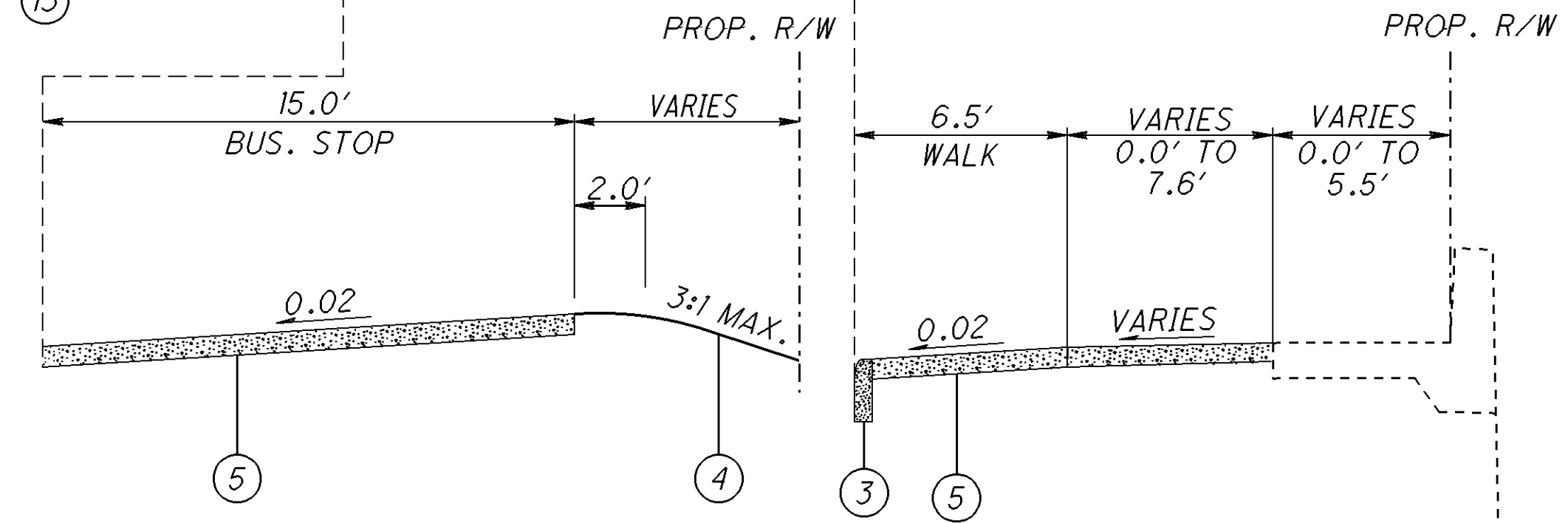
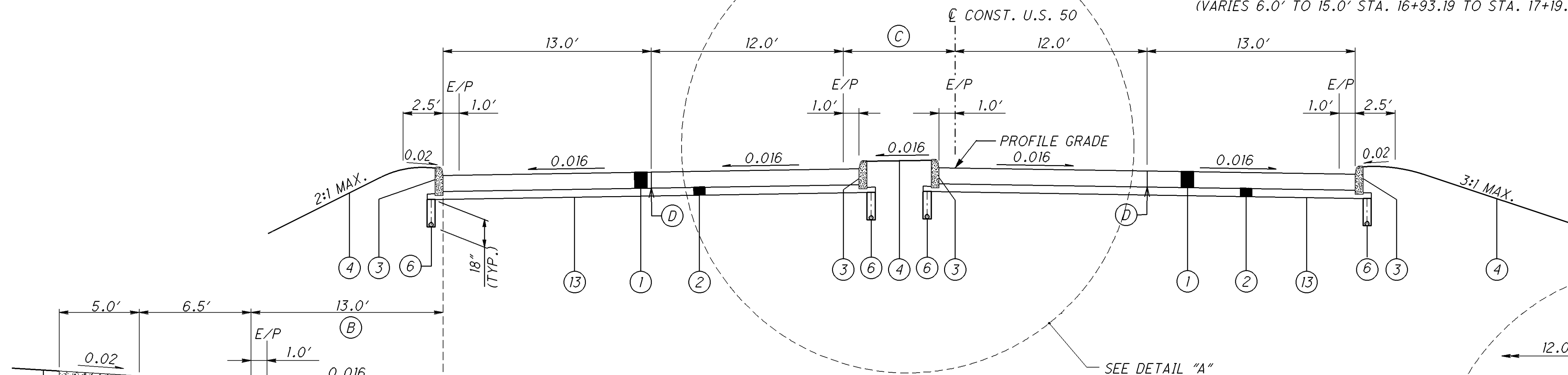


NOTES:

- (A) VARIES 11.27' TO 13.0' STA. 11+54.26 TO STA. 11+76.57
- (B) VARIES 13.0' TO 1.0' STA. 21+08.52 TO STA. 21+73.30
- (C) VARIES 12.0' TO 3.53' STA. 18+65.00 TO STA. 24+40.90, END RAISED MEDIAN AT STA. 23+44.92
- (D) LONGITUDINAL JOINT AS PER BP-2.1



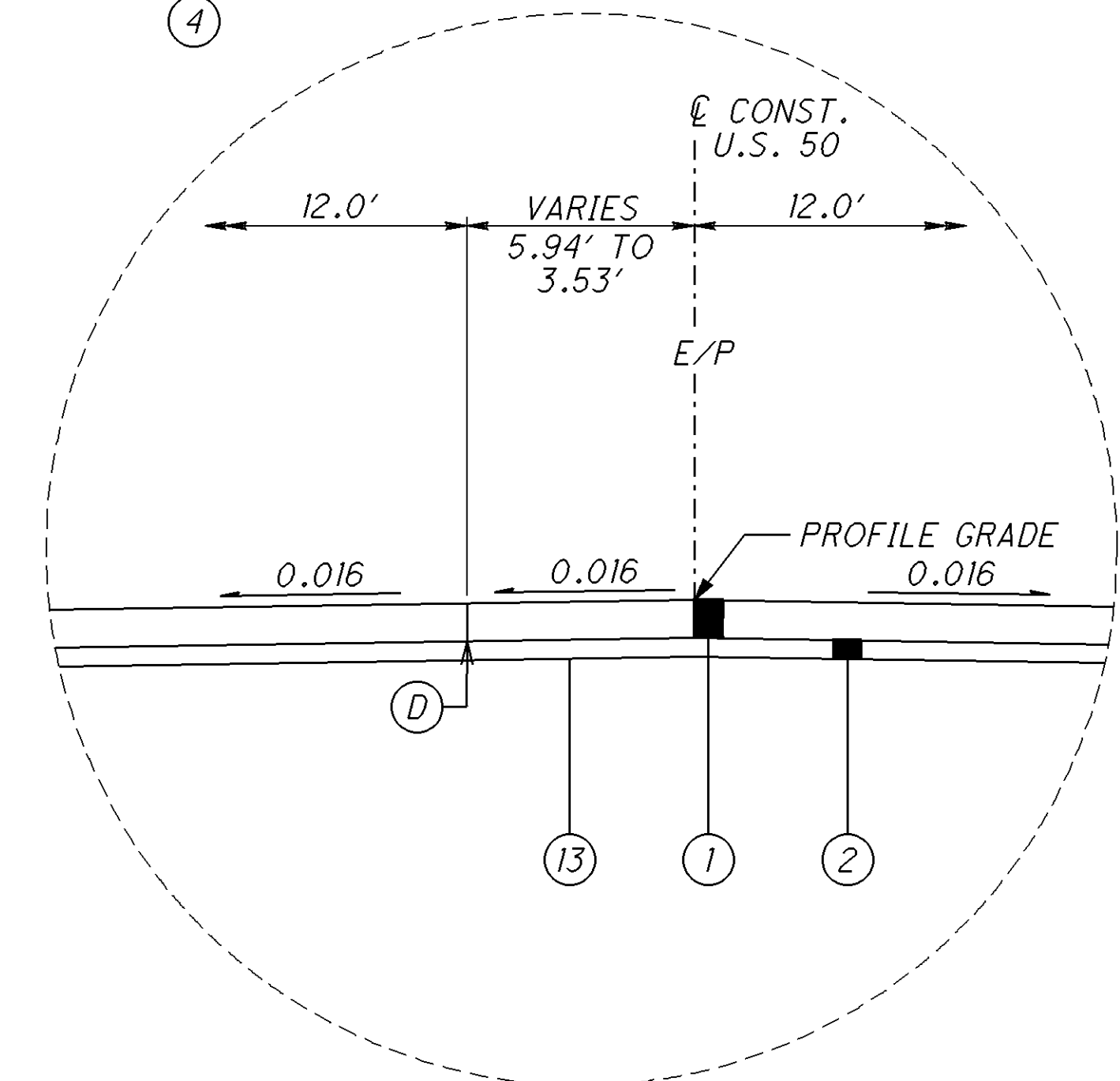
EX BARRIER SECTION
LIMITS: STA. 11+54.26 TO STA. 15+20.00



RIGHT TURN LANE - U.S. 50
LIMITS: STA. 19+41.82 TO STA. 21+73.26

- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (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



NOTE:

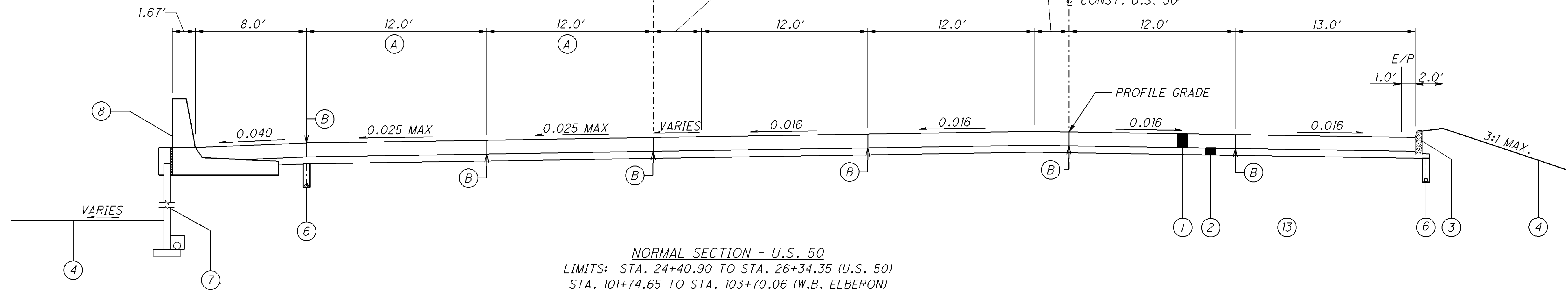
W.B. ELBERON AVE. ENDS STA. 103+70.06 = U.S. 50 STA. 26+34.35

CONST. W.B. ELBERON AVE.

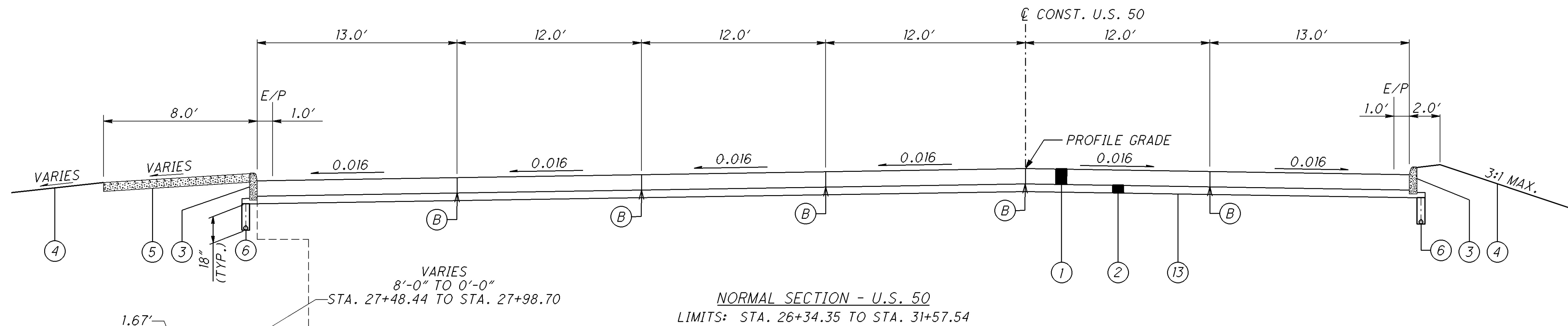
GORE AREA
VARIES 16'-0" TO 0'-0"
STA. 24+40.90 TO STA. 26+13.71

3.53' TO 0.00'
STA. 24+40.90 TO STA. 26+34.35

CONST. U.S. 50



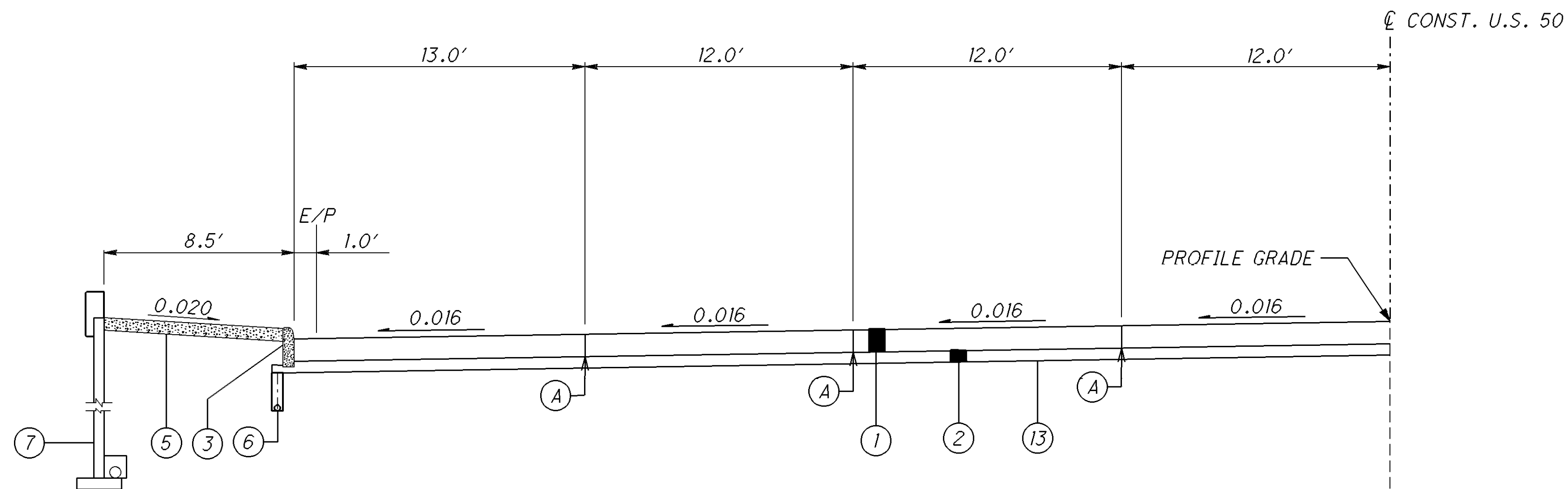
- (A) VARIES 13.6' TO 12.0' STA 24+40.90 TO STA. 25+52.28
(B) LONGITUDINAL JOINT AS PER BP-2.1



- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
(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

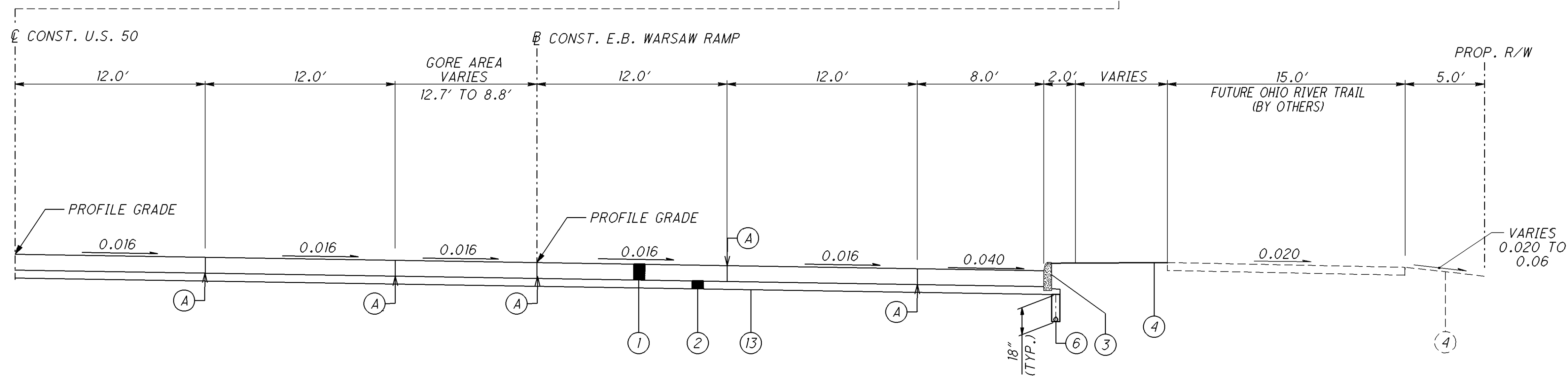
LIMITS: STA. 25+44.65 TO STA. 27+31.07



NOTES:

(A) LONGITUDINAL JOINT AS PER BP-2.1

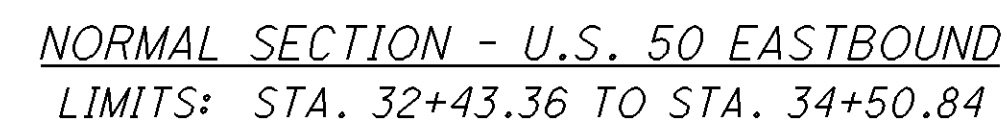
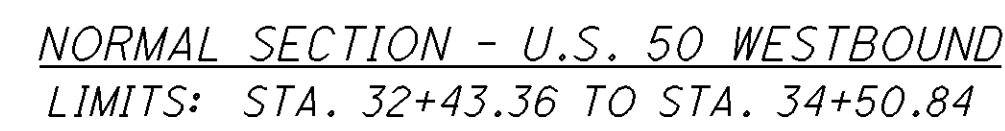
NORMAL SECTION - U.S. 50 WESTBOUND
LIMITS: STA. 31+57.54 TO STA. 32+43.36



NORMAL SECTION - U.S. 50 EASTBOUND
LIMITS: STA. 31+57.54 TO STA. 32+43.36

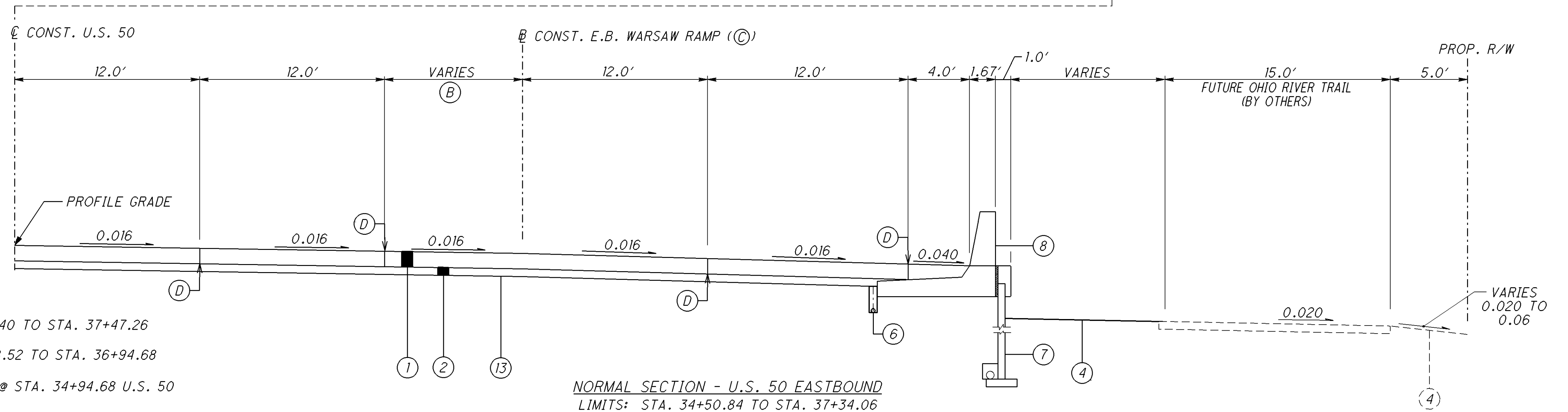
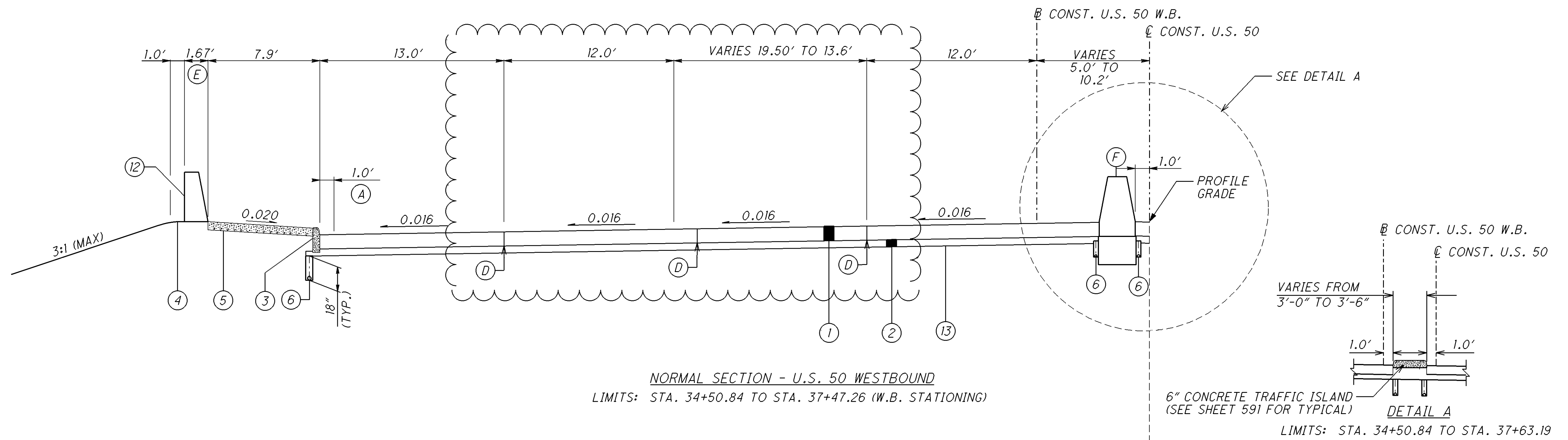
- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (2) ITEM 304 - 6" AGGREGATE BASE
- (3) ITEM 609 - CURB, TYPE 6
- (4) ITEM 659 - SEEDING AND MULCHING
- (5) ITEM 608 - 5" CONCRETE WALK
- (6) ITEM 605 - 6" BASE PIPE UNDERDRAINS
- (7) ITEM 840 - MECHANICALLY STABILIZED 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



- 1 ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- 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)

- # TYPICAL SECTIONS (U.S. 50)

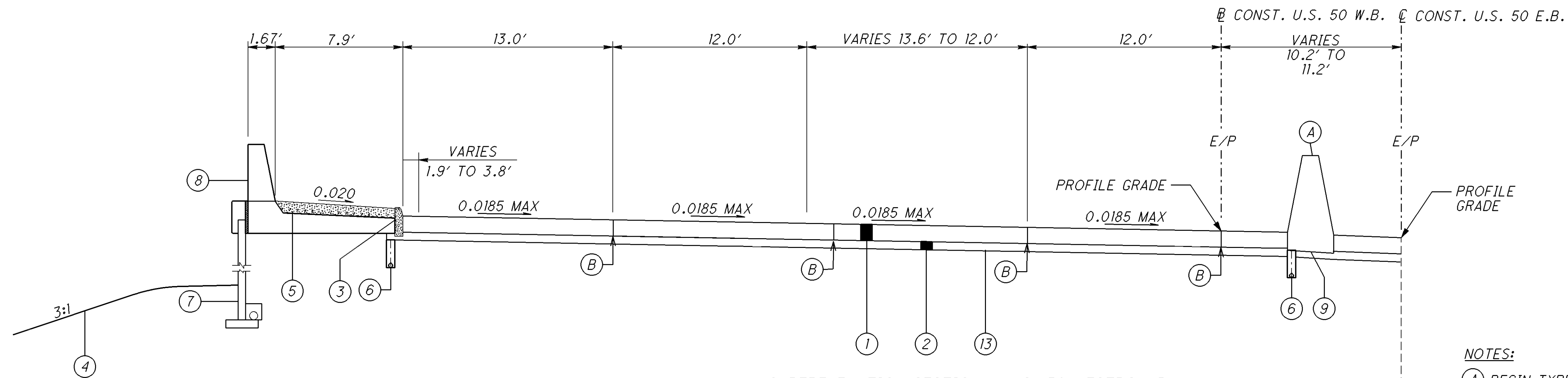


NOTES:

- (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 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (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)

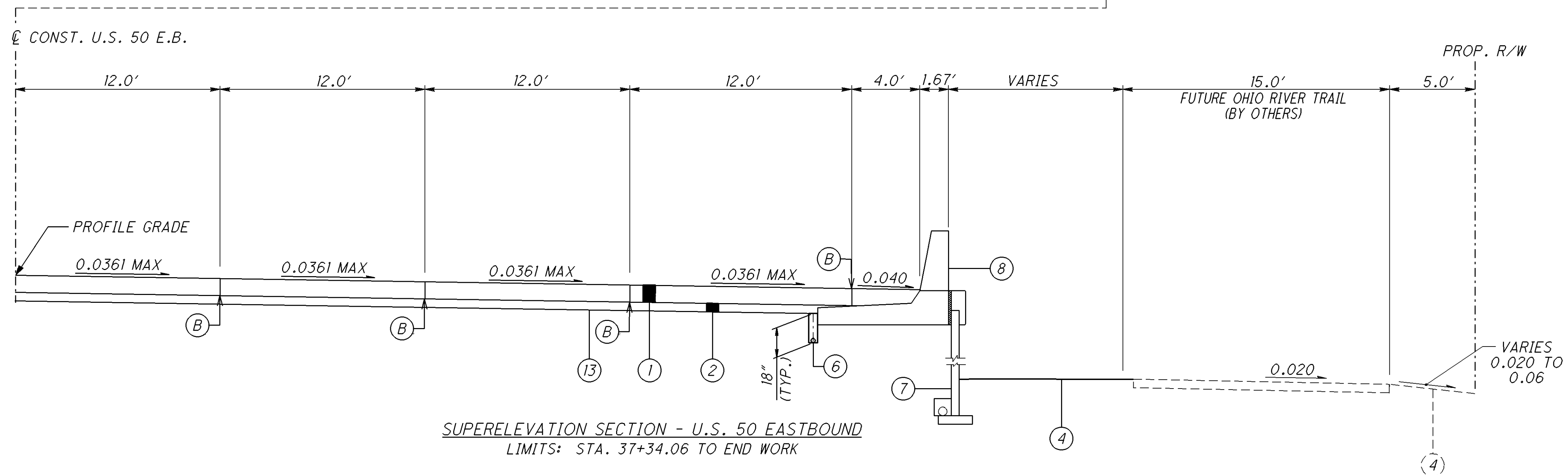
- (9) ITEM 622 - CONCRETE BARRIER, TYPE C1
- (10) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=17")
- (11) ITEM 606 - GUARDRAIL, TYPE 5
- (12) ITEM 622 - CONCRETE BARRIER, TYPE D
- (13) ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING



