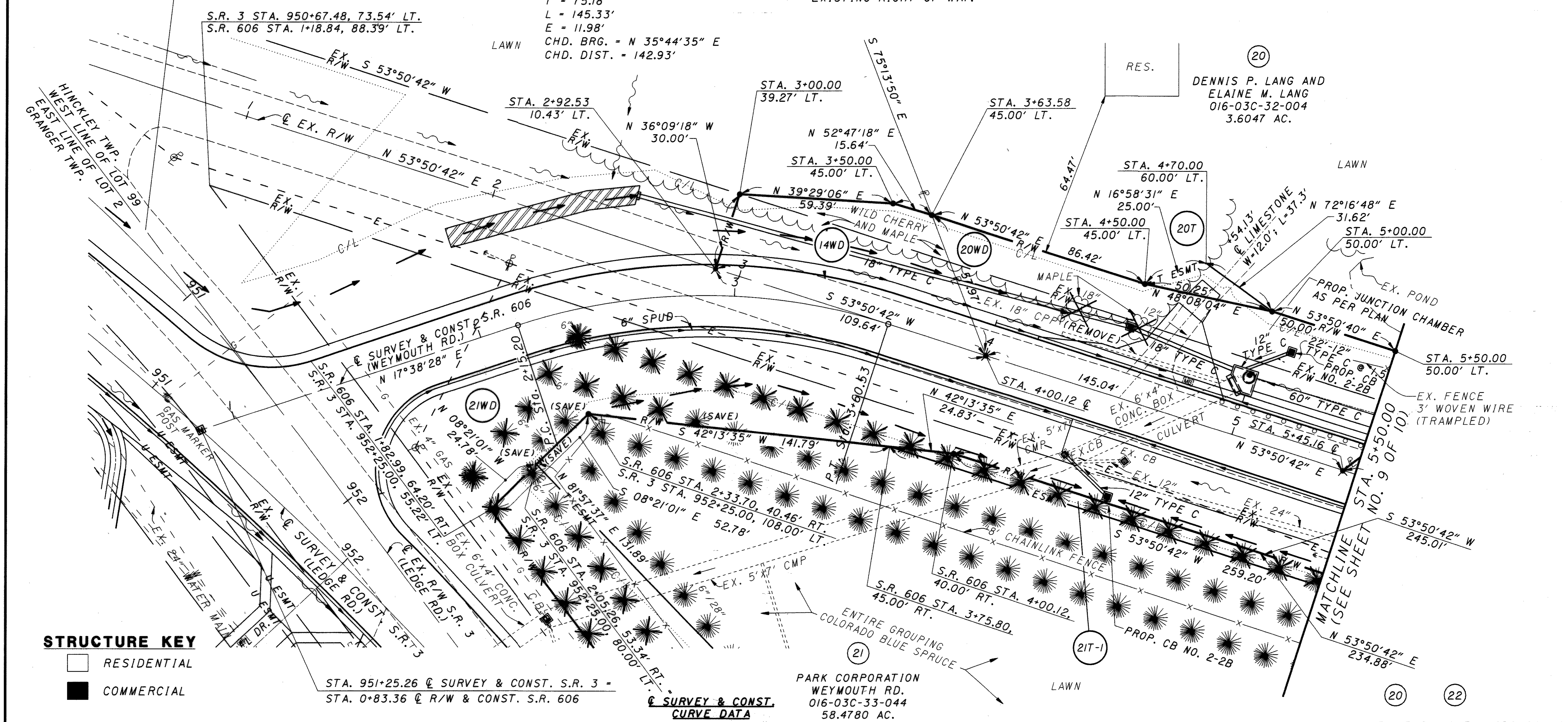
MEDINA COUNTY
HINCKLEY TOWNSHIP LOTS 99 & 100
GRANGER TOWNSHIP LOTS 2 & 3

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

℄ SURVEY & CONST. S.R. 606
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. DIST. = 142.93'



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
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'
CHD BRG = N71°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'

