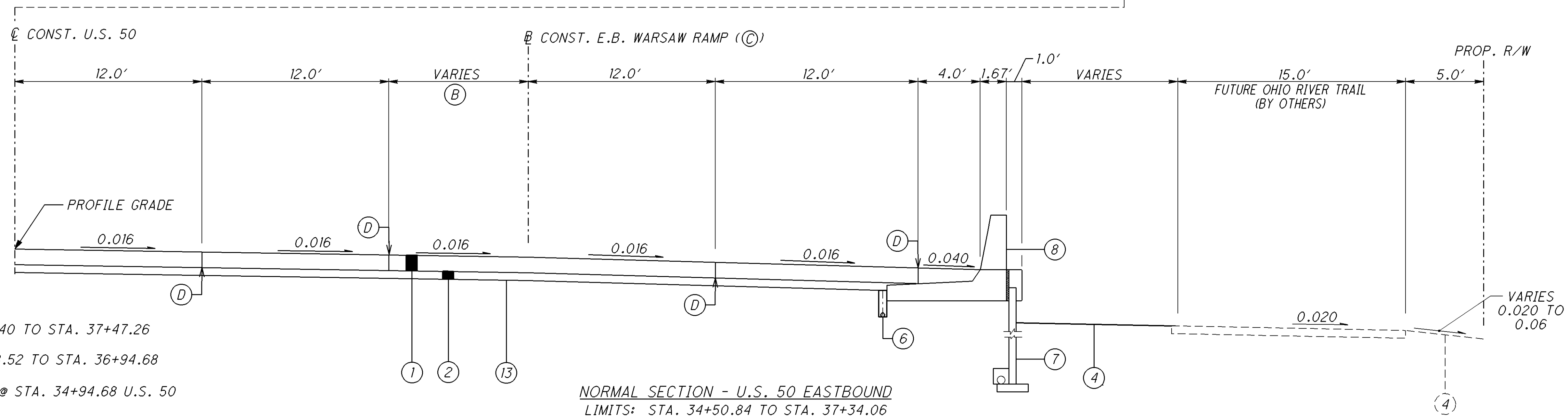
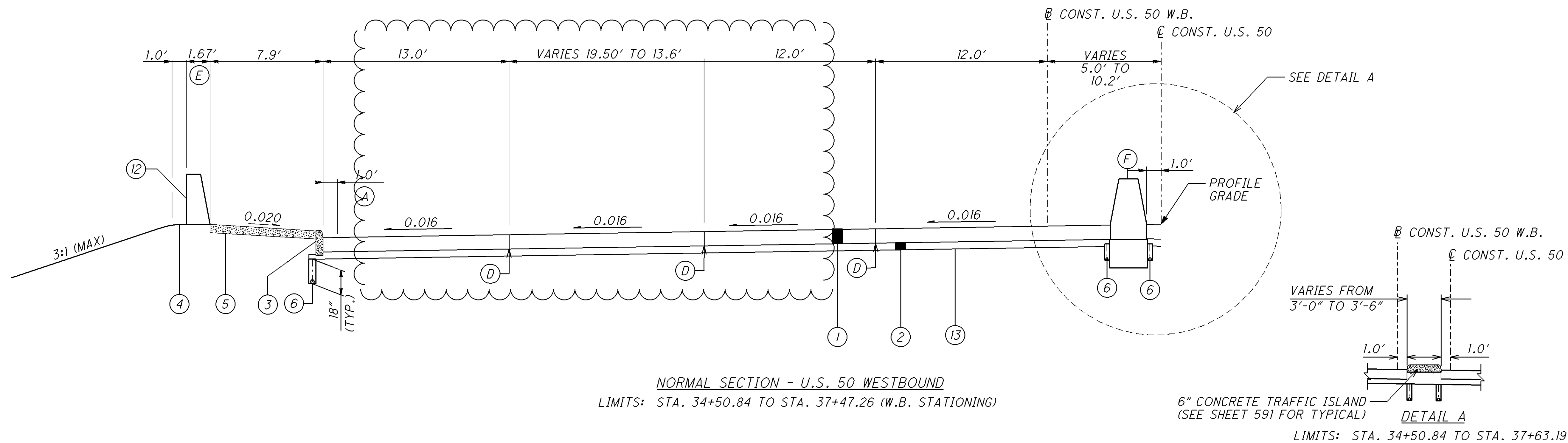


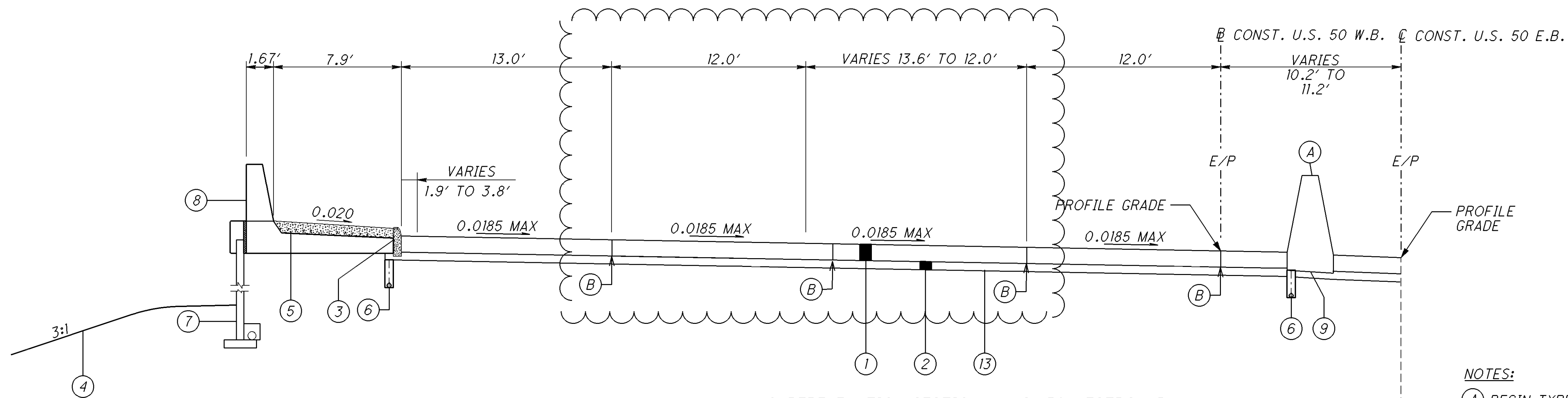


NOTES:

- (A) VARIES 1.0' TO 1.9' STA. 35+98.40 TO STA. 37+47.26
- (B) VARIES 4.0' TO 0.0' STA. 34+88.52 TO STA. 36+94.68
- (C) END B FOR E.B. WARSAW RAMP @ STA. 34+94.68 U.S. 50
- (D) LONGITUDINAL JOINT PER BP-2.1
- (E) BEGIN BARRIER AT STA. 35+73.38.
- (F) MEDIAN BARRIER AND FOUNDATION STA. 37+63.19 TO STA. 38+77.00 (SEE SHEET 591 FOR TYPICAL SECTIONS)

- (1) ITEM 305 - 12" CONCRETE PAVEMENT
- (2) ITEM 304 - 6" AGGREGATE BASE
- (3) ITEM 609 - CURB, TYPE 6
- (4) ITEM 659 - SEEDING AND MULCHING
- (5) ITEM 608 - 5" CONCRETE WALK
- (6) ITEM 605 - 6" BASE PIPE UNDERDRAINS
- (7) ITEM 840 - MECHANICALLY STABILIZED EARTH WALL
- (8) ITEM 622 - CONCRETE BARRIER, TYPE D (MOUNTED ON MOMENT SLAB)

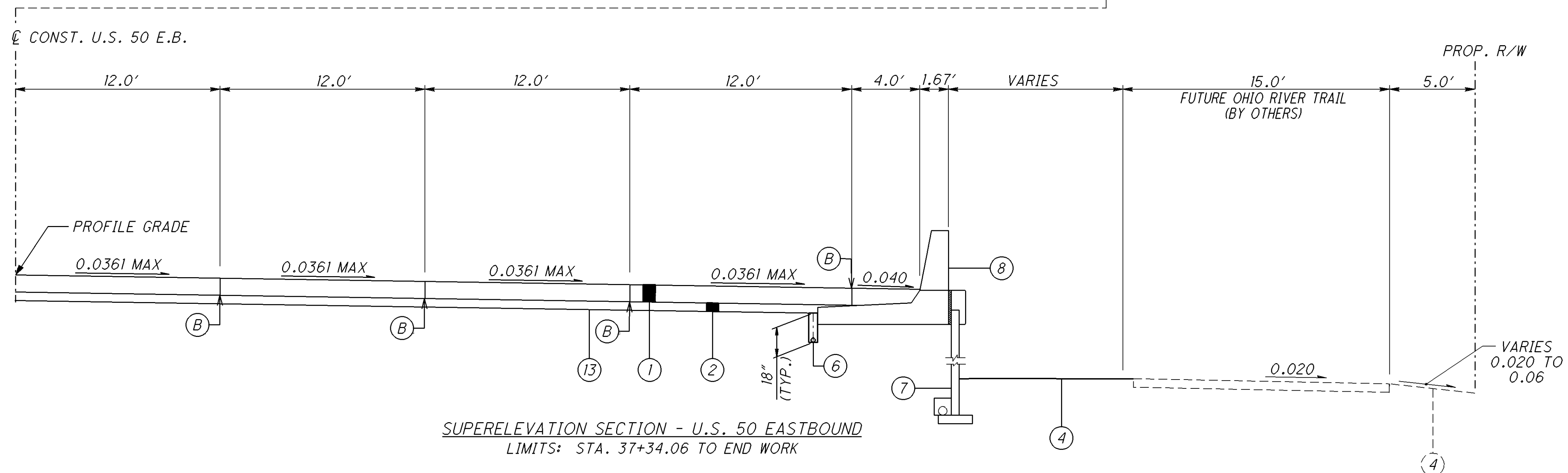
- (9) ITEM 622 - CONCRETE BARRIER, TYPE C1
- (10) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=17")
- (11) ITEM 606 - GUARDRAIL, TYPE 5
- (12) ITEM 622 - CONCRETE BARRIER, TYPE D
- (13) ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING



SUPERELEVATION SECTION - U.S. 50 WESTBOUND
LIMITS: STA. 37+47.26 TO END WORK (W.B. STATIONING)

NOTES:

- (A) BEGIN TYPE C1 MEDIAN BARRIER STA 38+77.00
(SEE SHEETS 9 AND 591 FOR TYPICAL SECTIONS)
- (B) LONGITUDINAL JOINT PER BP-2.1



SUPERELEVATION SECTION - U.S. 50 EASTBOUND
LIMITS: STA. 37+34.06 TO END WORK

- (1) ITEM 305 - 12" CONCRETE PAVEMENT
- (2) ITEM 304 - 6" AGGREGATE BASE
- (3) ITEM 609 - CURB, TYPE 6
- (4) ITEM 659 - SEEDING AND MULCHING
- (5) ITEM 608 - 5" CONCRETE WALK
- (6) ITEM 605 - 6" BASE PIPE UNDERDRAINS
- (7) ITEM 840 - MECHANICALLY STABILIZED EARTH WALL
- (8) ITEM 622 - CONCRETE BARRIER, TYPE D (MOUNTED ON MOMENT SLAB)

- (9) ITEM 622 - CONCRETE BARRIER, TYPE C1
- (10) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=17")
- (11) ITEM 606 - GUARDRAIL, TYPE 5
- (12) ITEM 622 - CONCRETE BARRIER, TYPE D
- (13) ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

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SHEET NUMBER														ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED AWS	CHECKED MAH
21	22	23	87	88	89	90	91	92	93	94	191	192	194								
								LUMP						201	11000	LUMP		ROADWAY			
			15256		6476		6685		10617					202	23000	39034	SQ YD	CLEARING AND GRUBBING			
			23003		8385		11023		12747					202	30000	55158	SQ FT	PAVEMENT REMOVED			
			22				47							202	30200	69	FT	WALK REMOVED			
								LUMP						202	30204	LUMP		STEPS REMOVED			
			6986		2791		3046		2443					202	32000	15266	FT	STEPS REMOVED			
													3553	202	35100	3553	FT	CURB REMOVED			
													373	202	35200	373	FT	PIPE REMOVED, 24" AND UNDER			
													28	202	58000	28	EACH	PIPE REMOVED, OVER 24"			
													100	202	58100	100	EACH	MANHOLE REMOVED			
														202	58100	100	EACH	CATCH BASIN REMOVED			
													23	202	58700	23	EACH	MANHOLE ABANDONED			
		5												202	66500	5	EACH	UNDERGROUND STORAGE TANK REMOVED			
			443		132				143					202	75000	718	FT	FENCE REMOVED			
									210					202	98000	LUMP		REMOVAL MISC.: STORMWATER DIVERSION CHAMBER	195		
														202	98200	210	FT	REMOVAL MISC.: WALL REMOVED			
								10972						203	10000	10972	CU YD	EXCAVATION			
								65442						203	20000	65442	CU YD	EMBANKMENT			
			25371		5025		8989		4170					204	10000	43555	SQ YD	SUBGRADE COMPACTION			
								4246		1108				204	13000	5354	CU YD	EXCAVATION OF SUBGRADE			
								4246		1108				204	30020	5354	CU YD	GRANULAR MATERIAL, TYPE C			
40														204	45000	40	hour	PROOF ROLLING			
										3325				204	50000	3325	SQ YD	GEOTEXTILE FABRIC			
			146					229						606	13000	375	FT	GUARDRAIL, TYPE 5			
			2											606	22000	2	EACH	ANCHOR ASSEMBLY, TYPE B-98			
								1						606	22010	1	EACH	ANCHOR ASSEMBLY, TYPE E-98			
				4		4								606	26500	8	EACH	ANCHOR ASSEMBLY, TYPE T			
								1						606	35100	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2			
			2					2						606	35140	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4			
				20540		7156		9680	9545					608	12000	46921	SQ FT	5" CONCRETE WALK			
						45			40					608	40000	85	FT	CONCRETE STEPS, TYPE A			
				804		300		215	687					608	52000	2006	SF	CURB RAMP			
								25						622	10060	25	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B			
				34				29						622	10140	62	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1			
				149										622	10160	149	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D			
								1						622	25000	3	EACH	CONCRETE BARRIER, END SECTION, TYPE D			
								1						622	25052	3	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D			
														653	10000	315	CU YD	TOPSOIL FURNISHED AND PLACED			
			315											690	98400	LUMP		SPECIAL - MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	21		
			LUMP											690	98400	LUMP		SPECIAL - MISC.: CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST (CAHES) INSPECTION SERVICES	22		
														878	25000	LUMP		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	1		
																		EROSION CONTROL			
											93			601	32204	93	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER			
														659	00100	2	EACH	SOIL ANALYSIS TEST			
														659	10000	26396	SQ YD	SEEDING AND MULCHING			
														659	14000	1400	SQ YD	REPAIR SEEDING AND MULCHING			
														659	15000	1000	SQ YD	INTER-SEEDING			
														659	20000	4	TON	COMMERCIAL FERTILIZER			
														659	31000	6	ACRE	LIME			
														659	35000	0.2	M GAL	WATER			
														659	40000	0.3	M SQ FT	MOWING			
											453			670	00700	453	SQ YD	DITCH EROSION PROTECTION			
											0.21			602	20000	0.21	CU YD	CONCRETE MASONRY			
												62		603	00900	62	FT	6" CONDUIT, TYPE B			
											300			603	00901	300	FT	6" CONDUIT, TYPE B, AS PER PLAN	21		
											33			603	01801	33	FT	8" CONDUIT, TYPE B, AS PER PLAN	195		
											2656			603	04400	2656	FT	12" CONDUIT, TYPE B			
											786			603	04401	786	FT	12" CONDUIT, TYPE B, 706.02, AS PER PLAN	195		
											20			603	04401	20	FT	12" CONDUIT, TYPE B, 707.01, AS PER PLAN	195		
											392			603	04408	392	FT	12" CONDUIT, TYPE B, 748.01, AS PER PLAN	195		