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

NOTES:

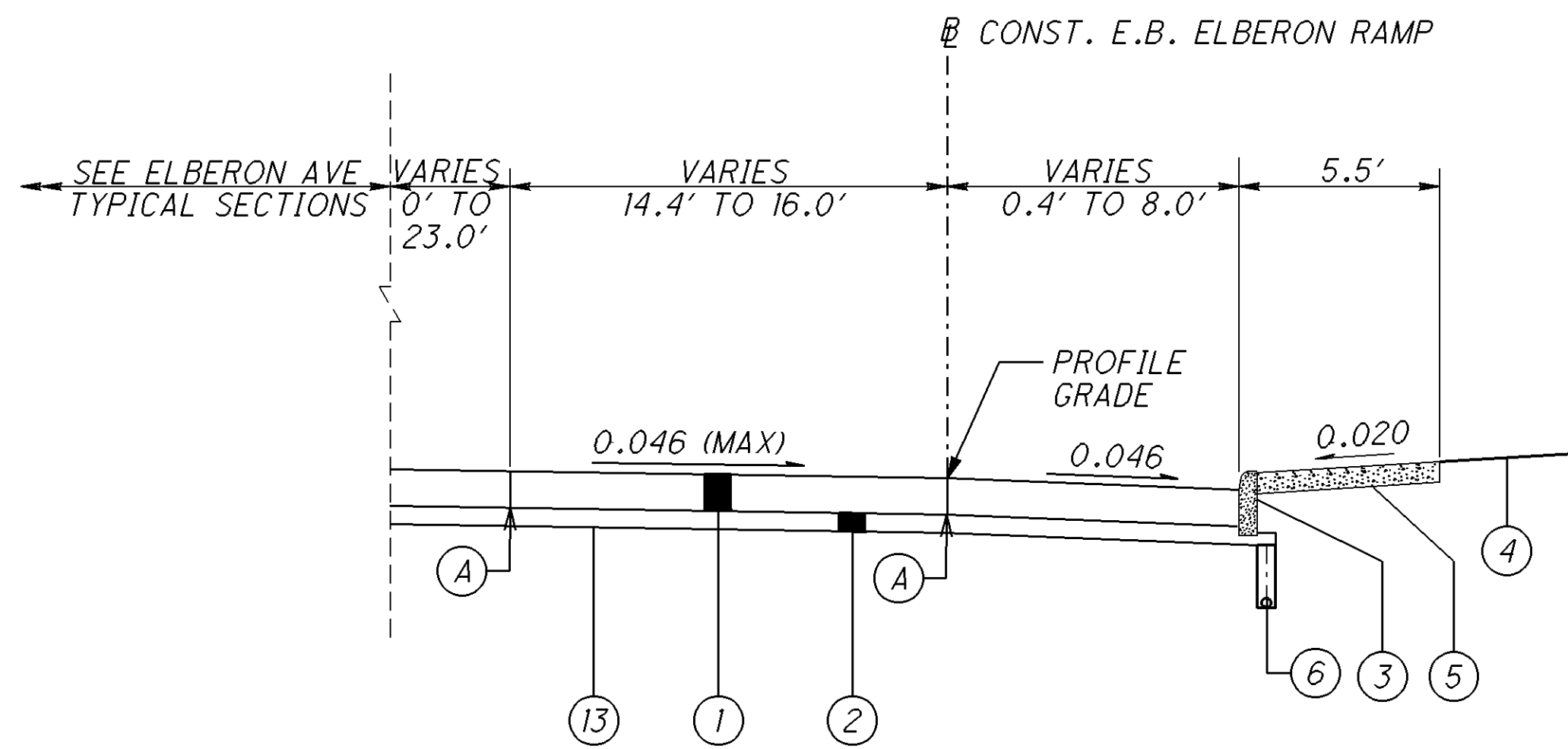
- (A) BEGIN TYPE C1 MEDIAN BARRIER STA 38+77.00 (SEE SHEETS 9 AND 591 FOR TYPICAL SECTIONS)
- (B) LONGITUDINAL JOINT PER BP-2.1



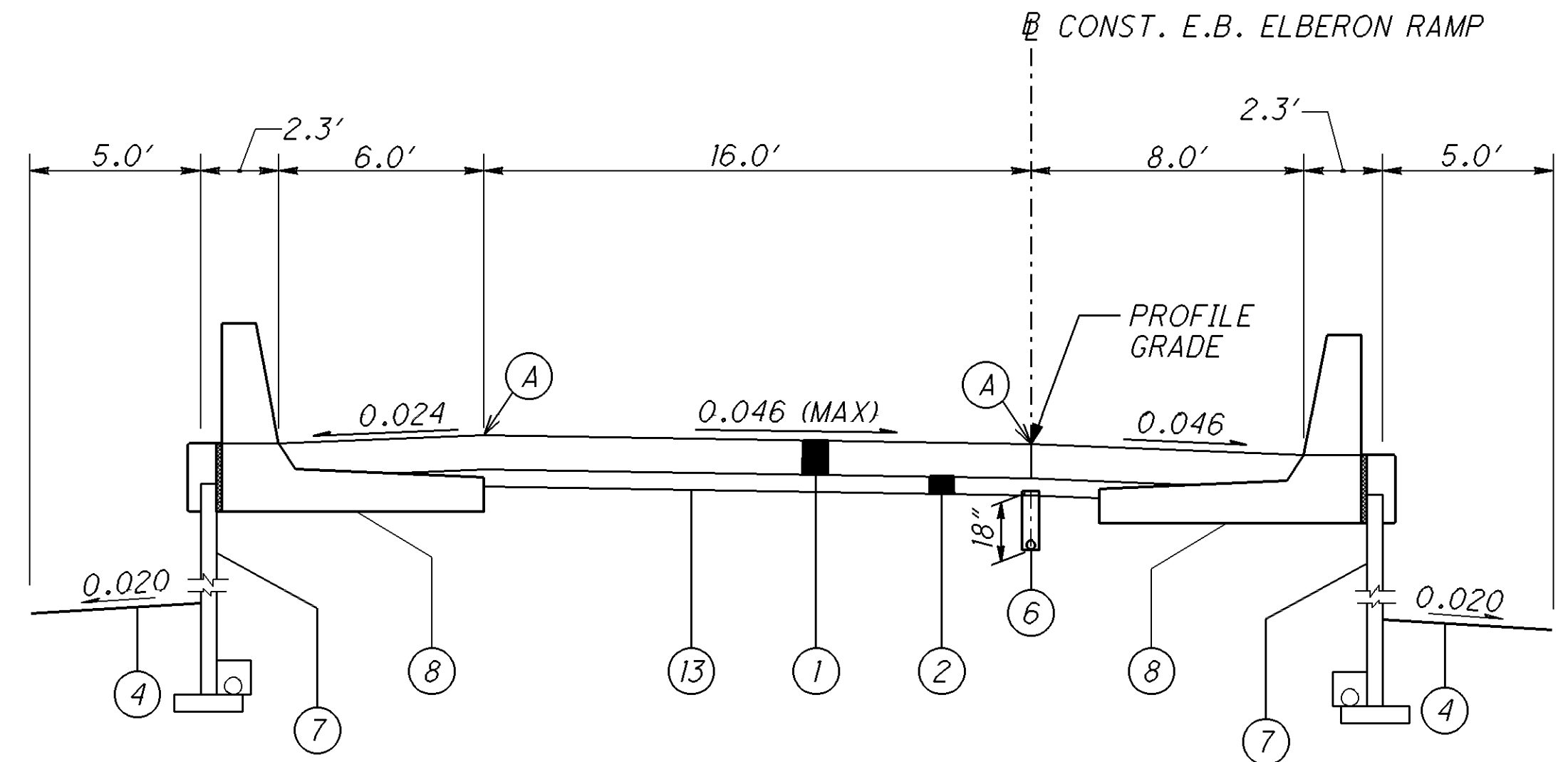
SUPERELEVATION SECTION - U.S. 50 EASTBOUND
LIMITS: STA. 37+34.06 TO END WORK

- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (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



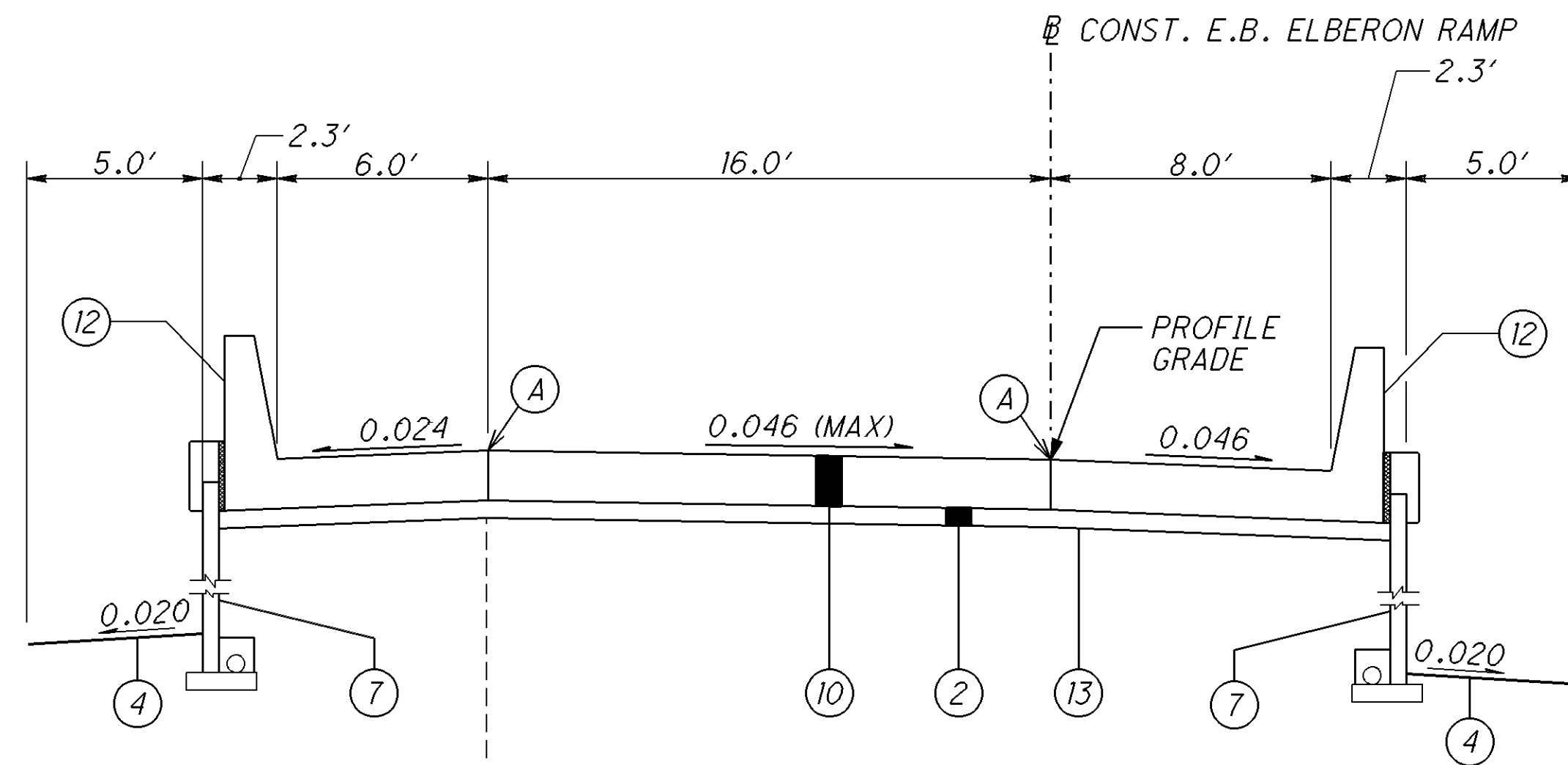
SUPERELEVATION SECTION (RT) - ELBERON EASTBOUND RAMP
LIMITS: STA. 50+00.00 TO STA. 52+05.51



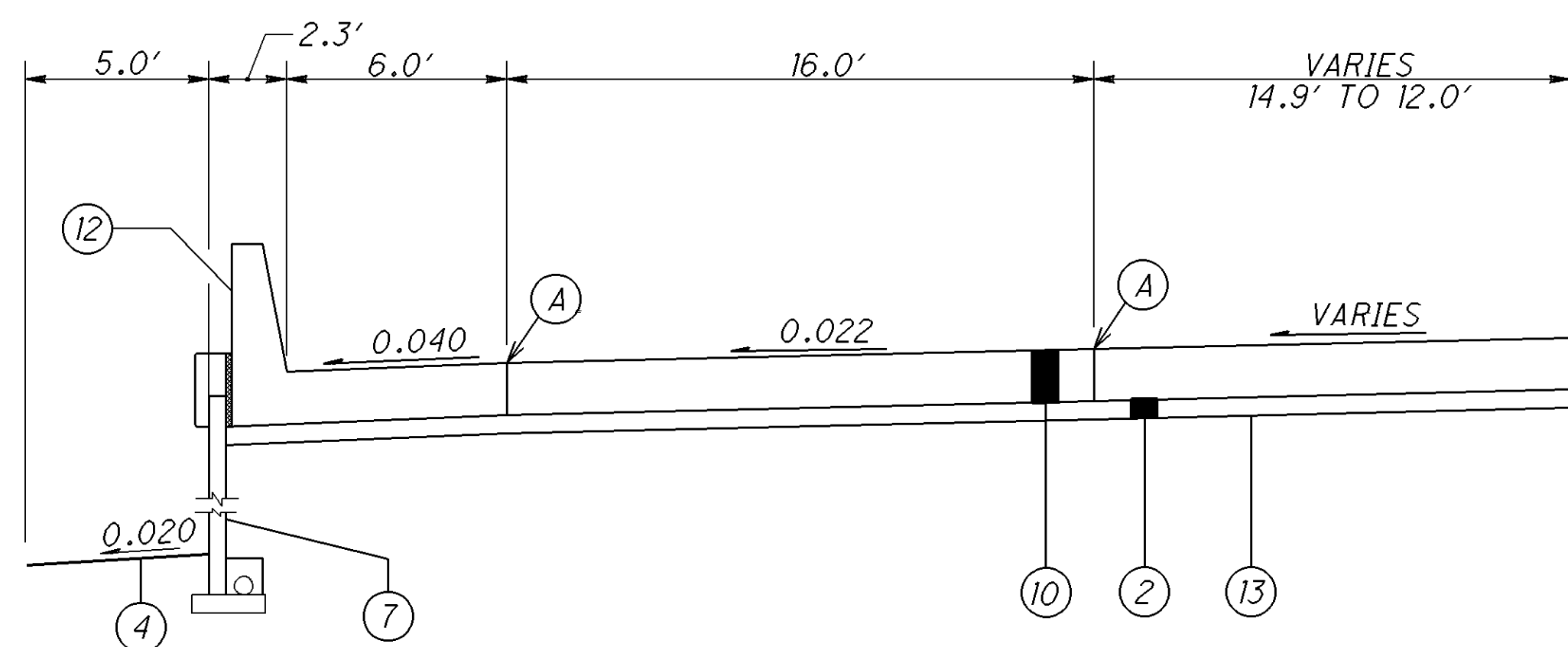
SUPERELEVATION SECTION (RT) - ELBERON EASTBOUND RAMP
LIMITS: STA. 52+05.51 TO STA. 53+96.20

NOTES:

- (A) LONGITUDINAL JOINT PER BP-2.1



APPROACH SLAB SECTION - ELBERON EASTBOUND RAMP
LIMITS: STA. 53+96.20 TO STA. 54+26.20
STA. 61+31.48 TO STA. 61+61.48

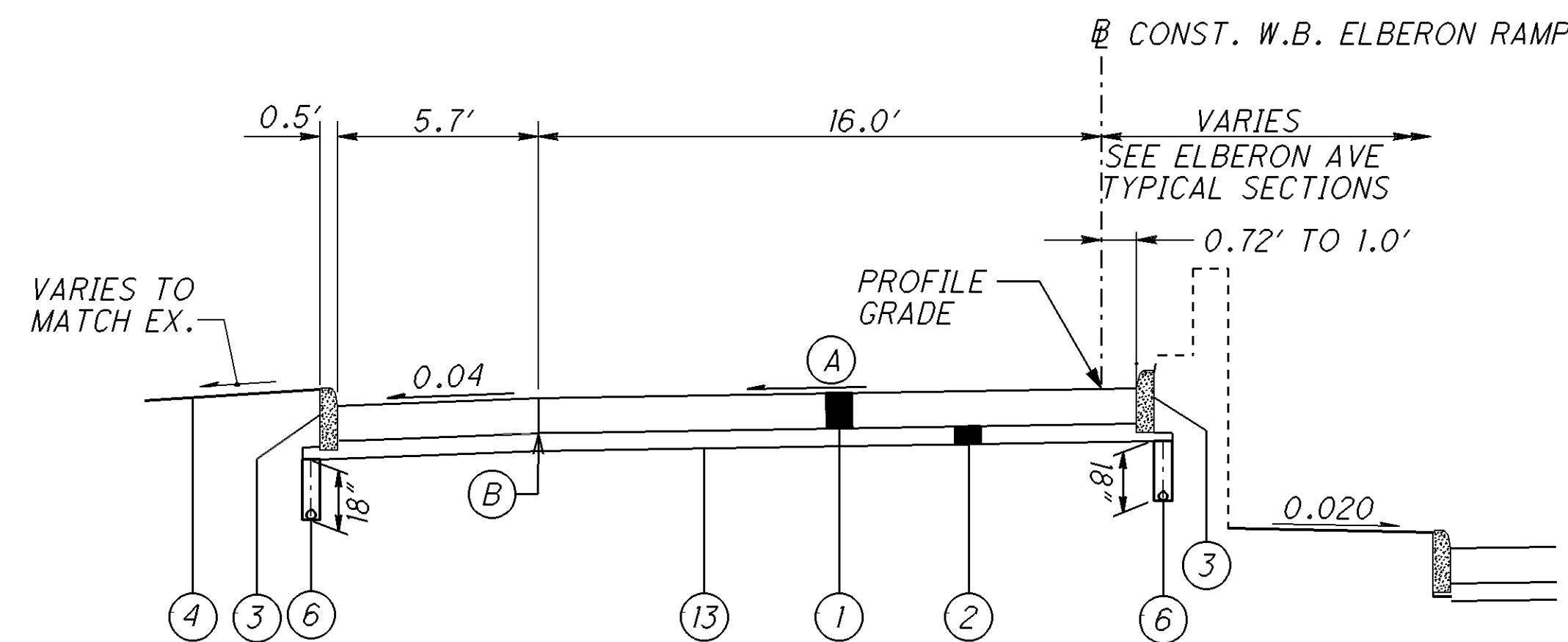


APPROACH SLAB SECTION - WARSAW EASTBOUND RAMP
LIMITS: STA. 82+96.48 TO STA. 83+26.48

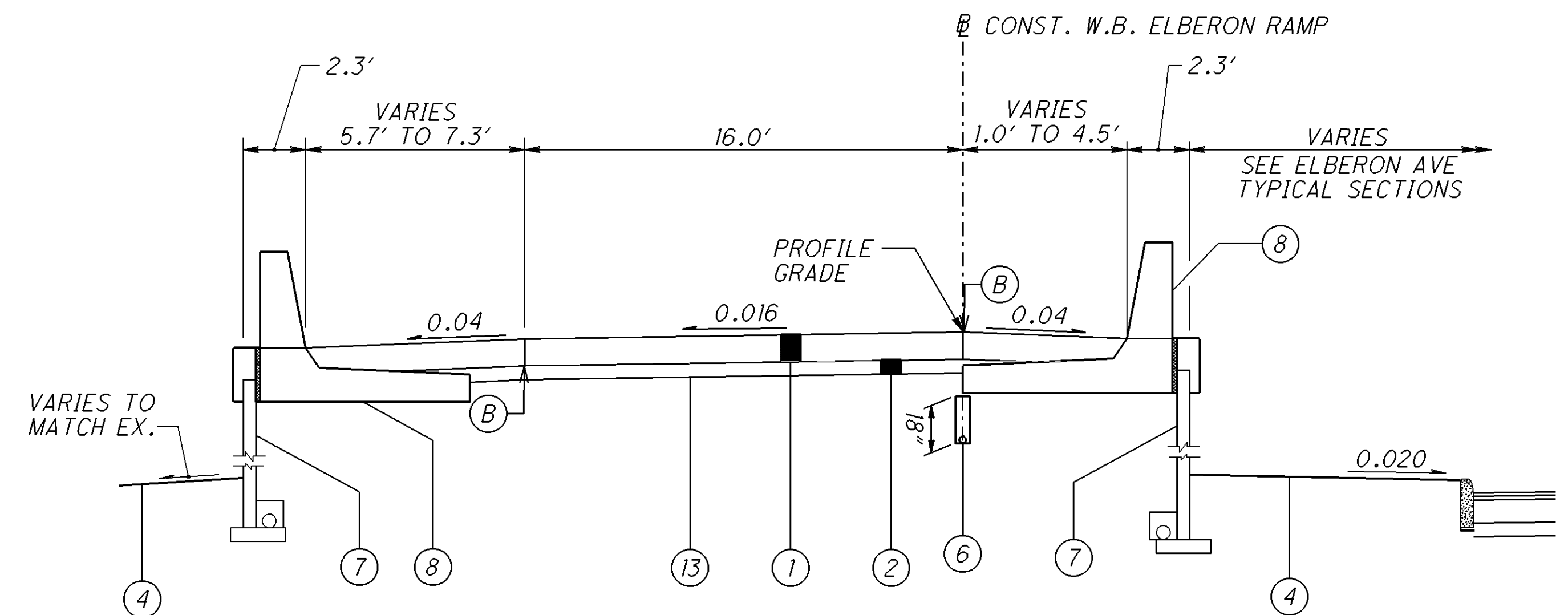
- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (2) ITEM 304 - 6" AGGREGATE BASE
- (3) ITEM 609 - CURB, TYPE 6
- (4) ITEM 659 - SEEDING AND MULCHING
- (5) ITEM 608 - 5" CONCRETE WALK
- (6) ITEM 605 - 6" BASE PIPE UNDERDRAINS
- (7) ITEM 840 - MECHANICALLY STABILIZED 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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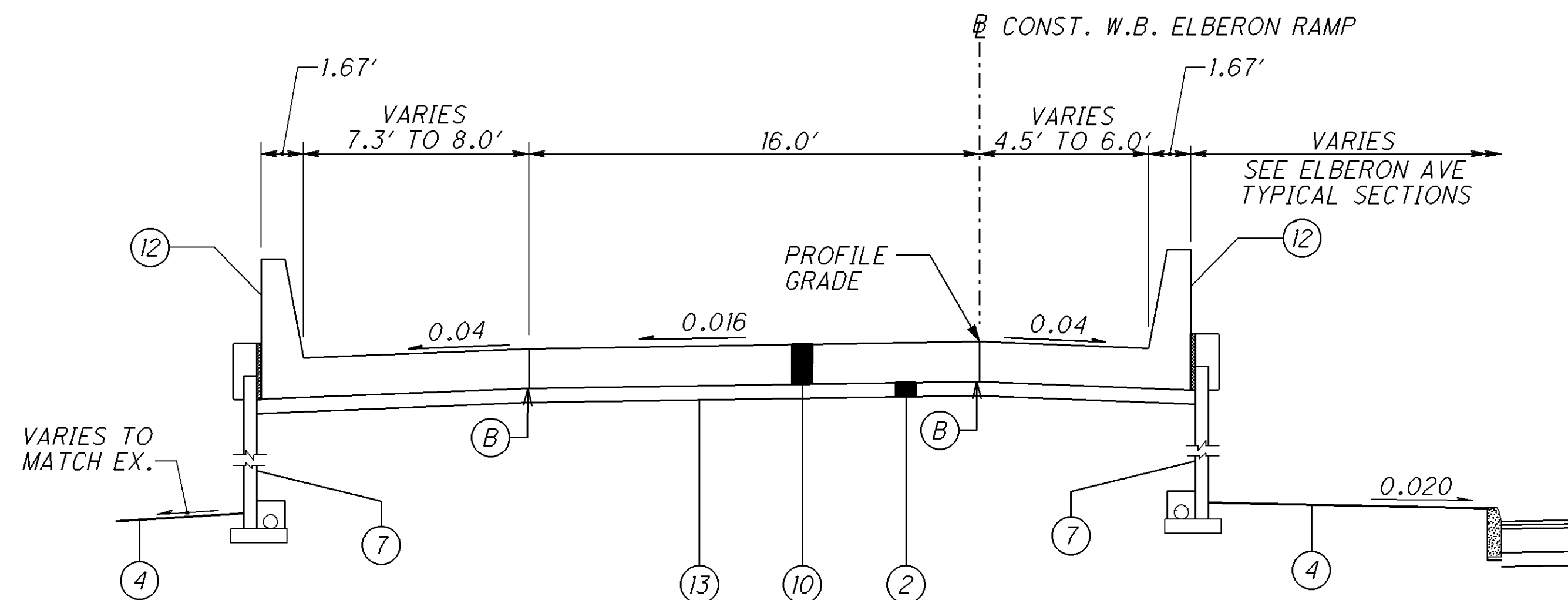
NORMAL SECTION - ELBERON W.B. RAMP
LIMITS: STA. 90+00.00 TO STA. 91+24.67



