

ITEM 614. MAINTAINING TRAFFIC

MAINTAIN ALL EXISTING LANES OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, EXCEPT ACCORDING TO THE PERMITTED LANE CLOSURE TIMES NOTE OR AS SHOWN IN THE PLANS, BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- CHRISTMAS FOURTH OF JULY
- NEW YEARS LABOR DAY
- MEMORIAL DAY THANKSGIVING
- US JR TRIATHLON - (JULY 31, AUG 1 & 2)
- VOA METRO PARKS SOCCER TOURNAMENT

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY*	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

*THANKSGIVING ONLY
 SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE ACCORDING TO THE PERMITTED LANE CLOSURE TIMES & UNAUTHORIZED LANE USE TABLE FOR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATION'S OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

ITEM 614. MAINTAINING TRAFFIC (CONTINUED)

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD CLOSURES > 12 HOURS & < 2 WEEKS	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
ROAD CLOSURES < 12 HOURS	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

TYLERSVILLE ROAD, EAST OF THE SOUTHBOUND RAMPS

TYLERSVILLE ROAD, WEST OF THE NORTHBOUND RAMPS

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

DUST CONTROL

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

ITEM 616, WATER 5 M. GAL

MAINTENANCE OF TRAFFIC PAVEMENT MARKINGS

THE NATURE OF THE WORK TO BE CONDUCTED REQUIRES TEMPORARY PAVEMENT MARKINGS TO BE PLACED AFTER PAVEMENT PLANING AND ASPHALT COURSES ARE PLACED. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK:

- 614, WORK ZONE LANE LINE, CLASS III, 642 PAINT 0.308 MILES
- 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT 0.102 MILES
- 614, WORK ZONE EDGE LINE, CLASS III, 642 PAINT 0.205 MILES
- 614, WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT 948 FEET
- 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 94 FEET

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO OFFICE OF COMMUNICATIONS
RAMP & ROAD CLOSURES	>= 2 WEEKS > 12 HOURS & < 2 WEEKS < 12 HOURS	21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE 2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

- DISTRICT PUBLIC INFORMATION OFFICER BY EMAIL AT DOT.D08.PIO@DOT.OHIO.GOV
- DISTRICT PERMIT SECTION BY EMAIL AT D08.PERMITS@DOT.OHIO.GOV
- CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV
- DISTRICT TRAFFIC, DETOUR SECTION BY EMAIL AT DOT.D08.DETOURS@DOT.OHIO.GOV
- BUTLER COUNTY BY PHONE AT (513) 867-5744

TEMPORARY PAVEMENT WEDGE

TEMPORARY PAVEMENT WEDGES SHALL BE PROVIDED AT ALL TIMES WHERE TRAFFIC IS REQUIRED TO TRAVEL FROM OR ONTO A PAVEMENT SURFACE OF A DIFFERENT ELEVATION, AROUND MANHOLES, AT CATCH BASINS, ETC. THE MINIMUM SLOPE OF THE TEMPORARY PAVEMENT WEDGE SHALL BE 3:1 ALONG LONGITUDINAL JOINTS AND 120:1 AT TRANSVERSE JOINTS. THESE WEDGES SHALL BE REMOVED PRIOR TO PLACING THE SPECIFIED PAVEMENT COURSE. PAYMENT FOR ALL WORK, MATERIALS, ETC. ASSOCIATED WITH THIS ITEM SHALL BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC LUMP SUM.

EXISTING AND TEMPORARY PAVEMENT MARKINGS

THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS FROM STA. 11+50 TO STA. 17+00. FOR ALL OTHER AREAS, THE CONTRACTOR SHALL USE WATER BLASTING OR USE AND MAINTAIN BLACK-OUT TAPE TO REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MOT PLANS. THE CONTRACTOR SHALL USE AND MAINTAIN 740.06 WORK ZONE PAVEMENT MARKINGS, TYPE I PER ODOT CMS.

PERMITTED LANE CLOSURE TIMES

SHORT TERM LANE CLOSURES ARE THOSE WHICH ARE PERMITTED BY THE PERMITTED LANE CLOSURE NOTE. THESE TIMES SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM THE DISTRICT 8 WORK ZONE TRAFFIC CONTROL MANAGER. SHORT TERM LANE CLOSURES SHALL ONLY BE IMPLEMENTED WHEN WORK IS BEING CONTINUOUSLY PERFORMED IN THE LANE. THE CLOSURE SHALL BE REMOVED AS SOON AS POSSIBLE AFTER WORK HAS STOPPED. PERMITTED LANE CLOSURES SHALL ONLY BE ALLOWED DURING THE TIMES SPECIFIED IN THE PERMITTED LANE CLOSURE TIMES AND UNAUTHORIZED LANE USE TABLE INCLUDED IN THESE PLANS. NO LANE OR SHOULDER CLOSURE SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED.

PERMITTED LANE CLOSURE TIMES & UNAUTHORIZED LANE USE												
LOCATION	DIRECTION	EX. NO. OF THRU LANES	1 LANE CLOSED		2 LANES CLOSED		3 LANES CLOSED		15 MINUTE SHORT DURATION COMPLETE CLOSURES	COMPLETE CLOSURE	TIME UNIT	DISINCENTIVE PER LANE PER TIME UNIT
			WEEKDAY	WEEKEND	WEEKDAY	WEEKEND	WEEKDAY	WEEKEND				
I-75*	BOTH	4	8 PM - 6 AM	9 PM - 9 AM	10 PM - 5 AM	11 PM TO 7 AM	12 AM - 5 AM	12 AM - 6 AM	12 AM - 4 AM	NONE	1 MINUTE	\$285
NB EXIT RAMP	NB	1	NONE	NONE	NONE	NONE			12 AM - 4 AM	NONE	1 MINUTE	\$285
		2 OR MORE	9 PM - 6 AM	9 PM - 6 AM	9 PM - 6 AM	9 PM - 6 AM						
SB EXIT RAMP	SB	1	NONE	NONE	NONE	NONE			12 AM - 4 AM	NONE	1 MINUTE	\$285
		2 OR MORE	9 PM - 6 AM	9 PM - 6 AM	9 PM - 6 AM	9 PM - 6 AM						
TYLERSVILLE ROAD	EB								12 AM - 4 AM	1 OCCURANCE FROM 8 PM SUNDAY TO 6 AM FRIDAY	1 MINUTE	\$90
	WB											

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SHEET NUM.								PART. 01/IMS/BR	ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	7	20	21	24	30									
ROADWAY															
							LS		201	11000	LS		CLEARING AND GRUBBING		
			472				472		202	38000	472	FT	GUARDRAIL REMOVED		
			385				385		606	15050	385	FT	GUARDRAIL, TYPE MGS		
			1				1		606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)		
			1				1		606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T		
			2				2		606	35000	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1		
			2				2		606	35100	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2		
					48		48		625	25500	48	FT	CONDUIT, 3", 725.04		
					930		930		625	25504	930	FT	CONDUIT, 3", 725.051		
PAVEMENT															
			935				935		254	01000	935	SY	PAVEMENT PLANING, ASPHALT CONCRETE		
			84				84		407	20000	84	GAL	NON-TRACKING TACK COAT		
			26				26		441	50000	26	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		
			33				33		609	24000	33	FT	CURB, TYPE 4-A		
TRAFFIC CONTROL															
					58		58		621	00100	58	EACH	RPM		
65							65		621	54000	65	EACH	RAISED PAVEMENT MARKER REMOVED		
			14				14		626	00110	14	EACH	BARRIER REFLECTOR, TYPE 2 BIDIRECTIONAL		
					0.204		0.204		645	00116	0.204	MILE	EDGE LINE, 6", TYPE A3		
					0.307		0.307		645	00216	0.307	MILE	LANE LINE, 6", TYPE A3		
					0.101		0.101		645	00310	0.101	MILE	CENTER LINE, TYPE A3		
					948		948		645	00416	948	FT	CHANNELIZING LINE, 12", TYPE A3		
					94		94		646	10400	94	FT	STOP LINE		
					15		15		646	20300	15	EACH	LANE ARROW		
STRUCTURE REPAIR (BUT-75-0535)															
					LS		LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	3/25	
					20,231		20,231		509	10001	20,231	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	17/25	
					2,340		2,340		510	10001	2,340	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	3/25	
					135		135		511	53014	135	CY	CLASS QC3 CONCRETE, MISC.: SUPERSTRUCTURE WITH QC/QA. AS PER PLAN	3/25	
					1,282		1,282		512	10100	1,282	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
					918		918		512	10600	918	FT	CONCRETE REPAIR BY EPOXY INJECTION		
					466		466		512	74001	466	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN	3/25	
					360		360		514	00050	360	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
					360		360		514	00056	360	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT		
					360		360		514	00060	360	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
					360		360		514	00066	360	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
					2		2		514	10000	2	EACH	FINAL INSPECTION REPAIR		
					208		208		516	11211	208	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	3/25	
					171		171		519	11101	171	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	3/25	
					20		20		SPECIAL	51911600	20	SF	PATCHING CONCRETE STRUCTURE (DECK EDGES)	3/25	
					3,137		3,137		SPECIAL	53013000	3,137	SF	FORM LINER	4/25	
					820		820		607	39994	820	FT	TEMPORARY VANDAL FENCE, TYPE B		
					1,135		1,135		848	10201	1,135	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2 1/4" THICK)	3/25	
					3,149		3,149		848	10201	3,149	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2 1/4" THICK) (ACCELERATED CLOSURE)	3/25	
					138		138		848	10201	138	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (THICKNESS VARIES)	3/25	

GENERAL SUMMARY

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SHEET NUM.							PART.	ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	SEC	CHECKED	YSY
4	5	7	20	21	24	30	01/MS/BR	(X)		EXT	TOTAL							
						381			848	10201	381	SY	STRUCTURE REPAIR (BUT-75-0535) CONTINUED	3/25				
						4,803			848	20000	4,803	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (THICKNESS VARIES) (ACCELERATED CLOSURE)					
						60			848	30200	60	CY	SURFACE PREPARATION USING HYDRODEMOLITION					
						108			848	50000	108	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY					
						LS			848	50100	LS		HAND CHIPPING					
													TEST SLAB					
						820		X	607	39900	820	FT	MISCELLANEOUS STRUCTURE ALTERNATES					
						810		X	SPECIAL	60740000	810	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC (ALTERNATE BID 1)					
													VANDAL PROTECTION FENCE (ALTERNATE BID 2)	4/25				
													MAINTENANCE OF TRAFFIC					
		750				750			614	11110	750	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE					
				2		2			614	12350	2	EACH	WORK ZONE IMPACT ATTENUATOR					
						LS			614	12421	LS		DETOUR SIGNING, AS PER PLAN	16				
		22				22			614	13310	22	EACH	BARRIER REFLECTOR, TYPE 1 BI-DIRECTIONAL					
		22				22			614	13360	22	EACH	OBJECT MARKER, TWO WAY					
						LS			614	18002	LS		MAINTAINING TRAFFIC, MISC.: UTILITY MAINTENANCE	6				
				15		15			614	18601	15	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	7				
				0.098		0.098			614	20000	0.098	MILE	WORK ZONE LANE LINE, CLASS I, 4"					
	0.31					0.31			614	20560	0.31	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT					
				0.097		0.097			614	21000	0.097	MILE	WORK ZONE CENTER LINE, CLASS I					
						0.11			614	21550	0.11	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT					
	0.11					0.200			614	22000	0.200	MILE	WORK ZONE EDGE LINE, CLASS I, 4"					
				0.426		0.426			614	22200	0.426	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I					
						0.21			614	22360	0.21	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT					
	0.21					925			614	23000	925	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"					
						416			614	23400	416	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I					
	948					948			614	23690	948	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT					
						66			614	26000	66	FT	WORK ZONE STOP LINE, CLASS I					
						94			614	26610	94	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT					
						4			614	30000	4	EACH	WORK ZONE ARROW, CLASS I					
						5			616	10000	5	MGAL	WATER					
						150			622	41000	150	FT	PORTABLE BARRIER, 32"					
						950			622	41020	950	FT	PORTABLE BARRIER, 32", BRIDGE MOUNTED					
													INCIDENTALS					
						LS			614	11000	LS		MAINTAINING TRAFFIC					
						LS			623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING					
						LS			624	10000	LS		MOBILIZATION					

GENERAL SUMMARY

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REF NO.	SHEET NO.	STATION TO STATION					614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	
							PORTABLE CHANGEABLE MESSAGE SIGN	WORK ZONE LANE LINE, CLASS I, 4"	WORK ZONE CENTER LINE, CLASS I			WORK ZONE EDGE LINE, CLASS I, 4"	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I			WORK ZONE CHANNELIZING LINE, CLASS I, 8"	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I			WORK ZONE STOP LINE, CLASS I		WORK ZONE ARROW, CLASS I		WORK ZONE IMPACT ATTENUATOR		PORTABLE BARRIER, 32"	PORTABLE BARRIER, 32", BRIDGE MOUNTED										
						SNMT	MILE	MILE						FT	FT			FT		EACH	EACH	FT	FT														
SL-1	8	11+49	LT																																		
SL-2	8	11+74																																			
SL-3	9	16+85																																			
SL-4	9	16+93	RT																																		
CH-1	8-9	11+49	LT	16+30	LT													481																			
CH-2	8-9	11+74	LT	14+75	LT													301																			
CH-3	9	15+50	RT	16+93	RT													143																			
CH-4	13	26+14	LT	28+22	LT																																
CH-5	13	26+14	LT	28+22	LT																																
EL-1	8-9	11+49	LT	16+88	LT																																
EL-2	8-9	11+74	RT	16+93	RT					0.102																											
EL-3	9	21+00	LT	24+00	LT					0.098																											
EL-4	11	6+50	RT	9+50	RT						0.057																										
EL-5	12-13	18+00	LT	24+67	LT						0.057																										
EL-6	13	27+94	LT	31+50	LT						0.126																										
EL-7	14	36+75	LT	40+00	RT						0.067																										
EL-8	15	1+50	LT	4+50	LT						0.062																										
											0.057																										
CL-1	8-9	11+74	RT	16+85	LT							0.097																									
LL-1	8-9	11+74	RT	16+93	RT								0.098																								
AR-1	9	17+77	LT																																		
AR-2	9	18+43	LT																																		
AR-3	9	19+10	LT																																		
AR-4	9	19+76	LT																																		
MS-1	8																																				
MS-2	17																																				
PB-1	8-9	11+45	RT	16+93	RT																																
PB-2	8-9	11+49	LT	16+98	LT																																
TOTALS CARRIED TO GENERAL SUMMARY						15	0.098	0.097			0.200	0.426		925	416			66		4		2					150	950									

MAINTENANCE OF TRAFFIC SUBSUMMARY

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CALC: JML DATE: 5/2/2019
 CHECKED: SPB DATE: 5/7/2019

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					3/25
509	20231	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN			20231		17/25
510	2340	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN			2340		3/25
511	135	CY	CLASS QC3 CONCRETE, MISC.: SUPERSTRUCTURE WITH QC/QA. AS PER PLAN			135		3/25
512	1282	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	97	3	1122	60	
512	918	FT	CONCRETE REPAIR BY EPOXY INJECTION	63	855			
512	466	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN	97		369		3/25
514	360	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	360				
514	360	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	360				
514	360	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	360				
514	360	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	360				
514	2	EACH	FINAL INSPECTION REPAIR	2				
516	208	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN				208	3/25
519	171	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	124	17	30		3/25
SPECIAL	20	SF	PATCHING CONCRETE STRUCTURE (DECK EDGES)			20		3/25
SPECIAL	3137	SF	FORM LINER				3137	4/25
607	820	FT	TEMPORARY VANDAL FENCE, TYPE B			820		
848	1135	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2 1/4" THICK)			1135		3/25
848	138	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (THICKNESS VARIES)				138	3/25
848	3149	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2 1/4" THICK) (ACCELERATED CLOSURE)			3149		3/25
848	381	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (THICKNESS VARIES) (ACCELERATED CLOSURE)				381	3/25
848	4803	SY	SURFACE PREPARATION USING HYDRODEMOLITION			4284	519	
848	60	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				60	
848	108	SY	HAND CHIPPING				108	
848	LS		TEST SLAB					
ALTERNATE BID ITEMS								
607	820	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC (ALTERNATE BID 1)				820	
** SPECIAL	810	FT	VANDAL PROTECTION FENCE (ALTERNATE BID 2)				810	4/25

*NOTE: QUANTITIES SHOWN ARE CARRIED TO GENERAL SUMMARY.
 ** ANY CHANGE ORDERS NEEDED IN THE PERFORMANCE OF THIS ITEM WILL BE AT 100% THE COST OF THE LOCALS.