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SHEET NUMBER										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED AWS	CHECKED MAH
	191	192			599												
														DRAINAGE (CONT.)			
	828									603	04600	828	FT	12" CONDUIT, TYPE C			
	389									603	05900	389	FT	15" CONDUIT, TYPE B			
	102									603	05901	102	FT	15" CONDUIT, TYPE B, AS PER PLAN	195		
	15									603	06100	15	FT	15" CONDUIT, TYPE C			
	346									603	07400	346	FT	18" CONDUIT, TYPE B			
	789									603	07401	789	FT	18" CONDUIT, TYPE B, 706.02, AS PER PLAN	195		
	133									603	07600	133	FT	18" CONDUIT, TYPE C			
	1074									603	10400	1074	FT	24" CONDUIT, TYPE B			
	384									603	10401	384	FT	24" CONDUIT, TYPE B, 706.02, AS PER PLAN	195		
	355									603	10600	355	FT	24" CONDUIT, TYPE C			
	243									603	13400	243	FT	30" CONDUIT, TYPE B			
	404									603	13401	404	FT	30" CONDUIT, TYPE B, 706.02, AS PER PLAN	195		
	110									603	97011	110	FT	12" SLOTTED DRAIN, TYPE 2, AS PER PLAN	369		
	47									604	00400	47	EACH	CATCH BASIN NO. 3			
	20									604	00800	20	EACH	CATCH BASIN NO. 3A			
	4									604	02000	4	EACH	CATCH BASIN NO. 6			
	7									604	04100	7	EACH	CATCH BASIN NO. 2-2A			
	6									604	04500	6	EACH	CATCH BASIN NO. 2-2B			
	2									604	04900	2	EACH	CATCH BASIN NO. 2-3			
	2									604	09500	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE			
	1									604	15151	1	EACH	INLET, NO. 3D, AS PER PLAN	21		
	1									604	11700	1	EACH	INLET, NO. 2-10			
	48									604	31500	48	EACH	MANHOLE NO. 3			
	1									604	32100	1	EACH	MANHOLE NO. 5			
	1									604	32500	1	EACH	MANHOLE, MISC. RECONSTRUCT REGULATION CHAMBER TO GRADE	21		
	2									604	32500	2	EACH	MANHOLE, MISC. EXTEND SLUICE GATE CONTROL STEM	21		
	13									604	34500	13	EACH	MANHOLE ADJUSTED TO GRADE			
	40									604	35500	40	EACH	MANHOLE RECONSTRUCTED TO GRADE			
										605	14000	8887	FT	6" BASE PIPE UNDERDRAINS			
										605	13300	38	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	192		
														WATER WORK			
					600					202	98200	600	FT	REMOVAL MISC.: STREET CAR RAILS REMOVED			
					7874					509	25000	7874	POUND	REINFORCING STEEL			
					1					602	98200	1	CU YD	MASONRY, MISC.: BRICK MASONRY			
					9					604	34501	9	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN			
					1					638	11500	1	MBF	SHEETING AND BRACING ORDERED LEFT IN PLACE			
					20					638	80500	20	FT	SPECIAL - FURNISHING AND LAYING 4" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					232					638	80600	232	FT	SPECIAL - FURNISHING AND LAYING 6" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					459					638	80700	459	FT	SPECIAL - FURNISHING AND LAYING 8" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					31					638	80800	31	FT	SPECIAL - FURNISHING AND LAYING 10" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					158					638	80900	158	FT	SPECIAL - FURNISHING AND LAYING 12" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					2079					638	81000	2079	FT	SPECIAL - FURNISHING AND LAYING 16" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					16					638	81200	16	FT	SPECIAL - FURNISHING AND LAYING 24" DUCTILE IRON PIPE AND FITTINGS (CIN. 1101)	599		
					750					638	81600	750	FT	SPECIAL - FURNISHING AND LAYING 24" PRESTRESSED CONCRETE WATER PIPE AND FITTINGS (CIN 1101)	599		
					232					638	81800	232	FT	SPECIAL - FURNISHING AND LAYING 36" PRESTRESSED CONCRETE WATER PIPE AND FITTINGS (CIN 1101)	599		
					6					638	82000	6	TON	SPECIAL - HAULING WATER WORK MATERIAL (CIN. 1102)	599		
					66					638	84500	66	CU YD	SPECIAL - CONCRETE, CLASS C (CIN. 1110)	599		
					11					638	85800	11	EACH	SPECIAL - FURNISHING AND INSTALLING FIRE HYDRANT (CIN. 1112)	599		
					5					638	86000	5	EACH	SPECIAL - REMOVING FIRE HYDRANT (CIN. 1114)	599		
					11					638	86100	11	EACH	SPECIAL - FURNISHING AND INSTALLING FIRE HYDRANT EXTENSION (CIN. 1115)	599		
					31					638	86300	31	EACH	SPECIAL - FURNISHING AND INSTALLING VALVE BOX, COMPLETE (CIN. 1116)	599		
					6					638	86302	6	EACH	SPECIAL - FIELD WELDING TIE JOINT (CIN. 1117)	599		
					100					638	86400	100	CU YD	SPECIAL - ADDITIONAL EXCAVATION (CIN. 1119)	599		
					100					638	86404	100	CU YD	SPECIAL - EXPLORATORY EXCAVATION (CIN. 1120)	599		
					6					638	86600	6	EACH	SPECIAL - REMOVING EXISTING MANHOLE CURB AND COVER (CIN. 1122)	599		
					13					638	86700	13	EACH	SPECIAL - REMOVING EXISTING VALVE BOX (CIN. 1122)	599		
					100					638	86800	100	FT	SPECIAL - CHANGING 8" AND UNDER PIPE SEWER (CIN. 1123)	599		
					100					638	86900	100	FT	SPECIAL - CHANGING 10" THRU 24" PIPE SEWER (CIN. 1123)	599		

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SHEET NUMBER														ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED NG	CHECKED MAH
23	24	25	26	27	81	87	88	89	90	91	92	93									
		500												254	01000	500	SQ YD	MAINTENANCE OF TRAFFIC			
			300											614	11110	300	HOURS	PAVEMENT PLANING, ASPHALT CONCRETE			
					2									614	11300	2	EACH	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	25		
				24										614	11500	24	MONTH	SPECIAL - WORK ZONE TRAFFIC SIGNAL			
						3												WORKSITE TRAFFIC SUPERVISOR			
						13								614	12336	3	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)			
														614	12338	13	EACH	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)			
			20											614	12410	20	EACH	SPEED ZONE AHEAD SYMBOL SIGN			
	LUMP													614	12420	LUMP		DETOUR SIGNING			
			20											614	12470	20	EACH	WORK ZONE SPEED LIMIT SIGN			
			20											614	12484	20	EACH	WORK ZONE INCREASED PENALTIES SIGN			
		50												614	12500	50	EACH	REPLACEMENT SIGN			
		200												614	12600	200	EACH	REPLACEMENT DRUM			
	24	50												614	13000	74	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC			
					13650									614	11621	13650	FT	LINEAR DELINEATION, AS PER PLAN	27		
					173									614	13350	173	EACH	OBJECT MARKER, ONE-WAY (CONCRETE BARRIER)			
					24									614	18511	24	MONTH	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	27		
						2.3								614	20200	2.3	MILE	WORK ZONE LANE LINE, CLASS I, 740.06, TYPE I			
		2												614	20550	2	MILE	WORK ZONE LANE LINE, CLASS III, 642 PAINT			
						3.45								614	21200	3.45	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I			
														614	21550	1	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT			
		1												614	22200	10.9	MILE	WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I			
		2				8.91								614	22350	3	MILE	WORK ZONE EDGE LINE, CLASS III, 642 PAINT			
		3												614	23400	4441	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 740.06, TYPE I			
		1000				3441								614	24400	373	FT	WORK ZONE DOTTED LINE, CLASS I, 740.06, TYPE I			
						373															
			150											614	24610	150	FT	WORK ZONE DOTTED LINE, CLASS III, 642 PAINT			
						755								614	25400	755	FT	WORK ZONE TRANSVERSE/DIAGONAL CLASS I, 740.06, TYPE I			
						345								614	26400	345	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I			
						1170								614	27400	1170	FT	WORK ZONE CROSSWALK LINE, CLASS I, 740.06, TYPE I			
						14								614	30400	14	EACH	WORK ZONE ARROW CLASS I, 740.06, TYPE I			
		LUMP												615	10000	LUMP		ROADS FOR MAINTAINING TRAFFIC			
						7620								615	25000	7620	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B			
			2											616	10000	2	M GAL	WATER			
						11725								622	40020	11725	FT	PORTABLE CONCRETE BARRIER, 32"			
						400								622	40030	400	400	PORTABLE CONCRETE BARRIER, 32", BRIDGE MOUNTED			
																		PAVEMENT			
						5165						1390		304	20000	8891	CU YD	6" AGGREGATE BASE			
						24097								305	16000	36354	SQ YD	12" CONCRETE BASE			
						18								452	12000	742	SQ YD	8" NON-REINFORCED CONCRETE PAVEMENT (DRIVEWAY)			
														452	15000	3850	SQ YD	12" NON-REINFORCED CONCRETE PAVEMENT (DRIVEWAY)			
							6190			865		2501	1461	609	26000	11017	FT	CURB, TYPE 6			
	LUMP													690	12160	LUMP		SPECIAL - TESTING (MATERIAL SAMPLING)	23		
	250													690	65000	250	TON	SPECIAL - WORK INVOLVING NON-REGULATED MATERIALS	23		
	7500													690	65010	7500	TON	SPECIAL - WORK INVOLVING SOLID WASTE	23		
	125													690	65014	125	TON	SPECIAL - WORK INVOLVING HAZARDOUS WASTE	23		
	2000													690	65016	2000	TON	SPECIAL - WORK INVOLVING PETROLEUM-CONTAMINATED SOIL	23		
														690	65020	100000	GAL	SPECIAL - WORK INVOLVING WATER	23		
														690	65024	50000	GAL	SPECIAL - WORK INVOLVING REGULATED WATER	23		
		5												690	65300	5	EACH	SPECIAL - GROUND WATER MONITORING WELL ABANDONMENT	23		
		5												690	65310	5	EACH	SPECIAL - ACTIVE GROUND WATER MONITORING WELL RECONSTRUCTION	23		
														690	65310	5	EACH	SPECIAL - ACTIVE GROUND WATER MONITORING WELL GRADE ADJUSTMENT	23		
		2000												690	98800	2000	TON	SPECIAL - TEMPORARY STORAGE OF CONTAMINATED MATERIAL	23		
														108	10000	LUMP		SPECIAL - CPM PROGRESS SCHEDULE			
														619	16020	24	MONTH	FIELD OFFICE, TYPE C			
														614	11000	LUMP		MAINTAINING TRAFFIC			
		LUMP												623	10000	LUMP		CONSTRUCTION LAYOUT STAKES			
														623	11000	1	EACH	PROVIDING ELECTRONIC INSTRUMENTATION			
														623	11100	16	HOURS	TECHNICAL ASSISTANCE			
														624	10000	LUMP		MOBILIZATION			

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SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	202	202	202	202	202	202	204	304	305	452	606	606	606					
						Pavement Removed	Curb Removed	Walk Removed	Fence Removed	Building Demolished	Steps Removed	Subgrade Compaction	6" Aggregate Base CY	12" Concrete Base SY	8" Non-Reinforced Concrete Pavement SY	Guardrail, Type 5 LF	Bridge Terminal Assembly, Type 4 EA	Anchor Assembly, Type B-98 EA					
			LF	LF		SF	LF	LUMP	SF	SY	SY	SY		LF	EA	EA							
95		River Road	11+54.26	13+00.00	LT & RT	971						858	143	826									
95	R1	River Road	11+54.26	13+00.00	LT		145																
95	R2	River Road	11+54.26	13+00.00	RT		146																
95	R3	River Road	11+54.26	13+00.00	LT			1260															
95	R4	River Road	11+54.26	13+00.00	RT			986															
95	R5	River Road	11+54.26	13+00.00	LT				147														
96		River Road	13+00.00	17+00.00	LT & RT	1999						2773	462	2635									
96	R1	River Road	13+00.00	17+00.00	LT		400																
96	R2	River Road	13+00.00	17+00.00	RT		401																
96	R3	River Road	13+00.00	17+00.00	LT			2529															
96	R4	River Road	13+00.00	17+00.00	RT			233															
97		River Road	17+00.00	22+00.00	LT & RT	3312						4059	677	3731									
97	R1	River Road	17+00.00	18+50.00	LT		260	1627															
97	R2	River Road	18+50.00	20+00.00	LT		322	2110															
97	R3	River Road	19+50.00	22+00.00	LT		379	2682															
97	R4	River Road	18+33.00	22+00.00	RT		367																
98		River Road	22+00.00	27+00.00	LT & RT	1973						3254	542	3143									
98	R1	River Road	22+00.00	24+50.00	LT		250	1396															
98	R2	River Road	22+00.00	27+00.00	LT & RT		500																
98	R3	River Road	24+40.00	24+90.00	LT		105																
98	R4	River Road	25+50.00	25+65.00	LT		157																
98	R5	River Road	26+50.00	27+00.00	LT		30	1888															
98	R6	River Road	26+16.00		LT					1													
99		River Road	27+00.00	32+00.00	LT & RT	2280						4166	694	4054									
99	R1	River Road	27+00.00	32+00.00	LT		500																
99	R2	River Road	27+00.00	32+00.00	RT		498																
99	R3	River Road	27+00.00	32+00.00	LT			3701															
100		River Road	32+00.00	37+00.00	LT & RT	3329						6554	1092	6226									
100	R1	River Road	32+00.00	34+90.00	LT		328	2430															
100	R2	River Road	32+00.00	37+00.00	LT & RT		500																
100	R3	River Road	35+15.00	37+00.00	LT		587	905															
102		River Road	37+00.00	41+03.52	LT & RT	964						2804	1402	2755									
102	R1	River Road	37+00.00	41+03.52	LT		885																
102	R2	River Road	37+00.00	41+03.52	LT						22												
102	R3	River Road	37+00.00	41+03.52	LT				296														
102	R4	River Road	39+00		LT					1													
126		EB Elberon Ramp	50+00.00	53+00.00	LT & RT	428						871	147	727									
126	R1	EB Elberon Ramp	50+00.00	52+00.00	LT		226																
126	R2	EB Elberon Ramp	50+00.00	52+00.00	LT			1256															
126	D1	EB Elberon Ramp	50+40.00		RT							32	5		18								
126	GR-3	EB Elberon Ramp	52+37.61	53+00.00	LT											73	1	1					
126	GR-3	EB Elberon Ramp	52+04.23	53+00.00	RT											73	1	1					
TOTALS CARRIED TO GENERAL SUMMARY						15256	6986	23003	443	2	22	25371	5165	24097	18	146	2	2					

CALCULATED
AWS

CHECKED
MAH

ROADWAY SUB-SUMMARY

HAM-50-18.79

87
657

89
657

90 657 HAM-50-18.79	ROADWAY SUB-SUMMARY		
	CALCULATED		
	AWS CHECKED MAH		

CALCULATED AWS	
CHECKED MAH	

REF NO.	SHEET NO.	STATION TO STATION	SIDE	202	202	202	202	202			
				PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	MANHOLE REMOVED	CATCH BASIN REMOVED	MANHOLE ABANDONED			
				FOOT	FOOT	EACH	EACH	EACH			
RD1	196	14+80.8	RT					1			
RD2	196	15+98.4	RT					1			
RD3	196	16+08.1	RT	28			1				
RD4	197	17+27.6	RT					1			
RD8	197	17+82.0 TO 18+18.2	RT	40			1				
RD9	197	18+22.0 TO 18+54.1	LT & RT	46			1				
RD10	197	18+58.5 TO 18+54.1	RT	19			1				
RD11	197	18+81.7	RT					1			
RD12	197	18+88.1 TO 18+81.7	RT	15			1				
RD13	197	19+02.4 TO 19+10.5	RT	8			1				
RD14	197	19+57.4 TO 19+10.5	LT & RT	50			1				
RD15	197	20+37.6	RT					1			
RD16	197	21+62.1 TO 21+71.7	LT & RT	32			1				
RD17	197	21+68.1 TO 21+71.7	RT	13			1				
RD18	197	21+71.7	RT					1			
RD19	197	23+02.4	RT					1			
RD20	198	24+29.2 TO 24+30.3	LT & RT	29			1				
RD21	198	24+10.1 TO 24+21.1	LT	20			1				
RD22	198	24+21.1 TO 24+30.3	LT	15			1				
RD23	198	24+23.8 TO 24+30.3	LT	30			1				
RD24	198	24+30.3	LT								
RD25	202	98+89.7 TO 99+60.8 (WB ELBERON)	LT	72		1					
RD26	202	99+58.3 TO 99+60.8 (WB ELBERON)	LT	42			1				
RD27	202	99+70.8 TO 99+66.6 (WB ELBERON)	LT	26			1				
RD28	202	99+66.6 TO 99+60.8 (WB ELBERON)	LT	10			1				
RD29	202	99+60.8 TO 100+24.8 (WB ELBERON)	LT	65		1					
RD30	198	100+24.8 TO 101+71.1 (WB ELBERON)	LT	148		1					
RD31	198	101+49.1 TO 101+57.3 (WB ELBERON)	LT	26			1				
RD32	198	101+57.3 TO 101+71.1 (WB ELBERON)	LT	21			1				
RD35	198	26+20.7 TO 26+19.4	LT	27			1				
RD37	198	26+39.0 TO 26+67.2	LT	29			1				
RD38	198	26+55.1 TO 26+67.2	LT	17			1				
RD39	198	26+79.9 TO 26+67.2	LT	17			1				
RD41	198	26+84.9 TO 26+84.5	LT	13			1				
RD42	198	26+84.5 TO 27+72.1	LT	88				1			
RD43	198	27+43.3 TO 27+87.3	LT	44			1				
RD44	198	27+87.3 TO 27+93.1	LT	20			1				
RD45	198	27+43.3 TO 27+85.4	LT	42			1				
RD42A	198	27+72.1 TO 28+95.0	LT	123		1					
RD42B	199	28+95.0 TO 30+15.9	LT	120		1					
RD42C	199	30+15.9 TO 31+11.8	LT	96		1					
RD42D	199	31+11.8 TO 32+33.0	LT	121		1					
RD42E	199	32+33.0 TO 33+55.9	LT	123		1					
RD42F	199	33+55.9 TO 34+75.2	LT	121		1					
RD42G	200	34+75.2 TO 34+92.3	LT	19		1					
TOTALS CARRIED TO NEXT COLUMN				1775	0	11	26	8			

