# **TRANSPORTATION CABINET** DEPARTMENT OF HIGHWAYS LYON COUNTY KY 295 KY 295 OVER LIVINGSTON CREEK STA. 1+89.30

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BID ITEM		Concrete Class "A"	Concrete Class "AA"	Steel Reinforcement, Epoxy Coated	Cyclopean Stone Rip Rap	Structure Granular Backfill	Concrete Sealing	PPC I-Beam HN 54 49	Piles - Steel HP 14 × 89	Test Piles	Armored Edge for Concrete	Rail System Single Slope 40 Inch	Pile Points 14 Inch	Deck Drains	Foundation Preparation	Mobilization for Concrete Surf Treatment							
UNIT		C.Y.	C.Y.	LBS.	Tons	C.Y.	S.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Each	Each	L.S.	L.S.							
Integral End Bent	#1	37.6	24.0	4175	221	245.2	494		362	63			7										
Integral End Bent	#2	37.6	24.0	4175	213	245.2	494		441	76			7										
struc																							
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Superstruct	ure		113.4	25024			8476	546			48.0	276.0		12	1	1							
BRIDGE TO	TALS	75.2	161.4	33374	434	490.4	9464	546	803	139	48.0	276.0	14	12	1	1							

COMMONWEALTH OF KENTLICKY TEAM .	REVISION	DATE	PREPARED BY	DATE: October 2024	CHECKED BY	
COMMONWEALTH OF KENTUCKY			Division of	DESIGNED BY: K. Ee	J. Van Zee	
DEPARTMENT OF HIGHWAYS			$C_{1}$ $(1D)$	DESIGNED BT. K. EE	J. Vali Zee	CROSSING
			Structural Design	DETAILED BY: M. BawiThawng	K. Ee	Livingston (
nRoads Designer v10.12.02.4 USER: \$\$:	SUSER\$\$\$\$ DATE PLOTTE	D: SSSSDATESSS	s FILE NAME: \$\$\$\$design\$file	\$specification\$\$\$\$		

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	BGX-006-11 BGX-012-0. BGX-015-0. BJE-001-14 BFS-011-0. BGX-026 BSD-009	STANDARD DRAWINGS         0       Stencils for Structures         2       Geotechnical Legend         4       Bridge Drains         4       Armored Edges         4       HP14x89 Steel Pile         Air Vents       PPC I-Beam HN48 and HN54 Diaphragm Details
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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 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%.

FUTURE WEARING SURFACE: This structure is designed for a 15 PSF future wearing surface load.

Concrete Class "A"	~	f'c = 3500 psl
Concrete Class "AA"	~	f'c = 4000 psi
Steel Reinforcement	~	Fy = 60,000 psi
Steel Piling	~	Fy = 50,000 psi
	Concrete Class "AA" Steel Reinforcement	Concrete Class "AA" ~ Steel Reinforcement ~

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

WIND LOAD: This bridge is designed for a wind load based on a wind velocity of 100 mph.

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.

FOUNDATION DATA: See Foundation Layout Sheet.

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.

PILE POINTS: Provide pile points for all point bearing piles. Ensure pile points are in accordance with Section 604 of the Specifications and of the type as shown on the Foundation Layout Sheet.

SLOPE PROTECTION: Slope protection will be required at the bridge meeting the requirements of Sections 703 & 805 of the Standard Specifications for Road and Bridge Construction, current edition. Place a Geotextile Fabric Class 1 (Slope Protection), in accordance with Sections 214 & 843 of the Standard Specifications for Road and Bridge Construction, current edition, between the embankment and the slope protection. Neglect any outdated references to fabric "Type" in Section 214 of the Standard Specifications.

# **GENERAL NOTES**

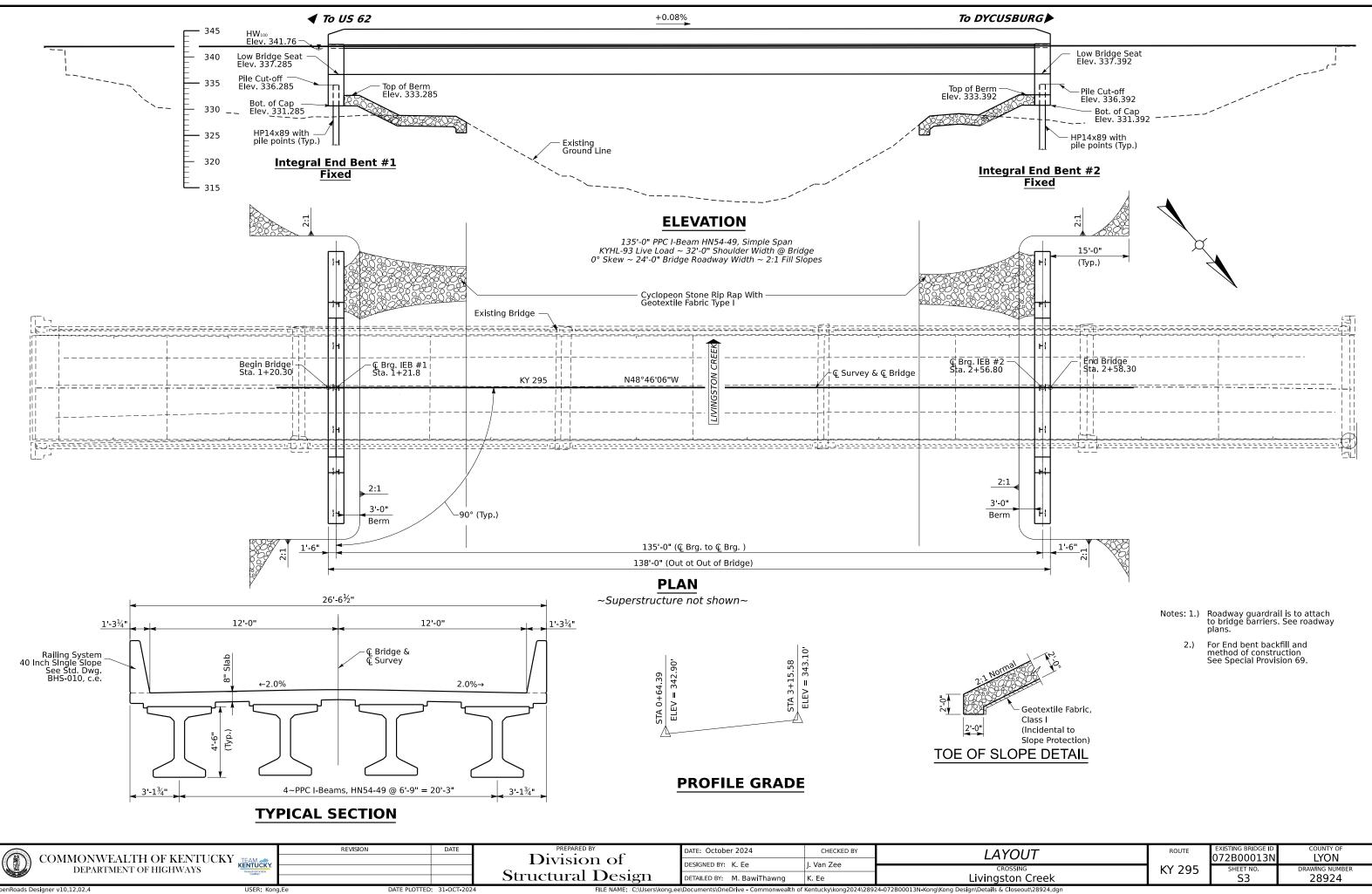
CONCRETE SEALER: All areas detailed in the specifications as requiring masonry coating shall be sealed in accordance with the special note for concrete sealing. The superstructure deck, barriers and overhangs shall also be sealed as shown herein these plans. Concrete surfaces (except the deck) shall receive the ordinary surface finish as described in section 601.03.18(A) prior to being sealed

MASONRY COATING: Contrary to the Specifications, do not apply Masonry Coating. Apply Concrete Sealing in place of Masonry Coating as noted in CONCRETE SEALER note.

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	REVISION	DATE	Division of	DATE: October 2024 DESIGNED BY: K. Ee DETAILED BY: M. BawiThawng	CHECKED BY J. Van Zee K. Ee	GENERAL NOTES CROSSING Livingston Creek		EXISTING BRIDGE ID 072B00013N SHEET NO. S2	COUNTY OF LYON DRAWING NUMBER 28924
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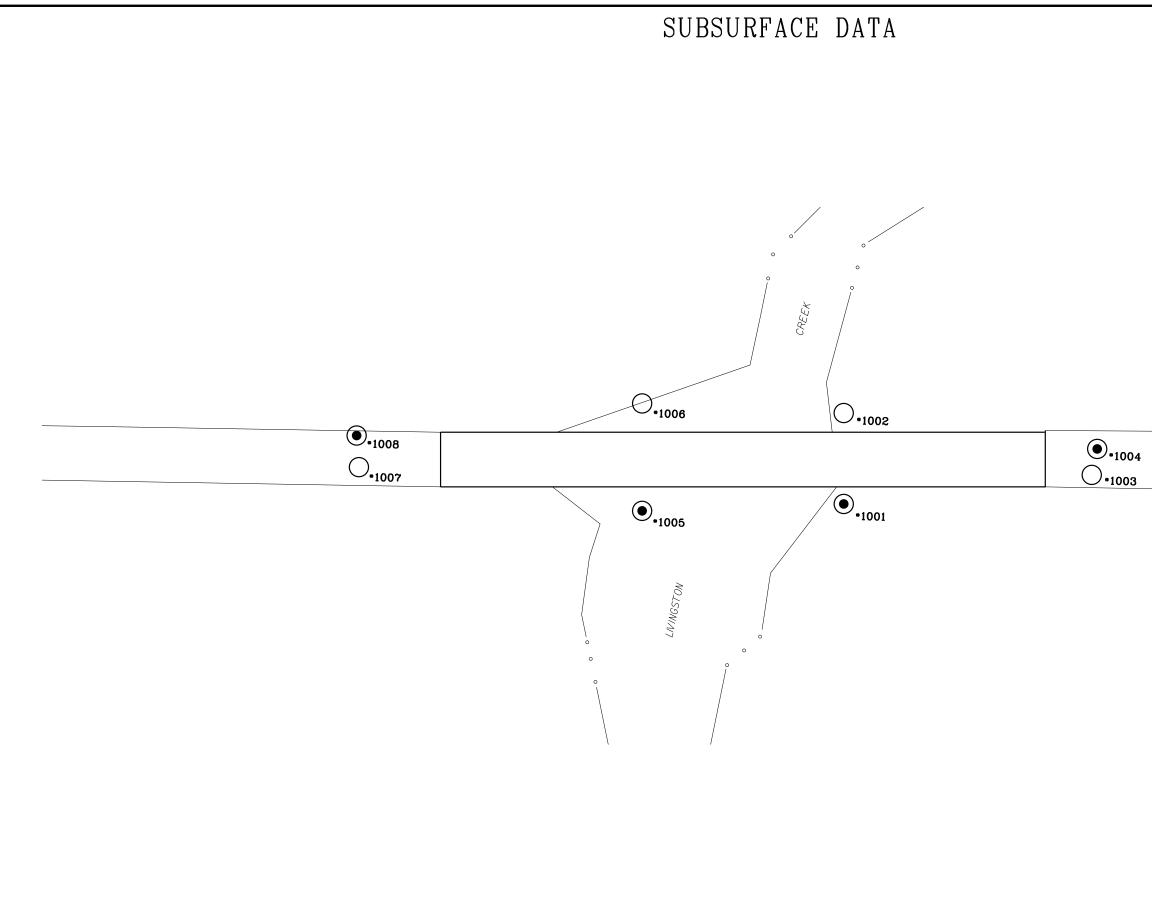
in the preparation of these plans:						
bet.	between					
b.f.	Back Face					
BOF	Bottom of Footing					
BOS	Bottom of Slab					
bot.	Bottom					
Brg.	Bearing					
C to C	Center to Center					
c.e.	Current Edition					
C.Y.	Cubic Yards					
Chd.	Chord					
CL	Center Line					
Clr.	Clear					
Conc.	Concrete					
Cu.	Cubic					
Dwg.	Drawing					
e f	Each Face					
El.	Elevation					
eq.	Equal					
Est.	Estimate					
Ext.	Exterior					
F to F	Face to Face					
f.f.	Front Face					
f.s.	Far Side					
fr.	Front					
ft.						
I.D.	Feet Inside Diameter					
in.	Inch					
Int.	Interior					
L	Left					
LBS						
	Low Bridge Seat Pounds					
LBS. M	Meter					
MPH	Miles Per Hour					
n.s.	Near Side					
O.D.	Outside Diameter					
Opp.	Opposite					
PC	Point of Curvature					
Perp.	Perpendicular					
PI	Point of Intersection					
PPC	Precast Prestressed Concrete					
PPCDU	Precast Prestressed Deck Unit					
PSI	Pounds per Square Inch					
PT	Point of Tangency					
R	Radius					
R	Right					
RCBC	Reinforced Concrete Box Culvert					
RCDG	Reinforced Concrete Deck Girder					
Req'd	Required					
RR	Railroad					
Shld.	Shoulder					
spa.	Spaces					
Sta.	Station					
Std.	Standard					
Str.	Straight					
Tan	Tangent					
Thru	Through					
TOF	Top of Footing					
TOS	Top of Slab					
Tot.	Total					
Тур.	Typical					
Vert.	Vertical					
W.P.	Working Point					
Yd.	Yard					

