## TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

## **CARTER COUNTY** I-64 EASTBOUND AND WESTBOUND **OVER KY 1704**

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BID ITEM CODE No.	2403	8510	8104	8151			2998		3299	8469											
BID ITEM	Remove Concrete Masonry	Remove Epoxy Bitumonus Foriegn Overlay	Concrete Class "AA"	Steel Reinforcement, Epoxy Coated			Masonry Coating		Armored Edge for Concrete	1 12" Expansion Dam Neoprene				programa de la constanta de la							
UNIT	C.Y.	S.Y.	C.Y.	LBS.			S.Y.		L.F.	L.F.											
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Structur																					
St																					
Westbound Bridge Eastbound Bridge	58	643	173.6	35788			510		80	85											
Eastbound Bridge	61	643	177.7	35409			525		80	85		-									
														<b></b>							
BRIDGE TOTALS	119	1286	351.3	71197			1035		160	170											

BILL OF INCIDENTA	L MATERIALS
Material	Location
I"Ø I.D. Plastic Pile	Barrier Transitions
2°Ø I.D. Commercial Pipe Sleeve	
1/2" Cork	
<u> </u>	4

		INDEX OF	SHEETS
	Sheet No.		Description
	2	Title Sheet General Notes	
	3	Layout	
	4	Phase Construction	
	5 6	Superstructure Det	oils
	7	Barrier & Long Wing	
	8	Superstructure Bar	bill
		ADDITIONA	I NOTES
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		SPECIAL	NOTES
		SILCIAL	NOTES
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		SPECIAL PF	ROVISIONS
		OI LOIAL II	10 11010110
		STANDARD	DRAWINGS
	BCX-006-0		
	BGX-010-0	3 Barrier Transition	
	BJE-001-1	Neoprene Expansion	Dams and Armored Edges
		CDECIFIC	ATIONIC
	2000	SPECIFIC	
		andard Specification nstruction	s for Road and Bridge
			fications for Highway
		idges including inter	
		REVISION	DATE
	DATE:	Febuary 2002	CHECKED BY
	DESIGNE	D BY: R. Finley	D.Carpenter
	DETAILE	D BY: P. Yost	R. Finley
		Commonwealth	
	Di	EPARTMENT COUNT	OF HIGHWAYS
		CAR	TER
	ROUTE	<u> </u>	CROSSING
	I-64		er Ky. 1704
		TIT	
TEM NUMBER	D	PREPARED BY Vision of Bridg	e Design SHEET NO.
0 2000 00			
9-2009.00	1	D. Carpenter Sec	25282 25282

ITEM NUMBER

## GENERAL NOTES

SPECIFICATIONS: All references to the standard Specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, with current supplemental specifications. All references to the AASHTO Specifications are to the current edition of the AASHTO Standard Specifications for Highway Bridges, with Interims.

LIVE LOAD: This bridge superstructure is designed for HS25 live load or alternate military loading, whichever produces the greater stress. The HS25 live load is arrived at by increasing the standard HS20-44 truck and lane loads as specified in the AASHTO Specifications by 25%.

DESIGN METHOD: All reinforced concrete members are designed by the load factor method as specified in the current AASHTO Specifications.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to face of concrete is 2 inches unless otherwise noted. Any reinforcing bars designated by suffix (e) in the Plans shall be epoxy coated in accordance with section 811.10 of the Standard Specifications. Any reinforcing bars designated by suffix (s) in a Bill of Reinforcement shall be considered a stirrup for purposes of bend diameters.

CONCRETE: Class 'AA' is to be used throughout the new slab and barriers.

BEVELED EDGES: All exposed edges shall be beveled  $\frac{1}{2}$  unless otherwise shown.

BILL OF INCIDENTAL MATERIAL: The Contractor is responsible for furnishing enough material to complete the work in accordance with the Plans and Specifications. The cost of these items is to be included in the unit price bid for Class AA Concrete.

DIMENSIONS: Dimensions are for a normal temperature of 60° F Layout dimensions are horizontal measurements.

SUPERSTRUCTURE SLAB: The superstructure slab shall be poured continuously from out to out before the concrete is allowed to set.