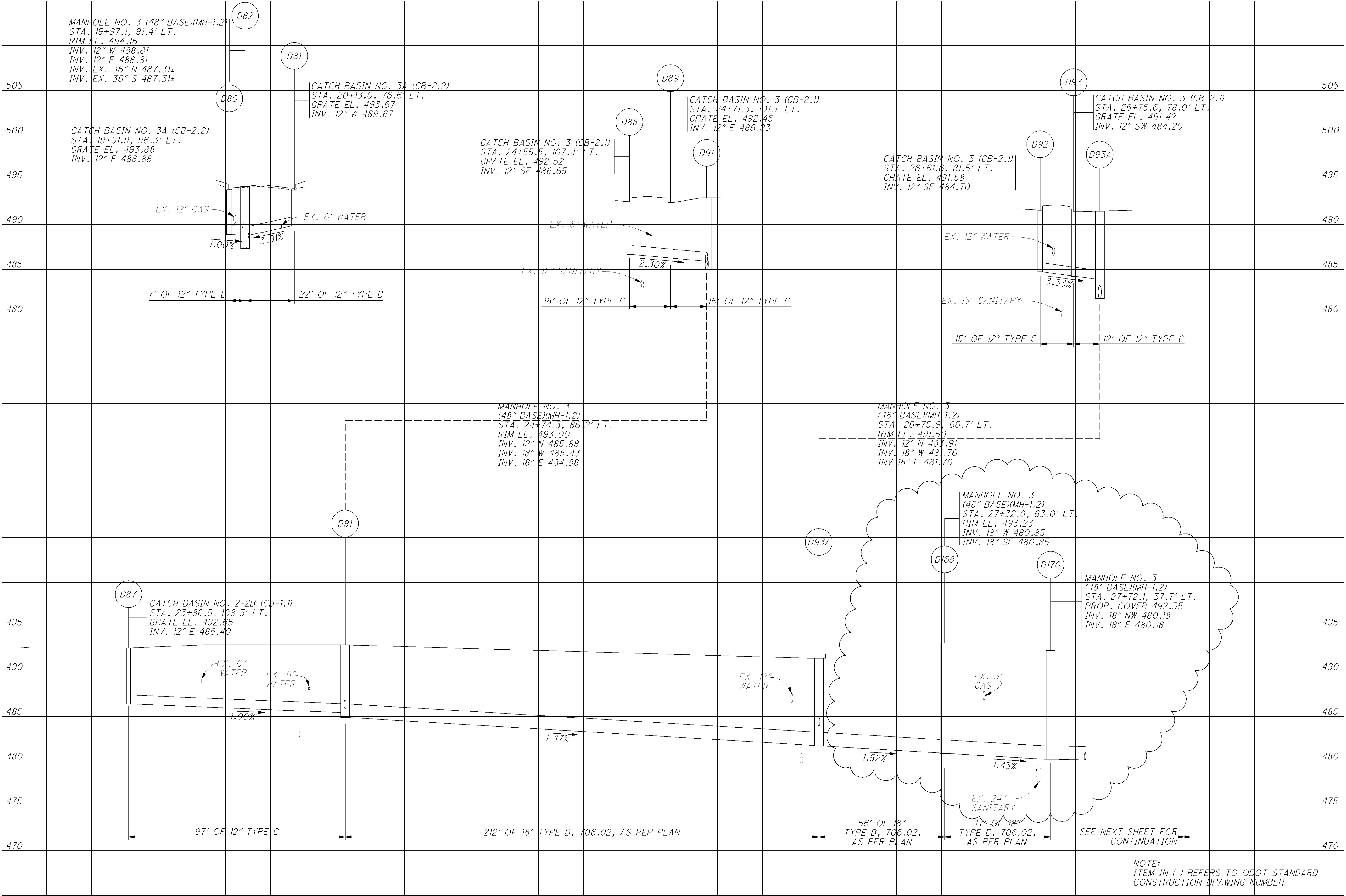
REF NO.	SHEET NO.	STATION TO STATION	SIDE	202	202	202	202	202			
				PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	MANHOLE REMOVED	CATCH BASIN REMOVED	MANHOLE ABANDONED			
				FOOT	FOOT	EACH	EACH	EACH			
RD46	198	27+85.4 TO 27+93.1	LT	27			1				
RD47	199	29+39.9 TO 28+64.8	LT	44			1				
RD48	199	28+64.8 TO 28+97.0	LT	4			1				
RD49	199	28+97.0 TO 28+95.0	LT	19		1					
RD50	199	29+36.8 TO 28+94.4	LT	42			1				
RD51	199	28+94.4 TO 28+95.6	LT	5			1				
RD52	199	28+95.6 TO 28+95.0	LT	20			1				
RD53	199	30+16.3 TO 30+15.9	LT	31							
RD54	199	30+55.5 TO 30+99.0	LT	44			1				
RD55	199	30+99.0 TO 33+11.8	LT	27			1				
RD56	199	30+56.2 TO 30+97.2	LT	41			1				
RD57	199	30+97.2 TO 31+11.8	LT	26			1				
RD58	199	32+56.6 TO 33+15.2	LT	60			1				
RD59	199	33+15.2 TO 33+09.6	LT	17			1				
RD60	199	33+56.6 TO 33+15.7	LT	59			1				
RD61	199	33+15.7 TO 33+09.6	LT	30			1				
RD62		NOT USED									
RD63	199	34+54.0	RT			1					
RD64	200	35+07.9	RT	25			1				
RD65	200	35+16.7	RT					1			
RD66	200	35+07.3	RT					1			
RD67	199	34+40.2 TO 34+78.1	LT & RT	42			1				
RD68	200	34+78.1 TO 34+84.9	LT	6			1				
RD69	200	34+84.9	LT	37			1				
RD70	199-200	34+61.2	LT				1				
RD71	200	34+56.9 TO 34+72.9	LT	41			1				
RD72	200	20+70.3 (EVANS)	LT	20			1				
RD73	200	20+78.4 (EVANS)	RT	30			1				
RD74	200	35+31.4 TO 35+21.2	LT	11			1				
RD75	200	35+21.2	LT					1			
RD76	200	35+48.5	LT				1				
RD77	200	35+48.2	LT					1			
RD78	200	35+45.0	LT					1			
RD79	200	35+46.6	LT				1				
RD80	200	36+22.4	LT					1			
RD81	200	37+33.5	LT					1			
RD82	200	38+63.0	LT				1				
RD83	200	38+62.4	LT					1			
RD84	200	38+64.8	LT				1				
RD85	200	39+51.0 TO 39+76.5	LT	28			1				
RD86	200	39+92.2 TO 39+76.5	LT	19			1				
RD87	200	39+94.5 TO 39+76.5	LT	23			1				
RD88	200	39+50.0 TO 39+76.5	LT	26		1					
RD89	200	39+73.2	RT				1				
RD90	200	39+95.0	RT				1				
TOTALS CARRIED FROM PREVIOUS COLUMN				1775	0	11	26	8			
TOTALS CARRIED TO NEXT SHEET				2579	0	14	58	16			

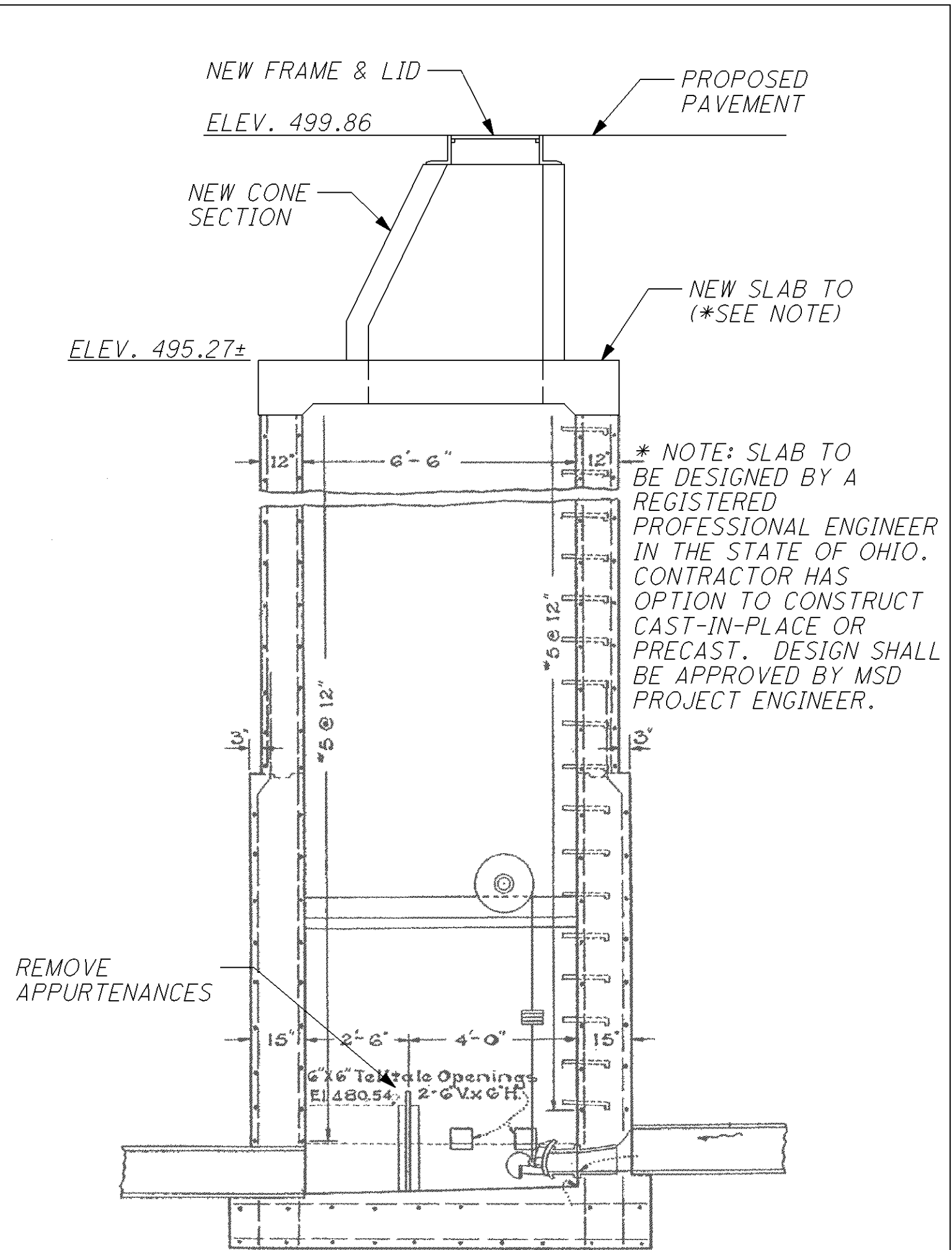
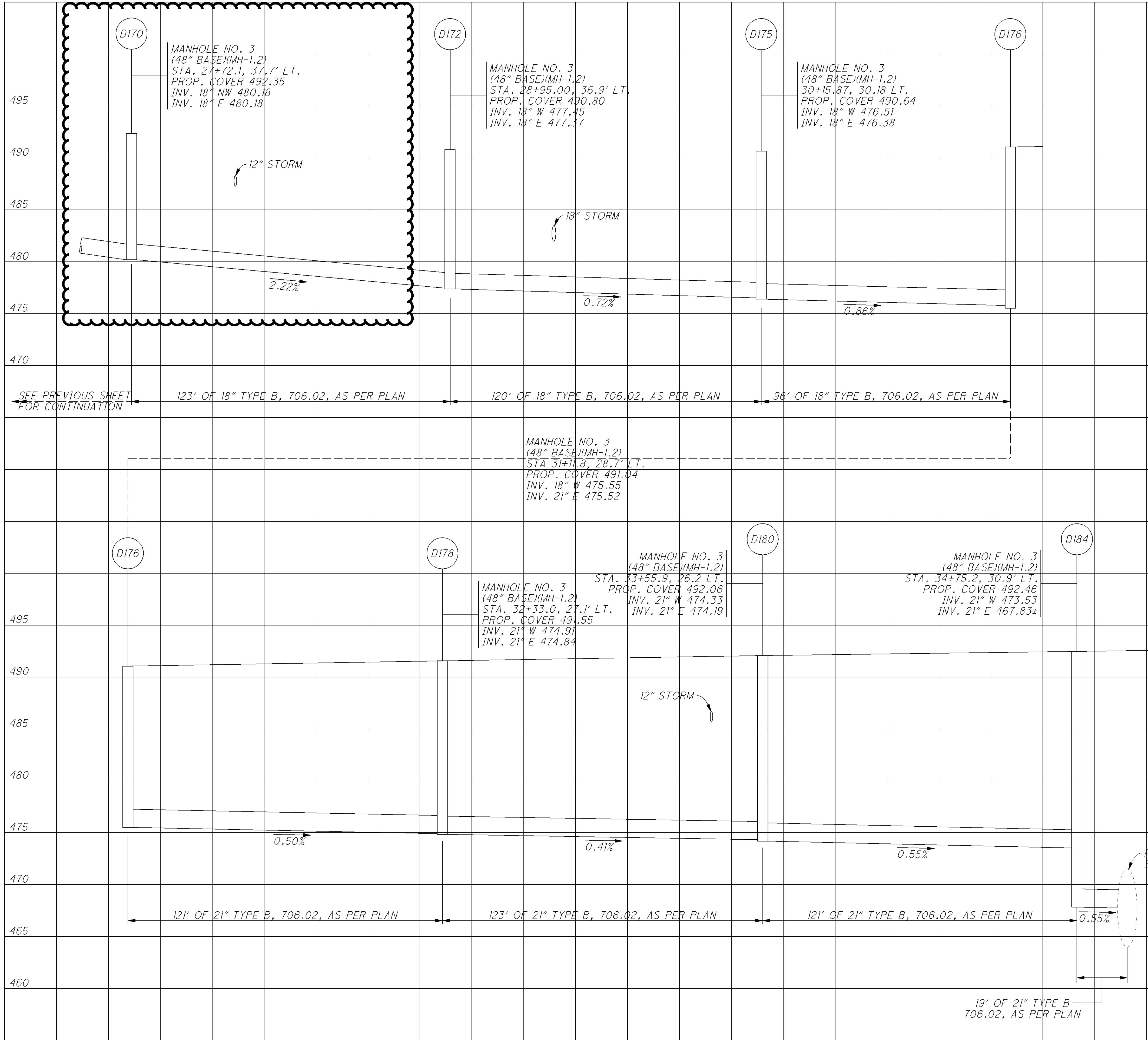
DRAINAGE REMOVAL SUBSUMMARY