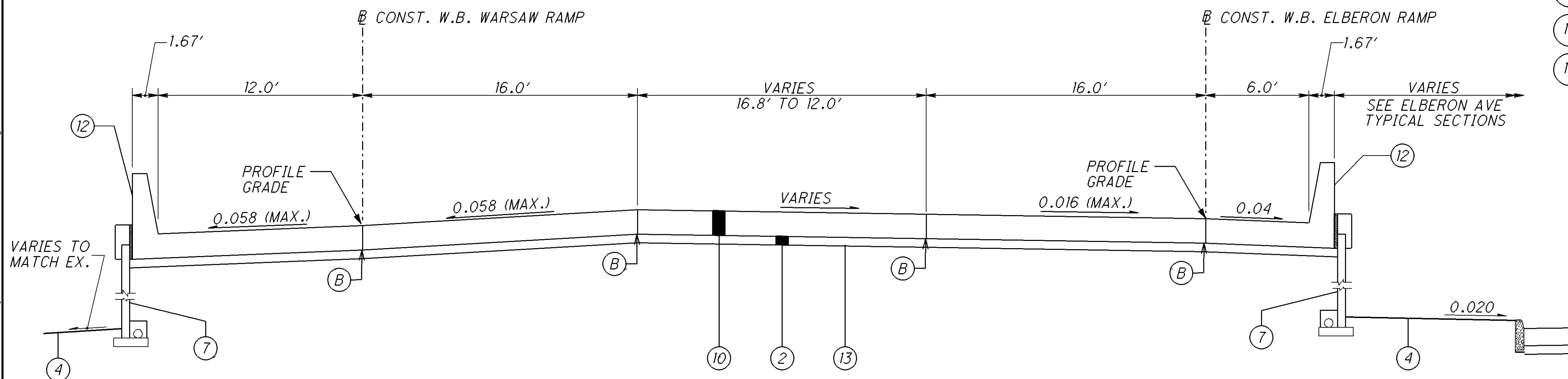
NORMAL SECTION - ELBERON W.B. RAMP
LIMITS: STA. 91+24.67 TO STA. 91+77.24

NOTES:

- (A) VARIES +0.0154 TO -0.016
STA. 90+00 TO STA. 91+25
- (B) LONGITUDINAL JOINT PER BP-2.1



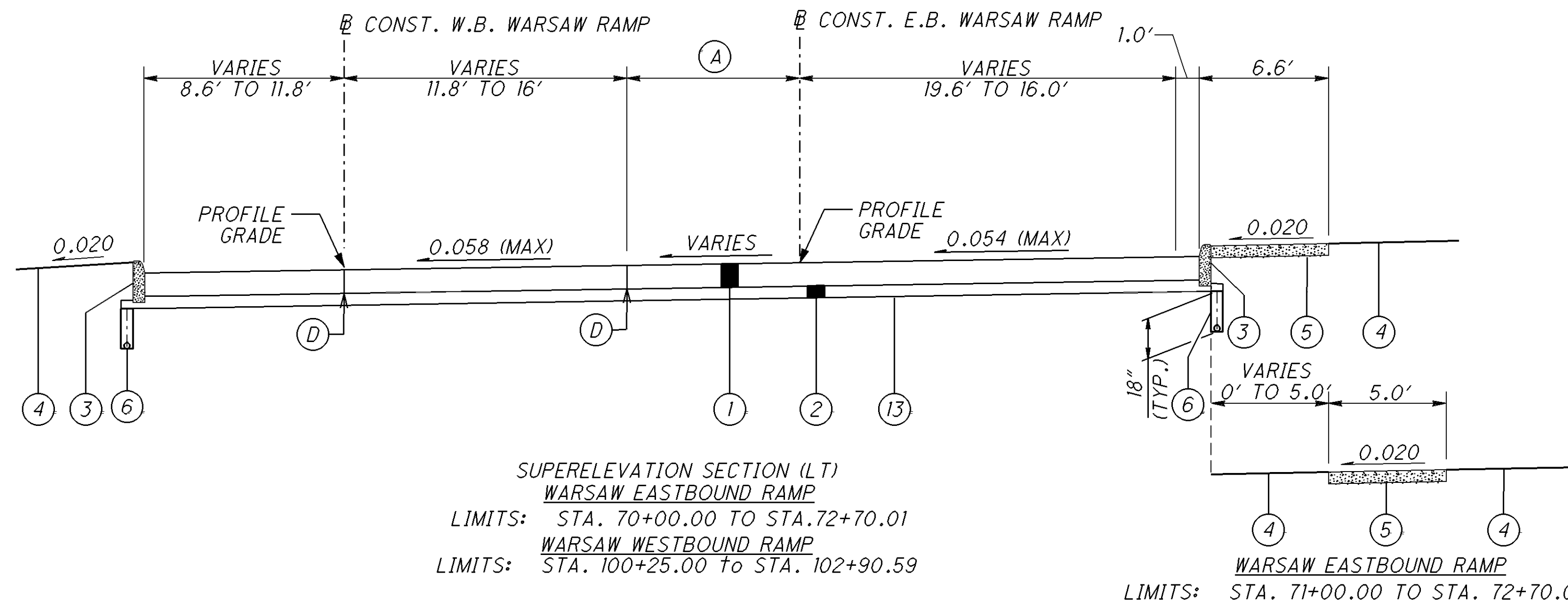
APPROACH SLAB SECTION - ELBERON W.B. RAMP
LIMITS: STA. 91+77.24 TO STA. 92+07.24



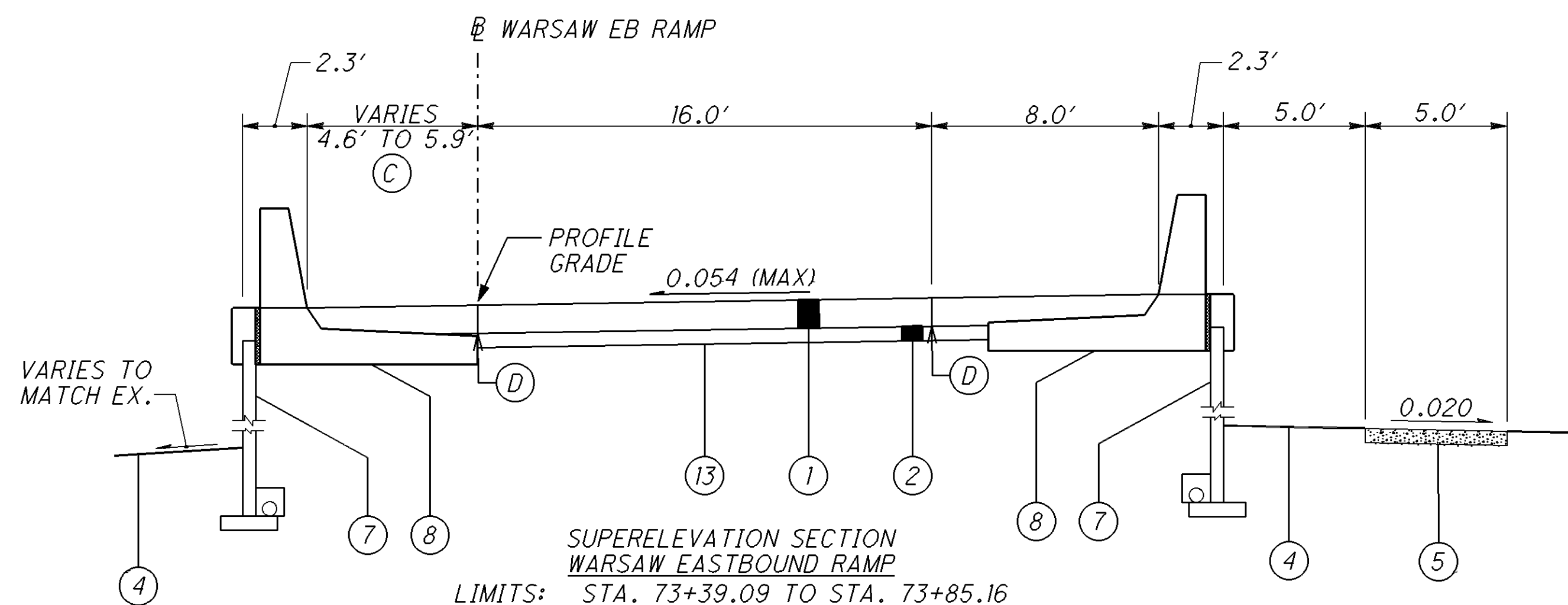
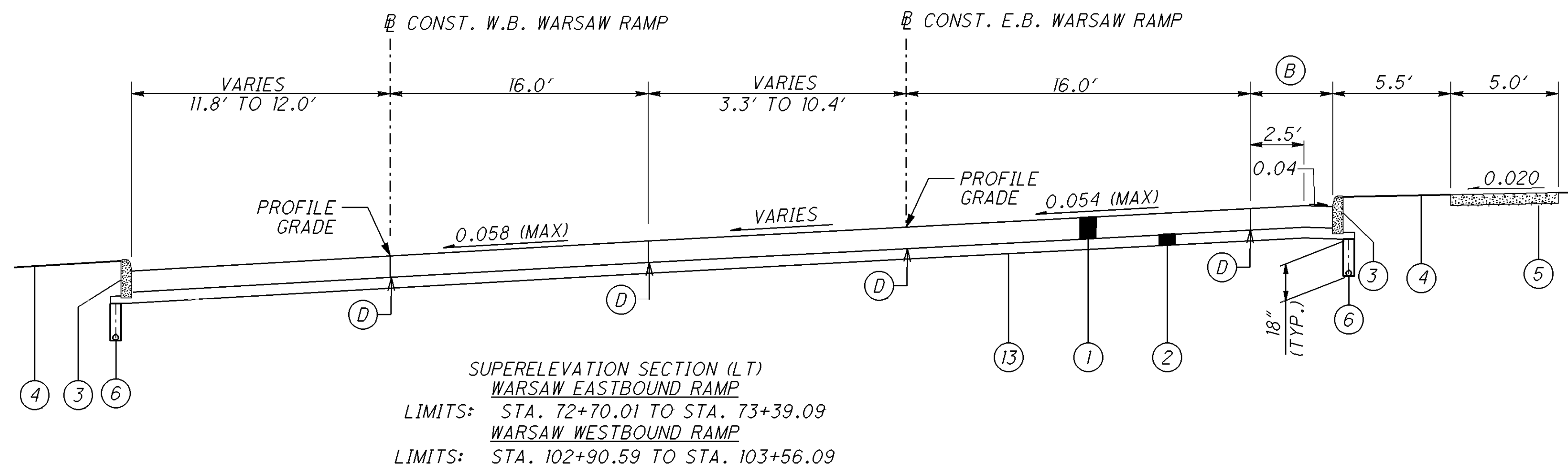
APPROACH SLAB SECTION - ELBERON W.B. RAMP/WARSAW W.B. RAMP
LIMITS: STA. 97+90.77 TO STA. 98+15.68 (ELBERON)
STA. 107+93.35 TO STA. 108+15.36 (WARSAW)

- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (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

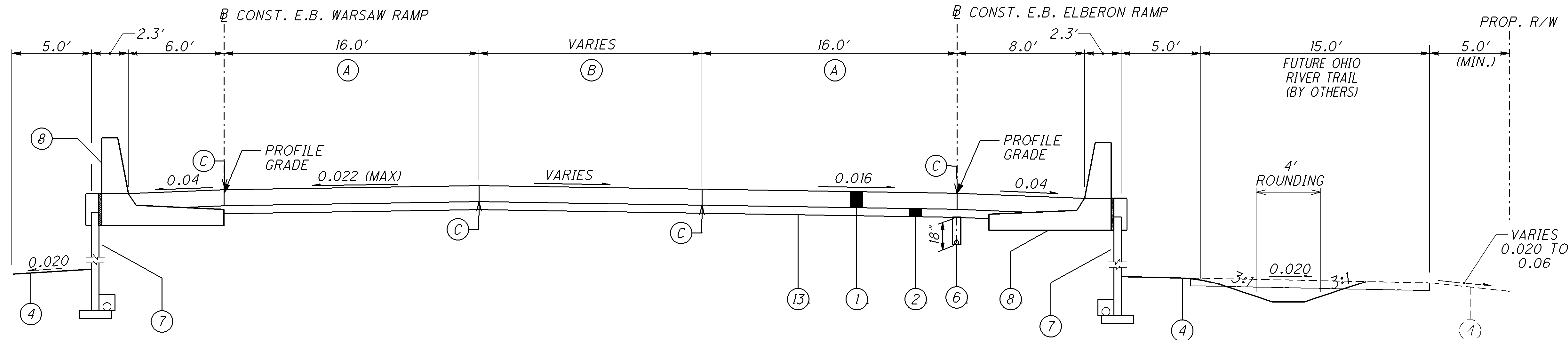
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- 1 ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- 2 ITEM 304 - 6" AGGREGATE BASE
- 3 ITEM 609 - CURB, TYPE 6
- 4 ITEM 659 - SEEDING AND MULCHING
- 5 ITEM 608 - 5" CONCRETE WALK
- 6 ITEM 605 - 6" BASE PIPE UNDERDRAINS
- 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



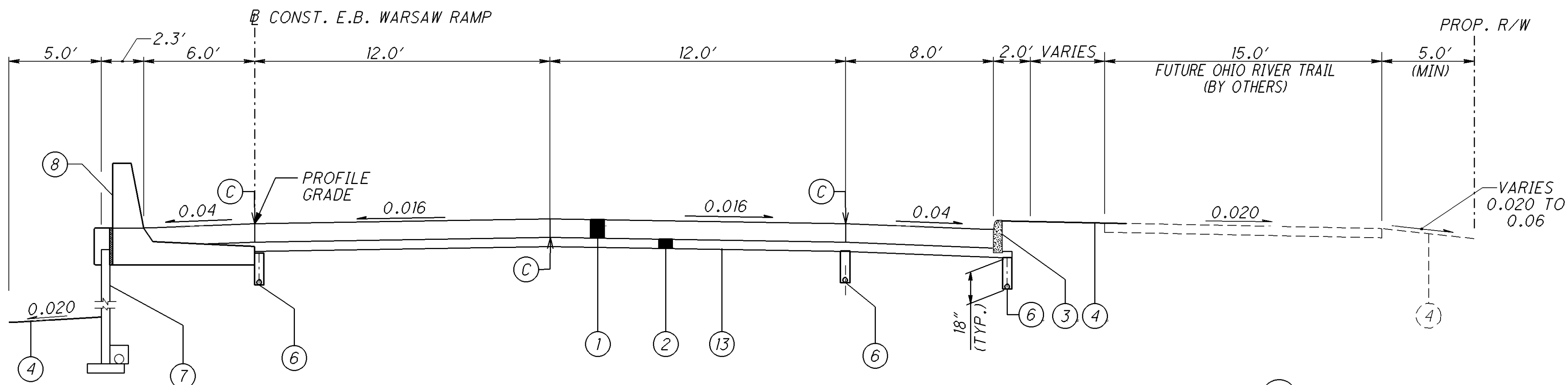
- NOTES:
- (A) VARIES 0.0' TO 3.3' STA. 71+36.36 TO STA. 72+70.01
 - (B) VARIES 0.0' TO 8.0' STA. 72+70.01 TO STA. 73+30.00
 - (C) STA. 73+28.90 TO STA. 73+73.00
 - (D) LONGITUDINAL JOINT PER BP-2.1



NOTES:

- (A) VARIES 16.0' TO 12.0', STA. 85+76.54 TO STA. 88+65.42
- (B) VARIES 12.0' TO 0.0' STA. 83+26.47 TO STA. 85+76.54
- (C) LONGITUDINAL JOINT PER BP-2.1

NORMAL SECTION
WARSAW AND ELBERON EASTBOUND RAMP
 LIMITS: STA. 83+26.47 TO STA. 88+61.90 (WARSAW)
 STA. 61+61.48 TO STA. 62+77.26 (ELBERON)

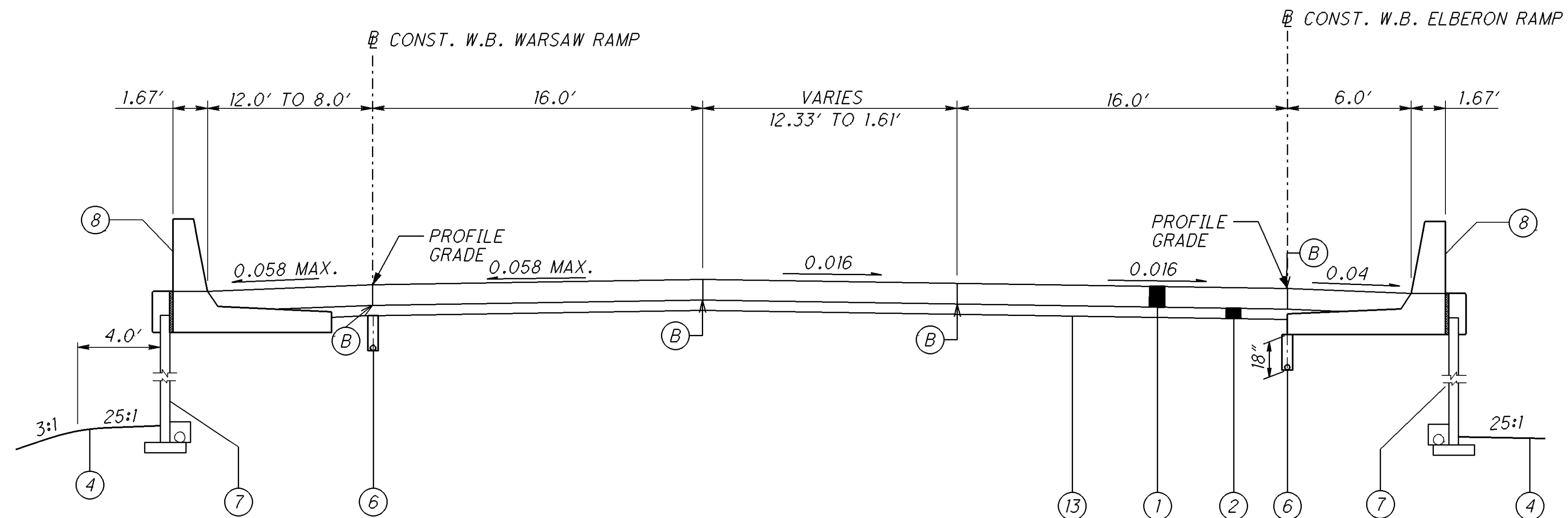


- 1 ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- 2 ITEM 304 - 6" AGGREGATE BASE
- 3 ITEM 609 - CURB, TYPE 6
- 4 ITEM 659 - SEEDING AND MULCHING
- 5 ITEM 608 - 5" CONCRETE WALK
- 6 ITEM 605 - 6" BASE PIPE UNDERDRAINS
- 7 ITEM 840 - MECHANICALLY STABILIZED EARTH WALL
- 8 ITEM 622 - CONCRETE BARRIER, TYPE D (MOUNTED ON MOMENT SLAB)

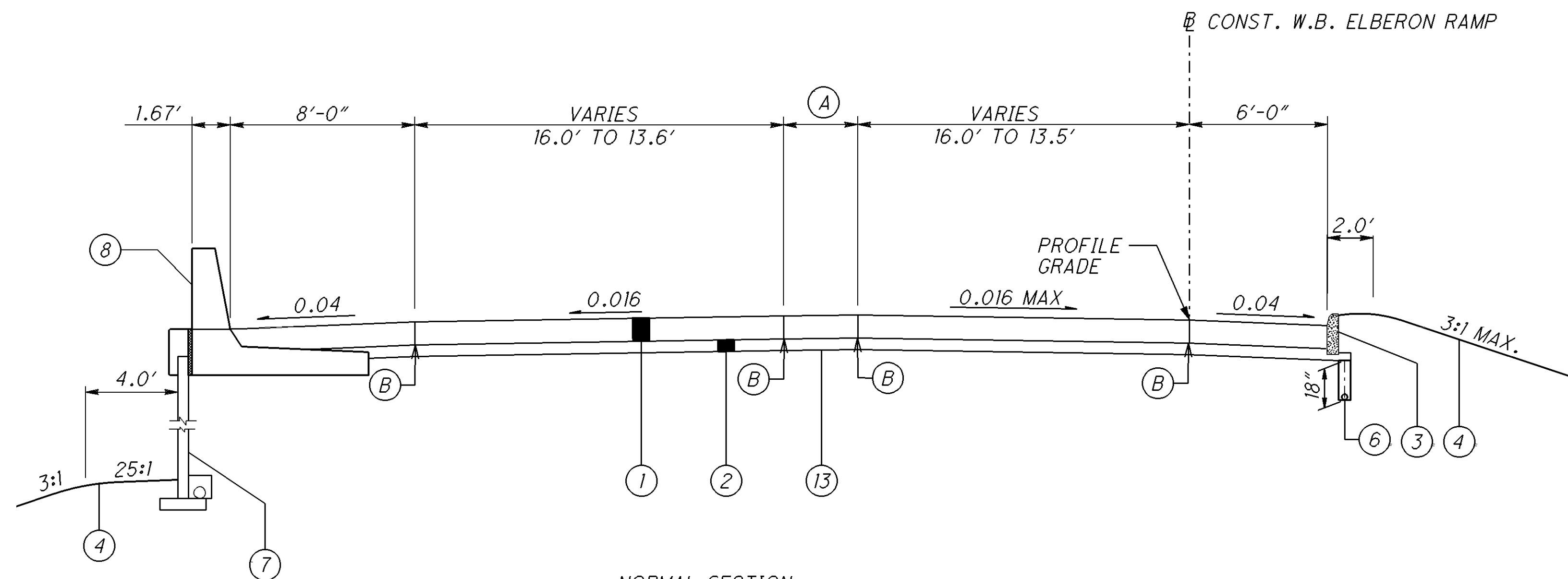
NORMAL SECTION
WARSAW AND ELBERON EASTBOUND RAMP
 NORMAL SECTION
 LIMITS: STA. 88+61.90 TO STA. 89+88.91 (WARSAW)

- 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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NORMAL / SUPERELEVATION SECTION
ELBERON/WARSAW WESTBOUND RAMP
LIMITS: STA. 98+15.68 TO STA. 99+50.00 (ELBERON)
STA. 108+15.36 TO STA. 109+34.06 (WARSAW)



NORMAL SECTION
ELBERON WESTBOUND RAMP
LIMITS: STA. 99+50.00 TO STA. 101+74.65

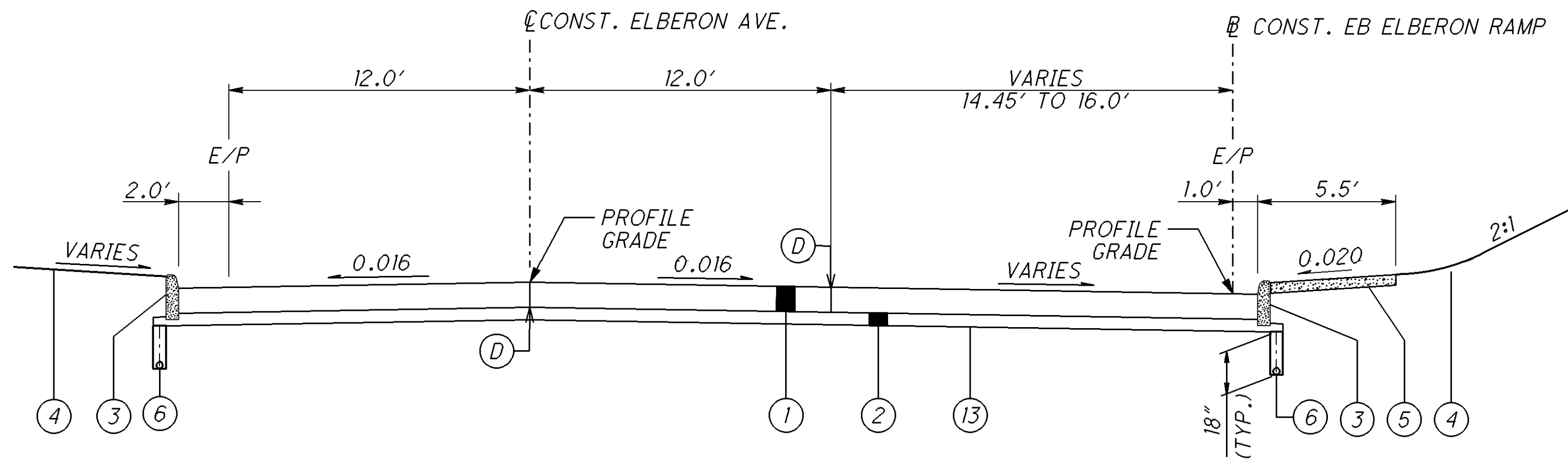
NOTES:

- (A) VARIES 1.61' TO 0.0' STA. 99+50.00 TO STA. 100+06.60
- (B) LONGITUDINAL JOINT PER BP-2.1

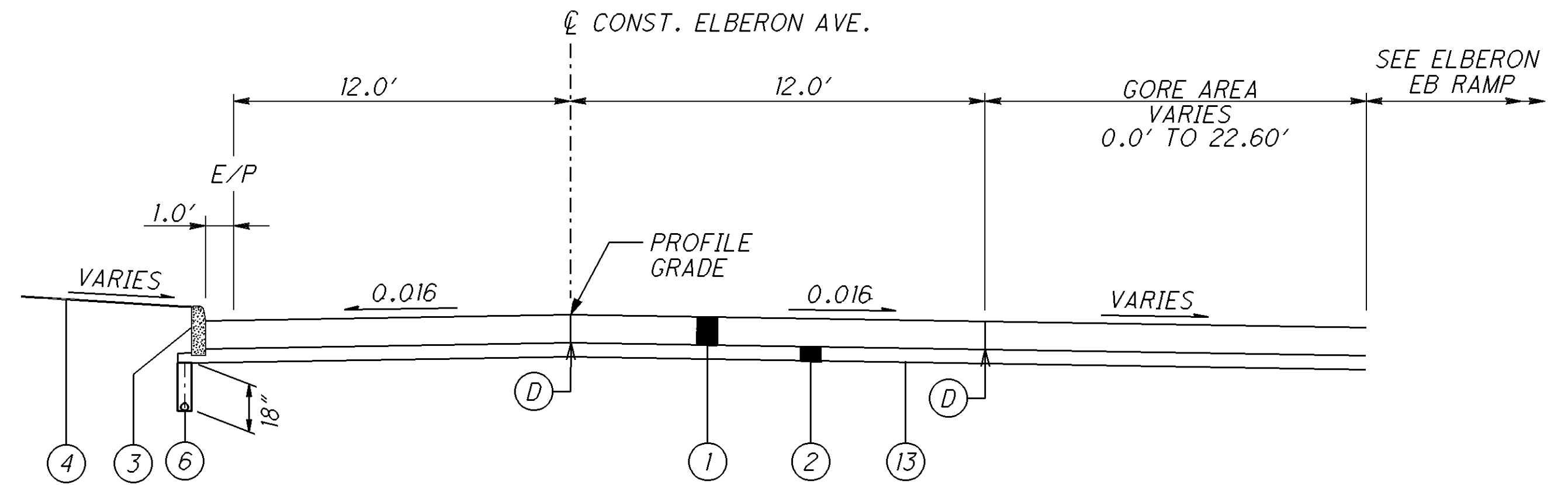
- 1 ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- 2 ITEM 304 - 6" AGGREGATE BASE
- 3 ITEM 609 - CURB, TYPE 6
- 4 ITEM 659 - SEEDING AND MULCHING
- 5 ITEM 608 - 5" CONCRETE WALK
- 6 ITEM 605 - 6" BASE PIPE UNDERDRAINS
- 7 ITEM 840 - MECHANICALLY STABILIZED EARTH WALL
- 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