ON-SITE INSPECTION: Each contractor submitting a bid for this work shall make a thorough inspection of the project site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department of Highway.

EXISTING REINFORCING STEEL: The cost of cutting, bending and cleaning existing reinforcing steel is to be incidental to the unit price bid for Removing Concrete Masonry.

MASONRY SURFACE FINISH: Only areas detailed in the plans shall receive masonry coating. All coating shall be applied in accordance with the specifications.

REMOVAL OF EXISTING REINFORCED CONCRETE: This work shall include removal of existing expansion dams and armored edges at each end of the bridge for both structures, the reinforced concrete curbs and handralls for the entire length of each bridge structure plus other concrete noted on the plans and deposing of this material away from each bridge site. Proper care shall be taken to protect the concrete beams and substructure from damage during each operation. The contractor shall be responsible for any damage caused by falling particles. The cost of this work shall be included in the unit price bid for Removing Concrete Masonry for Eastbound and Westbound bridge.

TEXTURING: Texture the surface of the new slab in accordance with Section 609 of the specifications. Cost to texture the surface is included in the unit price bid for "Concrete Class AA"

DAMAGE TO THE STRUCTURE: The contractor is responsible for any and all damages to the structure during reconstruction, even to the replacement of entire spans and removal of the fallen spans at his expense, should they be allowed to fall due to his actions.

PREWETTING THE DECK: The contractor shall use a high pressure washer (minimum 1200 PSI & 2 gal./min.) to wash the deck of any loose material and dirt prior to placing the reinforcment steel. The contractor shall also continously water the deck for 2 hours before placing the new concrete and maintain visible moisture on the deck without standing water while the new slab is being poured. All cost of this work is incidental to Class 'AA' Concrete.

EXISTING ALUMINUM HANDRAIL: The existing aluminum handrail, including posts, shall be carefully removed and transported to the Carter County Maintenance Garage. This material shall remain the property of the department. All costs is incidental to Removing Concrete Masonry

REMOVAL EXISTING OVERLAY: The existing overlay shall be removed in accordance with the specifications. The contractor shall also remove any delaminations and any bituminous material on the existing deck.

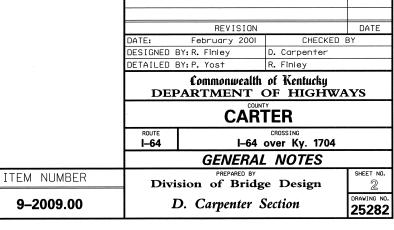
The deck should have a 1/4" amplitude roughness after the overlay removal. All cost associated with removing the existing overlay and removing all bad deck material is included in the unit price bid for 'Removal of Epoxy, Bituminous Foreign Overlays'.