HAM-50-18.79

REF NO.	SHEET NO.	STATION TO STATION	SIDE	202	202	202	202	202			
				PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	MANHOLE REMOVED	CATCH BASIN REMOVED	MANHOLE ABANDONED			
									FOOT	FOOT	EACH
RD91	201	43+90.4 TO 43+97.1 (EB ELBERON)	RT	8			1				
RD92	201	45+08.1 TO 46+30.1 (EB ELBERON)	RT	126		1					
RD93	201	45+88.5 TO 46+18.1 (EB ELBERON)	RT	30			1				
RD94	201	47+53.3 TO 47+51.1 (EB ELBERON)	RT	16			1				
RD95	201	47+48.5 TO 47+51.1 (EB ELBERON)	RT	5			1				
RD96	201	47+51.1 (EB ELBERON)	RT					1			
RD97	201	47+76.4 (EB ELBERON)	RT				1				
RD98	201	47+74.4 (EB ELBERON)	RT					1			
RD99	201	47+72.1 (EB ELBERON)	RT				1				
RD100	202	47+99.7 (EB ELBERON)	RT					1			
RD101	201	91+34.6 TO 91+41.6 (WB ELBERON)	LT	21			1				
RD102	201	91+34.6 TO 91+41.6 (WB ELBERON)	RT & LT	11			1				
RD103	201	91+41.6 (WB ELBERON)	LT			1					
RD104	201	92+02.4 TO 92+03.5 (WB ELBERON)	LT	6			1				
RD105	201	92+03.5 TO 92+04.4 (WB ELBERON)	LT & RT	24			1				
RD106	201	91+97.4 TO 92+04.4 (WB ELBERON)	RT	14			1				
RD107	201	92+04.4 TO 92+43.4 (WB ELBERON)	RT	40		1					
RD108	201	92+43.4 TO 92+51.3 (WB ELBERON)	RT	34		1					
RD109	201	46+18.5 TO 46+32.4 (MARYLAND)	LT	26			1				
RD110	202	44+96.9 TO 45+13.3 (STATE)	RT	21			1				
RD111	202	45+13.3 TO 45+61.2 (STATE)	RT	23	34	1					
RD112	202	45+18.9 TO 45+72.7 (STATE)	LT	54		1					
RD113	202	45+63.2 TO 45+72.7 (STATE)	LT	26			1				
RD114	202	45+88.6 TO 45+72.7 (STATE)	LT	21			1				
RD115	202	45+60.0 (STATE)	RT					1			
RD116	202	46+04.2 TO 45+60.0 (STATE)	RT	49		1					
RD117	202	46+18.8 TO 46+04.2 (STATE)	RT	21			1				
RD118	202	45+68.1 (STATE)	RT				1				
RD119	201	46+44.0 (STATE)	RT				1				
RD120	201	46+66.5 (STATE)	RT			1					
RD121	201	47+14.7 (STATE)	RT				1				
RD122	203	70+68.1 (EB WARSAW)	RT				1				
RD123	203	70+83.2 (EB WARSAW)	RT				1				
RD124	203-202	72+06.0 TO 74+56.2 (EB WARSAW)	RT	1	254						
RD125	202	19+95.8	LT				1				
RD126	202	19+65.8	LT				1				
RD127	202	20+19.9	LT					1			
RD128	202	20+24.9	LT				1				
RD129	202	20+40.9	LT				1				
RD130	202	20+51.3	LT				1				
RD131	202	20+63.5	LT				1				
RD132	202	20+85.4	LT				1				
RD133	202	21+24.4 TO 21+33.6	LT	14			1				
RD134	202	21+37.9 TO 21+33.6	LT	13			1				
RD135	202	21+33.6 TO 20+97.0	LT	45		1					
TOTALS CARRIED TO NEXT COLUMN				648	288	10	30	5			

REF NO.	SHEET NO.	STATION TO STATION	SIDE	202	202	202	202	202			
				PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"	MANHOLE REMOVED	CATCH BASIN REMOVED	MANHOLE ABANDONED			
									FOOT	FOOT	EACH
RD136	202	21+10.4 TO 21+18.5	LT	26			1				
RD137	202	21+40.2 TO 21+36.2	LT	10			1				
RD138	202	21+36.2 TO 21+18.5	LT	21		1					
RD139	196	13+43.4 TO 13+64.8	RT	23			1				
RD140	196	13+64.8 TO 13+72.7	RT	16			1				
RD141	196	13+72.7	RT					1			
RD142	196	13+14.0 TO 12+97.7	LT	19			1				
RD143	198	23+64.5	LT	65			1				
RD144	198	24+52.2	LT	13			1				
RD145	198	24+76.8	LT	19			1				
RD146	199	32+35.3 TO 32+33.0	LT	20			1				
RD147	199	32+32.4 TO 32+33.0	LT	18			1				
RD148	199	34+41.6	RT					1			
RD149	202	74+08.0 (EB WARSAW)	RT	8			1				
RD150	203	102+59.3 TO 102+68.4 (WB WARSAW)	LT	9			1				
RD151	203	102+96.5 TO 103+01.2 (WB WARSAW)	LT	7			1				
RD152	203	103+01.2 TO 103+19.2	LT	32		1					
RD153	201	46+32.4 (MARY.) TO 46+42.5 (ELB.)	LT		85	1					



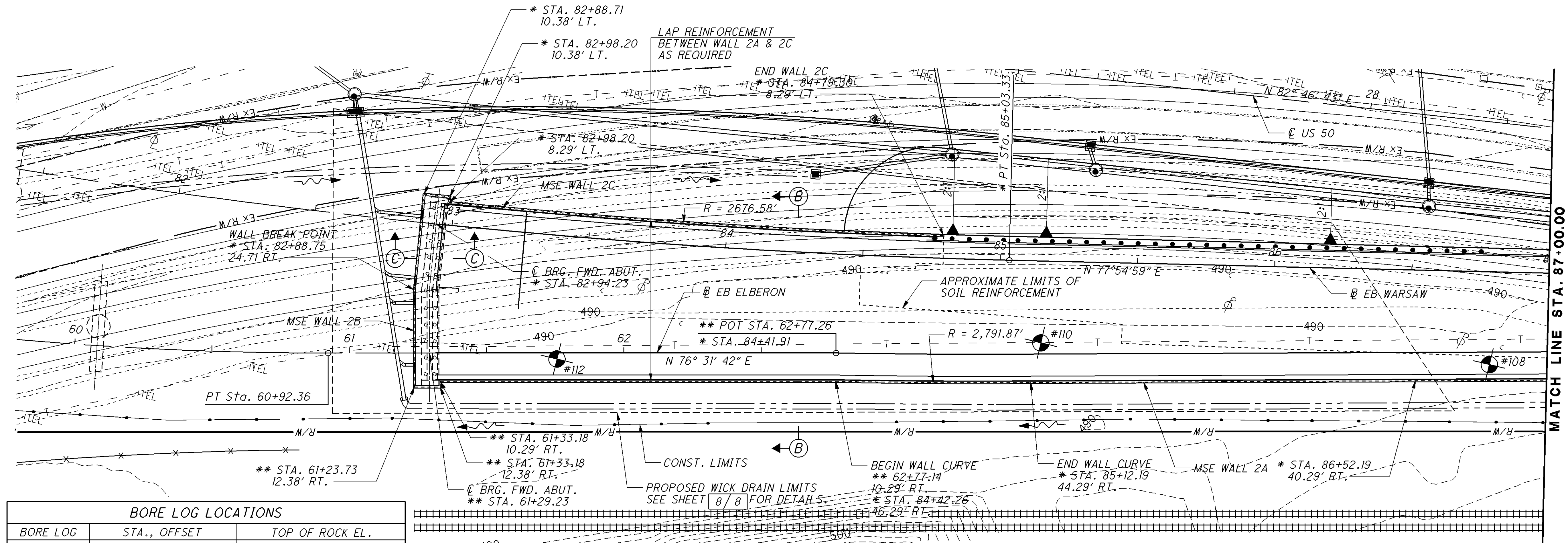


D7A REGULATION CHAMBER

NOTE:
ITEM IN () REFERS TO ODOT STANDARD
CONSTRUCTION DRAWING NUMBER

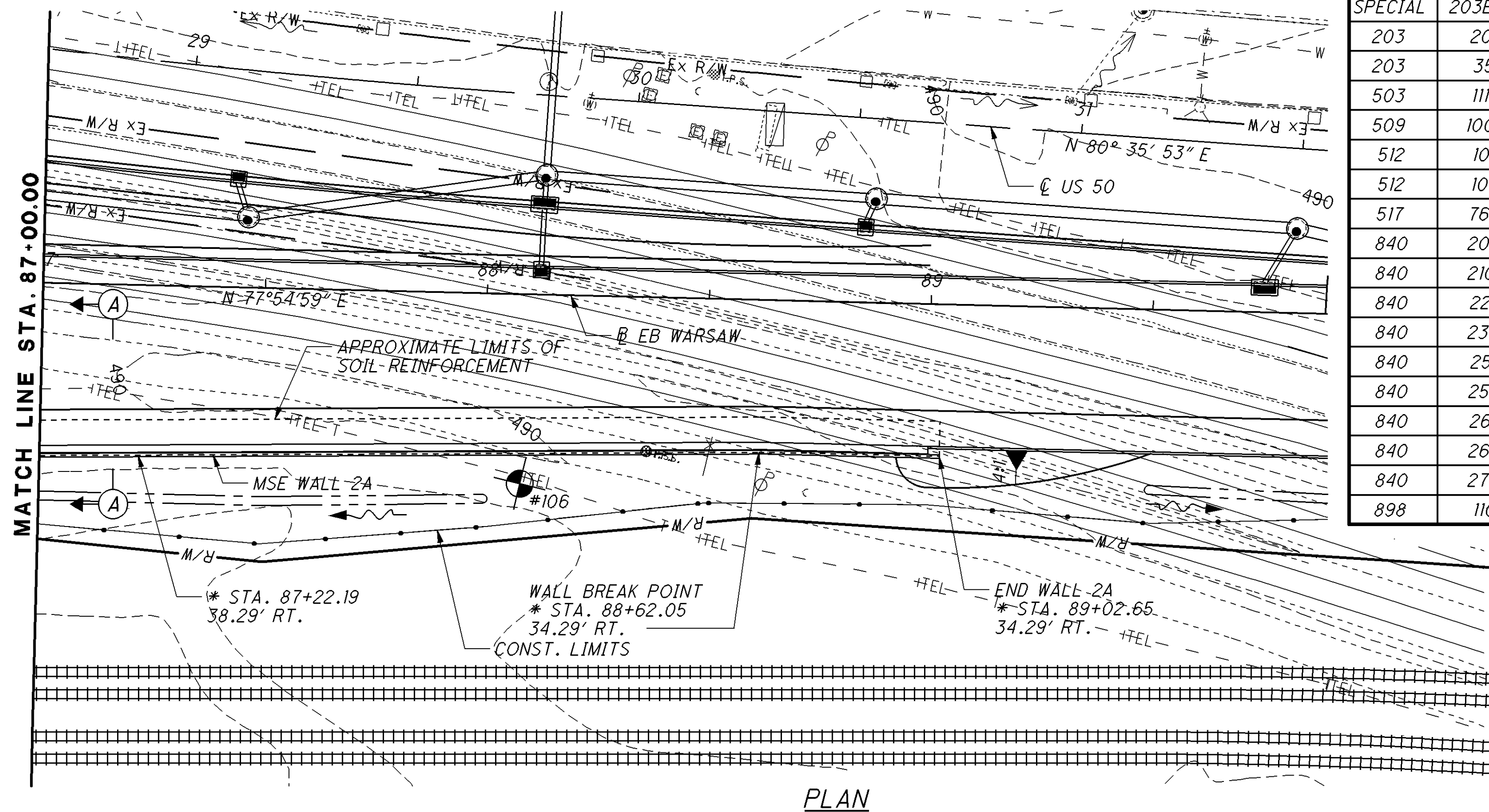
DRAINAGE DETAILS
US 50, BURNS TO EVANS STREETS

HAM-50-18.79



BORE LOG LOCATIONS		
BORE LOG	STA., OFFSET	TOP OF ROCK EL.
#106	* 88+08.30, 42.7' RT.	** 428.7
#108	* 86+78.98, 33.7' RT.	** 468.8
#110	* 85+15.53, 29.8' RT.	** 428.7
#112	** 61+75.65, 2.16' RT.	** 428.7

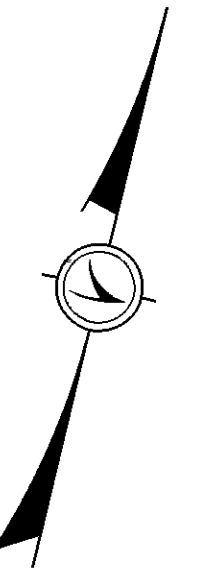
** INDICATES BOTTOM OF BORING EL. NO ROCK ENCOUNTERED



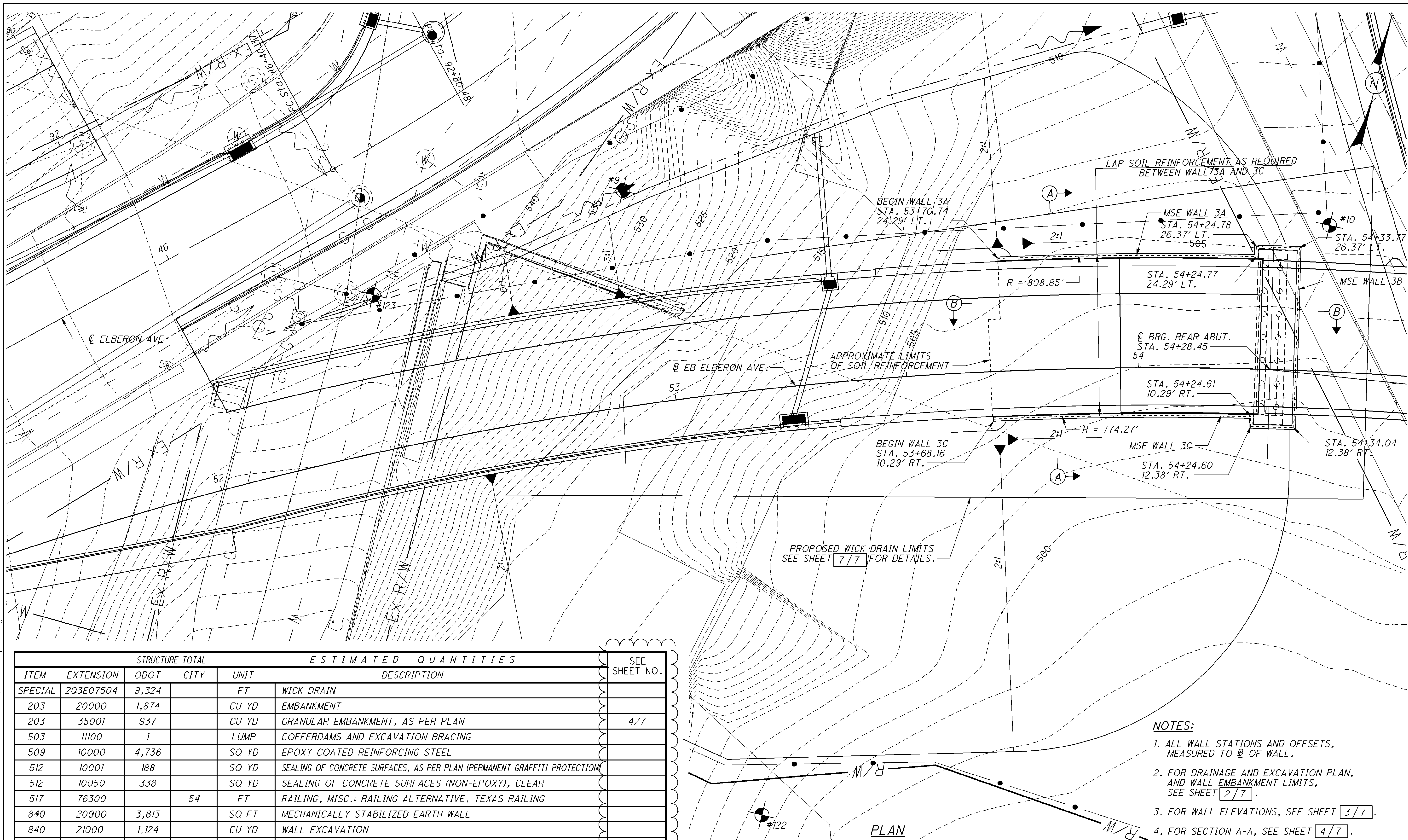
		STRUCTURE TOTAL		ESTIMATED QUANTITIES		SEE SHEET NO.
ITEM	EXTENSION	ODOT	CITY	UNIT	DESCRIPTION	
SPECIAL	203E07504	37,944		FT	WICK DRAIN	
203	20000	3,823		CU YD	EMBANKMENT	
203	35001	3,528		CU YD	GRANULAR EMBANKMENT, AS PER PLAN	6/8
503	11100	1		LUMP	COFFERDAMS AND EXCAVATION BRACING	
509	10000	62,855		POUND	EPOXY COATED REINFORCING STEEL	
512	10001	977		SQ YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	
512	10050	2,311		SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY), CLEAR	
517	76300	730		FT	RAILING, MISC.: RAILING ALTERNATE, TEXAS RAILING	
840	20000	17,374		SQ FT	MECHANICALLY STABILIZED EARTH WALL	
840	21000	9,880		CU YD	WALL EXCAVATION	
840	22001	4,235		SQ YD	FOUNDATION PREPARATION, AS PER PLAN	1/8
840	23000	13,265		CU YD	SELECT GRANULAR BACKFILL	
840	25010	1,819		FT	6" DRAINAGE PIPE, PERFORATED	
840	25020	72		FT	6" DRAINAGE PIPE, NON-PERFORATED	
840	26001	879		FT	CONCRETE COPING, AS PER PLAN	
840	26050	17,374		SQ FT	AESTHETIC SURFACE TREATMENT	
840	27000	5		DAYS	ON-SITE ASSISTANCE	
898	11000	426		CU YD	OC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)	

NOTES:

- ALL WALL STATIONS AND OFFSETS, MEASURED TO $\emptyset$ OF WALL.
- FOR EXCAVATION PLAN, SEE SHEET 2/8.
- FOR DRAINAGE PLAN, SEE SHEET 3/8.
- FOR WALL ELEVATIONS, SEE SHEET 4/8.
- FOR SECTION A-A, SEE SHEET 5/8.
- FOR SECTION B-B, SEE SHEET 6/8.
- FOR SECTION C-C, SEE SHEET 7/8.
- FOR MINIMUM SOIL REINFORCEMENT LENGTHS ALONG WALL, SEE SHEET 4/8.
- FOR SETTLEMENT PLATFORM LOCATIONS AND WICK DRAIN DETAILS, SEE SHEET 8/8.
- FOUNDATION PREPARATION AS PER PLAN SHALL CONFORM TO SS840 WITH THE EXCEPTION THAT NO GRANULAR MATERIAL, TYPE C IS INCLUDED IN THE QUANTITY.