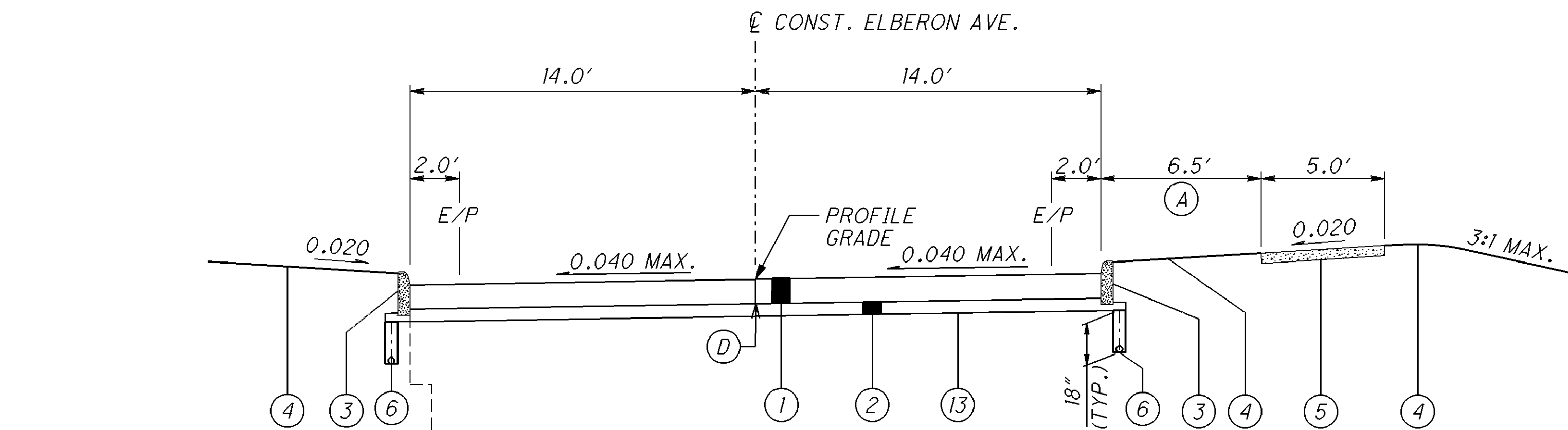
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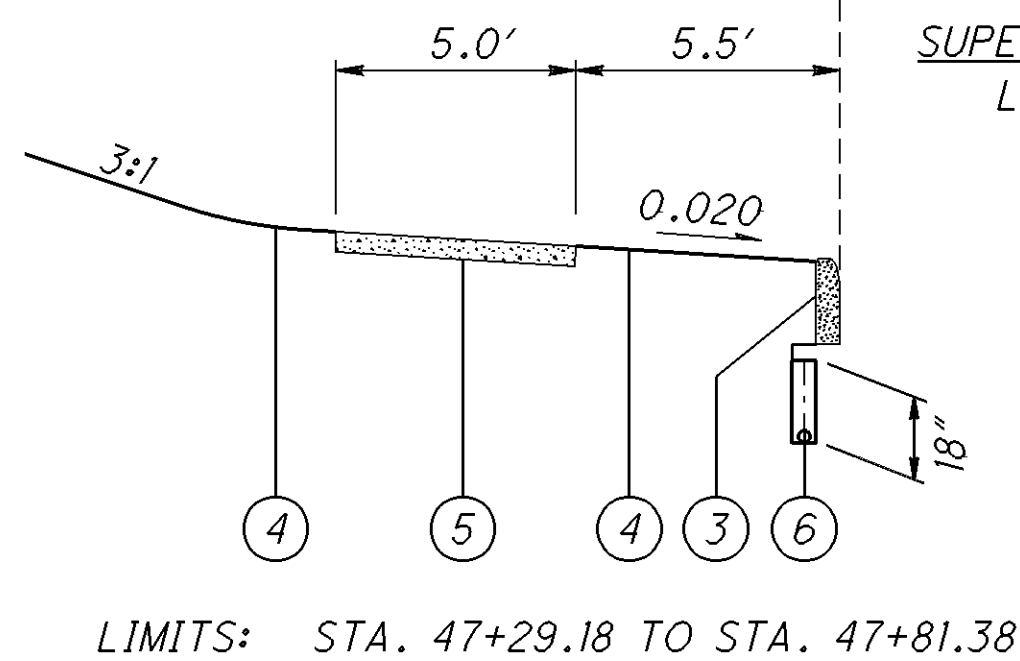
NORMAL SECTION - ELBERON AVENUE
LIMITS: STA. 43+87.84 TO STA. 44+49.35



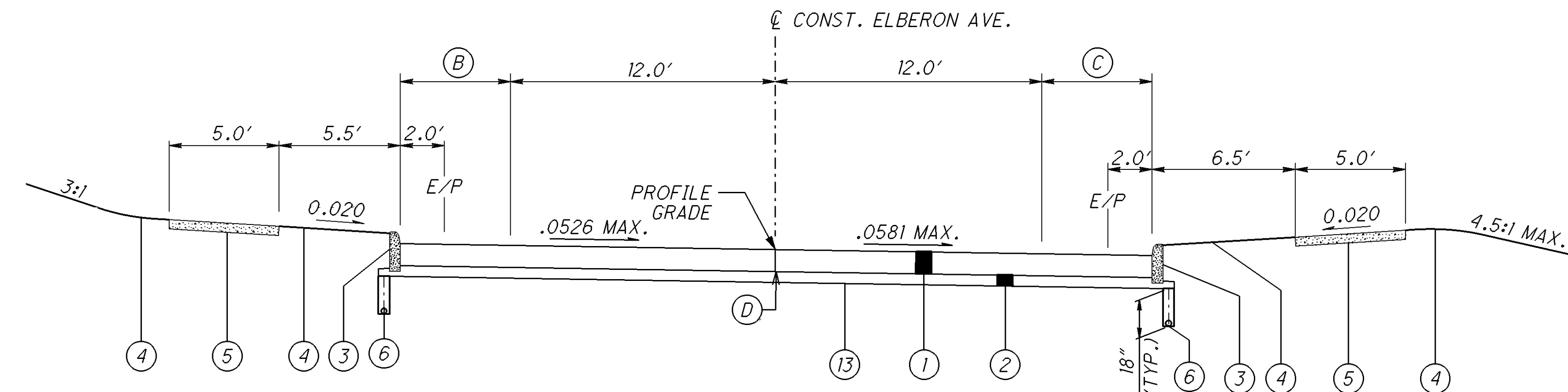
NORMAL SECTION - ELBERON AVENUE
LIMITS: STA. 44+49.35 TO STA. 45+93.57



SUPERELEVATION SECTION (LT) - ELBERON AVENUE
LIMITS: STA. 45+93.57 TO STA. 47+81.38



LIMITS: STA. 47+29.18 TO STA. 47+81.38



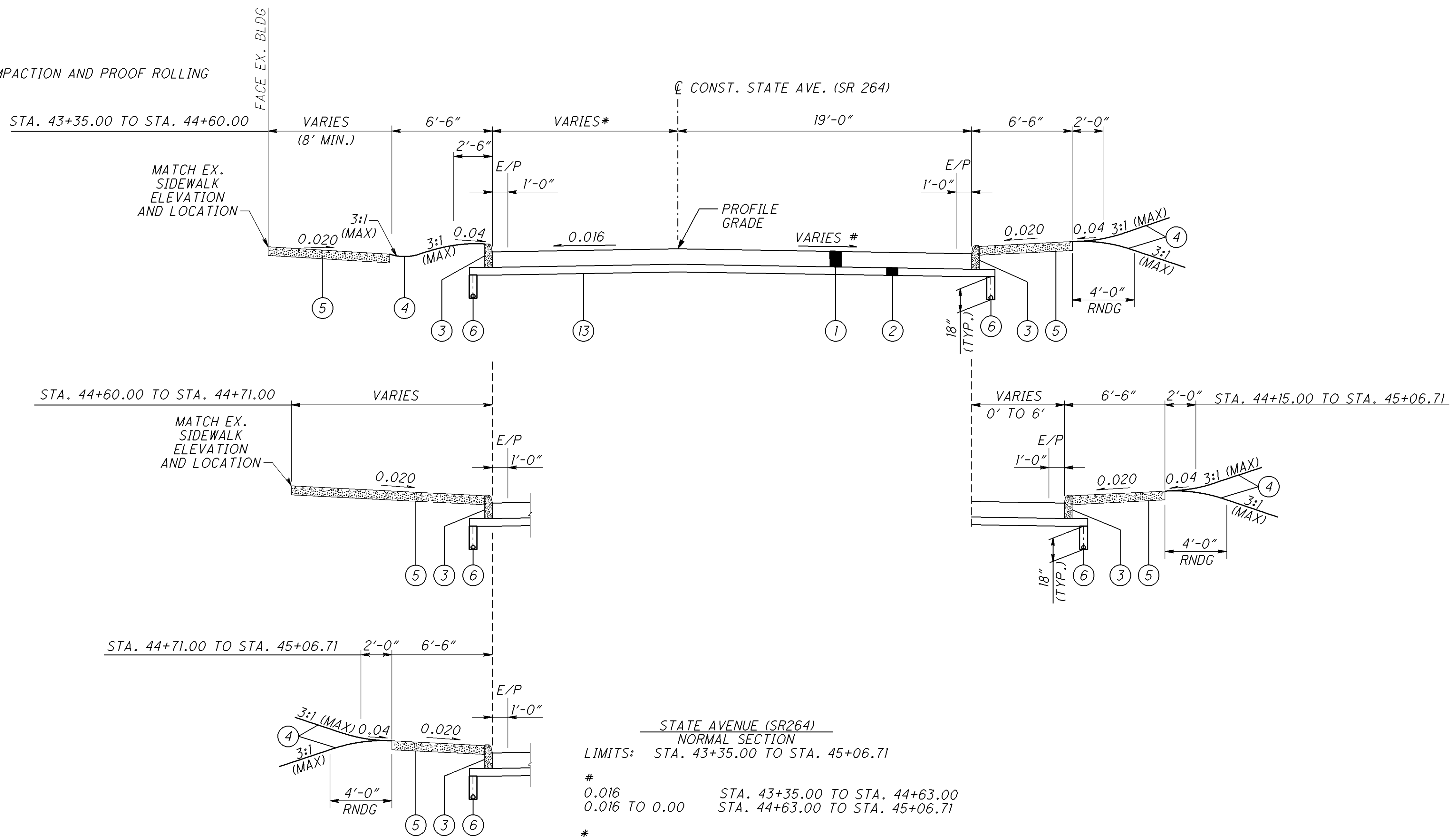
SUPERELEVATION SECTION (RT) - ELBERON AVENUE
LIMITS: STA. 47+81.38 TO STA. 49+50.99

NOTES:

- (A) BEGIN SIDEWALK ELBERON AVE STA. 50+16.36
WIDTH VARIES 6.5' TO 0.5' STA. 50+16.36 TO STA 50+97.73
- (B) VARIES STA. 48+28.71 TO STA. 49+50.99, SEE PAVEMANT DETAILS
- (C) VARIES STA. 48+25.05 TO STA. 49+50.99, SEE PAVEMANT DETAILS
- (D) LONGITUDINAL JOINT PER BP-2.1

- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK
(NON-REINFORCED PER 452)
- (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

- 1 ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- 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 - MSE WALL MOUNTED DEFLECTOR PARAPET, AS PER PLAN
- 9 ITEM 622 - CONCRETE BARRIER, TYPE C1
- 10 ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=17")
- 11 NOT USED
- 12 NOT USED
- 13 ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

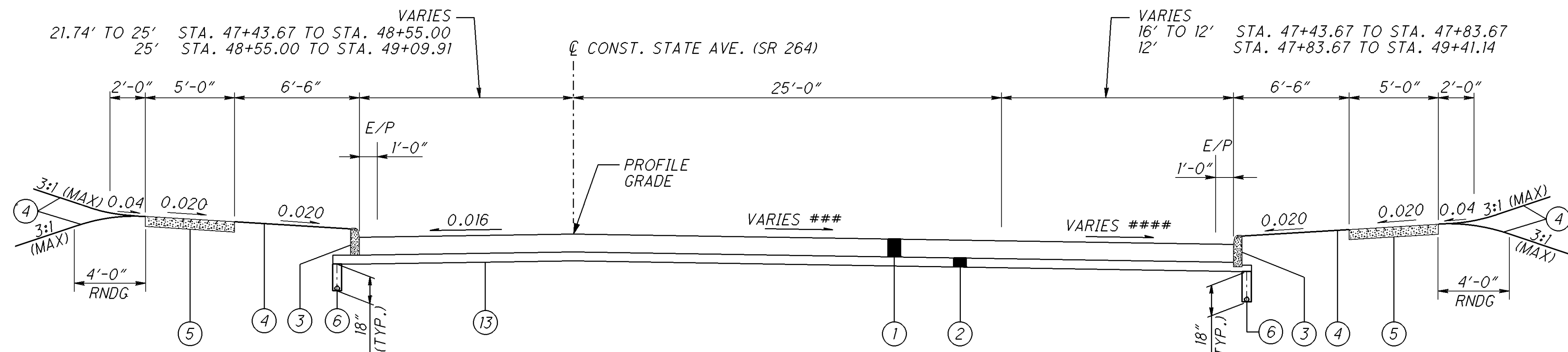
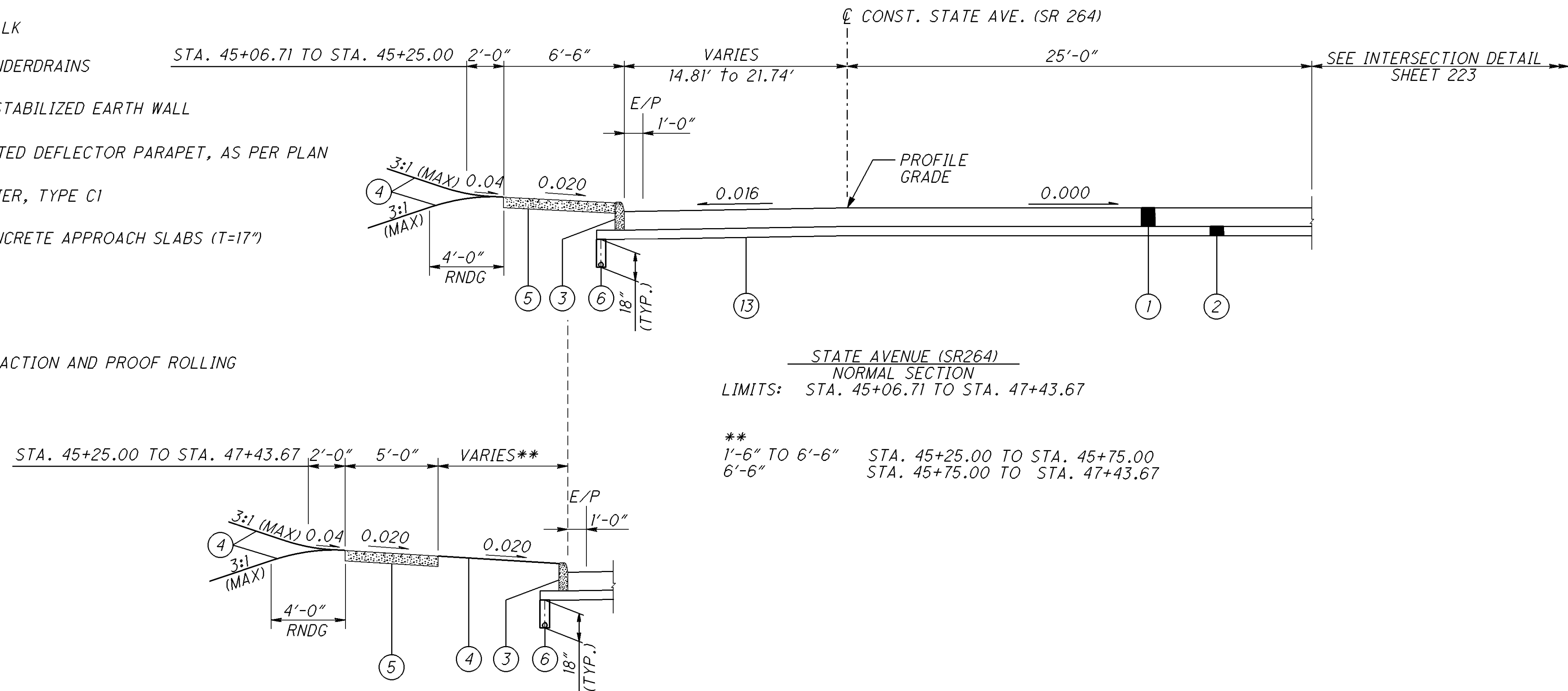


STATE AVENUE (SR264)
NORMAL SECTION
LIMITS: STA. 43+35.00 TO STA. 45+06.71

0.016 STA. 43+35.00 TO STA. 44+63.00
0.016 TO 0.00 STA. 44+63.00 TO STA. 45+06.71

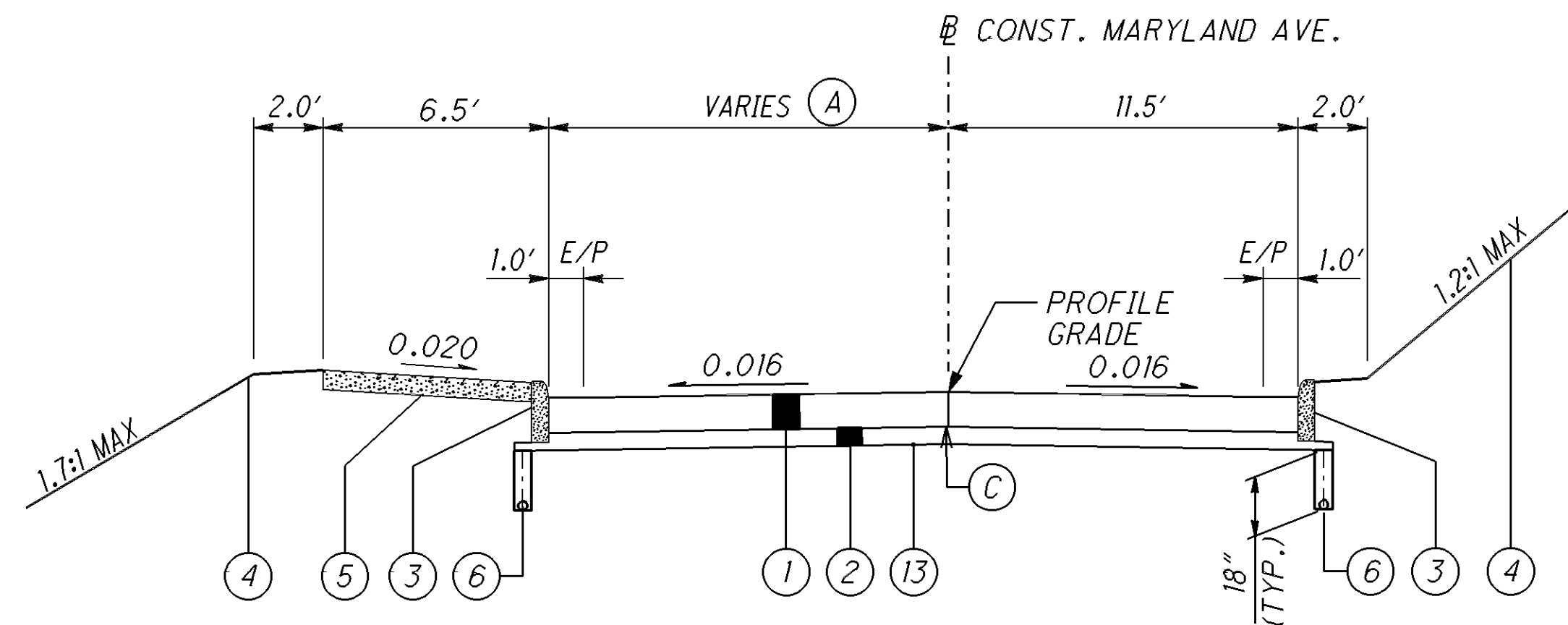
*
13'-0" STA. 43+35.00 TO STA. 44+45.00
13'-0" TO 14.81' STA. 44+45.00 TO STA. 45+06.71

- 1 ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- 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 - MSE WALL MOUNTED DEFLECTOR PARAPET, AS PER PLAN
- 9 ITEM 622 - CONCRETE BARRIER, TYPE C1
- 10 ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=17")
- 11 NOT USED
- 12 NOT USED
- 13 ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING



0.000 TO 0.016 STA. 47+43.67 TO STA. 48+03.67 0.016 STA. 48+03.67 TO STA. 49+41.14

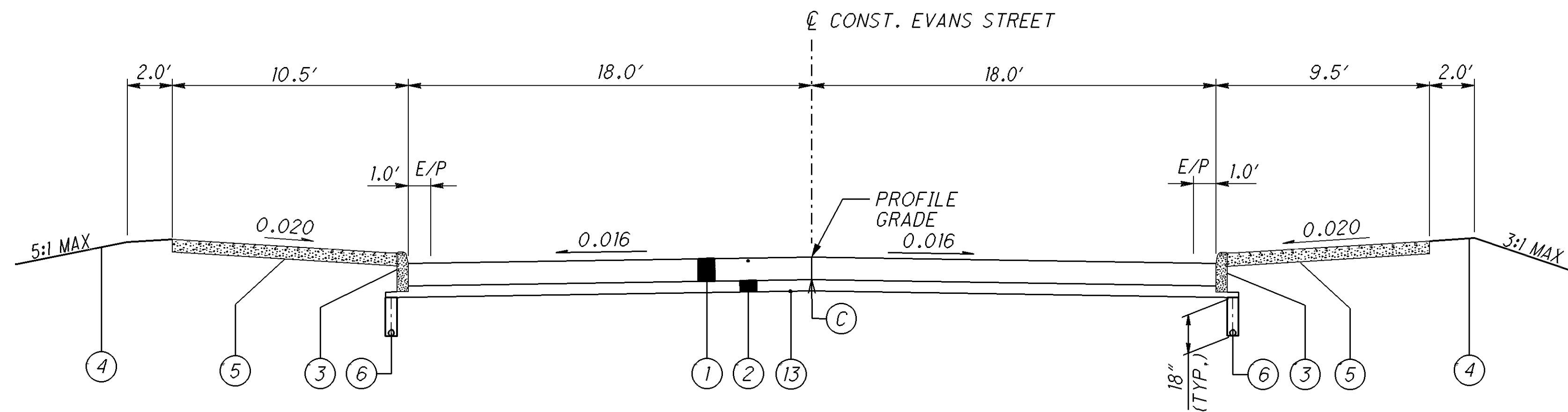
0.013 TO 0.016 STA. 47+43.67 TO STA. 48+03.67 0.016 STA. 48+03.67 TO STA. 49+41.14



NORMAL SECTION - MARYLAND AVENUE
 (A) LIMITS: STA. 45+36.00 TO STA. 46+43.62
 (I) 11.0' AT STA. 45+36.00 TO 10.0' AT STA. 45+50.96

NOTES:

- (A) SEE PAVEMENT DETAILS FOR STA. 46+43.62 TO STA. 46+94.93
- (B) SEE PAVEMENT DETAILS FOR STA. 20+05.23 TO STA. 21+16.84
- (C) LONGITUDINAL JOINT PER BP-2.1



NORMAL SECTION - EVANS STREET
 (B) LIMITS: STA. 21+16.84 TO STA. 22+06.23

- (1) ITEM 888 - PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)
- (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
- (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			
			15182		6476		6685		10617					202	23000	38960	SQ YD	CLEARING AND GRUBBING			
			23003		8385		11023		12747					202	30000	38160	SQ FT	PAVEMENT REMOVED			
			22				47							202	30200	69	FT	WALK REMOVED			
														202	30200	69	FT	STEPS REMOVED			
			74	654		1029		LUMP	15					202	30204	LUMP		STEPS REMOVED			
			6986	2791		3625			2443					202	30800	1772	SQ YD	TRAFFIC ISLAND REMOVED			
														202	32000	15845	FT	CURB REMOVED			
													3553	202	35100	3553	FT	PIPE REMOVED, 24" AND UNDER			
													373	202	35200	373	FT	PIPE REMOVED, OVER 24"			
													28	202	58000	28	EACH	MANHOLE REMOVED			
													100	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			
														202	98000	LUMP		REMOVAL MISC.: STORMWATER DIVERSION CHAMBER	195		
									210					202	98200	210	FT	REMOVAL MISC.: WALL REMOVED			
								10972						203	10000	10972	CU YD	EXCAVATION			
			25371		5025		8989	65442		4170				203	20000	65442	CU YD	EMBANKMENT			
														204	10000	43555	SQ YD	SUBGRADE COMPACTION			
								4246		1108				204	13000	5354	CU YD	EXCAVATION OF SUBGRADE			
40								4246		1108				204	30020	5354	CU YD	GRANULAR MATERIAL, TYPE C			
														204	45000	40	hour	PROOF ROLLING			
				126		158		98		3325				204	50000	3325	SQ YD	GEOTEXTILE FABRIC			
			146					229						451	30000	382	FT	SPECIAL - PRESSURE RELIEF JOINT			
			2											606	13000	375	FT	GUARDRAIL, TYPE 5			
								1						606	22000	2	EACH	ANCHOR ASSEMBLY, TYPE B-98			
				4		4								606	22010	1	EACH	ANCHOR ASSEMBLY, TYPE E-98			
								1						606	26500	8	EACH	ANCHOR ASSEMBLY, TYPE T			
			2					2						606	35100	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2			
				20540		7156		9680	9545					606	35140	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4			
						45			40					608	12000	46921	SQ FT	5" CONCRETE WALK			
				804		300		215	687					608	40000	85	FT	CONCRETE STEPS, TYPE A			
														608	52000	2006	SF	CURB RAMP			
								25						622	10060	25	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B			
				34				29						622	10140	63	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1			
				149										622	10160	149	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D			
						2		1						622	25000	3	EACH	CONCRETE BARRIER, END SECTION, TYPE D			
						2		1						622	25052	3	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D			
	315													653	10000	315	CU YD	TOPSOIL FURNISHED AND PLACED			
LUMP														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			
	2										93			601	32204	93	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER			
														659	00100	2	EACH	SOIL ANALYSIS TEST			
								26396						659	10000	26396	SQ YD	SEEDING AND MULCHING			
	1400													659	14000	1400	SQ YD	REPAIR SEEDING AND MULCHING			
	1000													659	15000	1000	SQ YD	INTER-SEEDING			
														659	20000	4	TON	COMMERCIAL FERTILIZER			
	4													659	31000	6	ACRE	LIME			
	6													659	35000	0.2	M GAL	WATER			
	0.2													659	40000	0.3	M SQ FT	MOWING			
	0.3										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		

