TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

GRAYSON - BRECKINRIDGE COUNTY BRANDENBURG ROAD KY 259 OVER ROUGH CREEK

	ESTIMATE OF QUANTITIES																														
BID ITEM CODE	08100	08104	08151	08150	25078ED	02381	02351	25028ED	23378EC	03299	08470	08472	23069NN	08170	23813EC	02998	23298EC	02726	02650	02596	02014	02585	02568	00001	00214	00339	02562	0651(4	02403		
BID ITEM	Concrete Class "A"	© Concrete Class "AA"	Steel Reinforcement, Epoxy Coated	Steel Reinforcement	Thrie Beam Guardrail Transition - TL3	Remove	Guardrail Steel "W" Beam Single Face	Railing System Single Slope 40 IN	Concrete Sealing	Armored Edge for Concrete	Expansion Dam 2 Inch Neoprene	Expansion Dam 4 Inch Neoprene	Bridge Deck Removal	Shear Connectors	Deck Drain	Masonry Coating	Steel Repair-Bearing Stiffener	Staking	Maintain And Control Traffic	Demobilization	Barricade Type III	Edge Key	Mobilization- For Concrete Sealing	DGA Base	CL3 ASPH BASE 1.00D PG64-22	CL3 ASPH SURF 0.38D PG64-22	Temporary Signs	Pave Striping - Perm Paint 4 IN	Remove Concrete Masonry		
UNIT	C.Y.	C.Y.	LBS.	LBS.	Each	L.F.	L.F.	L.F.	S.F.	L.F.	L.F.	L.F.	L.S.	L.S.	Each	S.Y.	Each	L.S.	L.S.	L.S.	Each	L.F.	L.S.	Ton	Ton	Ton	S.F.	LF>	C.Y.		
Abutment #1	4.5			709												67													6		
Pier #1																															
일 Pier #2	<u> </u>																														
ਰੂ Abutment #2	4.5			709												67													6		
str																												\rightarrow			
จื																												(
σ																												\rightarrow			
			ļ		ļ		ļ																								
Superstructure		389.7	137632		4	800	698	856	19719	62	31	31		1	16		8														
BRIDGE TOTALS	9.0	389.7	137632	1418	4	800	698	856	19719	62	31	31	1	1	16	134	8	1	1	1	2	60	1	24	16	123	165	3600	12		

(2) Class "AA" Concrete in diaphragm included in Superstructure Quantities (1) Estimated Number of Shear Connectors is 2912

S2 | General Notes Concrete Removal Details Abutment #1 Abutment #2 Steel Details S8-S10 | Superstructure S11-S13 Construction Elevations S14 Detour SPECIAL NOTES Special Note for Concrete Sealing SPECIAL PROVISIONS STANDARD DRAWINGS BGX-006-10 |Stencils for Structures BGX-022 Joint Waterproofing BJE-001-14 Armored Edges BJE-002 Expansion Joints BHS-010 Railing System 40 Inch Single Slope BGX-015-04 Bridge Drains Thrie-Beam Guardrail Transition (TL-3) SPECIFICATIONS 2019 Standard Specifications for Road and Bridge Construction 2020 AASHTO LRFD Bridge Design Specifications COUNTY OF 4-10047 **GRAYSON** DRAWING NUMBER

28895

INDEX OF SHEETS

Description

Sheet No.

Title Sheet

Bridge #043B00001

Rough River

Lat. 37.591944, Long -86.329444

GENERAL NOTES

SPECIFICATIONS: All references to the 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 LRFD Bridge Design Specs, with interims.

DESIGN LOAD: This bridge slab is designed for a KYHL-93 live load. The KYHL-93 live load is arrived at by increasing the standard HL-93 truck and lane loads as specified in the AASHTO Specifications by 25%. The beams are designed for a HS-25 Live Load.

FUTURE WEARING SURFACE: This structure is designed for a 60 PSF future wearing surface load.

DESIGN STRESSES: Concrete Class "A" \sim f'c = 3500 psi Concrete Class "AA" \sim f'c = 4000 psi Steel Reinforcement \sim Fy = 60,000 psi Structural Steel Yield Strength \sim Fy = 50,000 psi

DESIGN METHOD: All reinforced concrete members are designed by the load and resistance factor method as specified in the current AASHTO Specifications. The steel beams and upgrades were designed with the Load Factor Method specified in the 17th edition AASHTO Standard Specifications for Highway Bridges.

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", unless otherwise noted. Any reinforcement bars designed be 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.

BEVELED EDGES: Bevel all exposed edges $\frac{3}{4}$ " unless otherwise noted.

COMPLETION OF THE STRUCTURE: The Contractor is required to complete the structure in accordance with the plans and specifications. Material, labor or construction operations, not otherwise specified, are to be included in the bid item most appropriate to the work involved. This may include cofferdams, shoring, excavations, backfilling, removal of all or parts of existing structures, phase construction, incidental materials, labor or anything else required to complete the structure.

SHOP DRAWINGS: Submit shop drawings that are required by the plans and specifications directly to the Division of Structural Design. Is any changes in the design plans are proposed by a fabricator or supplier, submit those changes to the Department through the Contractor.

DIMENSIONS: Dimensions are for a normal temperature of 60 degrees Fahrenheit. Layout dimensions are horizontal dimensions.

SUPERSTRUCTURE SLAB: Ensure the entire superstructure slab is poured continuously, out to out, before allowing any concrete to set.

MASONRY COATING: Apply masonry coating to abutments according to the Specifications. Do not apply masonry coating to the piers or where Concrete Sealer is called out in these plans on the superstructure.

CONCRETE SEALER: The superstructure deck, barriers and overhangs shall also be sealed as shown herein these plans. Concrete surfaces (except the deck) shall receive the ordinary surface finish as described in section 601.03.18(A) prior to being sealed.

CONCRETE: Class "AA" is to be used throughout the new superstructure. Class "A" is to be used on the substructures.

ORIGINAL PLANS: Original drawing number is 13333.

FORM WEIGHT: Design Includes 16 psf for stay in place firm weight and allows for concrete filling voids. If contractor chooses to fill flutes with concrete, cost for extra concrete is incidental.

PROHIBITED FIELD WELDING: No welding of any nature, other than indicated on plans, is to be performed without the written consent of the designer, and then only in the manner and at the locations designated in the authorization.

SHEAR CONNECTORS: The minimum length of studs is $8\frac{1}{4}$ ". Provide the necessary length to penetrate at least 2" above bottom of slab. The "Lump Sum Bid" for shear connectors shall be full payment for all necessary shear connectors, welding and welding material, and materials necessary to field weld or shop weld the shear connectors in place according to the plans and specifications.

If the Contractor wishes to use something other than the stud shear connectors shown on the plans, the proposed arrangement shall be submitted for approval with the shop plans.

Studs shall be welded in accordance with AWS Specifications.

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 be be honored be the Department of Highways.

DAMAGE TO THE STRUCTURE: The contractor is responsible for any and all damages to the existing structure during reconstruction even to the replacement of the entire structure, should any part be damaged due to their actions.

DRILLING AND GROUTING: In accordance with Section 826 of the specifications, drill holes to a depth as shown herein these plans and apply a Type IV epoxy bonding adhesive in the holes. Also apply a Type V epoxy bonding material to the interface between the existing concrete and the new concrete prior to placing the new concrete. All costs associated with this work shall be incidental to the unit price bid for Class "A" Concrete.

EXISTING REINFORCING STEEL: The costs of cutting, bending and cleaning existing reinforcing steel in the abutments, if required, is to be incidental to the lump sum bid for "Bridge Deck Removal".

Bridge Deck Removal: Include in the lump sum bid for "Bridge Deck Removal" all costs (materials, labor, equipment, etc.) associated with removing and disposing of the deck, barriers, and all removal on existing abutments as detailed herein in accordance with Section 203 of the Specifications. Also include in this lump sum bid the cost of any required excavation and subsequent backfilling (including materials, labor, equipment, etc.) behind the abutments.

DIMENSIONS AND ELEVATIONS: All dimensions and elevations given in these plans are based on field surveyed data and dimensions from the old plans. Prior to beginning work or ordering any materials, the contractor shall verify all dimensions and elevations. No claim shall be honored by KYTC regarding site conditions.

BRIDGE OVERLAY APPROACH PAVEMENT: Excavation into existing pavement or ground behind abutment may be required for abutment rehab. Include all costs for excavation in the lump sum price bid for Bridge Deck Removal. Backfill of excavated soil shall be with geotextile wrapped 57s. Pavement structure in the fully removed sections shall consist of a minimum of 12 inches compacted DGA, 2~4 inch minimum lifts of asphalt base, and 1.5 inch minimum of asphalt surface. Surface shall be placed over existing pavement where existing pavement was not fully removed to provide a smooth transition from the bridge deck elevation to the existing pavement elevation within 200 feet off the end of the bridge. Provide plan to Engineer for approval prior to beginning work.

MATERIAL A.S.T.MAASHTO High Strength Low Alloy *A709 GR 50 *M270 GR 50

Structural Steel

* Use this equivalent specification with the ANSI/AASHTO/AWS D1.5 welding code, and welding notes.

Pintles and stud shear connectors, UNS G 1018 M-169 High strength bolts, nuts, and washers ASTM F3125 A325 M253 Type 1

Sheet lead and Pig lead B29-79

All flange and web material, including splice plates, in longitudinal plate girders shall meet the longitudinal charpy V-Notch toughness test applicable to Zone 2 minimum service temperature from -1 deg. F. to -30 deg. F. in accordance with the following:

M270 GR 50 (up to 2" thickness) of 25 ft-lbs at 40° F. M270 GR 50 (2" to 4" thickness) of 30 ft-lbs at 40° F.

Sampling and testing procedures shall be in accordance with AASHTO T243 current edition, utilizing (H) frequency testing. When plate thickness exceeds $1\frac{1}{2}$ ", frequency of testing shall be (P).

MAINTAIN AND CONTROL TRAFFIC: The contractor is fully responsible for maintaining and controlling traffic on this project. Bridge is to be fully closed to traffic for construction. Contractor shall provide signs letting public know of bridge closure for each direction and shall place type III barricades at each end of the bridge.