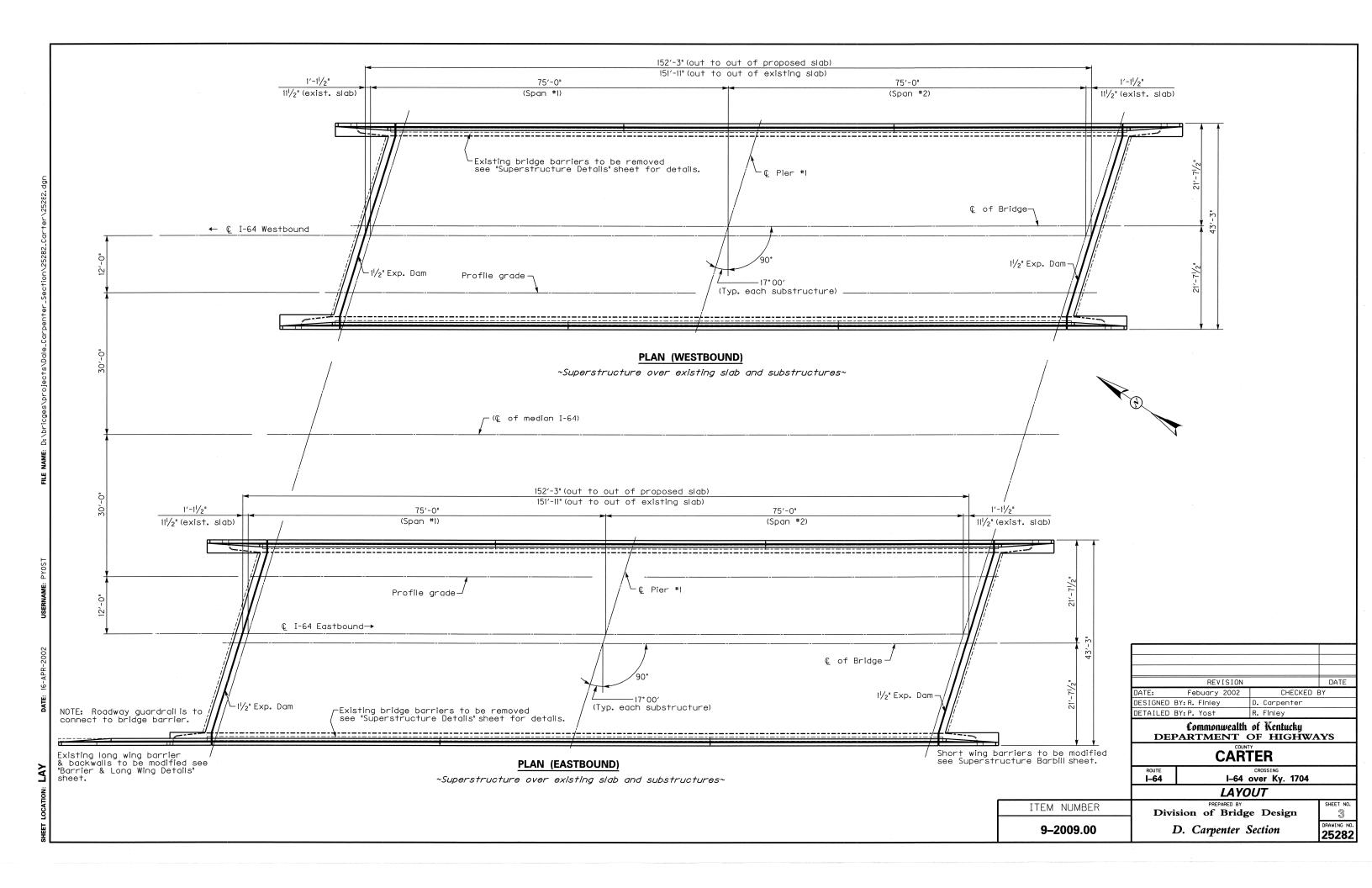
GRADE ELEVATIONS: The Engineer shall check the alignment of the finishing machine rails to verify that the new slab will have a smooth driving surface. Dead load camber is insignificant on the bridge.

