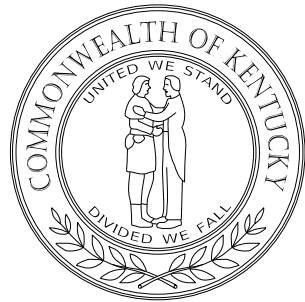


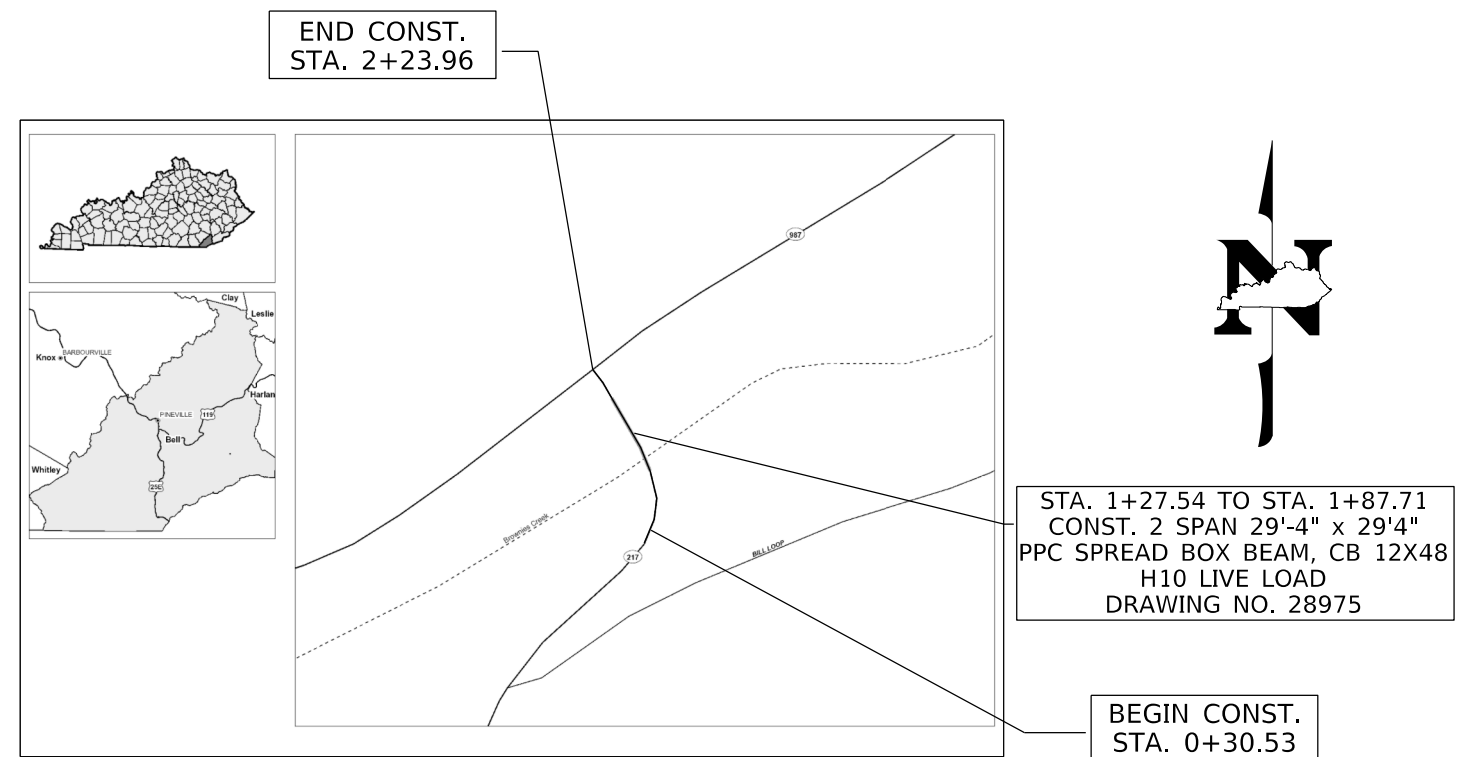
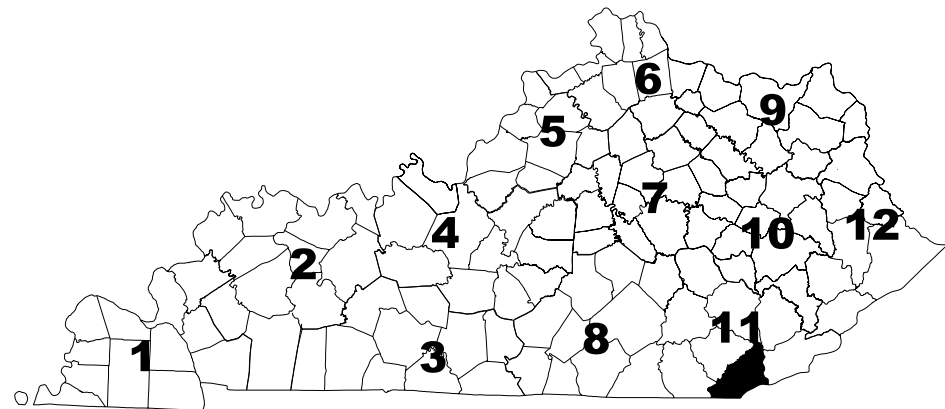


COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT BELL County

KY 217 OVER BROWNIES CREEK



LAYOUT MAP

DESIGN CRITERIA

CLASS OF HIGHWAY RURAL MAJOR COLLECTOR
TYPE OF TERRAIN MOUNTAINOUS
DESIGN SPEED 55
REQUIRED NPSD _____
REQUIRED PSD _____
LEVEL OF SERVICE _____
ADT PRESENT () _____
ADT FUTURE () _____
DHV _____
D % _____
T % _____

GEOGRAPHIC COORDINATES

LATITUDE 36 DEGREES 42 MINUTES 20 SECONDS NORTH
LONGITUDE 83 DEGREES 33 MINUTES 1 SECONDS WEST

DESIGNED

% RESTRICTED SD _____
LEVEL OF SERVICE _____
MAX. DISTANCE W/O PASSING _____

INDEX OF SHEETS

R1 LAYOUT SHEET
R2 TYP. SECTIONS AND COORD. CONT. LEGEND
R3 SUMMARY OF QUANTITIES
R4 PLAN AND PROFILE SHEETS
X1 - X6 CROSS SECTION SHEETS

STANDARD DRAWINGS

RBI-001-12 TYPICAL GUARDRAIL INSTALLATIONS
RBI-002-07 TYPICAL GUARDRAIL INSTALLATIONS
RBI-004-06 INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1
RBR-001-13 STEEL BEAM GUARDRAIL "W" BEAM
RBR-015-06 STEEL GUARDRAIL POSTS
RBR-030-05 GUARDRAIL END TREATMENT TYPE 3
RBR-050-08 GUARDRAIL END TREATMENT TYPE 7
RBR-055-01 DELINEATORS FOR GUARDRAIL
SEPIA 001 RAILING SYSTEM TYPE II GUARDRAIL TREATMENT
SEPIA 034 GUARDRAIL END TREATMENT TYPE 1
SEPIA 035 GUARDRAIL END TREATMENT TYPE 4A

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

PROJECT NUMBER: 1100 FE02 007 625B00064N

PROJECT DESCRIPTION: KY 217 OVER BROWNIES CREEK

RECOMMENDED BY: _____ PROJECT MANAGER DATE: _____

PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER DATE: _____

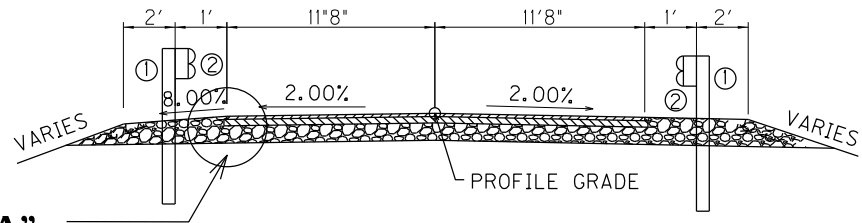


Kevin F. Damron
16975
Professional Engineer
Date: 2025.05.05 12:27:00.04307

LETTING DATE:

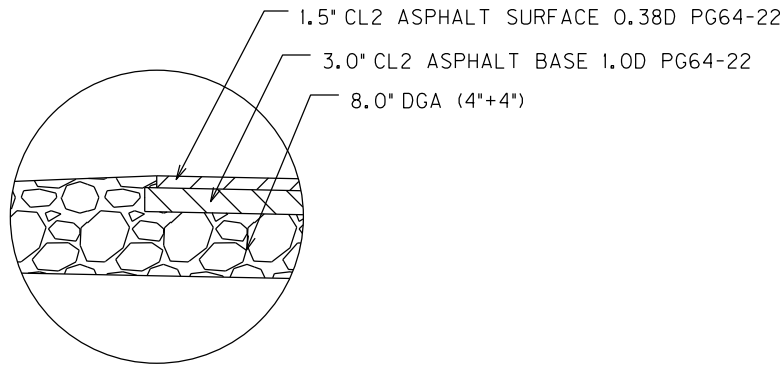
ITEM NO. _____ COUNTY OF BELL

SHEET NO. R1

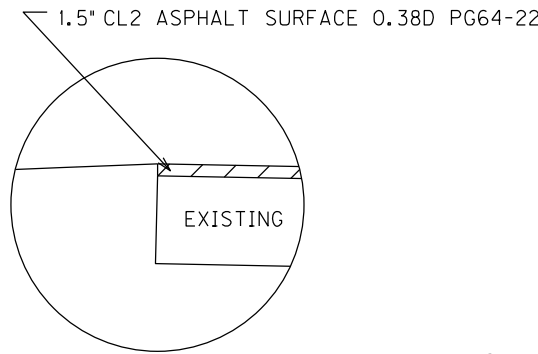


SEE DETAIL "A"

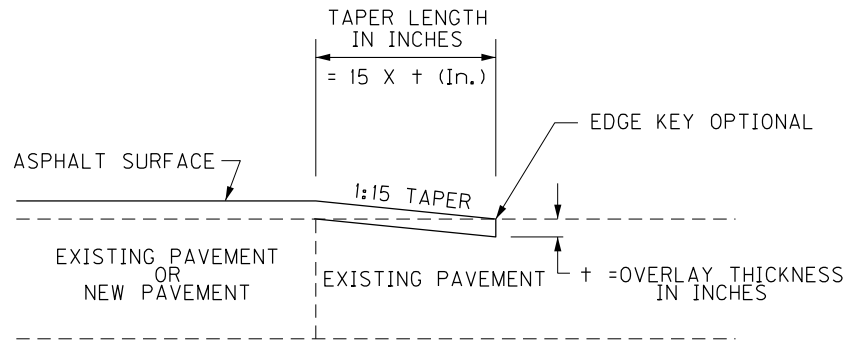
APPROACH NORMAL SECTION



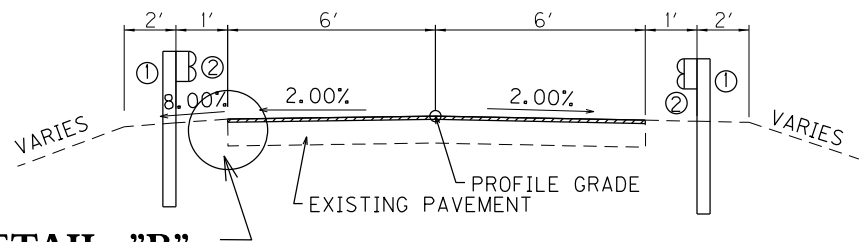
DETAIL "A"



DETAIL "B"



EDGE KEY TAPER



SEE DETAIL "B"

OVERLAY NORMAL SECTION

SEE BRIDGE LAYOUT SHEET FOR BRIDGE TYPICAL SECTION

BRIDGE SECTION

COORDINATE CONTROL POINTS						
POINT	DESCRIPTION	State Plane Coordinates			STATION	OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)		
1	CP 1 - IPCS	3424079.680	5566190.194	1122.459	2 + 01.48	57.32' RT
2	CP 2 - MAG NAIL	3424015.172	5566087.413	1121.471	2 + 00.65	64.03' LT

NOTES

- ① SEE PLAN SHEETS FOR LOCATIONS.
- ② ASPHALT SEAL REQUIRED FROM EDGE OF PAVED SHOULDER TO A POINT 2.0 FT DOWN THE DITCH OR FILL SLOPE TO RETARD VEGETATION GROWTH AND PREVENT EROSION. TWO APPLICATIONS OF THE FOLLOWING ARE REQUIRED.

ASPHALT SEAL COAT2.4LB/SQ.YD.

ASPHALT SEAL AGGREGATE20 LB/SQ.YD. (SIZE NO. 8 OR 9)
- NOTE: ASPHALT MATERIAL FOR TACK AS DIRECTED BY ENGINEER MEASURED AT 0.84 LBS/SQ.YD.