The following abbreviations may have been used the proparation of these n



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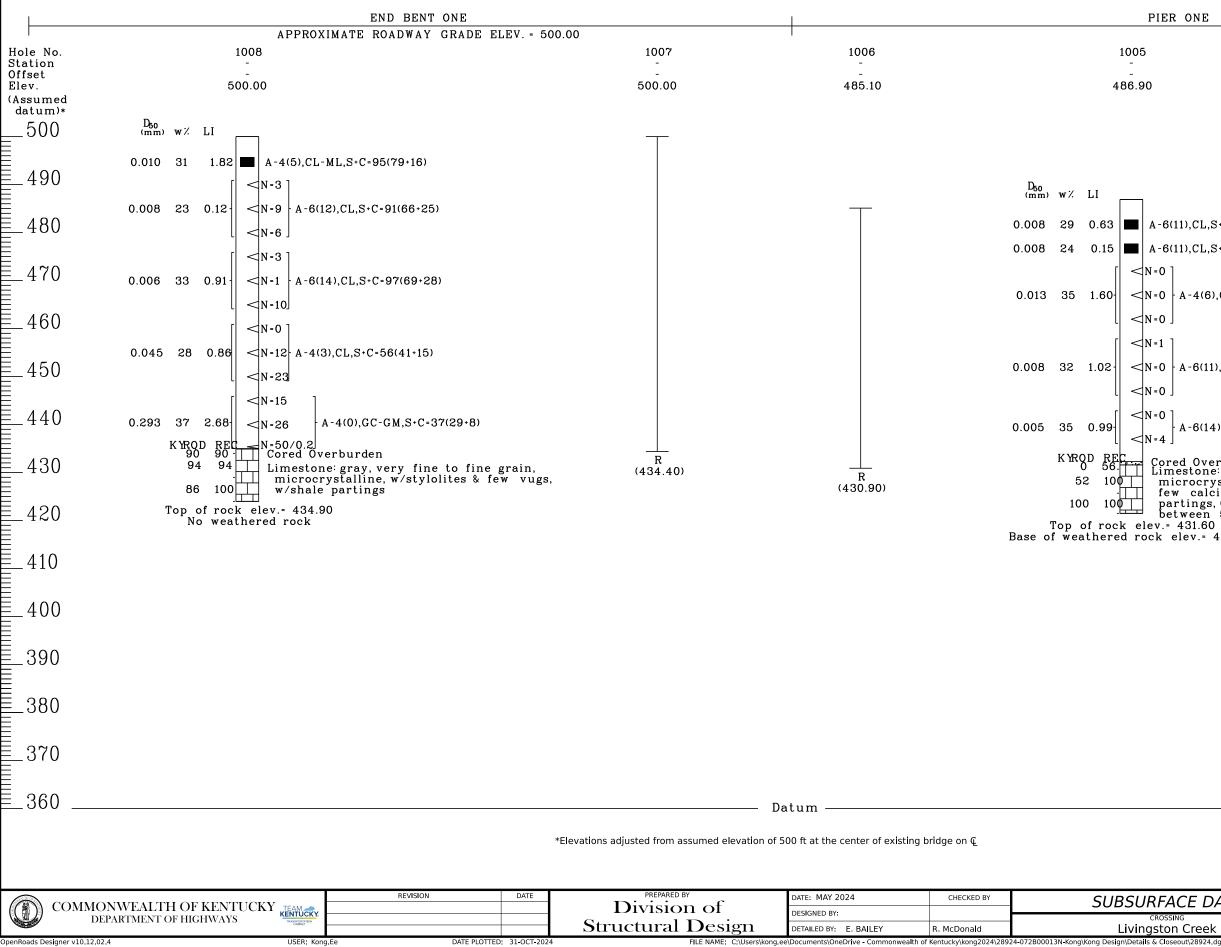


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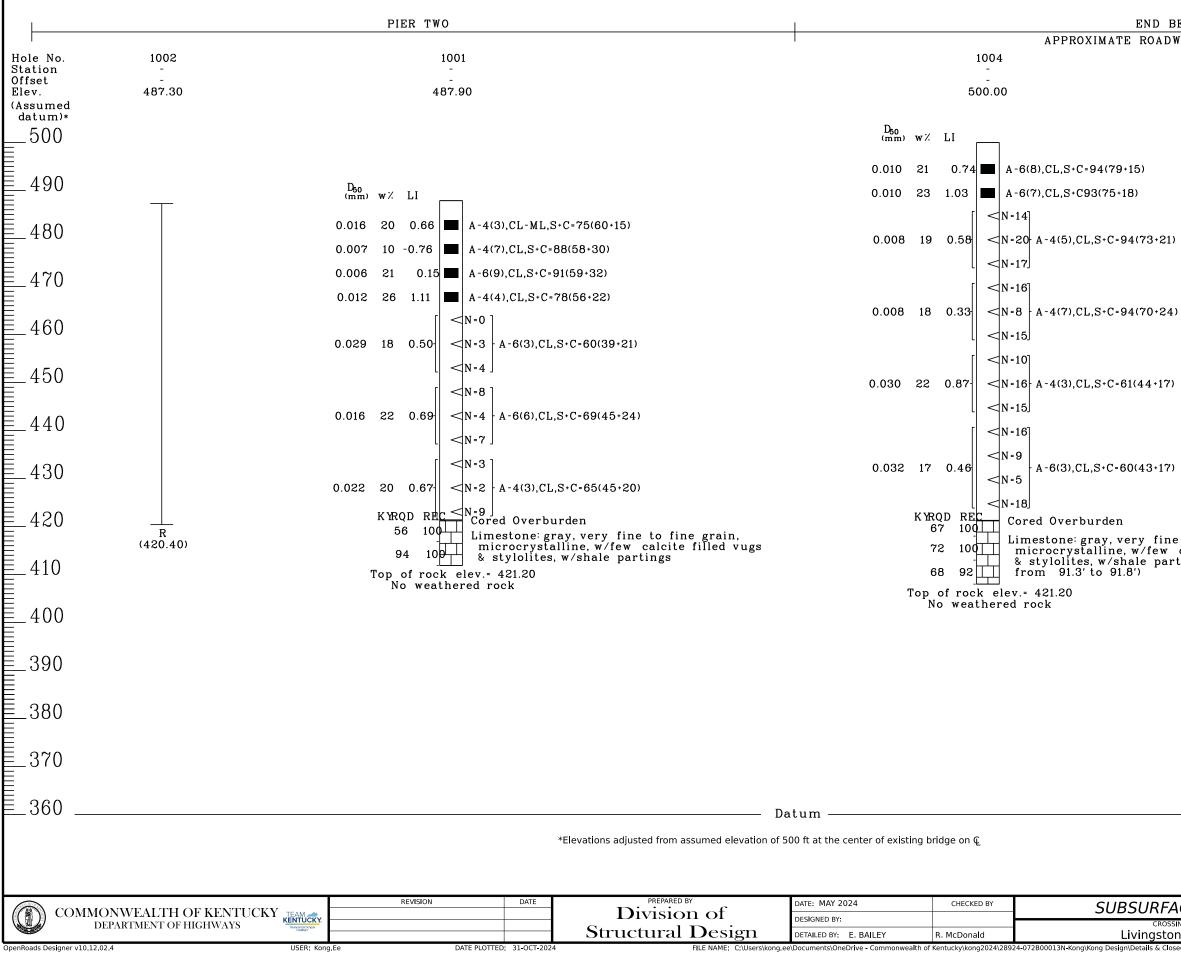


OpenRoads Designer v10.12.02.4

### Profile Scale: Vertical 1'' = 10'Horizontal not to scale

			500
			490_
(11),CL,S+C=97(76+21) (11),CL,S+C=81(49+32)			480
A-4(6),CL,S+C=79(60+19)			470_
			460_
- A-6(11),CL,S+C=92(68+24)	)		450_
- A-6(14),CL,S+C=88(51+37)	)		440_
ed Overburden nestone gray, very fine icrocrystalline & cryst	430_		
w calcite filled vugs, v rtings, (calcite filled, h tween 55.3' & 61.2' w/li 431.60 elev.= 430.40	ealed verti mited flou	cal fracture rite)	• 420_
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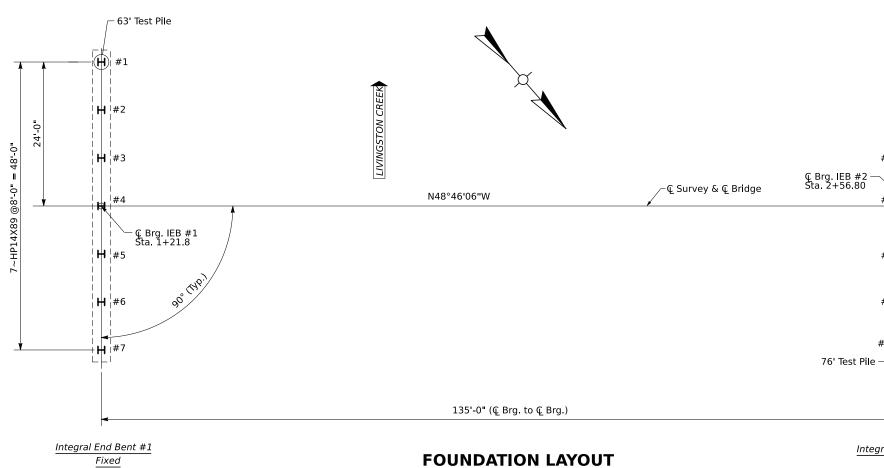
# SUBSURFACE DATA



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	T		500
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)			450
			440
)			430_
e to fine grain,	 R (421.60)		420
calcite filled vugs tings (vuggy zone			410
			400
			390
			380
			370
			360
		EXISTING BRIDGE ID	S-019-2024 county of
ACE DATA	ROUTE	072B00013N SHEET NO.	LYON DRAWING NUMBER

ACE DATA	ROUTE	072B00013N	
n Creek	KY 295	SHEET NO. <b>S6</b>	DRAWING NUMBER 28924
seout\28924 dan			

<u></u>				
PIL	-E RECORI	) for poil	NT BEARING	G PILES
Pile No.	Pile Cut-off Elevation	Pile Length In Place	Point of Pile Elevation As Driven	Design Axial Load
	FEET	FEET	FEET	TONS
		Integral End B	Bent #1	
1	336.285			118
2	336.285			118
3	336.285			118
4	336.285			118
5	336.285			118
6	336.285			118
7	336.285			118



Note: Sheeting, Shoring, Cofferdam and/or a dewatering methods may be necessary for construction of the substructures.

# **Field Data**

For each pile, the Project Engineer shall record the following on this sheet: Pile Length in Place and Point of Pile Elevations as Driven.

Submit this record to:

3rd. Floor East 200 Mero Street Frankfort, KY 40622

This pile record does not replace other pile records the Project Engineer is required to keep and submit.

Use HP 14x89 in accordance with BPS-011, c.e.

## **Definitions of Terms**

PILE CUT-OFF ELEVATION: Elevation of the top of pile in the finished structure.

PILE LENGTH IN PLACE: Actual pile length below the Pile Cut- Off Elevation in the finished structure.

PILE TIP ELEVATION AS DRIVEN: Actual point of pile elevation in the finished structure.

DESIGN AXIAL LOAD: Load carried by each pile as estimated from structural design calculations for Factored LRFD Loadings.

CALCULATED FIELD BEARING: Contrary to Section 604.03.07 of the Standard Specifications, in place bearing values are not required for piles bearing on rock when driven to practical refusal.

REVISION

### **Driving Criteria**

DRIVING CRITERIA: Drive poing bearing piles to practical refusal.

Division of

Structural Design

PRACTICAL REFUSAL (Case 1): Drive point bearing piles to practical refusal. For this project minimum blow requirements are reached after total penetration becomes 1/4" or less for 5 consecutive blows, practical refusal is obtained after the pile is struck an additional 5 blows with total penetration of 1/4 inch or less. Advance the production additional 5 blows with total penetration of 1/4 inch of less. Advance the production piling to the driving resistances specified above and to the depths determined by test pile(s) and subsurface data sheet(s). Immediately cease driving operations if the pile visibly yields or becomes damaged during driving. If hard driving is encountered because of dense strata or an obstruction, such as a boulder before the pile is advanced to the depth anticipated, the Engineer will determine if more blows than the average driving resistance specified for practical refusal is required to further advance the pile. Drive additional encounter Drive additional production and test piles if directed by the Engineer.

HAMMER CRITERIA: A hammer with a rated energy between 45 and 70 kip-ft will be required to drive the H-piles to practical refusal without encountering excessive blow counts or damaging the piles. The contractor shall submit the proposed pile driving system to the Department for approval prior to the installation of the first pile. Approval of the pile driving system by the Engineer will be subject to satisfactory field performance of the pile driving procedures.

DATE: October 2024

DESIGNED BY: K. Ee

DETAILED BY: M. BawiThawng

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

OpenRoads Designer v10.12.02.4

DATE PLOTTED: 31-OCT-2024

DATE

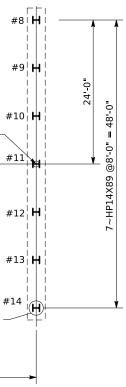
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CHECKED BY

I. Van Zee

K. Ee

PII	LE RECORI	) FOR POIN	NT BEARING	G PILES					
Pile No.	Pile Cut-off Elevation	Pile Length In Place	Point of Pile Elevation As Driven	Design Axial Load					
	FEET	FEET	FEET	TONS					
	Integral End Bent #2								
8	336.392			118					
9	336.392			118					
10	336.392			118					
11	336.392			118					
12	336.392			118					
13	336.392			118					
14	336.392			118					





Kentucky Transportation Cabinet Division of Structural Design

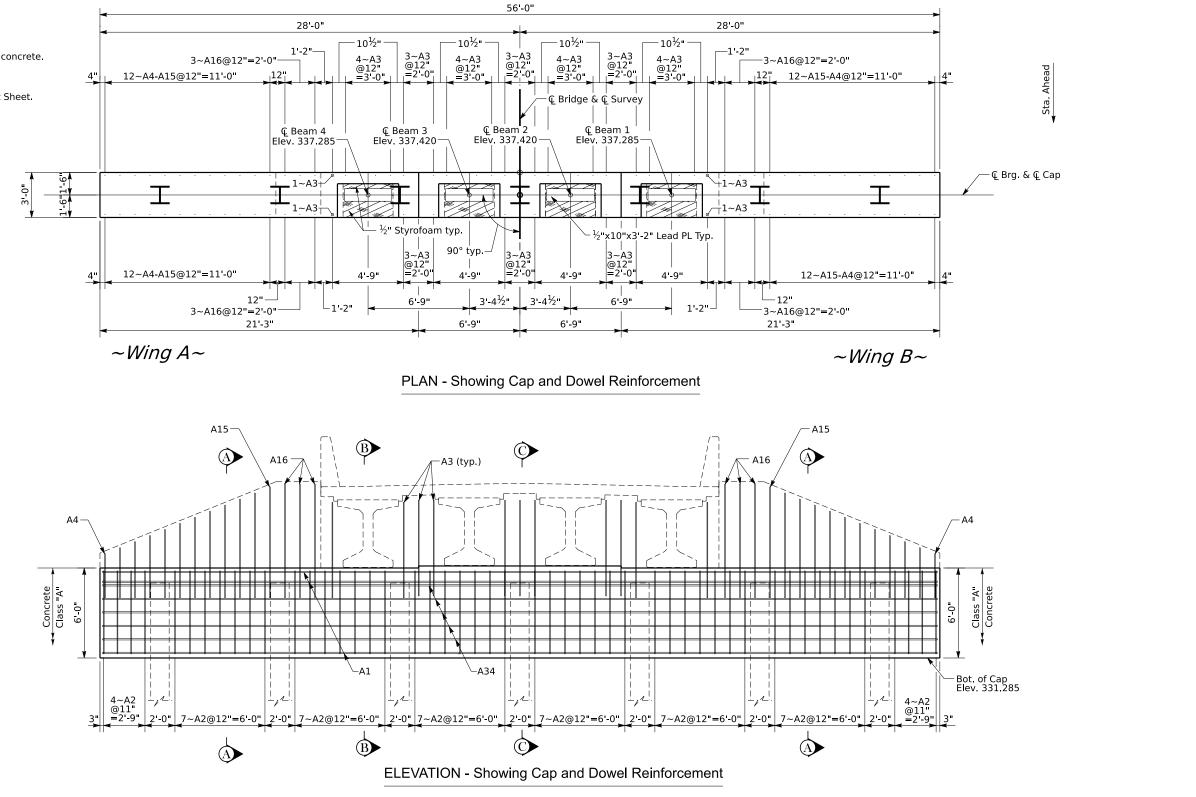
		072B00013N	LYON
CROSSING Livingston Creek	KY 295	SHEET NO. S7	DRAWING NUMBER 28924



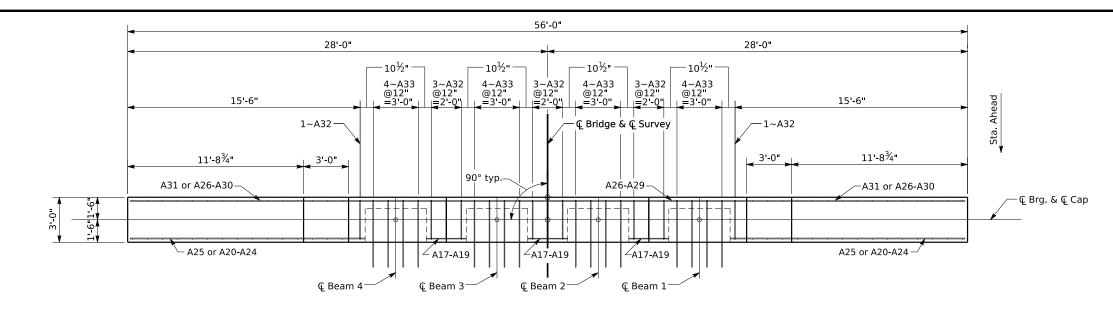
Beam elevations are given at the top of concrete.