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STRUCTURE TOTAL				ESTIMATED QUANTITIES		SEE SHEET NO.
ITEM	EXTENSION	ODOT	CITY	UNIT	DESCRIPTION	
SPECIAL	203E07504	9,324		FT	WICK DRAIN	4/7
203	20000	1,874		CU YD	EMBANKMENT	
203	35001	937		CU YD	GRANULAR EMBANKMENT, AS PER PLAN	
503	11100	1		LUMP	COFFERDAMS AND EXCAVATION BRACING	
509	10000	4,736		SQ YD	EPOXY COATED REINFORCING STEEL	
512	10001	188		SQ YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	1/7
512	10050	338		SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY), CLEAR	
517	76300		54	FT	RAILING, MISC.: RAILING ALTERNATIVE, TEXAS RAILING	
840	20900	3,813		SQ FT	MECHANICALLY STABILIZED EARTH WALL	
840	21000	1,124		CU YD	WALL EXCAVATION	
840	22001	1,125		SQ YD	FOUNDATION PREPARATION, AS PER PLAN	
840	23000	1,701		CU YD	SELECT GRANULAR BACKFILL	
840	25010	260		FT	6" DRAINAGE PIPE, PERFORATED	
840	25020	100		FT	6" DRAINAGE PIPE, NON-PERFORATED	
840	26001	169		FT	CONCRETE COPING, AS PER PLAN	
840	26050	3,813		SQ FT	AESTHETIC SURFACE TREATMENT	
840	27000	5		DAYS	ON-SITE ASSISTANCE	
898	11000	32		CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)	

BORE LOG LOCATIONS		
BORE LOG	STA., OFFSET FROM BASELINE EB ELBERON AVE.	TOP OF ROCK EL.
#9	52+94.93, 46.3' LT.	462.8
#122	53+07.33, 91.1' RT.	445.3
#10	54+39.87, 31.6' LT.	434.8
#123	52+40.71, 33.5' LT.	461.9

INDICATES BOTTOM OF BORING EL. NO ROCK ENCOUNTERED

NOTES:

- ALL WALL STATIONS AND OFFSETS, MEASURED TO $\mathbb{B}$ OF WALL.
- FOR DRAINAGE AND EXCAVATION PLAN, AND WALL EMBANKMENT LIMITS, SEE SHEET $\boxed{2/7}$.
- FOR WALL ELEVATIONS, SEE SHEET $\boxed{3/7}$.
- FOR SECTION A-A, SEE SHEET $\boxed{4/7}$.
- FOR SECTION B-B, SEE SHEET $\boxed{5/7}$.
- FOR MINIMUM SOIL REINFORCEMENT LENGTHS ALONG WALL, SEE SHEET $\boxed{3/7}$.
- FOR SETTLEMENT PLATFORM LOCATIONS AND WICK DRAIN DETAILS, SEE SHEET $\boxed{7/7}$.
- FOUNDATION PREPARATION AS PER PLAN SHALL CONFORM TO SS840 WITH THE EXCEPTION THAT NO GRANULAR MATERIAL, TYPE C IS INCLUDED IN THE QUANTITY.

WALL 3 SITE PLAN

HAM-50-18.79
PID No. 20082

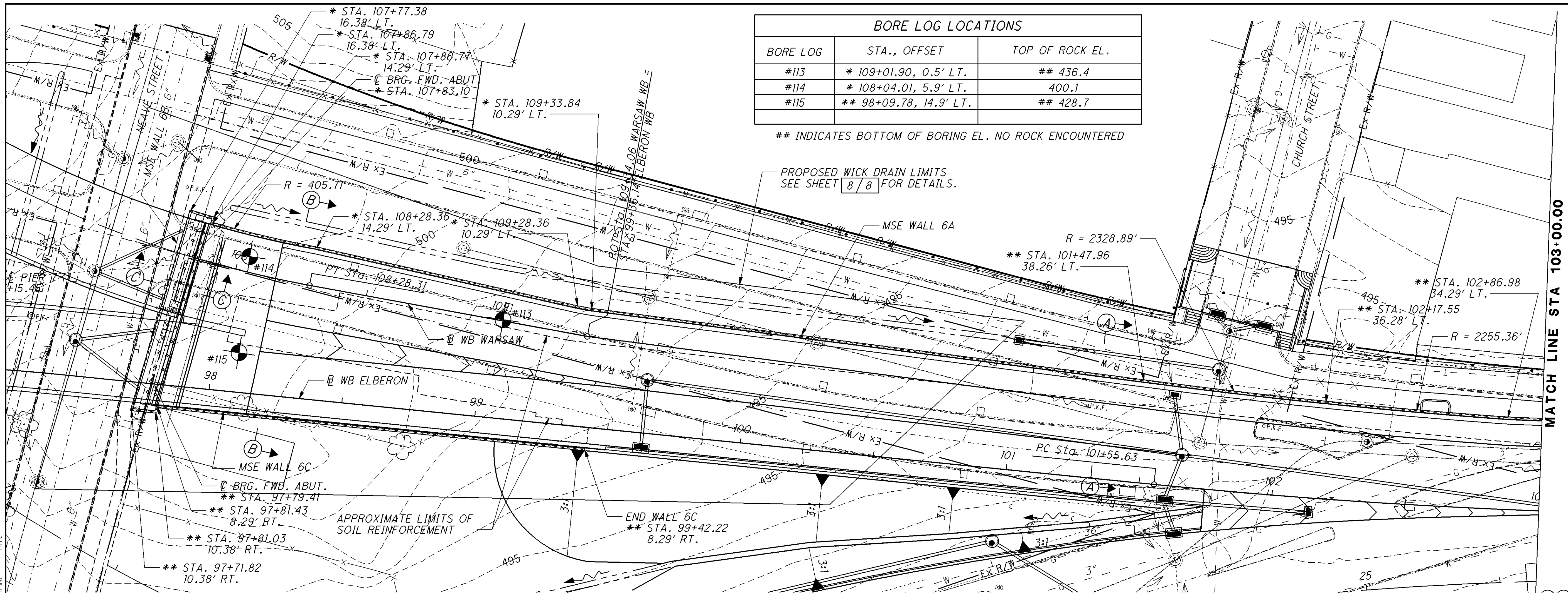
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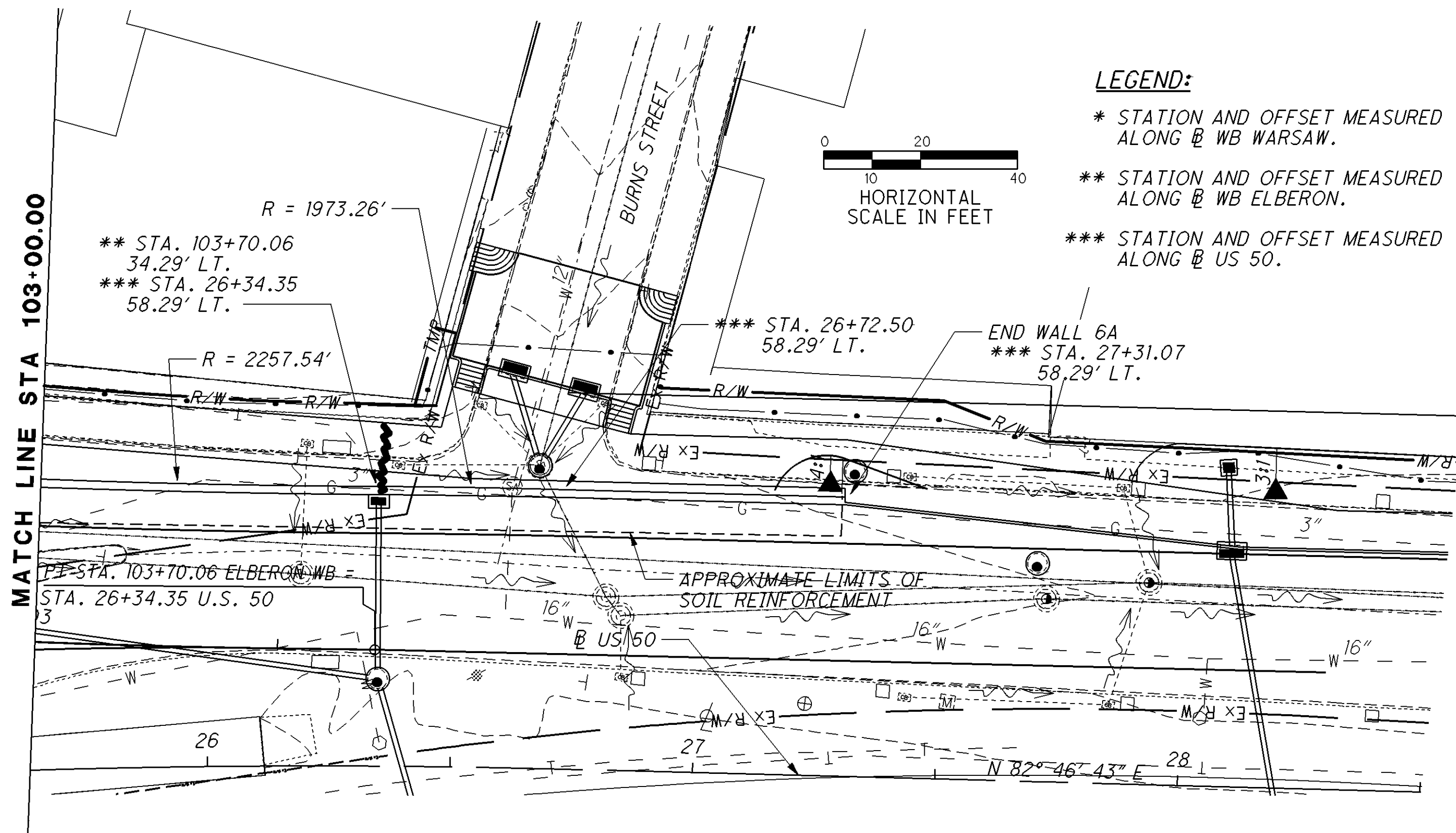
DESIGN AGENCY
PB AMERICAS, INC.
312 ELM STREET
SUITE 2500
CINCINNATI, OHIO 45202

DATE	11/16/10
REVIEWED	EBS
STRUCTURE FILE NUMBER	
DRAWN	NAL
REVIS	
DESIGNED	BMG
CHECKED	PJL

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PLAN



PLAN

LEGEND:

- * STATION AND OFFSET MEASURED ALONG WB WARSAW.
- ** STATION AND OFFSET MEASURED ALONG WB ELBERON.
- *** STATION AND OFFSET MEASURED ALONG US 50.

BORE LOG LOCATIONS		
BORE LOG	STA., OFFSET	TOP OF ROCK EL.
#113	* 109+01.90, 0.5' LT.	## 436.4
#114	* 108+04.01, 5.9' LT.	400.1
#115	** 98+09.78, 14.9' LT.	## 428.7

INDICATES BOTTOM OF BORING EL. NO ROCK ENCOUNTERED

PROPOSED WICK DRAIN LIMITS
SEE SHEET 8/8 FOR DETAILS.

		STRUCTURE TOTAL		ESTIMATED QUANTITIES		SEE SHEET NO.
ITEM	EXTENSION	ODOT	CITY	UNIT	DESCRIPTION	
SPECIAL	203E07504	27,714		FT	WICK DRAIN	
203	20000	1,809		CU YD	EMBANKMENT	
203	35001	3,014		CU YD	GRANULAR EMBANKMENT, AS PER PLAN	6/8
503	11100	1		LUMP	COFFERDAMS AND EXCAVATION BRACING	
509	10000	66,707		POUND	EPOXY COATED REINFORCING STEEL	
512	10001	1031		SQ YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	
512	10050	1,441		SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY), CLEAR	
517	76300		771	FT	RAILING, MISC.: RAILING ALTERNATIVE, TEXAS RAILING	
840	20900	12,708		SQ FT	MECHANICALLY STABILIZED EARTH WALL	
840	21000	9,944		CU YD	WALL EXCAVATION	
840	22001	4,262		SQ YD	FOUNDATION PREPARATION, AS PER PLAN	1/8
840	23000	7,590		CU YD	SELECT GRANULAR BACKFILL	
840	25010	1,797		FT	6" DRAINAGE PIPE, PERFORATED	
840	25020	219		FT	6" DRAINAGE PIPE, NON-PERFORATED	
840	26001	928		FT	CONCRETE COPING, AS PER PLAN	
840	26050	12,708		SQ FT	AESTHETIC SURFACE TREATMENT	
840	27000	5		DAYS	ON-SITE ASSISTANCE	
898	11000	450		CU YD	OC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET)	

NOTES:

- ALL WALL STATIONS AND OFFSETS MEASURED TO B OF WALL.
- FOR EXCAVATION PLAN, AND WALL EMBANKMENT LIMITS, SEE SHEET 2/8.
- FOR DRAINAGE PLAN, SEE SHEET 3/8.
- FOR WALL ELEVATIONS, SEE SHEET 4/8.
- FOR SECTION A-A, SEE SHEET 5/8.
- FOR SECTION B-B, SEE SHEET 6/8.
- FOR SECTION C-C, SEE SHEET 7/8.
- FOR MINIMUM SOIL REINFORCEMENT LENGTHS ALONG WALL, SEE SHEET 4/8.
- FOR SETTLEMENT PLATFORM LOCATIONS AND, WICK DRAIN DEATILS SEE SHEET 8/8.

10. FOUNDATION PREPARATION AS PER PLAN SHALL CONFORM TO SS840 WITH THE EXCEPTION THAT NO GRANULAR MATERIAL, TYPE C IS INCLUDED IN THE QUANTITY.

INDICATES BOTTOM OF BORING EL. NO ROCK ENCOUNTERED

NOTES:

~~1. ALL WALL STATIONS AND OFFSETS~~
~~MEASURED TO E OF WALL.~~

2. FOR EXCAVATION PLAN AND WALL
- PAY LIMITS, SEE SHEET 2/7.

3. FOR DRAINAGE PLAN, SEE SHEET 3/7.

4. FOR WALL ELEVATIONS, SEE SHEET 4 / 7.

5. FOR SECTION A-A, SEE SHEET 5 / 7.

6. FOR SECTION B-B, SEE SHEET 6 / 7.

7. FOR SECTION C-C, SEE SHEET 7 / 7.

- LEGEND:

* STATION AND OFFSET MEASURED
ALONG B US 50.