APPROACH PAVEMENT SCHEDULE

ASPHALT SURFACE	1.5" CL2 ASPHALT SURFACE 0.38D PG64-22
ASPHALT BASE	3.0" CL2 ASPHALT BASE 1.0D PG64-22
DGA BASE	8.0" DGA (4"+4")
SHOULDERS	
DGA BASE AND/OR GRANULAR EMBANKMENT	FULL DEPTH

OVERLAY PAVEMENT SCHEDULE

ASPHALT SURFACE	1.5" CL2 ASPHALT SURFACE 0.38D PG64-22
-----------------	--

BASIS OF COORDINATES

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

Coordinate are based on State Plane Coordinate System Single Zone and in U.S. SURVEY FEET.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

CENTERLINE COORD. CONTROL

POINT	DESCRIPTION	State Plane Coordinates		STATION
		NORTH (Y)	EAST (X)	
1	POB	3423875.610	5566144.458	0 + 00
2	PC 1	3423883.906	5566154.371	0 + 12.93
3	PI 1	3423910.137	5566185.714	0 + 53.80
4	PT 1	3423950.910	5566188.531	0 + 90.21
5	PC 2	3423952.960	5566188.672	0 + 92.26
6	PI 2	3423971.096	5566189.925	1 + 10.44
7	PT 2	3423986.560	5566180.367	1 + 27.44
8	POE	3424068.666	5566129.619	2 + 23.96



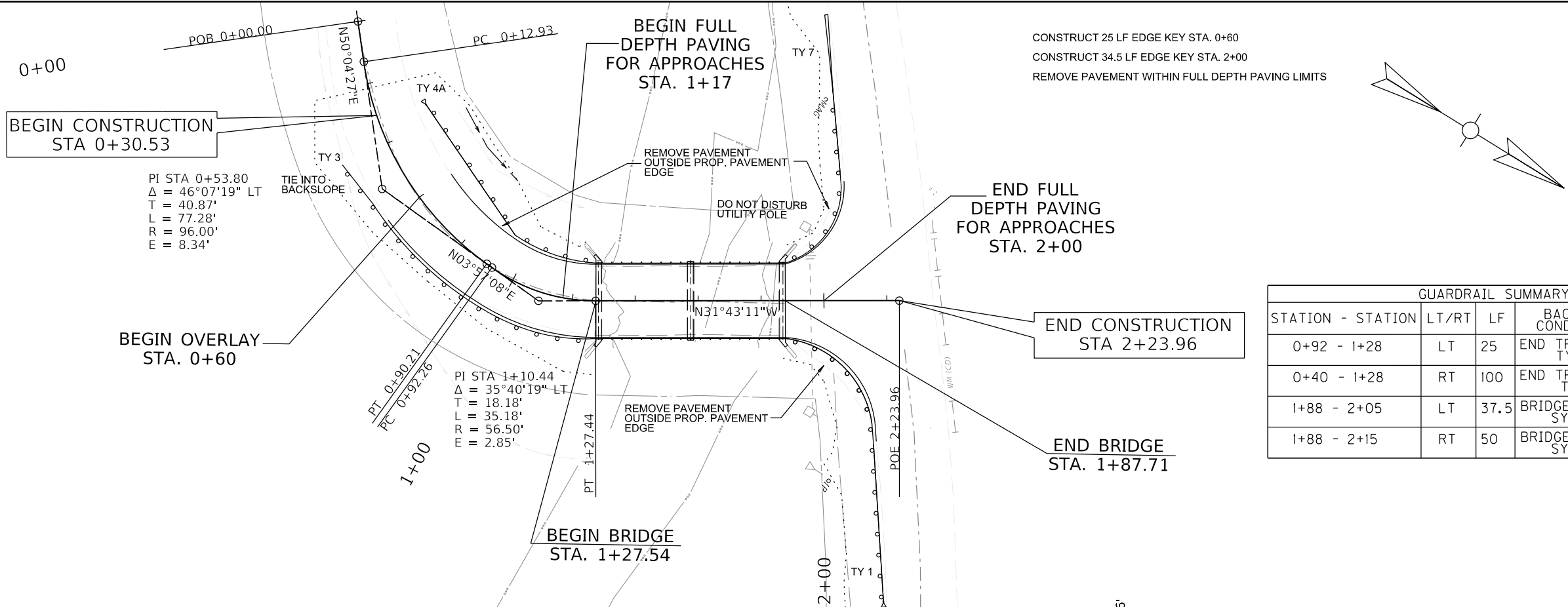
ROADWAY GENERAL SUMMARY						
ITEM	DESCRIPTION	NOTES	UNIT			TOTAL PROJECT
1987	DELINEATOR FOR GUARDRAIL B/W		EACH			7
2091	REMOVE PAVEMENT		SQ YD			96
2200	ROADWAY EXCAVATION	1	CU YD			20
2351	GUARDRAIL - STEEL W BEAM - S FACE		LF			212.5
2367	GUARDRAIL END TREATMENT TYPE 1		EACH			1
2371	GUARDRAIL END TREATMENT TYPE 7		EACH			1
2373	GUARDRAIL END TREATMENT TYPE 3		EACH			1
2391	GUARDRAIL END TREATMENT TYPE 4A		EACH			1
2399	EXTRA LENGTH GUARDRAIL POST	2	EACH			34
2569	DEMOBILIZATION		LS			1
2585	EDGE KEY		LF			60
2650	MAINTAIN AND CONTROL TRAFFIC		LS			1
2726	STAKING		LS			1
2731	REMOVE STRUCTURE	3	LS			1
5952	TEMPORARY MULCH		SQ YD			1064
5953	TEMP SEEDING AND PROTECTION		SQ YD			806
5963	INITIAL FERTILIZER		TON			0.04
5964	20-10-10 FERTILIZER		TON			0.02
5985	SEEDING AND PROTECTION		SQ YD			779
20191ED	OBJECT MARKER TY 3		EACH			2
20418ED	REMOVE & RELOCATE SIGNS		EACH			4
21289ED	LONGITUDINAL EDGE KEY		LF			53

- NOTES:
- 1EARTHWORK TOTALS
- EMBANKMENT18 CY
- EXCAVATION20 CY
- 2EXTRA LENGTH GUARDRAIL POSTS TO BE USED IN PLACE OF STANDARD LENGTH GUARDRAIL POSTS
- 3REMOVAL OF THE STRUCTURE INCLUDES THE REMOVAL OF THE CONCRETE SLAB, CONCRETE CURB, STEEL, SUPERSTRUCTURE AND ANY FRAMEWORK IN PLACE. REMOVAL OF THE BRIDGE SHALL INCLUDE THE TRANSPORTATION AND DISPOSAL OF ALL DEMOLISHED MATERIAL. UNLESS OTHERWISE DIRECTED BYTHE ENGINEER, ALL MATERIAL REMOVED FROM THE STRUCTURE SHALL BE THE PROPERTY OF THE CONTRACTOR.

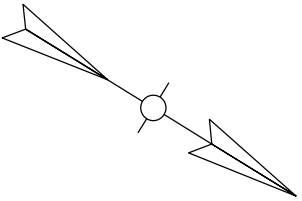
PAVING SUMMARY						
ITEM CODE	ITEM	TONS				PROJECT TOTAL
1	DGA BASE ④	65				65
100	ASPHALT SEAL AGGREGATE ⑤	1.0				1.0
103	ASPHALT SEAL COAT ⑥	0.1				0.1
212	CL2 ASPHALT BASE 1.00D PG64-22	13				13
301	CL2 ASPHALT SURFACE 0.38D PG64-22	18				18
356	ASPHALT MATERIAL FOR TACK ⑦	0.09				0.09

- NOTES:
- ④ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH
- ⑤ESTIMATED AT 20 LBS/SY
- ⑥ESTIMATED AT 2.4 LBS/SY
- ⑦ESTIMATED AT 0.84 LBS/SY
- ⑧TWO APPLICATIONS
- ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE

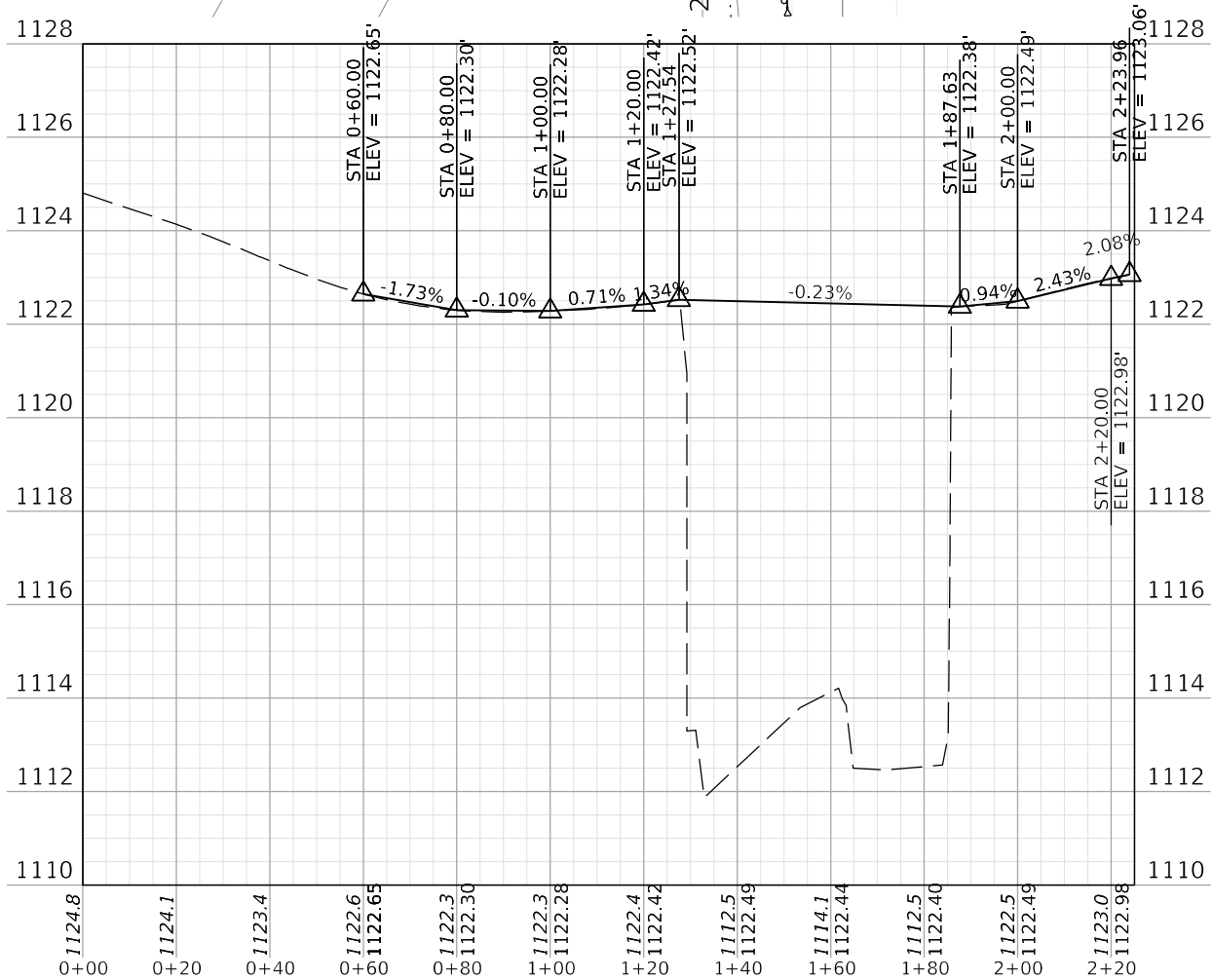
PAVING AREAS					
ITEM	KY 217				PROJECT TOTAL
	S	Q	U	A	R
FULL DEPTH DGA BASE	45.5				45.5
8.0" DGA BASE	70.5				70.5
3.0" CL2 ASPHALT BASE 1.00D PG64-22	76.5				76.5
1.50" CL2 ASPHALT SURFACE 0.38D PG64-22	216				216
ASPHALT MATERIAL FOR TACK	216				216
ASPHALT SEAL COAT ⑧	97				97
ASPHALT SEAL AGGREGATE ⑧	97				97



CONSTRUCT 25 LF EDGE KEY STA. 0+60
CONSTRUCT 34.5 LF EDGE KEY STA. 2+00
REMOVE PAVEMENT WITHIN FULL DEPTH PAVING LIMITS



GUARDRAIL SUMMARY				
STATION - STATION	LT/RT	LF	BACK END COND. TYPE	AHEAD END COND. TYPE
0+92 - 1+28	LT	25	END TREATMENT TY 4A	BRIDGE RAILING SYSTEM
0+40 - 1+28	RT	100	END TREATMENT TY 3	BRIDGE RAILING SYSTEM
1+88 - 2+05	LT	37.5	BRIDGE RAILING SYSTEM	END TREATMENT TY 7
1+88 - 2+15	RT	50	BRIDGE RAILING SYSTEM	END TREATMENT TY 1



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



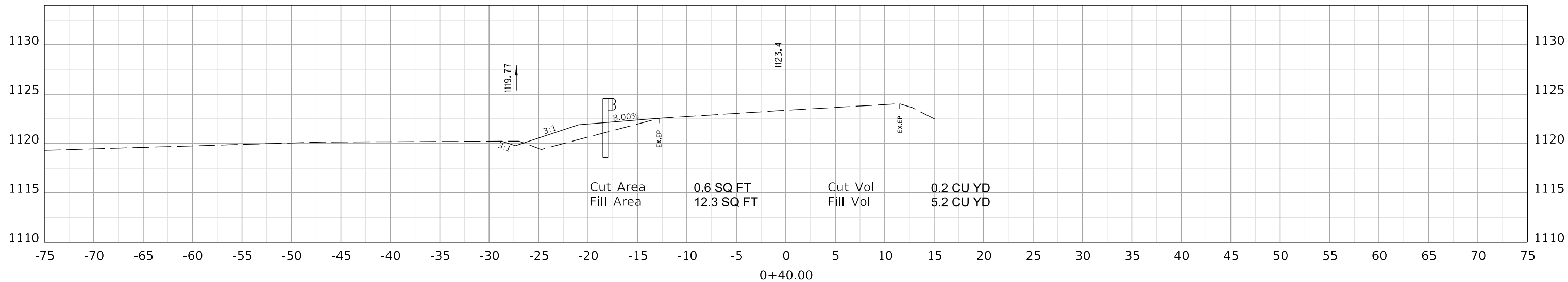
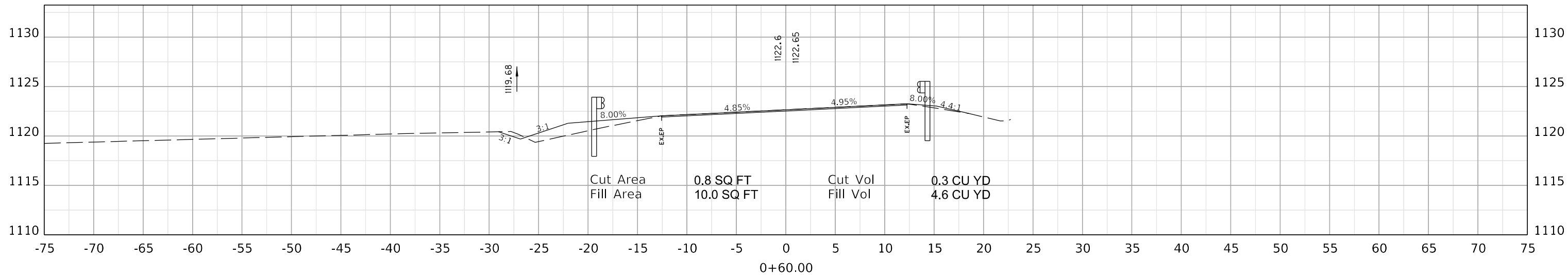
DRAWING TITLE: PLAN AND PROFILE SHEET