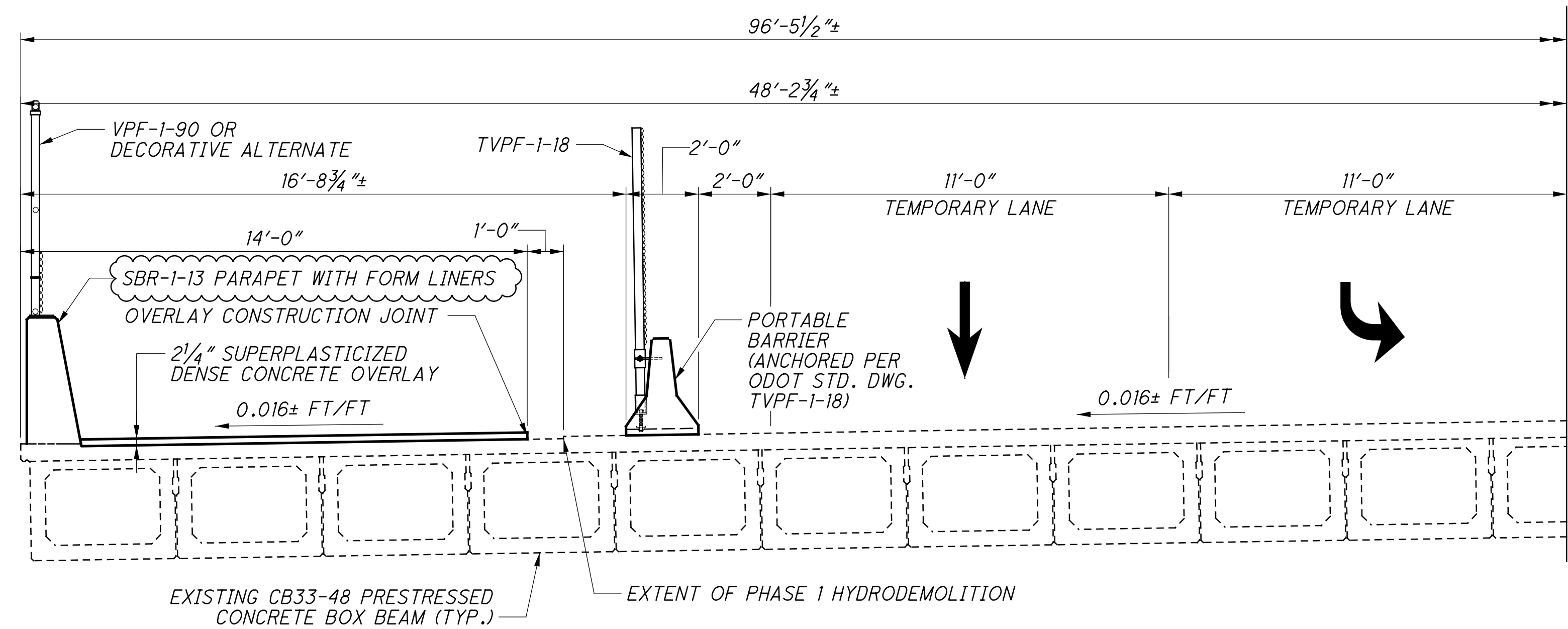


DESIGN AGENCY
 DATE: 8/28/19
 REVIEWED: MEB
 DRAWN: JML
 DESIGNED: JML
 CHECKED: SPB
 STRUCTURE FILE NUMBER: 0901733

ESTIMATED QUANTITIES
 BRIDGE NO. BUT-75-0535
 TYLERSVILLE ROAD OVER IR-75

BUT-IR75-5.35
 PID No. 100801

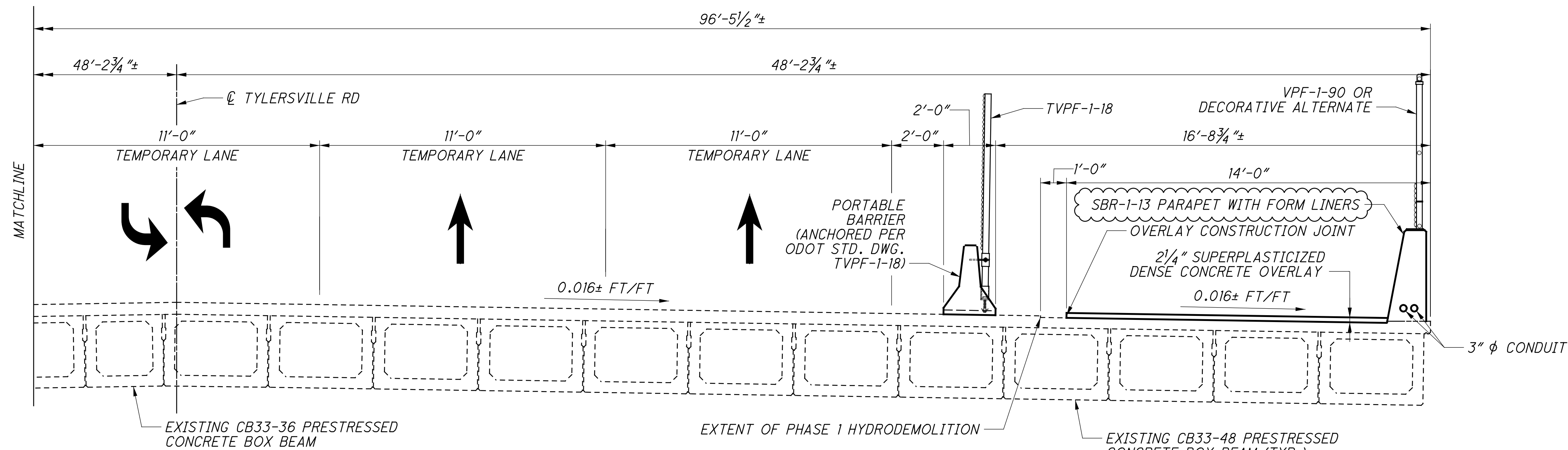
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PHASE 1 CONSTRUCTION

PHASE 1

- A) CLOSE THE OUTSIDE SHOULDERS AND OUTERMOST EASTBOUND AND WESTBOUND LANES.
- B) INSTALL PORTABLE CONCRETE BARRIERS AND TEMPORARY VANDAL PROTECTION FENCE.
- C) REMOVE 3/4" OF EXISTING DECK AND APPROACH SLABS TO THE EXTENT SHOWN USING HYDRODEMOLITION.
- D) REMOVE EXISTING VANDAL PROTECTION FENCE, EXISTING APPROACH SLAB CURBS AND EXISTING PARAPETS. MAINTAIN THE EXISTING SIGNAL CONTROL UTILITIES IN THE RIGHT PARAPET DURING CONSTRUCTION.
- E) INSTALL NEW STEEL PLATES AND LOW PROFILE RETAINERS AT THE EXPANSION JOINT LOCATIONS TO THE EXTENT SHOWN IN THE EXPANSION JOINT DETAILS.
- F) APPLY 2 1/4" SUPERPLASTICIZED DENSE CONCRETE OVERLAY TO THE EXTENT SHOWN. TAPER OVERLAY THICKNESS ALONG THE APPROACH SLABS.
- G) INSTALL NEW SINGLE SLOPE CONCRETE PARAPETS. ROUTE THE EXISTING SIGNAL CONTROL UTILITIES THROUGH THE NEW CONDUITS LOCATED IN THE RIGHT PARAPET.
- H) INSTALL NEW VANDAL PROTECTION FENCE OR ALTERNATE DECORATIVE FENCE.

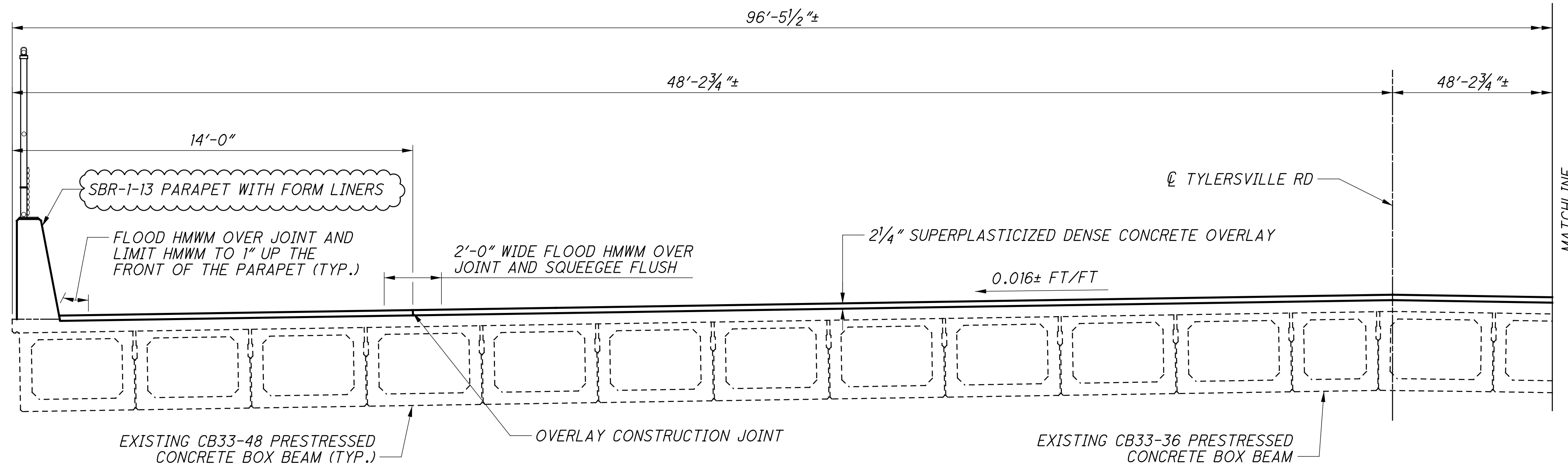


PHASE 1 CONSTRUCTION

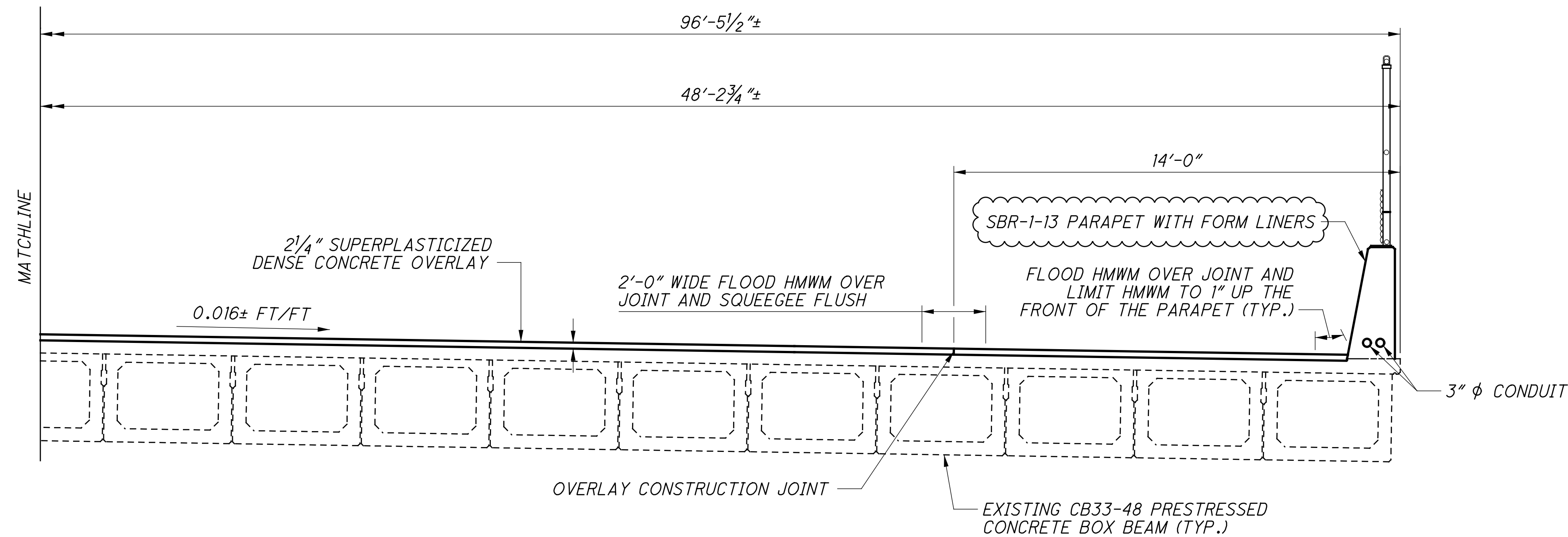
NOTES:

- 1. THE CONCEPTUAL CONSTRUCTION SEQUENCE SHOWN IS PROVIDED FOR INFORMATION AND IS NOT ALL-INCLUSIVE.
- 2. FOR REMOVAL DETAILS, SEE SHEET [6/25].
- 3. PORTABLE CONCRETE BARRIERS SHALL BE INCLUDED WITH THE ROADWAY QUANTITIES FOR PAYMENT.

 THE KLEINGERS GROUP
DESIGN AGENCY: THE KLEINGERS GROUP DATE: 8/28/19 REVIEWED: MEB DRAWN: JML DESIGNED: JML CHECKED: SPB
STRUCTURE FILE NUMBER: 0901733 BRIDGE NO.: BUT-75-0535 TYLERSVILLE ROAD OVER IR-75
STAGED CONSTRUCTION DETAILS (1 OF 2)
BUT-IR75-5.35 PID No. 100801
7 / 25 <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 32 50 </div>



PHASE 2 CONSTRUCTION



PHASE 2 CONSTRUCTION

PHASE 2

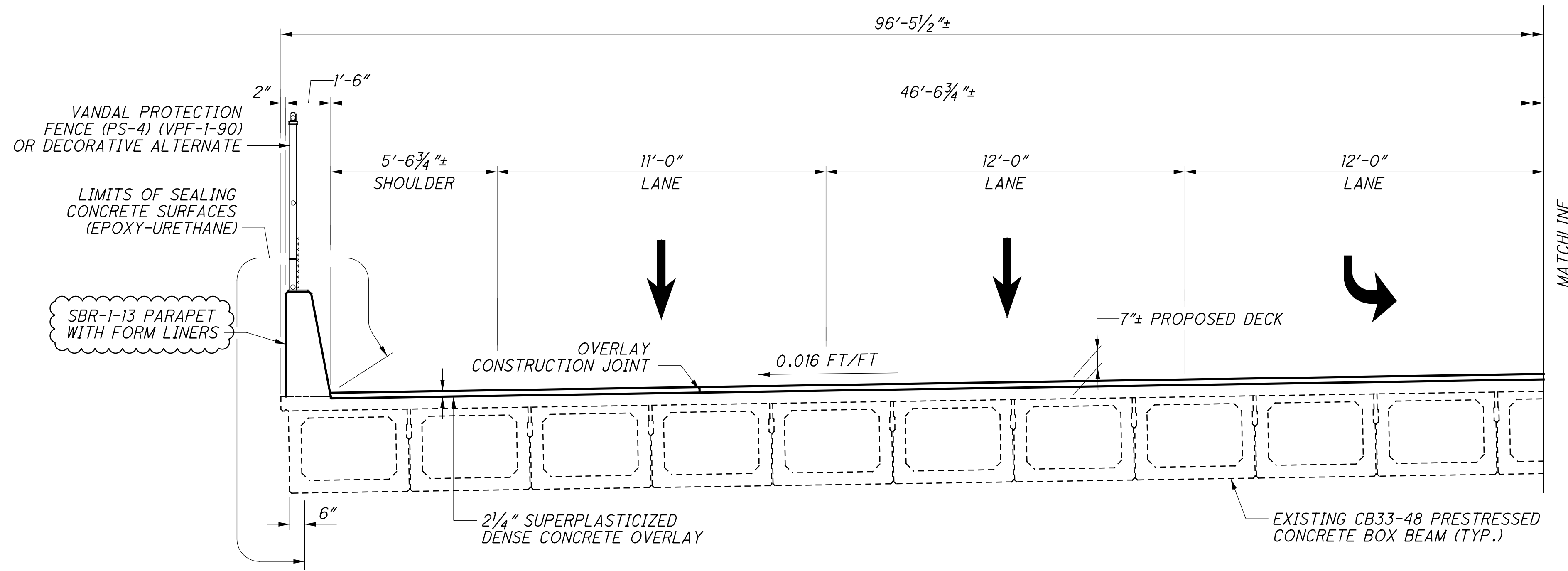
- A) CLOSE TYLERSVILLE ROAD, MAINTAINING EASTBOUND ACCESS TO THE SOUTHBOUND IR-75 ENTRANCE RAMP AND WESTBOUND ACCESS TO THE NORTHBOUND IR-75 ENTRANCE RAMP.
- B) DETOUR TRAFFIC.
- C) REMOVE PORTABLE CONCRETE BARRIERS AND TEMPORARY VANDAL PROTECTION FENCE.
- D) REMOVE 3/4" OF EXISTING DECK AND APPROACH SLABS ALONG THE REMAINING BRIDGE WIDTH USING HYDRODEMOLITION.
- E) INSTALL NEW STEEL PLATES AND LOW PROFILE RETAINERS AT THE EXPANSION JOINT LOCATIONS ALONG THE REMAINING BRIDGE WIDTH.
- F) APPLY 2 1/4" SUPERPLASTICIZED DENSE CONCRETE OVERLAY WITH ACCELERATED CLOSURE TO THE REMAINING BRIDGE WIDTH. TAPER OVERLAY THICKNESS ALONG THE APPROACH SLABS.
- G) TREAT LONGITUDINAL OVERLAY CONSTRUCTION JOINTS WITH HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM) SEALER TO THE EXTENT SHOWN. FLOOD THE JOINT AND SQUEEGEE FLUSH.
- H) INSTALL NEW STRIP SEAL GLANDS AT EACH EXPANSION JOINT LOCATION. GLANDS SHALL BE CONTINUOUS ACROSS THE ENTIRE BRIDGE WIDTH AND INSTALLED IN ONE PIECE.