** STATION AND OFFSET MEASURED
-----ALONG B US 50 WB.

**** TEMPORARY MSE WALL (SEE DETAILS
ON SHEET 13/25 OF BRIDGE
HAM-050-1903 L & R

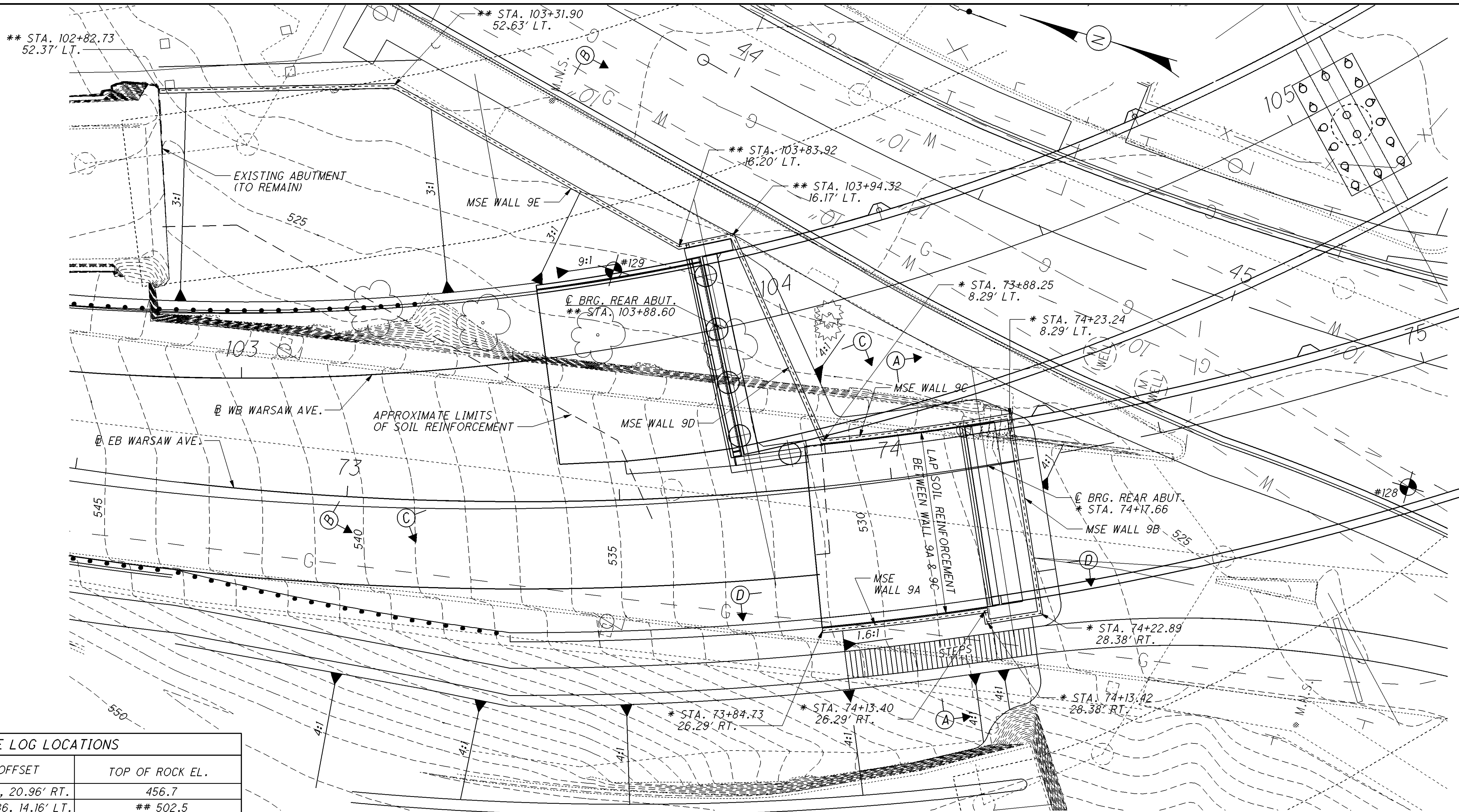
STRUCTURE TOTAL				ESTIMATED QUANTITIES	
ITEM	EXTENSION	ODOT	CITY	UNIT	DESCRIPTION
203	20000	175		CU YD	EMBANKMENT
203	35110	445		CU YD	GRANULAR MATERIAL, TYPE B
503	11100	1		LUMP	COFFERDAMS AND EXCAVATION BRACING
509	10000	59,292		SQ YD	EPOXY COATED REINFORCING STEEL
512	10001	946		SQ YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)
512	10050	1,263		SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY), CLEAR
517	76300		692	FT	RAILING, MISC.: RAILING ALTERNATE, TEXAS RAILING
840	20900	10,083		SQ FT	MECHANICALLY STABILIZED EARTH WALL
840	21000	2,538		CU YD	WALL EXCAVATION
840	22000	1,603		SQ YD	FOUNDATION PREPARATION
840	23000	5,129		CU YD	SELECT GRANULAR BACKFILL
840	25010	1,745		FT	6" DRAINAGE PIPE, PERFORATED
840	25020	50		FT	6" DRAINAGE PIPE, NON-PERFORATED
840	26001	893		FT	CONCRETE COPING, AS PER PLAN
840	26050	10,083		SQ FT	AESTHETIC SURFACE TREATMENT
840	27000	5		DAYS	ON-SITE ASSISTANCE
898	11000	404		CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)

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BORE LOG LOCATIONS		
BORE LOG	STA., OFFSET	TOP OF ROCK EL.
#128	* 74+90.70, 20.96' RT.	456.7
#129	** 103+70.86, 14.16' LT.	** 502.5

** INDICATES BOTTOM OF BORING EL. NO ROCK ENCOUNTERED

ITEM	EXTENSION	STRUCTURE TOTAL	ESTIMATED QUANTITIES		SEE SHEET NO.
			UNIT	DESCRIPTION	
203	20000	140	CU YD	EMBANKMENT	
503	11101	1	LUMP	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	1/8
512	10001	289	SQ YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	
512	10050	560	SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY), CLEAR	
840	20000	6,138	SQ FT	MECHANICALLY STABILIZED EARTH WALL	
840	21000	2,521	CU YD	WALL EXCAVATION	
840	22001	922	SQ YD	FOUNDATION PREPARATION, AS PER PLAN	1/8
840	23000	5,236	CU YD	SELECT GRANULAR BACKFILL	
840	23050	208	CU YD	NATURAL SOIL	
840	25010	431	FT	6" DRAINAGE PIPE, PERFORATED	
840	25020	8	FT	6" DRAINAGE PIPE, NON-PERFORATED	
840	26001	260	FT	CONCRETE COPING, AS PER PLAN	
840	26050	6,138	SQ FT	AESTHETIC SURFACE TREATMENT	
840	27000	5	DAYS	ON-SITE ASSISTANCE	



PLAN

LEGEND:

- * STATION AND OFFSET MEASURED ALONG @ EB WARSAW.
- ** STATION AND OFFSET MEASURED ALONG @ WB WARSAW.

ITEM 503. COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN:

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

NOTES:

- ALL WALL STATIONS AND OFFSETS MEASURED TO @ OF WALL.
- FOR EXCAVATION PLAN AND WALL EMBANKMENT LIMITS, SEE SHEET 2/8.
- FOR DRAINAGE PLAN, SEE SHEET 3/8.
- FOR WALL ELEVATIONS, SEE SHEET 4/8.
- FOR SECTION A-A, SEE SHEET 5/8.
- FOR SECTION B-B, SEE SHEET 6/8.
- FOR SECTION C-C AND D-D, SEE SHEET 7/8.
- FOR MINIMUM SOIL REINFORCEMENT LENGTHS ALONG WALL, SEE SHEET 4/8.
- FOUNDATION PREPARATION AS PER PLAN SHALL CONFORM TO SS840 WITH THE EXCEPTION THAT THE WORK SHALL INCLUDE UNDERCUT OF UNSUITABLE SOIL AND BACKFILL W/ ITEM 203 GRANULAR MATERIAL TYPE C. THE AVERAGE ANTICIPATED DEPTH OF ITEM 203 IS 2.5 FEET.

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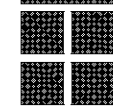
ESTIMATED QUANTITIES									CALC.	DATE	CHK'D	DATE
									JHL	1/8/2009	ADZ	1/21/2009
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER.	APPROACH SLAB	GENERAL	SHT. REF.		
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN						4 / 34		
202	22900	134	SY	APPROACH SLAB REMOVED				134				
SPECIAL	20307502	1	EACH	INCLINOMETER	1					5 / 34		
SPECIAL	20365000	6	EACH	SETTLEMENT PLATFORM	6					5 / 34		
503	21300	LUMP		UNCLASSIFIED EXCAVATION								
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION								
507	00501	1560	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN, AS PER PLAN	1560					5 / 34		
507	00550	1690	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1690							
507	00700	2000	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		2000						
507	00750	2160	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		2160						
509	10000	217865	LB	EPOXY COATED REINFORCING STEEL	26978	35581	155306					
512	10001	84	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)		84				4 / 34		
512	10050	1208	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	319		889					
512	10100	192	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		192						
513	10300	634780	LB	STRUCTURAL STEEL MEMBERS, LEVEL 5			634780					
513	20000	4107	EACH	WELDED STUD SHEAR CONNECTORS			4107					
513	95030	2	EACH	STRUCTURAL STEEL MISC. : SURVEY PRISM MOUNT	2					5 / 34		
514	00060	30640	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			30640					
514	00066	30640	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			30640					
514	10000	23	EACH	FINAL INSPECTION REPAIR			23					
516	11211	37	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (5")			37			9 / 34		
516	11211	71	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (4")			71			9 / 34		
516	13600	11	SF	1" PREFORMED EXPANSION JOINT FILLER	11							
516	13900	18	SF	2" PREFORMED EXPANSION JOINT FILLER	18							
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-8" DIA. x 5 3/16") (SPECIAL)	4							
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2'-1 1/4" DIA. x 5 1/2") (FIXED)		4						
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2'-2 1/2" DIA. x 6 3/8") (EXPANSION)		4						
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-8" DIA. x 5 3/16") (EXPANSION)	4							
517	76300	802	FT	RAILING, MISC: RAILING ALTERNATE, MINNESOTA RAILING *			802			6 & 25 / 34		
518	12300	3	EACH	SCUPPERS, INCLUDING SUPPORTS			3					
518	51100	35	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS					35			
518	60030	24	FT	PIPE HORIZONTAL CONDUCTOR					24			
523	20000	3	EACH	DYNAMIC LOAD TESTING	1	2						
524	94903	230	FT	DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK, AS PER PLAN	230					4 / 34		
898	10201	444	CY	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			444			4 / 34		
898	10709	352	SY	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN				352		4 / 34		
898	11000	92	CY	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)			92					
898	20100	125	CY	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		125						
898	20160	213	CY	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING) **	213							
898	20300	93	CY	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (FOOTING)		93						

* RAILING, MISC: RAILING ALTERNATE, MINNESOTA RAILING IS A REQUIRED BID ITEM. IF SELECTED BY THE OWNER IT WILL REPLACE BID ITEM 898: QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET). CONCRETE IN ALTERNATE RAILING SHALL BE QC/QA CONCRETE,CLASS QSC2. ALTERNATE RAILING SHALL BE DETAILED PER MINNESOTA STANDARD DRAWING FIGURE 5-397.157 AND SUBMITTED FOR SHOP DRAWING REVIEW PRIOR TO FABRICATION. REINFORCING WILL BE PAID UNDER ITEM 509, EPOXY COATED REINFORCING STEEL. THE ALTERNATE RAILING OPTION WILL REPLACE 20,479 POUNDS OF REINFORCEMENT AND 695 SQ. YD. OF SEALING.

DESIGN DETAILS ARE INCLUDED FOR BARRIER TRANSITIONS FOR STANDARD ODOT RAILING. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR TRANSITIONS OF THE ALTERNATE BID ITEM RAILING SELECTED. DESIGN DETAILS OF SIMILAR AESTHETIC RAILING TRANSITIONS ARE ON FILE WITH THE CITY FROM PREVIOUS PROJECTS SUCH AS THE FORMER COLUMBIA PARKWAY PROJECT. THE CONTRACTOR SHOULD CONTACT RICHARD SZEKERESH, P.E., PRINCIPAL STRUCTURAL ENGINEER FOR THE CITY OF CINCINNATI AT (513) 352-3419 OR richard.szekeresh@cincinnati-oh.gov FOR THESE DRAWINGS PRIOR TO DEVELOPING OR SUBMITTING SHOP DRAWINGS.