HORIZONTAL SCALE
SCALE: 1"=20'
VERTICAL SCALE
SCALE: 1"= 10'



STA. 0+00.00 TO STA. 2+23.96

ITEM NO. COUNTY OF BELL
SHEET NO. R4

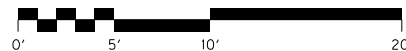


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: CROSS SECTIONS

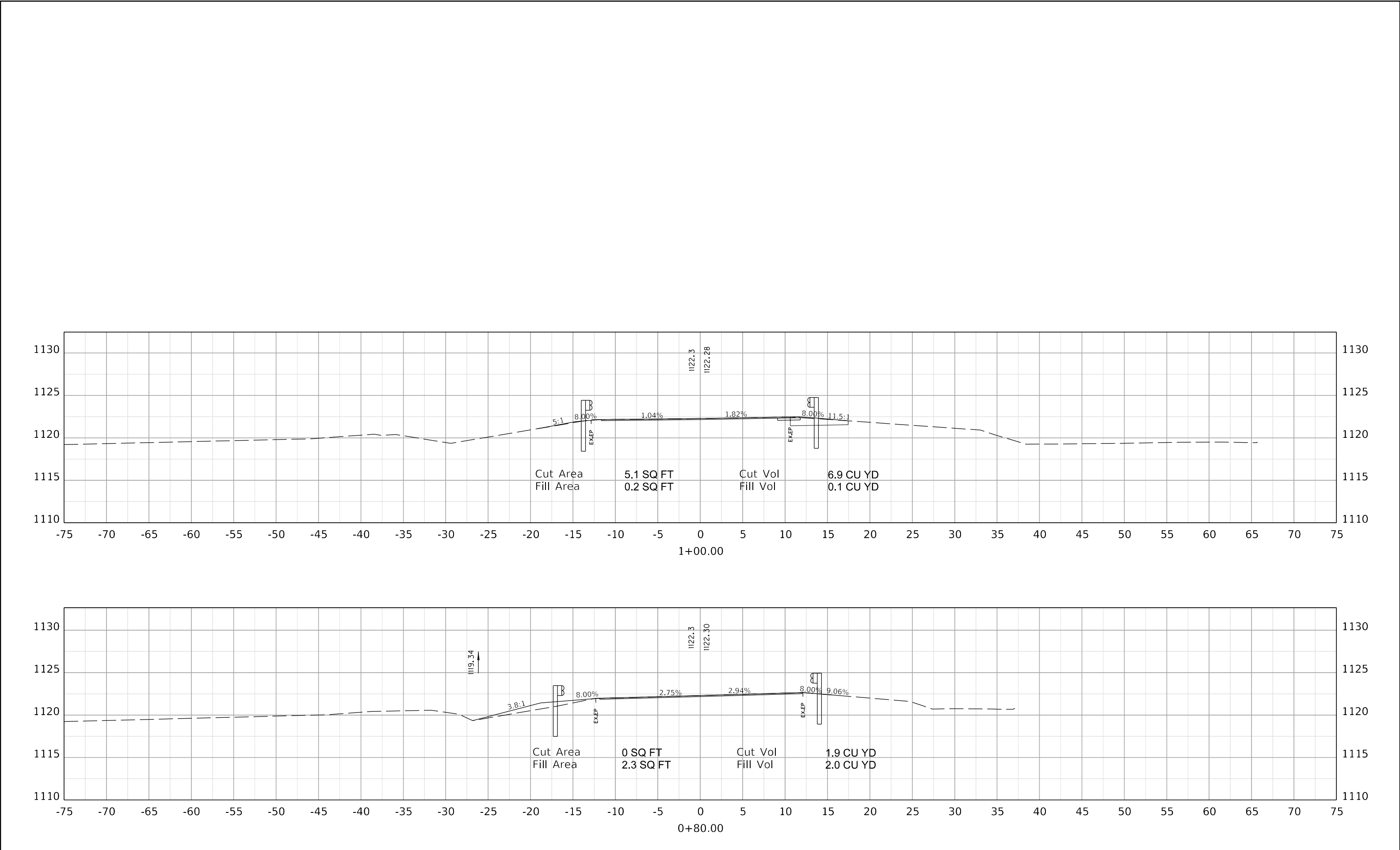
HORIZONTAL SCALE
SCALE: 1" = 5'

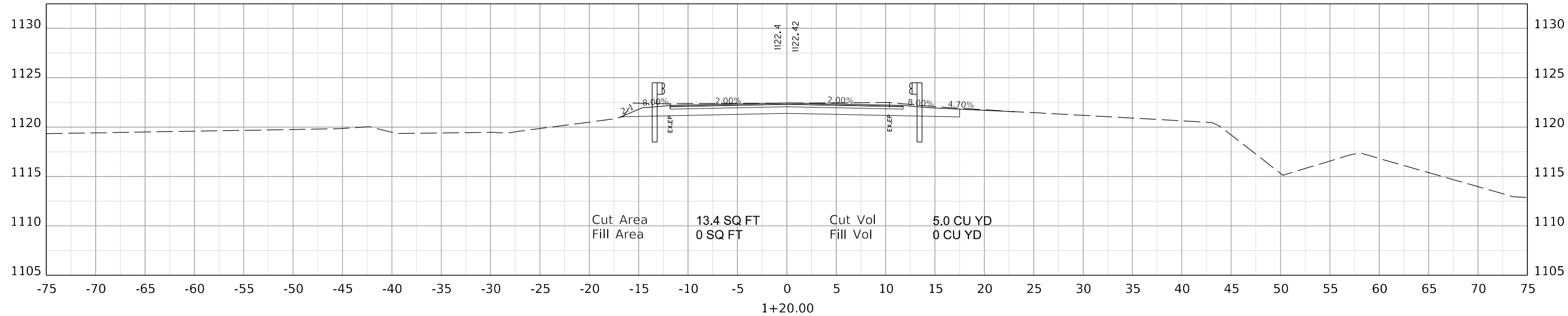
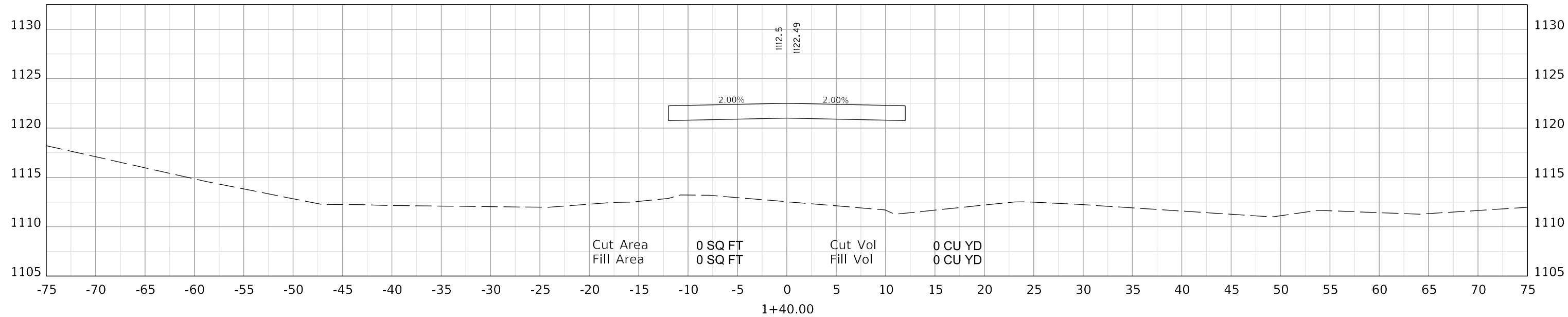


STA. 0+40.00 TO STA. 0+60.00

ITEM NO. COUNTY OF BELL

SHEET NO. X2



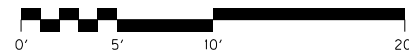


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: CROSS SECTIONS

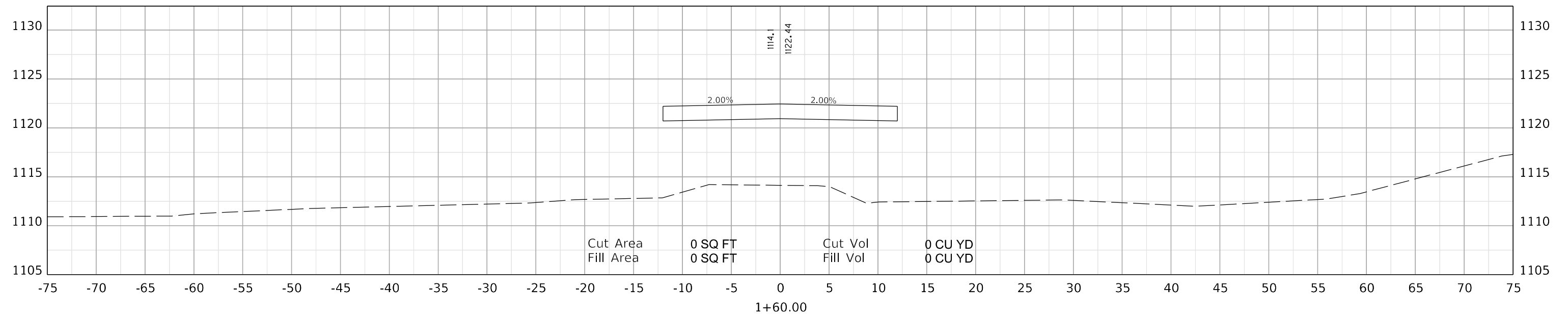
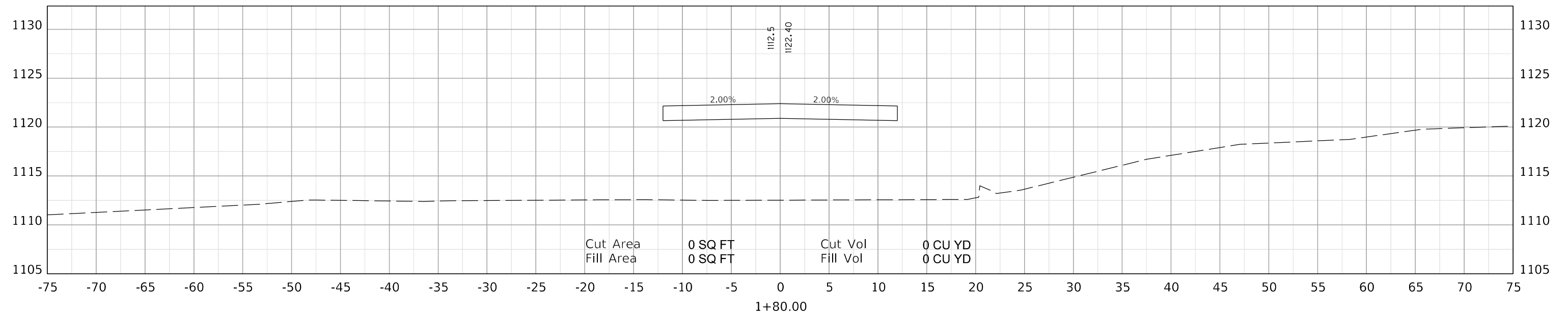
HORIZONTAL SCALE
SCALE: 1" = 5'



STA. 1+20.00 TO STA. 1+40.00

ITEM NO. COUNTY OF BELL

SHEET NO. X4

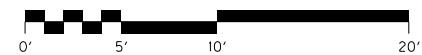


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: CROSS SECTIONS

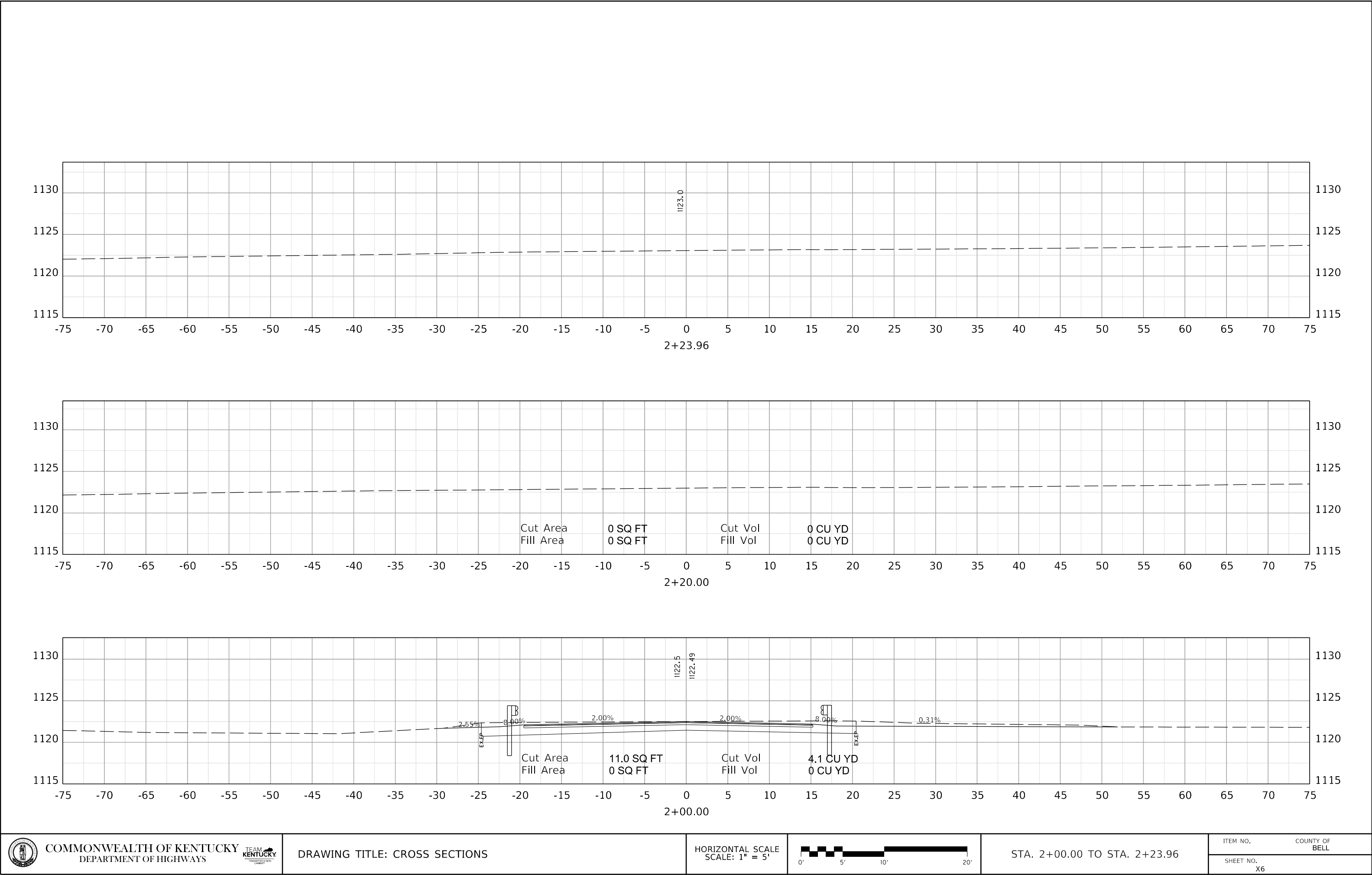
HORIZONTAL SCALE
SCALE: 1" = 5'