†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

(20) (22)
REMOVE 92' L.F. OF 3' WOVEN WIRE FENCE OF WHICH 0 L.F. ENCROACHES IN THE EXISTING RIGHT OF WAY

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

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

** 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-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. 0+83.36 TO STA. 5+50.00

MED-3-17.82

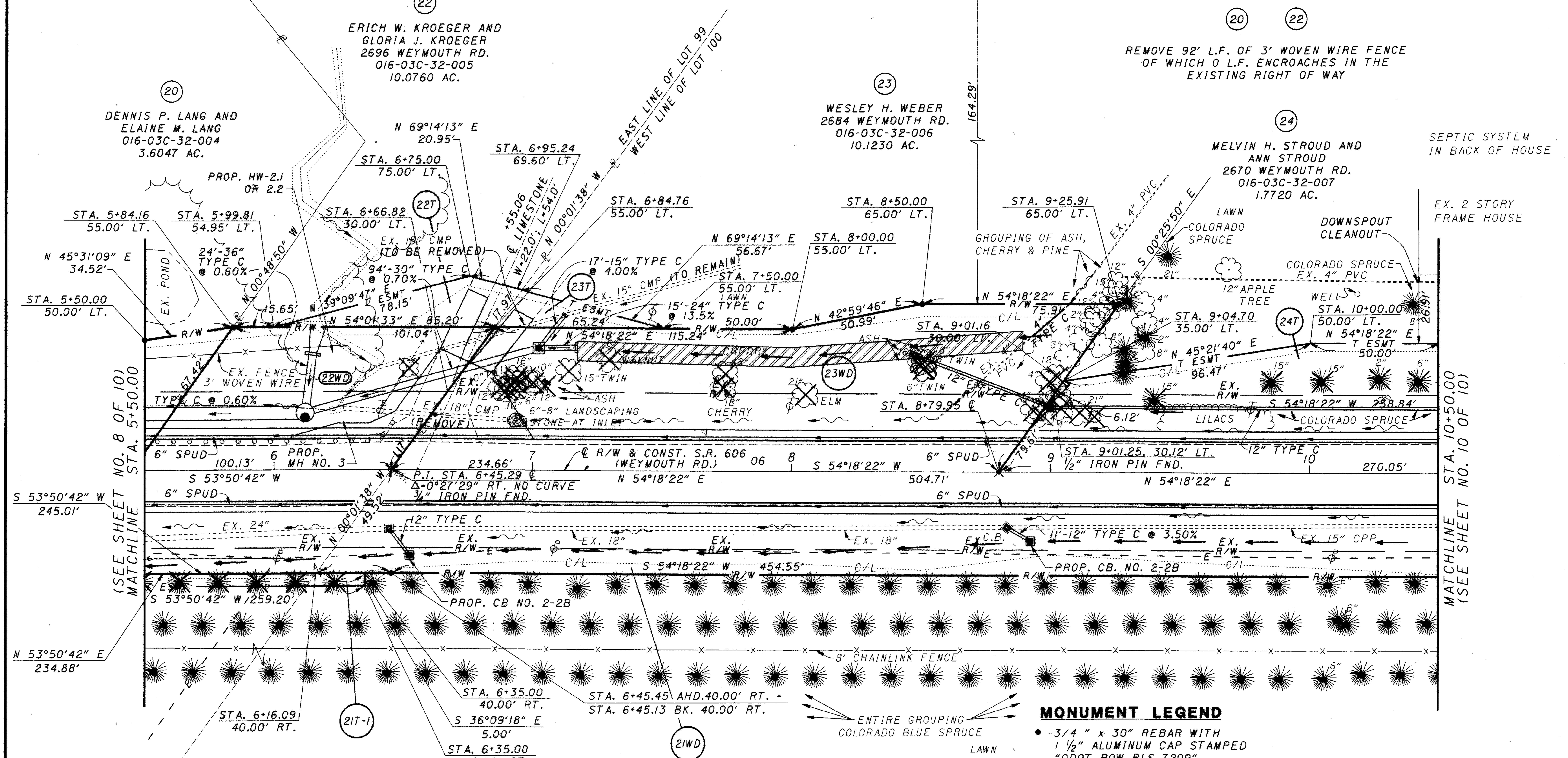
8/10

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



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

** DENOTES RIGHT OF WAY ENCHROACHMENT

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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 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