** CONCRETE FOR REAR ABUTMENT COLUMNS IS INCLUDED WITH THIS ITEM FOR PAYMENT.

DESIGN AGENCY



BURGESS & NIPLE

DATE

02-20-08

REVIEWED

RMK

STRUCTURE FILE NUMBER

311636

DRAWN

SJA

CHECKED

SJA

DESIGNED

XAC

ESTIMATED QUANTITIES

BRIDGE NO. HAM-264-1448

W.B. WARSAW AVE. RAMP OVER S.R. 264

HAM-50-18.79

PID No. 20082

6

34

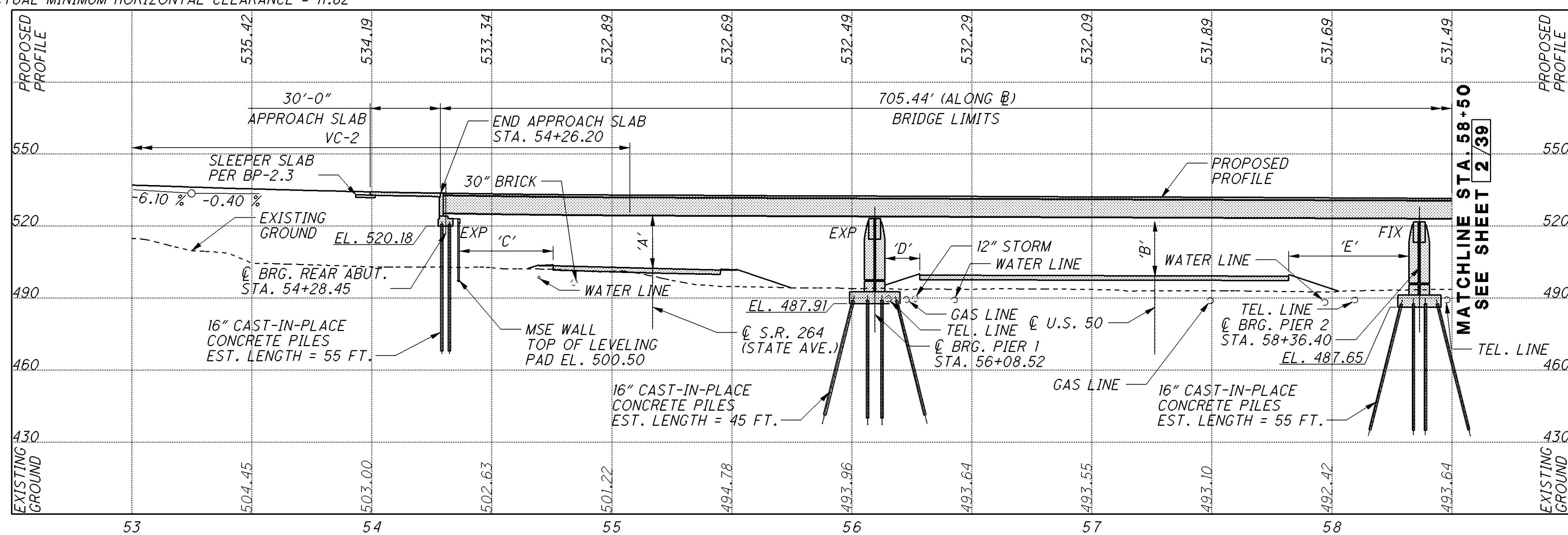
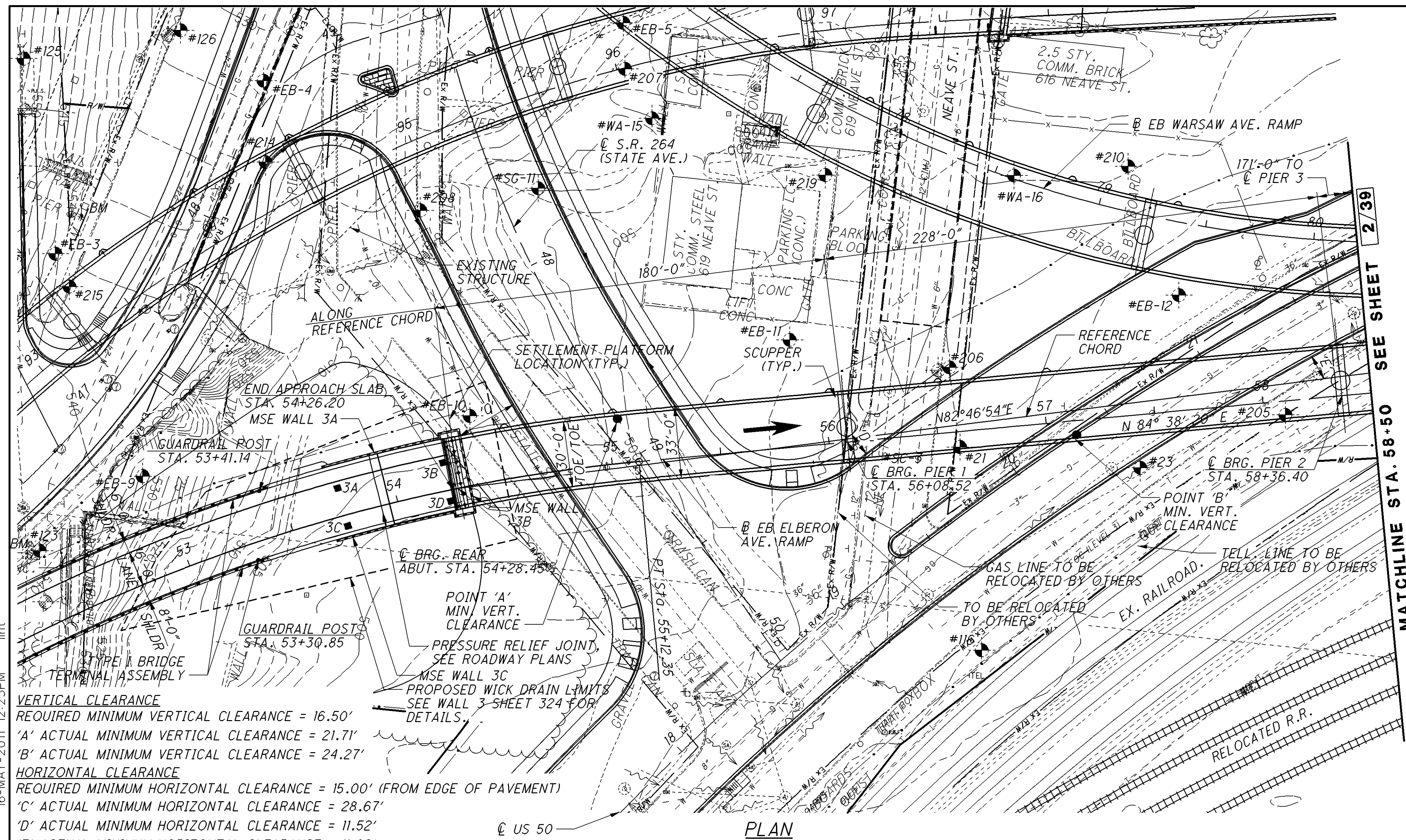
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657

SPECIAL	20307502	3	EACH	INCLINOMETER	1	2	3	5 X 3/4
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DESIGN DETAILS ARE INCLUDED FOR BARRIER TRANSITIONS FOR STANDARD ODOT RAILING. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR TRANSITIONS OF THE ALTERNATE BID ITEM RAILING SELECTED. DESIGN DETAILS OF SIMILAR AESTHETIC RAILING TRANSITIONS ARE ON FILE WITH THE CITY FROM PREVIOUS PROJECTS SUCH AS THE FORMER COLUMBIA PARKWAY PROJECT. THE CONTRACTOR SHOULD CONTACT RICHARD SZEKERESH, P.E., PRINCIPAL STRUCTURAL ENGINEER FOR THE CITY OF CINCINNATI AT (513) 352-3419 OR richard.szekeres@cityofcincinnati-oh.gov FOR THESE DRAWINGS PRIOR TO DEVELOPING OR SUBMITTING SHOP DRAWINGS.

409 657 6 / 34	HAM-50-18.79 PID No. 20082
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PROFILE ALONG ~~B~~ EB. ELBERON AVE. RAMP

BENCHMARK DATA

BM STA. 52+50.05 , ELEV. 541.03 , OFFSET 42.78' , LT.
CHISELED BENCH MARK FOUND

BM STA. 54+04.22 , ELEV. 508.93 , OFFSET 78.32' , LT.
PK NAIL SET

BM STA. 62+91.20 , ELEV. 493.11 , OFFSET 85.06' , LT.
PK NAIL FOUND

BM STA. 63+96.84 , ELEV. 493.63 , OFFSET 112.06' , LT.
BENCH MARK

NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

1996 ADT = 7,082 1996 ADTT = 284
2020 ADT = 9,171 2020 ADTT = 367

LEGEND:

 SOIL BORING LOCATION

CURVE DATA		
HORIZONTAL	VERTICAL	
<i>P.I. STA. 52+65.68</i> $\Delta = 37^{\circ}24'59''$ (RT) $D_c = 7^{\circ}18'11''$ $R = 784.56'$ $T = 265.68'$ $L = 512.35'$ $E = 43.77'$	VC-1 <i>P.V.I. STA 50+75.35</i> $ELEV = 548.82'$ $105.00' VC$ $\frac{-5.00\% \quad \bigcirc \quad -6.10\%}{}$	VC-2 <i>P.V.I. STA 53+25.00</i> $ELEV = 533.59'$ $364.99' VC$ $\frac{-6.10\% \quad \bigcirc \quad -0.40\%}{}$

EXISTING STRUCTURE

TYPE: 4-SPAN STEEL FRAMES WITH ALTERNATING SUSPENDED SPANS SUPPORTING A GIRDER - FLOORBEAM - STRINGER SYSTEM WITH REINFORCED CONCRETE DECK. THE SUPERSTRUCTURE IS SUPPORTED BY REINFORCED CONCRETE ABUTMENTS ON SPREAD FOOTINGS AND TAPERED, BUILT UP STEEL COLUMN STRADDLE BENTS ON PEDESTALS AND PILING.

LENGTH OF SPANS: 60.171', 84.254', 77.055' 57.668' (MEASURED
ALONG CHORDS BETWEEN $\odot$ BEARING ABUTMENT
AND PIERS)

ROADWAY WIDTH: VARIES 22'-24' FACE TO FACE CURB WITH 5' SIDEWALK

SKEW ANGLE: TANGENT
LOADING: POSTED 16 TON

DATE OF CONSTRUCTION: 1947

STRUCTURE FILE NO: 3102785

APPROACH SLAB: 25'-0" (ESTIMATED)

WEARING SURFACE: ASPHALT

PROPOSED STRUCTURE

TYPE: 4-SPAN CONTINUOUS COMPOSITE STEEL GIRDERS WITH
REINFORCED CONCRETE DECK, STUB ABUTMENTS,
AND T-TYPE PIERS. (A709 GRADE 50 STEEL)

SPANS: 180' - 228' - 171' - 121' C/C BRGS.
ALONG REFERENCE CHORD

ROADWAY: 30'-0" TOE/TOE PARAPET

LOADING: HS25 CASE II AND ALTERNATE MILITARY, FWS = 60 PSF
SKEW: NONE (RADIAL)

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG (AS-1-81)

ALIGNMENT: RIGHT CURVE (784.56' RADIUS), TANGENT, LEFT CURVE
(1,300' RADIUS)

SUPERELEVATION: VARIES TO 0.046 MAX.

COORDINATES: LATITUDE 39°06'04" N
LONGITUDE 84°33'10" W

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ITEM	EXTENSION	STRUCTURE TOTAL		UNIT	ESTIMATED QUANTITIES DESCRIPTION	HAM-050-1875				SEE SHEET NO.
		ODOT	CITY			ABUT.	PIER	SUPER.	GEN.	
202	11203	134		LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				134	4/39
202	22901			SO YD	APPROACH SLAB REMOVED, AS PER PLAN					4/39
SPECIAL	203E65000			EACH	SETTLEMENT PLATFORM	7				
503	11100	1		LUMP	COFFERDAMS AND EXCAVATION BRACING					4/39
503	21300	1		LUMP	UNCLASSIFIED EXCAVATION					
505	11100	1		LUMP	PILE DRIVING EQUIPMENT MOBILIZATION					
507	00700	4,645		FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	1,165	3,480			
507	00750	5,100		FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1,260	3,840			
509	10000	356,968		LB	EPOXY COATED REINFORCING STEEL	15,101	106,280	235,587		
512	10001	84		SO YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)		84			4/39
512	10050	1,763		SO YD	SEALING OF CONCRETE SURFACES (NON-EPOXY)	141		1,622		
512	10100	404		SO YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		404			
513	10300	1,484,020		LB	STRUCTURAL STEEL MEMBERS, LEVEL 5			1,484,020		
513	20000	5,432		EACH	WELDED STUD SHEAR CONNECTORS			5,432		
514	00060	62,649		SO FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			62,649		
514	00066	62,649		SO FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			62,649		
514	10000	26		EACH	FINAL INSPECTION REPAIR			26		
516	11211	33		FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (5" SEAL)			33		10/39
516	11211	33		FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (4" SEAL)			33		12/39
516	13600	37		SO FT	1" PREFORMED EXPANSION JOINT FILLER			37		
516	13900	75		SO FT	2" PREFORMED EXPANSION JOINT FILLER			75		
516	44301	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (20" x 26" x 4 ⁵ / ₁₆ " BEARING WITH 21" x 39" LOAD PLATE		4			23/39
516	44301	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16" x 24" x 4 ⁵ / ₁₆ " BEARING WITH 17" x 25" LOAD PLATE		4			23/39
516	44401	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (10" x 15" x 5 ¹ / ₁₆ " BEARING WITH 11" x 20" LOAD PLATE	4				23/39
516	44401	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (22" x 28" x 6 ⁷ / ₁₆ " BEARING WITH 23" x 29" LOAD PLATE		4			23/39
516	44401	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12" x 20" x 6 ³ / ₄ " BEARING WITH 13" x 26" LOAD PLATE	4				23/39
517	76300		1,467	FT	RAILING, MISC.: RAILING ALTERNATE, MINNESOTA RAILING (SEE NOTE 2)			1,467		
518	12300	9		EACH	SCUPPERS, INCLUDING SUPPORTS			9		
518	51100	430		FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS			430		
523	20000	5		EACH	DYNAMIC LOAD TESTING	2	3			
SPECIAL	690E98400	1		LUMP	SPECIAL-MISC.: TEMPORARY SURCHARGE					
898	10201	707		CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			707		4/39
898	10709	111		SO YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN			111		4/39
898	11000	180		CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET)			180		
898	20100	268		CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		268			
898	20160	135		CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	135				
898	20300	245		CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (FOOTING)		245			

NOTES:

1. FOR LIST OF ABBREVIATIONS SEE SHEET 5/39.

2. RAILING, MISC: RAILING ALTERNATIVE, MINNESOTA RAILING IS A REQUIRED BID ITEM. IF SELECTED BY THE OWNER IT WILL REPLACE BID ITEM 898: QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET). CONCRETE IN ALTERNATE RAILING SHALL BE QC/QA CONCRETE, CLASS OSC2. IF SELECTED BY THE OWNER ALTERNATE RAILING AND ALL NECESSARY TRANSITIONS SHALL BE DETAILED PER MINNESOTA STANDARD DRAWING FIGURE 5-397.157 AND SUBMITTED FOR SHOP DRAWING REVIEW PRIOR TO FABRICATION. THE COST OF ALL LABOR MATERIALS, AND EQUIPMENT NECESSARY FOR PAINTING, REINFORCEMENT, SEALING, RAILINGS, AND SHOP DRAWING PREPARATION SHALL BE INCLUDED WITH THIS ITEM FOR PAYMENT. SEE SHEET 4/39 FOR COLOR REQUIREMENTS. ALL REINFORCEMENT SHALL BE EPOXY COATED. THE ALTERNATE RAILING OPTION WILL REPLACE 37,888 POUNDS OF REINFORCEMENT AND 1,182 SQ.YD. OF SEALING.