Place beams before backfilling.

For pile locations see Foundation Layout Sheet.

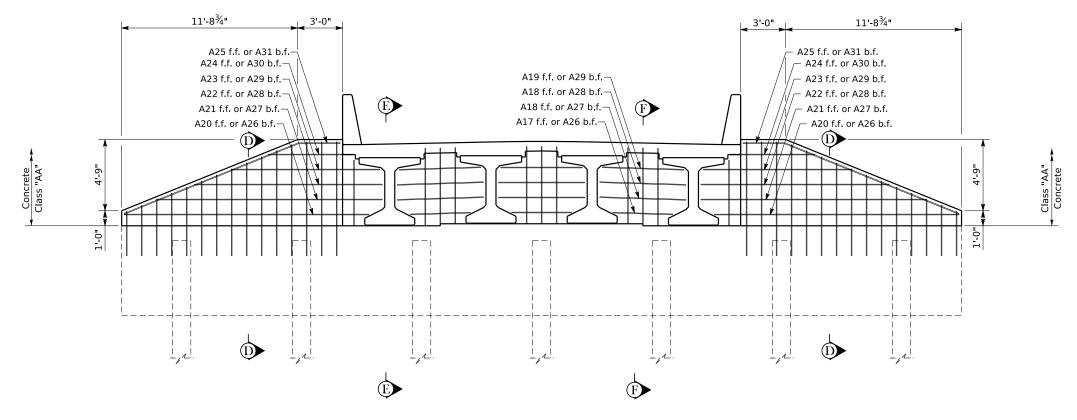


	REVISION DATE	PREPARED BY	DATE: OCTOBER 2024	CHECKED BY	Internal End Dent #1	BOUTE	EXISTING BRIDGE ID	COUNTY OF
$\langle \langle \mathbf{K} \rangle \rangle$ COMMONWEALTH OF KENTUCKY $\langle \mathbf{K} \rangle$		Division of			Integral End Bent #1		072B00013N	LYON
			DESIGNED BY: K. Ee	J. Van Zee	CROSSING		SHEET NO.	DRAWING NUMBER
DEPARTMENT OF HIGHWAYS		Structural Design		1. 1 (		KI 295	CO.	
		Su uctur al Design	DETAILED BY: K. Ee	J. Van Zee	LIVINGSTON CREEK		58	28924
DeenBoads Designer v10 12 02 4 UISEB Ko	Ing Fe DATE PLOTTED: 31-OCT-20	24 EILE NAME: C:\Users\kong e	Documents\OneDrive - Commonwealth or	f Kentucky/kong2024/2892	24-072B00013N-Kong/Kong Design/Details & Closeout/28924.dan			



~Wing A~

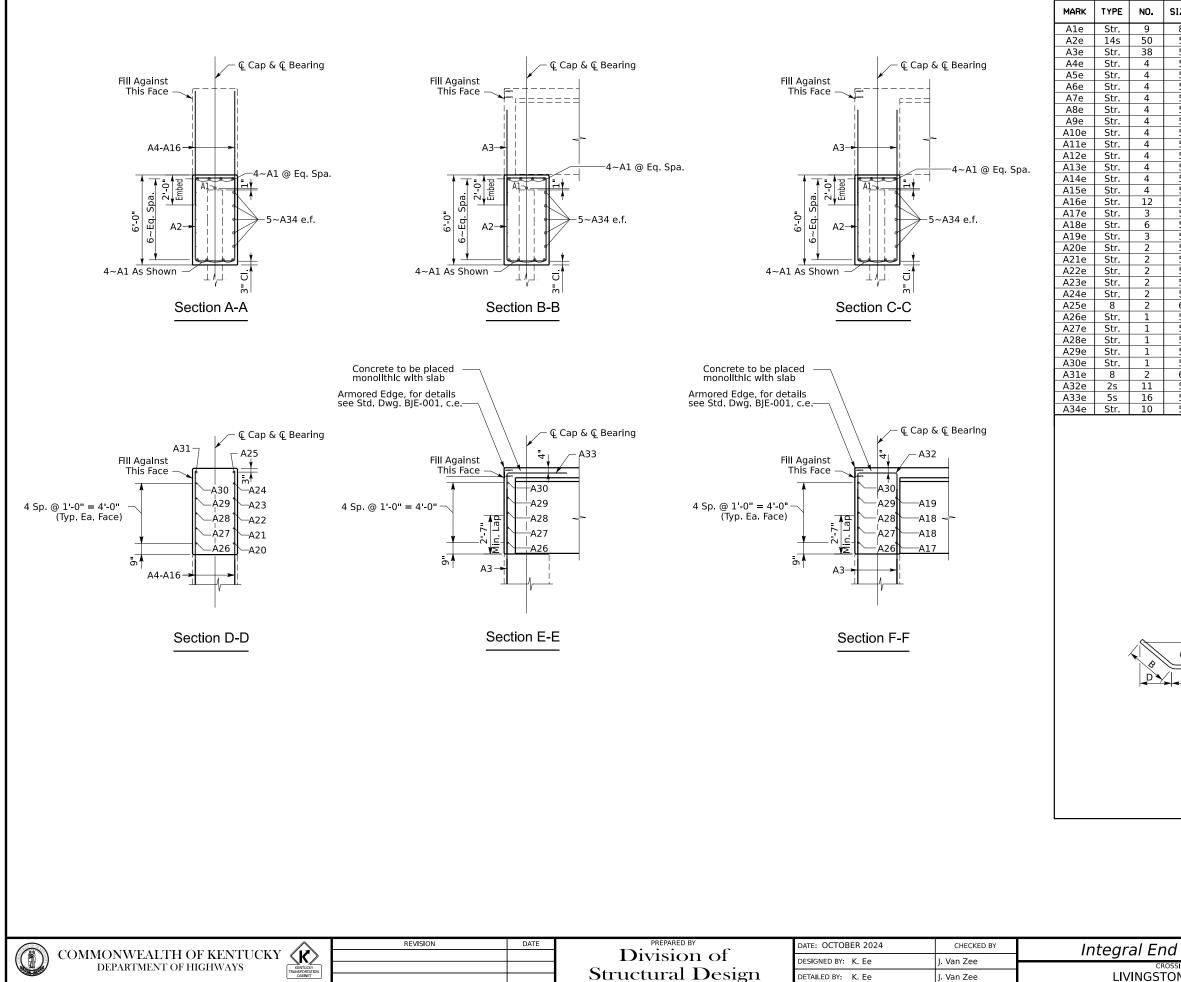
PLAN - Showing Diaphragm and Wing Reinforcement



**ELEVATION - Showing Diaphragm and Wing Reinforcement** 

COMMONWEALTH OF KENTUCKY	REVISION DATE		PREPARED BY	DATE: OCTOBER 2024 CHECKED BY		Integral End Bent #1		EXISTING BRIDGE ID	COUNTY OF
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS			Division of Structural Design	DESIGNED BY: K. Ee DETAILED BY: K. Ee	J. Van Zee		KY 295	SHEET NO.	DRAWING NUMBER
OpenRoads Designer v10.12.02.4 USER: Kon	g.Ee DATE PLOTTED	: 31-OCT-2024	5		J. Van Zee th of Kentucky\kong2024\2892	4-072B00013N-Kong\Kong Design\Details & Closeout\28924.dgn		39	20924

~Wing B~

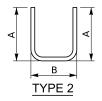


DATE PLOTTED: 31-OCT-2024

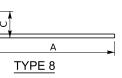
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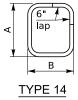
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	BILL	OF REINFORCEMENT	Г			
IZE	LENGTH	LOCATION	A	в	С	D
8	55-8	Сар				
5	17-0	Cap Stirrups	5-7	2-8		
5	4-7	Cap Dowels				
5	3-0	Wings A & B Vertical				
5	3-4	Wings A & B Vertical				
5	3-9	Wings A & B Vertical				
5	4-2	Wings A & B Vertical				
5	4-7	Wings A & B Vertical				
5	5-0	Wings A & B Vertical				
5	5-5	Wings A & B Vertical				
5	5-10	Wings A & B Vertical				
5	6-2	Wings A & B Vertical				
5	6-7	Wings A & B Vertical				
5	7-0	Wings A & B Vertical				
5	7-5	Wings A & B Vertical				
5	7-7	Wings A & B Vertical				
5	4-0	Dlaphragm				
5	5-9	Diaphragm				
5	5-5	Diaphragm				
5	16-4	FF Wings A & B Horizontal				
5	15-0	FF Wings A & B Horizontal				
5	12-6	FF Wings A & B Horizontal				
5	9-11	FF Wings A & B Horizontal				
5	5-8	FF Wings A & B Horizontal				
6	15-4	FF Wings A & B Top	12- 6¼	2- 9½	1-05%	2- 7½
5	55-8	Long Diaphragm Bar				
5	51-3	Long Diaphragm Bar				
5	46-4	Long Diaphragm Bar				
5	41-5	Long Diaphragm Bar				
5	36-5	Long Diaphragm Bar				
6	15-4	BF Wings A & B Top	$12-6\frac{1}{4}$	2- 9½	1-05%	2- 7 <sup>1</sup> / <sub>8</sub>
5	12-9	Diaphragm	5-2	2-8		
5	9-7	Diaphragm Over Beams	5-2	4-6		
5	55-8	Čap Side				









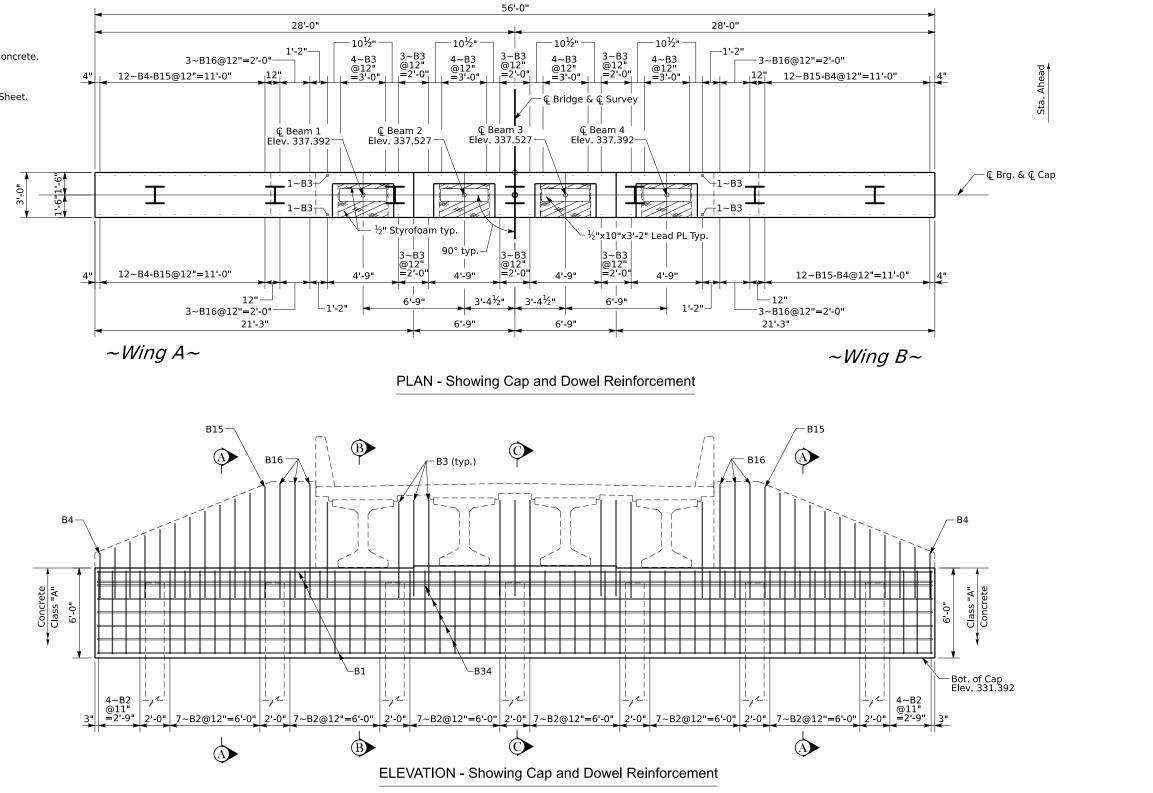
	ROUTE	EXISTING BRIDGE ID	COUNTY OF
Bent #1	NOUTE	072B00013N	LYON
SING	KY 295	SHEET NO.	DRAWING NUMBER
N CREEK	1(1 255	S10	28924



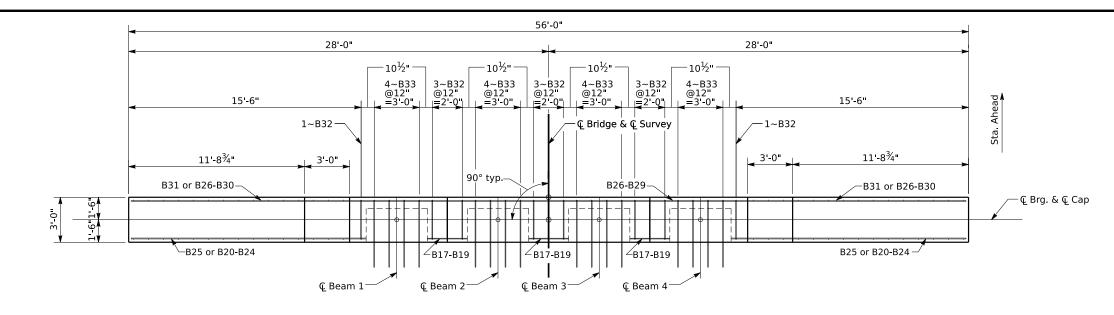
Beam elevations are given at the top of concrete.

Place beams before backfilling.

For pile locations see Foundation Layout Sheet.