** 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

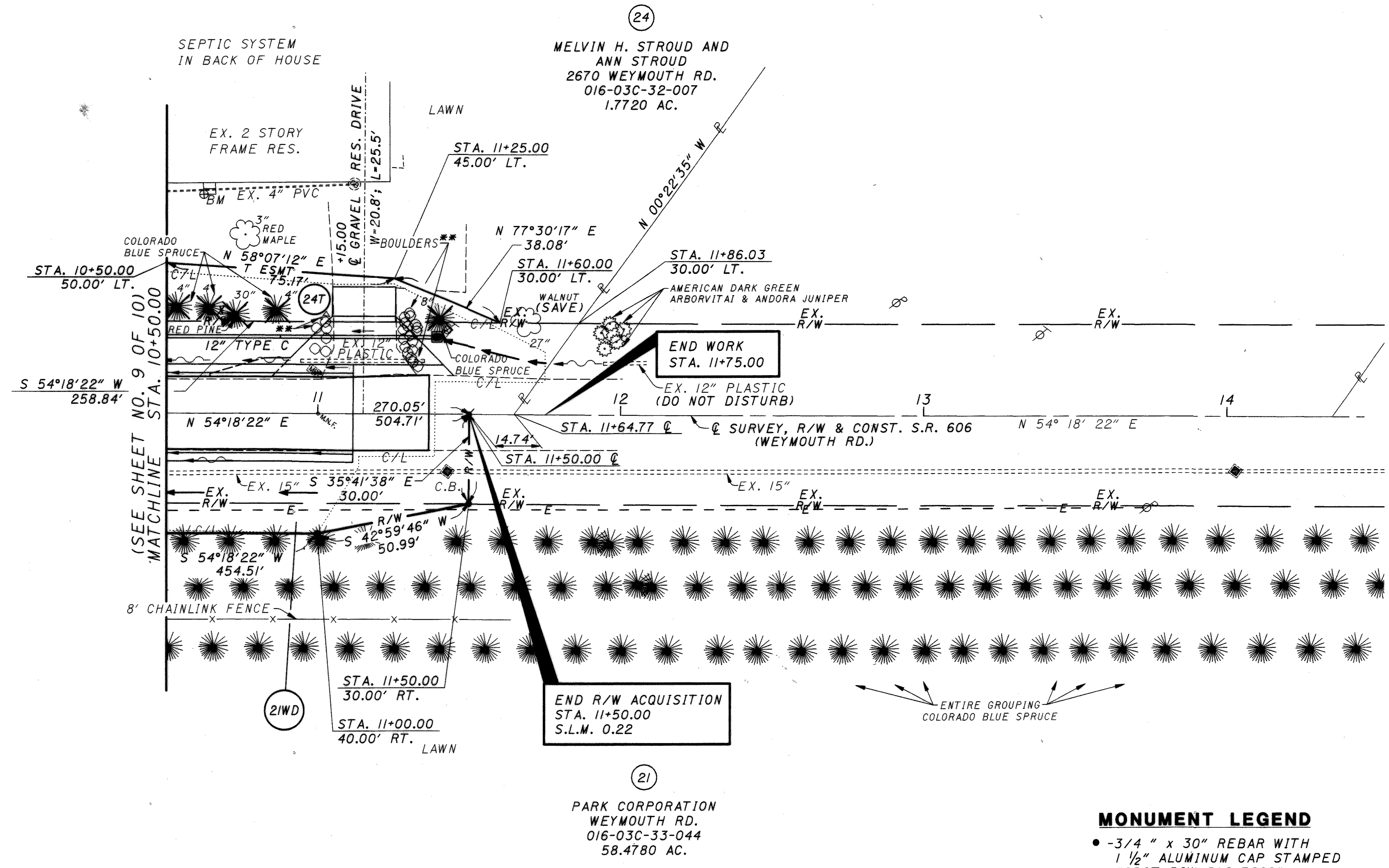
PID NO. 21984

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

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



** DENOTES RIGHT OF WAY ENCHROACHMENTS

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.

