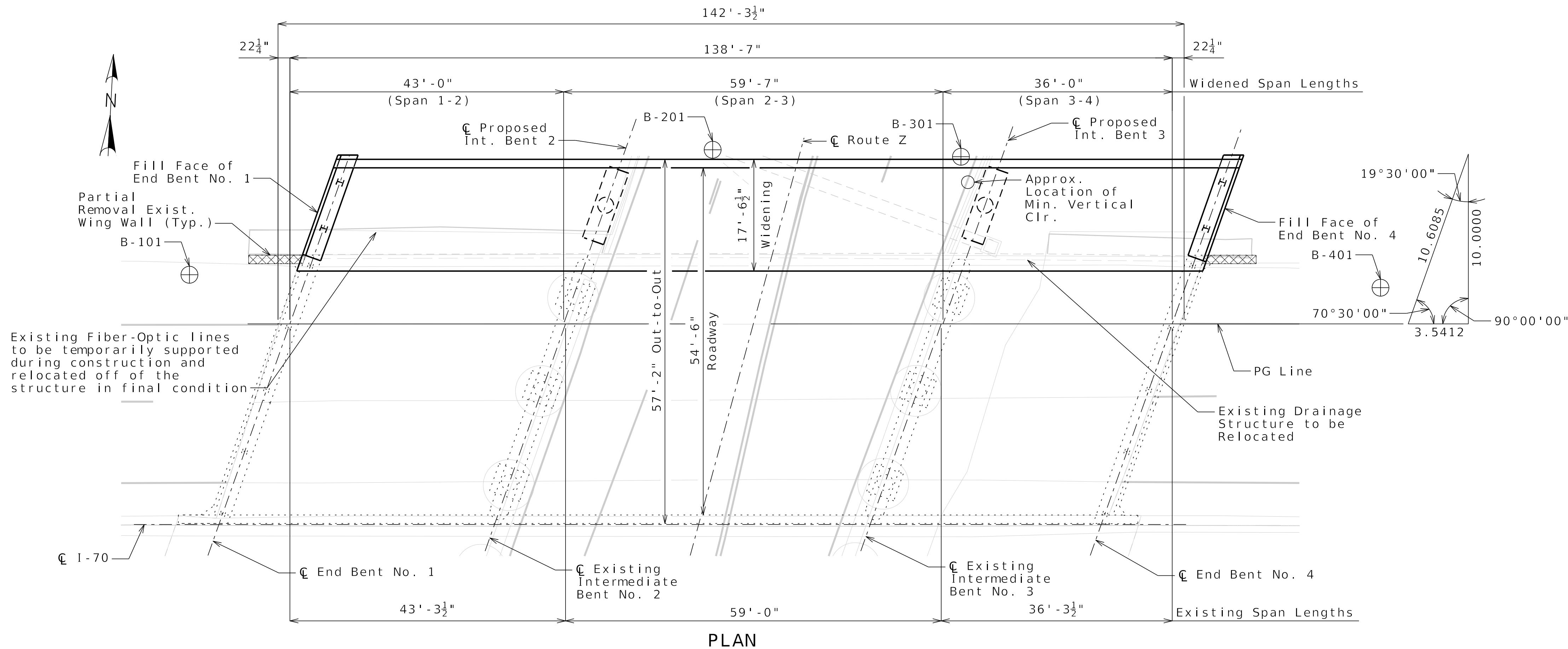
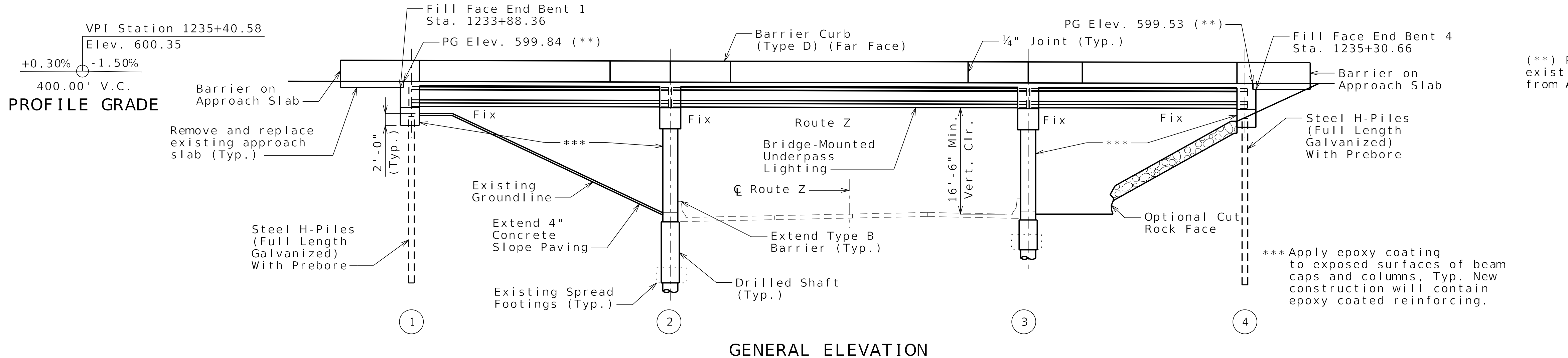


U.I.P. REHABILITATE & WIDEN EXISTING (43' - 60' - 36') CONTINUOUS PRESTRESSED CONCRETE I-GIRDER SPANS



Bridge A4320 not shown for clarity

⊙ Indicates location of post-award borings (None required or performed for this widening).