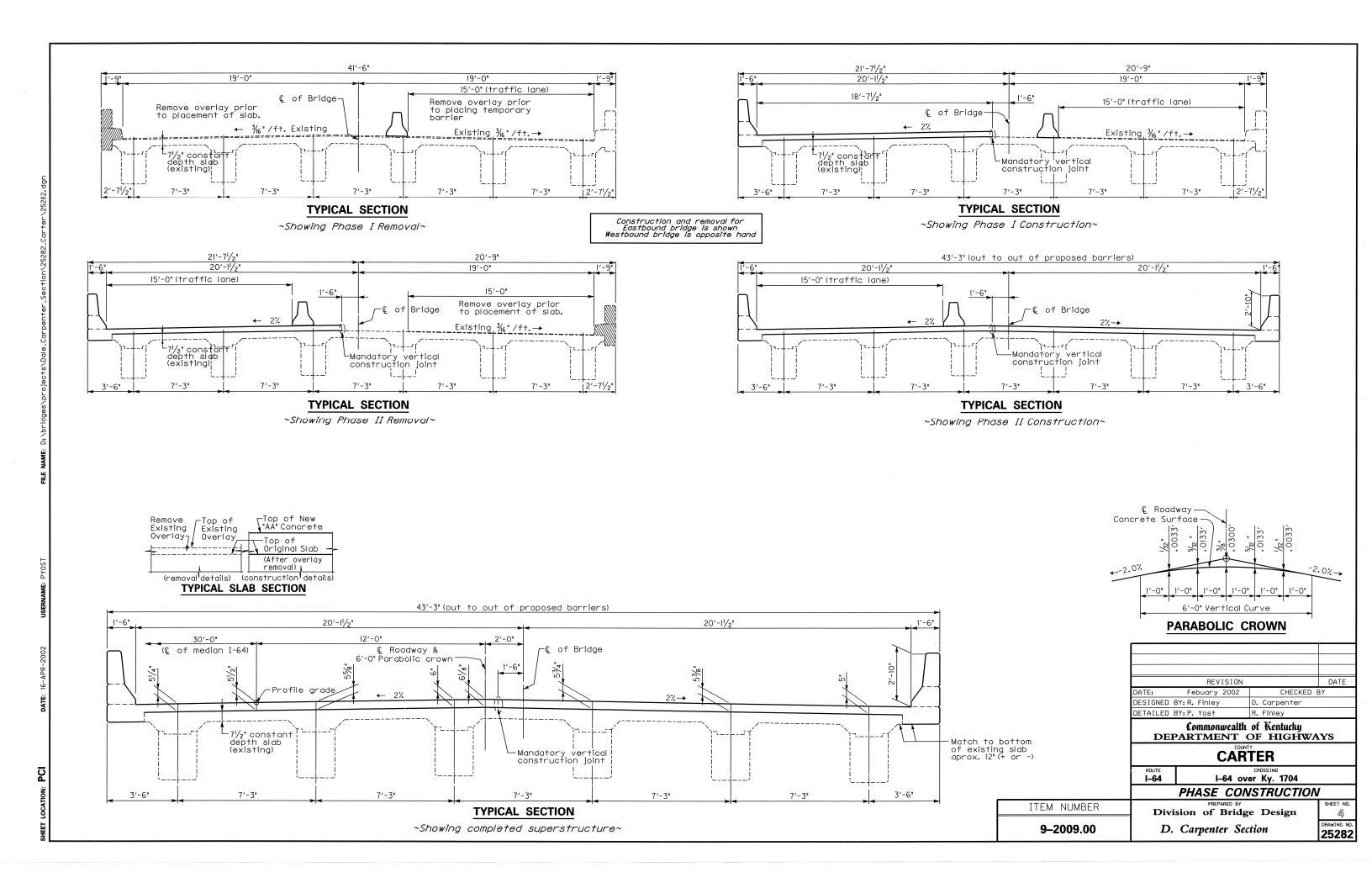
ORIGINAL DRAWING NUMBER: The original drawing number for this structure is 16374.