GENERAL SUMMARY

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SHEET NUMBER														ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	CHECKED	MAH
23	24	25	26	27	81	87	88	89	90	91	92	93										
																			MAINTENANCE OF TRAFFIC			
			500											254	01000	500	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE				
				300										614	11110	300	HOURS	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE				
					24	2								614	11300	2	EACH	SPECIAL - WORK ZONE TRAFFIC SIGNAL	25			
														614	11500	24	MONTH	WORKSITE TRAFFIC SUPERVISOR				
						3								614	12336	3	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)				
						13								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		838		1498		1390	304	20000	8891	CU YD	6" AGGREGATE BASE				
							24097		4234		8023		3850	888	15000	40204	SQ YD	PORTLAND CEMENT CONCRETE PAVEMENT, 12" THICK (NON-REINFORCED PER 452)				
							18				724			452	12000	742	SQ YD	8" NON-REINFORCED CONCRETE PAVEMENT (DRIVEWAY)				
								6190		865		2501	1461	609	26000	11017	FT	CURB, TYPE C				
		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			
		100000												690	65020	100000	GAL	SPECIAL - WORK INVOLVING WATER	23			
		50000												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				
		LUMP												614	11000	LUMP		MAINTAINING TRAFFIC				
														623	10000	LUMP		CONSTRUCTION LAYOUT STAKES				
														623	11000	1	EACH	PROVIDING ELECTRONIC INSTRUMENTATION				
														623	11100	16	HOURS	TECHNICAL ASSISTANCE				
														624	10000	LUMP		MOBILIZATION				

GENERAL SUMMARY

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GENERAL SUMMARY

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ROADWAY SUB-SUMMARY

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SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	202	202	202	202	202	202	202	204	304	888	608	608	608	609				
						Pavement Removed	Curb Removed	Traffic Island Removed	Walk Removed	Fence Removed	Wall Removed	Steps Removed	Subgrade Compaction	6" Aggregate Base	Portland Cement Concrete Pavement, 12" Thick (Non-Reinforced per 452)	5" Concrete Walk	Curb Ramp	Concrete Steps, Type A	Curb, Type 6				
			SY	FT		SY	SF	LF	LF	LUMP	SY	CY	SY	SF	SF	LF	LF						
135		STATE AVE.	43+35.00	47+50.00	LT & RT	4576							3107	1036	2820								
135	R-1	STATE AVE.	43+30.00	45+52.55	LT		310	11															
135	R-2	STATE AVE.	45+73.02	45+81.96	LT		70																
135	R-3	STATE AVE.	45+59.65	46+14.83	LT		318																
135	R-4	STATE AVE.	45+60.95	45+78.55	LT						93												
135	R-5	STATE AVE.	46+12.41	47+50.00	LT		243																
135	R-6	STATE AVE.	43+35.00	45+01.18	RT		417																
135	R-7	STATE AVE.	45+13.32	45+29.97	RT		43	4															
135	R-8	STATE AVE.	43+84.16	46+93.54	RT		390																
135	R-9	STATE AVE.	45+99.93	47+45.22	RT		322																
135	R-10	STATE AVE.	46+05.71	47+13.60	RT				1017														
135	R-11	STATE AVE.	46+07.00	46+19.81	RT				75														
135	R-12	STATE AVE.	46+23.34		RT							1											
135	R-13	STATE AVE.	46+25.63	47+45.78	RT				875														
135	R-14	STATE AVE.	43+86.69	46+93.33	RT				2140														
135	R-15	STATE AVE.	43+35.00	45+00.76	RT				1275														
135	R-16	STATE AVE.	44+68.04									1											
135	R-17	STATE AVE.	43+00.00	44+67.10	RT				1006														
135	R-18	STATE AVE.	43+30.93	45+38.51	LT				1495														
135	R-19	STATE AVE.	45+38.51	45+51.68	LT				360														
135	R-20	STATE AVE.	46+13.32	47+50	LT				1795														
135	R-21	STATE AVE.	47+13.99	47+30.46	LT				73														
135	R-22	STATE AVE.	45+92.08	46+14.10	LT					143	89												
135	R-22	STATE AVE.	44+71.41	45+39.85	LT																		
135	SW-1	STATE AVE.	43+37.38	47+50.00	LT											2681							
135	SW-2	STATE AVE.	45+32.67	45+57.99	LT											960							
135	SW-3	STATE AVE.	46+42.96	46+54.61	LT											355							
135	SW-4	STATE AVE.	43+35.00	47+07.27	RT											2565	87						
135	SW-5	STATE AVE.	44+88.61	45+82.28	RT											512							
135	SW-6	STATE AVE.	44+36.39	44+73.04	RT											242							
135	SW-7	STATE AVE.	46+48.56	46+61.15	RT											200							
135	SW-8	STATE AVE.	47+24.52	47+50.00	RT											420							
135	SW-9	STATE AVE.	46+94.93	47+05.80	RT											98							
135	C-1	STATE AVE.	43+30.00	47+50.00	LT														415				
135	C-2	STATE AVE.	43+35.00	47+09.79	RT														425				
135	C-3	STATE AVE.	46+15.15	46+61.59	RT														135				
135	C-4	STATE AVE.	46+94.45	47+06.24	RT														46				
135	C-5	STATE AVE.	47+24.25	47+50.00	RT														135				
135	CR-1	STATE AVE.	43+33.12		LT												145						
135	CR-2	STATE AVE.	46+52.44		LT												155						
135	CR-3	STATE AVE.	46+47.82		RT												40						
135	CR-4	STATE AVE.	46+57.30		RT												35						
135	CR-5	STATE AVE.	46+52.37		RT												40						
135	CR-6	STATE AVE.	46+58.40		RT												35						
135	CR-7	STATE AVE.	46+94.51		RT												35						
135	CR-8	STATE AVE.	47+03.66		RT												35						
135	CR-9	STATE AVE.	47+20.93		RT												80						
135	S-1	STATE AVE.	44+21.37	44+36.39	RT													20					
135	S-2	STATE AVE.	44+73.04	44+88.61	RT													20					
136		STATE AVE.	47+50.00	49+00.00	LT & RT	6041							1063	354	1030								
136	R-1	STATE AVE.	47+50.00	49+00.00	RT		160																
136	R-2	STATE AVE.	47+50.00	49+00.00	RT		170																
136	R-3	STATE AVE.	47+50.00	49+00.00	RT				1236														
136	R-4	STATE AVE.	47+50.00	49+00.00	RT				1400														
136	R-5	STATE AVE.	47+50.00	47+74.69	RT						28												
136	SW-1	STATE AVE.	47+50.00	49+00.00	LT											712							
136	SW-2	STATE AVE.	47+50.00	49+0.00	RT											800							
136	C-1	STATE AVE.	47+50.00	49+00.00	LT														145				
136	C-2	STATE AVE.	47+50.00	49+00.00	RT														160				
TOTALS CARRIED TO GENERAL SUMMARY						10617	2443	15	12747	143	210	2	4170	1390	3850	9545	687	40	1461				

CALCULATED

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ROADWAY SUB-SUMMARY

HAM-50-18.79

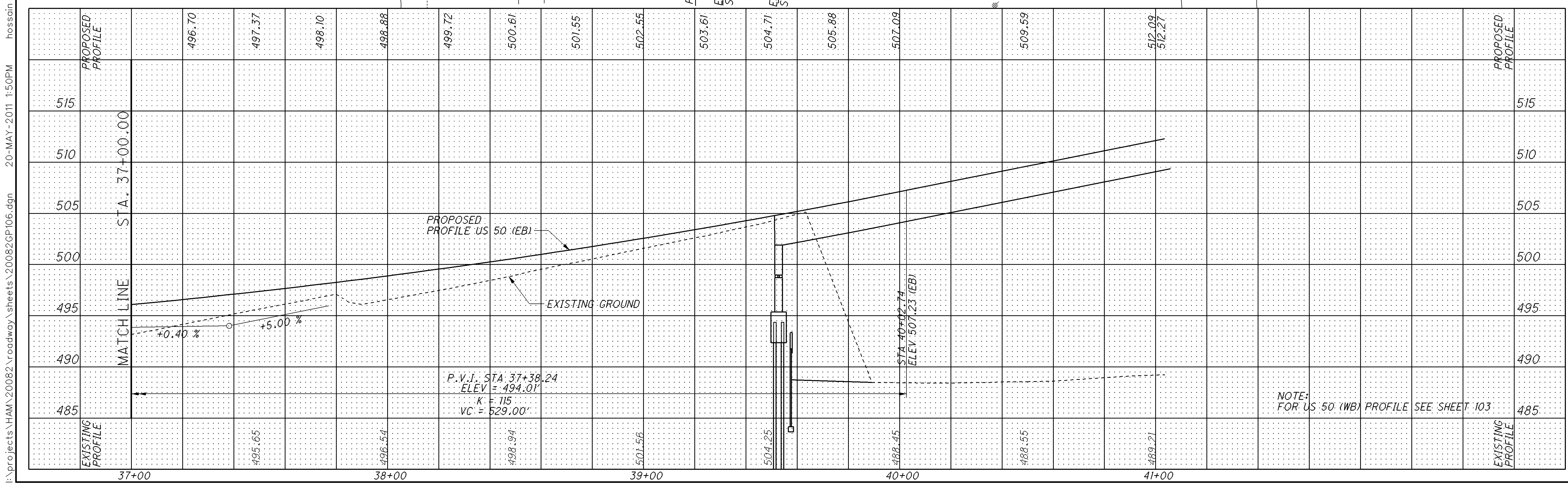
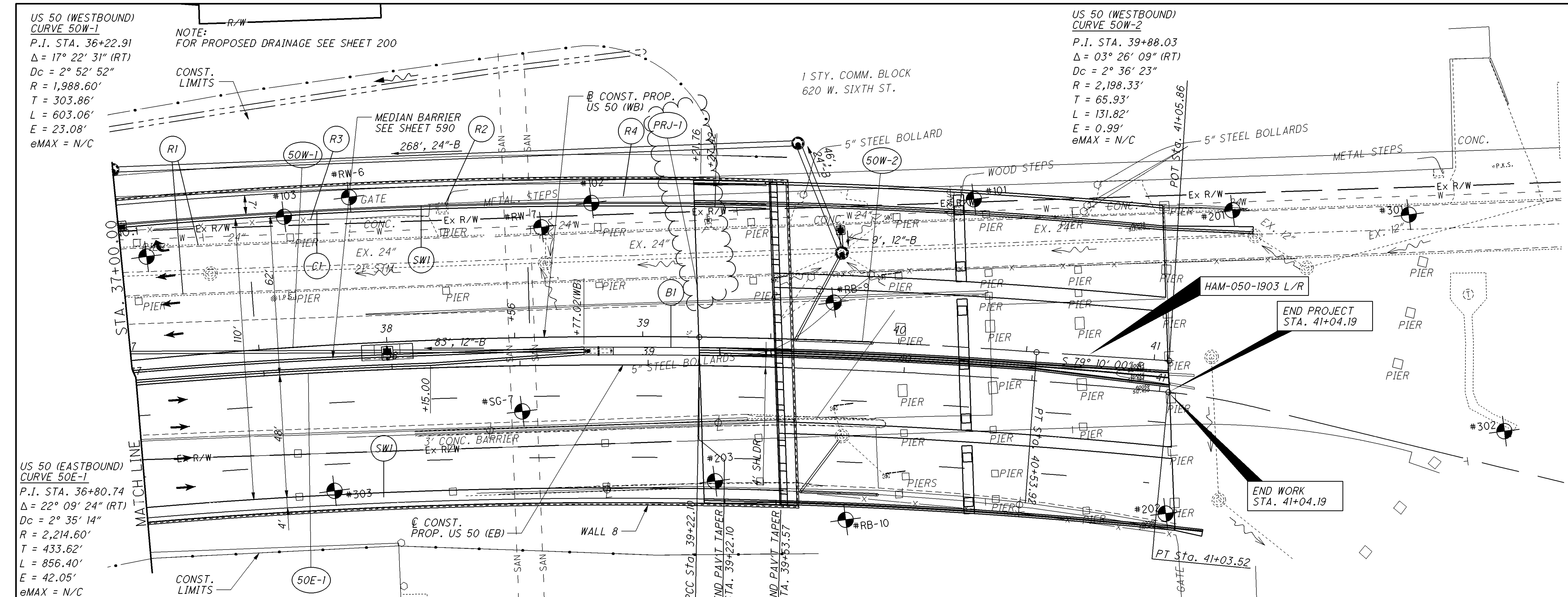
93

657

ROADWAY SUB-SUMMARY

HAM-50-18.79

CALCULATED
NG
CHECKED
MH



PLAN AND PROFILE

STA. 37+00.00 TO END WORK

HAM-50-18.79

102
657

US 50 (WESTBOUND)
CURVE 50W-1
P.I. STA. 36+22.91
 $\Delta = 17^\circ 22' 31''$ (RT)
 $D_c = 2^\circ 52' 52''$
 $R = 1,988.60'$
 $T = 303.86'$
 $L = 603.06'$
 $E = 23.08'$
 $e_{MAX} = N/C$

US 50 (EASTBOUND)
CURVE 50E-1
P.I. STA. 36+80.74
 $\Delta = 22^\circ 09' 24''$ (RT)
 $D_c = 2^\circ 35' 14''$
 $R = 2,214.60'$
 $T = 433.62'$
 $L = 856.40'$
 $E = 42.05'$
 $e_{MAX} = N/C$

US 50 (WESTBOUND)
CURVE 50W-2
P.I. STA. 39+88.03
 $\Delta = 03^\circ 26' 09''$ (RT)
 $D_c = 2^\circ 36' 23''$
 $R = 2,198.33'$
 $T = 65.93'$
 $L = 131.82'$
 $E = 0.99'$
 $e_{MAX} = N/C$

NOTE:
FOR PROPOSED DRAINAGE SEE SHEET 200

NOTE:
FOR US 50 (WB) PROFILE SEE SHEET 103

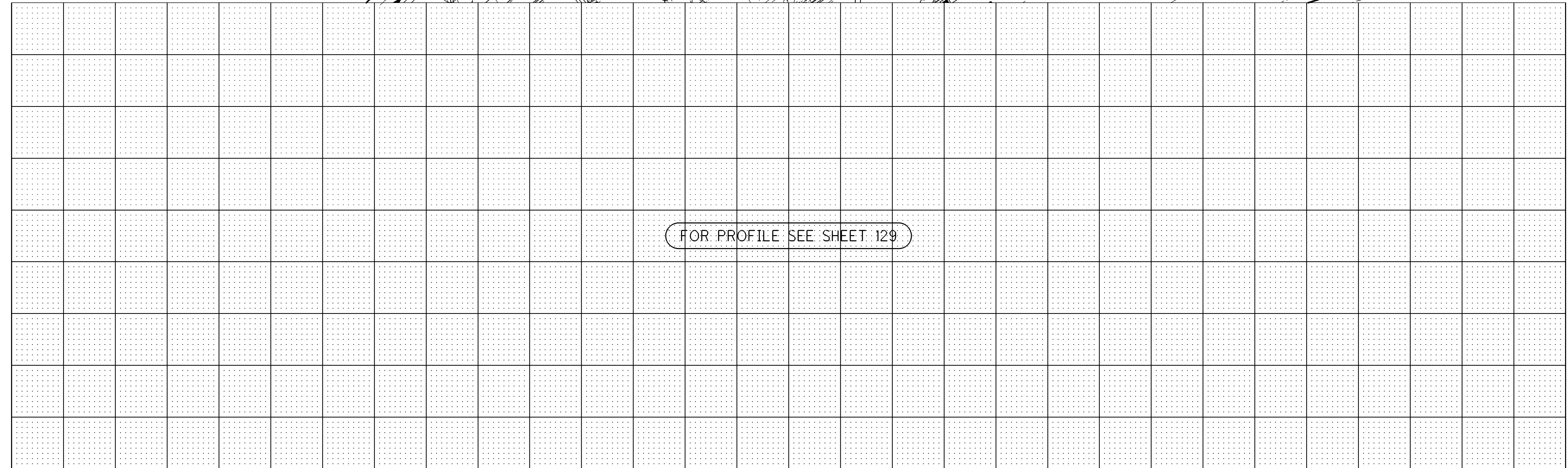
1 STY. COMM. BLOCK
620 W. SIXTH ST.

END PROJECT
STA. 41+04.19

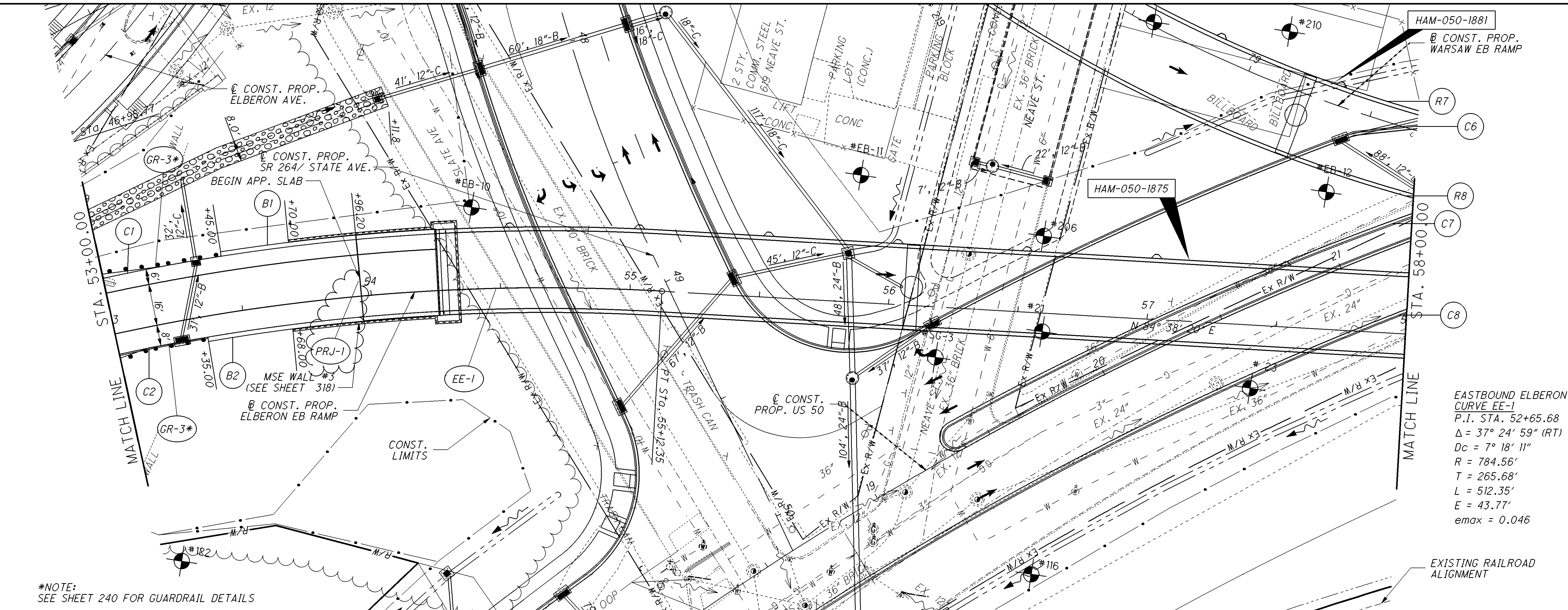
END WORK
STA. 41+04.19

SCALE IN FEET
HORIZONTAL
VERTICAL

I:\projects\HAM\20082 Roadway\Sheets\20082GP201.dgn 20-MAY-2011 1:45PM hossain



*NOTE:
SEE SHEET 240 FOR GUARDRAIL DETAILS



EASTBOUND ELBERON
CURVE EE-1
P.I. STA. 52+65.68
 $\Delta = 37^\circ 24' 59''$ (RT)
 $Dc = 7^\circ 18' 11''$
 $R = 784.56'$
 $T = 265.68'$
 $L = 512.35'$
 $E = 43.77'$
 $emax = 0.046$

0

10

20

40

HORIZONTAL
SCALE IN FEET

CALCULATED

MH

CHECKED

AS

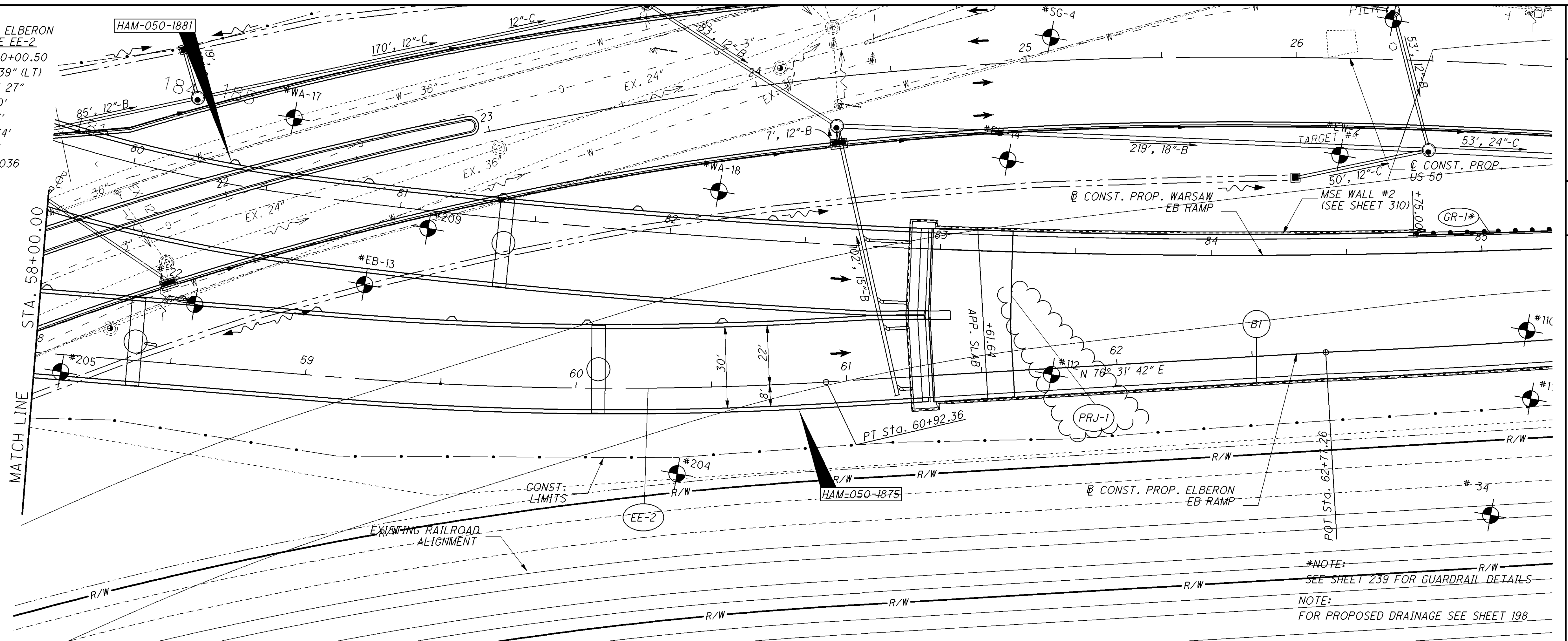
PLAN (EB ELBERON RAMP)

STA. 53+00.00 TO STA. 58+00.00

HAM-50-18.79

128
657

EASTBOUND ELBERON
RAMP CURVE EE-2
P.I. STA. 60+00.50
 $\Delta = 8^{\circ} 06' 39''$ (LT)
 $Dc = 4^{\circ} 24' 27''$
 $R = 1300.00'$
 $T = 92.1677'$
 $L = 184.0274'$
 $E = 3.7632'$
 $e_{MAX} = 0.036$