⊕ Indicates location of pre-award borings.

Notice Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown above. Selected borings are depicted in profile on Sheets No. 34 thru 36. The logs, laboratory test results, rock core photographs and other information obtained at these borings are available in the geotechnical memorandum prepared by HNTB for this structure.

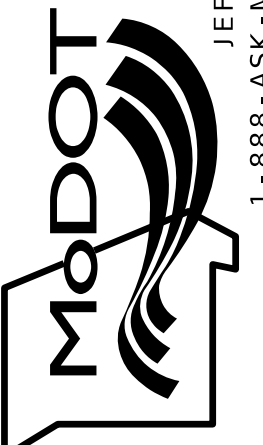



By nature of the exploration process, the information gathered at subsurface borings represents only a small fraction of the total volume of material at this site. Interpolation between data samples may not be indicative of the nature and extent of the variations that actually existing between sampling locations.

Detailed APR 2025
Checked APR 2025

Note: This drawing is not to scale. Follow dimensions.

Sheet 2 of XX

GENERAL PLAN AND ELEVATION

DATE PREPARED 4/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B01-02
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43232	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	
 715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	
 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 872-830-3181 FAX 872-830-3181 WWW.BARTLETTWEST.COM	

Foundation Data					
Type	Design Data	Bent Number			
		1	2	3	4
Load Bearing Pile	Pile Type and Size	HP12x53	--	--	HP12x53
	Number	2	--	--	2
	Approximate Length Per Each	ft	--	--	
	Pile Point Reinforcement	ea	2	--	2
	Min. Galvanized Penetration (Elev.)	ft	Full Length	--	Full Length
	Pile Driving Verification Method	ea	--	--	
	Resistance Factor		--	--	
Rock Socket	Minimum Nominal Axial Compressive Resistance	kip		--	
	Number	ea	--	1	--
	Layer 1	Foundation Material	--		--
		Elevation Range	ft	--	--
	Layer 2	Minimum Nominal Axial Compressive Resistance (Side Resistance)	ksf	--	--
		Foundation Material	--		--
	Layer 2	Elevation Range	ft	--	--
		Minimum Nominal Axial Compressive Resistance (Side Resistance)	ksf	--	--
	Layer 2	Minimum Nominal Axial Compressive Resistance (Tip Resistance)	ksf	--	--

WEAP = Wave Equation Analysis of Piles
DT = Dynamic Testing

Minimum Nominal Axial Compressive Resistance = $\frac{\text{Maximum Factored Loads}}{\text{Resistance Factor}}$

Minimum Nominal Axial Compressive Resistance (Side Resistance + Tip Resistance) = $\frac{\text{Maximum Factored Loads}}{\text{Resistance Factors}}$

Driven Piles:
All piles shall be galvanized full length.

Manufactured pile point reinforcement shall be used on all piles in this structure.

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

Prebore for piles at Bents 1 and 4 to elevations XXX.XX.

Prebore holes shall be backfilled with sand (or other approved material), in accordance with Sec 702, before piles are driven to bearing.

HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
Seismic Performance Category A

Design Loading:

Vehicular = HS20 Modified & Military 24,000 lb Tandem Axle (1983) (New and Existing Girders)
Future Wearing Surface = 35 lb/sf
Earth = 120 lb/cf
Equivalent Fluid Pressure = 45 lb/cf
Superstructure: Simply-Supported, Non-Composite for Dead Load. Continuous Composite for live load.

Design Unit Stresses:

Class B Concrete (Substructure) f'c = 3,000 psi
Class B-2 Concrete (Drilled Shafts & Rock Sockets) f'c = 4,000 psi
Class B-1 Concrete (Barrier) f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Prestressed Girders Beams and Barrier) f'c = 4,000 psi
Reinforcing Steel (ASTM A706 Grade 60) fy = 60,000 psi
Structural Steel HP Pile (ASTM A709 Grade 50) fy = 50,000 psi
For prestressed girder stresses, see Sheets No. X thru X.

Neoprene Pads:

Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

Pile Protective Coatings:

Piles shall be galvanized in accordance with Sec 702 and Sec. 1081.