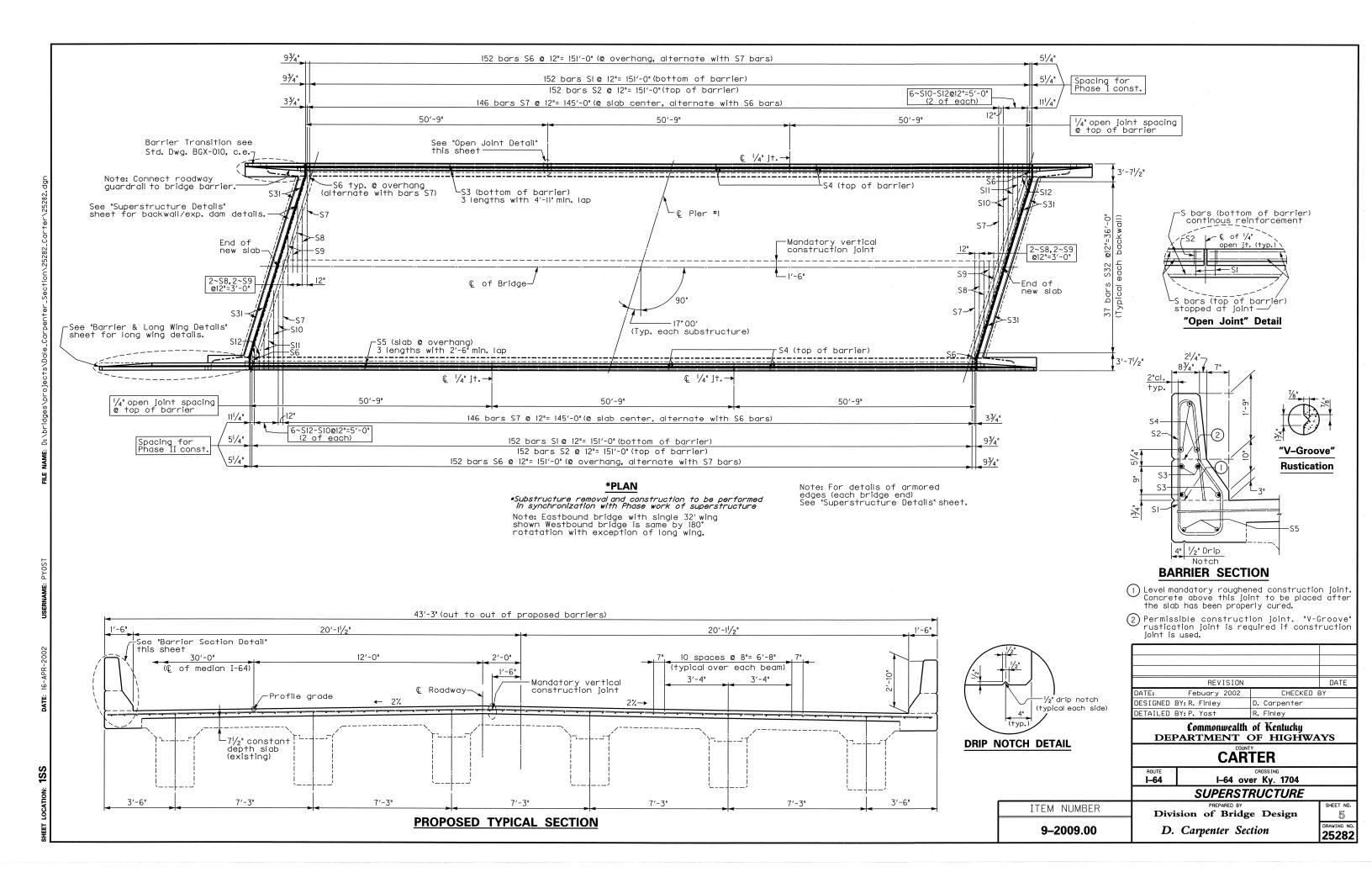
ARMORED EDGES: Contrary to the Standard Drawing BJE-001, c.e. cost to fabricate and install the steel Armored Edge is included in the unit price bid for 'Armored Edge'.