NOTE:

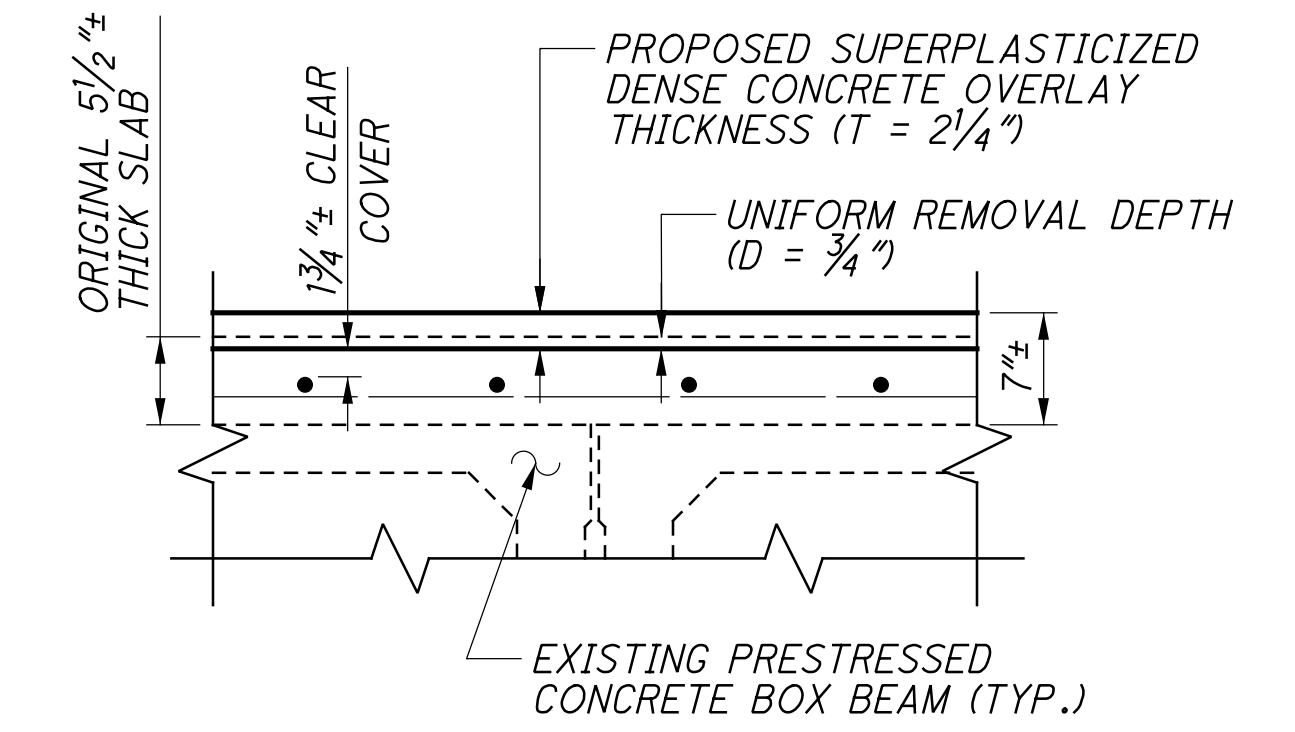
1. FOR ADDITIONAL NOTES, SEE SHEET 7/25.

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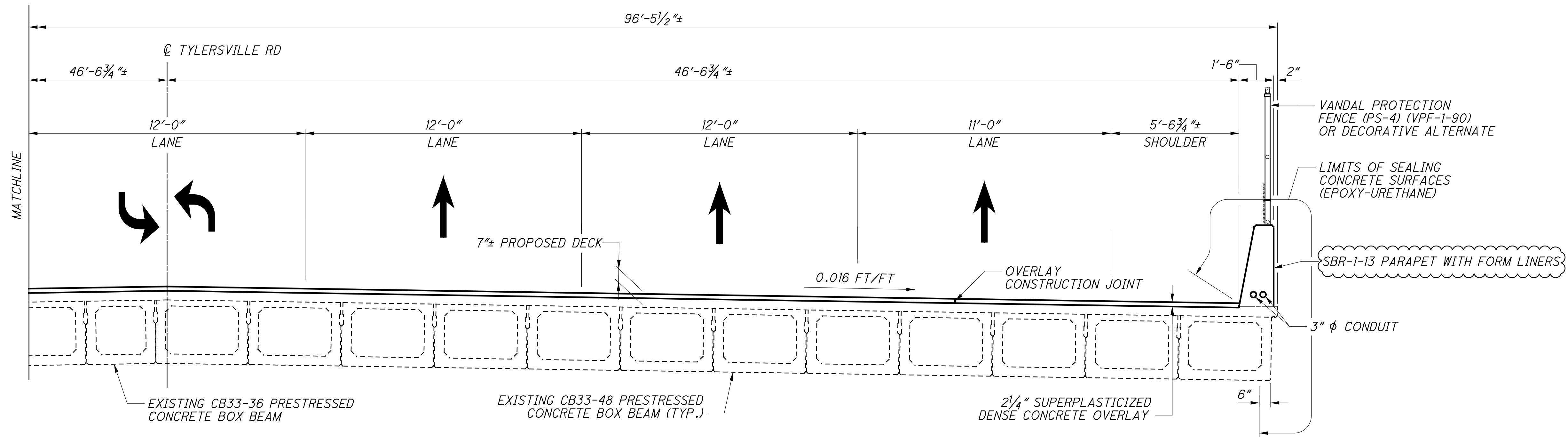
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PARTIAL TRANSVERSE SECTION



TYPICAL OVERLAY DETAIL

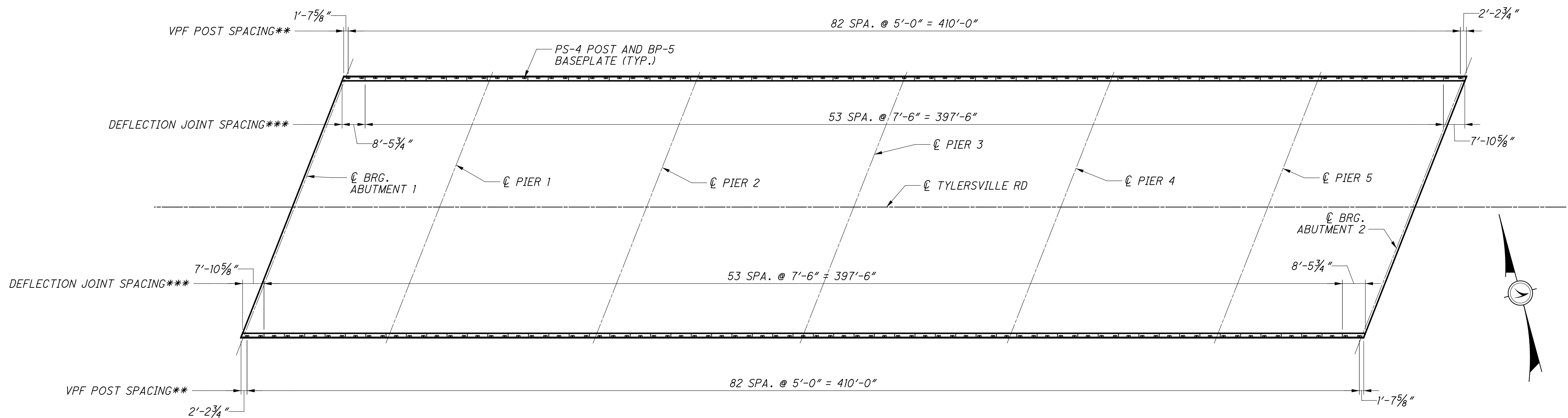


PARTIAL TRANSVERSE SECTION

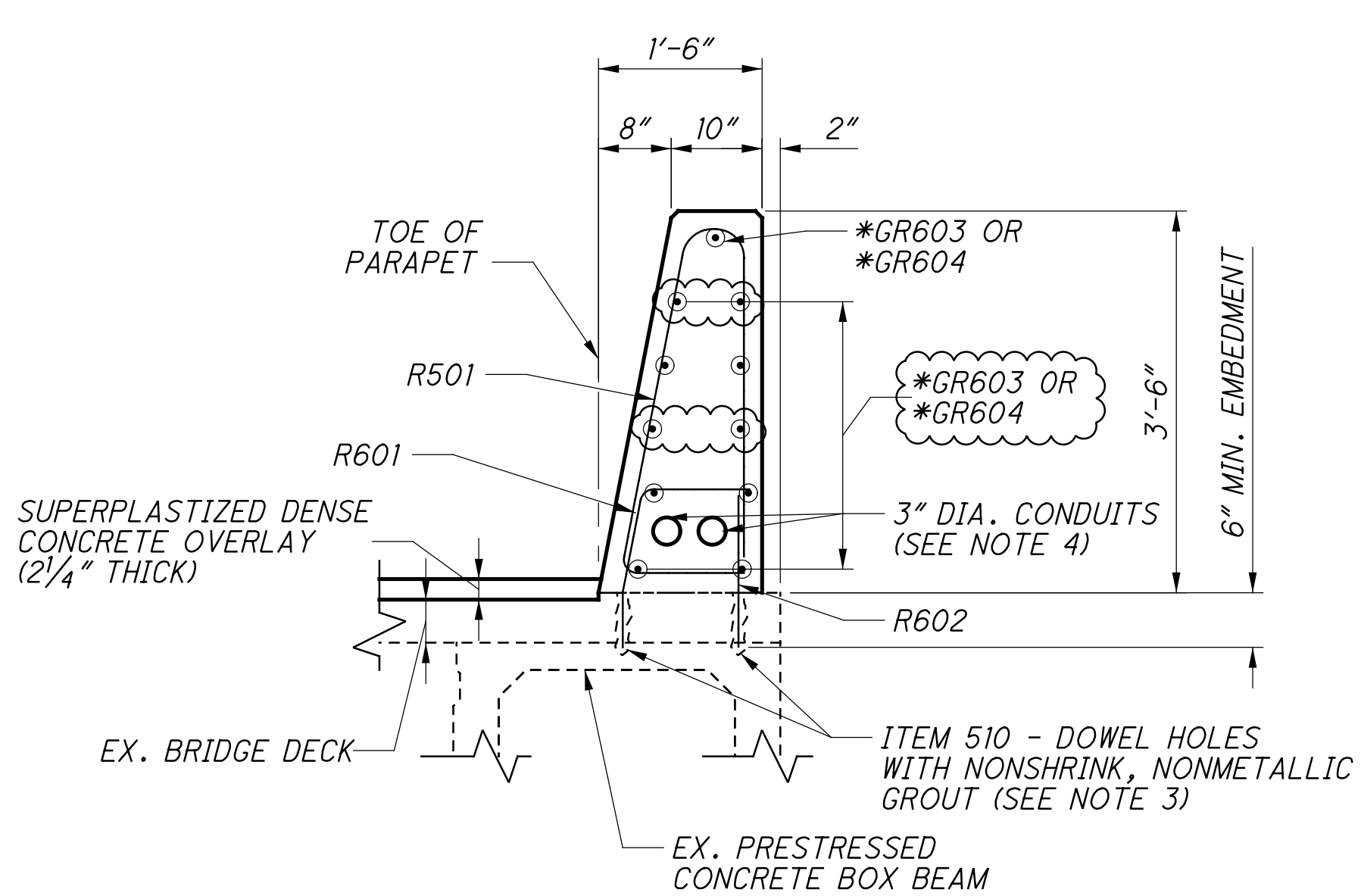
DESIGNED	JML	CHECKED	SPB
DRAWN	JML	REVISED	
REVIEWED	MEB	STRUCTURE FILE NUMBER	0901733
DATE	8/28/19		

TYPICAL SECTIONS
 BRIDGE NO. BUT-75-0535
 TYLERSVILLE ROAD OVER IR-75

BUT-IR75-5.35
 PID No. 100801

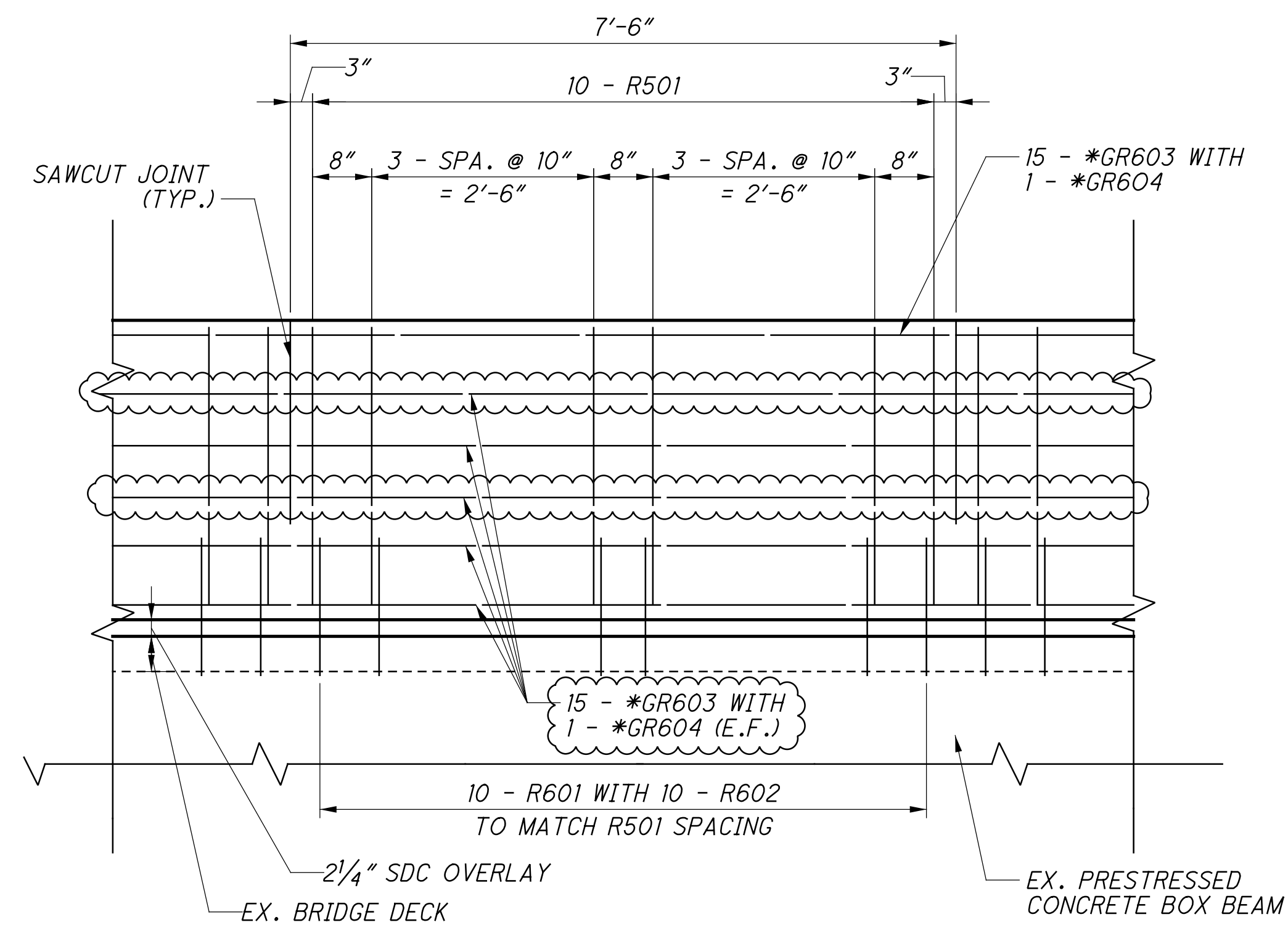


BRIDGE PARAPET PLAN

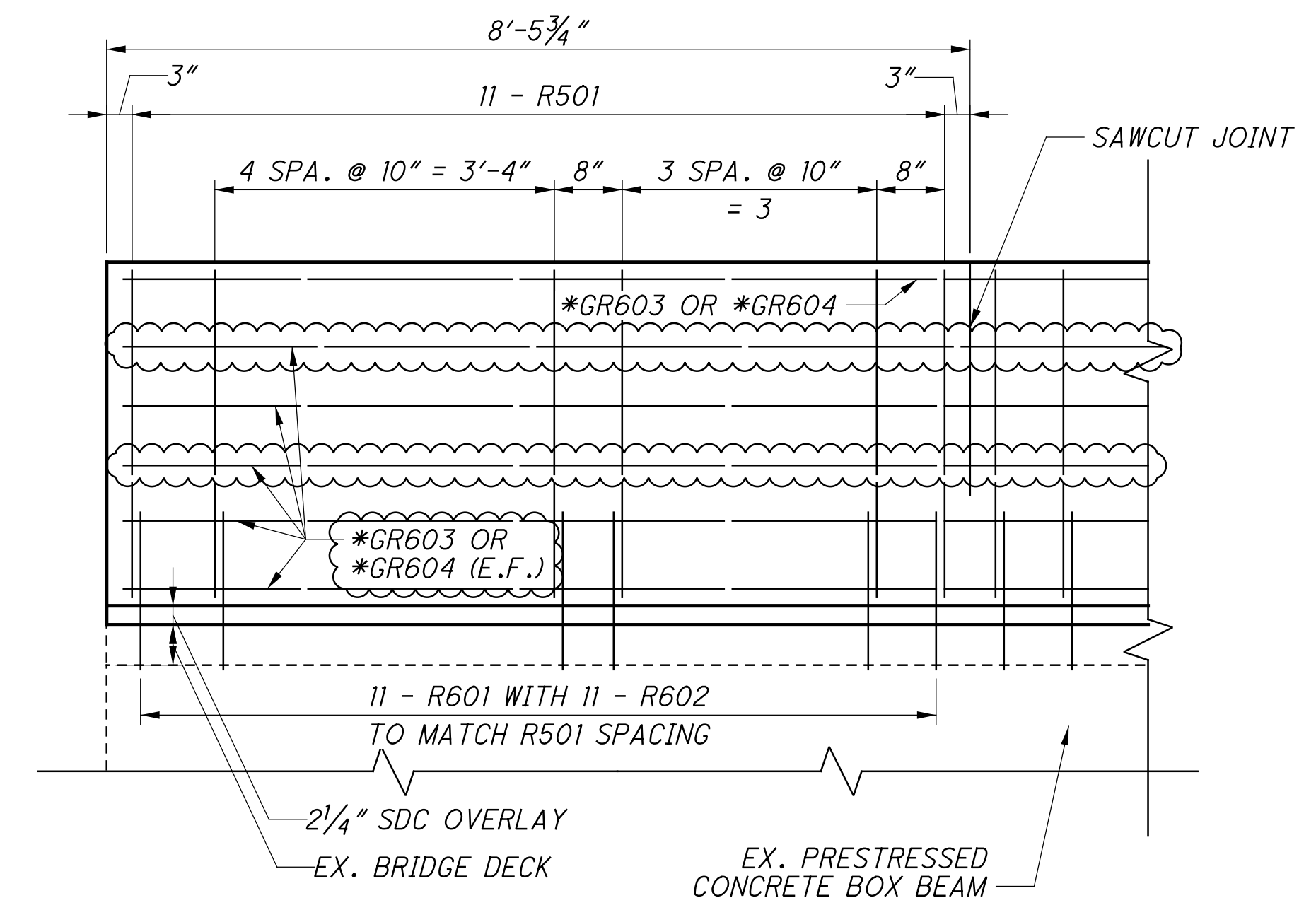


TYPICAL PARAPET SECTION

(RIGHT PARAPET SHOWN, LEFT PARAPET SIMILAR)