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

MBS Refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710

All exposed substructure elements will contain epoxy coated reinforcing.

Hooks and bends shall be in accordance with CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Traffic Handling:

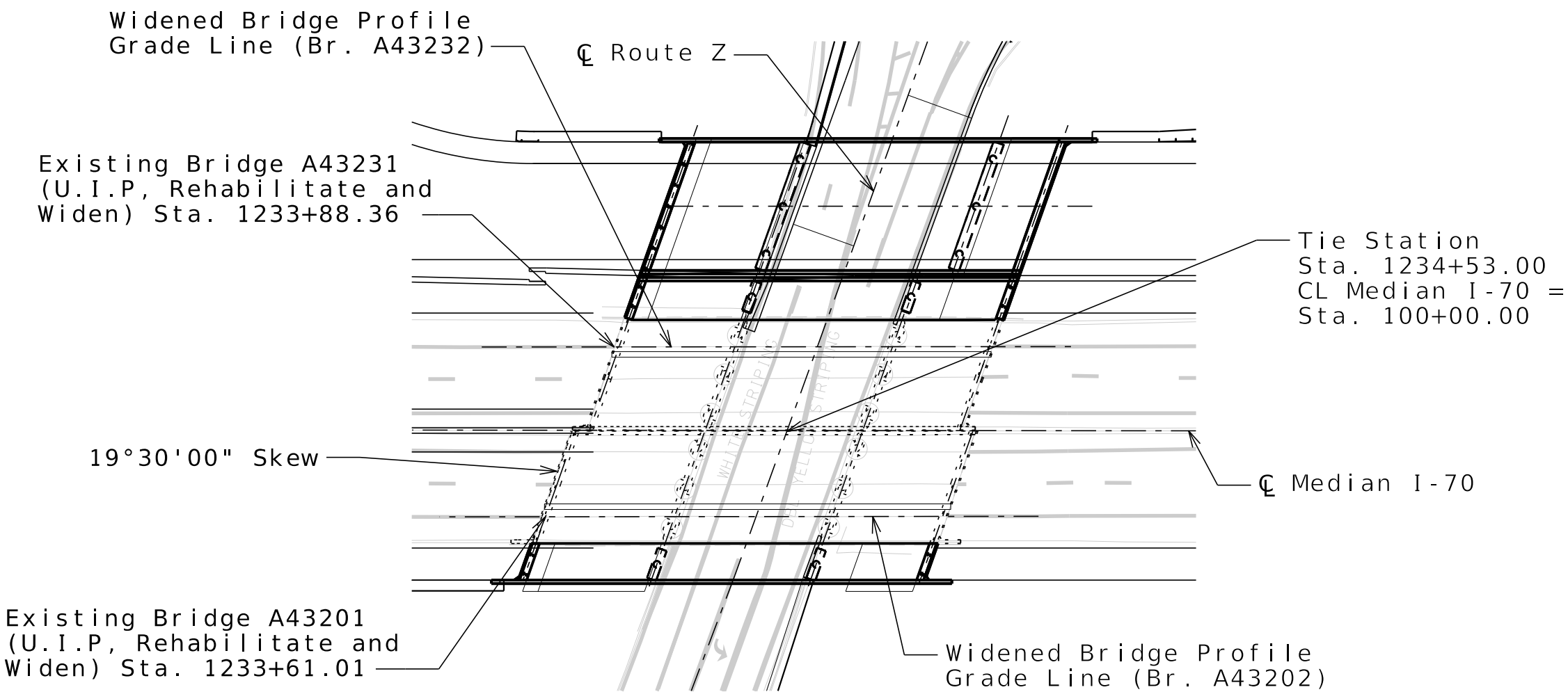
Vertical clearance for Route Z traffic during construction shall be 15 ft. minimum over a 2 - 12 foot lane horizontal opening centered on Route Z.

For traffic phasing during construction, see Maintenance of Traffic Plans.

Concrete Protective Coatings:

Protective coating for concrete bents and piers (Epoxy) shall be applied to all exposed substructure surfaces and in accordance with Sec 711.

Aesthetic Stain shall be applied to the vertical faces of the exterior barrier, deck and Prestressed Concrete Girders as shown on the plans in accordance with Sec 711.



LOCATION SKETCH

GENERAL NOTES (1 OF 2)

General Notes (cont.):

Bridge Deck:

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC4 and a finish type I, II, or III.

Slab shall be cast-in-place with a stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirements and coating designation G165 of ASTM A653. Complete Shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer’s recommendations.

Form sheets shall not rest directly on the top of girder flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Drilling holes in the girder flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for falsework and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for girder loading.

Miscellaneous:

High strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106.

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before finalizing shop drawings.

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for plain bars and 30 diameters, for deformed bars unless otherwise noted.