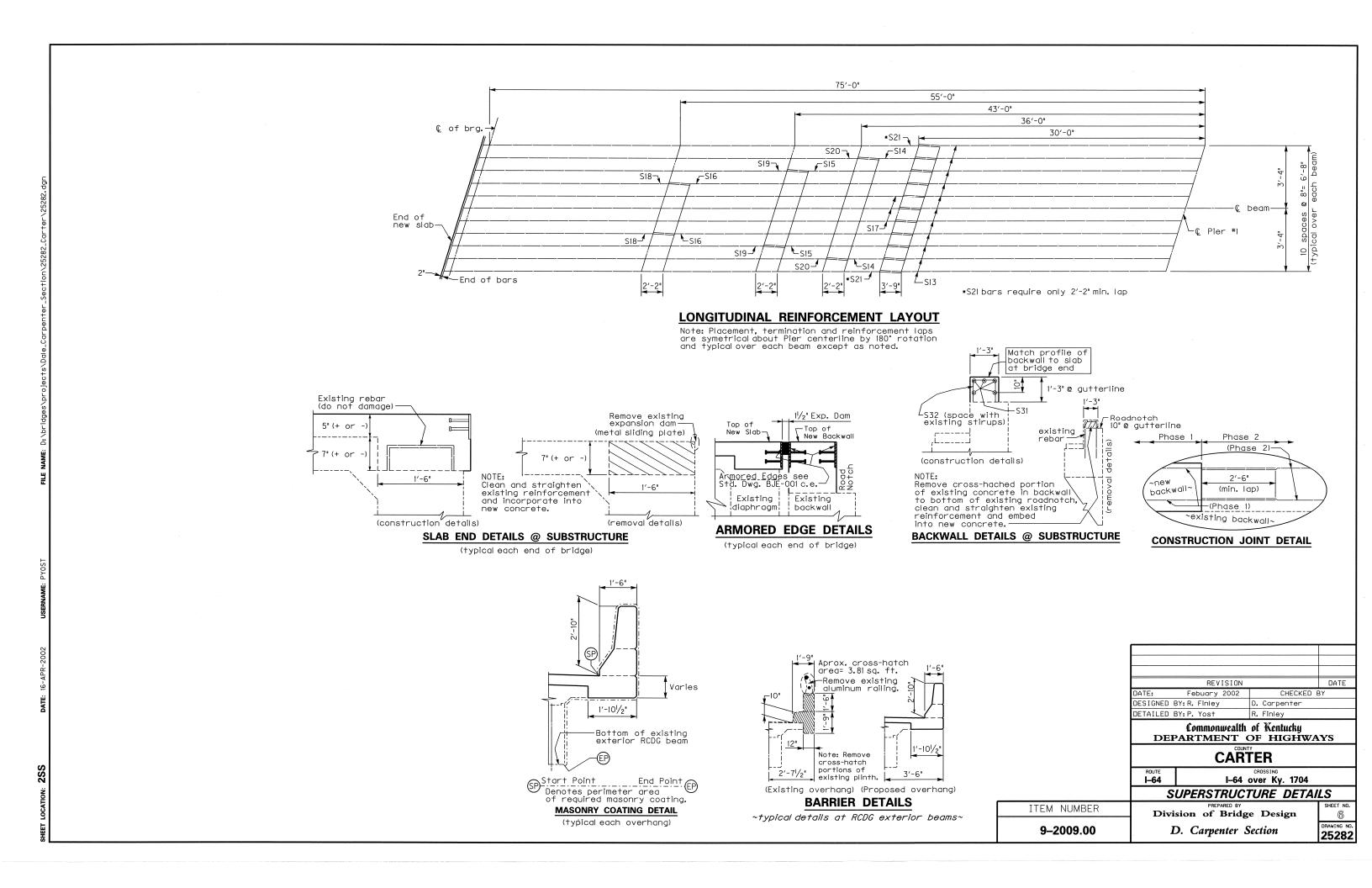
NEOPRENE EXPANSION JOINTS: The costs for armored edges used in the expasion dams shall be included in the cost of the Expansion Dam.