PROPERTY LINES

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

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** DENOTE RIGHT OF WAY ENCHROACHMENT

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

REV.	DATE	DESCRIPTION
TM	8/5/03	REVISE 21WD

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. 10+50.00 TO STA. 14+00.00

MED-3-17.82

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

MED-3-17.82

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 MISSISSIPPIAN-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.

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

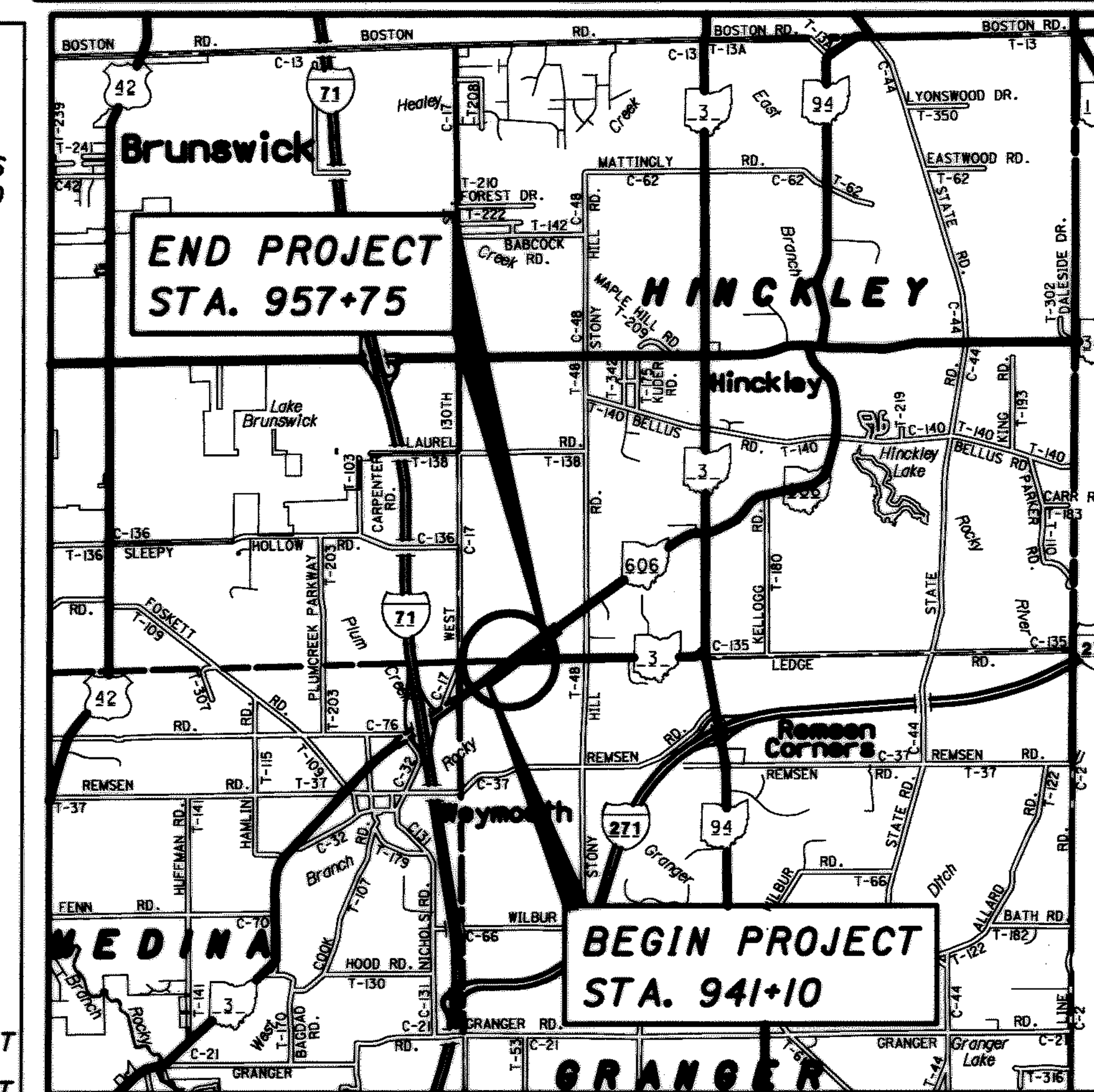
* DENOTES SILT AND CLAY COMBINED

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
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
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