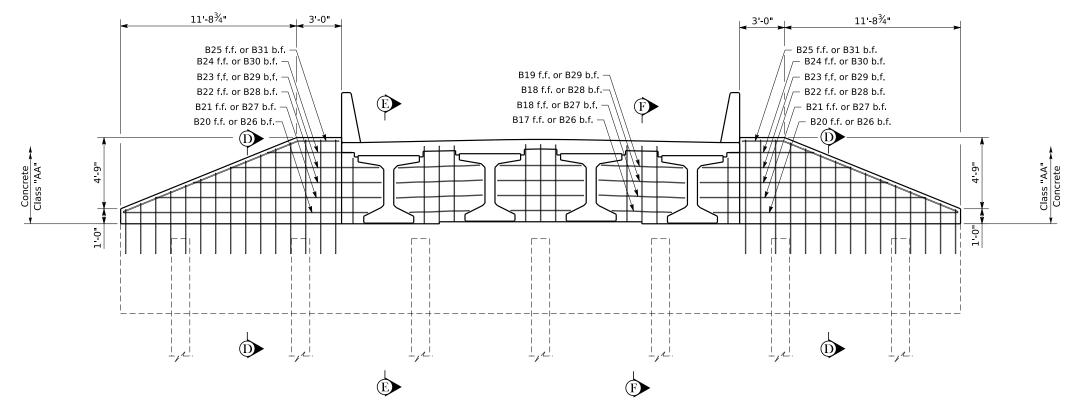


	REVISION	DATE	PREPARED BY	DATE: OCTOBER 2024	CHECKED BY	late and East Deat 112	ROUTE	EXISTING BRIDGE ID	COUNTY OF
( COMMONWEALTH OF KENTUCKY			Division of	BALL COTOBER 2021	CHECKED DI	Integral End Bent #2		072B00013N	LYON
			DIVISION OF	DESIGNED BY: K. Ee	J. Van Zee	CROCEINC	KY 205		DRAWING NUMBER
DEPARTMENT OF HIGHWAYS	N		Structural Design		-		KI 295	SHEET NO.	
CABINET			Structural Design	DETAILED BY: K. Ee	J. Van Zee	LIVINGSTON CREEK		SII	28924
penBoads Designer v10 12 02 4 USER	Kong Ee DATE PLO	TTED 31 OCT 202	4 EILE NAME: C:\Llsers\kong e	e\Documents\OneDrive Commonwealt	h of Kentucky/kong2024/2893	24-072800013N-Kong/Kong Design/Details & Closeout/28924 dan			



~Wing A~

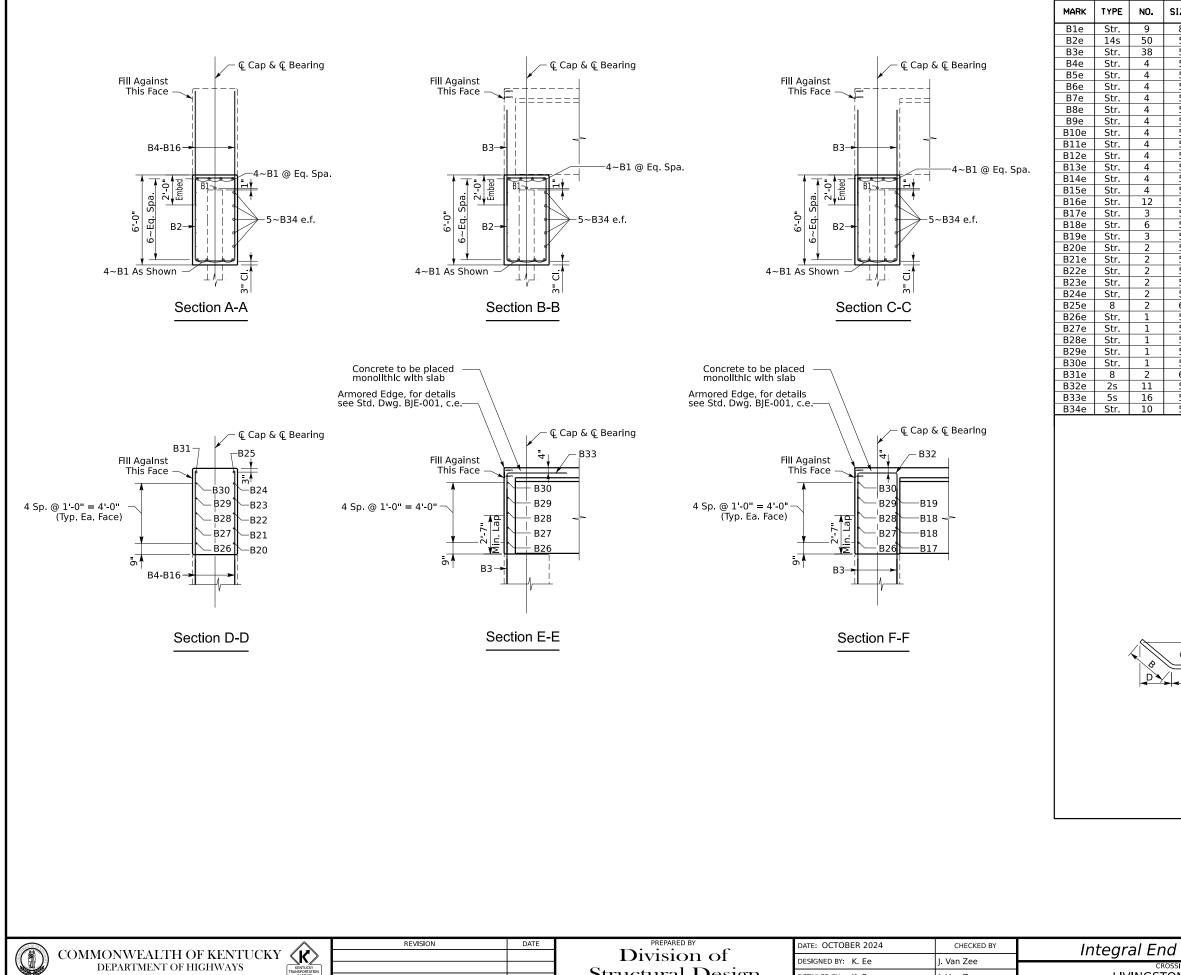
PLAN - Showing Diaphragm and Wing Reinforcement



**ELEVATION - Showing Diaphragm and Wing Reinforcement** 

	REVISION DATE			DATE: OCTOBER 2024 CHECKED BY		Integral End Bent #2	RUUIE		COUNTY OF
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS			Division of	DESIGNED BY: K. Ee	J. Van Zee	CROSSING	KY 295	072B00013N SHEET NO.	DRAWING NUMBER
TRAUSPORTATIO			Structural Design	DETAILED BY: K. Ee	J. Van Zee	LIVINGSTON CREEK		S12	28924
OpenRoads Designer v10.12.02.4 USER:	Kong Ee DATE PLOTTE	D: 31-OCT-2024	FILE NAME: C:\Users\kong.ee	Documents\OneDrive - Commonwealth of	Kentucky\kong2024\2892	4-072B00013N-Kong\Kong Design\Details & Closeout\28924.dgn			

~Wing B~

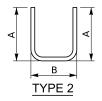


		CABINET			Structural D	esign	DETAILED BY: K. Ee
Op	enRoads Designer v10.12.02.4	USER: Kon	g.Ee DATE PLOTTED	31-OCT-2024	FILE	NAME: C:\Users\kong.ee\E	Documents\OneDrive - Cor

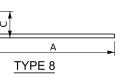
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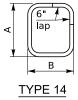
J. Van Zee

	BILL	OF REINFORCEMEN	Γ			
IZE	LENGTH	LOCATION	A	в	С	D
8	55-8	Сар				
5	17-0	Cap Stirrups	5-7	2-8		
5	4-7	Cap Dowels				
5	3-0	Wings A & B Vertical				
5	3-4	Wings A & B Vertical				
5	3-9	Wings A & B Vertical				
5	4-2	Wings A & B Vertical				
5	4-7	Wings A & B Vertical				
5	5-0	Wings A & B Vertical				
5	5-5	Wings A & B Vertical				
5	5-10	Wings A & B Vertical				
5	6-2	Wings A & B Vertical				
5	6-7	Wings A & B Vertical				
5	7-0	Wings A & B Vertical				
5	7-5	Wings A & B Vertical				
5	7-7	Wings A & B Vertical				
5	4-0	Dlaphragm				
5	5-9	Diaphragm				
5	5-5	Diaphragm				
5	16-4	FF Wings A & B Horizontal				
5	15-0	FF Wings A & B Horizontal				
5	12-6	FF Wings A & B Horizontal				
5	9-11	FF Wings A & B Horizontal				
5	5-8	FF Wings A & B Horizontal				
6	15-4	FF Wings A & B Top	12- 6¼	2-9½	1-05%	2-7 <sup>1</sup> / <sub>8</sub>
5	55-8	Long Diaphragm Bar				
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5	41-5	Long Diaphragm Bar				
5	36-5	Long Diaphragm Bar				
6	15-4	BF Wings A & B Top	$12-6\frac{1}{4}$	2- 9½	1-05%	2- 7 <sup>1</sup> / <sub>8</sub>
5	12-9	Diaphragm	5-2	2-8		
5	9-7	Diaphragm Over Beams	5-2	4-6		
5	55-8	Čap Side				

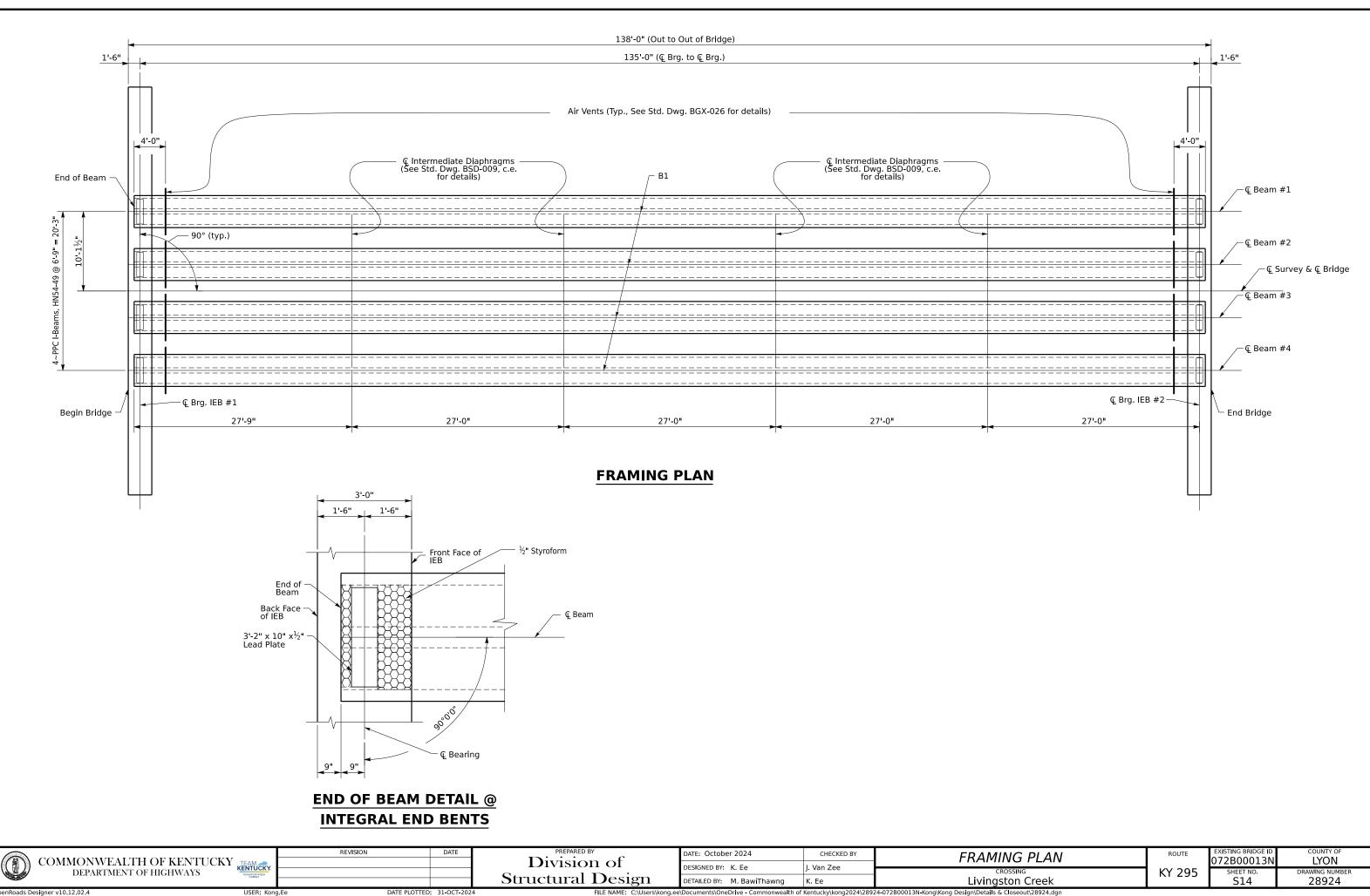






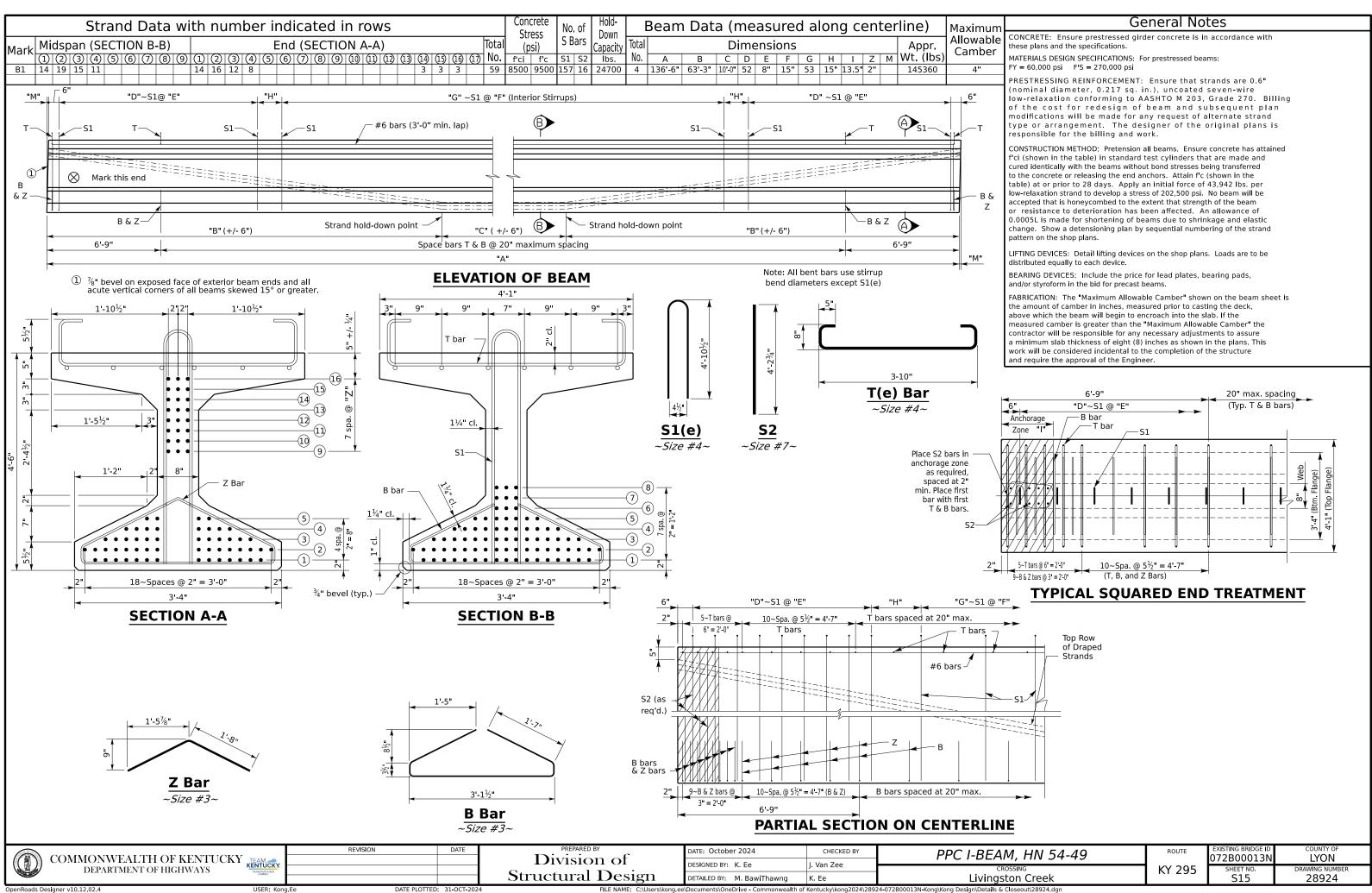


	ROUTE	EXISTING BRIDGE ID	COUNTY OF
egral End Bent #2	NOUTE	072B00013N	LYON
CROSSING	KY 295	SHEET NO.	DRAWING NUMBER
LIVINGSTON CREEK	ICT 255	S13	28924