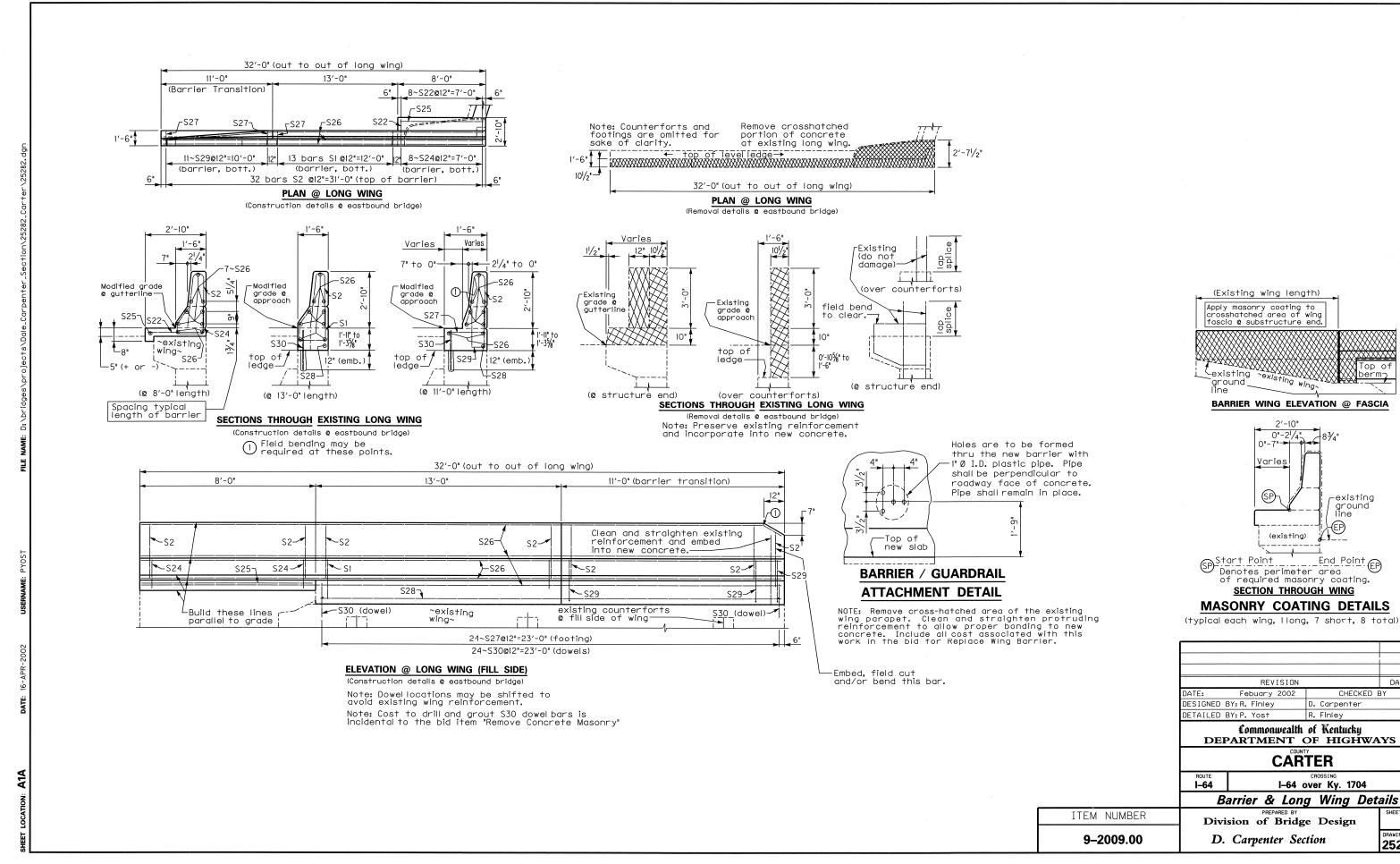












Top of

-existing ground line

DATE

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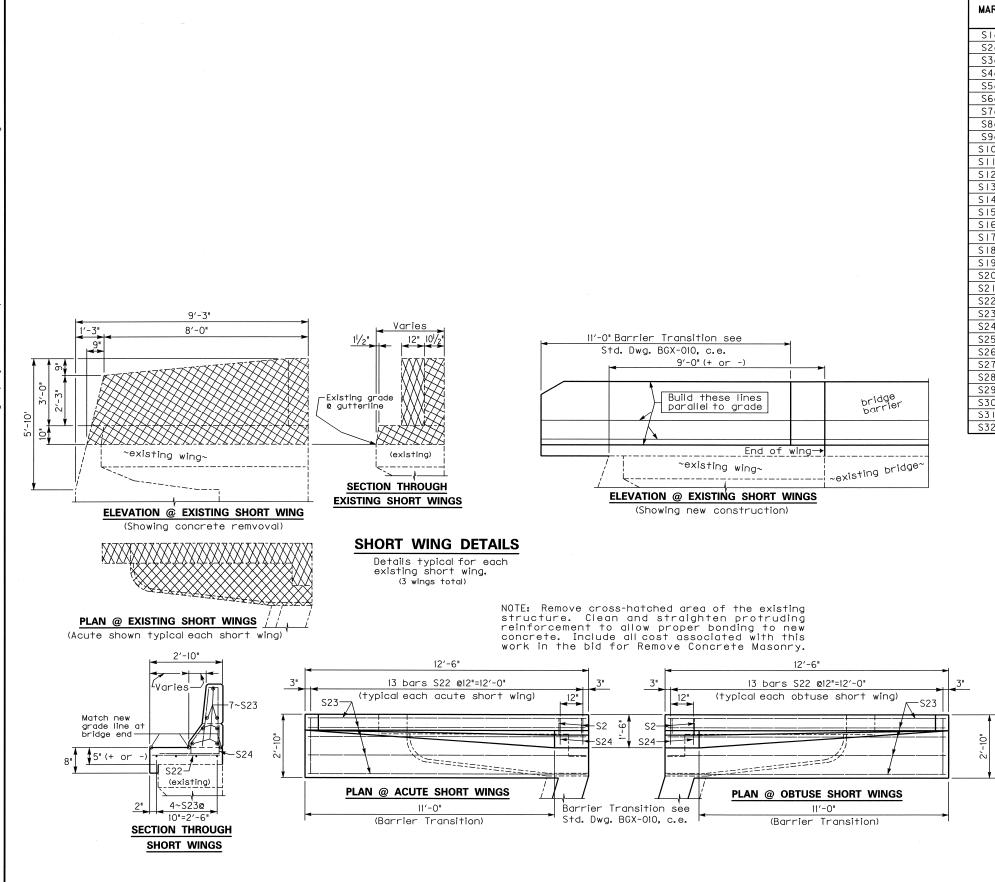
CHECKED BY