SBR-1-13 REINFORCING - 7'-6"



SBR-1-13 REINFORCING 7'-10 5/8" OR 8'-5 3/4" PANEL

(8'-5 3/4" PANEL SHOWN, 7'-10 5/8" PANEL SIMILAR, BUT OPPOSITE HAND)

(*) **(GR603 AND GR604)** LONGITUDINAL REBAR TO BE PLACED IN THE PARAPETS OF THIS STRUCTURE SHALL BE GLASS FIBER REINFORCED POLYMER REBAR (GFRP). THE CONTRACTOR SHALL REFER TO THE SPECIAL PROVISIONS WHICH PROVIDE THE SPECIFICATIONS FOR THE USE OF GFRP. VERTICAL REBAR SHALL BE STANDARD EPOXY COATED. PAYMENT FOR THE GFRP REBAR SHALL INCLUDE ALL MATERIALS, LABOR, EQUIPMENT AND ANY APPURTENANCES REQUIRED TO COMPLETE THE INSTALLATION OF THE REBAR AND SHALL BE PAID FOR UNDER ITEM 509 - REBAR, AS PER PLAN. SAW CUTTING AT THE TOP 2'-5" OF THE PARAPET MAY BE PERFORMED FULL WIDTH OF THE PARAPET RATHER THAN THE 4" DEPTH ALONG THE PERIMETER AS SHOWN ON STD. DWG. SBR-1-13.
 #5 GFRP REBAR => 5/8" DIAMETER, WEIGHT = 0.287 LB/FT
 #6 GFRP REBAR => 3/4" DIAMETER, WEIGHT = 0.408 LB/FT

(**) DIMENSIONS MEASURED ALONG OUTSIDE FACE OF PARAPET.

(***) DIMENSIONS MEASURED ALONG INSIDE FACE OF PARAPET.

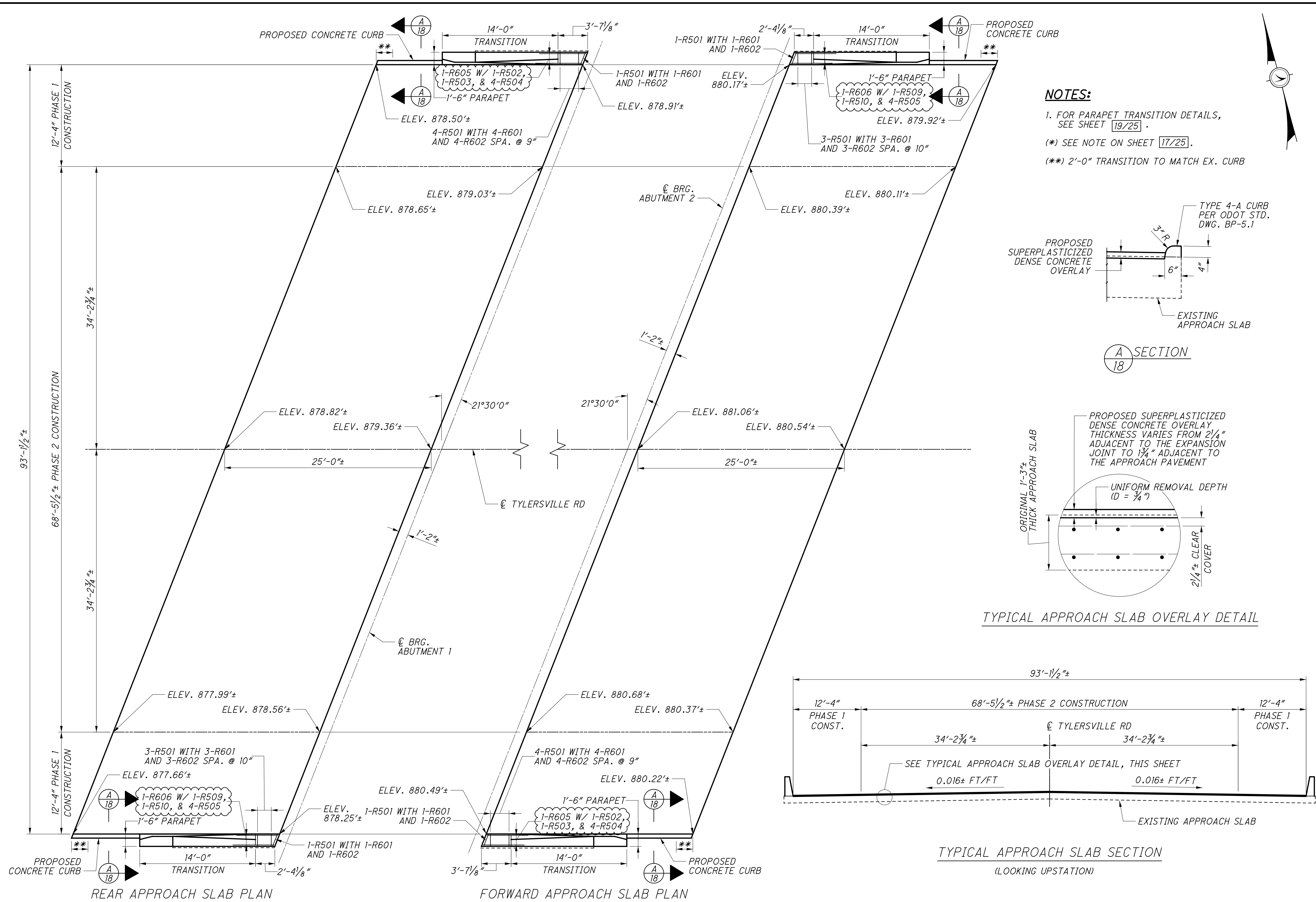
TYP. MINIMUM LAP LENGTHS (U.N.O.)	
#5 BARS	= 2'-6"
#6 BARS	= 3'-0"

NOTES:

- FOR ADDITIONAL PARAPET NOTES AND DETAILS, SEE ODOT STD. DWG. SBR-1-13.
- ALL PANEL ELEVATIONS ARE SHOWN LOOKING AT THE TRAFFIC SIDE FACE.
- GROUT SHALL BE EPOXY TYPE PER CMS 705.20.
- CONDUITS REQUIRED IN RIGHT PARAPET ONLY. MAINTAIN 2" MIN. CLEAR SPACING BETWEEN CONDUITS. THE CONDUITS AND ANY ASSOCIATED EXPANSION DEVICES ARE INCLUDED IN ROADWAY QUANTITIES FOR PAYMENT.
- FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES ON SHEETS 3/25 AND 4/25.
- FOR ADDITIONAL VANDAL PROTECTION FENCE NOTES AND DETAILS, SEE ODOT STD. DWG. VPF-1-90.

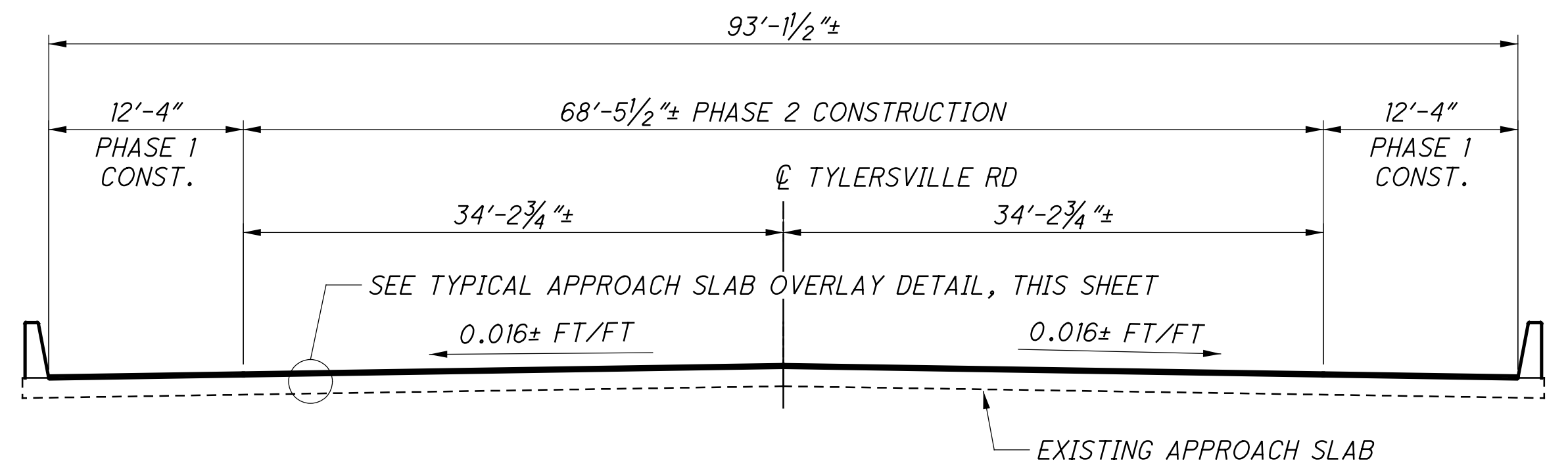
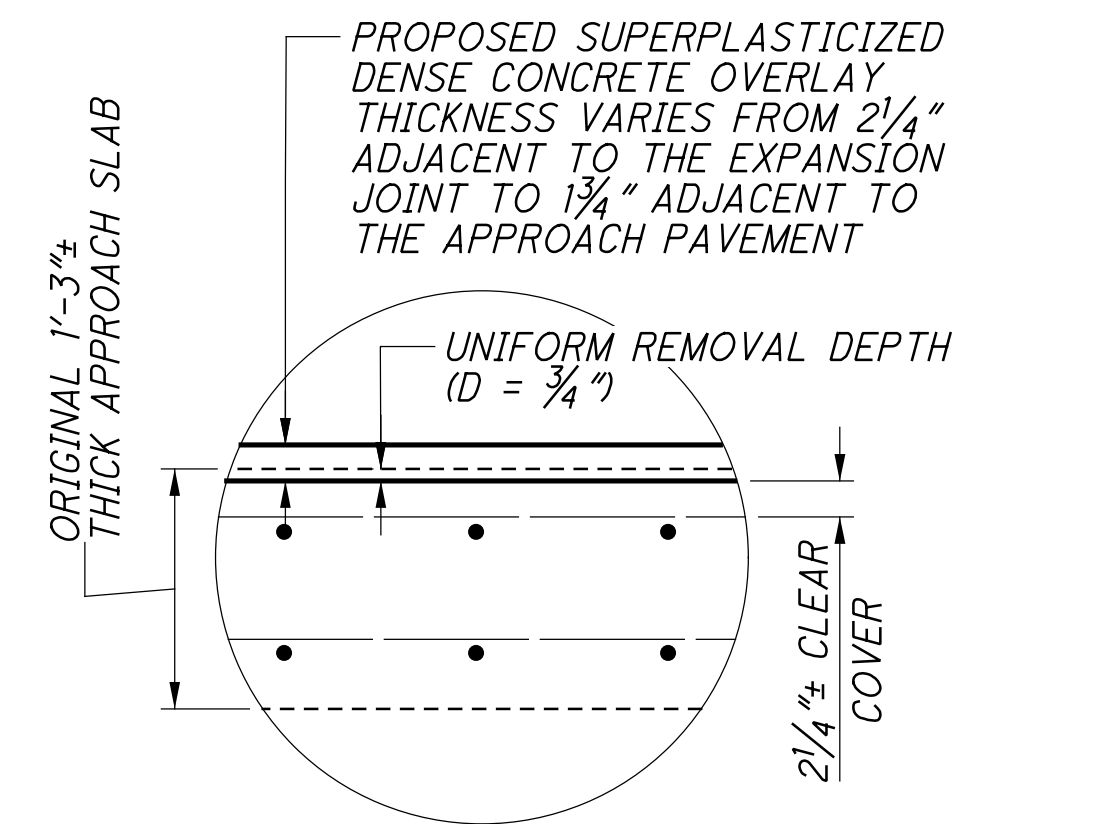
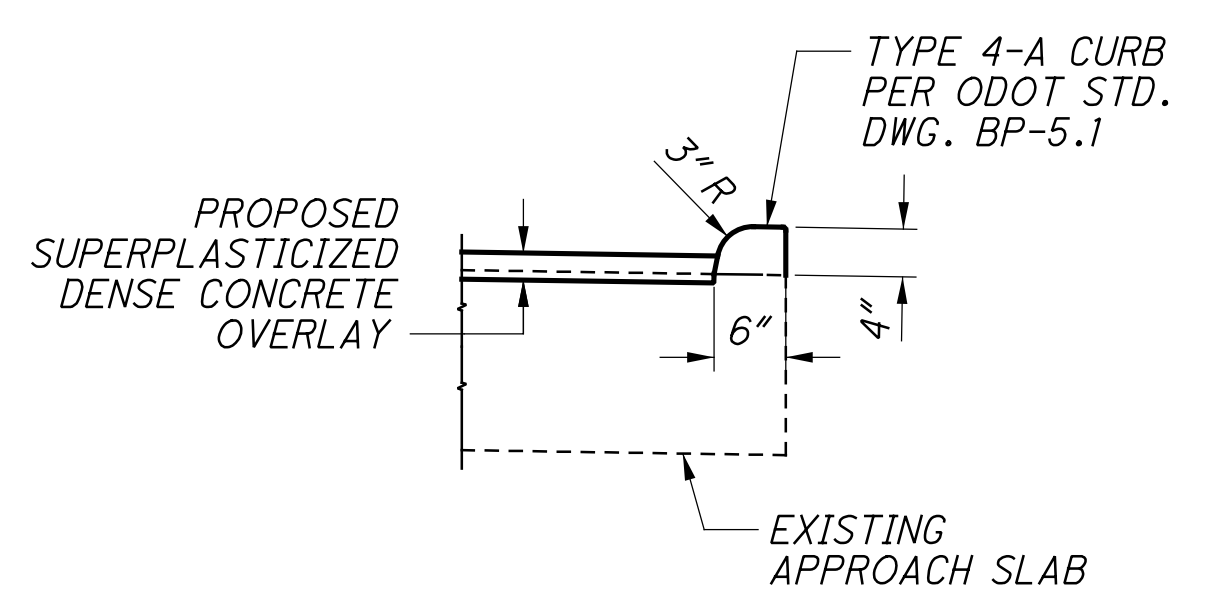
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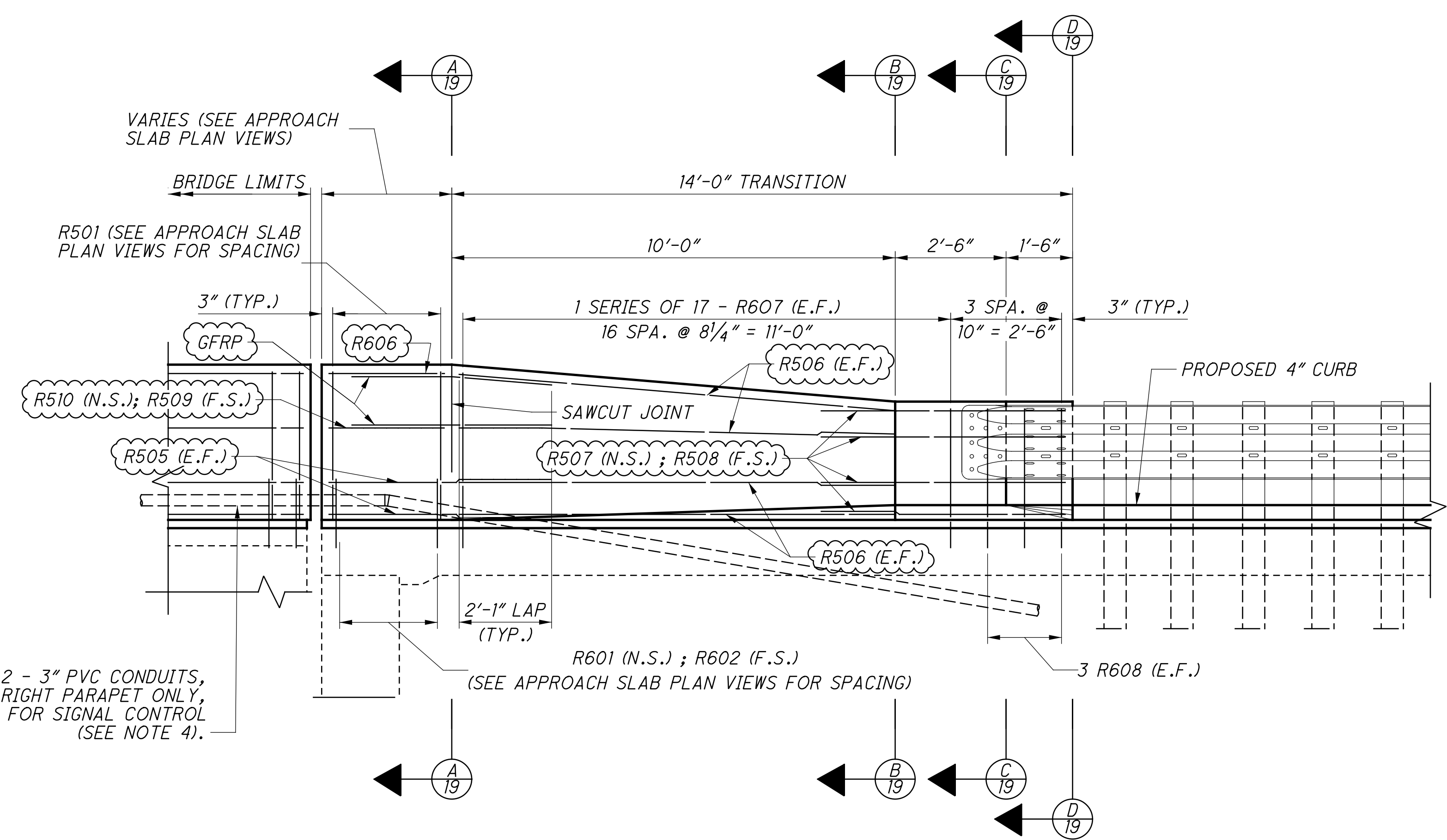