*NOTE:
SEE SHEET 239 FOR GUARDRAIL DETAILS
NOTE:
FOR PROPOSED DRAINAGE SEE SHEET 198

FOR PROFILE SEE SHEET 131

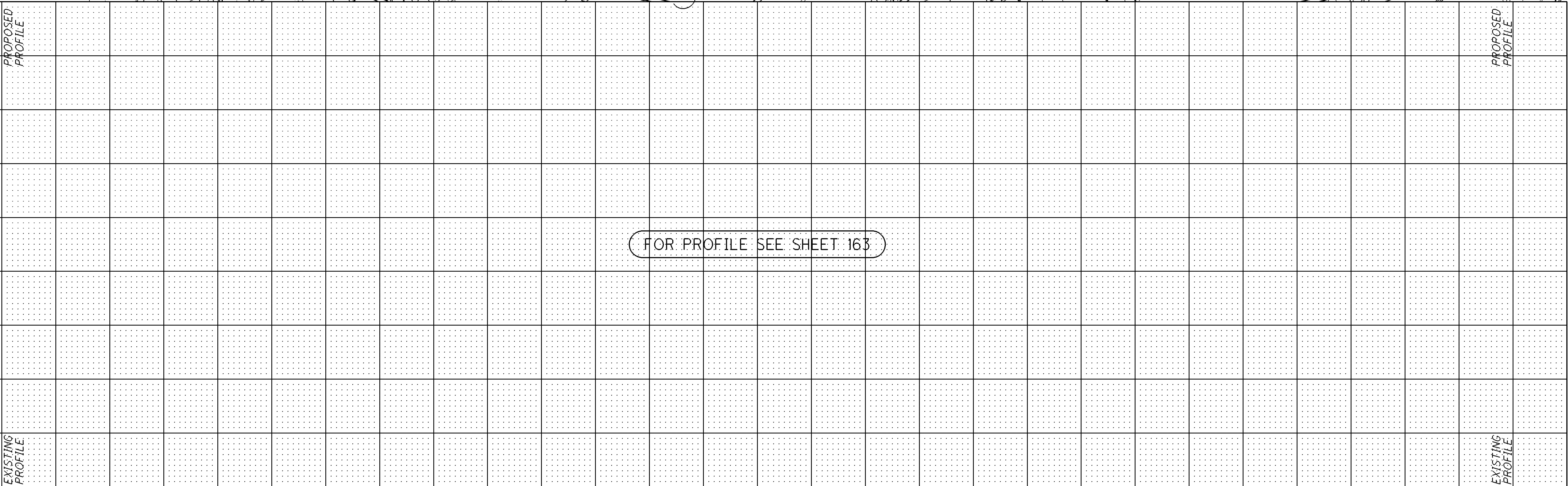
PLAN (EB ELBERON RAMP)
STA. 58+00.00 TO STA. 62+77.26

HAM-50-18.79

130
657



WESTBOUND WARSAW
RAMP CURVE WW-1
P.I. STA. 105+88.96
 $\Delta = 92^\circ 25' 16''$ (LT)
 $D_c = 13^\circ 38' 31''$
 $R = 420.00'$
 $T = 438.13'$
 $L = 677.48'$
 $E = 186.93'$
 $e_{max} = 0.058$



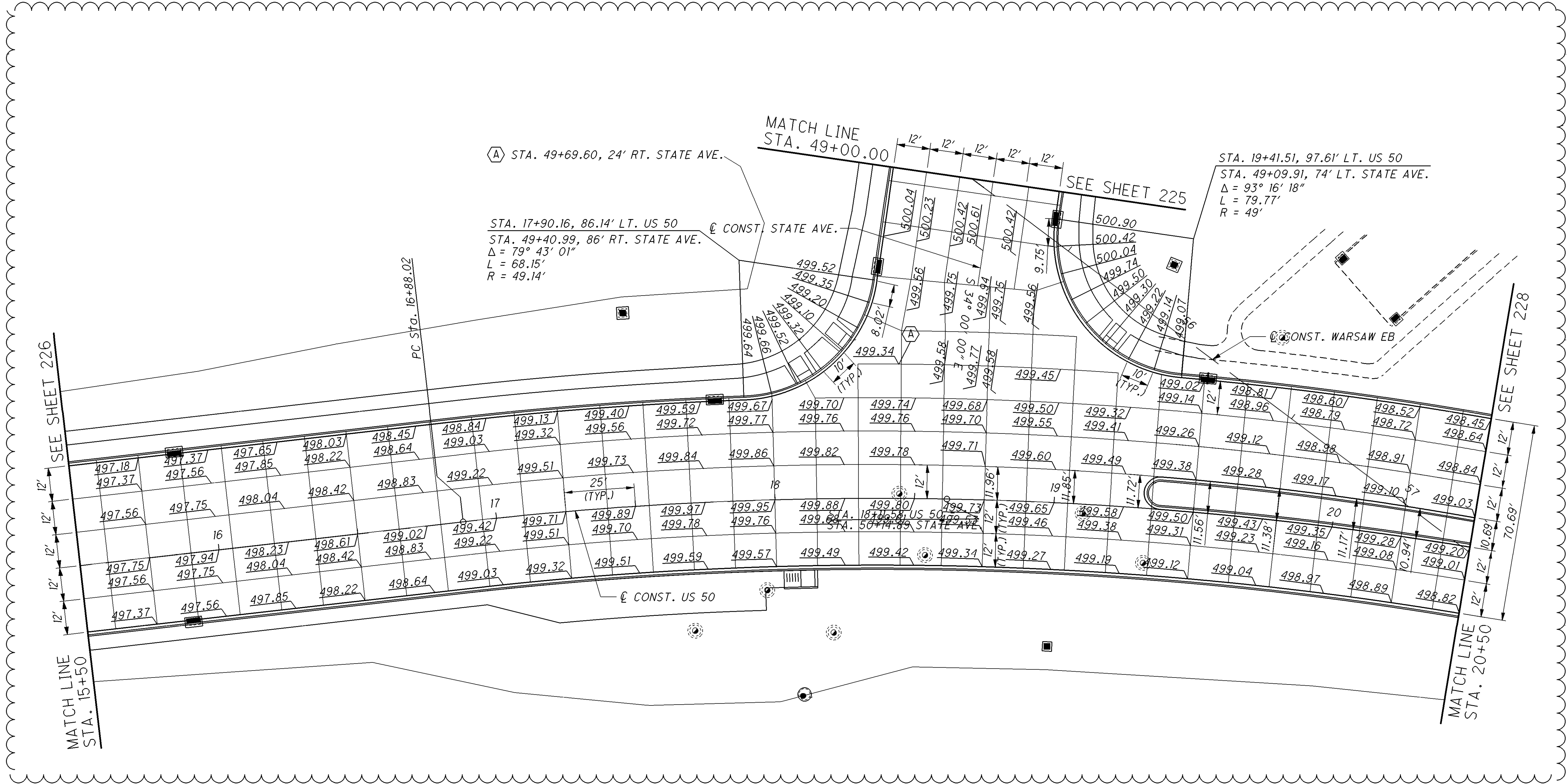
EXISTING
PROFILE

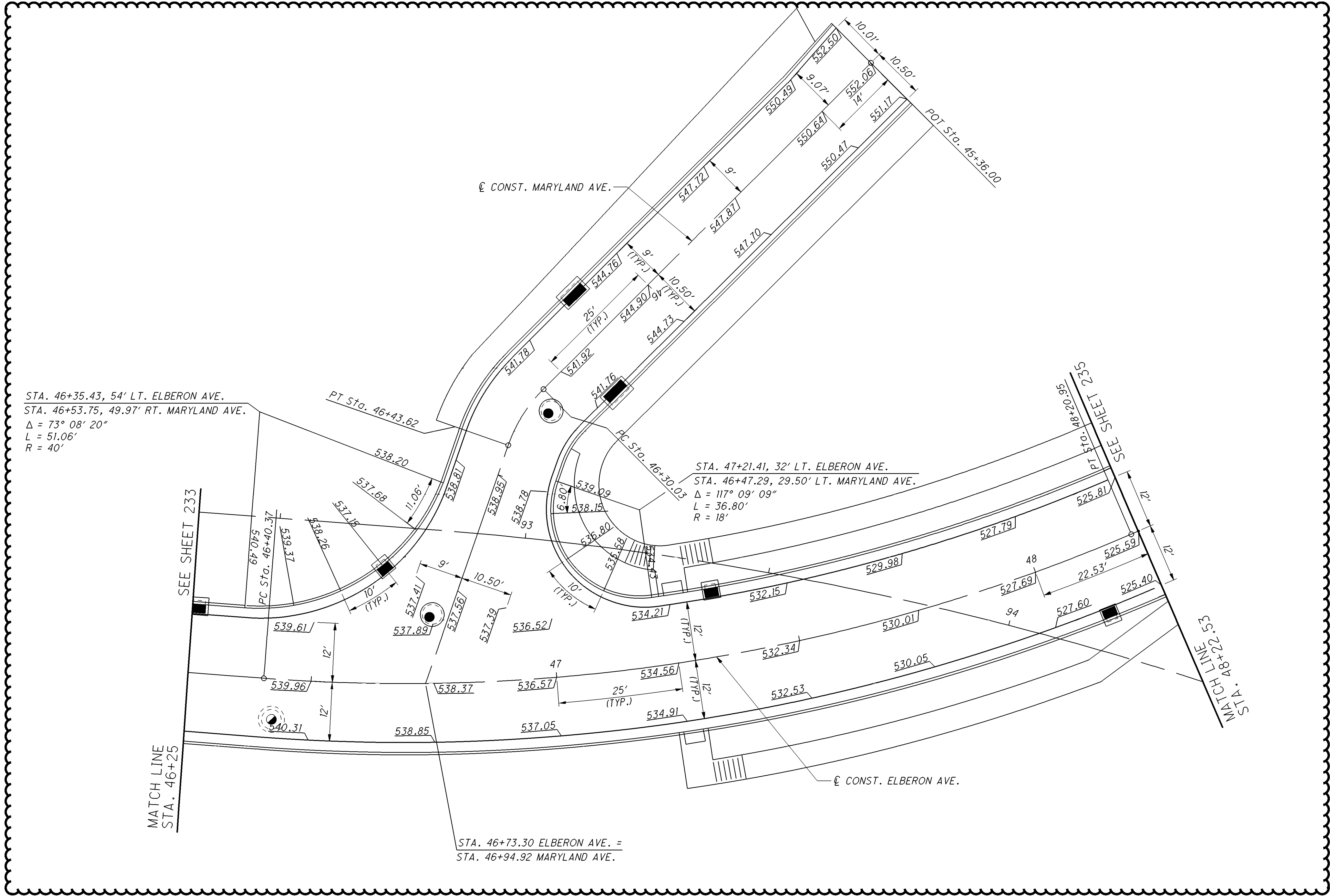
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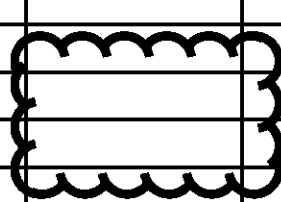
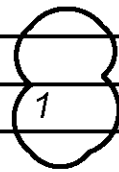
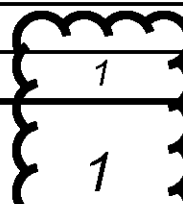
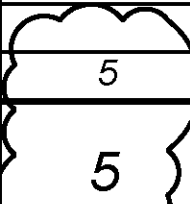
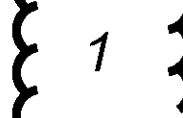


HAM-50-18.79

$$\begin{array}{r} 162 \\ \hline 657 \end{array}$$





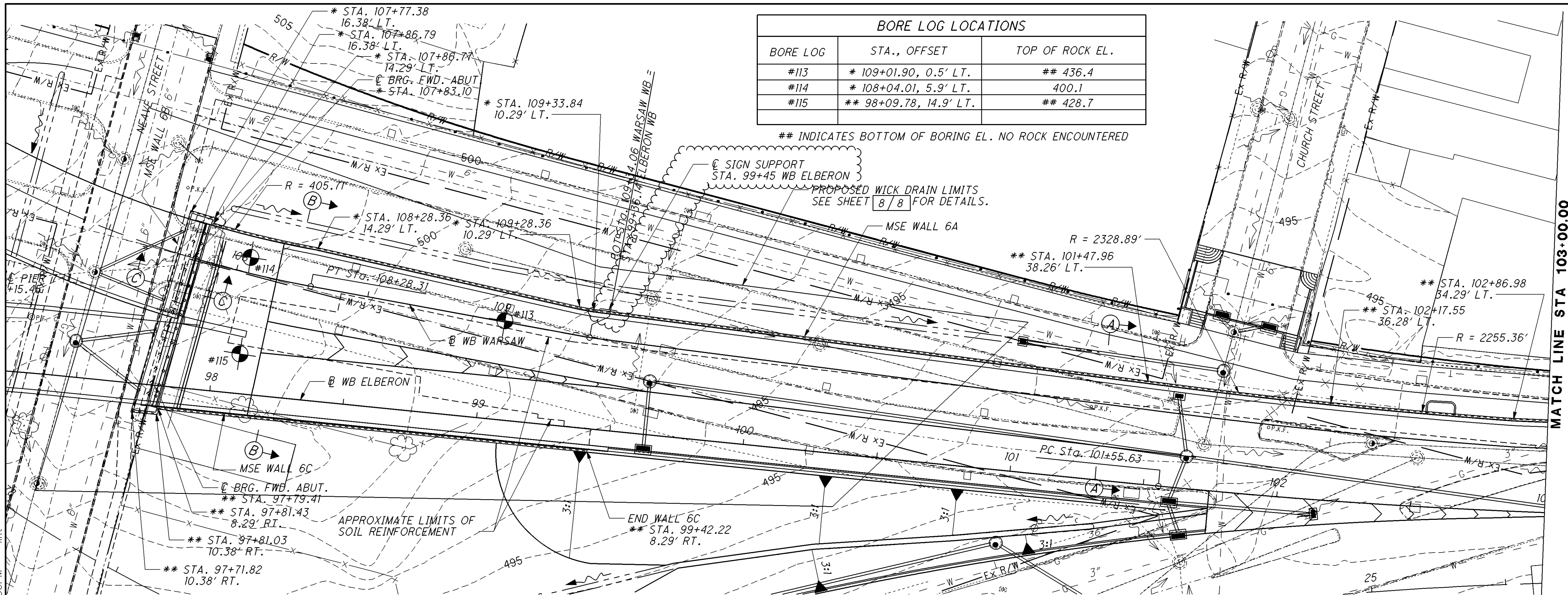
SHEET NO.	REFERENCE NO.	STATION	CODE	SIZE (FEET)	630																								CALCULATED JTP CHECKED NJC
					OVERHEAD SIGN SUPPORT, TYPE TC-9.30, DESIGN 1	GROUND MOUNTED SUPPORT, NO. 2 POST		GROUND MOUNTED SUPPORT, NO. 3 POST		STREET NAME SIGN SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	SIGN ERECTED, FLAT SHEET	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8	SIGN, GROUND MOUNTED EXTRUSHEET	SIGN, OVERHEAD EXTRUSHEET	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.40	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	SIGN SUPPORT ASSEMBLY, POLE MOUNTED										
					EACH	FT		FT		FT	SQ. FT.	SQ. FT.	EACH	EACH	SQ. FT.	SQ. FT.	EACH	EACH	EACH										
248	S-17	49+36	CITY SUPPLIED						14		2.25																		
			CITY SUPPLIED								2.25																		
			CITY SUPPLIED								2.25																		
			CITY SUPPLIED								2.25																		
249	S-18	82+50	W4-3R-36	3 x 3			14.75				9																		
249	S-19	26+16	CITY 13B	1 x 1.5		12					1.5																		
249	S-20	25+50	GE1-H3	8.5 x 5									1		42.5		2												
			GE1-H3	15 x 6											90														
			GE1-H3	8 x 5											40														
			GE1-H3	8 x 5											40														
249	S-21	102+09	CITY 13B	1 x 1.5		12					1.5																		
249	S-21A	22+00	W3-3A-36	3 x 3					15.5		9																		
249	S-22	101+76	CITY 13B	1 x 1.5		12					1.5																		
	S-23		NOT USED																										
249	S-24	99+45	GE1-H3	10 x 5								1			40			1											
			GE1-H3	10 x 5											40														
			R2-1-24	2 x 2.5							5																		
			R2-1-24	2 x 2.5							5																		
250	S-25	31+50	W4-3R-36	3 x 3			14.75				9																		
251	S-26	93+00	CITY 13B	1 x 1.5		12					1.5																		
251	S-27	93+23	R2-1-36	3 x 4			29.00				12																		
251	S-27A	93+23	R9-3A-24	2 x 2		12					4																		
251	S-28	37+29	R2-1-36	3 x 4			29.00				12																		
251	S-29	21+36	W10-1-36	3			13.50				9																		
251	S-30	22+02	CITY 13B	1 x 1.5		12					1.5																		
251	S-31	20+80	R1-1-36	3 x 3					15.5		9																		
			CITY SUPPLIED								2.25																		
			CITY SUPPLIED								2.25																		
			CITY SUPPLIED								2.25																		
			CITY SUPPLIED								2.25																		
251	S-32	33+18	CITY 13B	1 x 1.5		12					1.5																		
252	S-33	39+34.7	D3-H6-84	7 x 3	1											21		1											
			M3-2-24	2 x 1							2																		
			M1-4-30-2	2.5 x 2.5							6.25																		
			M3-2-24	2 x 1							2																		
			M1-5-30-3	3.2 x 2.5							8																		
252	S-34	39+00	GE1-H3	15 x 6								1			90		1												
			GE1-H3	8 x 5											40														
253	S-35	43+54	M2-H3-42	3.5 x 4.5			31				17.5																		
			M2-H3-42	3.5 x 4.5			31				17.5																		
253	S-35A	52+25	R2-1-24	2 x 2.5		13					5																		
253	S-36	46+56	CITY SUPPLIED			13.25						2.25																	
SUB-TOTAL					1	97.25		163		45	150.25	20.25	2	1	0	443.5			4										
TOTALS CARRIED TO GENERAL SUMMARY					1	97.3		163		45	150.3	20.3	2	1	0	443.5			4										

ALTERNATIVE RAILING DETAIL
(SEE NOTE 3)

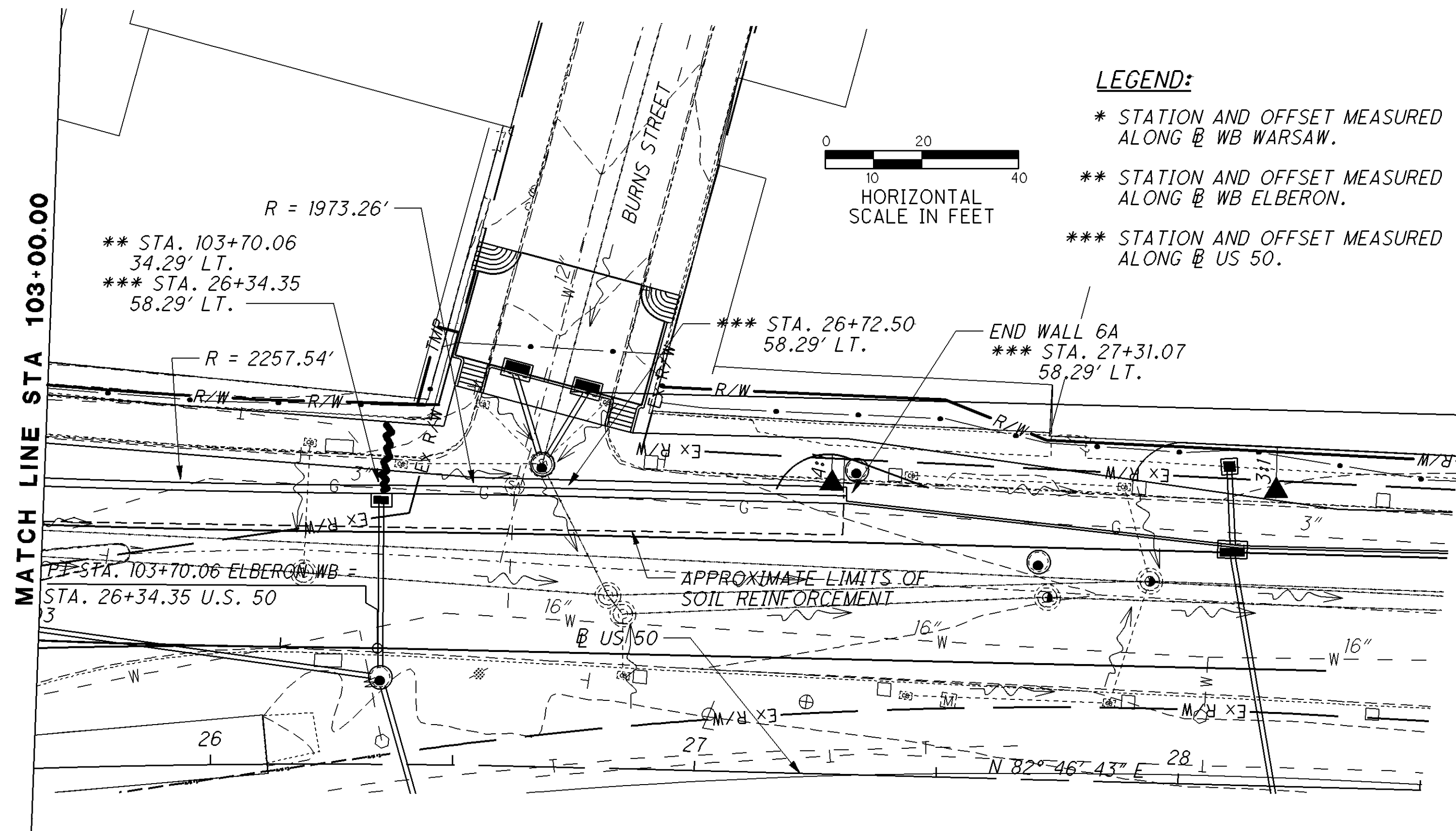
COPING EXPANSION JOINT DETAIL

CAST-IN-PLACE CONCRETE COPING

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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.

		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			LUMP	COFFERDAMS AND EXCAVATION BRACING	
509	10000	66,945		POUND	EPOXY COATED REINFORCING STEEL	
512	10001	1037		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	452		CU YD	OC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET)	

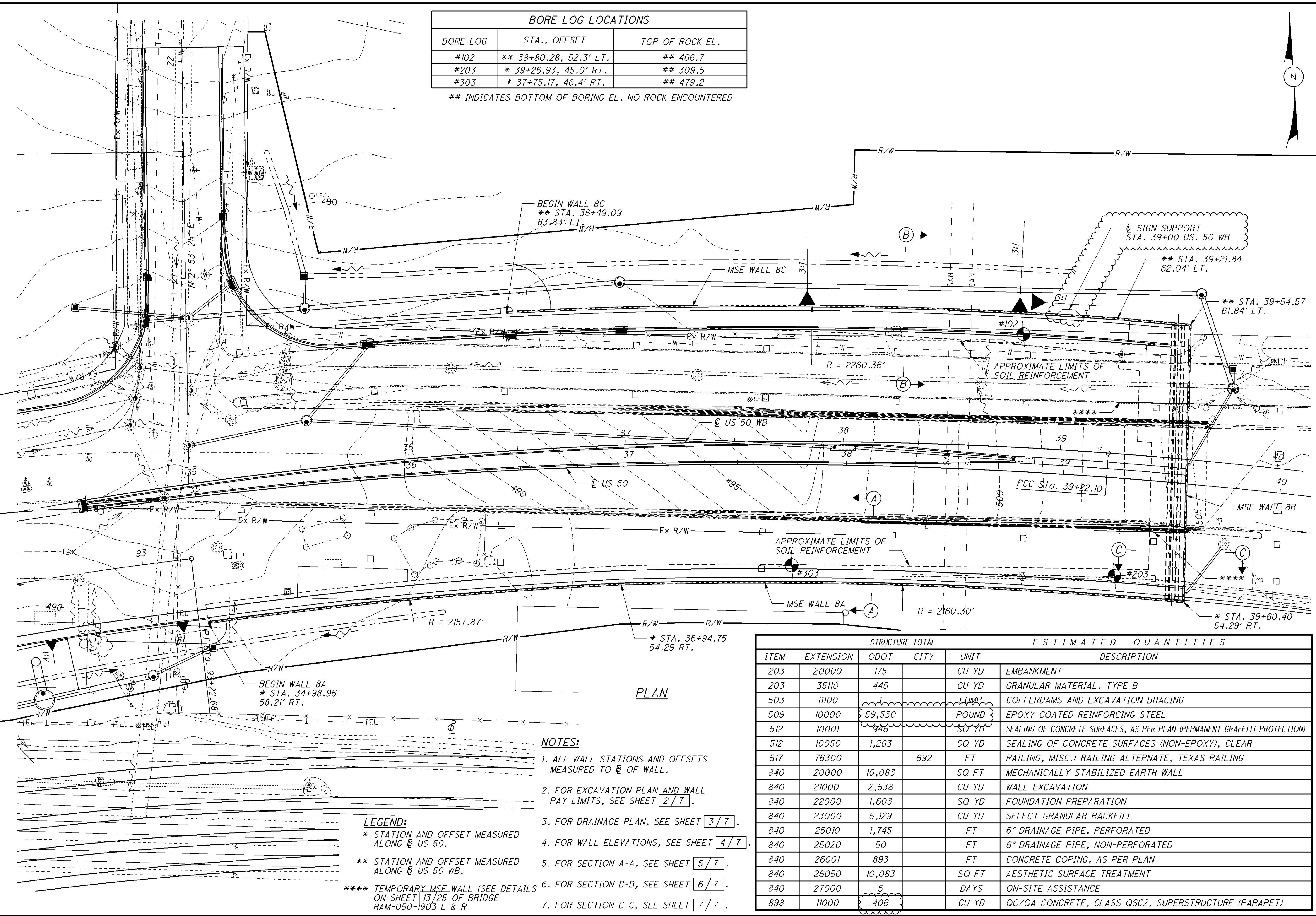
NOTES:

- ALL WALL STATIONS AND OFFSETS MEASURED TO $\emptyset$ 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.
- FOUNDATION PREPARATION AS PER PLAN SHALL CONFORM TO SS840 WITH THE EXCEPTION THAT NO GRANULAR MATERIAL, TYPE C IS INCLUDED IN 3,617 SQ YD OF THE QUANTITY AND 645 SQ YD OF THIS ITEM WILL INCLUDE TYPE C MATERIAL AS SHOWN ON SECTION A-A SHEET 5/8.

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BORE LOG LOCATIONS		
BORE LOG	STA., OFFSET	TOP OF ROCK EL.
#102	** 38+80.28, 52.3' LT.	** 466.7
#203	* 39+26.93, 45.0' RT.	** 309.5
#303	* 37+75.17, 46.4' RT.	** 479.2

** INDICATES BOTTOM OF BORING EL. NO ROCK ENCOUNTERED



PLAN

- NOTES:
- ALL WALL STATIONS AND OFFSETS MEASURED TO ϕ OF WALL.
 - FOR EXCAVATION PLAN AND WALL PAY LIMITS, SEE SHEET 2/7.
 - FOR DRAINAGE PLAN, SEE SHEET 3/7.
 - FOR WALL ELEVATIONS, SEE SHEET 4/7.
 - FOR SECTION A-A, SEE SHEET 5/7.
 - FOR SECTION B-B, SEE SHEET 6/7.
 - FOR SECTION C-C, SEE SHEET 7/7.