D. Carpenter

R. Finley

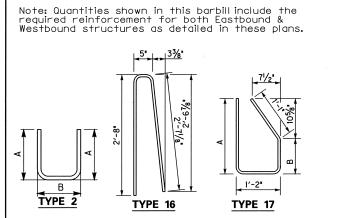
I-64 over Ky. 1704

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## BILL OF REINFORCEMENT FOR EAST & WESTBOUND BRIDGES

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A/E	B/F	C/G	D/H
Sle	17	621	5	5- 1	Barriers & Long Wing	1-11/8	I- I3/8		
S2e	16	654	5	5- 7	Barriers & Wings				
S3e	Str.	48	8	53-11	Barriers				
S4e	Str.	36	5	50- 5	Barriers				
S5e	Str.	24	5	52- 3	Barriers			,	
S6e	Str.	608	5	3- 0	Slab @ overhangs				
S7e	Str.	584	5	22- 9	Slab center				
S8e	Str.	8	5	13-10	Slab @ skew ends				
S9e	Str.	8	5	7- 4	Slab @ skew ends				
SI0e	Str.	8	5	17- 9	Slab @ skew ends				
Slle	Str.	8	5	11- 2	Slab @ skew ends				
SI2e	Str.	8	5	4- 8	Slab @ skew ends				
SI3e	Str.	132	7	60- 0	Slab over beams				
SI4e	Str.	48	7	9- 9	Slab over beams				
SI5e	Str.	48	7	16- 9	Slab over beams				
S16e	Str.	48	7	28- 9	Slab over beams				
SI7e	Str.	72	7	49- 5	Slab over beams				
S18e	Str.	48	4	23- 2	Slab over beams				
SI9e	Str.	48	4	35- 2	Slab over beams				
S20e	Str.	48	4	42- 2	Slab over beams				
S21e	Str.	48	4	48- 2	Slab over beams				
S22e	Str.	99	5	2- 6	Short Wings				
S23e	Str.	77	5	12- 2	Short Wings				
S24e	17	22	5	3-11	Short & Long Wings	1- 41/8	0- 63/8		
S25e	Str.	ı	5	7- 8	Long Wing				
S26e	Str.	9	5	31-8	Long Wing				
S27e	Str.	24	5	1- 2	Long Wing				
S28e	Str.	1	5	23- 8	Long Wing				
S29e	2	11	5	4- 5	Long Wing	2- 0	0- 8		
S30e	Str.	24	6	2- 0	Long Wing (dowels)				
S31e	Str.	40	5	21- 2	Backwall				
S32e	2	148	5	2-11	Backwall	1- 2	0-10		



	REVISION	·	DATE
DATE:	Febuary 2002	CHECKED	BY
DESIGNED	BY: R. Finley	D. Carpenter	
	5 V 5 V 1		
	BY: P. Yost  Commonwealth		
	Commonwealth	of Kentucky OF HIGHWA	AYS
	Commonwealth PARTMENT	of Kentucky OF HIGHWA	AYS
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DRAWING NO. **25282** 

ITEM NUMBER Division of Bridge Design 9-2009.00 D. Carpenter Section