N

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

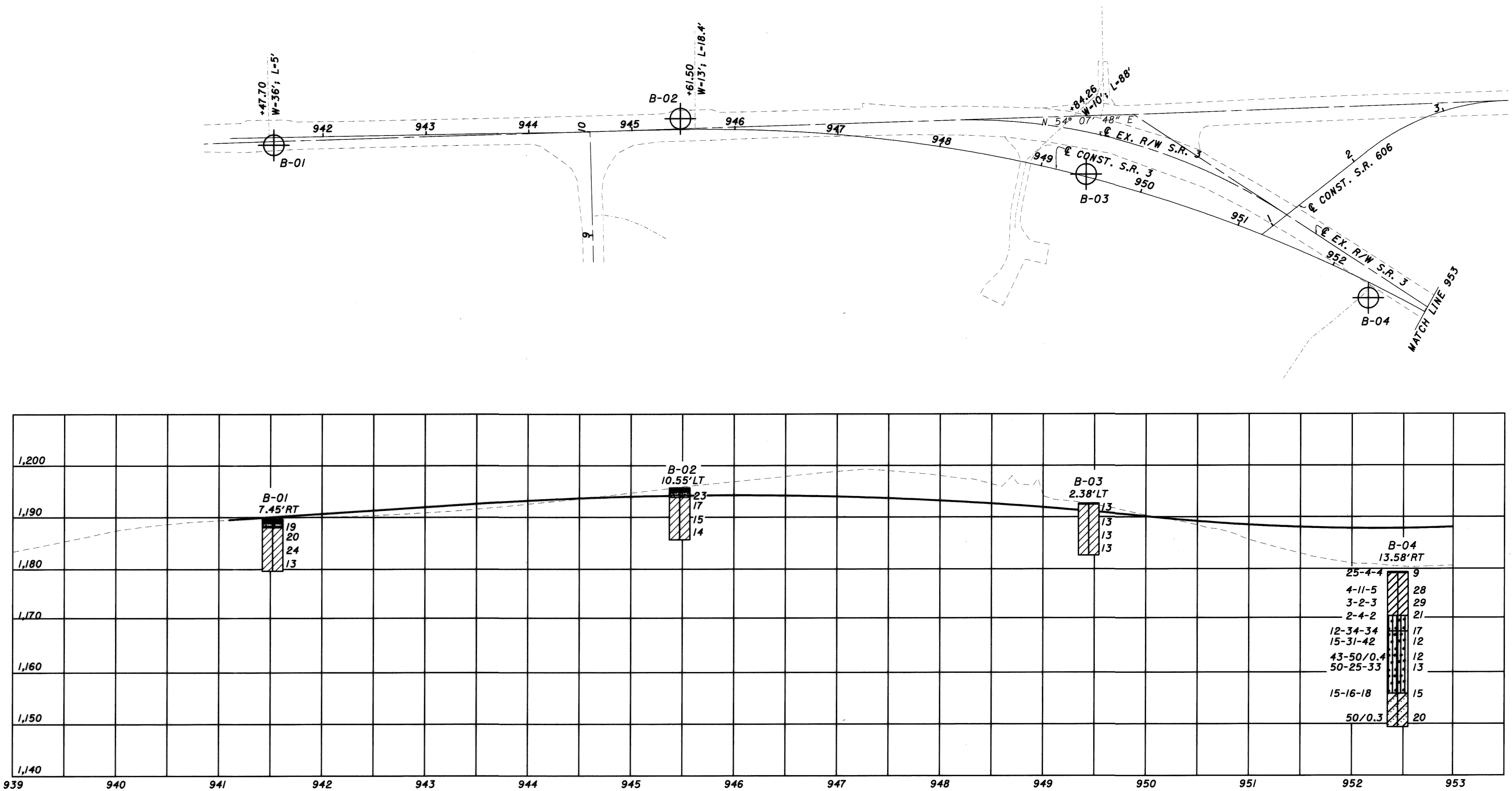
PRIME ENGINEERING & ARCHITECTURE, INC.