HIGH STRENGTH BOLT CONNECTIONS: Unless otherwise specified on the plans, all bolted connnections shall be ASTM F3125 Grade A325 high strength bolts, nuts, and washers. Type 1 hot dipped bolts and associated hardware shall be used as described in AASHTO M253. All high strength bolted field connections are to be installed with "direct tension indicators" (DTI's) in accordance with the Standard Specifications and ASTM F959. All DTI's shall be manufactured from a steel conforming to the chemical requirements of ASTM F3125 for Type 1 hot dipped galvanized steel. DTI's shall be installed under the bolt head with the bumps facing the underside of the bolt head. Put a hardened washer under the nut and tension from the nut.

The following abbreviations may have been used in the preparation of these plans:

bet between b.f. Back Face BOF Bottom of Footing Bottom of Slab bot. Bottom Bearing Brg. C to C Center to Center **Current Edition** c.e. C.Y. Cubic Yards Chd. Chord CL Center Line Clr. Clear Conc. Concrete Cubic Cu. Dwg. Drawing e.f. Each Face Elevation Equal eq. Estimate Ext. Exterior F to F Face to Face f.f. Front Face f.s. Far Side Front Feet Inside Diameter Inch Interior

Left LBS Low Bridge Seat LBS. Pounds Meter MPH Miles Per Hour

n.s. Near Side Outside Diameter O.D. Opposite PC Point of Curvature

Perp. Perpendicular Point of Intersection PPC **Precast Prestressed Concrete**

PPCDU Precast Prestressed Deck Unit PSI Pounds per Square Inch PT Point of Tangency

Radius Right

RCBC Reinforced Concrete Box Culvert Reinforced Concrete Deck Girder **RCDG**

Required Reg'd RRRailroad Shld. Shoulder Spaces Sta. Station Standard Str. Straight Tan Tangent Thru Through TOF Top of Footing Top of Slab TOS Tot. Total

Typical Typ. Vertical Vert. **Working Point** W.P.

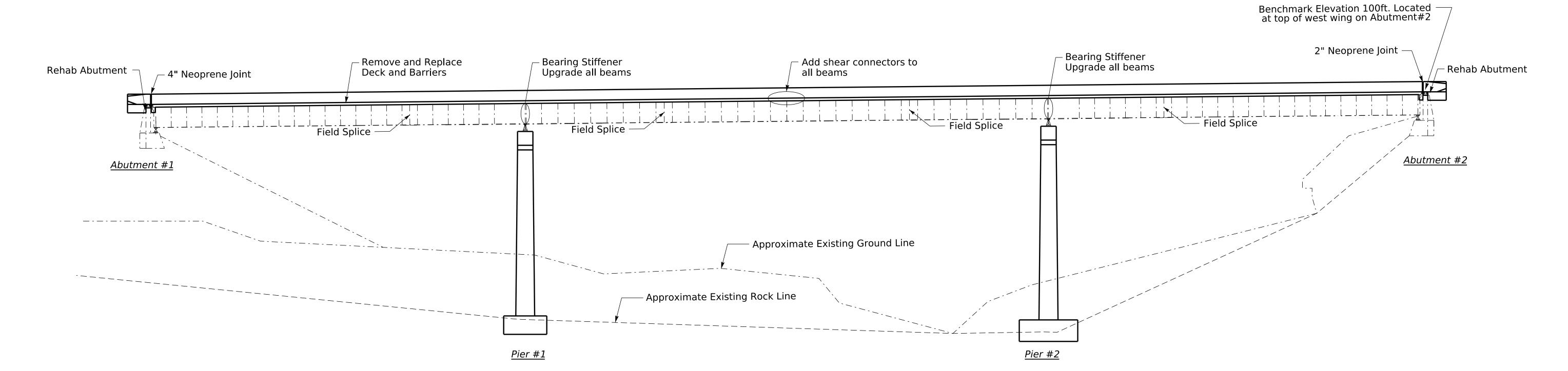
Yard

Yd.

PREPARED BY COUNTY OF REVISION DATE: April 2024 CHECKED BY GENERAL NOTES **ROUTE** COMMONWEALTH OF KENTUCKY KENTUCKY 4-10047 **GRAYSON** Division of DESIGNED BY: N. Cordtz W. Deaton KY 259 DEPARTMENT OF HIGHWAYS DRAWING NUMBER Structural Design Rough River 28895 DETAILED BY: M. BawiThawng N. Cordtz OpenRoads Designer v10.12.02.4 USER: Brian.Miller DATE PLOTTED: 11-OCT-2024 FILE NAME: J:\District04\RS & M\Grayson Breckinridge 043B00001N Deck Replacement\Nick's Design\DETAILS\28895.dgn

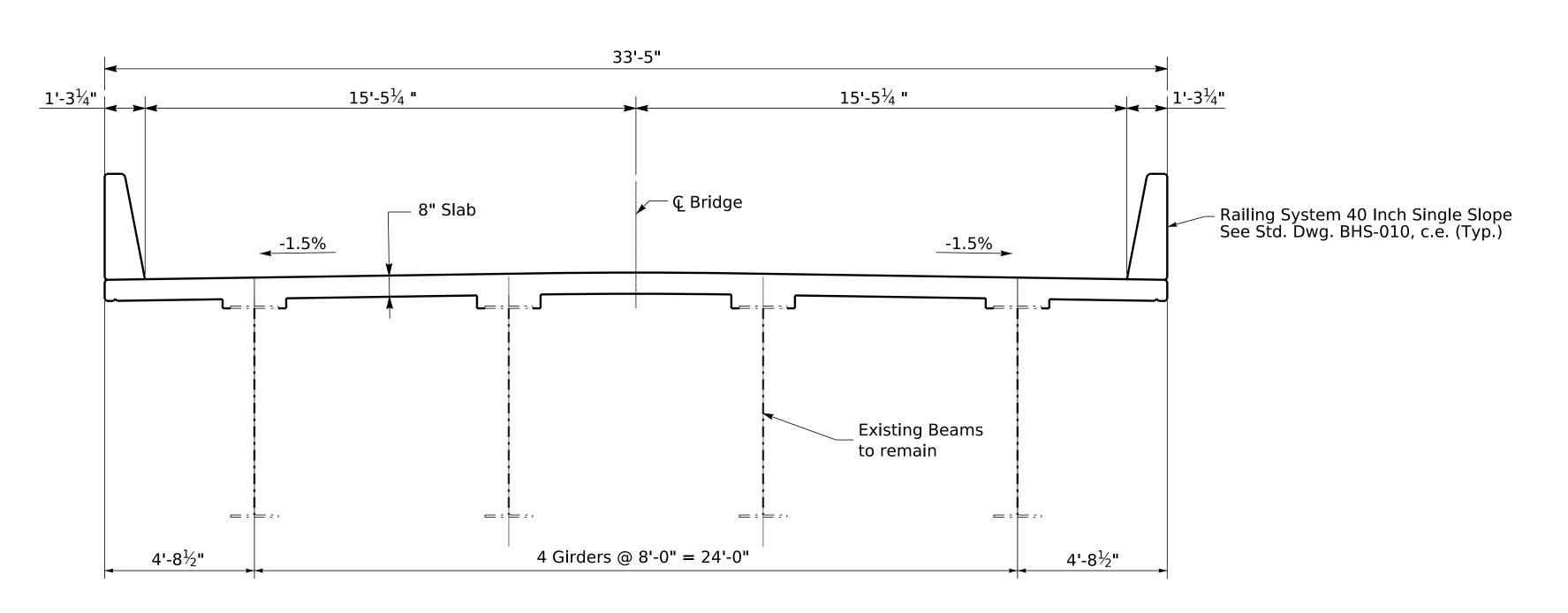


To HARDINSBURG



ELEVATION

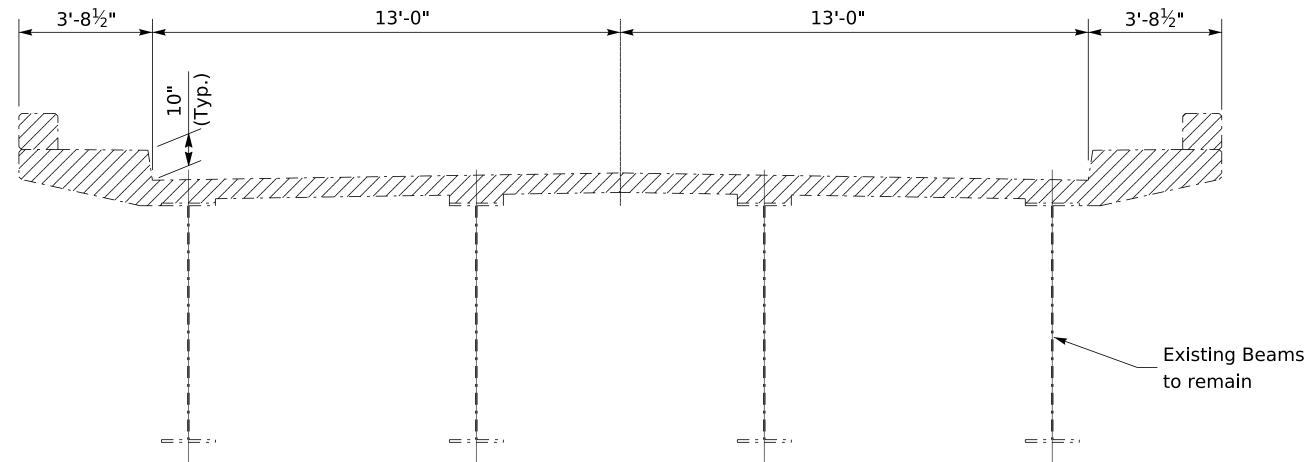
Note: The elevations given in these plans are relative elevations based on a point located at the top of the west wing on Abutment #2. The elevation at this location is assumed to be 100 feet and is not based on sea level elevations.