STA. 1+60.00 TO STA. 1+80.00

ITEM NO.	COUNTY OF BELL
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SHEET NO. X5



[illegible]

Special Note for Concrete Sealing

69 Embankment at Bridge End Bent Structures

BDP-001-06	Box Beam General Notes and References
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BDP-001-06	Box Beam General Notes and References
BDP-003-03	Box Beam Miscellaneous Details
BDP-004-04	Box Beam Tension Rod Details
BDP-006-05	Box Beam B12 & C812 Details
BGX-006-10	Stencils for Structures
BHS-011	Railing System Side Mounted MGS Details
BIE-001-14	Armored Edges
RBR-001-13	Steel Beam Guardrail ("W" Beam)
RBR-015-06	Steel Guardrail Posts

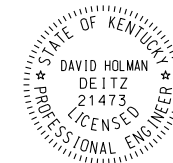
2019 Standard Specifications for Road and Bridge Construction.

10th Edition AASHTO LRFD Bridge Design Specifications.

ITEM NO.	BRIDGE ID	COUNTY OF
	007B00064N	BELL
ROUTE	SHEET NO.	DRAWING NUMBER
KY 217	S01	28975

[illegible]

① INCLUDES COST TO REMOVE DEBRIS LODGED AGAINST SUBSTRUCTURE CHANNEL.



David H. Datz



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY



DATE:	MAY, 2025	CHECKED BY
DESIGNED BY:	D.H. DEITZ	L.A. CARLISLE
DETAILED BY:	M.B. HAGGARD	D.H. DEITZ

TITLE SHEET

CROSSING
BROWNIES CREEK

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 10TH EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

LIVE LOAD:

THIS BRIDGE IS DESIGNED FOR KYHL-93 WHICH IS 1.25 TIMES THE HL-93 LIVE LOAD.

FUTURE WEARING SURFACE:

THE BRIDGE HAS BEEN DESIGNED FOR A FUTURE WEARING SURFACE WEIGHT OF 15 PSF.

MATERIAL DESIGN SPECIFICATIONS:

FOR CLASS "A" REINFORCED CONCRETE: F'C = 3500 PSI
FOR CLASS "AA" REINFORCED CONCRETE: F'C = 4000 PSI
FOR STEEL REINFORCEMENT: FY = 60,000 PSI

MATERIAL SPECIFICATIONS:

AASHTO SPECIFICATIONS OR ASTM, CURRENT EDITION, AS DESIGNATED BELOW SHALL GOVERN THE MATERIALS FURNISHED.

AASHTO M-31 DEFORMED AND PLAIN BILLET-STEEL FOR CONCRETE REINFORCEMENT, GRADE 60

CONCRETE:

CLASS "AA" CONCRETE IS TO BE USED THROUGHOUT THE SLAB. PRESTRESSED GIRDER CONCRETE SHALL BE IN ACCORDANCE WITH THE STANDARD DWG. BDP-006-05 AND BDP-001-06. ALL OTHER CONCRETE SHALL BE CLASS "A" UNLESS OTHERWISE NOTED.

DIMENSIONS:

DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEGREES F. LAYOUT DIMENSIONS ARE HORIZONTAL MEASUREMENTS. STATIONING AND ELEVATIONS ARE IN FEET.

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 BAR FOR PURPOSES OF BEND DIAMETERS.

BEVELED EDGES:

ALL EXPOSED EDGES SHALL BE BEVELED ¾" UNLESS OTHERWISE SHOWN.

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.

CONSTRUCTION PHASING AND MAINTENANCE OF TRAFFIC:

THE CONTRACTOR SHALL ARRANGE TO DO THE WORK IN ACCORDANCE WITH THE PLANS AND MAINTENANCE OF TRAFFIC NOTES AS SHOWN ON THE ROADWAY PLANS DURING CONSTRUCTION OF THIS PROJECT.

GUARDRAIL:

SIDE MOUNTED MGS RAILING SYSTEM SHALL BE INSTALLED PER STANDARD DRAWING BHS-011.

SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS THAT ARE REQUIRED BY THE PLANS AND SPECIFICATIONS DIRECTLY TO THE CONSULTANT. IF CHANGES IN THE DESIGN PLANS ARE PROPOSED BY A FABRICATOR OR SUPPLIER, SUBMIT THOSE CHANGES TO THE CONSULTANT. SUBMIT ALL FINAL, APPROVED SHOP DRAWINGS TO THE DIVISION OF STRUCTURAL DESIGN.

UTILITIES:

BEFORE BEGINNING WORK, LOCATE ALL EXISTING UTILITIES. CONSIDER LOCATION OF UTILITIES SHOWN ON THE DRAWINGS TO BE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. THE DEPARTMENT DOES NOT WARRANT THE LOCATIONS AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS. THE CONTRACTOR MUST MAKE HIS OWN DETERMINATION. EXCEPT AS SHOWN ON THE PLANS, WORK AROUND AND DO NOT DISTURB EXISTING UTILITIES.

VERIFYING FIELD CONDITIONS:

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE ORDERING MATERIAL. NEW MATERIAL THAT IS UNSUITABLE BECAUSE OF VARIATIONS IN THE EXISTING STRUCTURE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION IDENTIFICATION:

APPLY STENCILS FOR STRUCTURES IN ACCORDANCE WITH STANDARD DRAWING BGX-006, c.e. THE CONTRACTOR SHALL FURNISH ALL PLANS, EQUIPMENT, AND LABOR NECESSARY TO DO THE WORK FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

TEMPORARY SUPPORTS:

TEMPORARY SUPPORTS OR SHORING WILL NOT BE PERMITTED UNDER THE BEAMS WHEN POURING THE CONCRETE DECK SLAB OR WHEN TAKING "TOP OF BEAM" ELEVATIONS.

CONCRETE SEALING:

APPLY CONCRETE SEALER IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE SEALING TO THE SUPERSTRUCTURE LIMITS SHOWN ON THE SUPERSTRUCTURE DETAIL SHEET.

SPECIFICATIONS CONTRARY TO THE STANDARD DRAWINGS:

WHERE THE PLANS AND SPECIFICATIONS DIFFER FROM THE STANDARD DRAWINGS, THE PLANS AND SPECIFICATIONS SHALL CONTROL.

PAYMENT FOR PRECAST CONCRETE BEAMS:

THE BASIS OF PAYMENT FOR THE PRESTRESSED CONCRETE BEAMS SHAL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF BEAM, IN ACCORDANCE WITH THE SPECIFICATIONS.

ARMORED EDGE:

FABRICATE ARMORED EDGE TO MATCH CROSS SLOPE AND PARABOLIC CROWN AT EACH END OF BRIDGE.

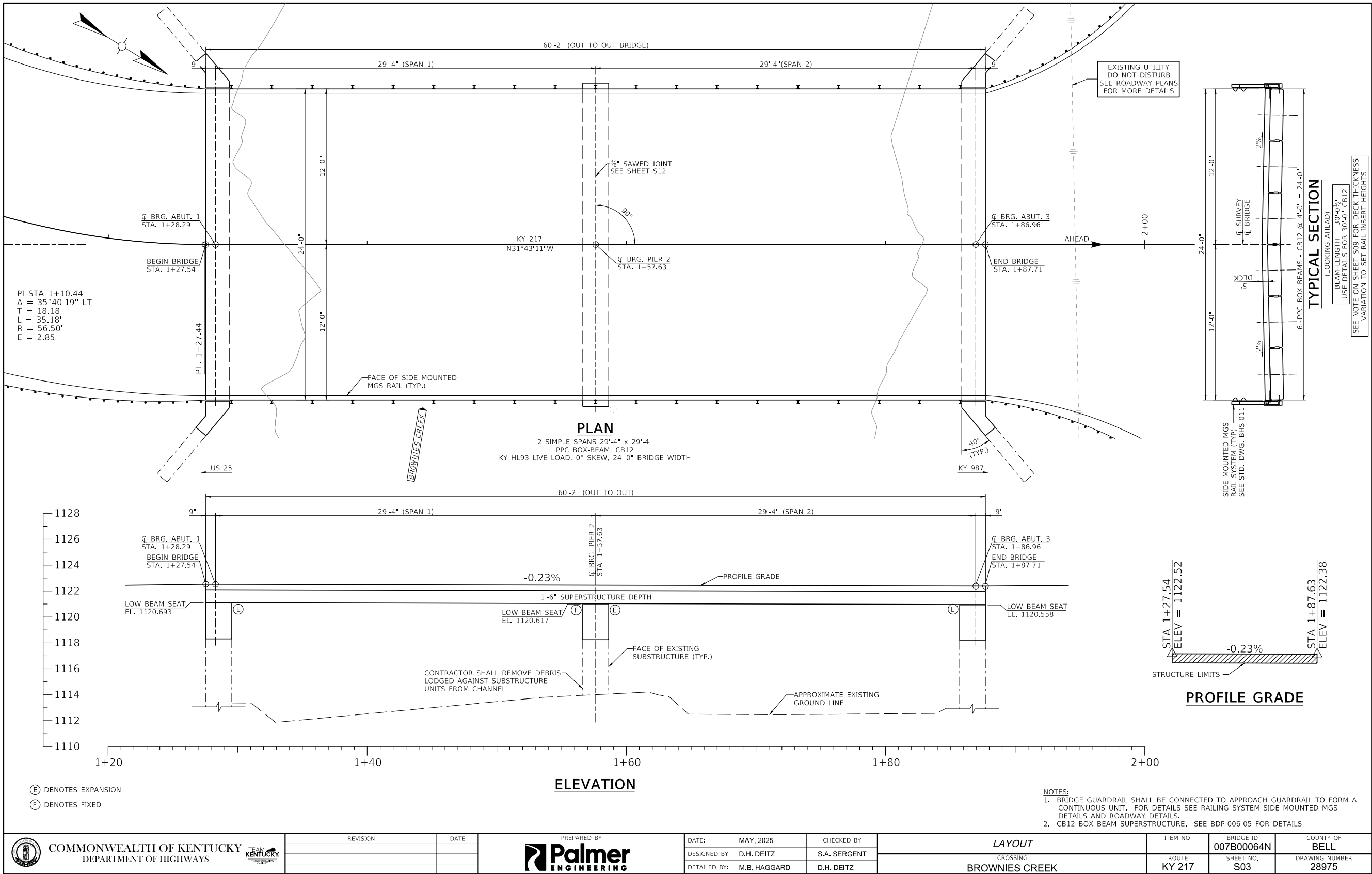
 COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS TEAM KENTUCKY PROGRESS THROUGH QUALITY	REVISION	DATE	PREPARED BY 	DATE: MAY, 2025	CHECKED BY:	GENERAL NOTES	ITEM NO.	BRIDGE ID	COUNTY OF
				DESIGNED BY: D.H. DEITZ	S.A. SERGENT	CROSSING	ROUTE	SHEET NO.	DRAWING NUMBER
				DETAILED BY: M.B. HAGGARD	D.H. DEITZ	BROWNIES CREEK	KY 217	S02	28975