Detailed
Checked

Note: This drawing is not to scale. Follow dimension\$.

Sheet 3 of XX

GENERAL NOTES AND ESTIMATED QUANTITIES

DATE PREPARED
4/25/2025

ROUTE
1 - 70

STATE
MO

DISTRICT
BR

SHEET NO.
B01 - 03

COUNTY
ST. CHARLES

JOB NO.
JST0020

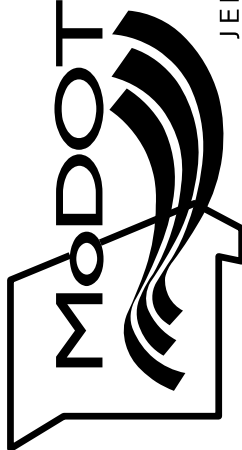
CONTRACT ID.

PROJECT NO.


BRIDGE NO.
A43232


DESCRIPTION						
DATE						

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

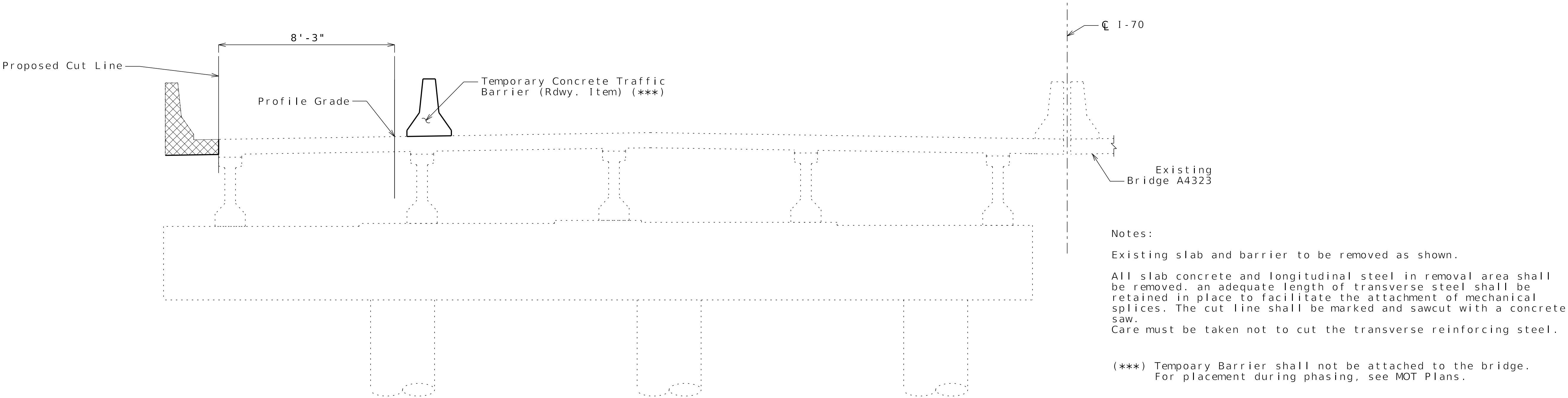




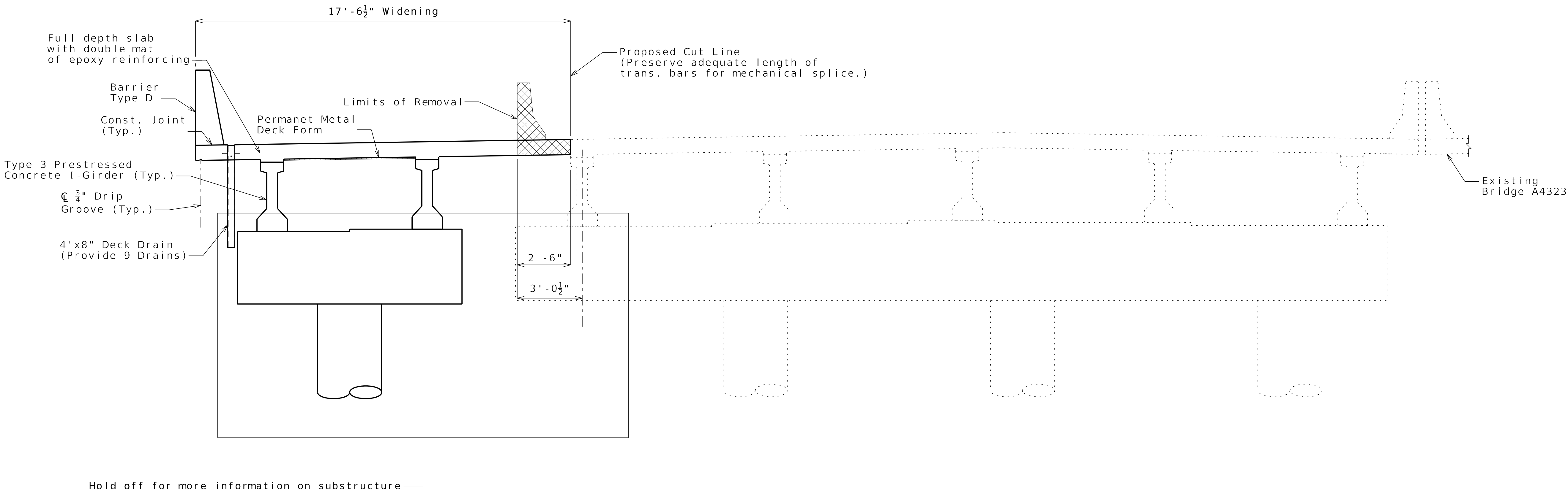
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270