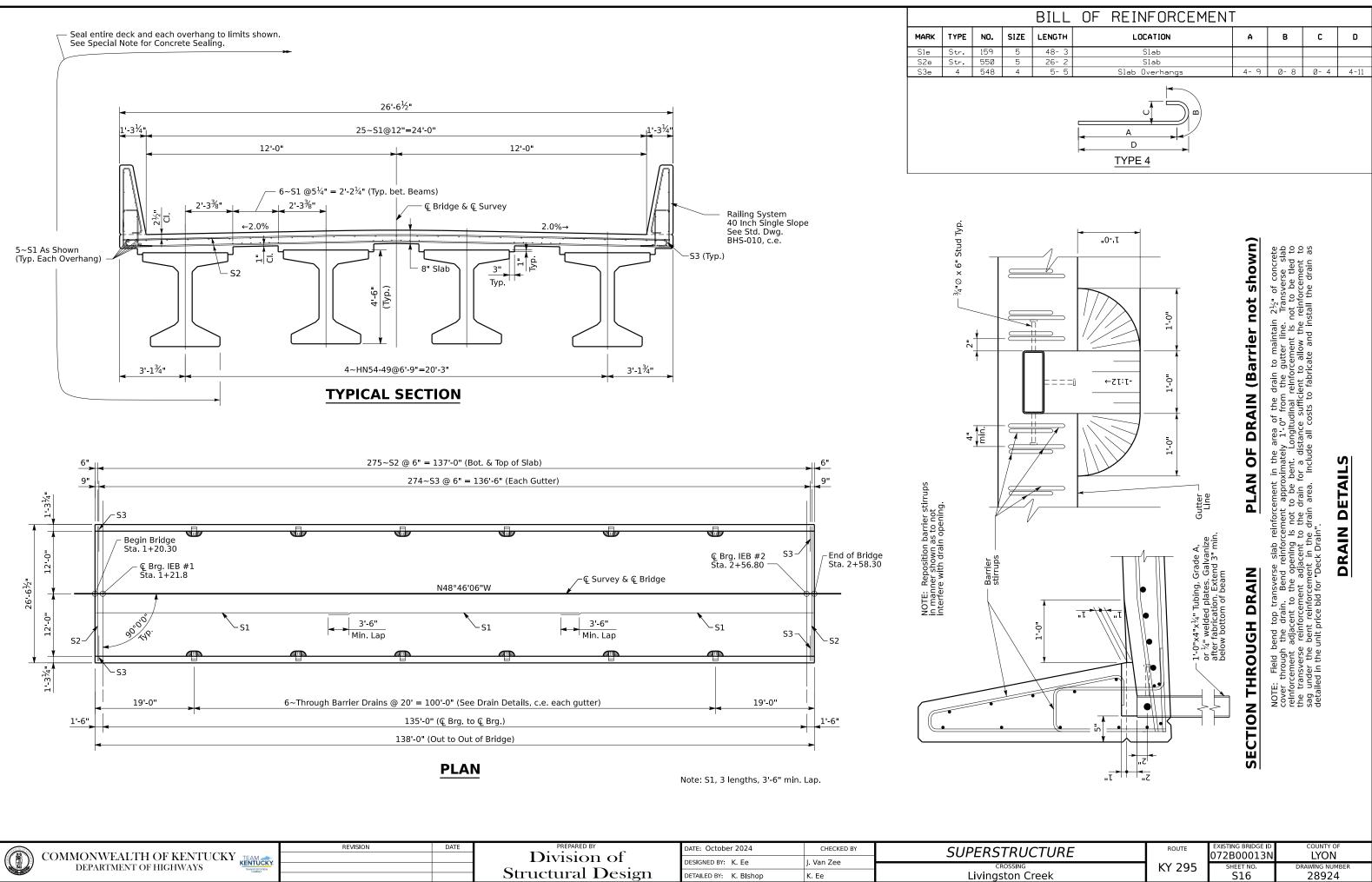


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, HN 54-49	ROUTE	EXISTING BRIDGE ID	
SING	KY 295	SHEET NO.	DRAWING NUMBER
n Creek		S15	28924
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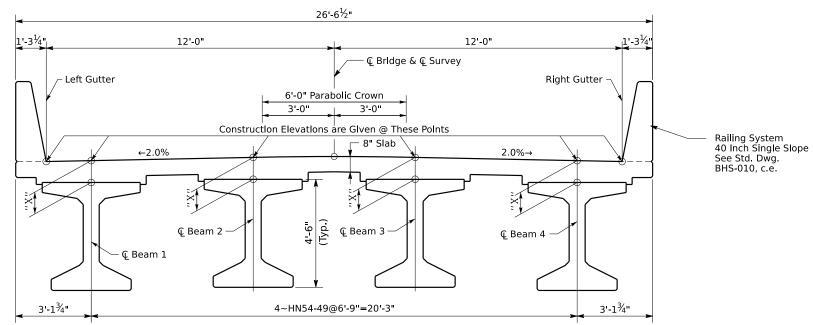


DATE PLOTTED: 31-OCT-2024

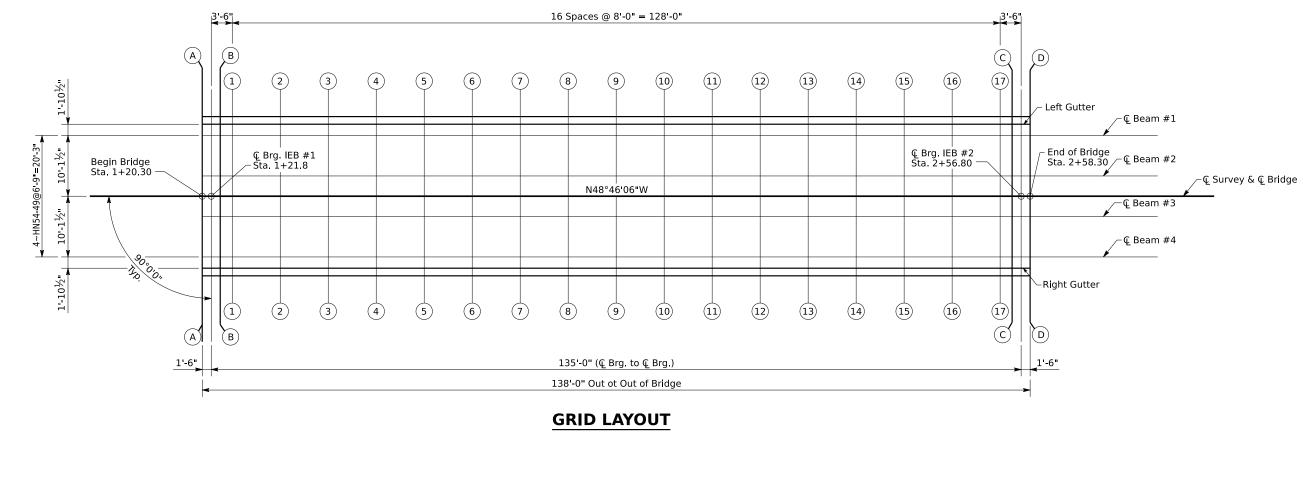
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	ROUTE	EXISTING BRIDGE ID	
KUCTURE		072B00013N	LYON
SING	KY 295	SHEET NO.	DRAWING NUMBER
n Creek		S16	28924
seeut\28024 dan			



**TYPICAL SECTION** 



COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	REVISION	Str	musturel Design	DATE: October 2024 DESIGNED BY: K. Ee DETAILED BY: K. BIshop	CHECKED BY J. Van Zee K. Ee	CONSTRUCTION ELEVATIONS CROSSING Livingston Creek	EXISTING BRIDGE ID 072B00013N SHEET NO. S17	COUNTY OF LYON DRAWING NUMBER 28924
s Designer v10.12.02.4 USER: Kong	.Ee DATE PLOTTED: 33	DCT-2024	FILE NAME: C:\Users\kong.ee	\Documents\OneDrive - Commonwealt	h of Kentucky\kong2024\28924	4-072B00013N-Kong\Kong Design\Details & Closeout\28924.dgn		

OpenRoads Des ner v10.12.02.4

					CON	ISTRUC	TION E	LEVATIO	DNS						
	LEFT		BEAM 1			BEAM 2		Ę		BEAM 3			BEAM 4		RIGHT
LOCATION	GUTTER	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	BRIDGE	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	CONSTR. ELEV.	TOP OF BEAM	DIM. "X"	GUTTER
SKEW LN AA	342.705	342.742			342.877			342.915	342.877			342.742			342.705
SKEW LN BB	342.706	342.743			342.878			342.916	342.878			342.743			342.706
SKEW LN CC	342.813	342.851			342.986			343.023	342.986			342.851			342.813
SKEW LN DD	342.814	342.852			342.987			343.024	342.987			342.852			342.814
GRID LN 01	342.730	342.767			342.902			342.940	342.902			342.767			342.730
GRID LN 02	342.784	342.821			342.956			342.994	342.956			342.821			342.784
GRID LN 03	342.835	342.873			343.008			343.045	343.008			342.873			342.835
GRID LN 04	342.883	342.920			343.055			343.093	343.055			342.920			342.883
GRID LN 05	342.924	342.962			343.097			343.134	343.097			342.962			342.924
GRID LN 06	342.959	342.997			343.132			343.169	343.132			342.997			342.959
GRID LN 07	342.986	343.024			343.159			343.196	343.159			343.024			342.986
GRID LN 08	343.006	343.043			343.178			343.216	343.178			343.043			343.006
GRID LN 09	343.016	343.054			343.189			343.226	343.189			343.054			343.016
GRID LN 10	343.018	343.056			343.191			343.228	343.191			343.056			343.018
GRID LN 11	343.012	343.049			343.184			343.222	343.184			343.049			343.012
GRID LN 12	342.997	343.035			343.170			343.207	343.170			343.035			342.997
GRID LN 13	342.975	343.013			343.148			343.185	343.148			343.013			342.975
GRID LN 14	342.946	342.984			343.119			343.156	343.119			342.984			342.946
GRID LN 15	342.912	342.949			343.084			343.122	343.084			342.949			342.912
GRID LN 16	342.873	342.911			343.046			343.083	343.046			342.911			342.873
GRID LN 17	342.832	342.869			343.004			343.042	343.004			342.869			342.832

### 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.

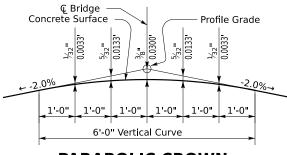
Temporary supports or shoring will not be permitted under the girders when pouring the concrete floor slab or when taking "Top of Beam" elevations.

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

Note to Resident: The "Maximum Allowable Camber" shown on the beam sheet is the amount of camber, measured prior to casting the deck, above which the beam will begin to encroach into the slab. If the measured camber is greater than the "Maximum Allowable Camber" the contractor will be responsible for any necessary adjustments to assure a minimum slab thickness of eight (8) inches as shown in the plans. This work will be considered incidental to the completion of the structure and have the approval of the Engineer

The minimum allowable X-Dimenision on a beam results in the design deck thickness (8") at the edge of the beam flange. This is calculated as the deck thickness + (half the top flange width \* the cross slope of the bridge). This is  $8"+24\frac{1}{2}"*0.02 = 8.49" = 0.708'$ . Any necessary modifications to some or all of the X-dimensions must meet the approval of the Engineer.