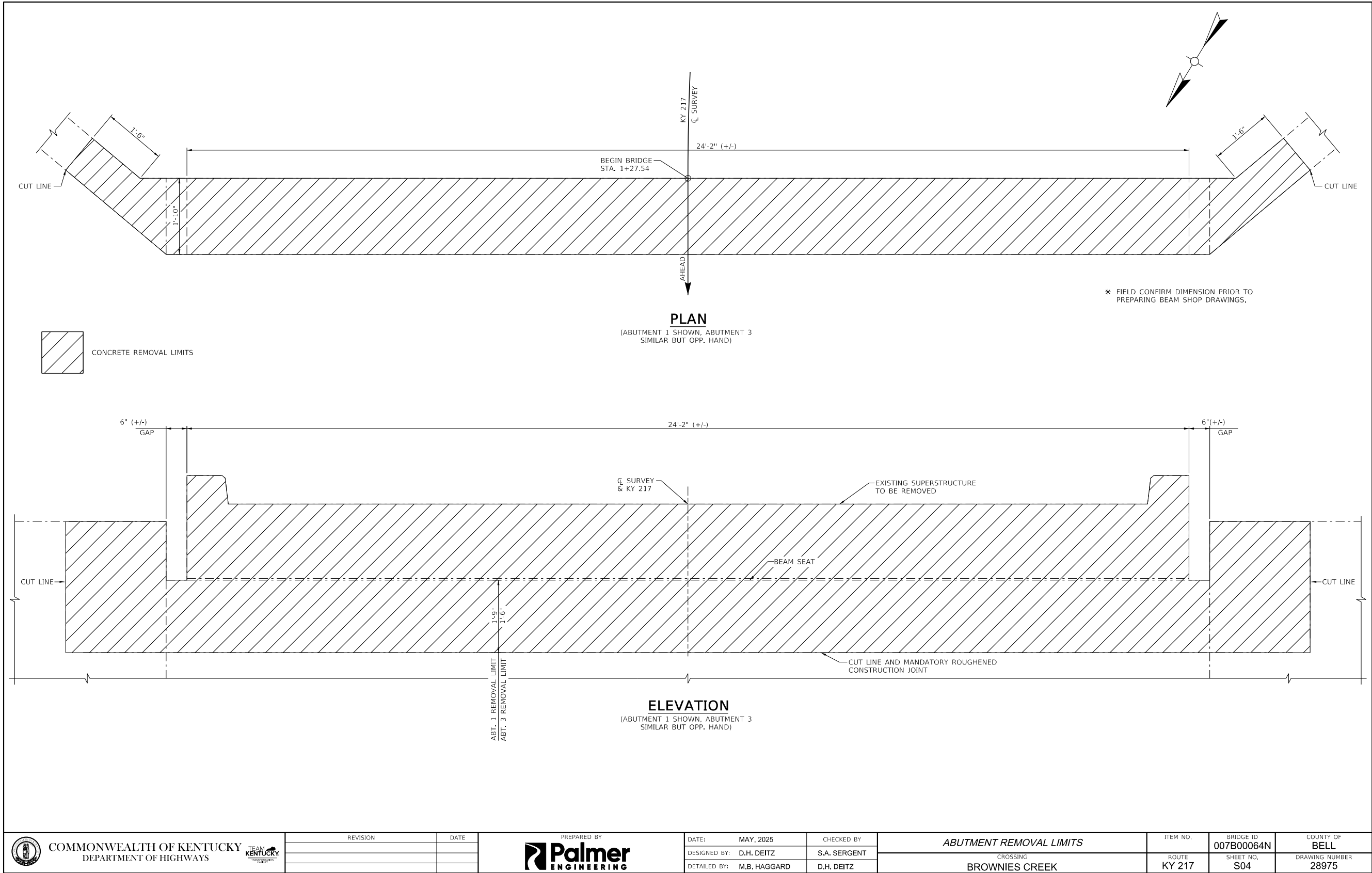
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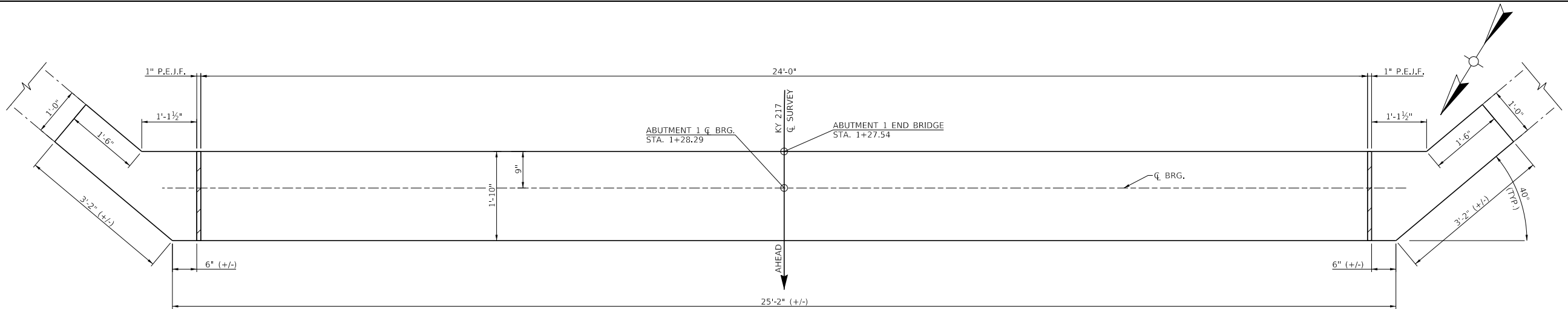
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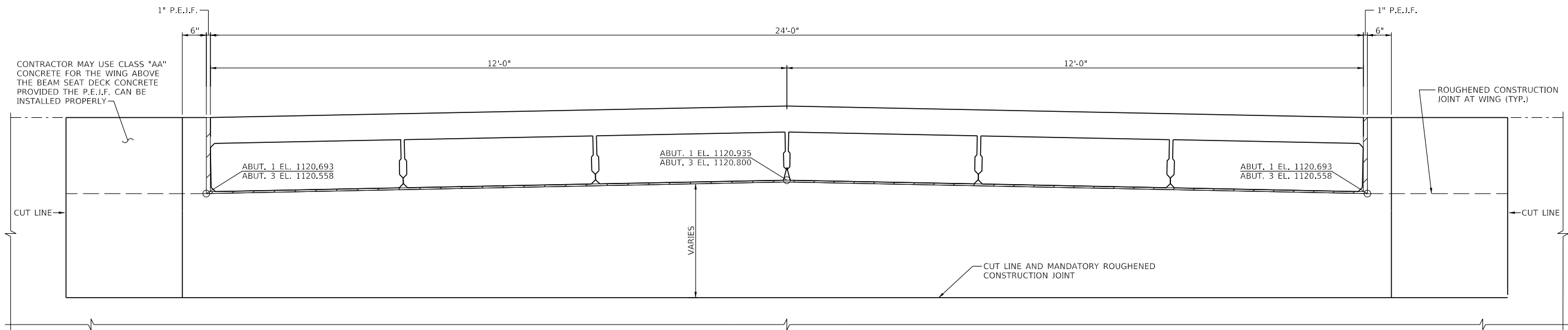
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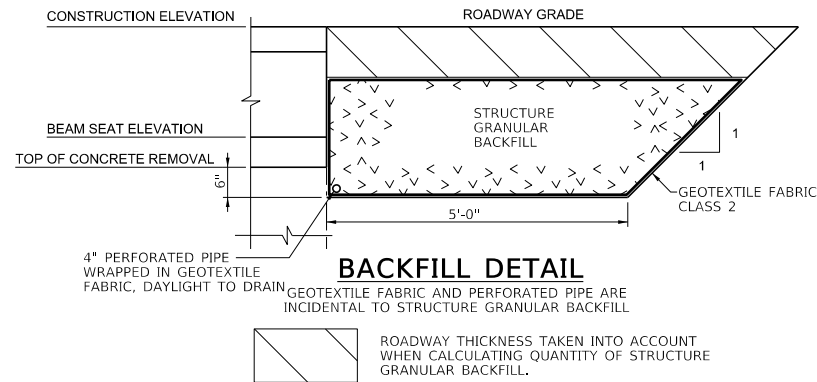




PLAN
(ABUTMENT 1 SHOWN, ABUTMENT 3
SIMILAR BUT OPP. HAND)

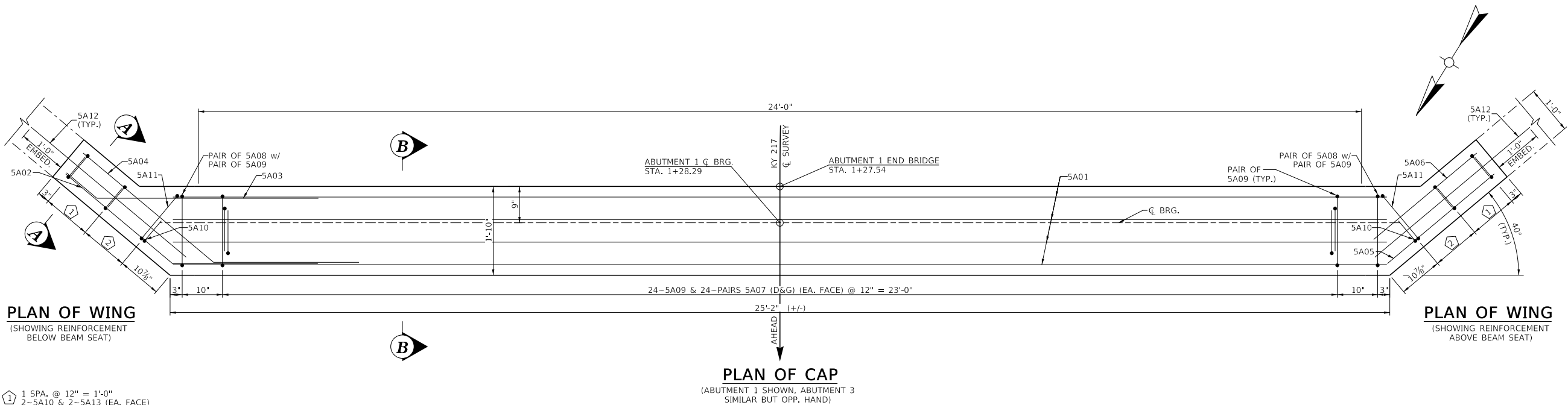


ELEVATION
(ABUTMENT 1 SHOWN, ABUTMENT 3
SIMILAR BUT OPP. HAND)

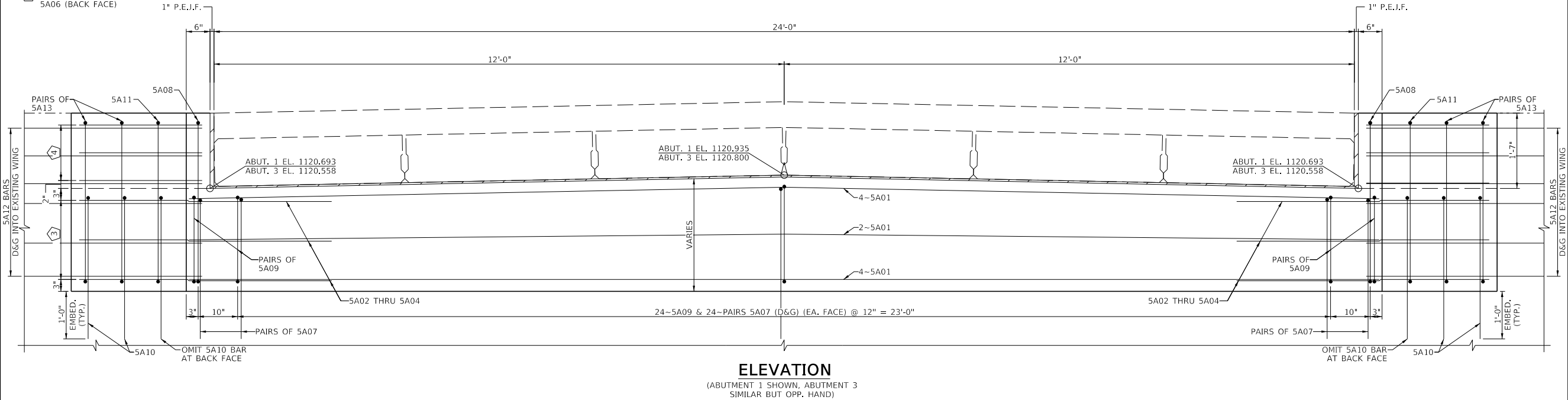


BACKFILL DETAIL

 COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS		REVISION	DATE		DATE:	MAY, 2025	CHECKED BY:	PROPOSED ABUTMENT		ITEM NO.	BRIDGE ID	COUNTY OF
					DESIGNED BY:	D.H. DEITZ	S.A. SERGENT	CROSSING		ROUTE	007B00064N	BELL
					DETAILED BY:	M.B. HAGGARD	D.H. DEITZ	BROWNIES CREEK		SHEET NO.	S05	DRAWING NUMBER
		OpenRoads Designer v23.00.01.11										28975



- 1 SPA. @ 12" = 1'-0"
2~5A10 & 2~5A13 (EA, FACE)
- 1 SPA. @ 12" = 1'-0"
2~5A11 & 1~5A10 (F.F.)
- 2 EQ. SPA. 5A02,
5A03, OR 5A04.
SEE PLAN VIEW
- 1 SPA. @ 8" = 8"
5A05 (FRONT FACE)
5A06 (BACK FACE)



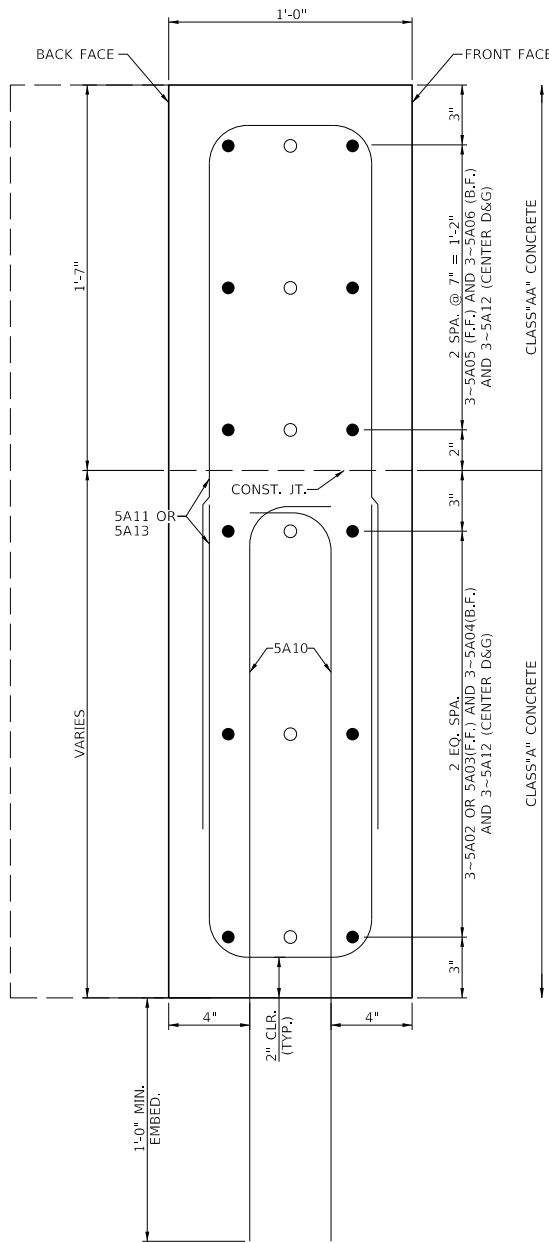
 COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS		REVISION		DATE	PREPARED BY		DATE:	MAY, 2025	CHECKED BY:	ABUTMENT CAP & WINGS		ITEM NO.	BRIDGE ID	COUNTY OF
						DESIGNED BY:	D.H. DEITZ	S.A. SERGENT	CROSSING		ROUTE	SHEET NO.	DRAWING NUMBER	
						DETAILED BY:	M.B. HAGGARD	D.H. DEITZ	BROWNIES CREEK		KY 217			
openRoads Designer v23.00.01.11		USER: michael-h		DATE PLOTTED: 05:43 PM on 04/30/2025		FILE NAME: pw:\PEWINPW04.pewin.private.palmernet.com:Palmer Engineering\Documents\Kentucky\Trans\STW\Bridge_Maint_2024\LA5_011_Bell_KY_217\Struct\Final_plans\Dgn\007B00064N_S06_ABUTMENT_03.dgn								