CALC. BY: BKJ DATE: 8-07
CHK'D BY: P.JL DATE: 9-07

ESTIMATED QUANTITIES
BRIDGE NO. HAM-050-1875
EB ELBERON AVE. RAMP OVER S.R. 264 AND U.S.R. 50

HAM-50-18.79
PID No. 20082

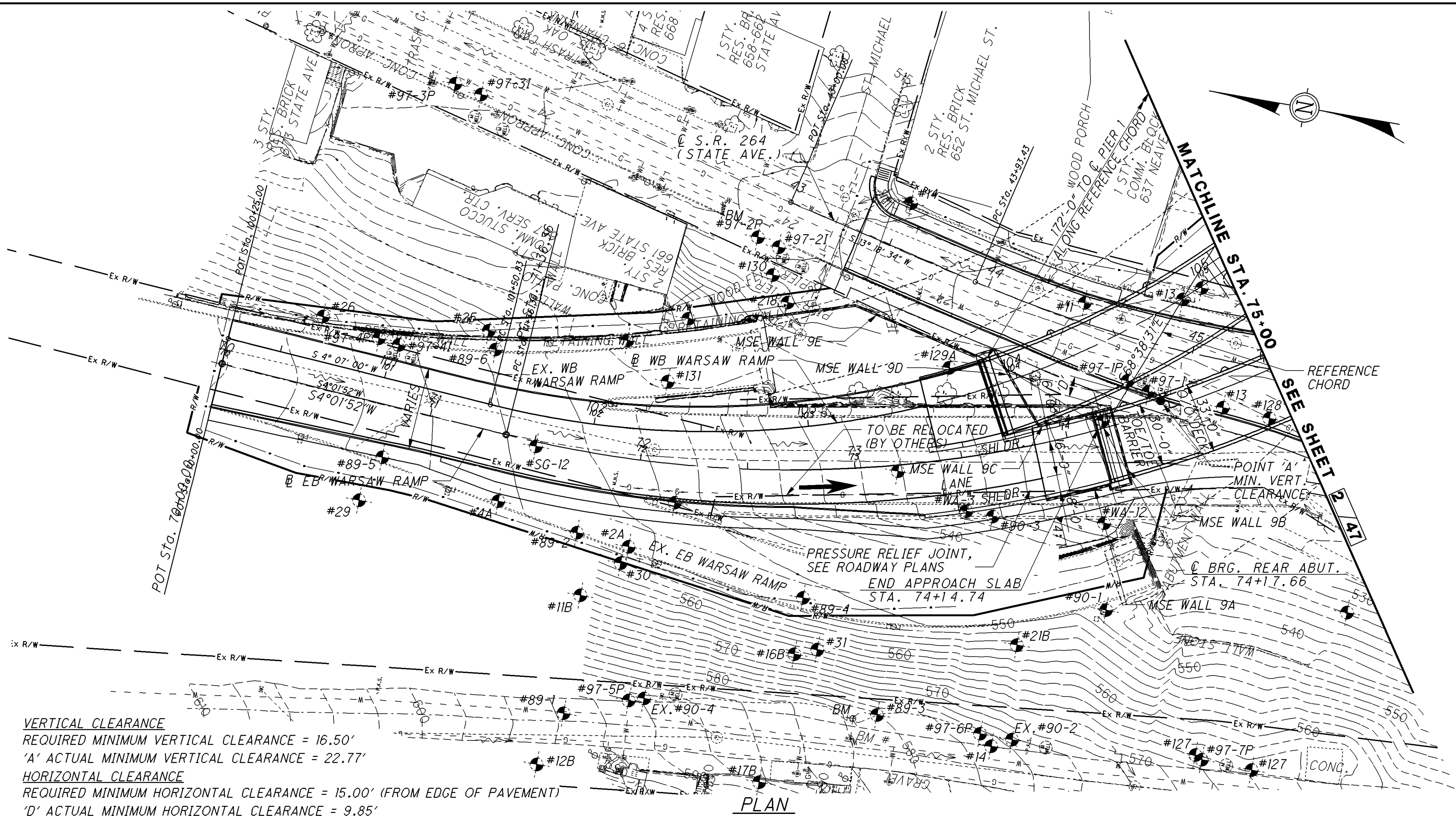
6/39

443
657

DESIGN AGENCY
PB AMERICAS, INC.
312 ELM STREET
SUITE 2500
CINCINNATI, OHIO 45202

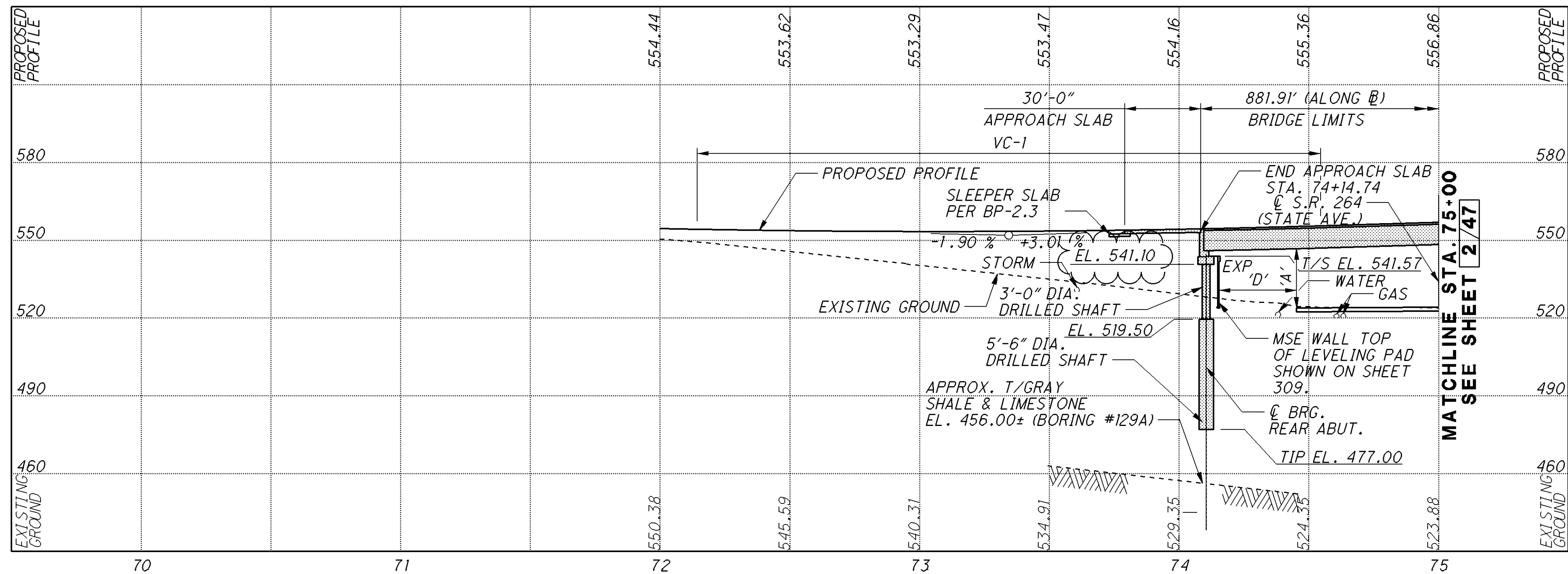
DATE
11/16/10
REVIEWED
EBS
STRUCTURE FILE NUMBER
3102793

DRAWN
LEL
CHECKED
SAP



VERTICAL CLEARANCE
REQUIRED MINIMUM VERTICAL CLEARANCE = 16.50'
'A' ACTUAL MINIMUM VERTICAL CLEARANCE = 22.77'

HORIZONTAL CLEARANCE
REQUIRED MINIMUM HORIZONTAL CLEARANCE = 15.00' (FROM EDGE OF PAVEMENT)
'D' ACTUAL MINIMUM HORIZONTAL CLEARANCE = 9.85'



PROFILE ALONG EB WARSAW AVE. RAMP

BENCHMARK DATA

BM STA. 72+29.05 , ELEV. 520.21 , OFFSET 116.15' , LT.
PK NAIL FOUND

BM STA. 72+94.26 , ELEV. 583.44 , OFFSET 116.32' , RT.
BENCH MARK

BM STA. 84+35.65 , ELEV. 493.11 , OFFSET 49.60' , LT.
PK NAIL FOUND

BM STA. 85+57.92 , ELEV. 493.63 , OFFSET 79.64' , LT.
BENCH MARK

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

1996 ADT = 5,065 1996 ADTT = 203
2020 ADT = 6,559 2020 ADTT = 263

LEGEND

SOIL BORING LOCATION

CURVE DATA

HORIZONTAL	VERTICAL
P.I. STA. 77+55.47 $\Delta = 96^{\circ}45'57''$ (LT) $D_c = 10^{\circ}25'03''$ $R = 550.00'$ $T = 619.11'$ $L = 928.89'$ $E = 278.13'$	VC-1 P.V.I. STA. 73+34.46 ELEV = 551.89' 240.39' VC K=49 -1.90 % +3.01 %

EXISTING STRUCTURE

TYPE: 4-SPAN STEEL FRAMES WITH ALTERNATING SUSPENDED SPANS SUPPORTING A GIRDER - FLOORBEAM - STRINGER SYSTEM WITH REINFORCED CONCRETE DECK. THE SUPERSTRUCTURE IS SUPPORTED BY REINFORCED CONCRETE ABUTMENTS ON SPREAD FOOTINGS AND TAPERED, BUILT UP STEEL COLUMNS STRADDLE BENTS ON DRILLED CAISONS OR PEDESTALS AND PILING.

LENGTH OF SPANS: 62.518', 92.218', 54.588', 55.479' (C/C BRGS. MEASURED ALONG CHORDS BETWEEN ABUTMENT AND PIERS)

ROADWAY WIDTH: 24' FACE TO FACE CURB

SKREW ANGLE: VARIES

LOADING: POSTED 16 TON

DATE OF CONSTRUCTION: 1947

STRUCTURE FILE NO. 3102785

APPROACH SLAB: 25'-0" (ESTIMATED)

WEARING SURFACE: ASPHALT

PROPOSED STRUCTURE

TYPE: 5-SPAN CONTINUOUS COMPOSITE STEEL GIRDERS WITH REINFORCED CONCRETE DECK, STUB ABUTMENTS, AND T-TYPE PIERS. (A709 GRADE 50 STEEL)

SPANS: 172' - 155' - 116' - 192' - 172' C/C BEARINGS ALONG REFERENCE CHORD

ROADWAY: 30'-0" TOE/TOE PARAPET

LOADING: HS25 CASE II AND ALTERNATE MILITARY, FWS = 60 PSF

SKREW: NONE (RADIAL)

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: 30'-0" LONG (AS-I-81)

ALIGNMENT: CURVE LEFT (RADIUS 550') TO CURVE LEFT (RADIUS 2684.87')

SUPERELEVATION: VARIES TO 0.046 MAX.

COORDINATES: LATITUDE 41°40'07" N
LONGITUDE 88°12'44" W

ITEM	EXTENSION	STRUCTURE TOTAL		UNIT	ESTIMATED QUANTITIES DESCRIPTION	HAM-050-1881				SEE SHEET NO.
		ODOT	CITY			ABUT.	PIER	SUPER.	GEN.	
202	11203	134		LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER				134	5/47
202	22901			SQ YD	APPROACH SLAB REMOVED, AS PER PLAN					5/47
SPECIAL	203E65000			EACH	SETTLEMENT PLATFORM	4				
SPECIAL	203E07502		1	EACH	INCLINOMETER	1				
503	11100	1		LUMP	COFFERDAMS AND EXCAVATION BRACING					
503	21300	1		LUMP	UNCLASSIFIED EXCAVATION					
505	11100	1		LUMP	PILE DRIVING EQUIPMENT MOBILIZATION					
507	00700	6,190		FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	630	5,560			
507	00750	6,755		FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	675	6,080			
509	10000	499,718		POUND	EPOXY COATED REINFORCING STEEL	14,995	157,261	327,462		
512	10001	112		SQ YD	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)		112			5/47
512	10050	2,108		SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY)	133		1,975		
512	10100	1,302		SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		1,302			
513	10300	1,827,097		POUND	STRUCTURAL STEEL MEMBERS, LEVEL 5			1,827,097		
513	20000	5,910		EACH	WELDED STUD SHEAR CONNECTORS			5,910		
513	95030	2		EACH	STRUCTURAL STEEL, MISC.: SURVEY PRISM MOUNTS			2		
514	00060	77,023		SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			77,023		
514	00066	77,023		SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			77,023		
514	10000	31		EACH	FINAL INSPECTION REPAIR			31		
516	11211	65		FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN			65		11&13/47
516	13600	25		SQ FT	1" PREFORMED EXPANSION JOINT FILLER			25		
516	13900	79		SQ FT	2" PREFORMED EXPANSION JOINT FILLER			79		
516	44401	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (20" x 20" x 14¼" BEARING WITH 21" x 21" x 2" LOAD PLATE)	4				30/47
516	44401	16		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (22" x 24" x 8⅝" BEARING WITH 23" x 25" x 2" LOAD PLATE)		16			30/47
516	44401	4		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16" x 20" x 11⅝" BEARING WITH 17" x 21" x 2" LOAD PLATE)	4				30/47
517	76300		1,840	FT	RAILING, MISC.: RAILING ALTERNATE, MINNESOTA RAILING (SEE NOTE 2)			1,840		
518	12300	5		EACH	SCUPPERS, INCLUDING SUPPORTS			5		
518	51100	235		FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS			235		
523	20000	4		EACH	DYNAMIC LOAD TESTING	1	3			
524	94702	86		FT	DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK	86				
524	94930	170		FT	DRILLED SHAFTS, 66" DIAMETER, ABOVE BEDROCK	170				
SPECIAL	690E98400	1		LUMP	SPECIAL-MISC.: TEMPORARY SURCHARGE					
898	10201	1,063		CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			1,063		5/47
898	10709	323		SQ YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN			323		5/47
898	11000	236		CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET)			236		
898	20100	447		CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		447			
898	20160	135		CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	135				
898	20300	351		CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (FOOTING)		351			

NOTES:

1. FOR LIST OF ABBREVIATIONS SEE SHEET 6/47.

2. RAILING, MISC: RAILING ALTERNATIVE, MINNESOTA RAILING IS A REQUIRED BID ITEM. IF SELECTED BY THE OWNER IT WILL REPLACE BID ITEM 898: QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET). CONCRETE IN ALTERNATE RAILING SHALL BE QC/QA CONCRETE, CLASS OSC2. IF SELECTED BY THE OWNER ALTERNATE RAILING AND ALL NECESSARY TRANSITIONS SHALL BE DETAILED PER MINNESOTA STANDARD DRAWING FIGURE 5-397.157 AND SUBMITTED FOR SHOP DRAWING REVIEW PRIOR TO FABRICATION. THE COST OF ALL LABOR MATERIALS, AND EQUIPMENT NECESSARY FOR PAINTING, REINFORCEMENT, SEALING, RAILINGS, AND SHOP DRAWING PREPARATION SHALL BE INCLUDED WITH THIS ITEM FOR PAYMENT. SEE SHEET 5/47 FOR COLOR REQUIREMENTS. ALL REINFORCEMENT SHALL BE EPOXY COATED. THE ALTERNATE RAILING OPTION WILL REPLACE 47,363 POUNDS OF REINFORCEMENT AND 1,471 SQ.YD. OF SEALING.

CALC. BY: BKJ DATE: 3/2008
CHK'D BY: P.JL DATE: 3/2008

						CALCULATED BY: RBK		DATE: 02/25/09		
						CHECKED BY: DAT		DATE: 02/27/09		
PARTICIPATION	ESTIMATED QUANTITIES									
100% DISTRICT	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	A.P.P.
LUMP	202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	5/65
LUMP	503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	5/65
LUMP	503	21300	LUMP		UNCLASSIFIED EXCAVATION				LUMP	
LUMP	505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
1870	507	00500	1870	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	1430	440			
440	507	00501	440	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN, AS PER PLAN		440			5/65
2500	507	00550	2500	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1540	960			
1980	507	00600	1980	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		1980			
2160	507	00650	2160	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		2160			
142793	509	10000	142793	POUND	EPOXY COATED REINFORCING STEEL	10226	24568	107999		
936	512	10100	936	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	82	291	471	92	
4	512	33000	4	SQ YD	TYPE 2 WATERPROOFING	4				
324089	513	10240	324089	POUND	STRUCTURAL STEEL MEMBERS, LEVEL 2			324089		
3969	513	20000	3969	EACH	WELDED STUD SHEAR CONNECTORS			3969		
14548	514	00060	14548	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			14548		
14548	514	00066	14548	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			14548		
7	514	10000	7	EACH	FINAL INSPECTION REPAIR			7		
66	516	11210	66	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			66		
14	516	13600	14	SQ FT	1" PERFORMED EXPANSION JOINT FILLER			14		
352	516	13900	352	SQ FT	2" PREFORMED EXPANSION JOINT FILLER	21		331		
100	516	14021	100	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN	100				5/65
7	516	44100	7	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 15"x15"x2½" BEARING WITH 16"x16" LOAD PLATE			7		
7	516	44100	7	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 19"x19"x2½" BEARING WITH 27"x21" LOAD PLATE			7		
7	516	44100	7	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 16"x12"x2½" BEARING WITH 18"x14" LOAD PLATE			7		
154	517	75120	154	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)			154		
3	518	12201	3	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			3		65/65
55	518	21200	55	CU YD	POROUS BACKFILL WITH FILTER FABRIC				55	
67	518	40000	67	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				67	
48	518	51101	48	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN			48		65/65
8	519	11101	8	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN		8			5/65
3	523	20000	3	EACH	DYNAMIC LOAD TESTING	1	2			
29	898	10200	29	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (DECK)			29		
345	898	10201	345	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			345		5/65
223	898	10709	223	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN				223	5/65
51	898	11000	51	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET)			47	4	
67	898	20100	67	CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		67			
72	898	20160	72	CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	72				
81	898	20300	81	CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (FOOTING)		81			

						CALCULATED BY: RBK		DATE: 02/25/09		
						CHECKED BY: DAT		DATE: 02/27/09		
PARTICIPATION	ESTIMATED QUANTITIES									
100% DISTRICT	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	A.P.P.
LUMP	202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	5/65
LUMP	503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	5/65
LUMP	503	21300	LUMP		UNCLASSIFIED EXCAVATION				LUMP	
LUMP	505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
1370	507	00500	1370	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	1100	270			
270	507	00501	270	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN, AS PER PLAN		270			5/65
1800	507	00550	1800	FT	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1200	600			
1125	507	00600	1125	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		1125			
1250	507	00650	1250	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		1250			
123826	509	10000	123826	POUND	EPOXY COATED REINFORCING STEEL	8834	24569	90423		
640	512	10100	640	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	73	247	268	52	
4	512	33000	4	SQ YD	TYPE 2 WATERPROOFING	4				
277593	513	10240	277593	POUND	STRUCTURAL STEEL MEMBERS, LEVEL 2			277593		
3402	513	20000	3402	EACH	WELDED STUD SHEAR CONNECTORS			3402		
12470	514	00060	12470	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			12470		
12470	514	00066	12470	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			12470		
6	514	10000	6	SQ YD	FINAL INSPECTION REPAIR			6		
58	516	11210	58	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			58		
10	516	13600	10	SQ FT	1" PERFORMED EXPANSION JOINT FILLER			10		
352	516	13900	352	SQ FT	2" PREFORMED EXPANSION JOINT FILLER	21		331		
82	516	14021	82	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN	82				5/65
6	516	44100	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 15"x15"x2½" BEARING WITH 16"x16" LOAD PLATE			6		
6	516	44100	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 19"x19"x2½" BEARING WITH 27"x21" LOAD PLATE			6		
6	516	44100	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 16"x12"x2½" BEARING WITH 18"x14" LOAD PLATE			6		
LUMP	516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LUMP		15/65
3	518	12201	3	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			3		65/65
49	518	21200	49	CU YD	POROUS BACKFILL WITH FILTER FABRIC				49	
58	518	40000	58	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				58	
15	518	40012	15	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE				15	
48	518	51101	48	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN			48		65/65
5	519	11101	5	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN		5			5/65
26	898	10200	26	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK)			29		
282	898	10201	282	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			282		5/65
198	898	10709	198	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN				198	5/65
47	898	11000	47	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)			43	4	
52	898	20100	52	CU YD	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		52			
64	898	20160	64	CU YD	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	64				
63	898	20300	63	CU YD	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (FOOTING)		63			