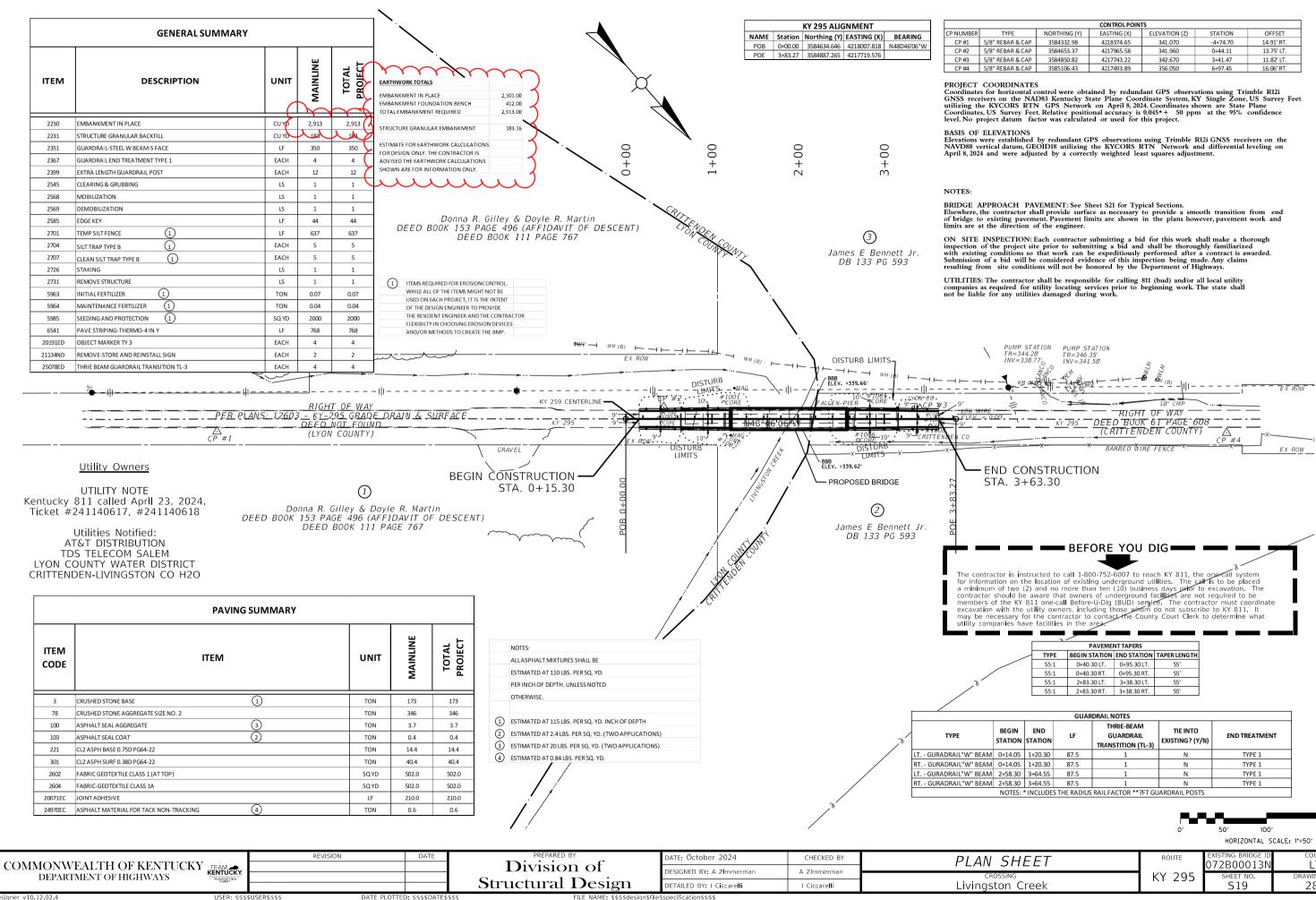
NIH CO		REVISION	DATE	PREPARED BY	DATE: October 2024	CHECKED BY		ROUTE	EXISTING BRIDGE ID	COUNTY OF
COMMONWEALTH OF KENTUCKY				Division of	DESIGNED BY: K. Ee	J. Van Zee	CONSTRUCTION ELEVATIONS		072B00013N	LYON
DEPARTMENT OF HIGHWAYS	TRANSPORTATION CABINET			Structural Design	DETAILED BY: K. Bishop	J. Vali Zee	crossing Livingston Creek	KY 295	SHEET NO.	DRAWING NUMBER 28924
enRoads Designer v10.12.02.4	USER: Kong	.Ee DA	TE PLOTTED: 31-OCT-2024	FILE NAME: C:\Users\kong.e		alth of Kentucky\kong2024\2892	24-072B00013N-Kong\Kong Design\Details & Closeout\28924.dgn		510	2052+



**PARABOLIC CROWN** 

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DATE PLOTTED: \$\$\$\$DATE\$\$\$\$

FILE NAME: \$\$\$\$design\$file\$specification\$\$\$\$

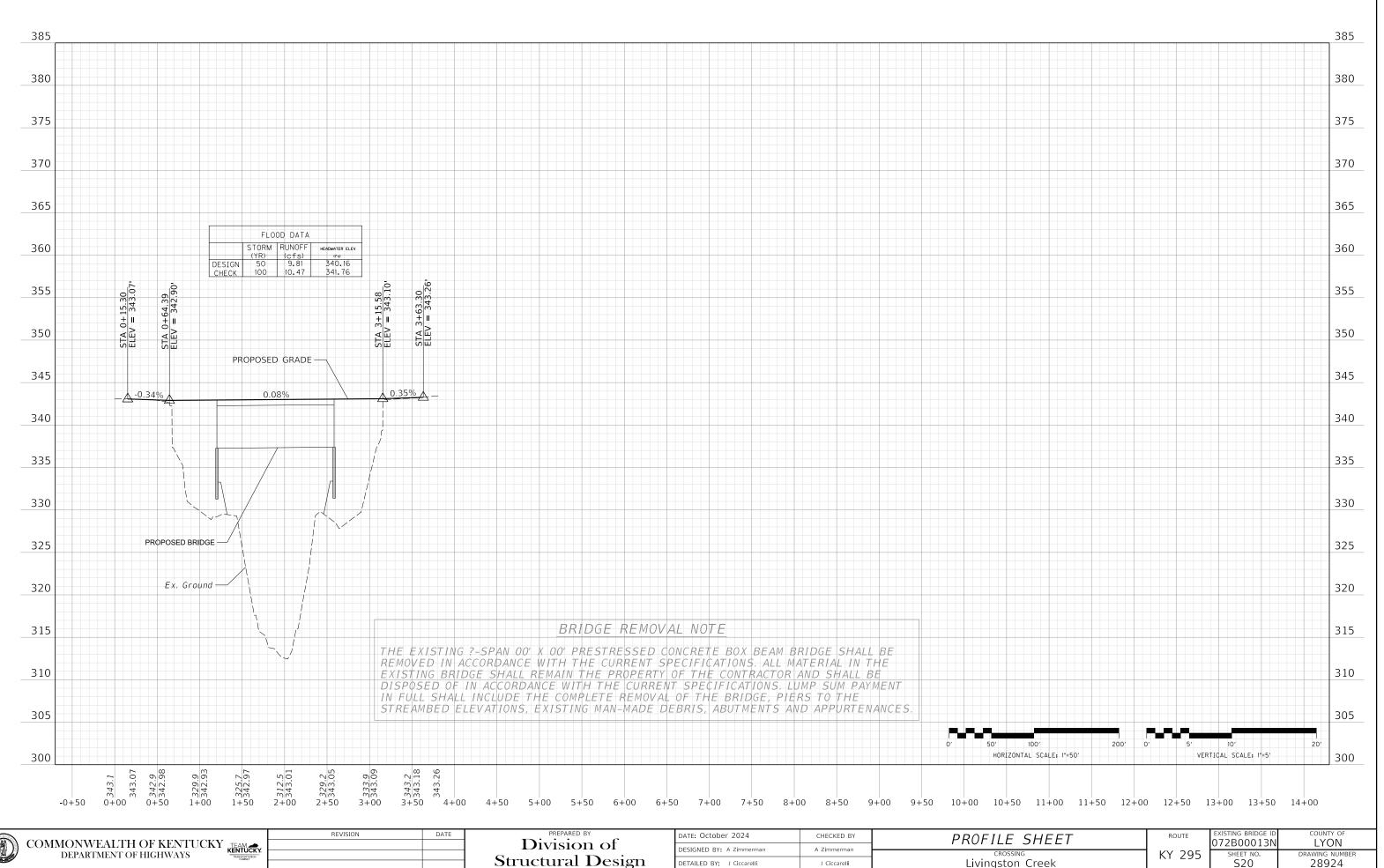
		CONTROL POINT	rs		
YPE	NORTHING (Y)	EASTING (X)	ELEVATION (Z)	STATION	OFFSET
BAR & CAP	3584332.98	4218374.65	341.070	-4+74.70	14.91' RT.
BAR & CAP	3584653.37	4217965.58	341.960	0+44.11	13.75' LT.
BAR & CAP	3584850.82	4217743.22	342.670	3+41.47	11.82' LT.
BAR & CAP	3585106.43	4217493.89	356.050	6+97.45	16.06' RT.

	1			
		PAVEME	NT TAPERS	
/	TYPE	BEGIN STATION	END STATION	TAPER LENGTH
	55:1	0+40.30 LT.	0+95.30 LT.	55'
	55:1	0+40.30 RT.	0+95.30 RT.	55'
	55:1	2+83.30 LT.	3+38.30 LT.	55'
	55:1	2+83.30 RT.	3+38.30 RT.	55'

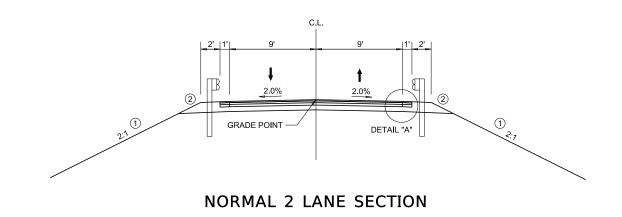
GUARDRAIL NOTES							
EGIN ATION	END STATION	LF	THRIE-BEAM GUARDRAIL TRANSTITION (TL-3)	TIE INTO EXISTING? (Y/N)	END TREATMENT		
14.05	1+20.30	87.5	1	N	TYPE 1		
14.05	1+20.30	87.5	1	N	TYPE 1		
58.30	3+64.55	87.5	1	N	TYPE 1		
58.30	3+64.55	87.5	1	N	TYPE 1		
OTES							

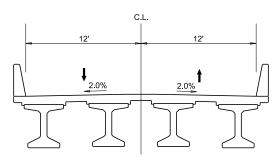
0′	50'	100'	200'
	HORIZ	ONTAL SCALE: 1"=50'	

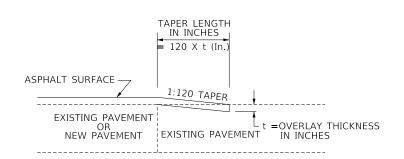
		Nonteon ne o	0422.1 50
SHEET	ROUTE	existing bridge id 072B00013N	COUNTY OF
n Creek	KY 295	sheet no. S19	drawing number 28924



# **TYPICAL SECTIONS**





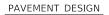


# **2 LANE BRIDGE SECTION**

### EDGE KEY DETAIL

|--|--|

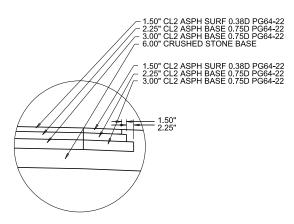
COMMONWEALTH OF KENTUCKY	REVISION	DATE	Division of	DATE: October 2024	CHECKED BY	TYPICAL SECTION SHEET	route KY 295		COUNTY OF
				DESIGNED BY: A Zimmerman	A Zimmerman			SHEET NO.	DRAWING NUMBER
			Structural Design	DETAILED BY: J Ciccarelli	J Ciccarelli	Livingston Creek		S21	28924
OpenRoads Designer v10.12.02.4 USER:	\$\$\$\$USER\$\$\$\$ DATE PLOT	ED: \$\$\$\$DATE\$\$\$	FILE NAME: \$\$\$\$design\$fi	le\$specification\$\$\$\$					



ROADBED PREPARATION 12" CRUSHED STONE AGGREGATE SIZE NO. 2 FABRIC GEOTEXTILE CLASS 1A FABRIC GEOTEXTILE CLASS 1 (TOP) TRAFFIC LANES

1.50" CL2 ASPH SURF 0.38D PG64-22 2.25" CL2 ASPH BASE 0.75D PG64-22 3.00" CL2 ASPH BASE 0.75D PG64-22 6.00" CRUSHED STONE BASE SHOULDERS

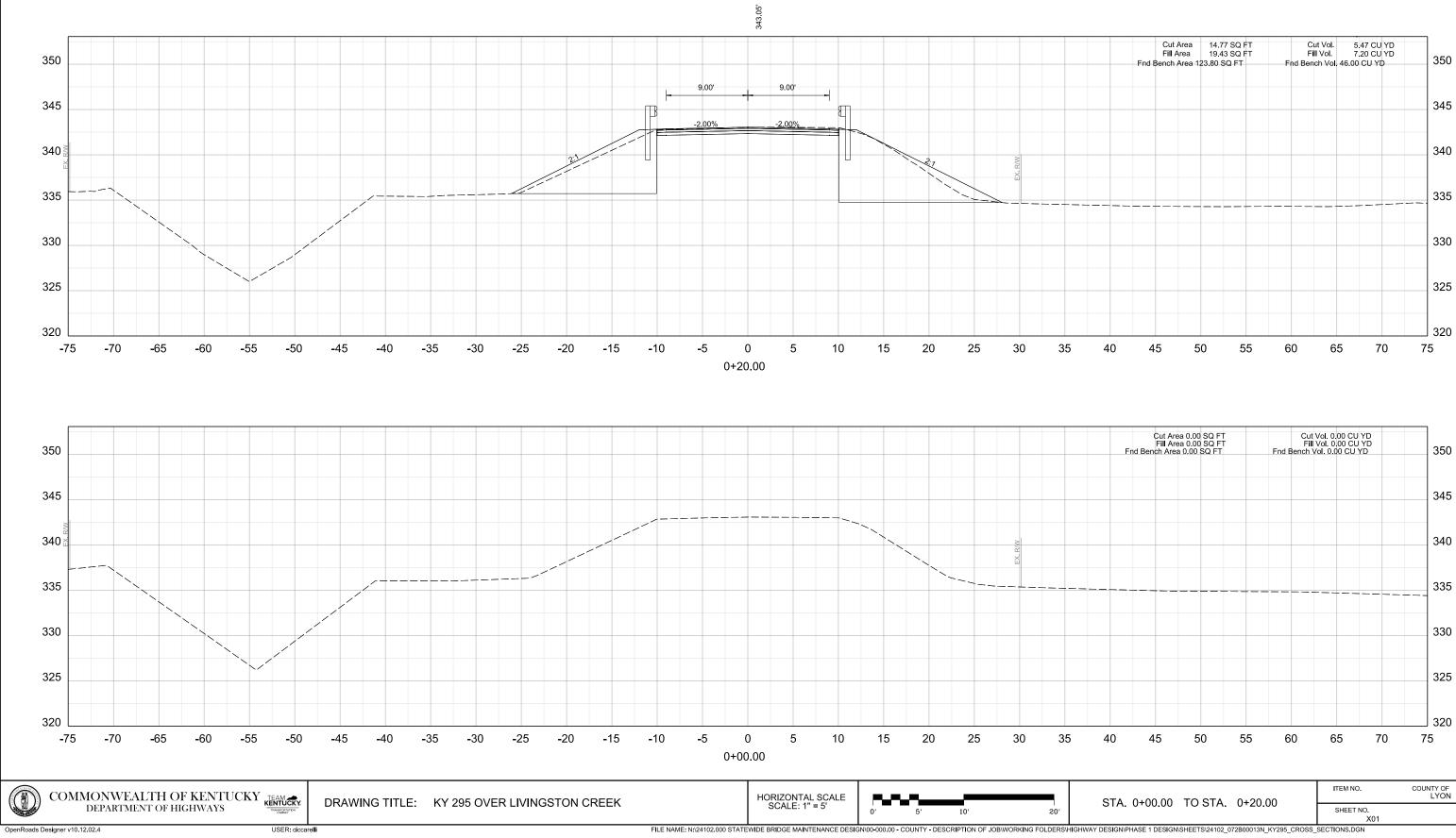
1.50" CL2 ASPH SURF 0.38D PG64-22 2.25" CL2 ASPH BASE 0.75D PG64-22 3.00" CL2 ASPH BASE 0.75D PG64-22 6.00" CRUSHED STONE BASE