LEGEND:
* STATION AND OFFSET MEASURED ALONG ϕ US 50.
** STATION AND OFFSET MEASURED ALONG ϕ 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			LUMP	COFFERDAMS AND EXCAVATION BRACING
509	10000	59,530		POUND	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	20000	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	406		CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)

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

DATE
11/16/10

REVIEWED
EBS

DRAWN
NAL

DESIGNED
BMG

CHECKED
P.JL

STRUCTURE FILE NUMBER

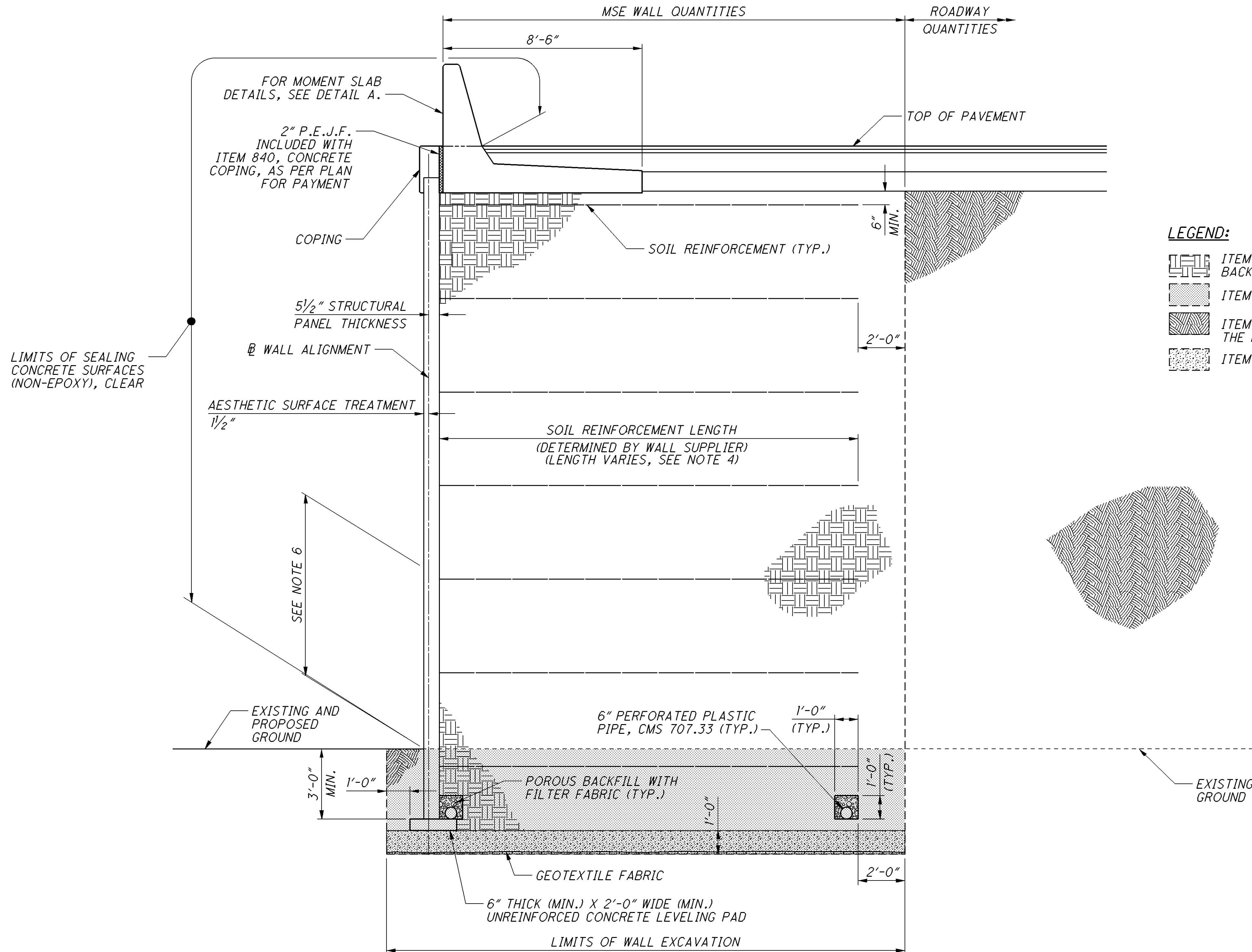
WALL 8 SITE PLAN

HAM-50-18.79

PID No. 20082

1 / 7

341
657



LEGEND:

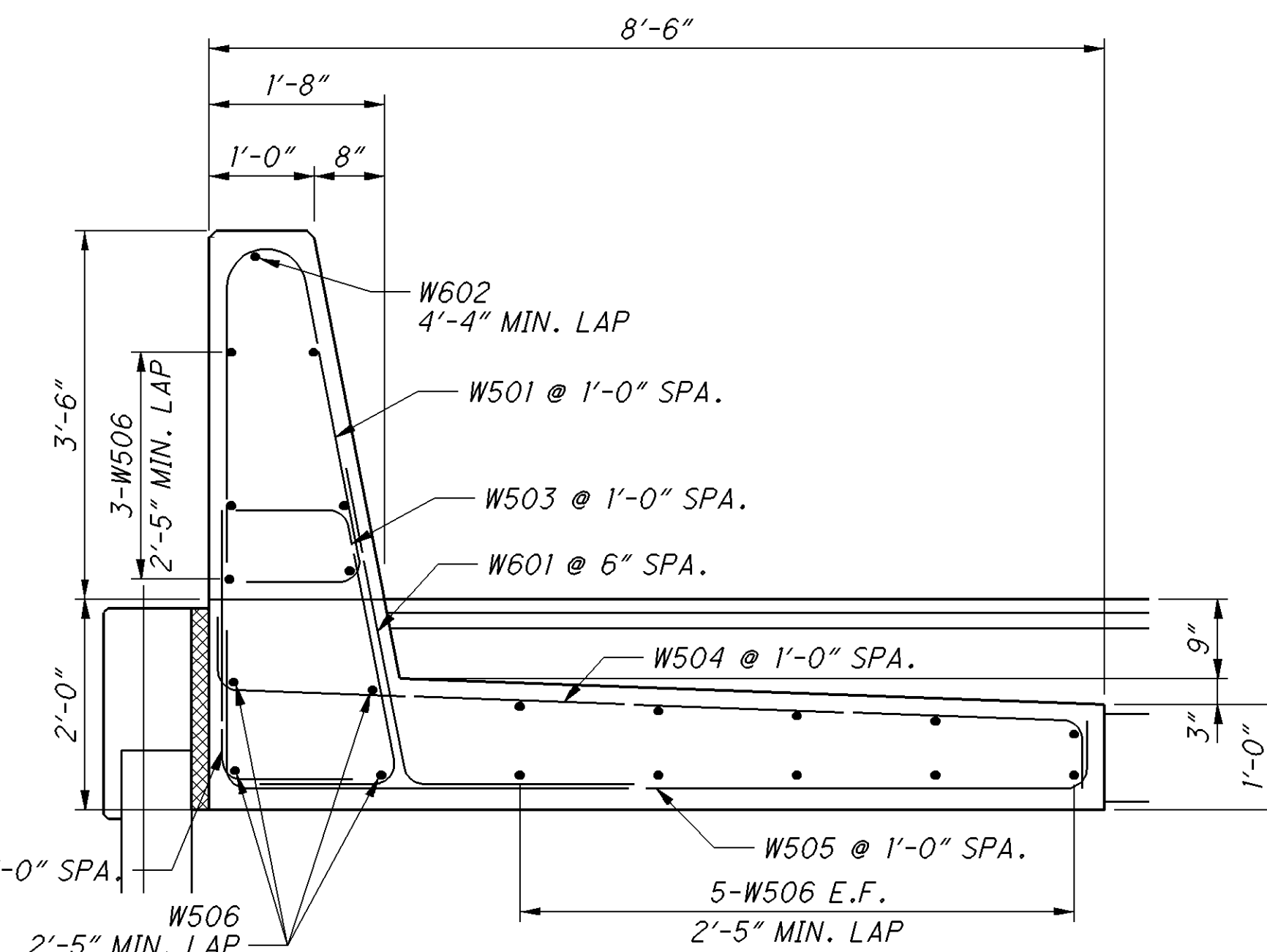
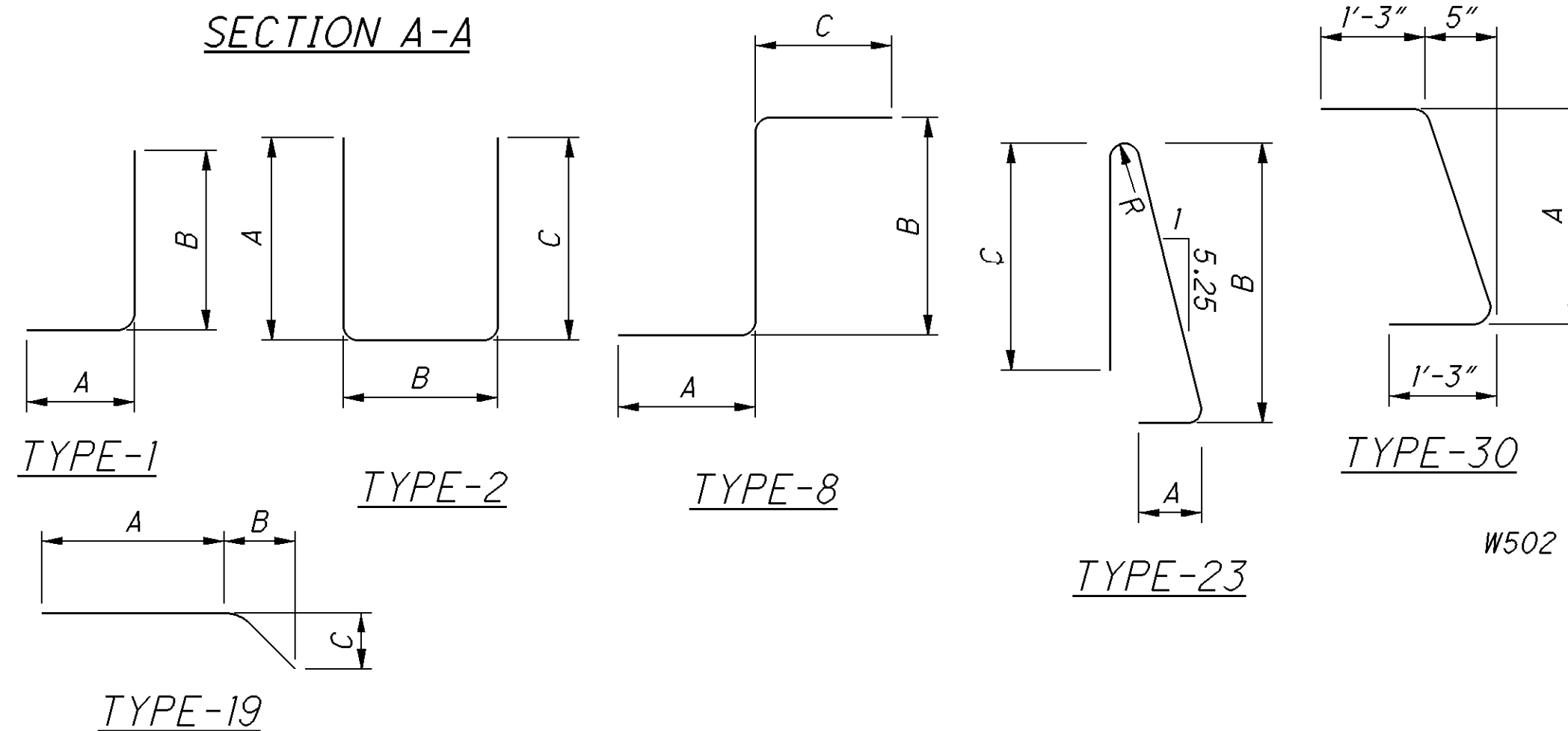
- ITEM 840 SELECT GRANULAR BACKFILL (SGB)
- ITEM 840 WALL EXCAVATION
- ITEM 203 EMBANKMENT TO BE INCLUDED WITH THE ROADWAY QUANTITIES
- ITEM 203 GRANULAR MATERIAL, TYPE C

NOTES:

- THE LINE WHICH DEFINES THE LIMIT OF THE SELECT GRANULAR BACKFILL IS NOT AN ALLOWABLE SLOPE FOR EXCAVATION. CUT THE SIDES OF ALL EXCAVATIONS TO PREVENT CAVING, OR PROTECT THE EXCAVATION FROM CAVING.
- DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 840. THE ALLOWABLE BEARING PRESSURE AT THE BASE OF THE REINFORCED SOIL MASS IS 5.0 K/FT². CONTACT THE ENGINEER IF THE ACTUAL BEARING PRESSURE WILL EXCEED THE ALLOWABLE BEARING PRESSURE. PROVIDE SOIL REINFORCEMENT WITH A MINIMUM LENGTH AS SHOWN ON WALL 8A ON SHEET 4/7, TO SATISFY EXTERNAL STABILITY REQUIREMENTS.
- FOR LOCATION OF SECTION A-A, SEE SHEETS 1/7, 2/7, 3/7, & 4/7.
- FOR MINIMUM SOIL REINFORCEMENT LENGTHS, SEE SHEET 4/7.
- SEALING OF CONCRETE SURFACE (NON-EPOXY) SHALL BE CLEAR.
- ALL EXPOSED MSE WALL SURFACES SHALL BE TREATED WITH ITEM 512 SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION) WITHIN 10 FEET OF THE PROPOSED GROUND LINE.

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS			
	TOTAL				A	B	C	R
W501	695	7'-7"	5,498	23	1'-5"	3'-2"	3'-0"	3 3/8"
W502	695	7'-1"	5,135	1	2'-7"	4'-7"	.	.
W503	695	4'-10"	3,504	30	2'-6"	.	.	.
W504	695	9'-7"	6,947	8	1'-0"	8'-2"	8"	.
W505	695	9'-7"	6,947	2	1'-0"	8'-2"	8"	.
W506	500	30'-0"	15,645	S	.	.	.	.
W601	1386	6'-11"	14,399	19	2'-5"	7"	4'-5"	.
W602	27	30'-0"	1,217	S	.	.	.	.
TOTAL			59,292					

SECTION A-A



DETAIL A

SEE SHEET 308 FOR ALTERNATE DETAIL.
SEE SHEET 309A AND 309B FOR SIGN SUPPORT DETAILS.

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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 / ₁₆ ") (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. 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 PAINING, REINFORCEMENT, SEALING, RAILINGS AND SHOP DRAWING PREPARATION SHALL BE INCLUDED WITH THIS ITEM FOR PAYMENT. SEE SHEET ~~4734~~ FOR COLOR REQUIREMENTS. ALL REINFORCEMENT SHALL BE EPOXY COATED. THE ALTERNATE RAILING OPTION WILL REPLACE 20,479 POUNDS OF REINFORCEMENT AND 695 SQ. YD. OF SEALING.

** 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

CHECKED

SJA

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

375

657

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	11002	LUMP		STRUCTURE REMOVED, OVER 20 FOOT SPAN					LUMP		
202	22900	134	SY	APPROACH SLAB REMOVED				134			
SPECIAL	20307502	3	EACH	INCLINOMETER	1	2				5 / 34	
503	21300	LUMP		UNCLASSIFIED EXCAVATION							
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION							
507	00700	1680	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		1680					
507	00750	1825	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		1825					
509	10000	280847	LB	EPOXY COATED REINFORCING STEEL	9753	71197	199897				
512	10001	118	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)		118				4 / 34	
512	10050	1339	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	102		1237				
512	10100	381	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		381					
513	10300	642378	LB	STRUCTURAL STEEL MEMBERS, LEVEL 5			642378				
513	20000	6336	EACH	WELDED STUD SHEAR CONNECTORS			6336				
513	95030	4	EACH	STRUCTURAL STEEL MISC. : SURVEY PRISM MOUNT	2	2				5 / 34	
514	00060	33787	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			33787				
514	00066	33787	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			33787				
514	10000	25	EACH	FINAL INSPECTION REPAIR			25				
516	11211	37	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN			37			10 / 34	
516	13600	7	SF	1" PREFORMED EXPANSION JOINT FILLER	7						
516	13900	15	SF	2" PREFORMED EXPANSION JOINT FILLER	15						
516	44200	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-6" DIA. x 3 ⁹ / ₁₆ ") (EXPANSION)	4						
516	44300	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2'-0" DIA. x 4 ³ / ₈ ") (EXPANSION)		4					
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-6" DIA. x 8 ¹ / ₂ ") (SPECIAL)	4						
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2'-2" DIA. x 6") (FIXED)		4					
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2'-2" DIA. x 6") (EXPANSION)		4					
516	44400	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2'-2" DIA. x 6 ⁷ / ₈ ") (EXPANSION)		4					
517	76300	1159	FT	RAILING, MISC: RAILING ALTERNATE, MINNESOTA RAILING *			1159			6 & 24 / 34	
518	12300	3	EACH	SCUPPERS, INCLUDING SUPPORTS			3				
518	51100	27	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS					34		
518	60030	103	FT	PIPE HORIZONTAL CONDUCTOR					103		
523	20000	2	EACH	DYNAMIC LOAD TESTING		2					
524	94903	156	FT	DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK, AS PER PLAN	156					4 / 34	
524	94907	756	FT	DRILLED SHAFTS, 54" DIAMETER, ABOVE BEDROCK, AS PER PLAN		756				4 / 34	
898	10201	555	CY	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			555			4 / 34	
898	10709	108	SY	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN				108		4 / 34	
898	11000	135	CY	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)			135				
898	20100	256	CY	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		256					
898	20160	54	CY	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	54						
898	20300	311	CY	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (FOOTING)		311					

* 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. 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 4/34 FOR COLOR REQUIREMENTS. ALL REINFORCEMENT SHALL BE EPOXY COATED. THE ALTERNATE RAILING OPTION WILL REPLACE 27,596 POUNDS OF REINFORCEMENT AND 948 SQ. YD. OF SEALING.

ITEM	EXTENSION	STRUCTURE TOTAL		UNIT	ESTIMATED QUANTITIES DESCRIPTION	HAM-050-1881				SEE SHEET NO.
		ODOT	CITY			ABUT.	PIER	SUPER.	GEN.	
202	11203	1		LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER					5/47
202	22901	134		SQ YD	APPROACH SLAB REMOVED, AS PER PLAN				134	5/47
SPECIAL	203E65000	4		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 14 1/4" 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 8 5/8" 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 11 5/8" 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			LUMP	SPECIAL-MISC.: TEMPORARY SURCHARGE					
898	10201	943		CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			943		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

ESTIMATED QUANTITIES
BRIDGE NO. HAM-050-1881
EB WARSAW AVE. RAMP OVER S.R. 264 AND U.S.R. 50

HAM-50-18.79
PID No. 20082

7/47

483
657

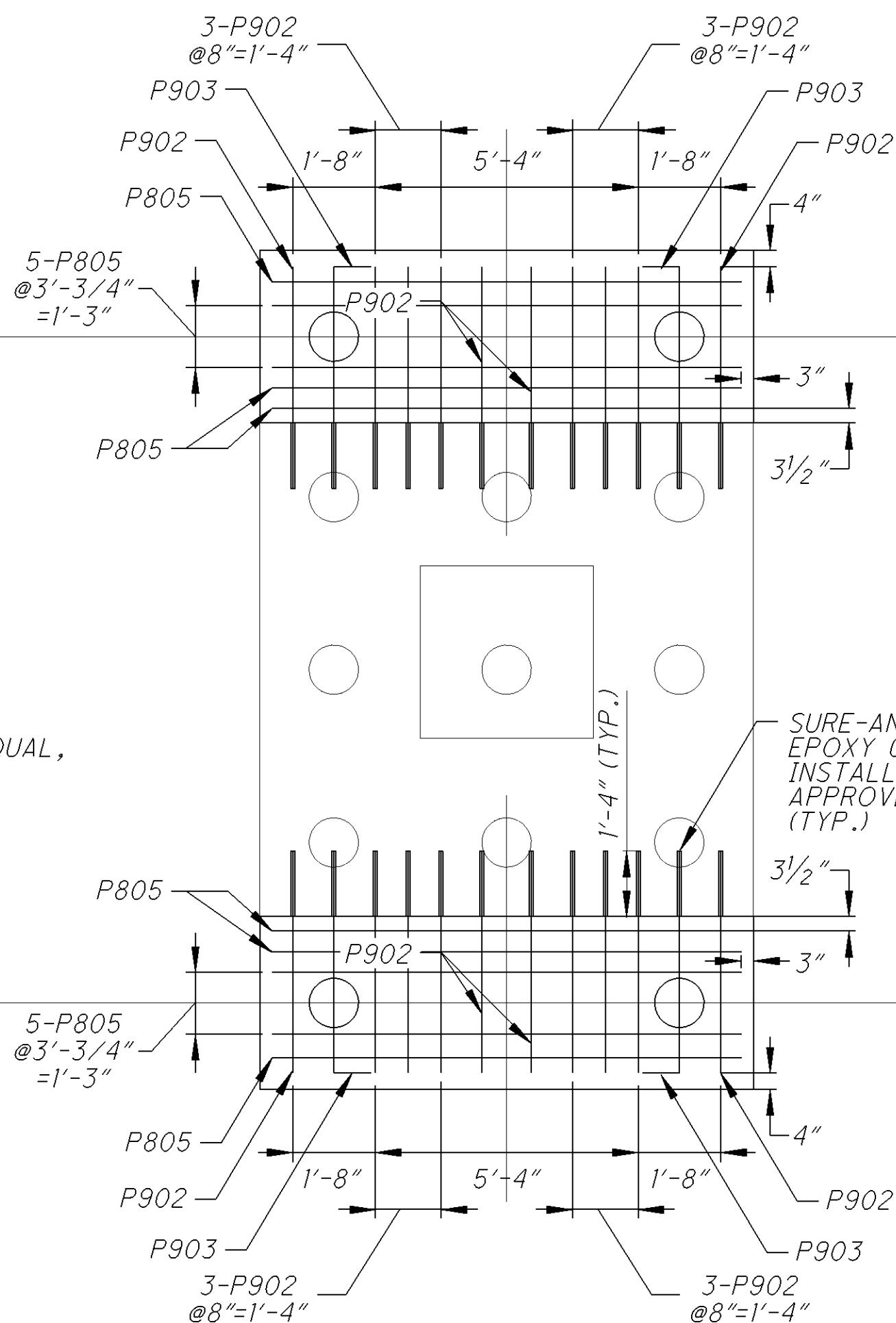
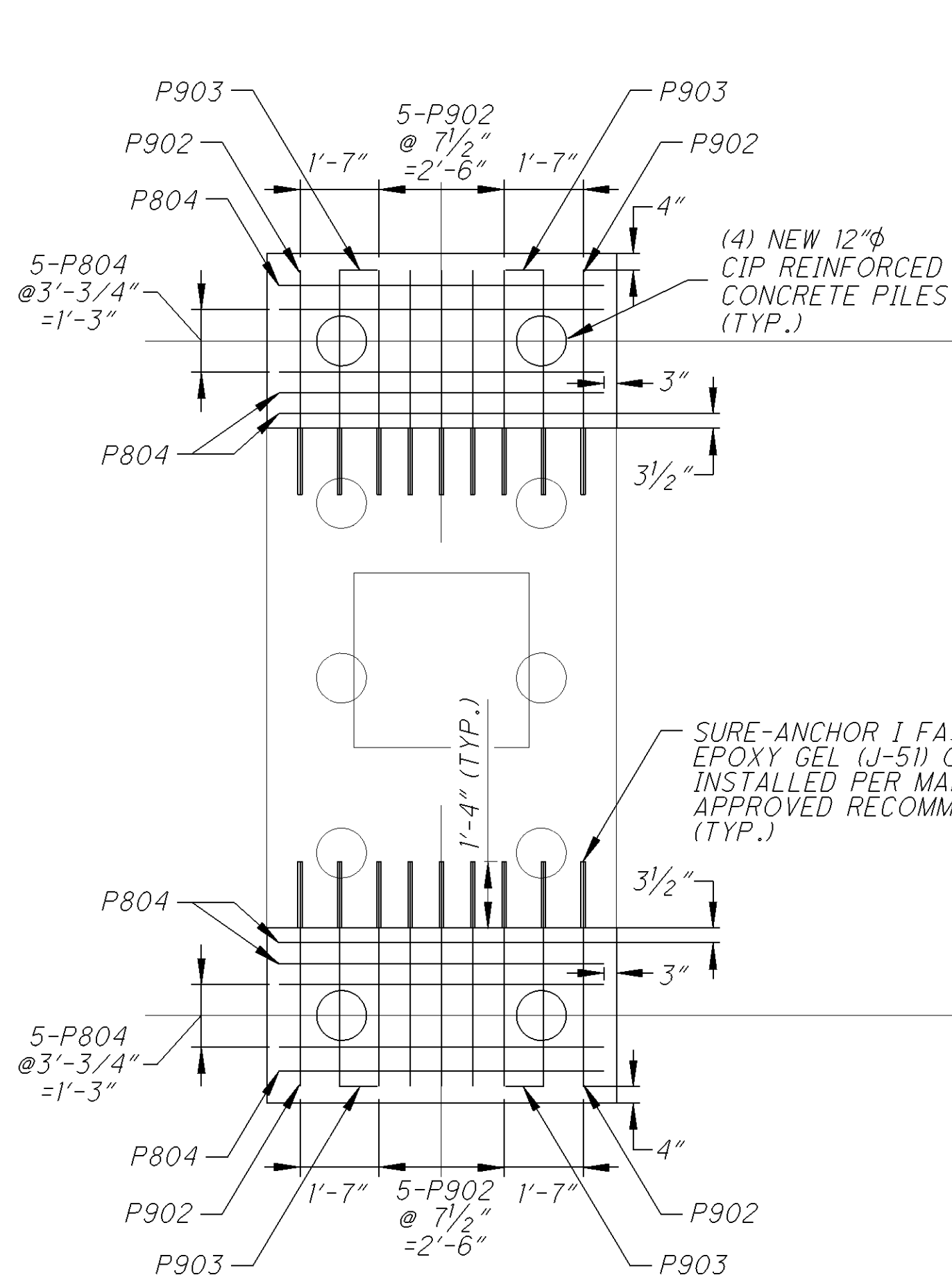
DESIGN AGENCY: PD
PB AMERICAS, INC.
312 ELM STREET
SUITE 2500
CINCINNATI, OHIO 45202