601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-633-3181
FAX 573-633-3181
WWW.BARTLETTWEST.COM



EXISTING TYPICAL SECTION



TYPICAL SECTION SHOWING WIDENING

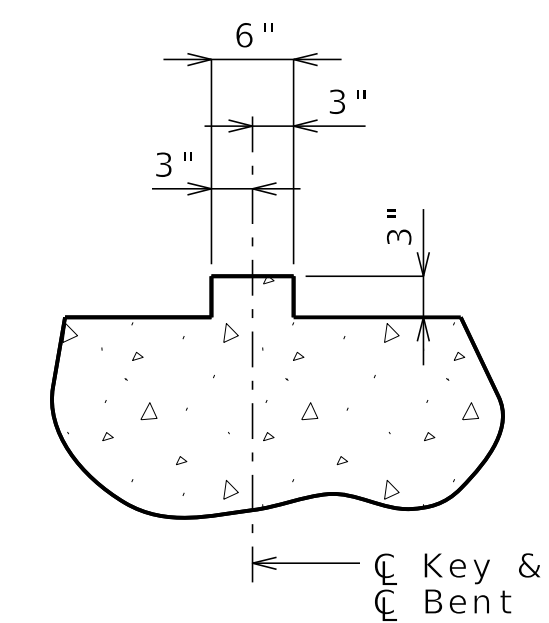
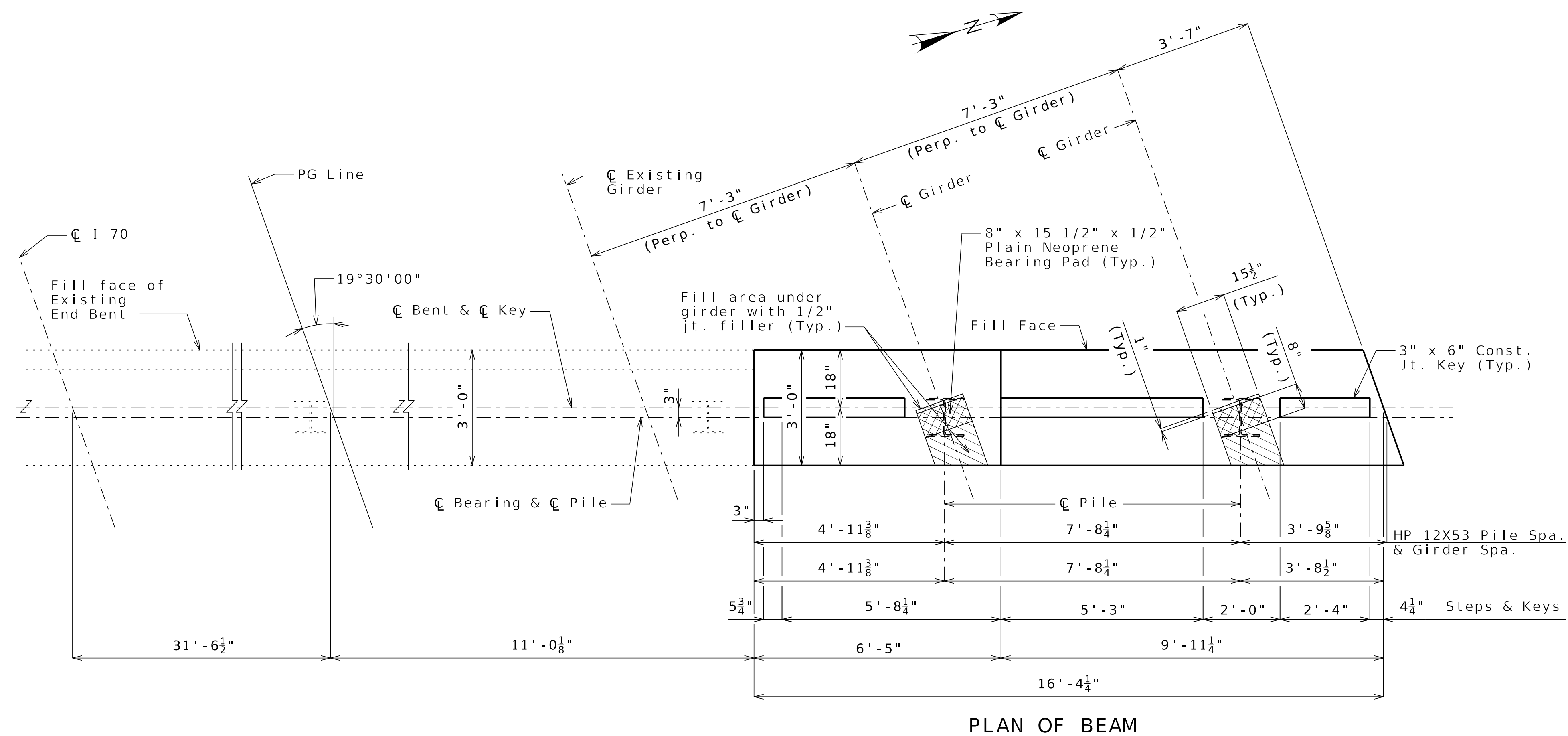
Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