TYPICAL SECTION

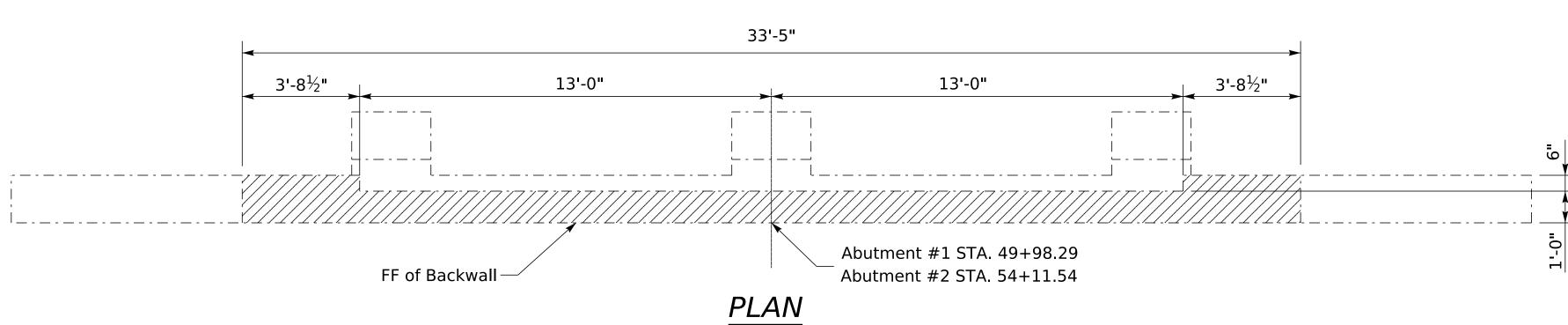
(Showing new deck and beams)

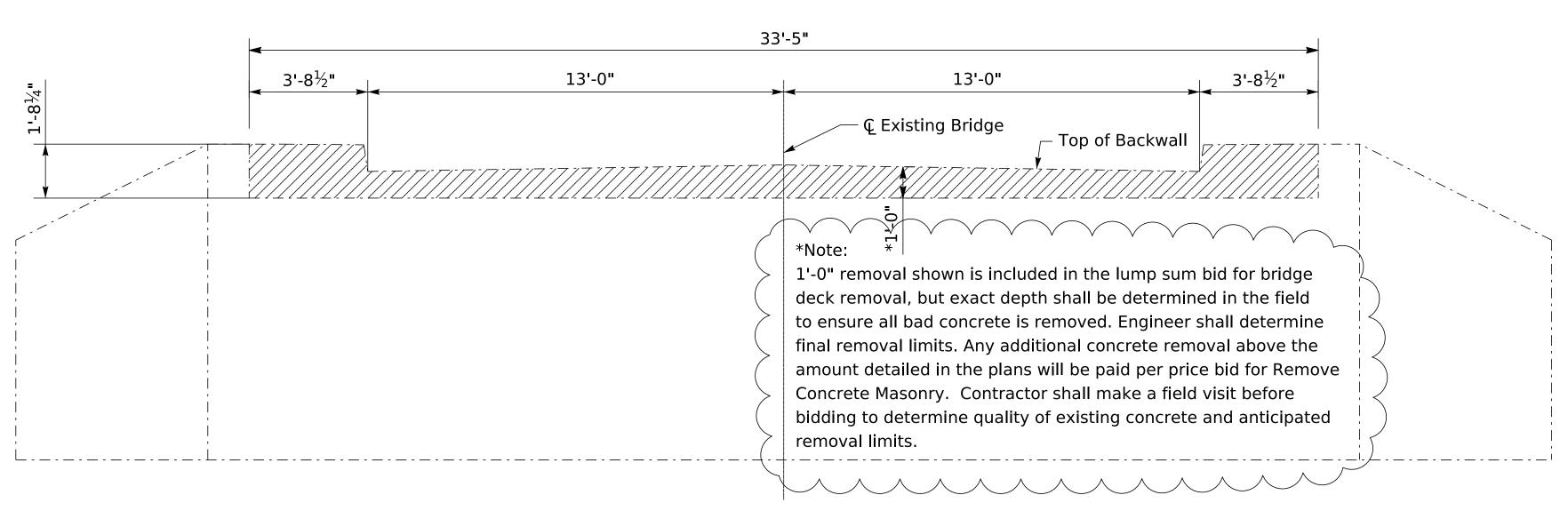
COMMONWEALTH OF KENTUCKY TEAM.	REVISION	DATE	PREPARED BY	DATE: April 2024	CHECKED BY	LAYOUT	ROUTE	ITEM NO. 4-10047	COUNTY OF GRAYSON
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS TEAM CENTUCKY TRANSPORTATION CARNETT TRANSPORTATION TRANSPORTA			Division of	DESIGNED BY: N. Cordtz	W. Deaton		KY 259	4-10047 SHEET NO.	DRAWING NUMBER
TRANSPORTATION CABINET			Structural Design	DETAILED BY: M. BawiThawng	N. Cordtz	Rough River	KI ZJJ	S 3	28895



ELEVATION

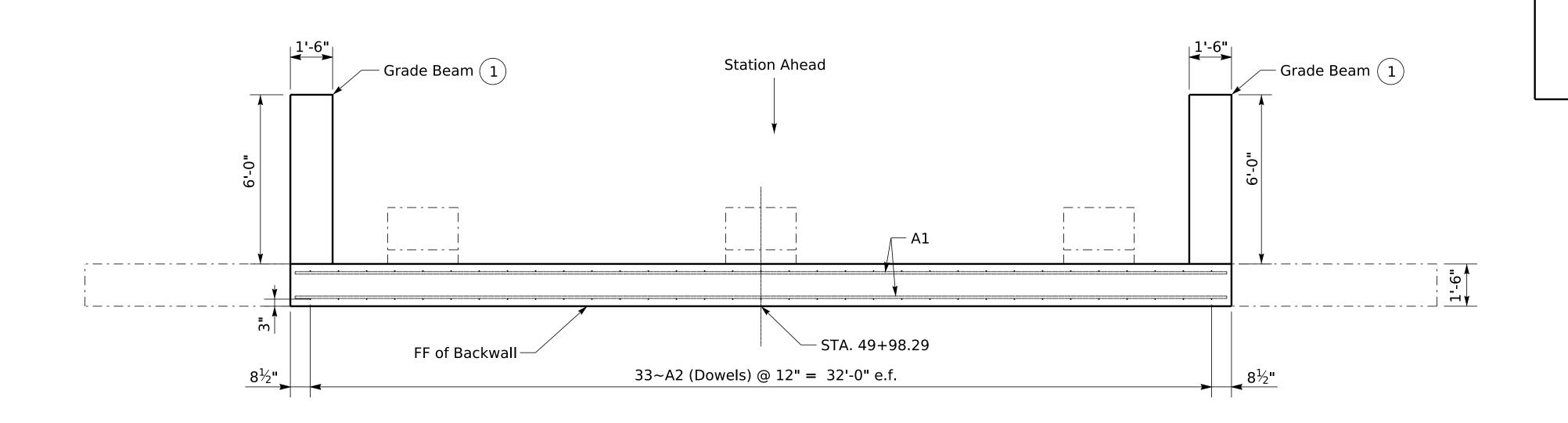
Note: Take care when removing deck to not damage existing steel beams. Any and all damage due to the contractor actions will be repaired by the contractor at their cost. Submit proposed KY P.E. stamped repair plans and calculations for review and approval prior to beginning repairs.



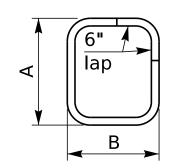


ELEVATION

ABUTMENTS REMOVAL

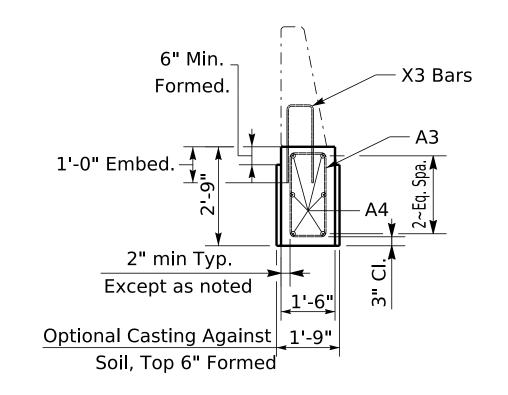


				BILL	OF REINFORCEMENT				
MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	В	C	D
A1e	Str.	4	8	33- 1	Top of Endwall				
A2e	Str.	66	5	2- 7	Dowels				
A3e	14s	18	4	7- 7	Grade Beam	2- 4	1- 2		
A4e	Str.	12	5	6- 10	Grade Beam				

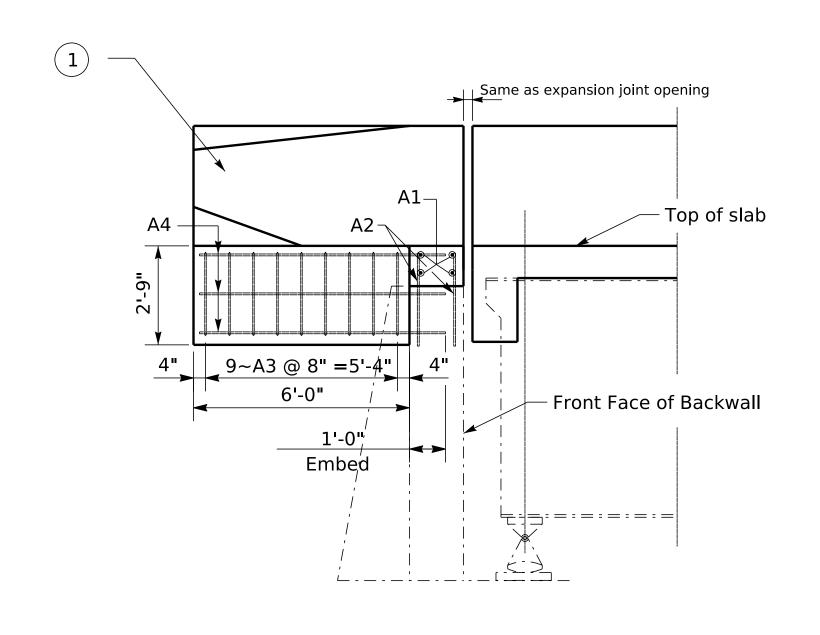


TYPE 14

See Std. Dwg. BHS-010, c.e. (Railing System 40 Inch Single Slope) for additional information of barrier and grade beam construction. Drill and epoxy grout X3 (#4) and A4 bars into existing abutment 12" min. where applicable. All costs incidental to Railing System 40 Inch Single Slope.