NOTES:

- FOR PARAPET TRANSITION DETAILS, SEE SHEET 19/25.
- (*) SEE NOTE ON SHEET 17/25.
- (**) 2'-0" TRANSITION TO MATCH EX. CURB



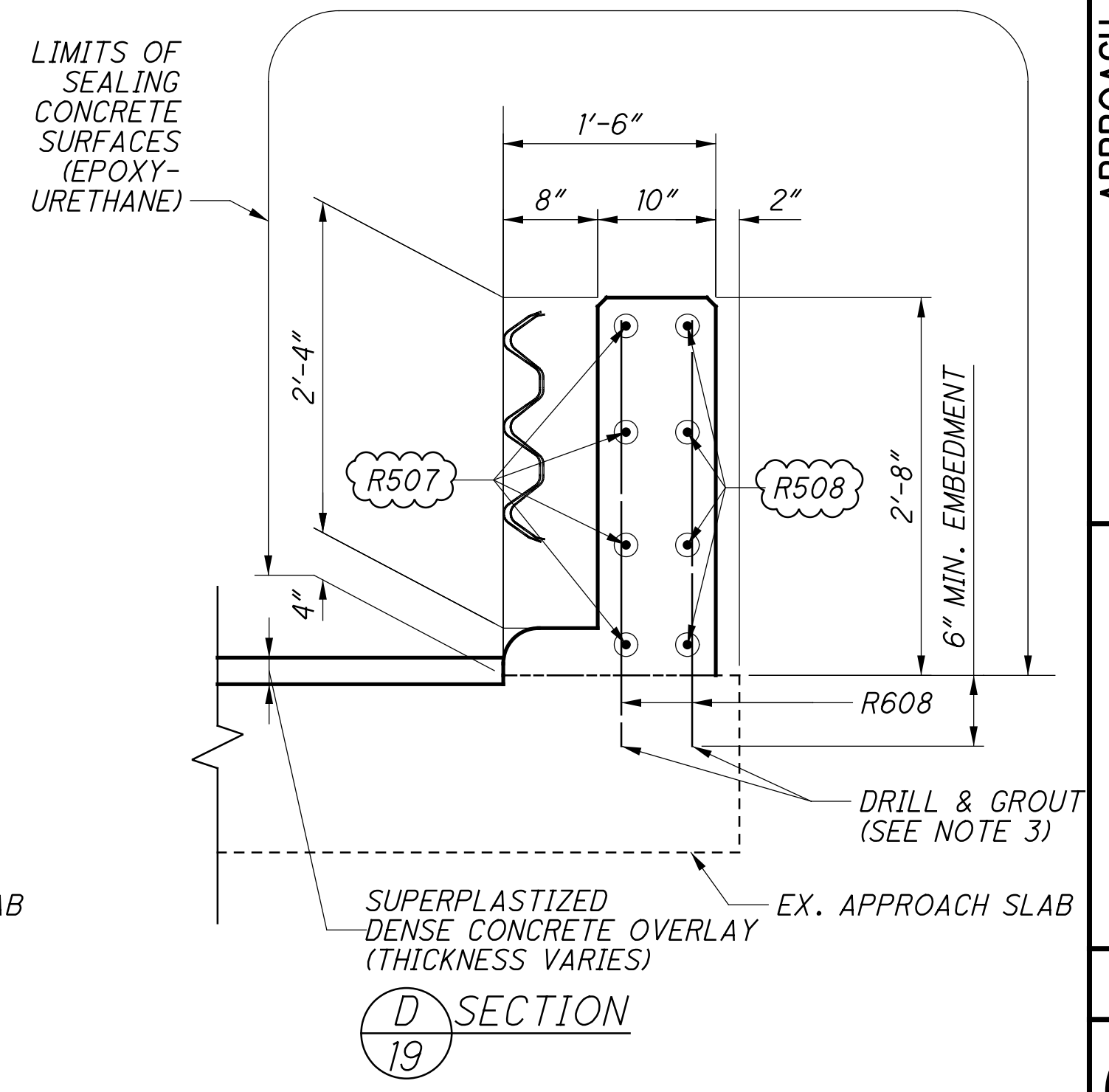
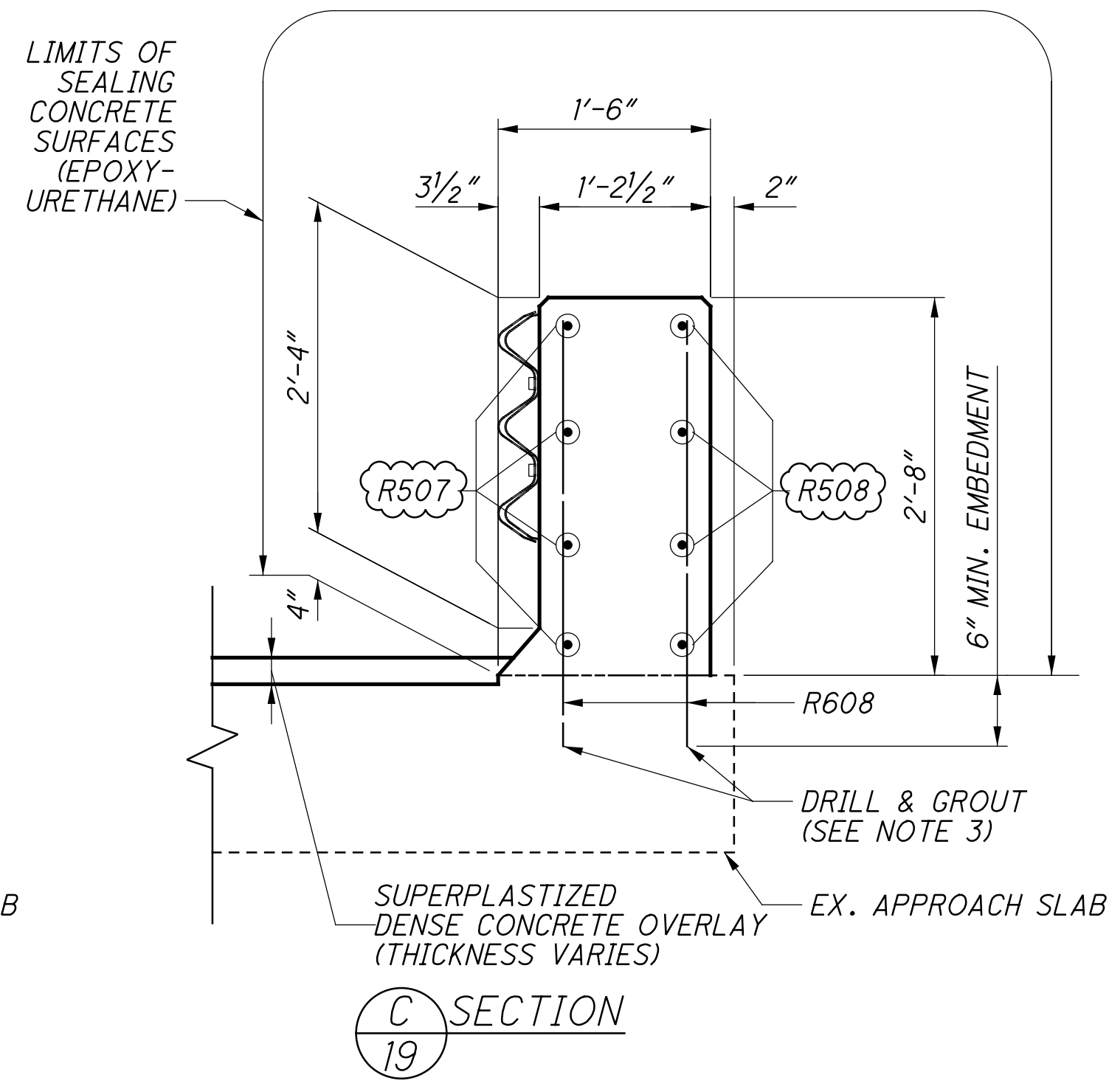
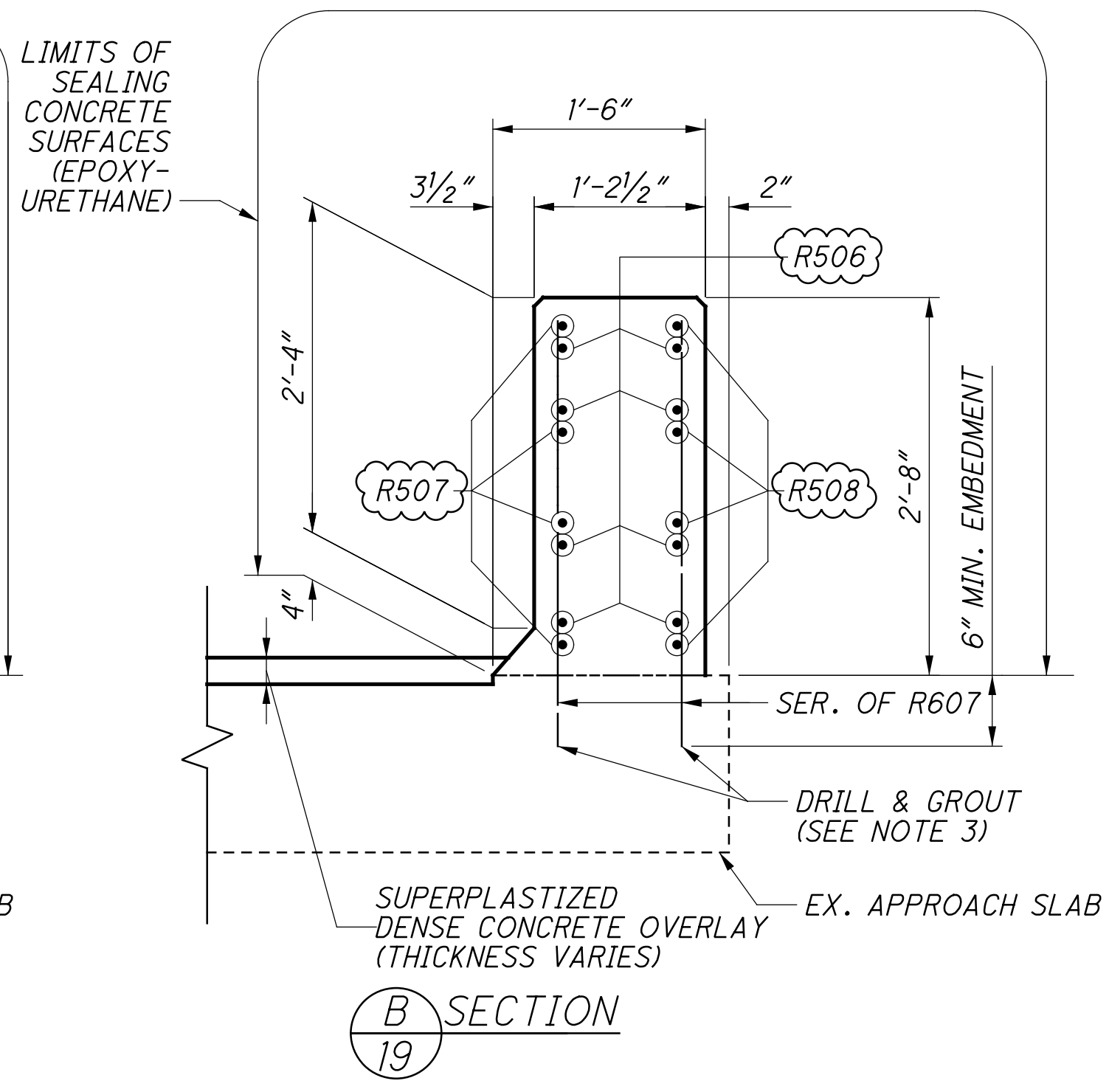
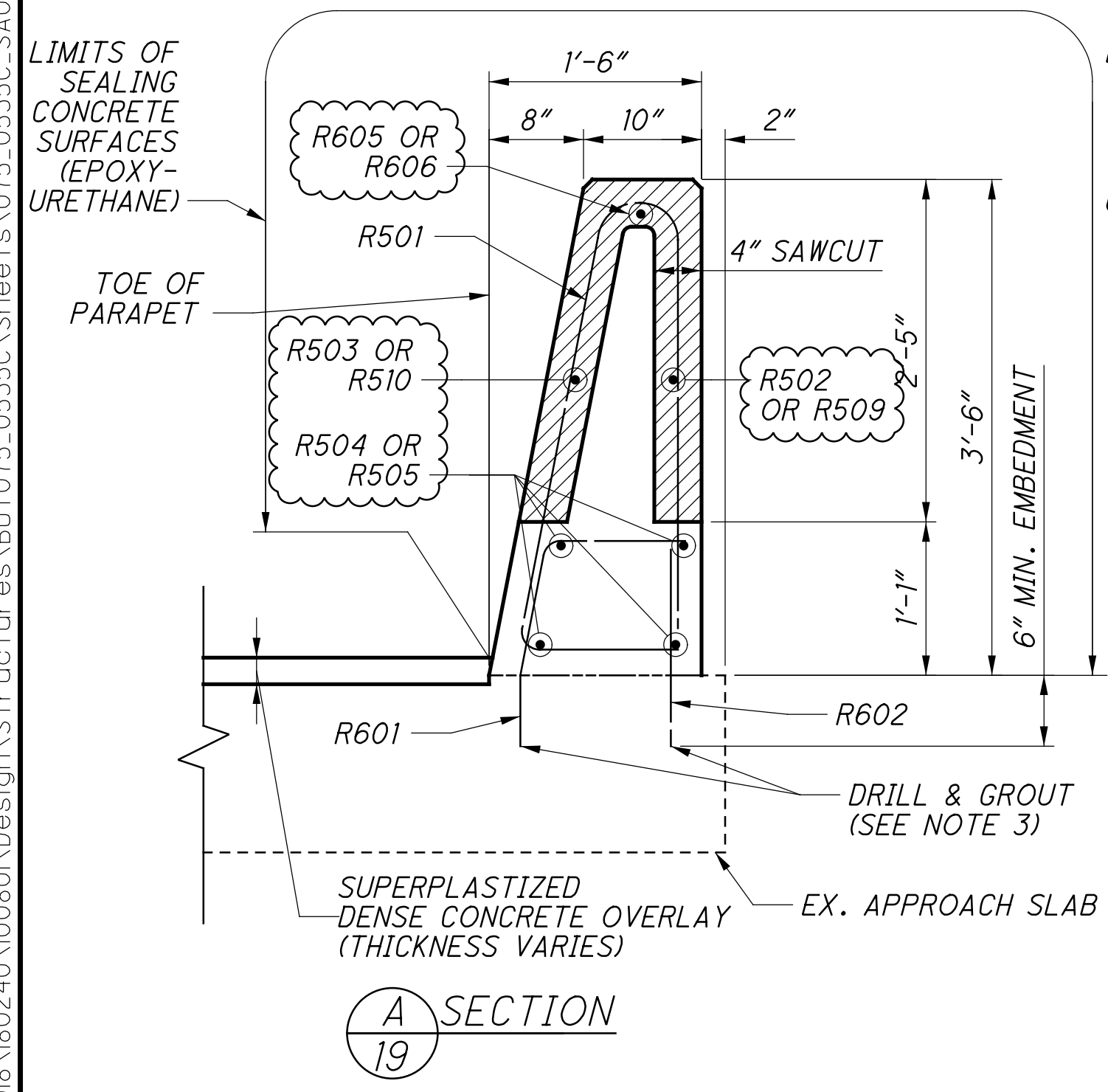
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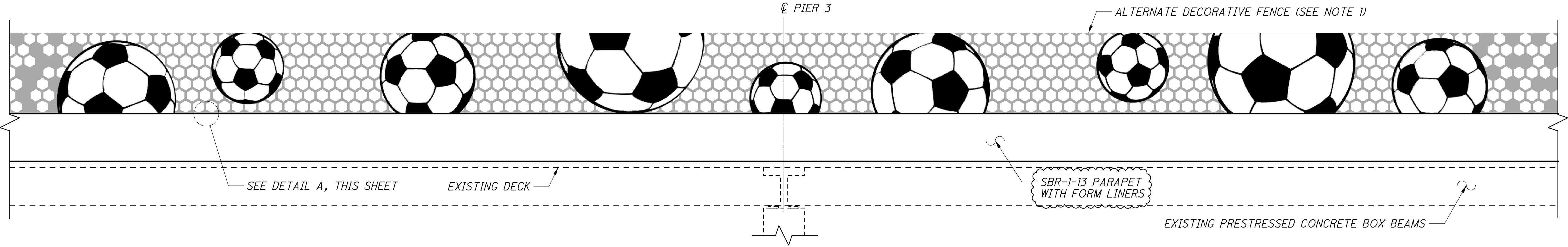