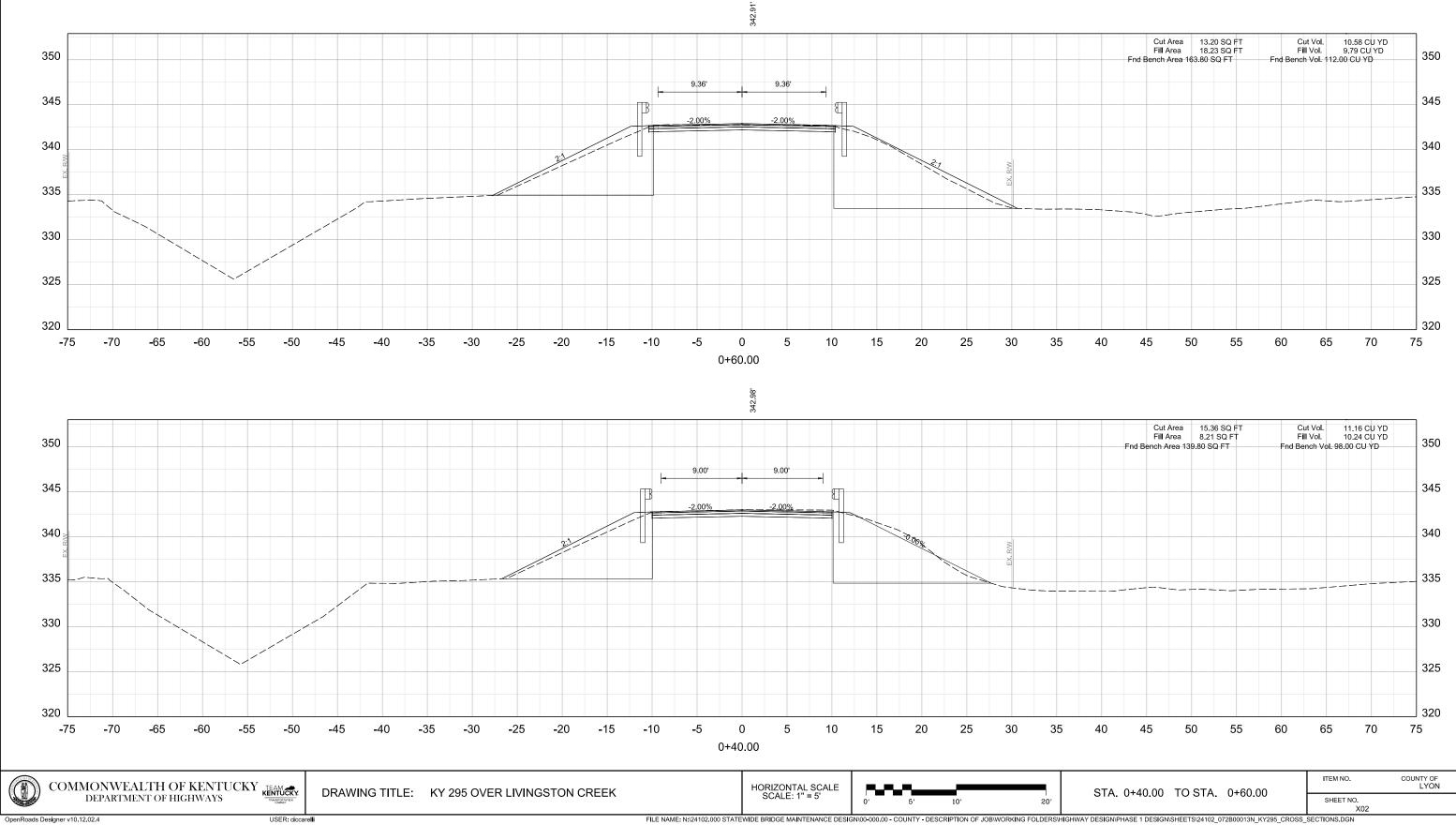
DETAIL "A"

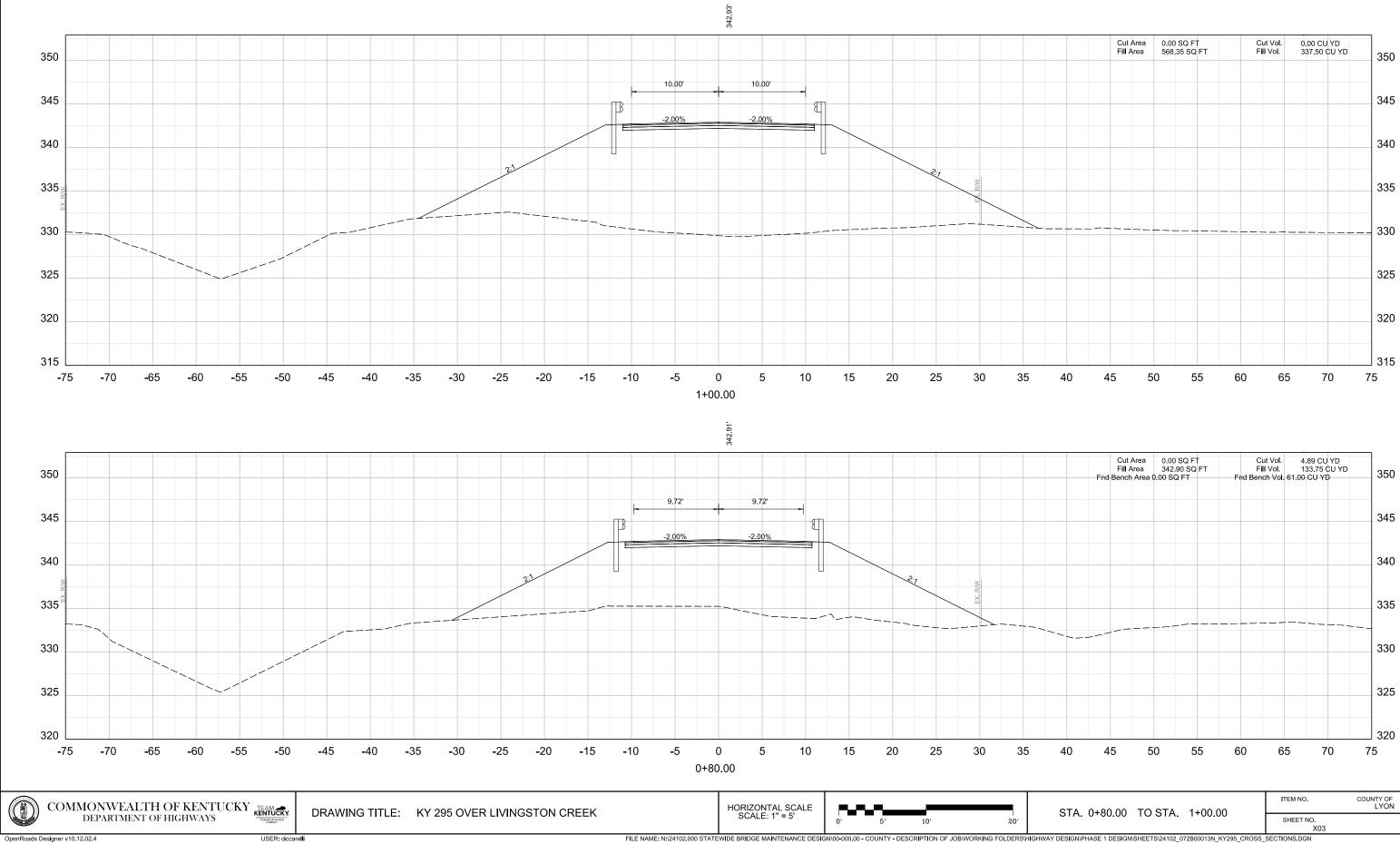
1 SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS

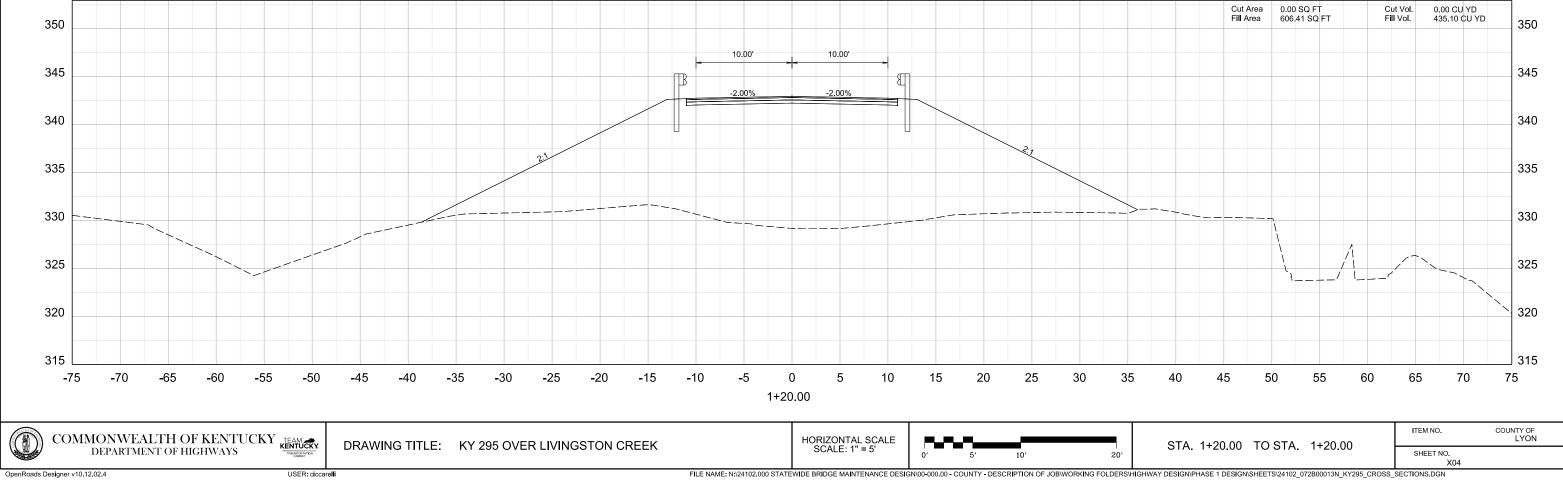
ASPHALT SEAL REQUIRED FROM EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING: 2 ASPHALT SEAL COAT ASPHALT SEAL AGGREGATE 24 LB/ SQ. YD. 20 LB/SQ. YD. SIZE NO. 8 OR 9



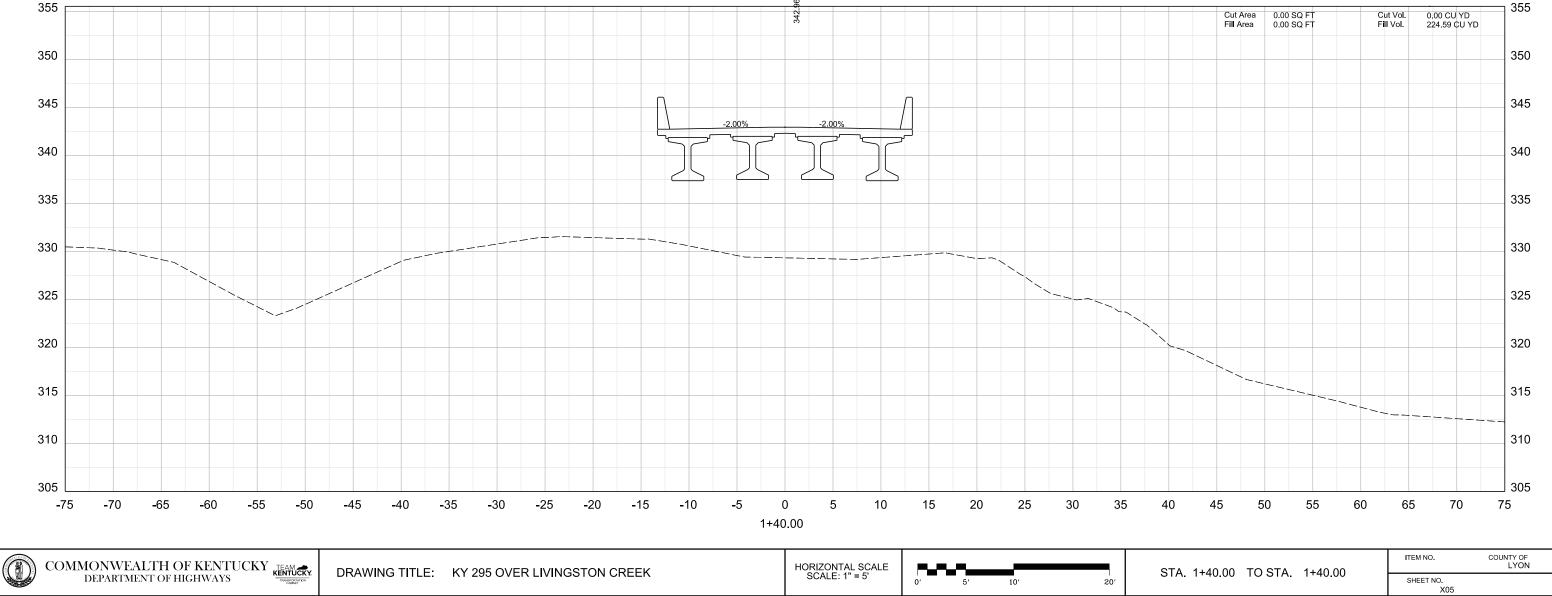
TA. 0+00.00 TO STA. 0+20.00	ITEM NO.	COUNTY OF LYON
TA. 0100.00 TO STA. 0120.00	SHEET NO. X01	





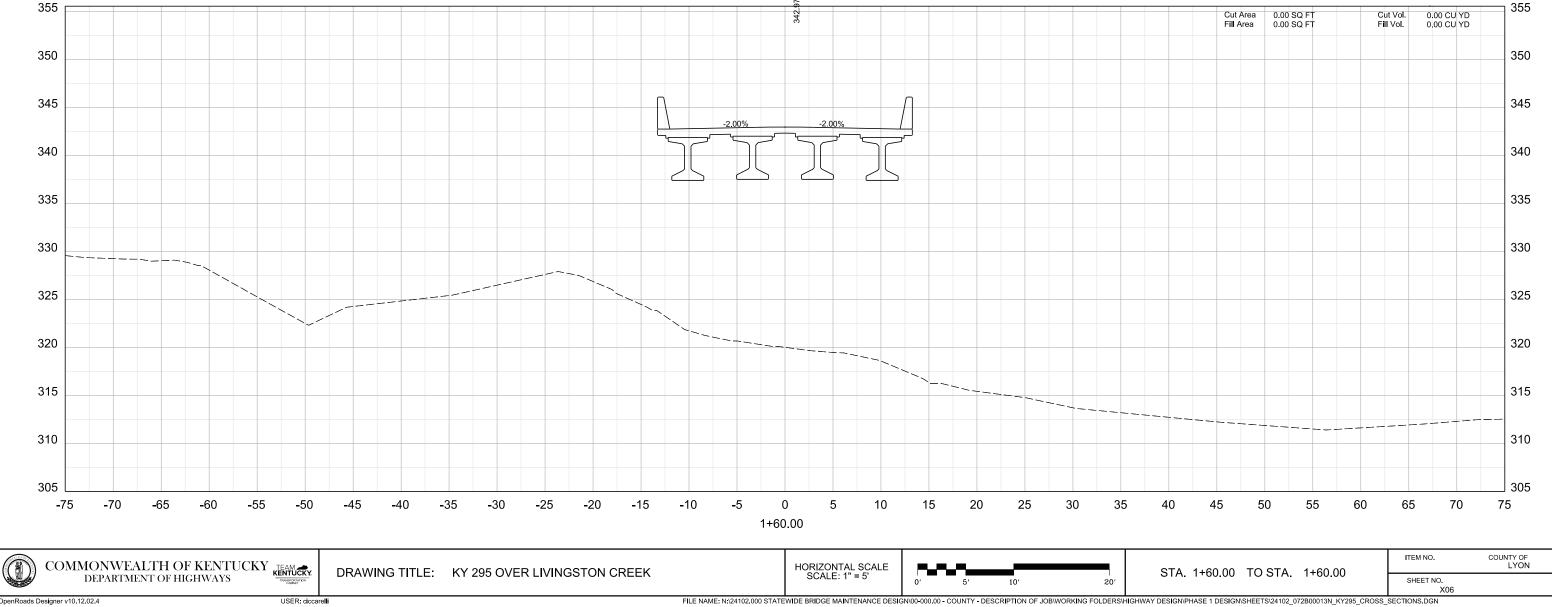


342.94'