GRADE BEAM SECTION



GRADE BEAM ELEVATION

33'-5" A1 Q Existing Bridge ELEVATION

PLAN

Division of
Structural Design

DATE: April 2024

CHECKED BY

DESIGNED BY: N. Cordtz

W. Deaton

DETAILED BY: M. BawiThawng

N. Cordtz

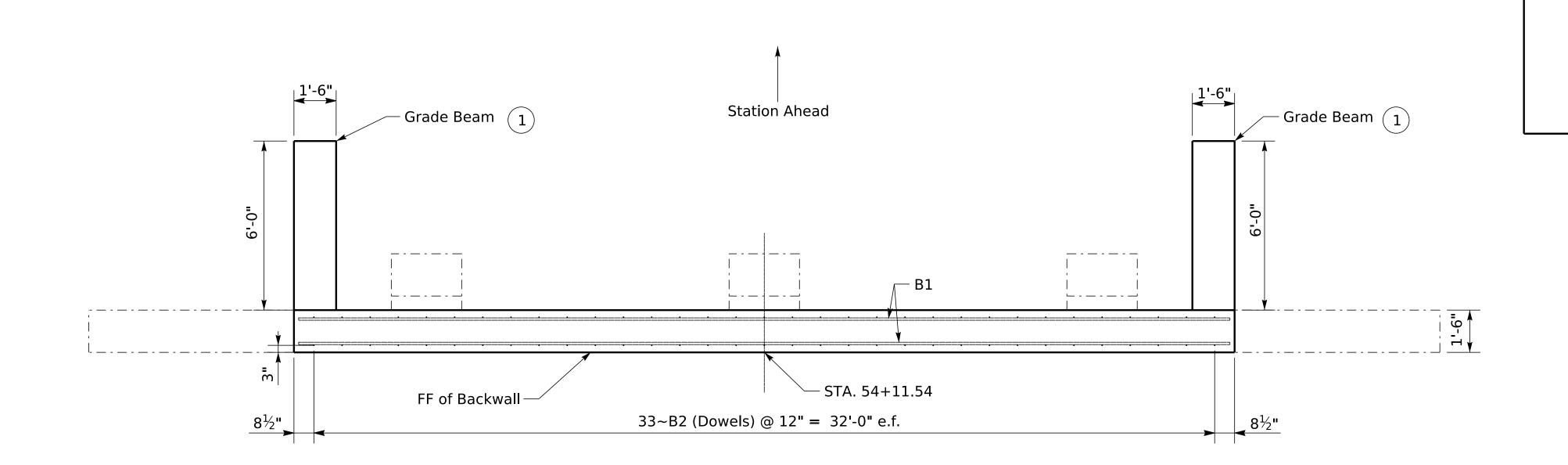
ABUTMENT #1

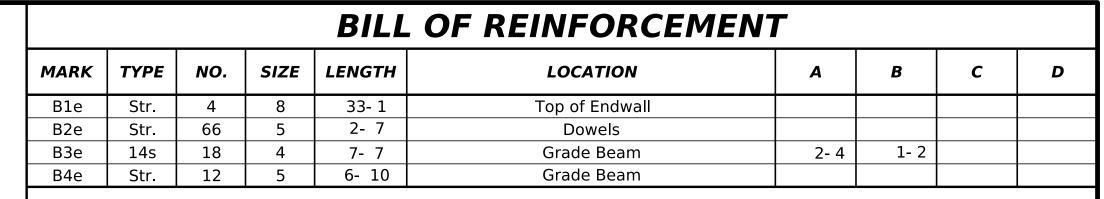
CROSSING

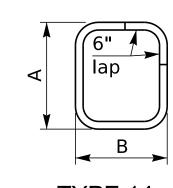
Rough River

ROUTE ITEM NO. COUNTY OF 4-10047 GRAYSON

KY 259 SHEET NO. DRAWING NUMBER 28895

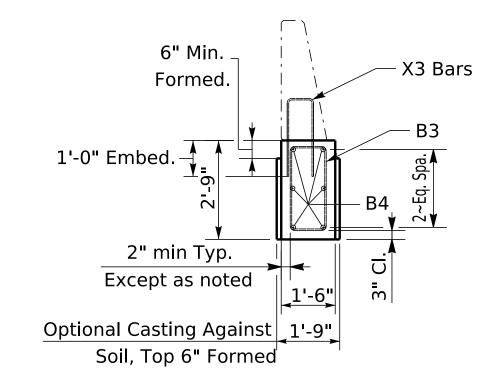




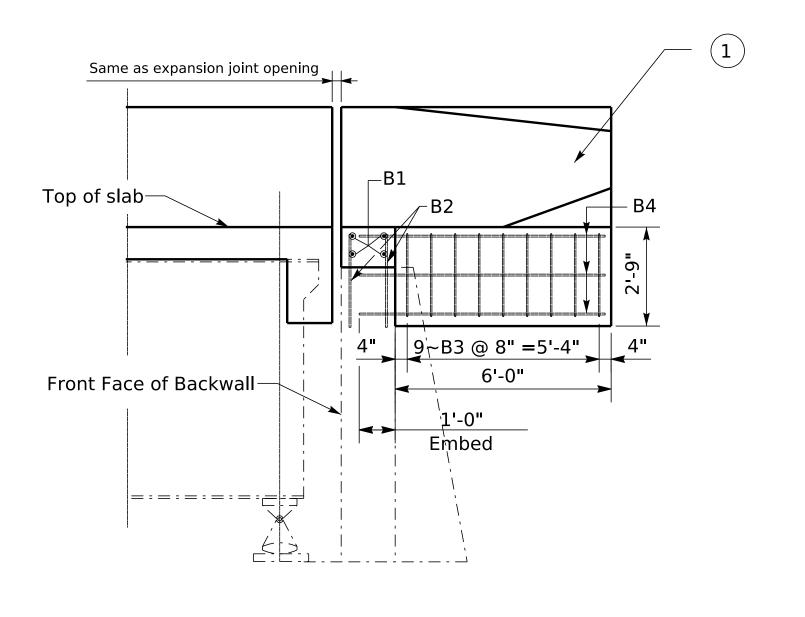


TYPE 14

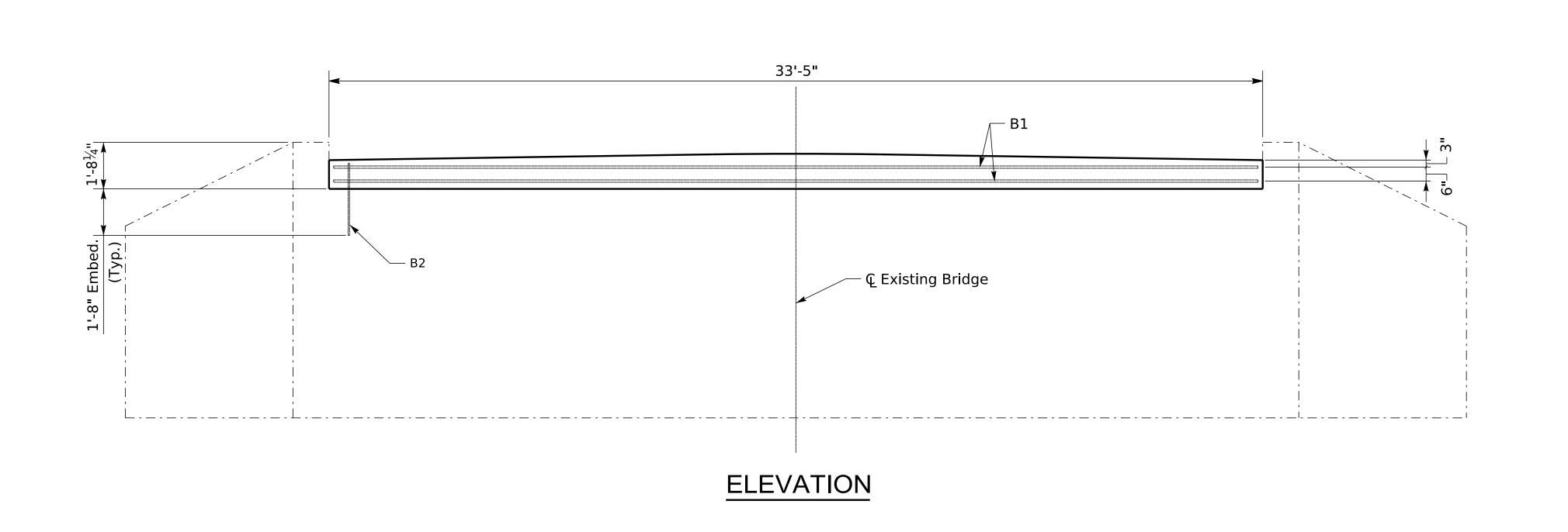
See Std. Dwg. BHS-010, c.e. (Railing System 40 Inch Single Slope) for additional information of barrier and grade beam construction. Drill and epoxy grout X3 (#4) and B4 bars into existing abutment 12" min. where applicable. All costs incidental to Railing System 40 Inch Single Slope.