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

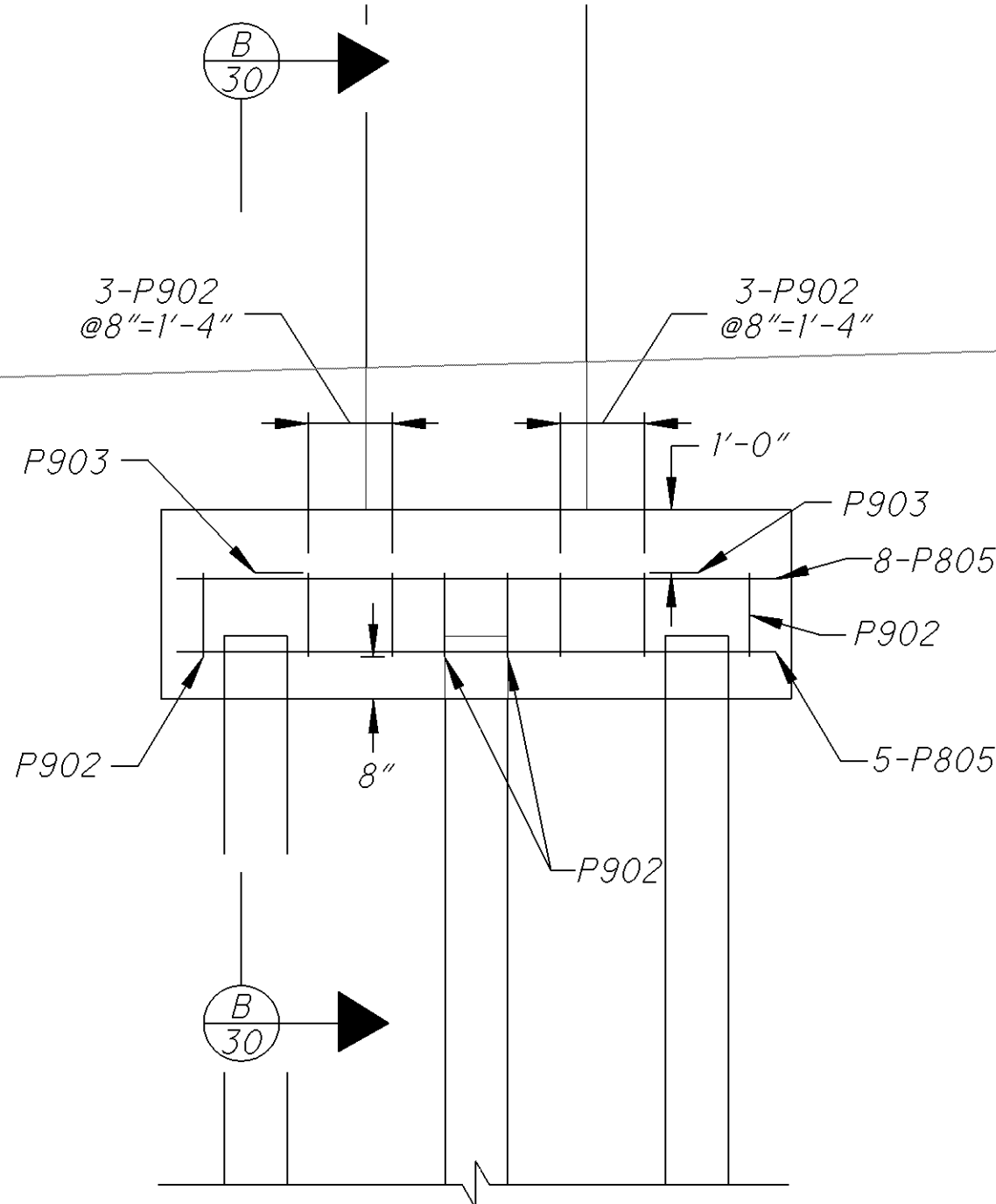
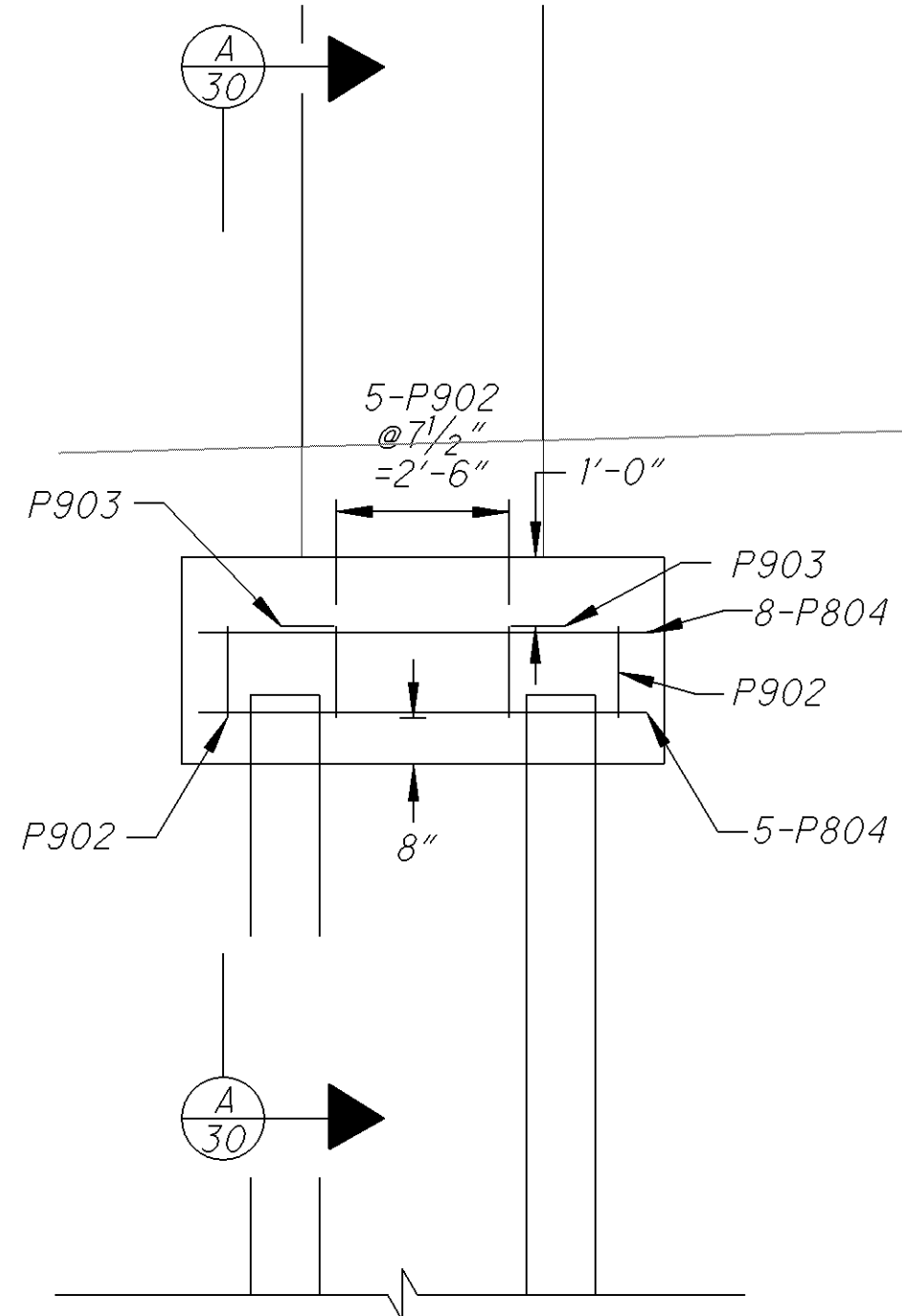
DRAWN: LEL
CHECKED: P.JL
REVISID: SAP

						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			
142798	509	10000	142793	POUND	EPOXY COATED REINFORCING STEEL	10226	24568	107999		
396	510	10000	396	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		396			
936	512	10100	936	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	82	201	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 QSC2, SUPERSTRUCTURE (DECK)			29		
345	898	10201	345	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			345		5/65
223	898	10709	223	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN				223	5/65
51	898	11000	51	CU YD	QC/QA CONCRETE, CLASS QSC2, SUPERSTRUCTURE (PARAPET)			47	4	
67	898	20100	67	CU YD	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		67			
72	898	20160	72	CU YD	QC/QA CONCRETE, CLASS QSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	72				
81	898	20300	81	CU YD	QC/QA CONCRETE, CLASS QSC1, 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		
292	510	10000	292	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		292			
640	512	10100	640	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	73	247	288	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 OSC2, SUPERSTRUCTURE (DECK)			29		
282	898	10201	282	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (DECK), AS PER PLAN			282		5/65
198	898	10709	198	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (APPROACH SLAB), (T=17"), AS PER PLAN				198	5/65
47	898	11000	47	CU YD	QC/QA CONCRETE, CLASS OSC2, SUPERSTRUCTURE (PARAPET)			43	4	
52	898	20100	52	CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (PIER ABOVE FOOTING)		52			
64	898	20160	64	CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (ABUTMENT INCLUDING FOOTING)	64				
63	898	20300	63	CU YD	QC/QA CONCRETE, CLASS OSC1, SUBSTRUCTURE (FOOTING)		63			

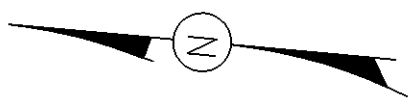


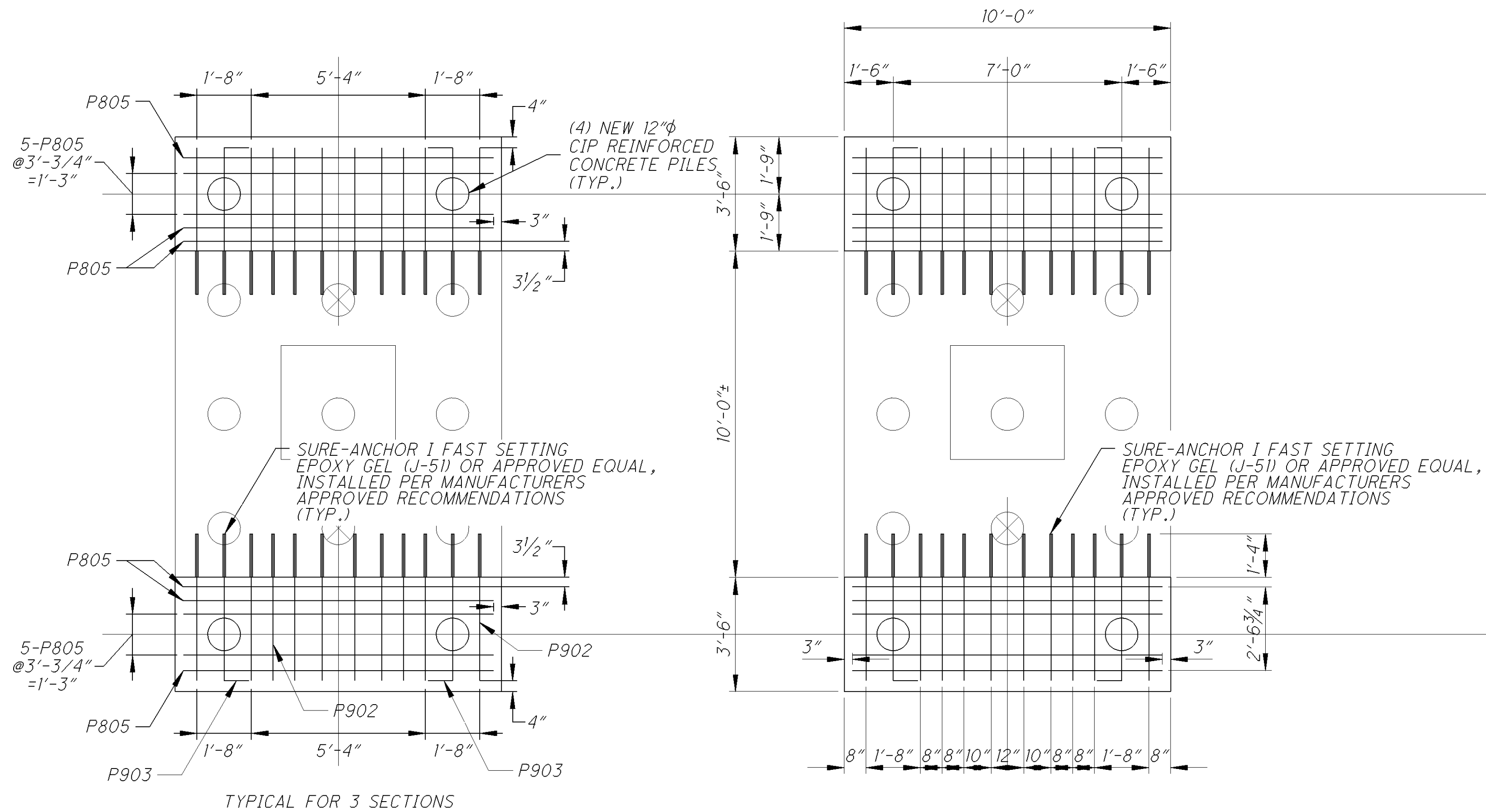
TYPICAL FOR 3 SECTIONS
 PLAN
 BRIDGE NO. HAM-50-1903 L/R



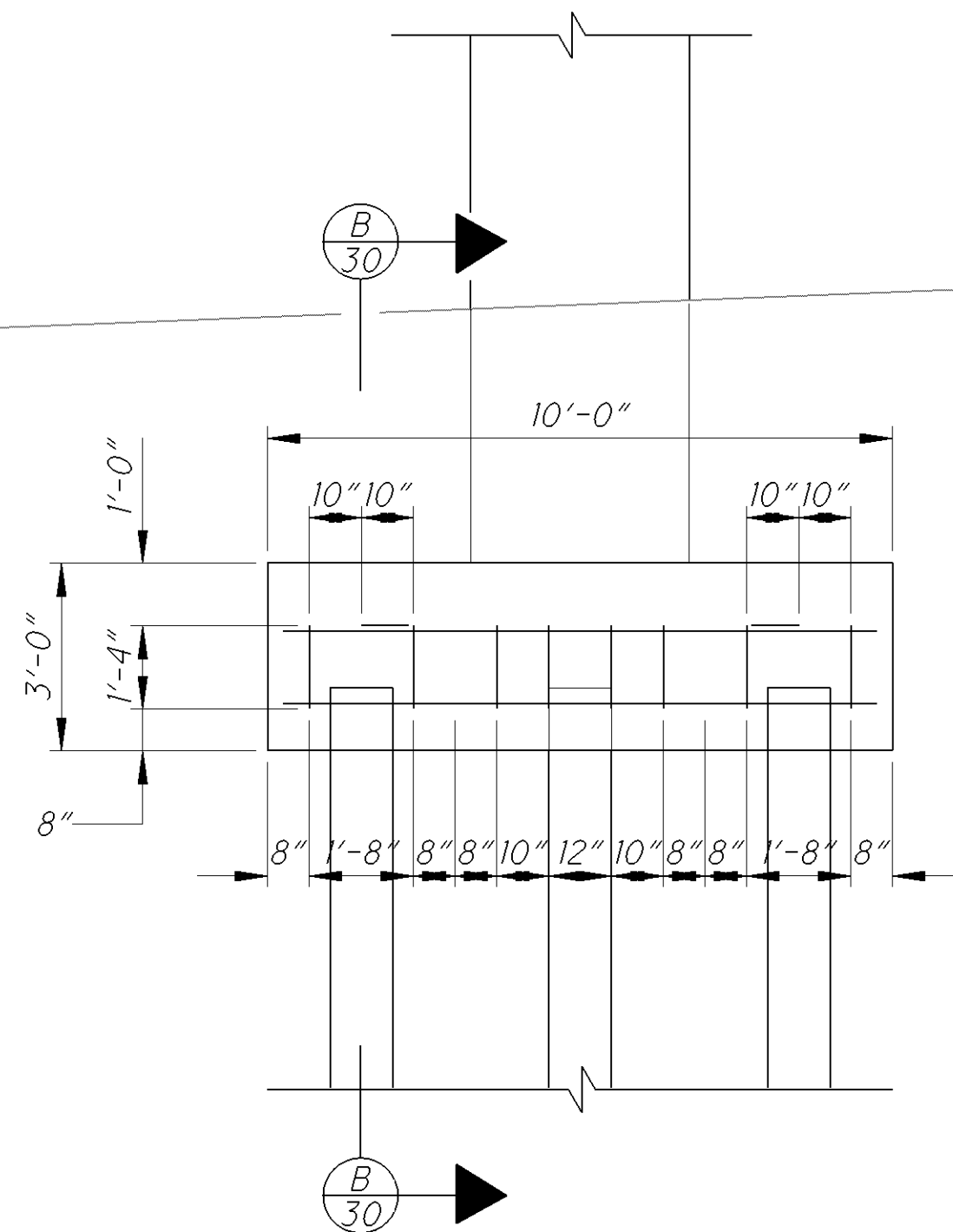
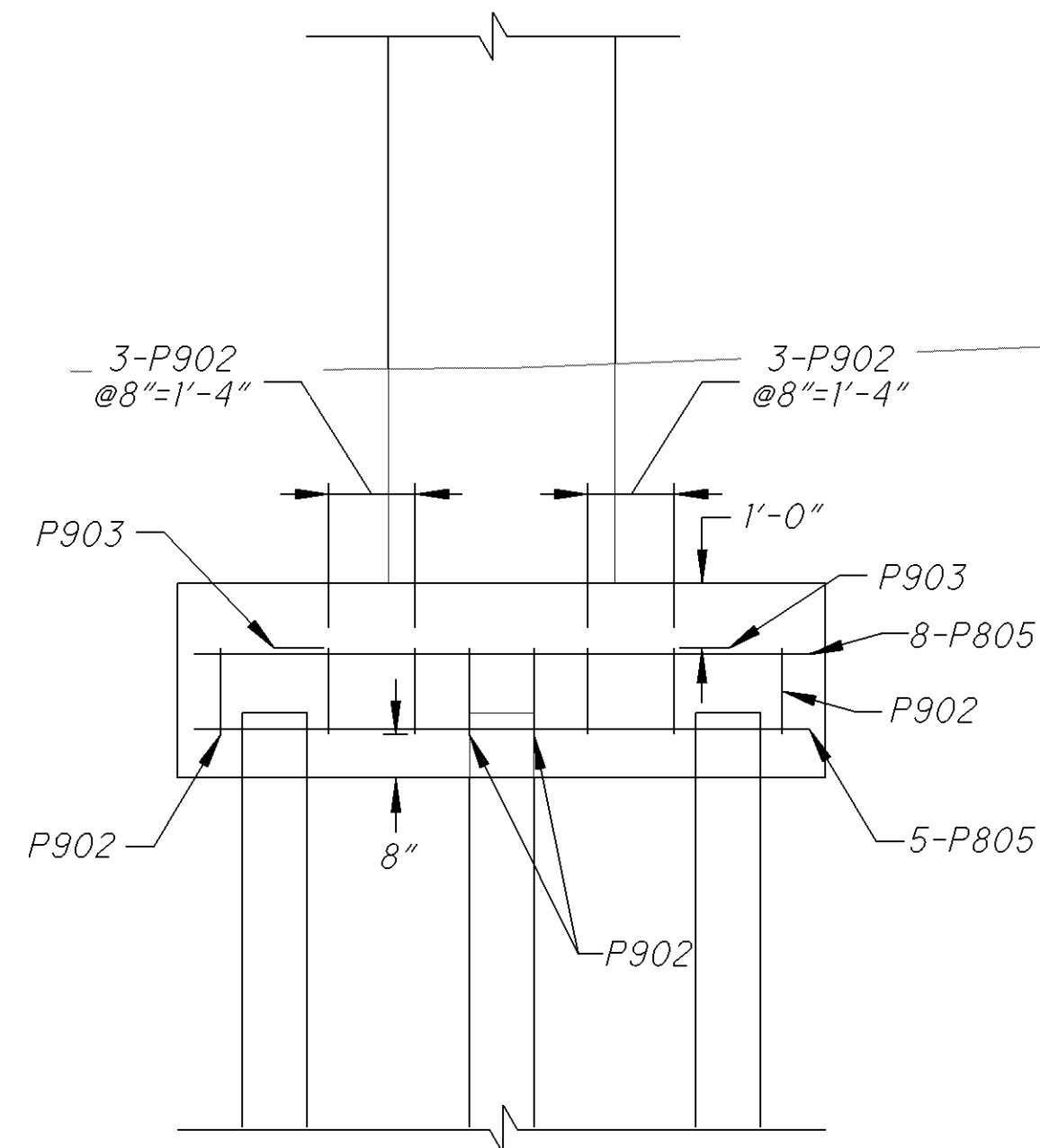
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 ELEVATION
 BRIDGE NO. HAM-50-1903 L/R

NOTES:
 1. PROPOSED PILES SHALL BE 12" CAST-IN-PLACE REINFORCED CONCRETE PILES

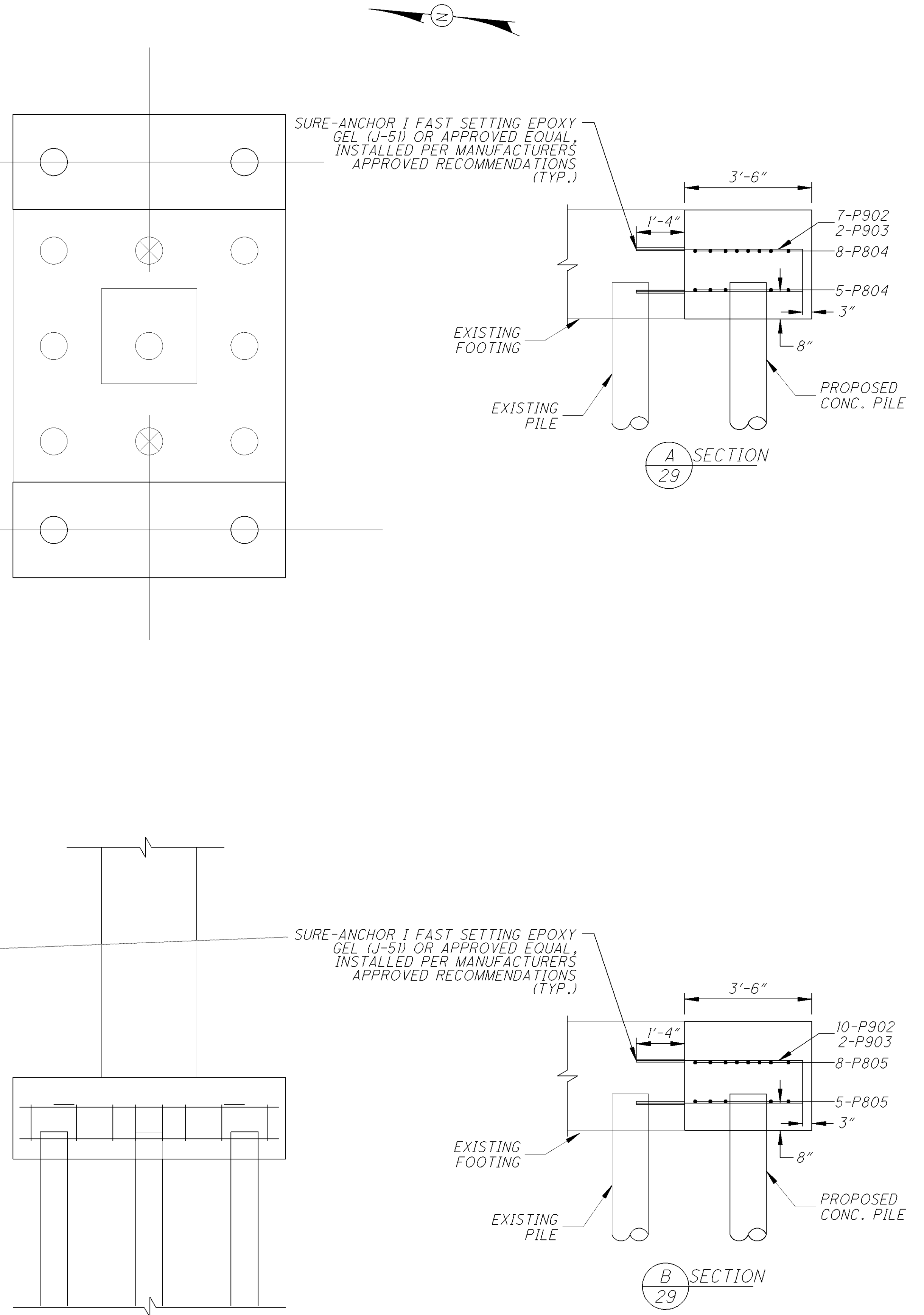




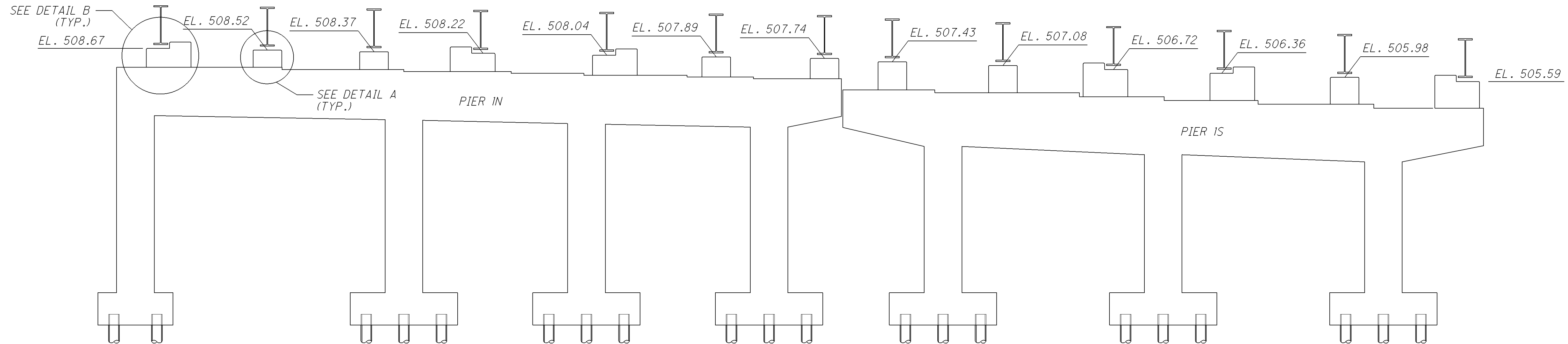
PLAN
BRIDGE NO. HAM-50-1903 L/R



ELEVATION
BRIDGE NO. HAM-50-1903 L/R



- NOTES:
- PROPOSED PILES SHALL BE 12" CAST-IN-PLACE REINFORCED CONCRETE PILES



ELEVATION
BRIDGE NO. HAM-50-1903 L/R