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

SOIL PROFILE

MEDINA COUNTY MED-3-18.19

1/5

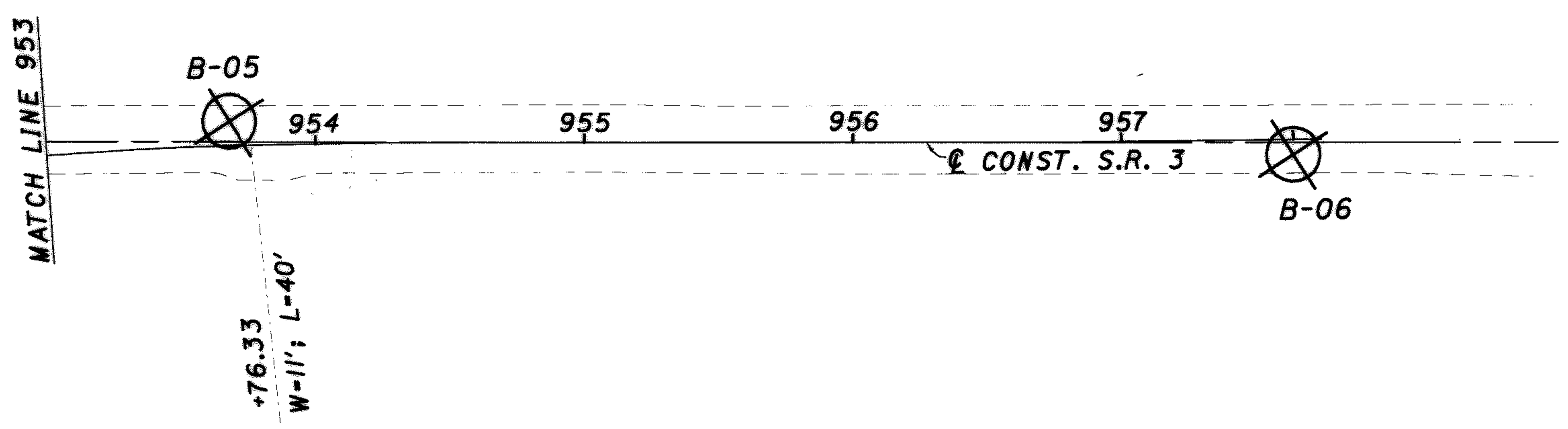


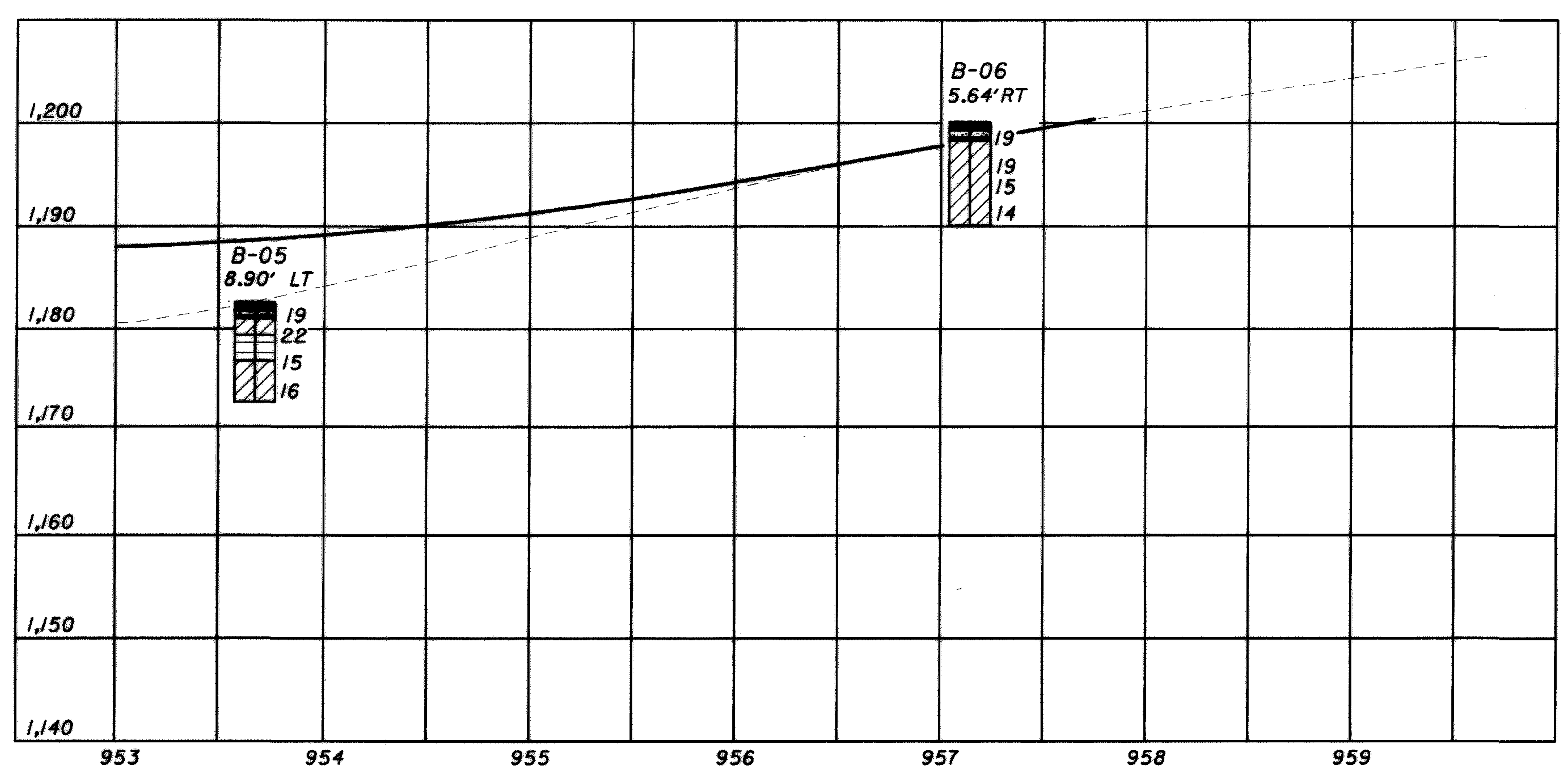
0' 10' 20' 40'
HORIZONTAL SCALE IN FEET

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

SOIL PROFILE

MEDINA COUNTY
MED-3-18.19





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