GRADE BEAM SECTION



GRADE BEAM ELEVATION



PLAN

Division of
Structural Design

DATE: April 2024 CHECKED BY

DESIGNED BY: N. Cordtz W. Deaton

DETAILED BY: M. BawiThawng N. Cordtz

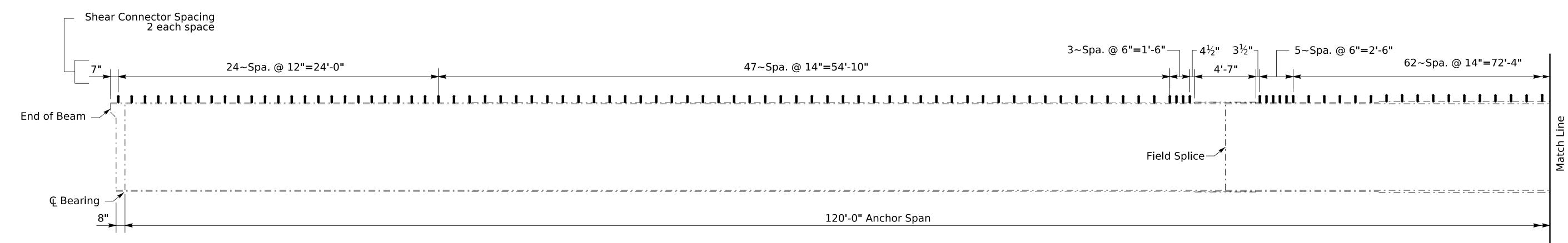
ABUTMENT #2

CROSSING

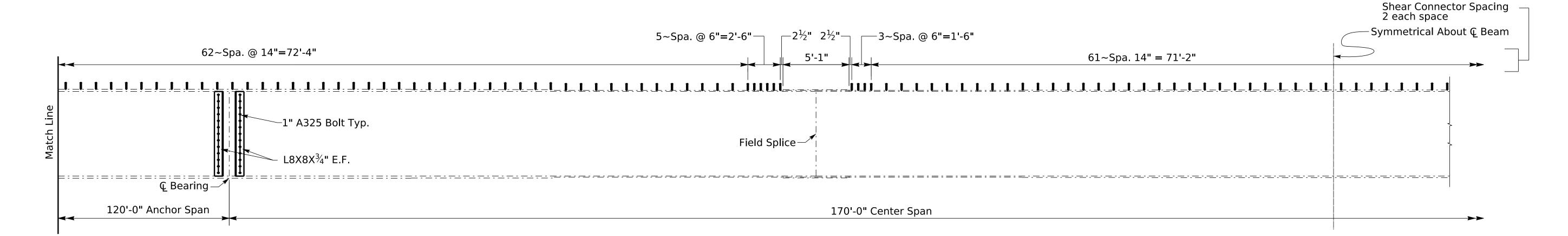
Rough River

ROUTE ITEM NO. COUNTY OF GRAYSON

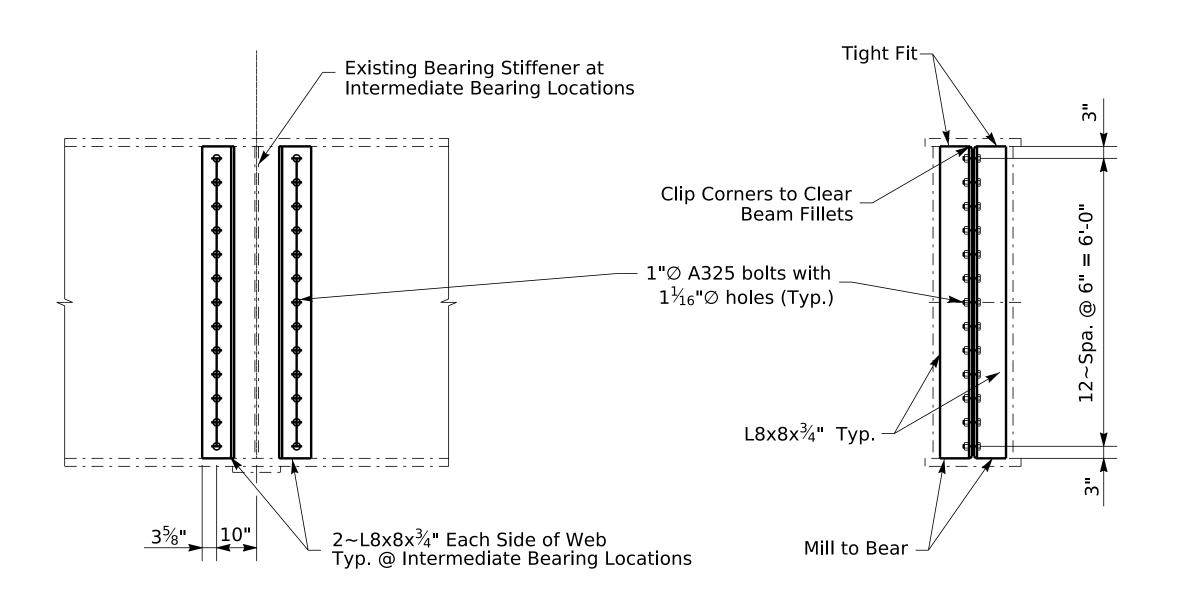
KY 259 SHEET NO. DRAWING NUMBER 28895



HALF ELEVATION GIRDERS 1 THRU 4

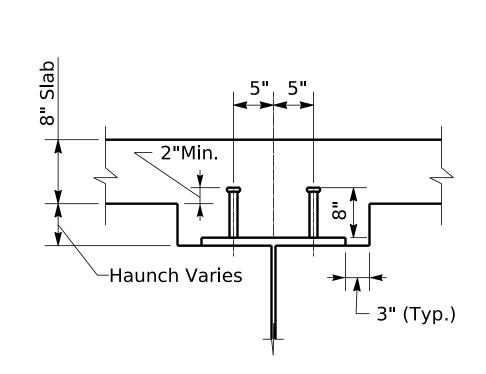


HALF ELEVATION GIRDERS 1 THRU 4



BEARING STIFFENERS: Use A709 Grade 50 steel. Steel is not required to be Charpy V-notch tested. Steel shall be painted with an approved 3 coat system in accordance with Section 607 or be hot dipped galvanized. The unit price bid for Steel Repair is for the pair of angles and all bolts at each truss line on each floor beam. Include in the unit price both angles, bolts and associated hardware, any incidental materials, equipment, and labor required to fabricate, paint, and install in accordance with these plans and specifications.

BEARING STIFFENER



SHEAR CONNECTOR

Use1" \emptyset x 8 $\frac{1}{4}$ " Long Granular or Solid Flux Filled Headed Studs, Automatically End Welded.

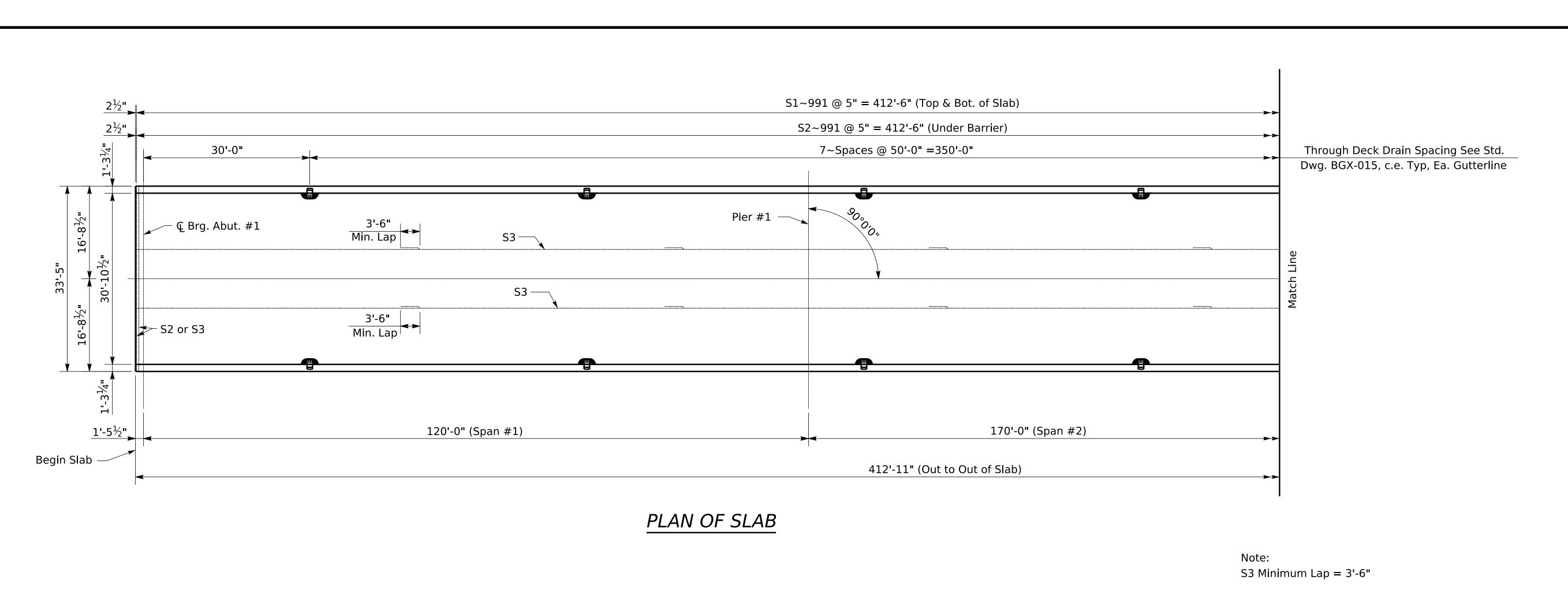
COMMONWEALTH OF KENTUCKY	KEI
DEPARTMENT OF HIGHWAYS	
	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

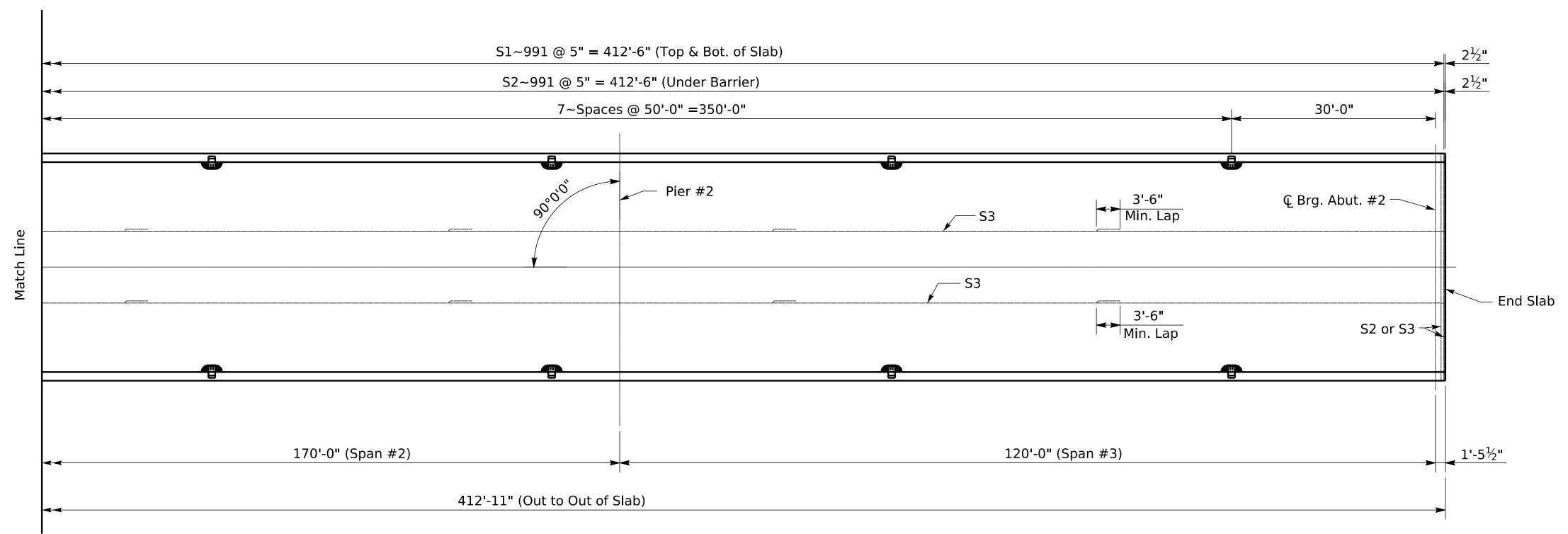
	REVISION
TEAM ENTUCKY	
TRANSPORTATION CABINET	
O/IDINE!	