SBR-1-13 PARAPET ELEVATION
 (RIGHT REAR SHOWN, OTHERS SIMILAR)

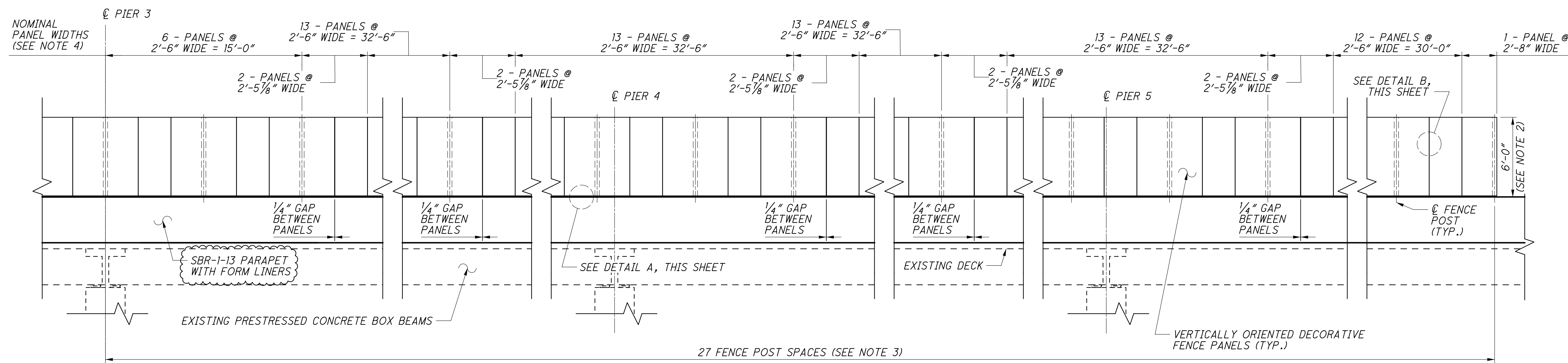
NOTES:

- FOR ADDITIONAL PARAPET NOTES AND DETAILS, SEE ODOT STD. DWG. SBR-1-13.
- ALL PANEL ELEVATIONS ARE SHOWN LOOKING AT THE TRAFFIC SIDE FACE.
- GROUT SHALL BE EXPOXY TYPE PER CMS 705.20.
- CONDUITS REQUIRED IN RIGHT PARAPET ONLY. MAINTAIN 2" MIN. CLEAR SPACING BETWEEN CONDUITS. THE CONDUITS AND ANY ASSOCIATED EXPANSION DEVICES ARE INCLUDED IN ROADWAY QUANTITIES FOR PAYMENT.
- FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES ON SHEETS 3/25 AND 4/25.

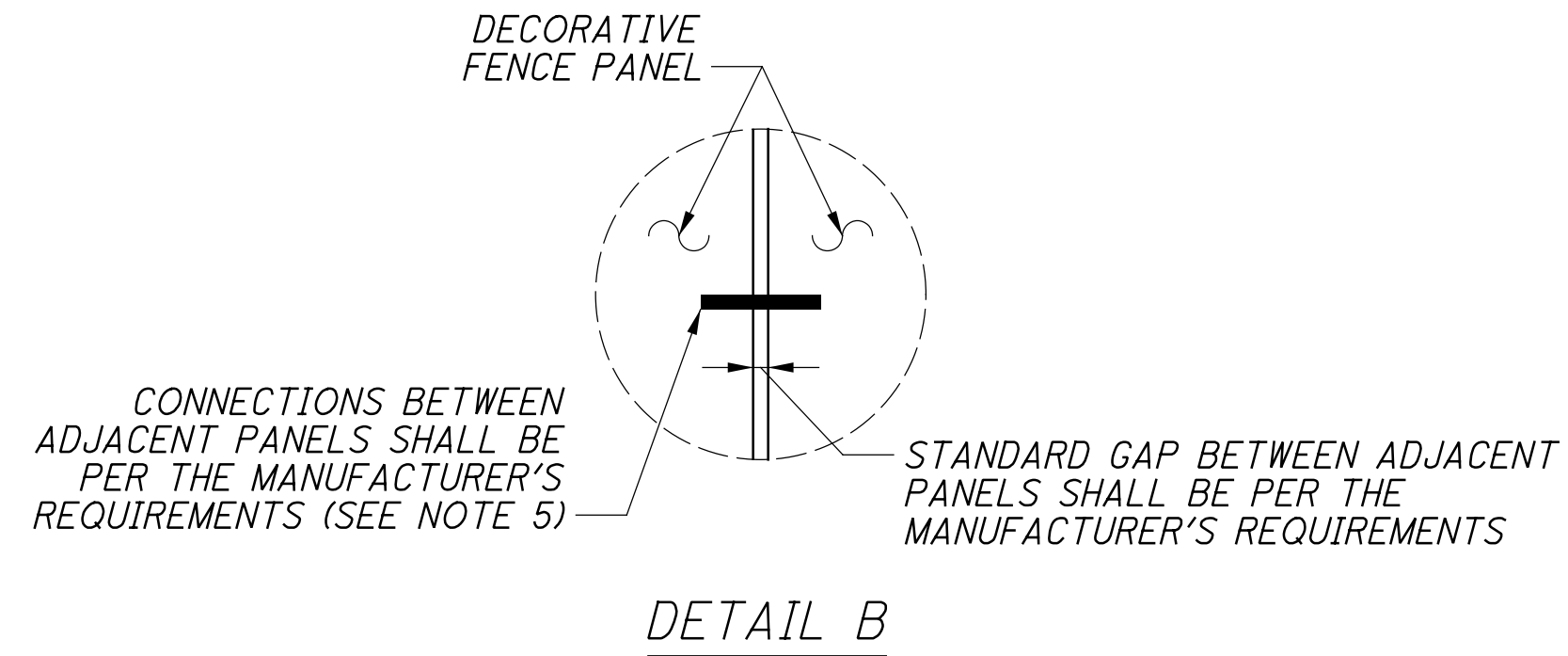
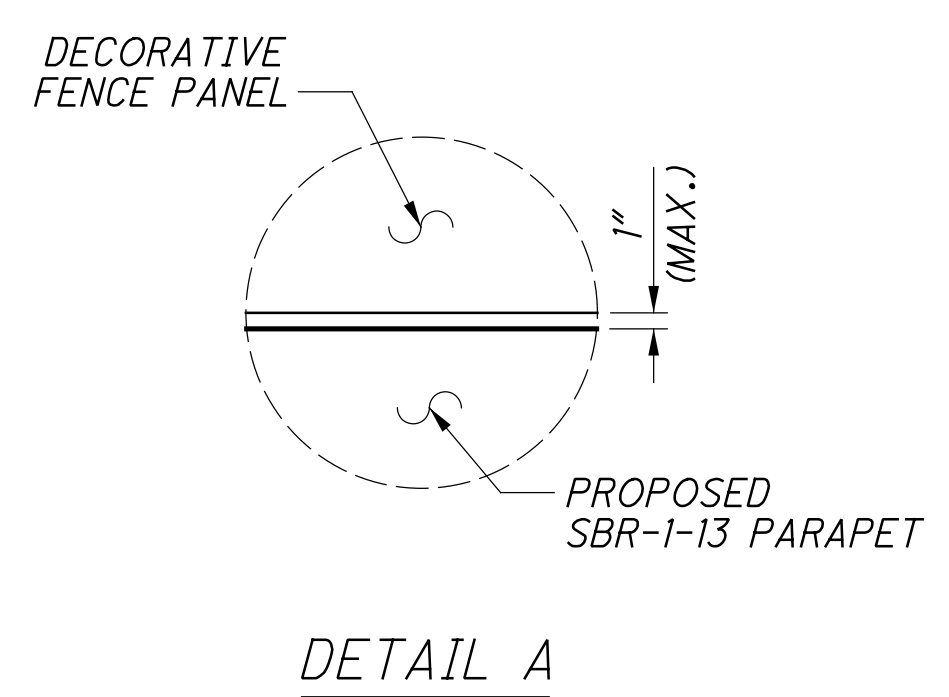




PARTIAL DECORATIVE FENCE ELEVATION
 (WITH DECORATIVE FENCE IMAGERY)
 (RIGHT PARAPET FENCE SHOWN, LEFT PARAPET FENCE SIMILAR)



PARTIAL DECORATIVE FENCE ELEVATION
 (DECORATIVE FENCE PANEL LAYOUT - PANEL IMAGERY NOT SHOWN)
 (RIGHT PARAPET FENCE SHOWN, LEFT PARAPET FENCE SIMILAR)

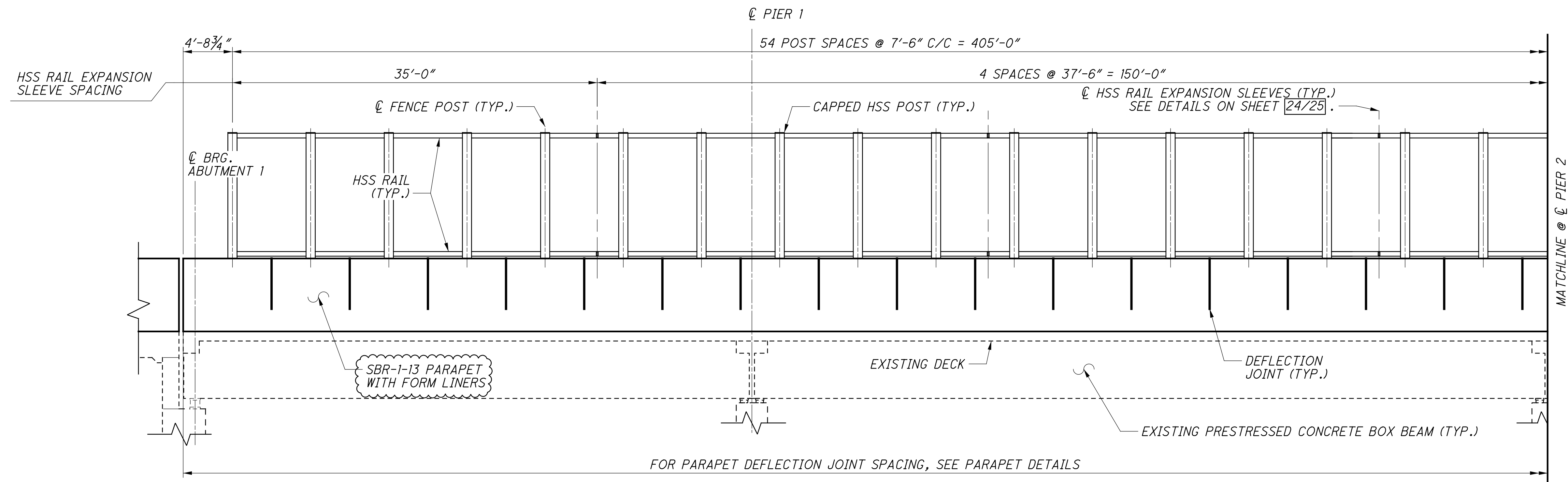


NOTES:

- DECORATIVE FENCE SHALL BE COMPRISED OF PERFORATED STAINLESS STEEL PANELS. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES ON SHEET 4/25.
- THE TOP OF THE DECORATIVE FENCE PANELS SHALL BE A UNIFORM HEIGHT OF 6'-0" ABOVE THE TOP OF THE PROPOSED PARAPET FOR THE ENTIRE LENGTH OF THE FENCE. FOR THE LONGITUDINAL GRADE OF THE BRIDGE, REFER TO THE BRIDGE SITE PLAN.
- FOR POST SPACING, SEE SHEETS 21/25 - 22/25.
- PANEL WIDTHS SHOWN ARE NOMINAL. EXACT WIDTH MAY VARY BASED ON THE MANUFACTURER'S REQUIRED STANDARD GAP BETWEEN ADJACENT PANELS.
- ANY CONNECTIONS BETWEEN ADJACENT PANELS WHERE A 1/4" GAP IS SPECIFIED IN THE PANEL LAYOUT ELEVATION ON THIS SHEET SHALL BE DESIGNED TO NOT RESTRICT THE MOVEMENT OF THE RAIL EXPANSION SLEEVE IN THE STRUCTURAL FRAMING.

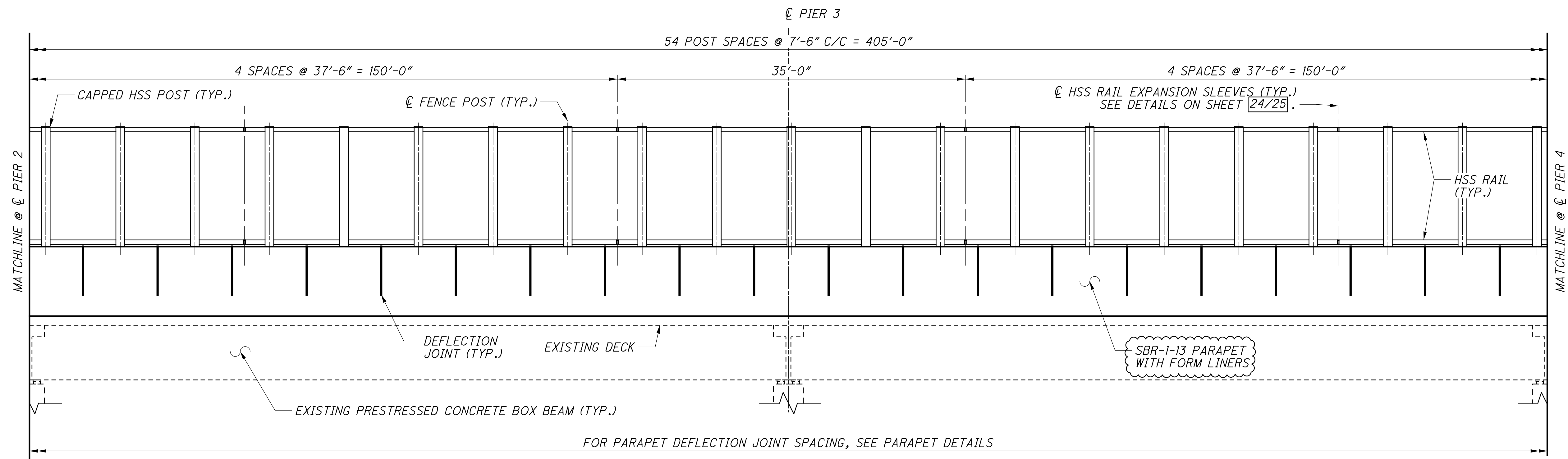
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PARTIAL DECORATIVE FENCE FRAMING ELEVATION

(DECORATIVE FENCE PANELS NOT SHOWN FOR CLARITY)
(RIGHT PARAPET FENCE SHOWN, LEFT PARAPET FENCE SIMILAR)



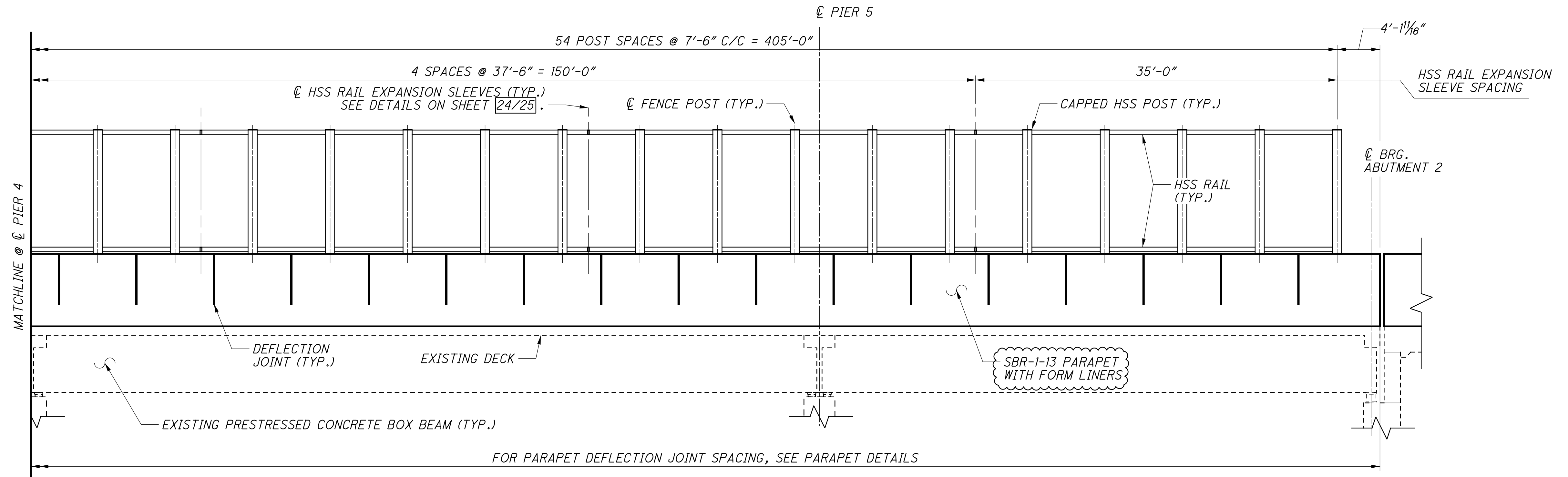
PARTIAL DECORATIVE FENCE FRAMING ELEVATION

(DECORATIVE FENCE PANELS NOT SHOWN FOR CLARITY)
(RIGHT PARAPET FENCE SHOWN, LEFT PARAPET FENCE SIMILAR)

NOTE:

- FOR STRUCTURAL FRAMING DETAILS, SEE SHEETS 23/25 - 24/25.