OpenRoads Designer v23.00.01.11

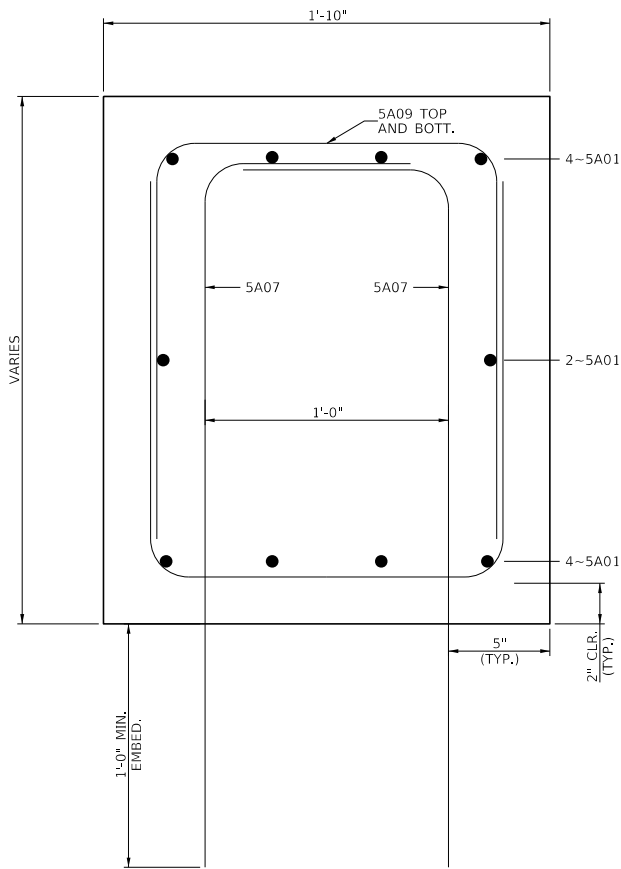
USER: michael-h

DATE PLOTTED: 05:43 PM on 04/30/2025

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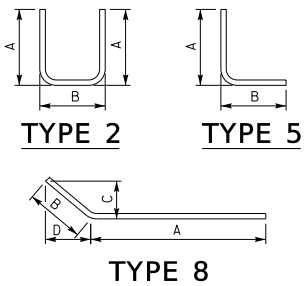


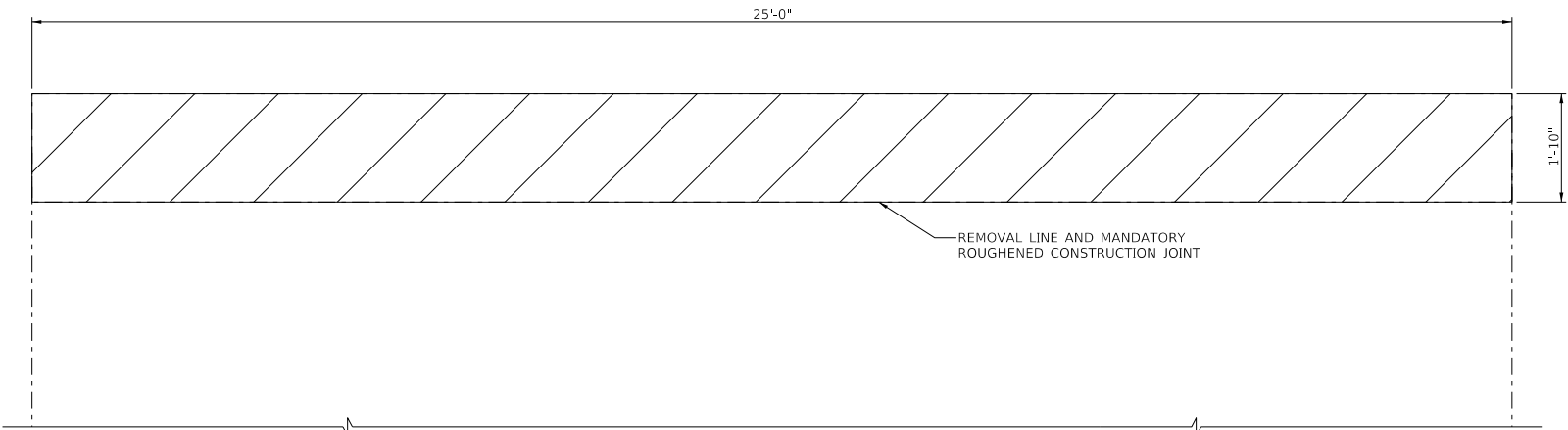
SECTION A-A



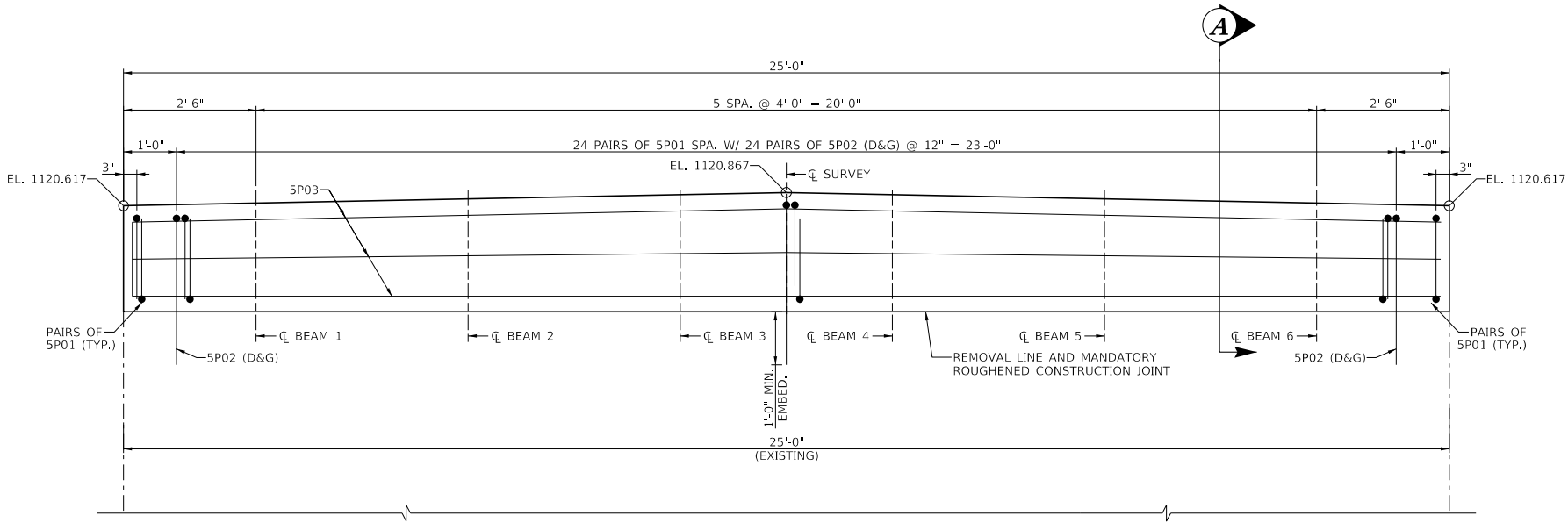
SECTION B-B

BILL OF REINFORCEMENT - ABUTMENT 1									
MARK	TYPE	NUMBER	SIZE	LENGTH	LOCATION	a	b	c	d
A501(E)	STR	10	#5	24'-10"	ABUTMENT				
A502(E)	8	6	#5	6'-10"	ABUTMENT	4'-0"	2'-10"	1'-10"	2'-2"
A503(E)	8	6	#5	5'-9"	ABUTMENT	5'-0"	0'-9"	0'-5 3/4"	0'-7"
A504(E)	8	6	#5	7'-6"	ABUTMENT	4'-0"	3'-6"	2'-3"	2'-8"
A505(E)	STR	6	#5	2'-9"	ABUTMENT				
A506(E)	STR	6	#5	2'-9"	ABUTMENT				
A507(E)	5	52	#5	2'-9"	ABUTMENT	2'-0"	0'-9"		
A508(E)	2	2	#5	6'-6"	ABUTMENT	2'-6"	1'-6"		
A509(E)	2	52	#5	3'-8"	ABUTMENT	1'-1"	1'-6"		
A510(E)	5	10	#5	3'-0"	ABUTMENT	2'-6"	0'-6"		
A511(E)	2	4	#5	6'-2"	ABUTMENT	2'-6"	1'-2"		
A512(E)	STR	12	#5	3'-6"	ABUTMENT				
A513(E)	2	8	#5	5'-8"	ABUTMENT	2'-6"	0'-8"		

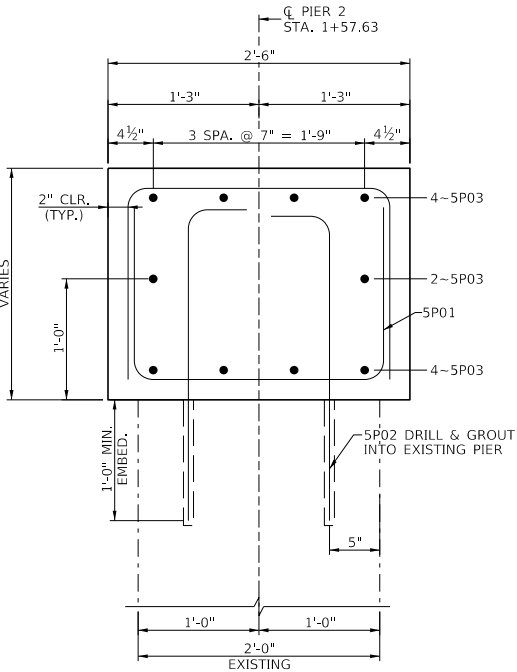




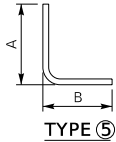
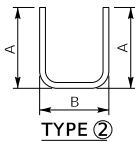
ELEVATION
(PIER REMOVAL LIMITS)



ELEVATION
(NEW CONSTRUCTION)



SECTION A



BILL OF REINFORCEMENT - PIER							
MARK	TYPE	NUMBER	SIZE	LENGTH	LOCATION	"A"	"B"
5P01(E)	2	52	#5	4'-6"	PIER 2	1'-2"	2'-2"
5P02(E)	5	48	#5	2'-8"	PIER 2	2'-0"	8"
5P03(E)	STR	10	#5	24'-8"	PIER 2		



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION

DATE

PREPARED BY



DATE:

MAY, 2025

CHECKED BY

DESIGNED BY:

D.H. DEITZ

S.A. SERGENT

DETAILED BY:

M.B. HAGGARD

D.H. DEITZ

PIER -2 REPAIR

CROSSING
BROWNIES CREEK

ITEM NO.

ROUTE

KY 217

BRIDGE ID

007B00064N

SHEET NO.