PREPARED BY
Division of
Structural Designation

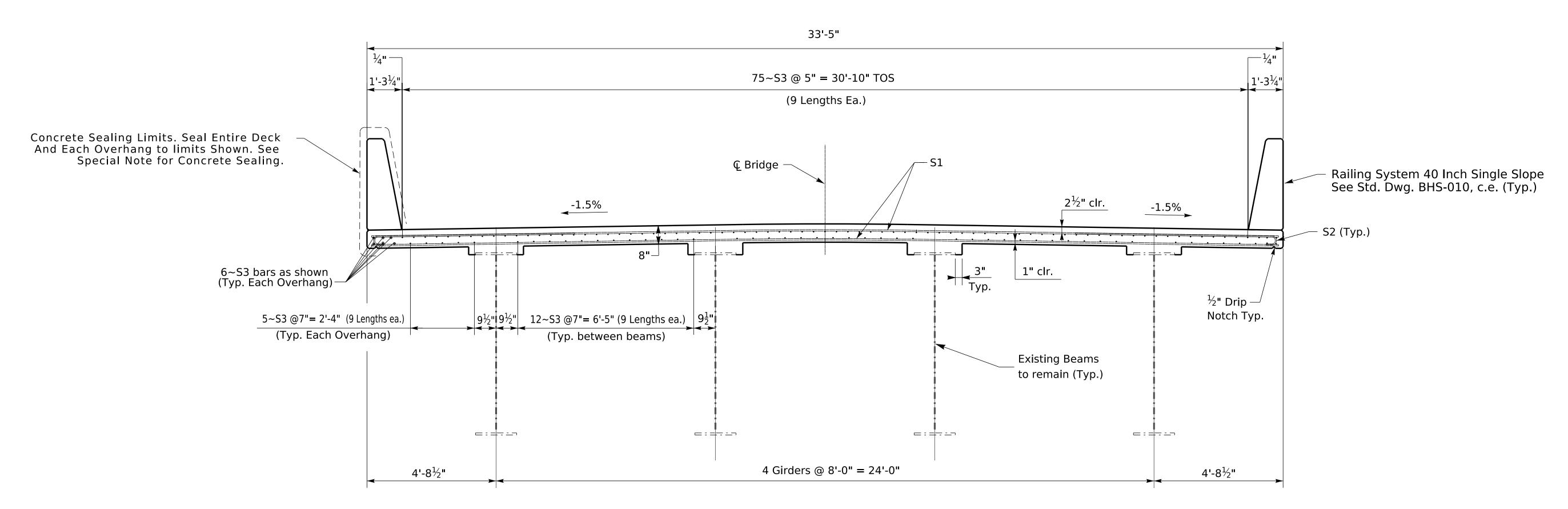
DATE: April 2024	CHECKED BY	
DESIGNED BY: N. Cordtz	W. Deaton	
DETAILED BY: M. BawiThawng	N. Cordtz	

STEEL DETAILS	ROUTE
crossing Rough River	KY 259

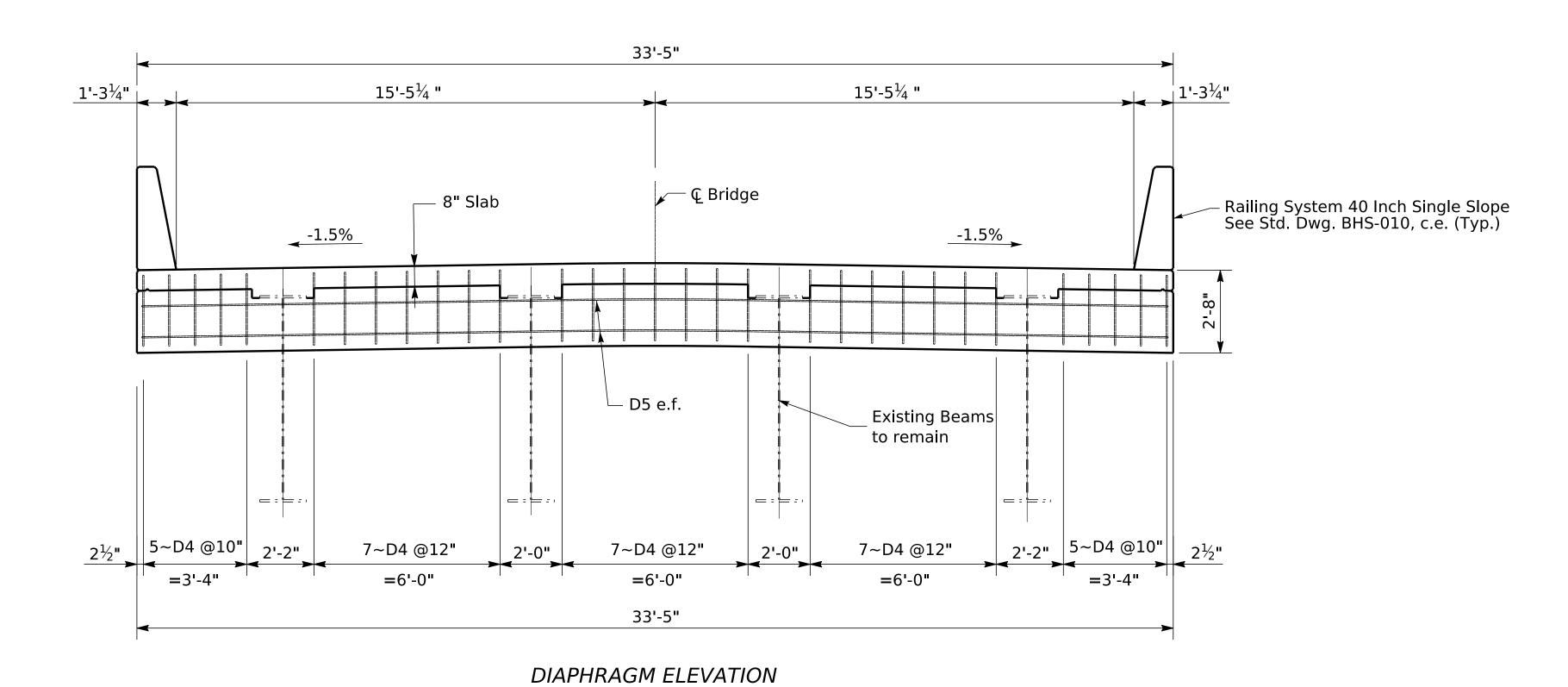


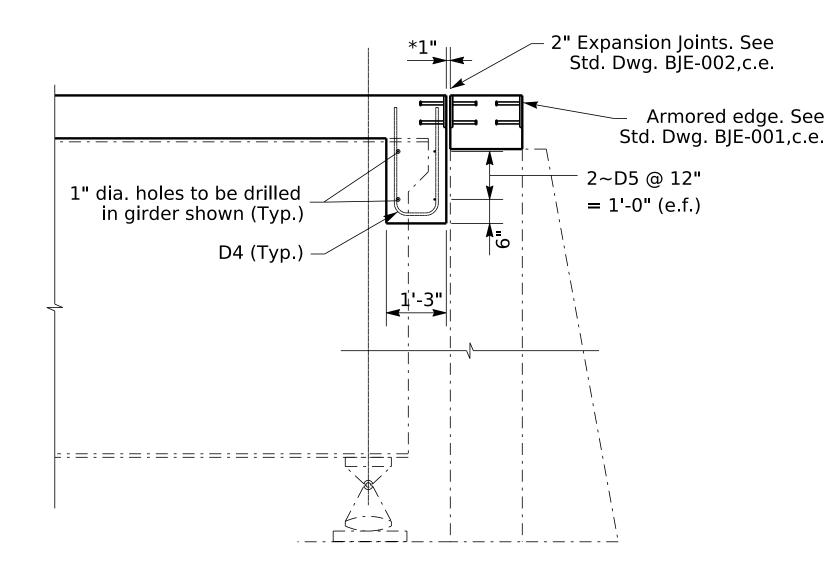


PLAN OF SLAB



TYPICAL SECTION







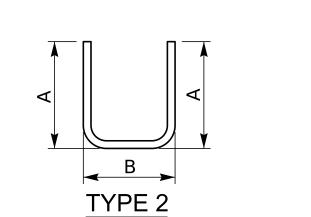
SECTION AT ABUTMENT 1

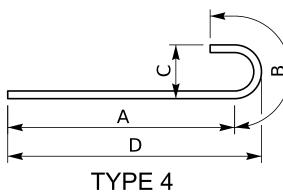
3" Joint opening shown. Adjust as necessary for chosen joint manufacturer requirements and temperature adjustments.

SECTION AT ABUTMENT 2

Note: 1" Joint opening shown. Adjust as necessary for chosen joint manufacturer requirements and temperature adjustments.

				BIL	L OF REINFORCEMENT				
MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	А	В	С	D
S1e	Str.	1982	5	33- 1	Top & Bot. Slab Transverse				
S2e	4	1982	4	5- 6	Slab Overhang	4-10	0- 8	0- 4	5- 0
S3e	Str.	1197	5	49- 0	Slab Longitudinal				
D4e	2	62	5	5- 4	Diaphragm	2- 4	0- 11		
D5e	Str.	8	5	33- 1	Diaphragm				





0° 3.02		
30° 2.34 20° 2.56 10° 2.79 0° 3.02 -10° 3.25 -20° 3.47	50°	1.88
20° 2.56 10° 2.79 0° 3.02 -10° 3.25 -20° 3.47	40°	2.11
10° 2.79 0° 3.02 -10° 3.25 -20° 3.47	30°	2.34
0° 3.02 -10° 3.25 -20° 3.47	20°	2.56
-10° 3.25° -20° 3.47°	10°	2.79
-20° 3.47	0°	3.02
	-10°	3.25
-30° 3.70	-20°	3.47
	-30°	3.70

ROUTE

60°

Joint Setting Table

0.295"

0.522"

0.750"

0.977"

1.204"

1.432"

1.659"

0.289"

0.383"

0.477"

0.570"

0.664" 0.757"

0.851" 0.945"

1.038" 1.132" 1.225" 1.319" 1.413"

1.506"

1.600" 1.693"

Temp | Abutment 1

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAMPORTATION
TRANSPORTATION
TRA

4" Expansion Joints. See Std. Dwg. BJE-002,c.e.