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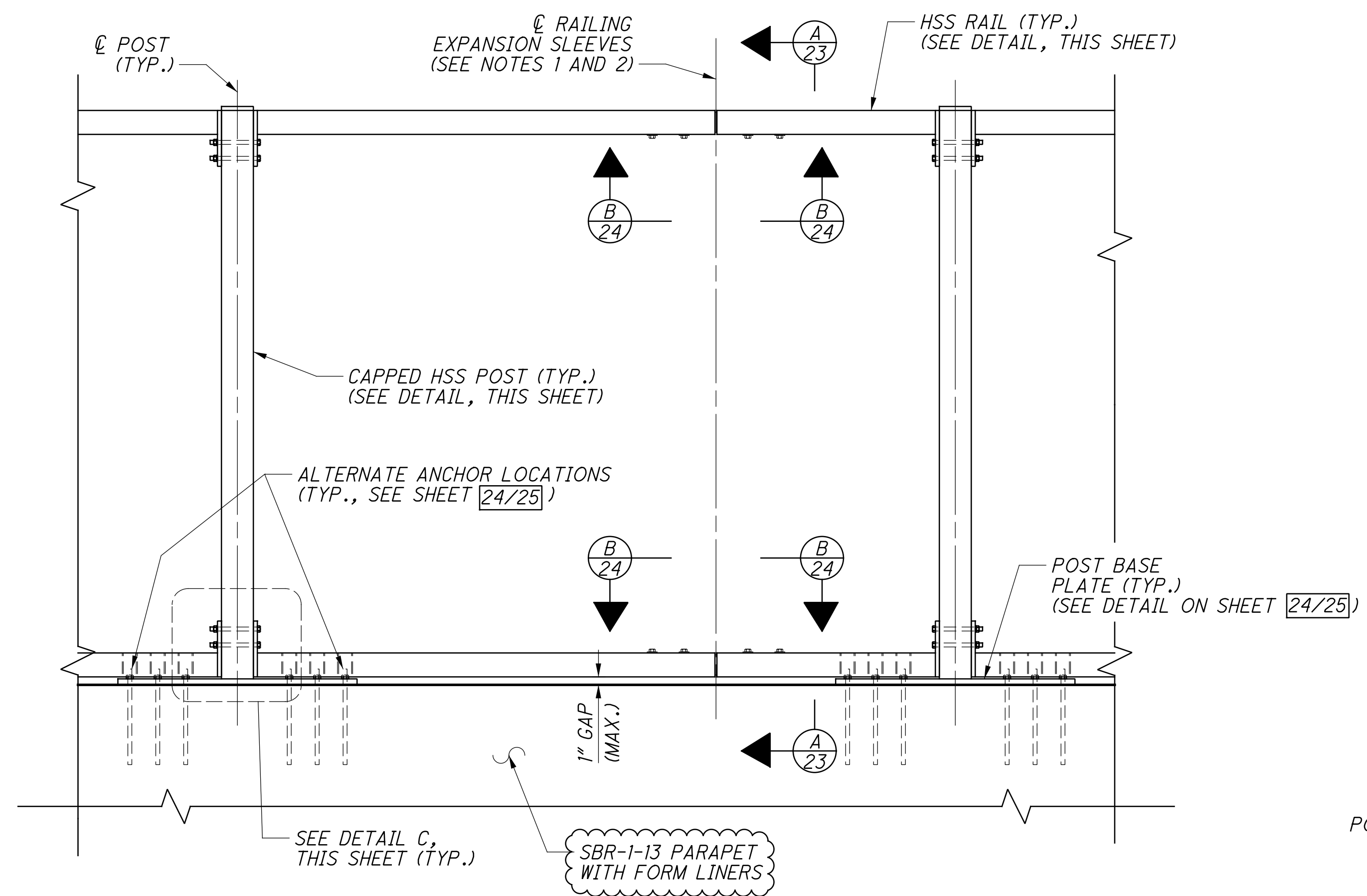
PARTIAL DECORATIVE FENCE FRAMING ELEVATION

(DECORATIVE FENCE PANELS NOT SHOWN FOR CLARITY)
(RIGHT PARAPET FENCE SHOWN, LEFT PARAPET FENCE SIMILAR)

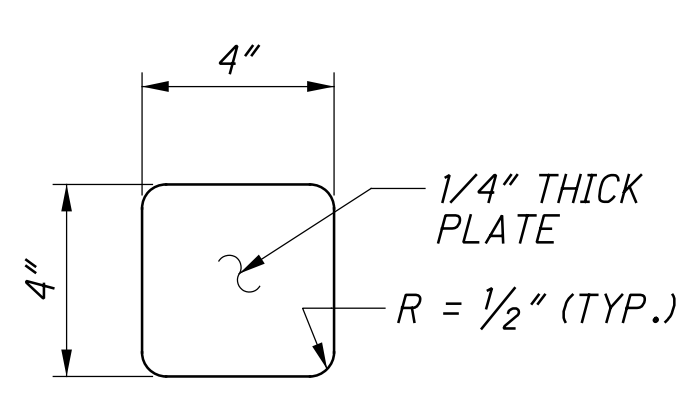
NOTE:

- FOR STRUCTURAL FRAMING DETAILS, SEE SHEETS 23/25 - 24/25.

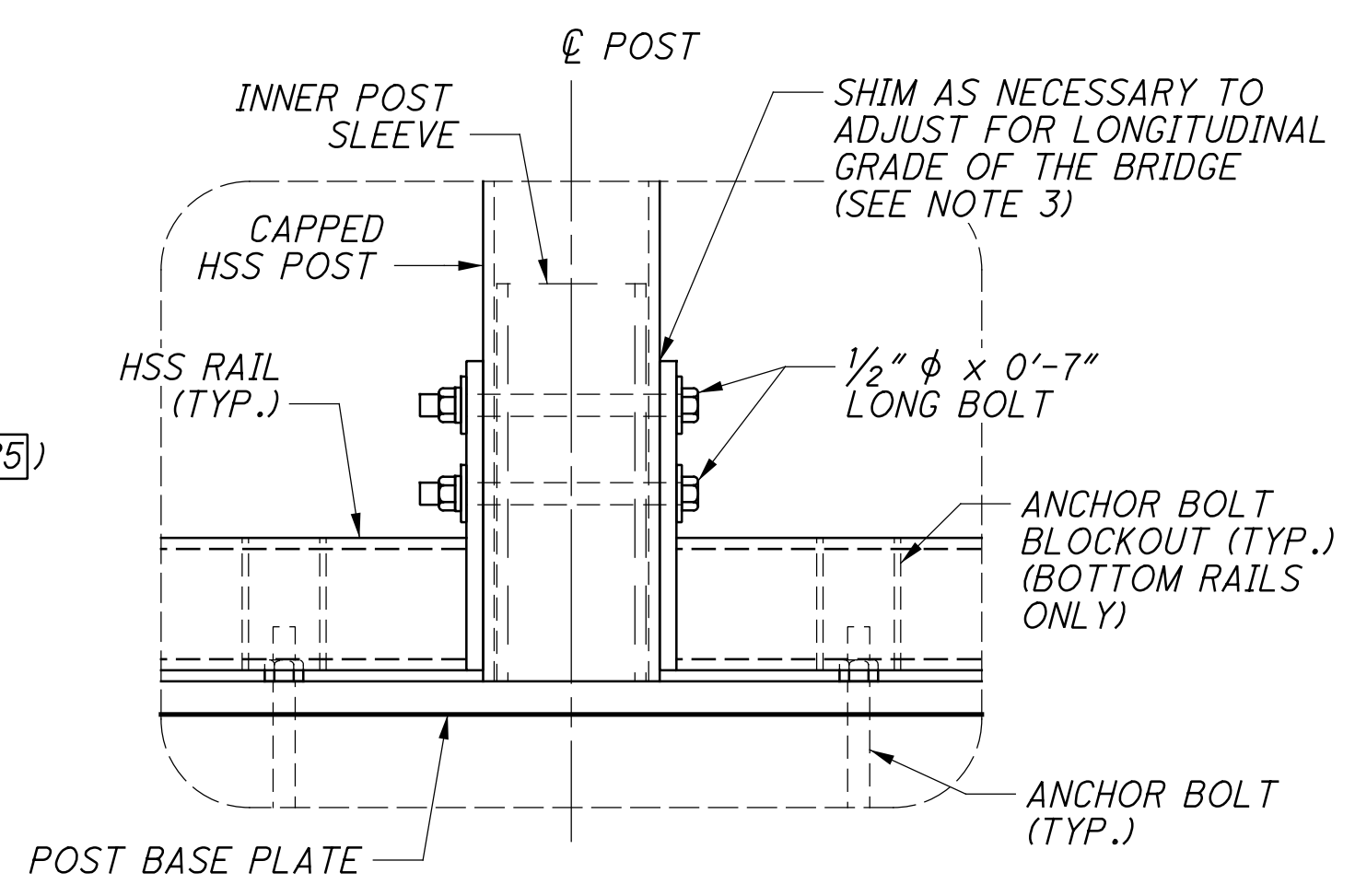
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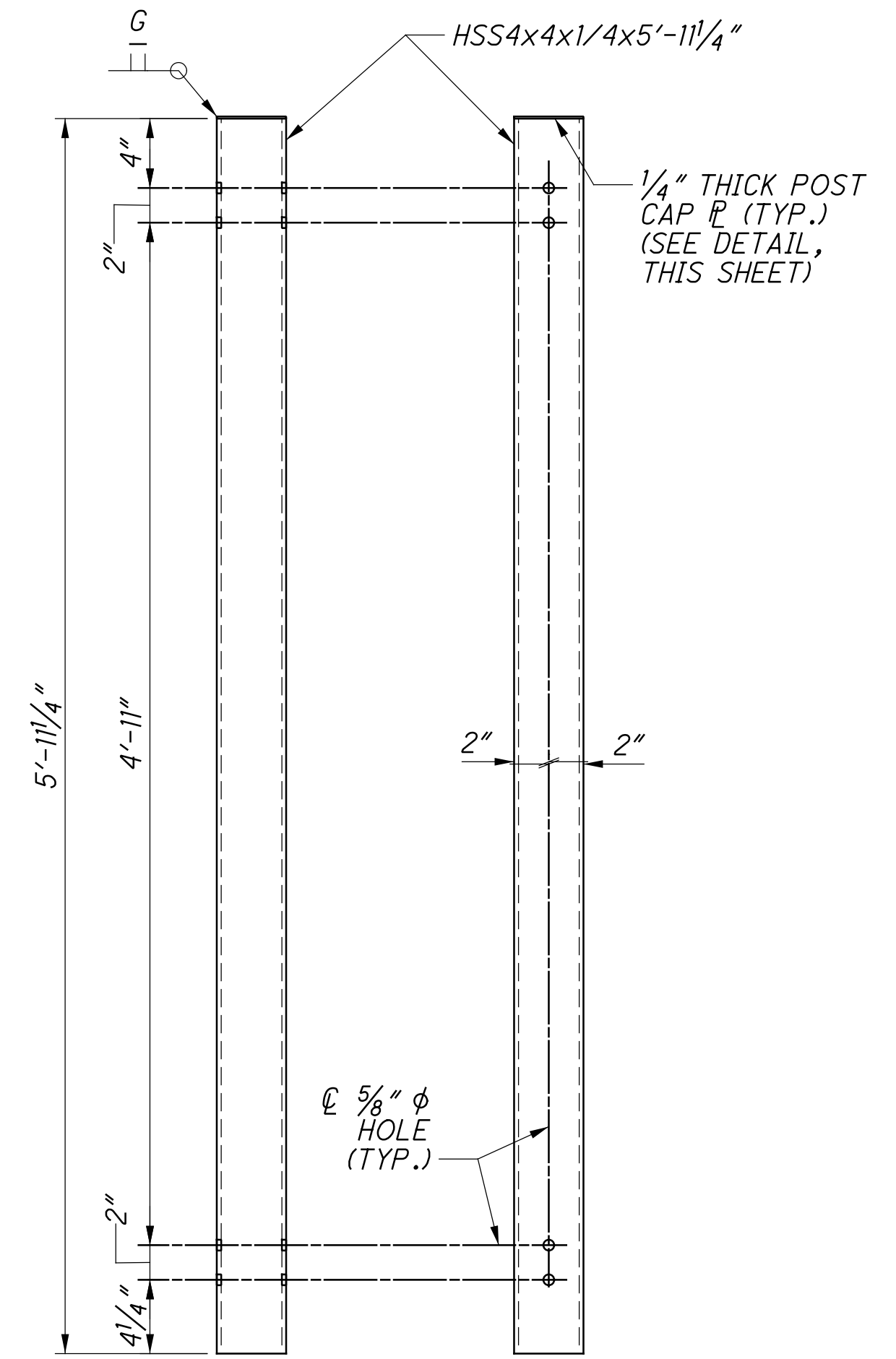
TYPICAL STRUCTURAL FRAMING - INTERIOR ELEVATION
(DECORATIVE FENCE PANELS NOT SHOWN FOR CLARITY)



POST CAP DETAIL

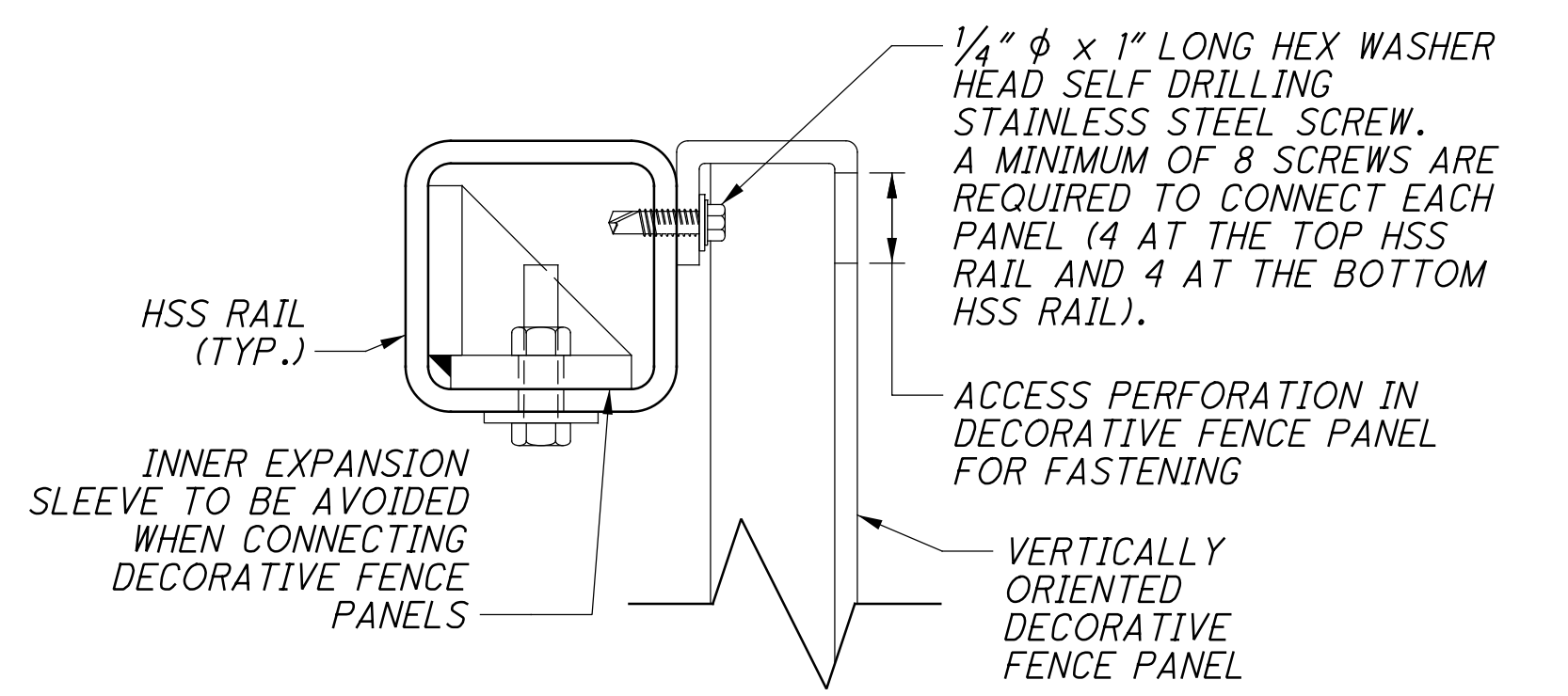


DETAIL C
(BOTTOM CONNECTION SHOWN, TOP CONNECTION SIMILAR)