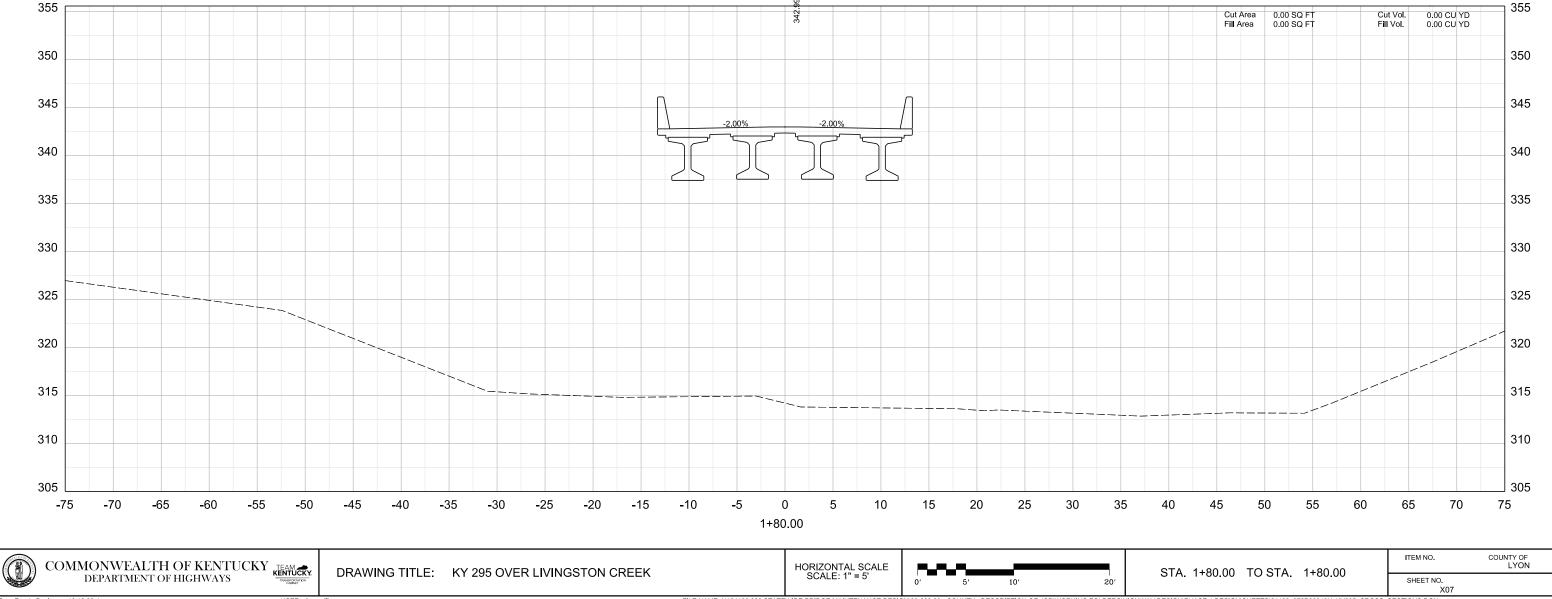


USER: ciccarelli

FILE NAME: N:124102.000 STATEWIDE BRIDGE MAINTENANCE DESIGN(00-000.00 - COUNTY - DESCRIPTION OF JOB/WORKING FOLDERS/HIGHWAY DESIGN/PHASE 1 DESIGN/SHEETS/24102\_072B00013N\_KY295\_CROSS\_SECTIONS.DGN

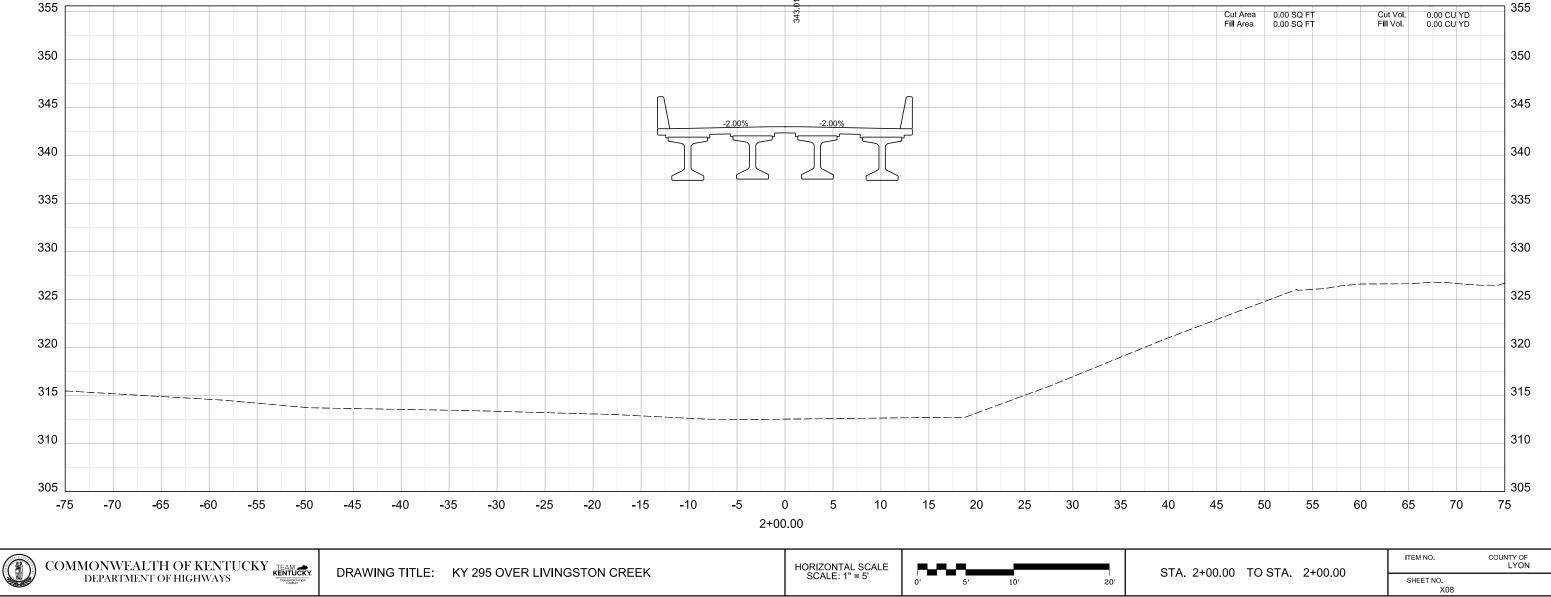


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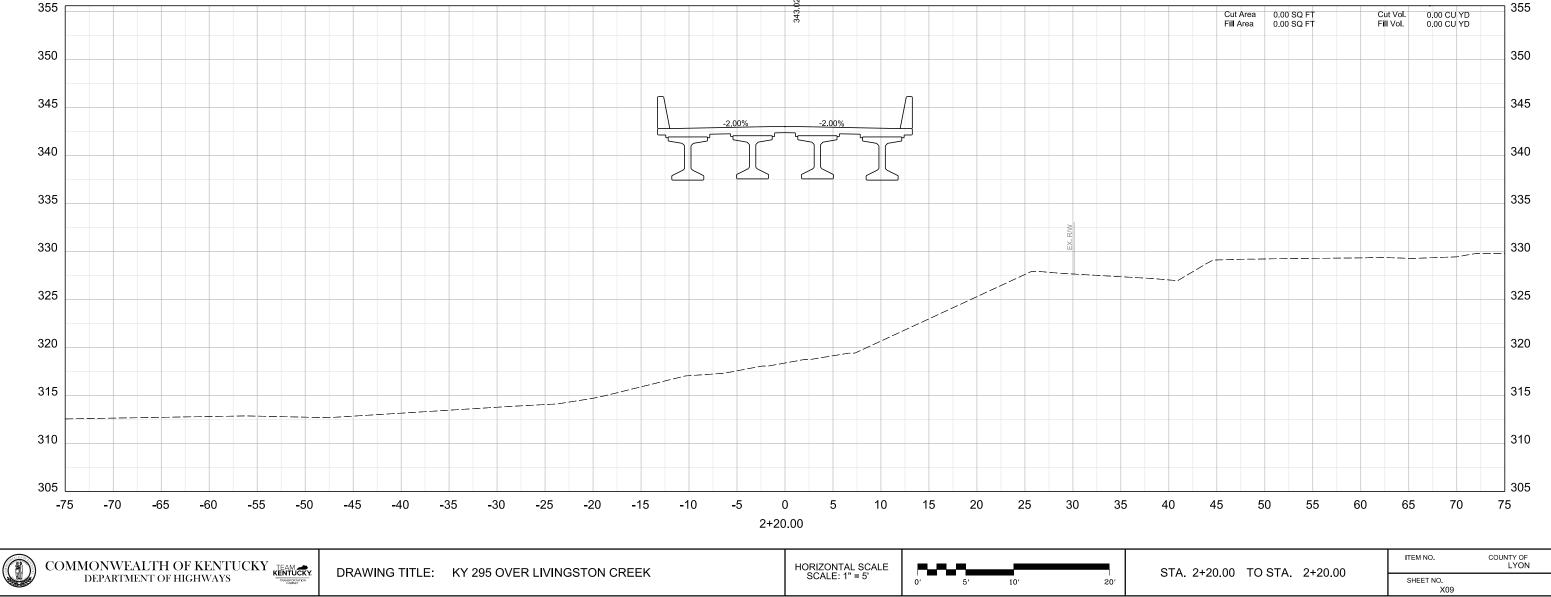
USER: ciccarelli

FILE NAME: N:24102.000 STATEWIDE BRIDGE MAINTENANCE DESIGN:00-000.00 - COUNTY - DESCRIPTION OF JOB/WORKING FOLDERS/HIGHWAY DESIGN/PHASE 1 DESIGN/SHEETS/24102\_072B00013N\_KY295\_CROSS\_SECTIONS.DGN



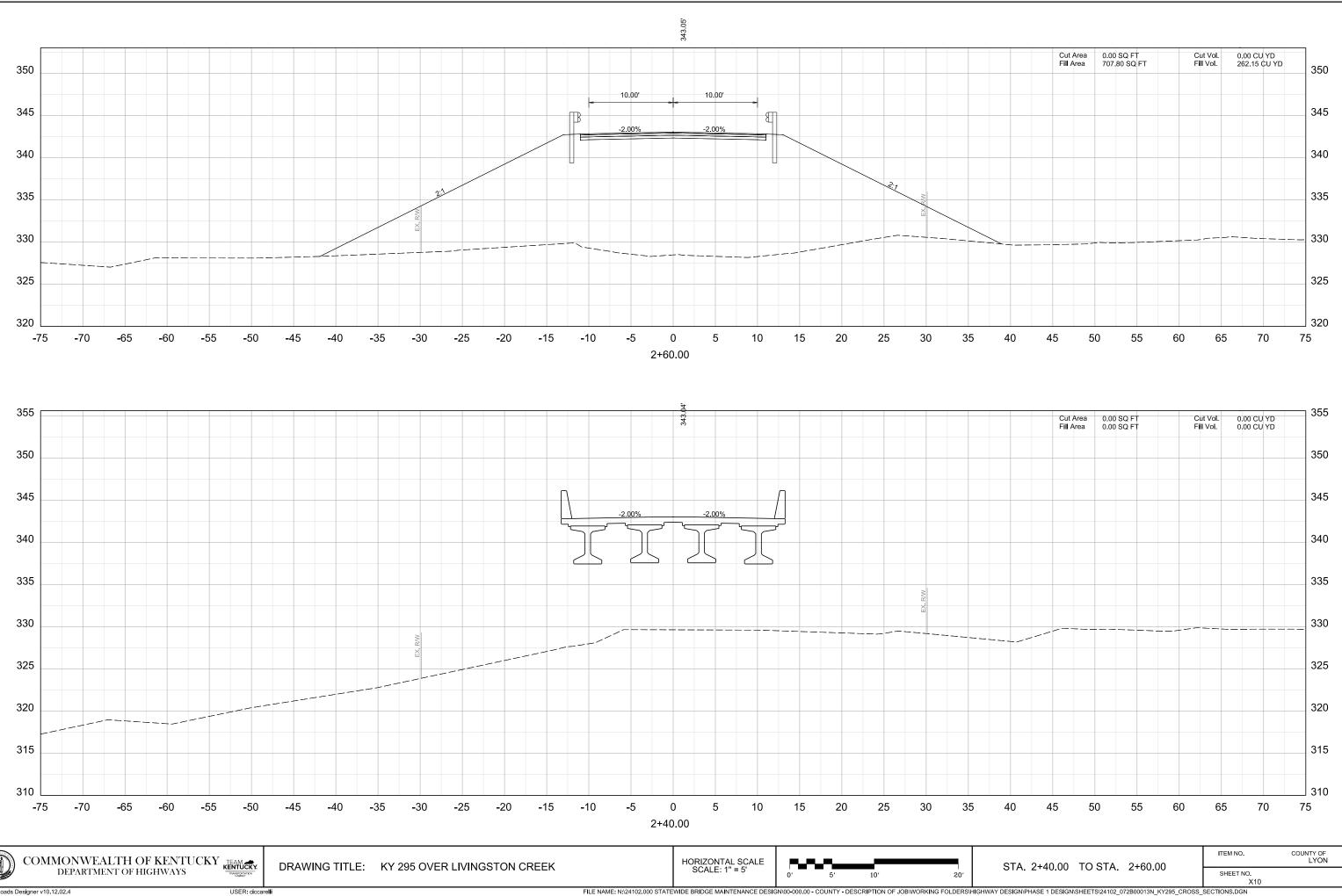
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FILE NAME: N:124102.000 STATEWIDE BRIDGE MAINTENANCE DESIGN(00-000.00 - COUNTY - DESCRIPTION OF JOB/WORKING FOLDERS/HIGHWAY DESIGN/PHASE 1 DESIGN/SHEETS/24102\_072B00013N\_KY295\_CROSS\_SECTIONS.DGN



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FILE NAME: N:124102.000 STATEWIDE BRIDGE MAINTENANCE DESIGN100-000.00 - COUNTY - DESCRIPTION OF JOB/WORKING FOLDERS/HIGHWAY DESIGN/PHASE 1 DESIGN/SHEETS/24102\_072B00013N\_KY295\_CROSS\_SECTIONS.DGN