2~D5 @ 12"

= 1'-0" (e.f.)

Armored edge. See — Std. Dwg. BJE-001,c.e.

REVISION

1" dia. holes to be drilled in girder shown (Typ.)

— D4 (Тур.)

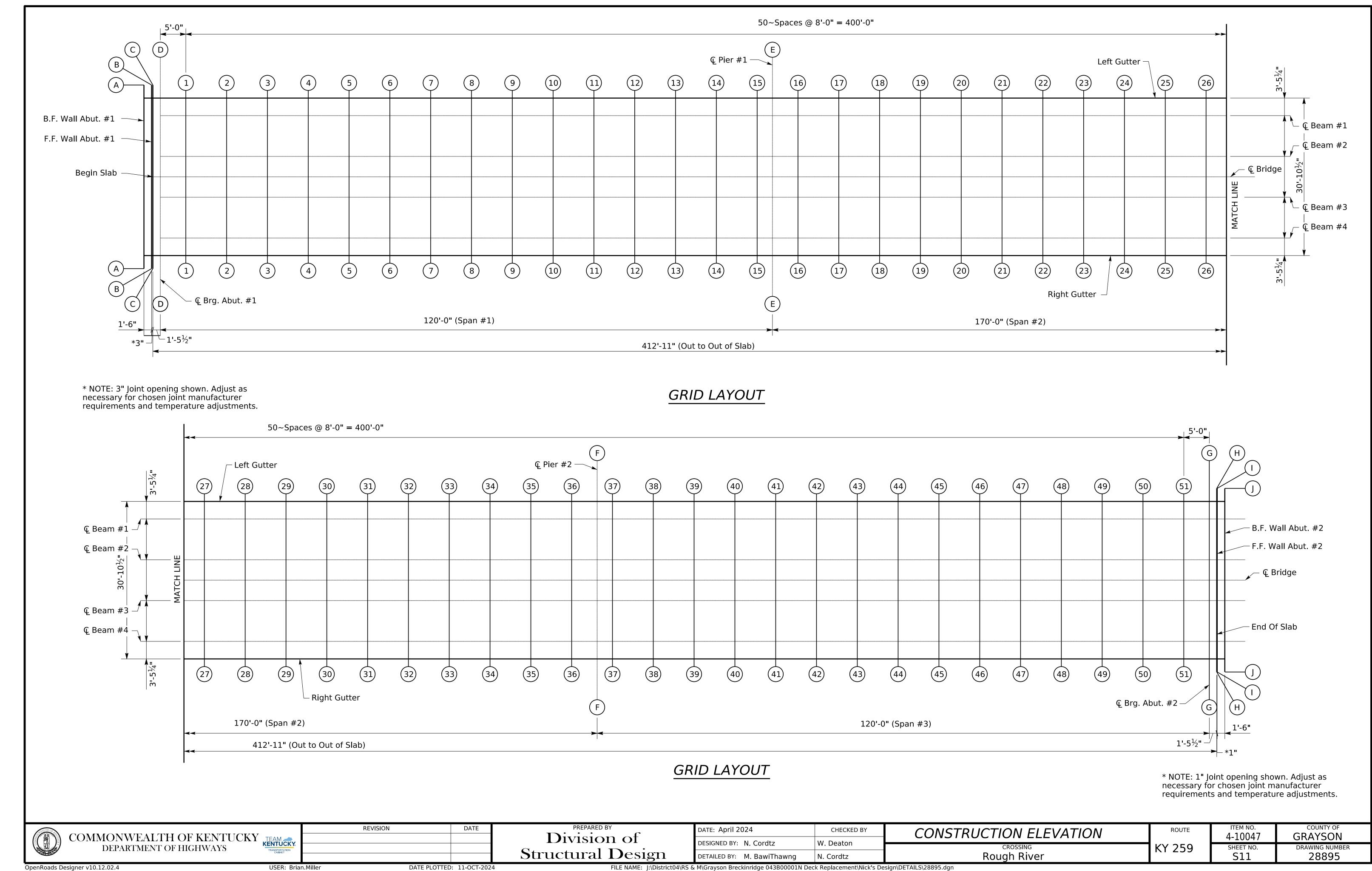
PREPARED BY

Division of Structural Design

DATE: April 2024 CHECKED BY DESIGNED BY: N. Cordtz W. Deaton DETAILED BY: M. BawiThawng N. Cordtz

SUPERSTRUCTURE Rough River

ITEM NO. **4-10047** COUNTY OF **GRAYSON** KY 259 DRAWING NUMBER 28895



CONSTRUCTION ELEVATIONS

	LEFT		BEAM 1			BEAM 2			BRIDGE			BEAM 4		BEAM 5			RIGHT
LOCATION	GUTTER	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	GUTTE
SKEW LN AA	95.291	95.343	BLAM	X	95.463	BLAM		95.501	BLAM	<u> </u>	95.463	BLAM	<u> </u>	95.343	BLAM		95.291
SKEW LN BB	95.306	95.358			95.478			95.516			95.478			95.358			95.306
SKEW LN CC	95.309	95.360			95.480			95.518			95.480			95.360			95.309
SKEW LN DD	95.323	95.375			95.495			95.533			95.495			95.375			95.323
SKEW LN EE	96.523	96.574			96.694			96.732			96.694			96.574			96.523
SKEW LN FF	98.222	98.273			98.393			98.431			98.393			98.273			98.222
SKEW LN GG	99.421	99.473			99.593			99.631			99.593			99.473			99.421
SKEW LN HH	99.436	99.487			99.607			99.645			99.607			99.487			99.436
SKEW LN II	99.437	99.488			99.608			99.646			99.608			99.488			99.437
SKEW LN JJ	99.452	99.503			99.623			99.661			99.623			99.503			99.452
GRID LN 01	95.384	95.436			95.553			95.591			95.553			95.436			95.384
GRID LN 02	95.480	95.531			95.645			95.683			95.645			95.531			95.480
GRID LN 03	95.573	95.624			95.735			95.773			95.735			95.624			95.573
GRID LN 04	95.663 95.750	95.715 95.801			95.823 95.907			95.861 95.945			95.823 95.907			95.715 95.801			95.663 95.750
GRID LN 05 GRID LN 06	95.831	95.883			95.988			96.026			95.988			95.883			95.730
GRID LN 06	95.909	95.863			95.966	 		96.104	 		96.066			95.863	+		95.831
GRID LN 08	95.983	96.034			96.142			96.180	 		96.142			96.034	 		95.983
GRID LN 09	96.054	96.105			96.215			96.253			96.215			96.105			96.054
GRID LN 10	96.123	96.175			96.287			96.325			96.287			96.175			96.123
GRID LN 11	96.192	96.244			96.359			96.397			96.359			96.244			96.192
GRID LN 12	96.263	96.314			96.432			96.470			96.432			96.314			96.263
GRID LN 13	96.335	96.387			96.506			96.544			96.506			96.387			96.335
GRID LN 14	96.411	96.463			96.583			96.621			96.583			96.463			96.411
GRID LN 15	96.491	96.543			96.663			96.701			96.663			96.543			96.491
GRID LN 16	96.576	96.628			96.747			96.785			96.747			96.628			96.576
GRID LN 17	96.667	96.719			96.835			96.873			96.835			96.719			96.667
GRID LN 18	96.763	96.814			96.926			96.964			96.926			96.814			96.763
GRID LN 19	96.862	96.913			97.020			97.058			97.020			96.913			96.862
GRID LN 20	96.962	97.014			97.115			97.153			97.115			97.014			96.962
GRID LN 21 GRID LN 22	97.063 97.162	97.114 97.213			97.210 97.304			97.248 97.342			97.210 97.304			97.114 97.213			97.063 97.162
GRID LN 23	97.258	97.213			97.304			97.433			97.395			97.309			97.102
GRID LN 24	97.349	97.401			97.484			97.522			97.484			97.401			97.349
GRID LN 25	97.436	97.488			97.569			97.607			97.569			97.488			97.436
GRID LN 26	97.518	97.570			97.651			97.689			97.651			97.570			97.518
GRID LN 27	97.596	97.648			97.729			97.767			97.729			97.648			97.596
GRID LN 28	97.669	97.721			97.804			97.842			97.804			97.721			97.669
GRID LN 29	97.737	97.789			97.875			97.913			97.875			97.789			97.737
GRID LN 30	97.802	97.853			97.944			97.982			97.944			97.853			97.802
GRID LN 31	97.862	97.914			98.010			98.048			98.010			97.914			97.862
GRID LN 32	97.922	97.973			98.074			98.112			98.074			97.973			97.922
GRID LN 33	97.981	98.033			98.139			98.177			98.139			98.033			97.981
GRID LN 34	98.042	98.094			98.206			98.244			98.206			98.094			98.042
GRID LN 35	98.107	98.158			98.274			98.312			98.274			98.158			98.107
GRID LN 36	98.176	98.227			98.346			98.384			98.346			98.227			98.176
GRID LN 37 GRID LN 38	98.251 98.331	98.302 98.382			98.422 98.502			98.460 98.540			98.422 98.502			98.302 98.382			98.251 98.331
GRID LN 38	98.331	98.382			98.502			98.540			98.585			98.382			98.331
GRID LN 39	98.502	98.553			98.671	 		98.709	 		98.671			98.553	+		98.502
GRID LN 41	98.591	98.643			98.758			98.796			98.758			98.643			98.591
GRID LN 42	98.682	98.734			98.846			98.884			98.846			98.734			98.682
GRID LN 43	98.773	98.824			98.934			98.972			98.934			98.824			98.773
GRID LN 44	98.862	98.913			99.020			99.058			99.020			98.913			98.862
GRID LN 45	98.948	98.999			99.105			99.143			99.105			98.999			98.948
GRID LN 46	99.030	99.081			99.186			99.224			99.186			99.081			99.030
GRID LN 47	99.108	99.160			99.265			99.303			99.265			99.160			99.108
GRID LN 48	99.181	99.233			99.341			99.379			99.341			99.233			99.181
GRID LN 49	99.251	99.303			99.414			99.452			99.414			99.303			99.251
GRID LN 50	99.318	99.370			99.483			99.521			99.483			99.370			99.318
CDID I N E1	1 00 202 1	00 424	ı		00 551	i		1 00 500 1	1		00 551			00 424	1		00 202

99.589

NOTES FOR ELEVATIONS TAKEN ON PRESTRESSED CONCRETE BEAMS

Take elevations on top of beam at points indicated by the grid layout. The beam elevations are to be read to three decimals, and entered in tables under "Top of Beam" elevations.