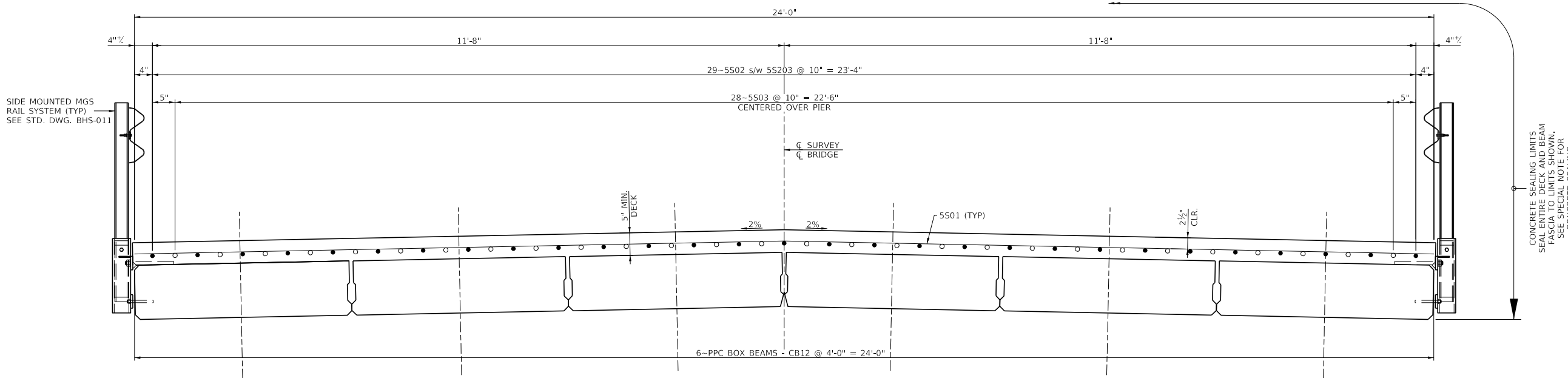
S08

COUNTY OF

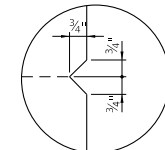
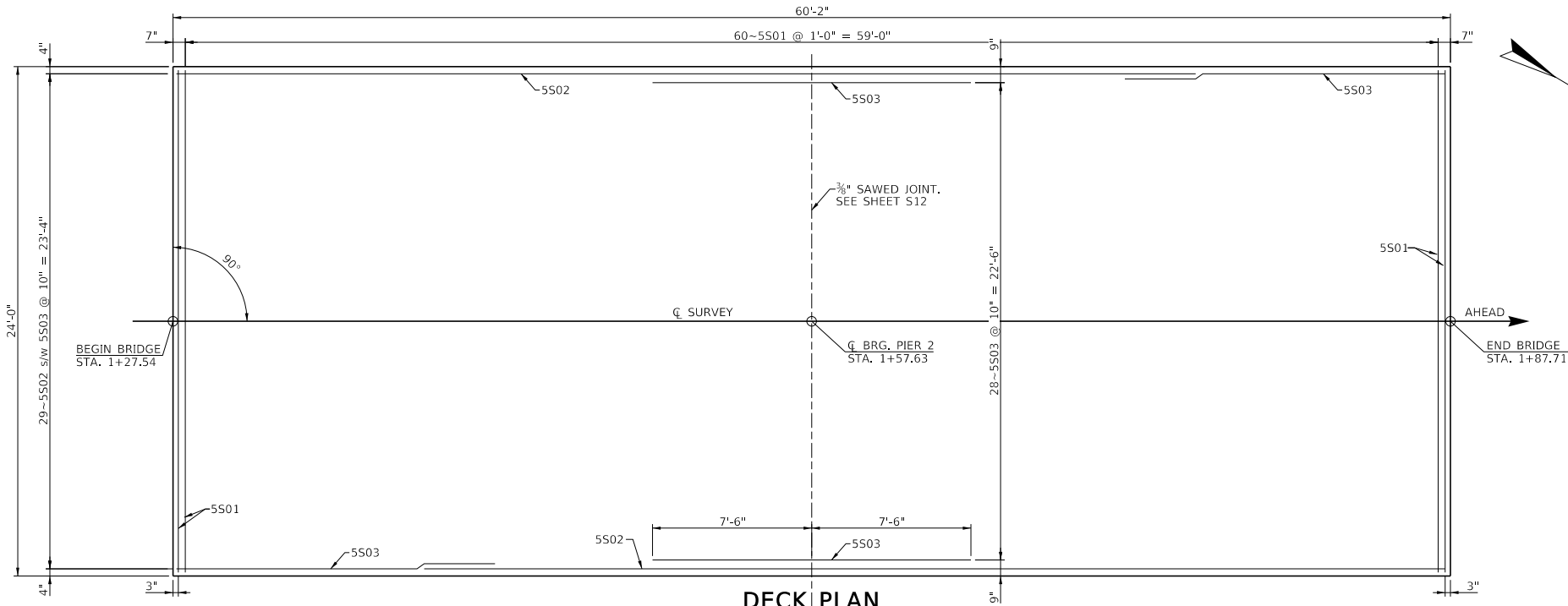
BELL

DRAWING NUMBER

28975



TYPICAL SECTION
(LOOKING AHEAD)



"V-GROOVE"
RUSTICATION
(N.T.S.)

MINIMUM LAP SPLICE
#5 BARS - 3'-0"

NOTES:

- THE ENTIRE DECK SHALL BE POURED CONTINUOUSLY FROM END TO END OF THE SLAB BEFORE THE CONCRETE IS ALLOWED TO SET. THE CONCRETE SHALL REMAIN PLASTIC THROUGHOUT THE CONCRETE PLACEMENT.
- CONTRARY TO THE STANDARD DRAWING (5" THICKNESS), THE CONSTRUCTION ELEVATIONS WILL CAUSE THE SLAB TO BE APPROXIMATELY 6 1/2" THICK AT EACH SUBSTRUCTURE AND 5 3/4" THICK AT THE CENTER OF THE SPAN. THIS IS HOW THE QUANTITY OF CLASS "AA" CONCRETE IS CALCULATED. THERE SHOULDN'T BE ANY ADDITIONAL CONCRETE DUE TO THE MAX. AND MIN. ALLOWABLE SLAB DEPTHS SHOWN ON THE CONSTRUCTION ELEVATIONS.

BILL OF REINFORCEMENT - DECK					
MARK	TYPE	NUMBER	SIZE	LENGTH	LOCATION
5S01(e)	STR.	62	#5	23'-8"	DECK
5S02(e)	STR.	29	#5	48'-0"	DECK
5S03(e)	STR.	57	#5	15'-0"	DECK



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION

DATE

PREPARED BY

Palmer
ENGINEERING

DATE:

MAY, 2025

CHECKED BY

S.A. SERGENT

DESIGNED BY:

D.H. DEITZ

DETAILED BY:

M.B. HAGGARD

D.H. DEITZ

DECK DETAILS

CROSSING
BROWNIES CREEK

ITEM NO.

ROUTE

KY 217

BRIDGE ID

007B00064N

SHEET NO.

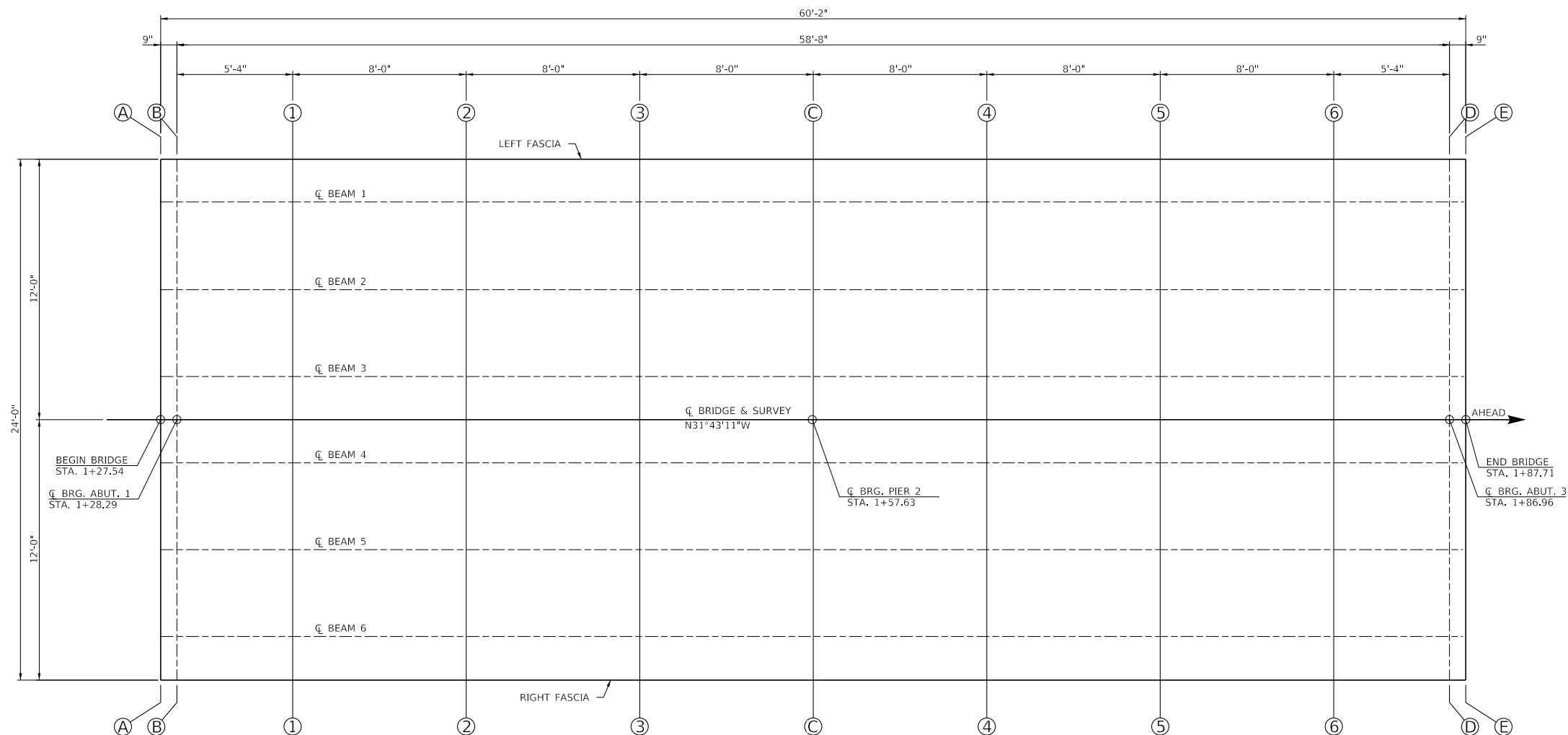
S09

COUNTY OF

BELL

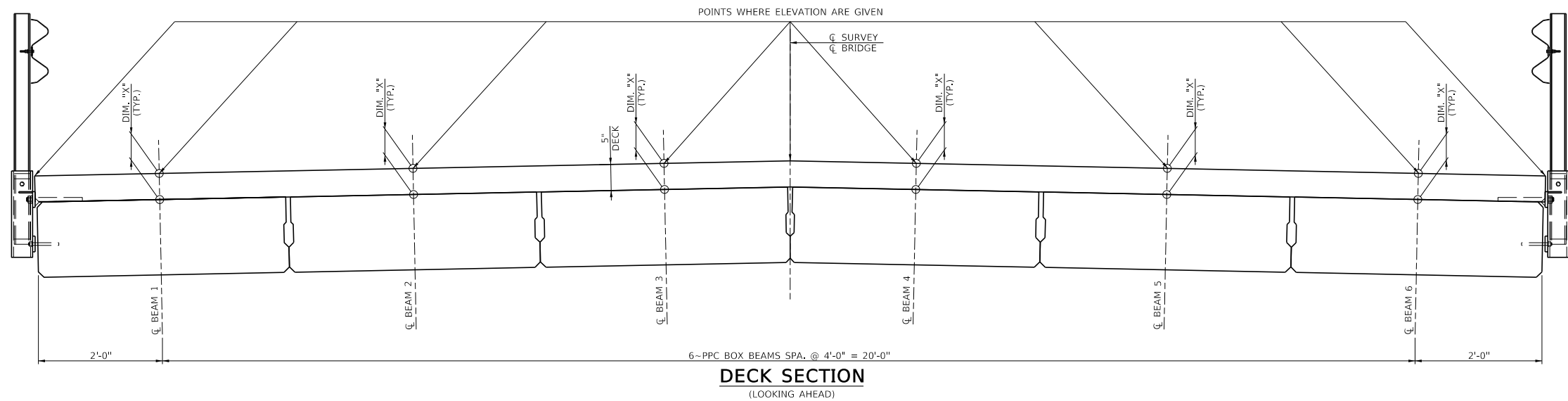
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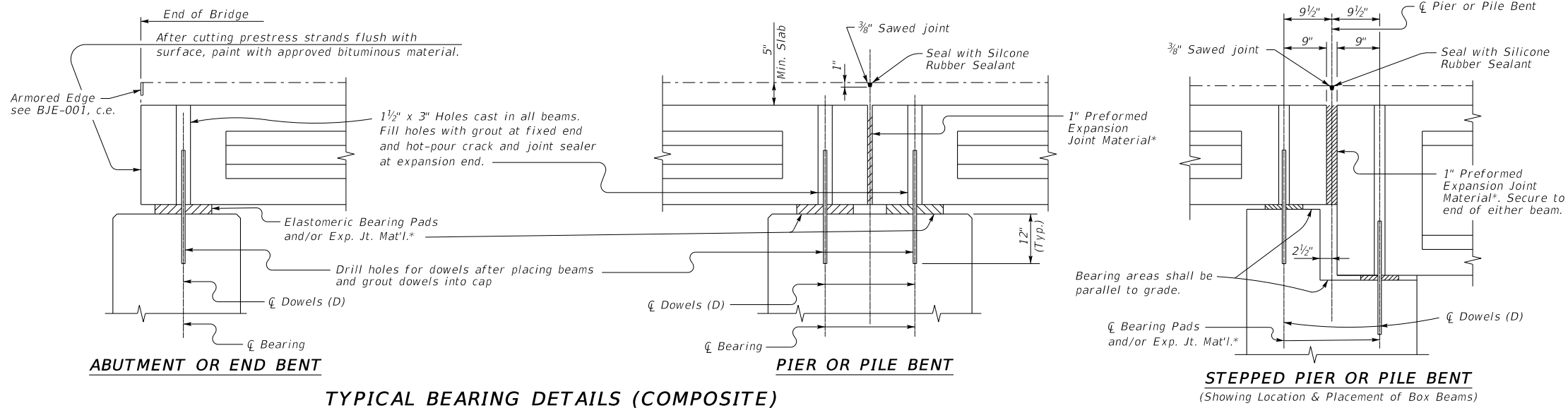
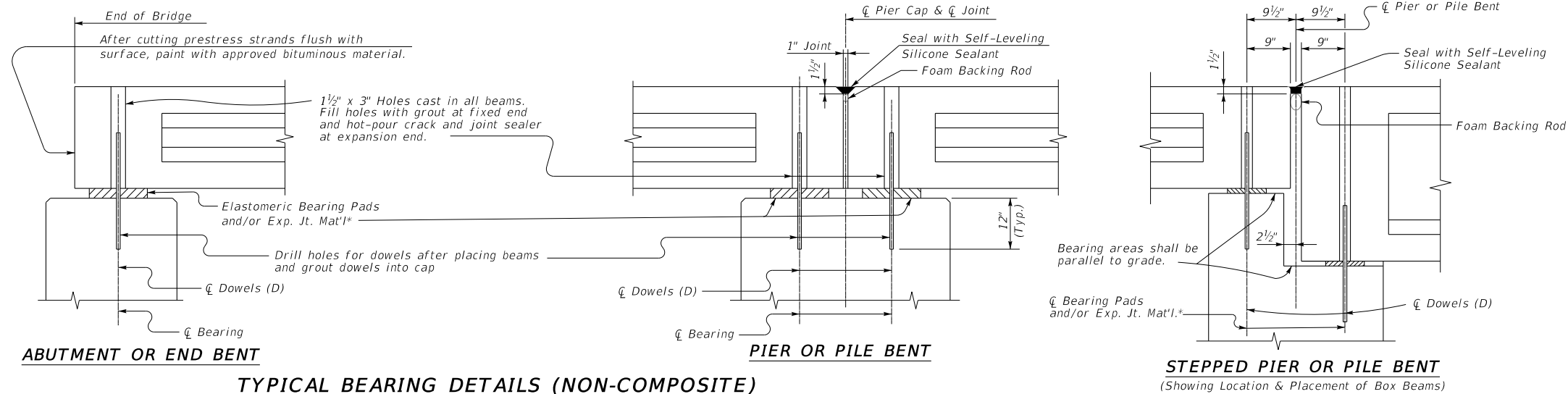
28975