CALCULATED	CHECKED
WIN	SSS

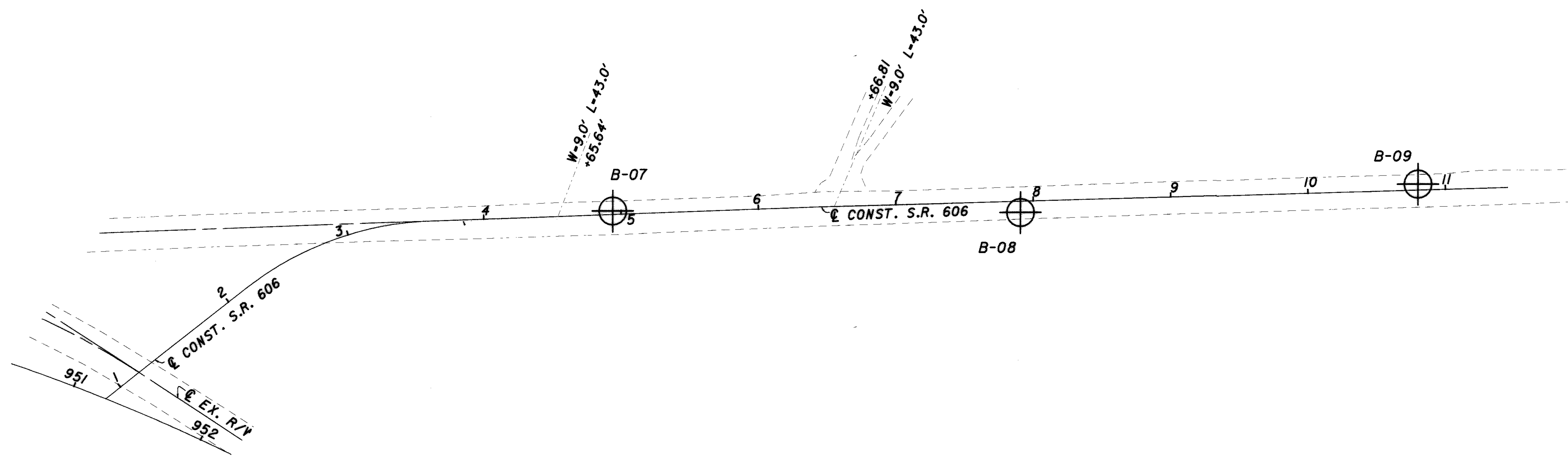
DATE	
04/01/02	

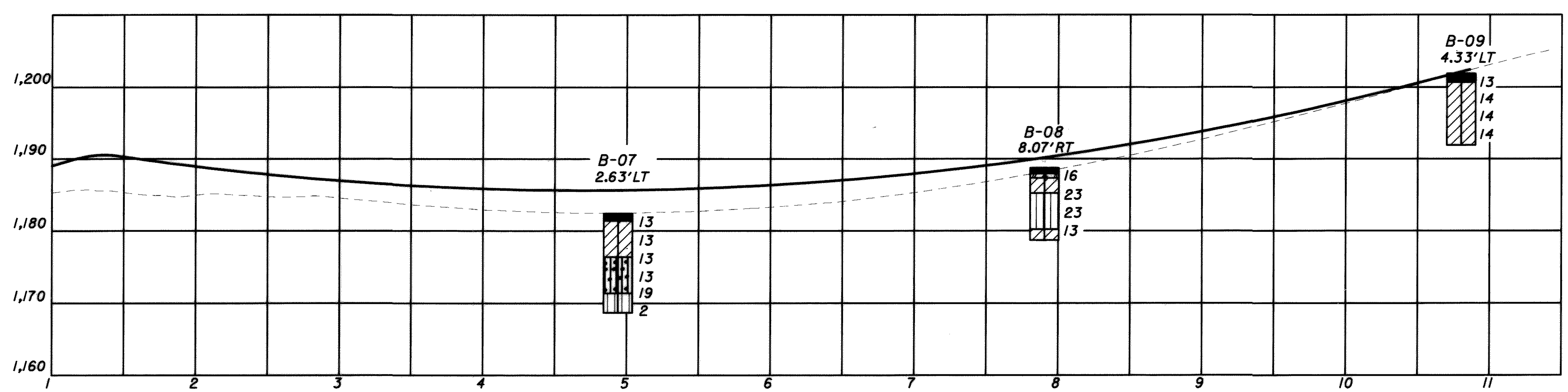
REVIEWED	
SM	

DRAWN	
BM	

SOIL PROFILE

MEDINA COUNTY
MED-3-18.19





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

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	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	10	2 - 4 - 2			Loose, gray GRAVEL AND ROCK FRAGMENTS WITH SAND AND SILT (A-2-4), wet. (fill) Note: Wet at 10.5 feet upon completion of drilling.	4	39	15	15	--	32 *	31	10	21	A-2-4
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.

PRIME ENGINEERING & ARCHITECTURE, INC.

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

SOIL PROFILE

MEDINA COUNTY
MED-3-18.19