FRONT VIEW SIDE VIEW

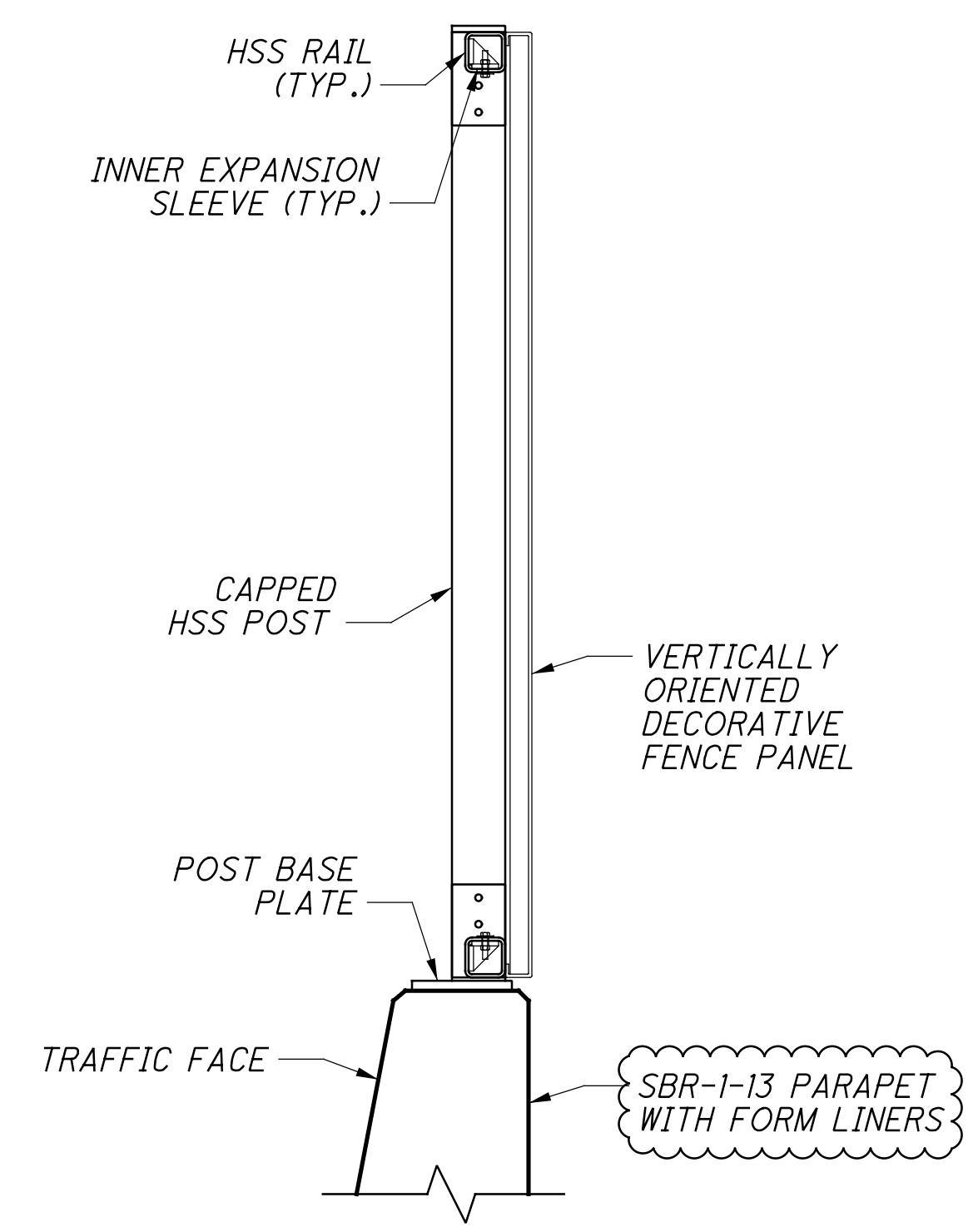
TYPICAL HSS POST DETAIL



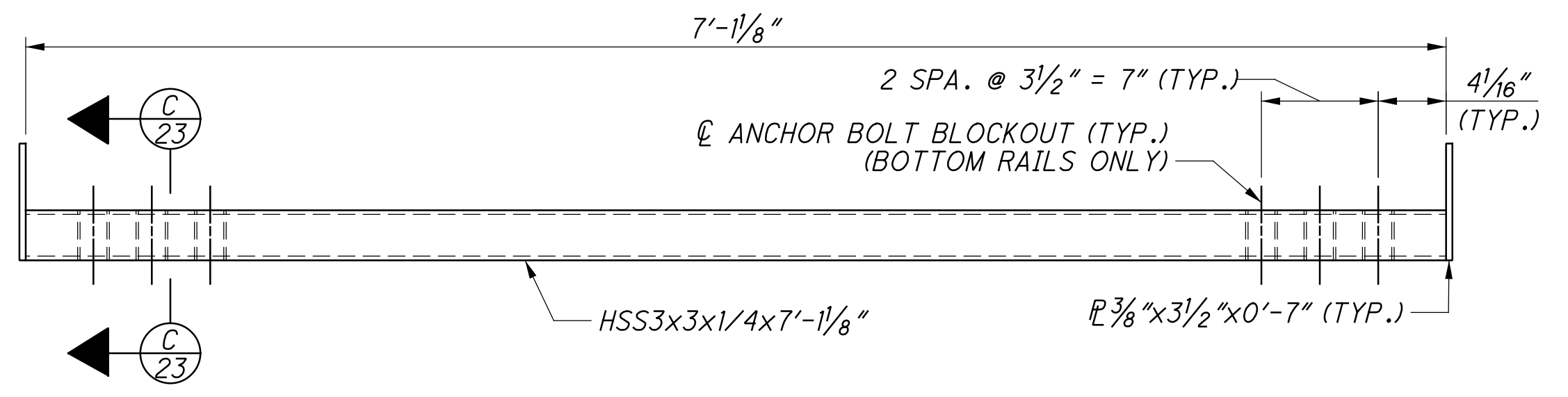
DECORATIVE FENCE PANEL CONNECTION DETAIL
(TOP RAIL CONNECTION SHOWN, BOTTOM RAIL CONNECTION SIMILAR)

NOTES:

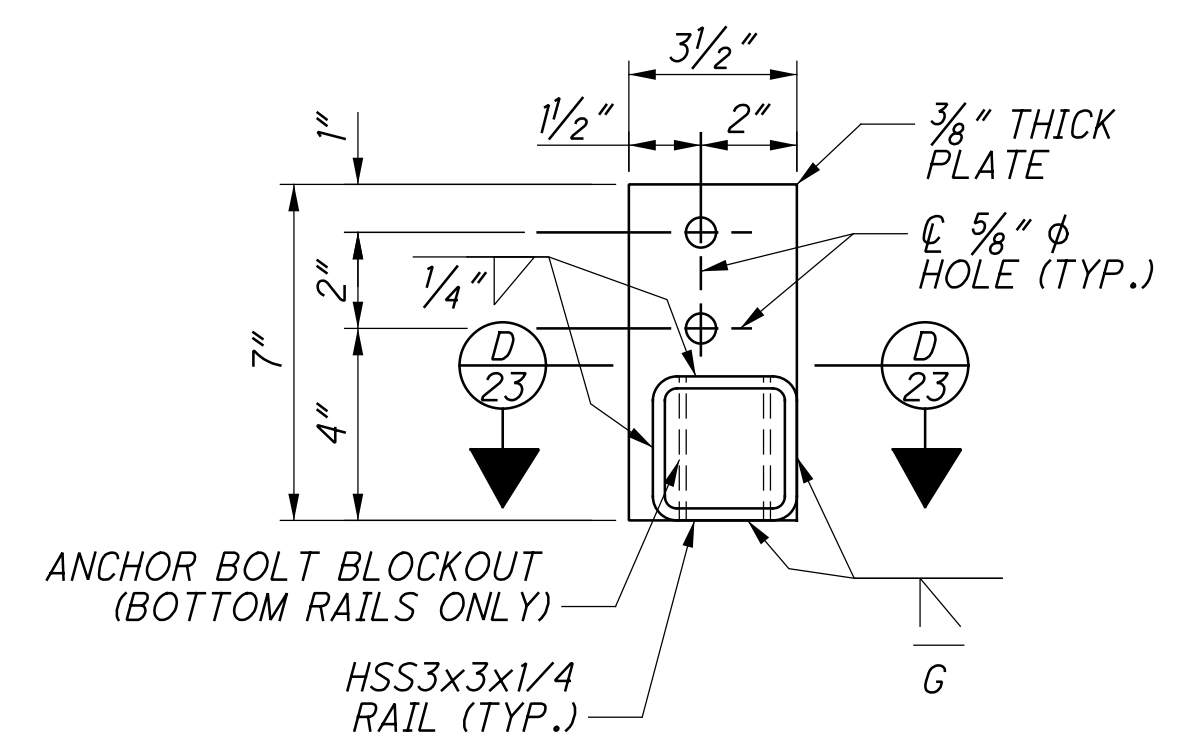
- FOR EXPANSION SLEEVE LOCATIONS, SEE SHEETS 21/25 - 22/25.
- FOR EXPANSION SLEEVE DETAILS, SEE SHEET 24/25.
- TYPE 316 STAINLESS STEEL SHIM PLATES SHALL BE USED TO KEEP BOTH THE TOP AND BOTTOM RAILS PARALLEL, OR AS NEAR TO PARALLEL AS POSSIBLE, WITH THE TOP OF THE PARAPET.



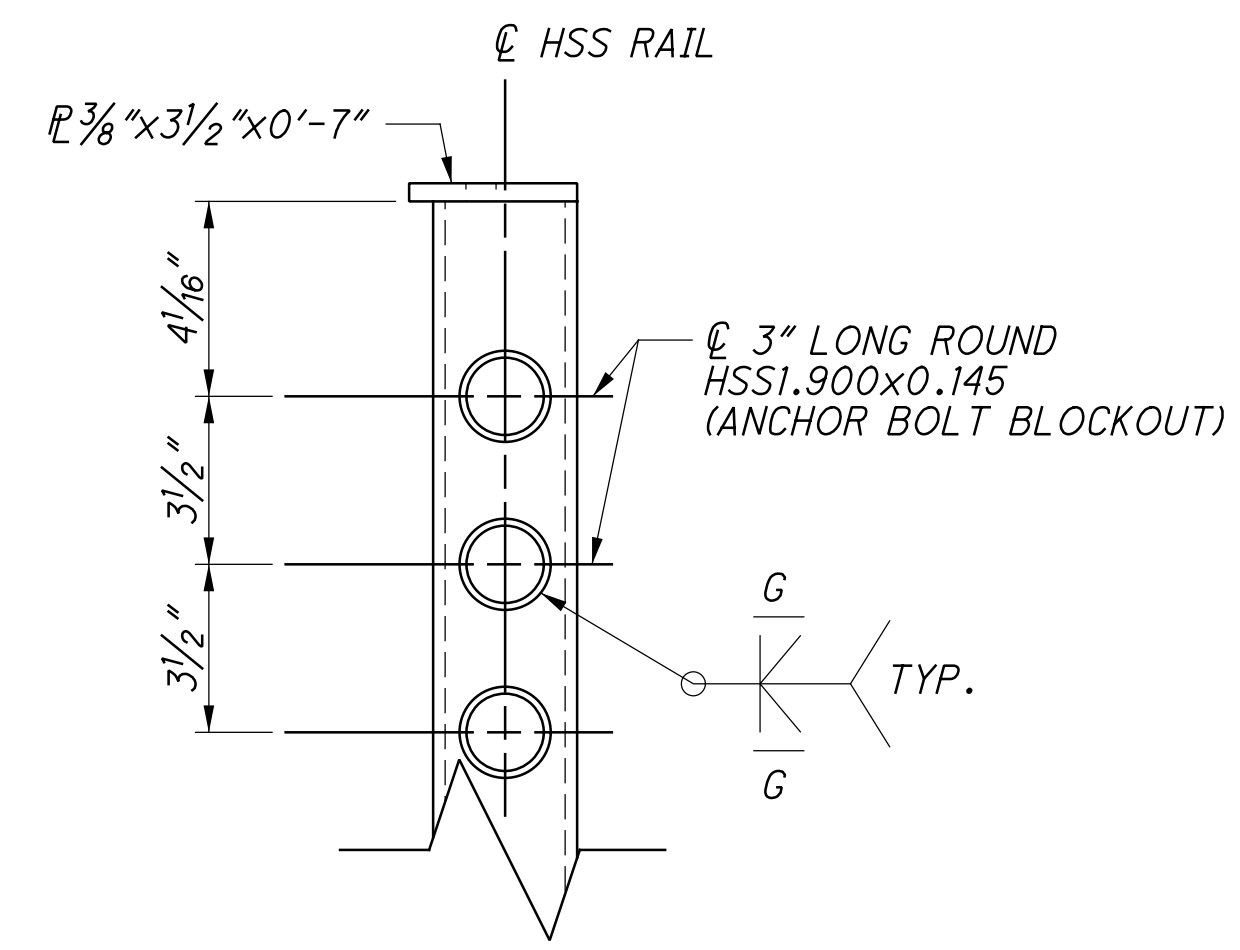
A SECTION
23



TYPICAL HSS RAIL DETAIL
(BOTTOM RAIL SHOWN, TOP RAIL SIMILAR)

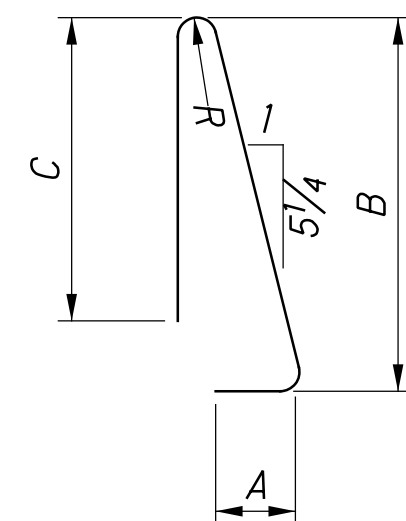


C SECTION
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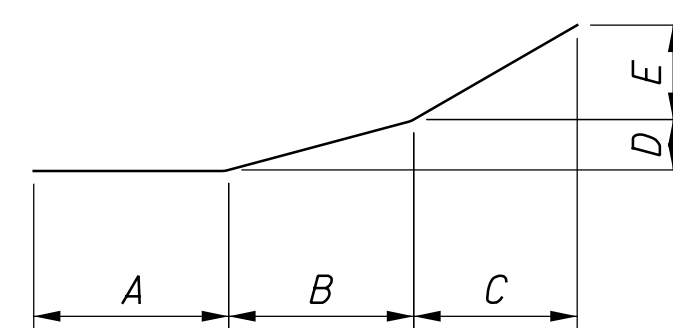


D SECTION
23 BOTTOM RAILS ONLY

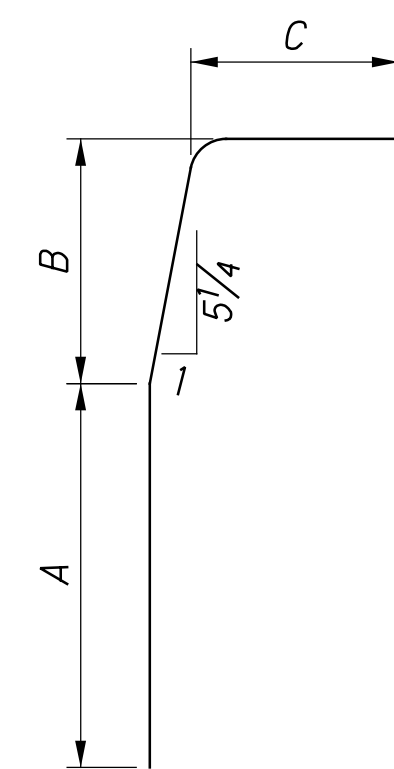
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL				A	B	C	D	E	R
SBR-1-13 PARAPET										
R501	1122	7'-4"	8581	23	0'-11"	3'-3"	3'-0"			0'-3"
R601	1122	2'-2"	3651	34	0'-6"	0'-11"	0'-11"			
R602	1122	1'-5"	2387	STR						
R502	2	3'-2"	7	STR						
R503	2	2'-8"	6	STR						
R504	12	5'-8"	71	STR						
R505	12	5'-0"	63	STR						
R506	32	10'-0"	334	STR						
R507	16	5'-8"	95	25	1'-10"	2'-5"	1'-5"	0'-1 1/2"	0'-5"	
R508	16	5'-8"	95	STR						
R509	2	2'-1"	5	STR						
R510	2	2'-6"	6	STR						
*GR603	330	30'-0"	4040	STR						
*GR604	22	8'-6"	77	STR						
R605	2	2'-11"	9	STR						
R606	2	2'-3"	7	STR						
	8 SR	2'-11"								
R607	OF	TO	689	STR						0'-11/16"
	17	3'-10"								
R608	24	3'-0"	108	STR						
		TOTAL	20231							



TYPE-23



TYPE-25



TYPE-34

NOTES:

1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
2. BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK COLUMN. THE MARK BEGINS WITH ONE OR TWO LETTERS THAT IDENTIFY THE BAR LOCATION. THE NEXT DIGIT WHERE THREE DIGITS ARE USED OR THE NEXT TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER.
 EXAMPLE: S501
 S = SLAB
 5 = #5 BAR
 01 = BAR SEQUENCE NUMBER 1
3. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS NOTED OTHERWISE.
4. "STR" IN THE BAR TYPE COLUMN INDICATES STRAIGHT BAR.
5. BAR MARKS DESIGNATED WITH "*" SHALL BE GLASS FIBER REINFORCED POLYMER REBAR (GFRP). FOR ADDITIONAL INFORMATION, SEE NOTE ON SHEET [17/25].