CONSTRUCTION ELEVATION GRID PLAN

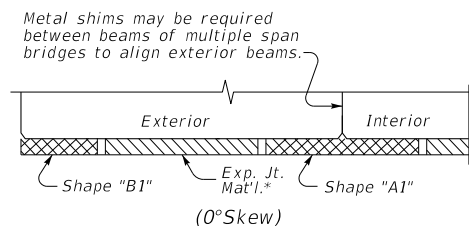
CONSTRUCTION ELEVATIONS																									
LINE	LEFT FASCIA			CL BEAM 1			CL BEAM 2			CL BEAM 3			PROFILE GRADE	CL BEAM 4			CL BEAM 5			CL BEAM 6			RIGHT FASCIA		
	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	TOP OF BEAM	DIM, "X"	CONST. ELEV.	TOP OF BEAM	DIM, "X"
A-A	1122.280			1122.320			1122.400			1122.480			1122.520	1122.480			1122.400			1122.320			1122.280		
B-B	1122.278			1122.318			1122.398			1122.478			1122.518	1122.478			1122.398			1122.318			1122.278		
1-1	1122.272			1122.312			1122.392			1122.472			1122.512	1122.472			1122.392			1122.312			1122.272		
2-2	1122.263			1122.303			1122.383			1122.463			1122.503	1122.463			1122.383			1122.303			1122.263		
3-3	1122.238			1122.278			1122.358			1122.438			1122.478	1122.438			1122.358			1122.278			1122.238		
C-C	1122.211			1122.251			1122.331			1122.411			1122.451	1122.411			1122.331			1122.251			1122.211		
4-4	1122.202			1122.242			1122.322			1122.402			1122.442	1122.402			1122.322			1122.242			1122.202		
5-5	1122.189			1122.229			1122.309			1122.389			1122.429	1122.389			1122.309			1122.229			1122.189		
6-6	1122.162			1122.202			1122.282			1122.362			1122.402	1122.362			1122.282			1122.202			1122.162		
D-D	1122.143			1122.183			1122.263			1122.343			1122.383	1122.343			1122.263			1122.183			1122.143		
E-E	1122.142			1122.182			1122.262			1122.342			1122.382	1122.342			1122.262			1122.182			1122.142		





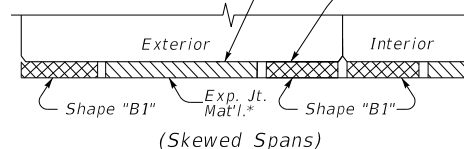
*Expansion Joint Material:
AASHTO M153
Type-I Sponge Rubber

** Preformed Neoprene
Rubber Sheet:
50 Durometer
AASHTO M251, Grade 3

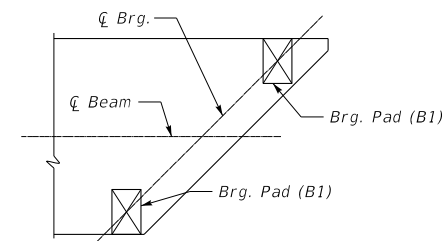


For Elastomeric Bearing Pad Details of Shapes A1 & B1, see Std. Dwg. BBP-003, c.e.

Preformed Expansion Joint Material 1'-6" wide placed between Bearing Pads and beneath dowel pin holes to prevent the escape of mortar or joint sealer. Expansion joint material* may be cemented to bottom of beam.



Metal shims (8" x 12") may be required over bearing pads on skewed bridges to insure uniform bearing.



PAD PLACEMENT FOR SKEWS
Pads "B1" are to always be placed perpendicular to ℄ beam with center of pad over ℄ bearing.

GENERAL NOTES

Provide metal shims conforming to ASTM A36 and galvanize in accordance with ASTM A123. As alternates, polymer, or elastomer shims may be used. Include the cost of furnishing and placing these shims in the price per beam.

SHOWING PADS FOR BEAM TYPES B27-B42 & CB27-CB42
Use ½" x 1'-6" preformed neoprene rubber sheet** for beam types B12-B21 & CB12-CB21 for bearing.

SUBMITTED _____ 10/25/2024
DIVISION DIRECTOR DATE



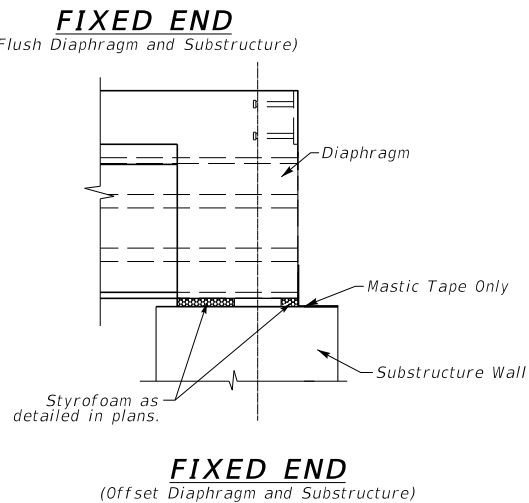
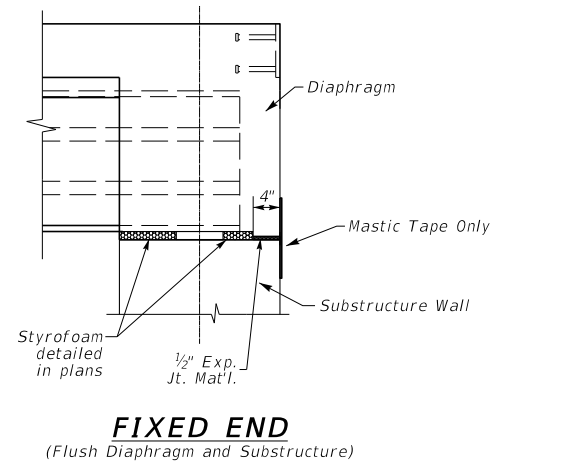
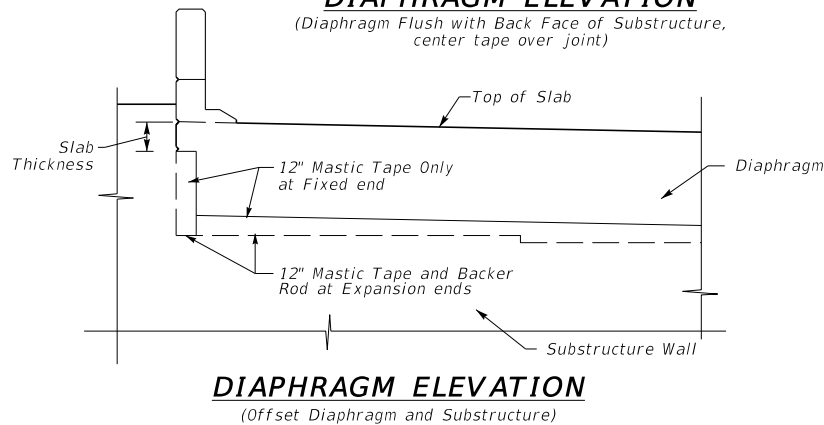
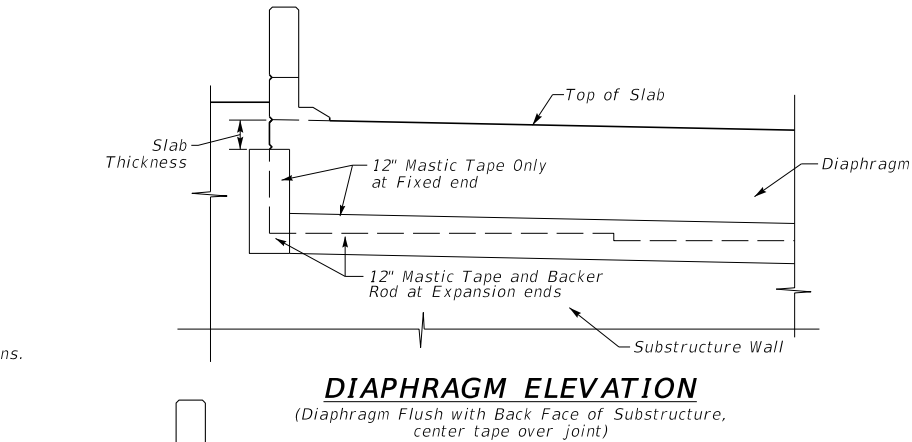
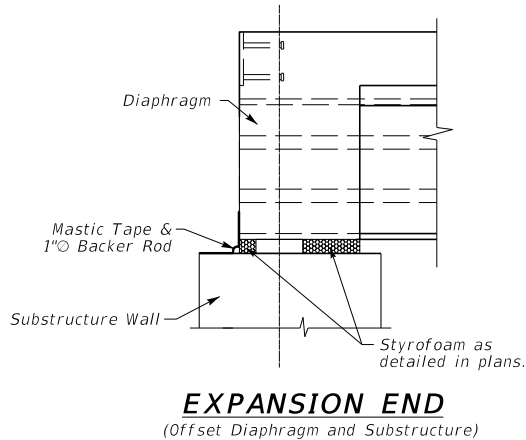
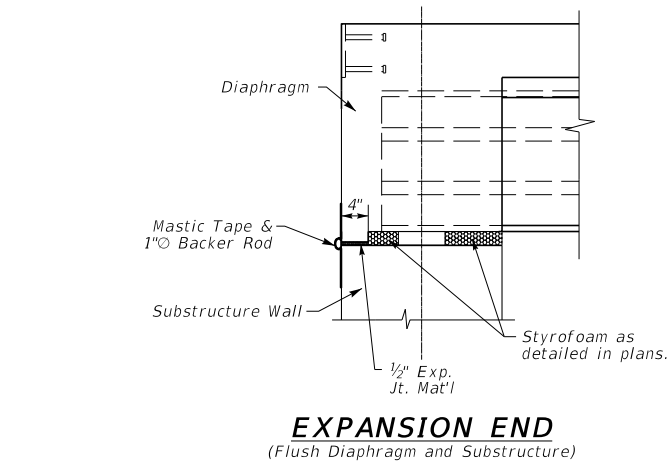
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: SEPIA 044 - BOX BEAM BEARING DETAILS

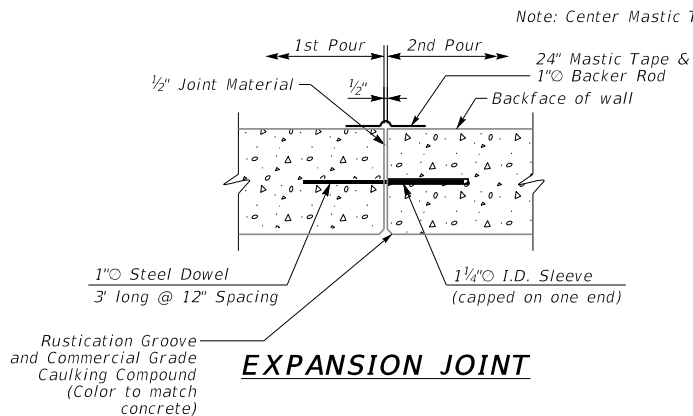
ITEM NO. COUNTY OF
SHEET NO. BELL
S12

*Expansion Joint Material:
AASHTO M153
Type-I Sponge Rubber



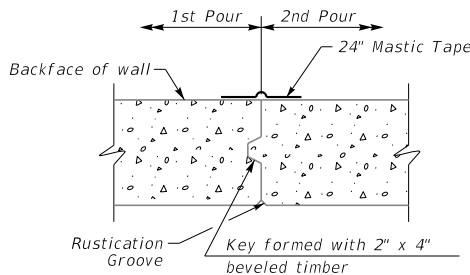
MASTIC TAPE APPLICATION AT BRIDGE ENDS

The cost of labor, materials, and incidental items for furnishing and installing Mastic Tape shall be considered incidental to the unit price bid for Concrete Class 'AA' and no separate measurement or payment shall be made.



EXPANSION JOINT

NOTE:
Maintain 2 inch clearance from ends of Longitudinal reinforcement to edge of expansion joint.



CONTRACTION JOINT

GENERAL NOTES

MASTIC TAPE: Mastic Tape used to seal joints is to meet the requirements of ASTM C-877 Type I, II, or III. The joint is to be covered with 12-inch wide mastic tape. Prior to application, the joint surface shall be clean and free of dirt, debris, or deleterious material. Primer, if required by the tape mfr., shall be applied for a minimum width of nine inches on each side of the joint.

Mastic Tape shall be either:

EZ-WRAP RUBBER by PRESS-SEAL GASKET CORPORATION,
SEAL WRAP by MAR MAC MANUFACTURING CO. INC. ,
CADILLOC by the UP RUBBER CO. INC.
or approved equal.

Mastic Tape shall cover the joint continuously unless otherwise shown in the plans. Mastic Tape shall be spliced by lapping a minimum of six inches and in accordance with the mfrs. recommendations with the overlap running downhill.

All preformed expansion joint material, caulking, mastic tape, pipe sleeve and equipment and labor necessary to complete the joints are incidental to the square foot bid for Retaining Walls.

MASTIC TAPE APPLICATION AT RETAINING WALLS

SUBMITTED _____ 10/25/2024
DIVISION DIRECTOR DATE



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



USER: michael-h

DRAWING TITLE: SEPIA 048 - JOINT WATERPROOFING

FILE NAME: C:\PW_WORKDIR\PEWIN_MICHAEL\HD0223969\007B00064N_S13_SEPIA048.DGN

ITEM NO. COUNTY OF
SHEET NO. BELL
S13