Compute dimension "X" as follows: "Construction Elevation" minus" Top of Beam" elevation equals dimension "X". Construction Elevations include camber due to weight of the concrete slab and barrier. Measuring of dimension "X" gives the final check on beam tolerances for camber, beam damage, and errors in erection that produce reverse cambers, sags, and unsightly fascia beams.

For setting templates, measure dimension "X" above top of beams for top of template. Do not set template by elevations.

COUNTY OF

28895

Temporary supports or shoring will not be permitted under the girders when pouring the concrete floor slab or when taking "Top of Beam" elevations.

Construct barrier to roadway grade. Do not add camber to the barrier.

99.551

GRID LN 51

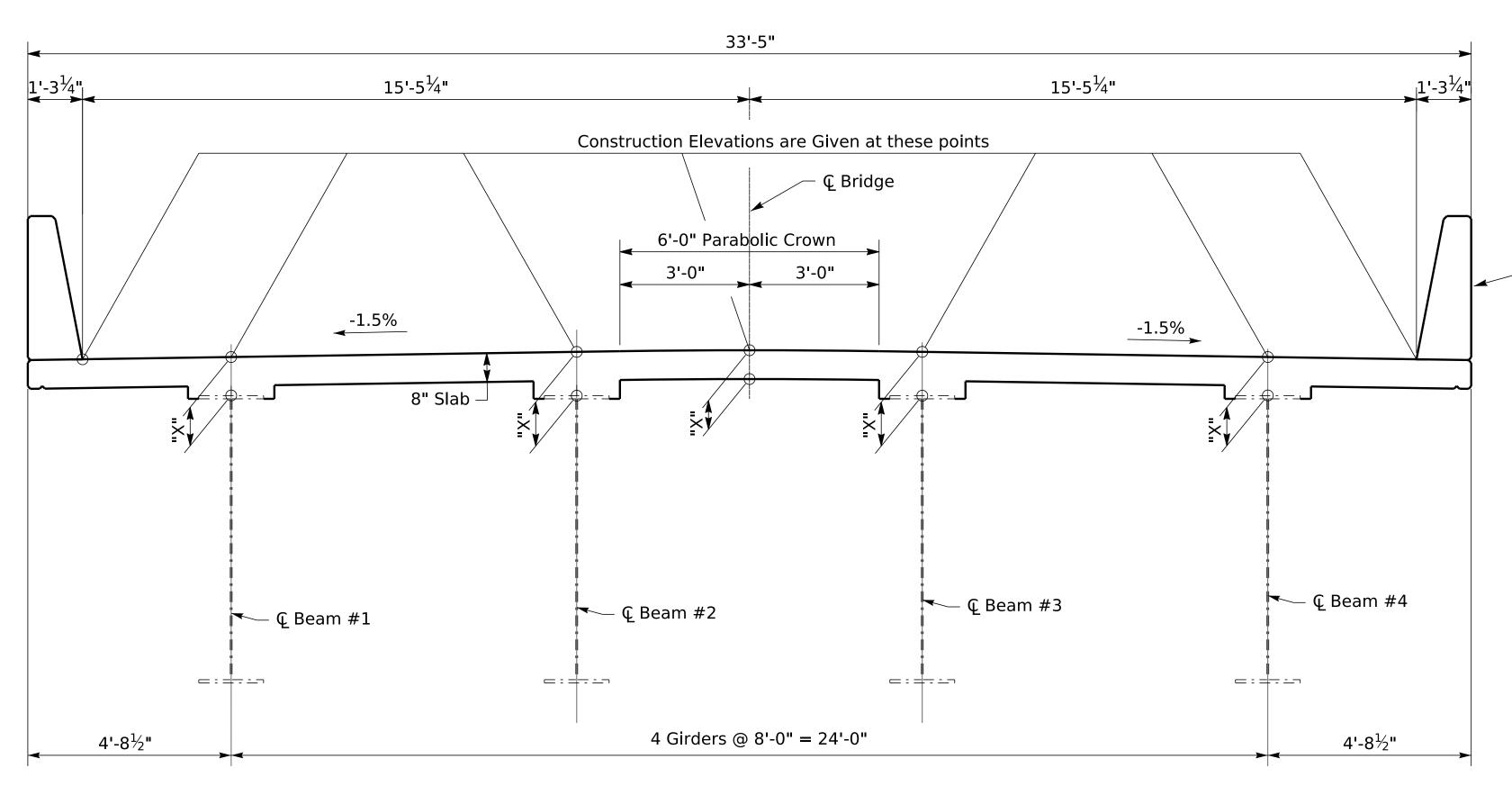
99.382

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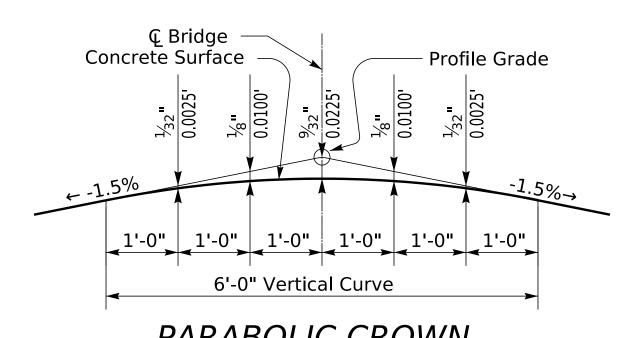
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TYPICAL SECTION



Railing System 40 Inch Single Slope See Std. Dwg. BHS-010, c.e. (Typ.)

PARABOLIC CROWN

ROAD R11-2 (48"x30") BRIDGE CLOSED
1.5 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-4 (60"x30")

17 NORTH M3-4 (24"X12")

2 (ROAD W20-3 (36"x36")

259 M1-5 (30"x24")

18 **SOUTH** M3-2 (24"X12")

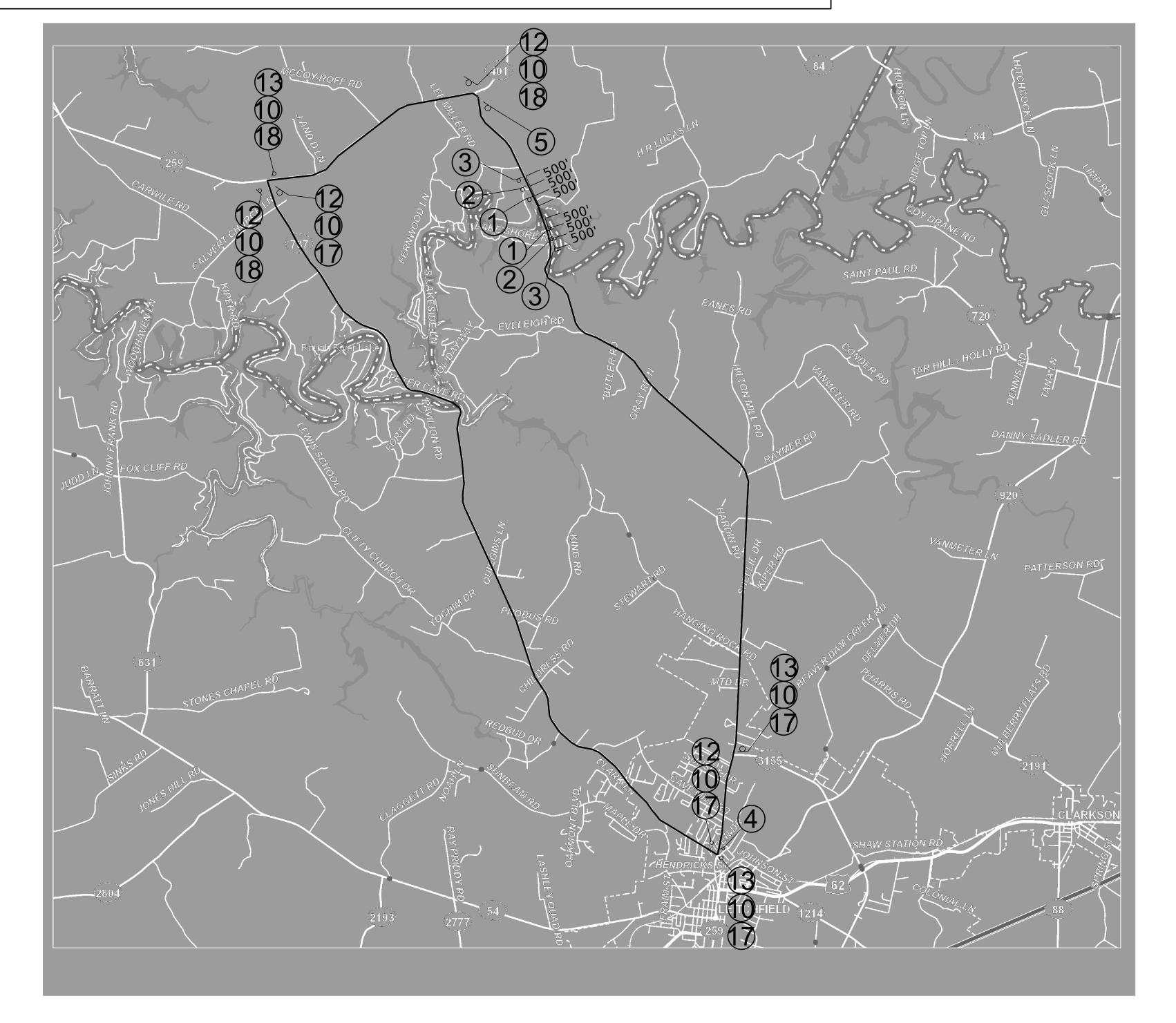
3 (ROAD W20-3 (36"x36")

12 M4-9 (30"x24")

BRIDGE CLOSED
8.0 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-4 (60"x30")

DETOUR M4-9 (30"x24")



REVISION DATE PLOTTED: 11-OCT-2024

PREPARED BY

Division of Structural Design

DATE: April 2024 **DETOUR** CHECKED BY DESIGNED BY: N. Cordtz W. Deaton crossing Rough River N. Cordtz

COUNTY OF GRAYSON ITEM NO. **4-10047** KY 259 DRAWING NUMBER
28895