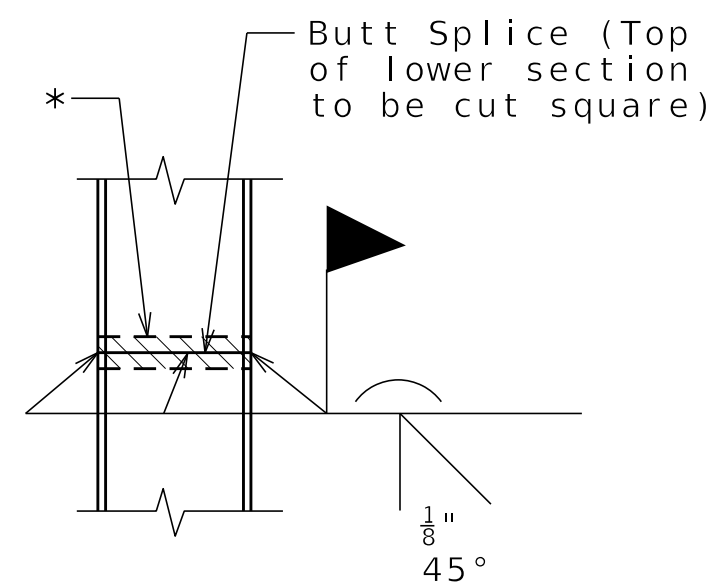
Sheet 3A of XX

PHASING AND REMOVAL PLAN

DATE PREPARED 4/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B01-03A
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43202	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
MoDOT 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
IMPROVE 70 ALLIANCE	
HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	Bartlett & West 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 573-633-3181 FAX 573-633-3181 WWW.BARTLETTWEST.COM

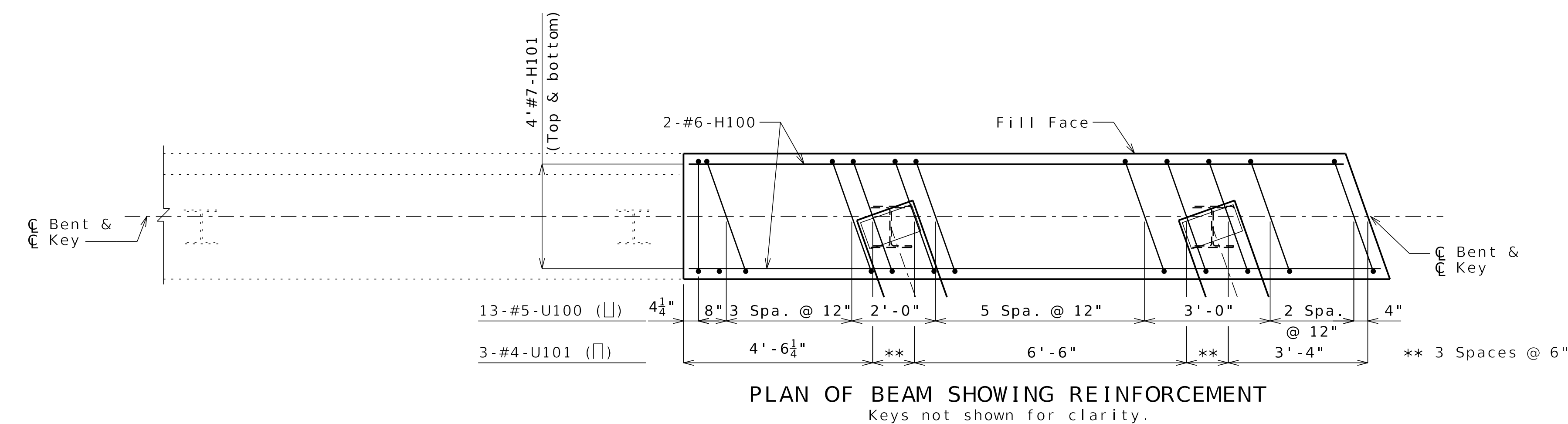


SECTION THRU KEY



STEEL PILE SPLICE
(If required)

* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

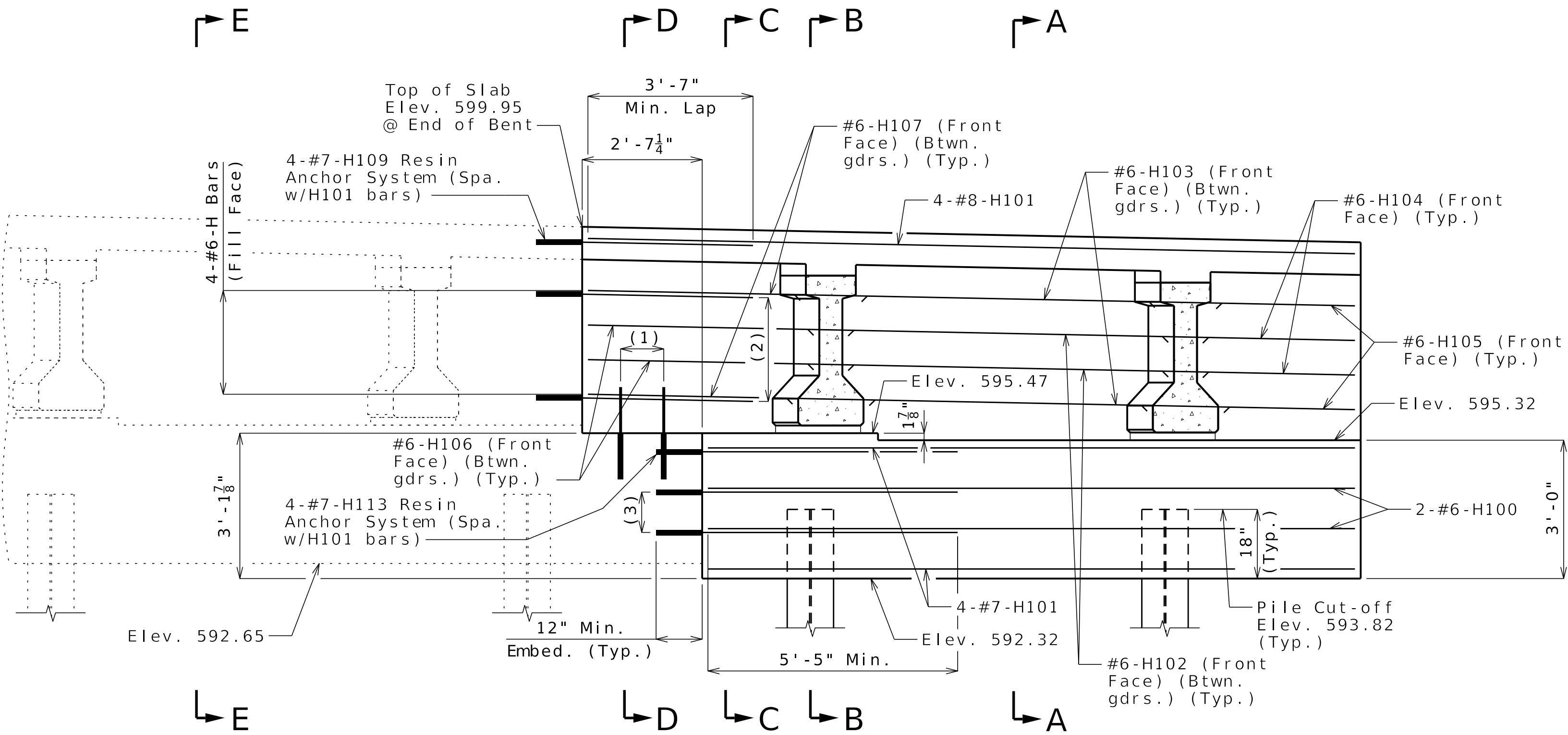


General Notes:

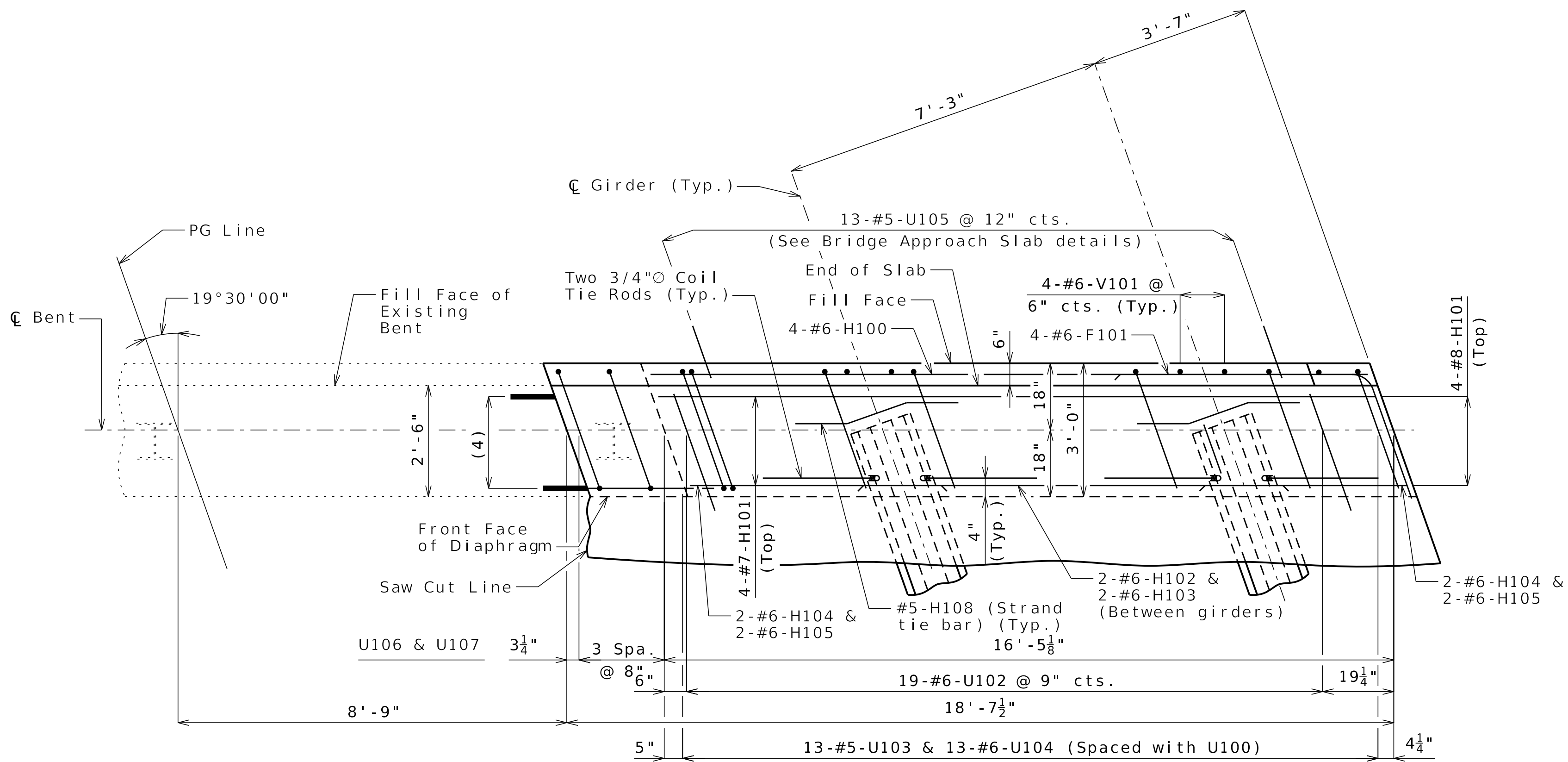
Work this sheet with Sheets No. XX and XX.

All U bars and pairs of V bars shall be placed parallel to centerline of roadway.

Reinforcing steel shall be shifted to clear piles. U bars shall clear piles by at least 1 1/2 inches.



SECTION NEAR END BENT



PART PLAN

- (1) 2-#7-H110 Resin Anchor System (E.F.) (Spa. w/U106 bars)
- (2) 4-#7-H111 Resin Anchor System (Fill Face) (Spa. w/H100 bars)
- (3) 2-#7-H112 Resin Anchor System (E.F.) (spa. w/H100 bars)
- (4) 4-#7-H109 Resin Anchor System (Top) (spa. w/H101 bars)

General Notes:

Work this sheet with Sheets No. 4 & 6.

For Sections A-A, B-B & C-C and Elevations D-D & E-E, see Sheet No. 6.

The #6-F100 and #6-F102 bars shall be bent in the field to clear girders.

The U bars shall be placed parallel to centerline of roadway.

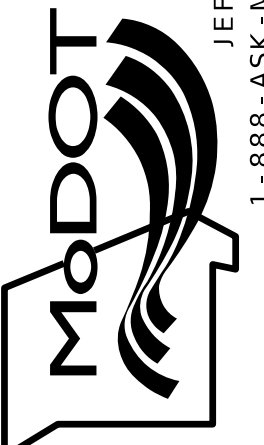



All concrete in the end bent above top of beam and below top of slab shall be Class B-2.

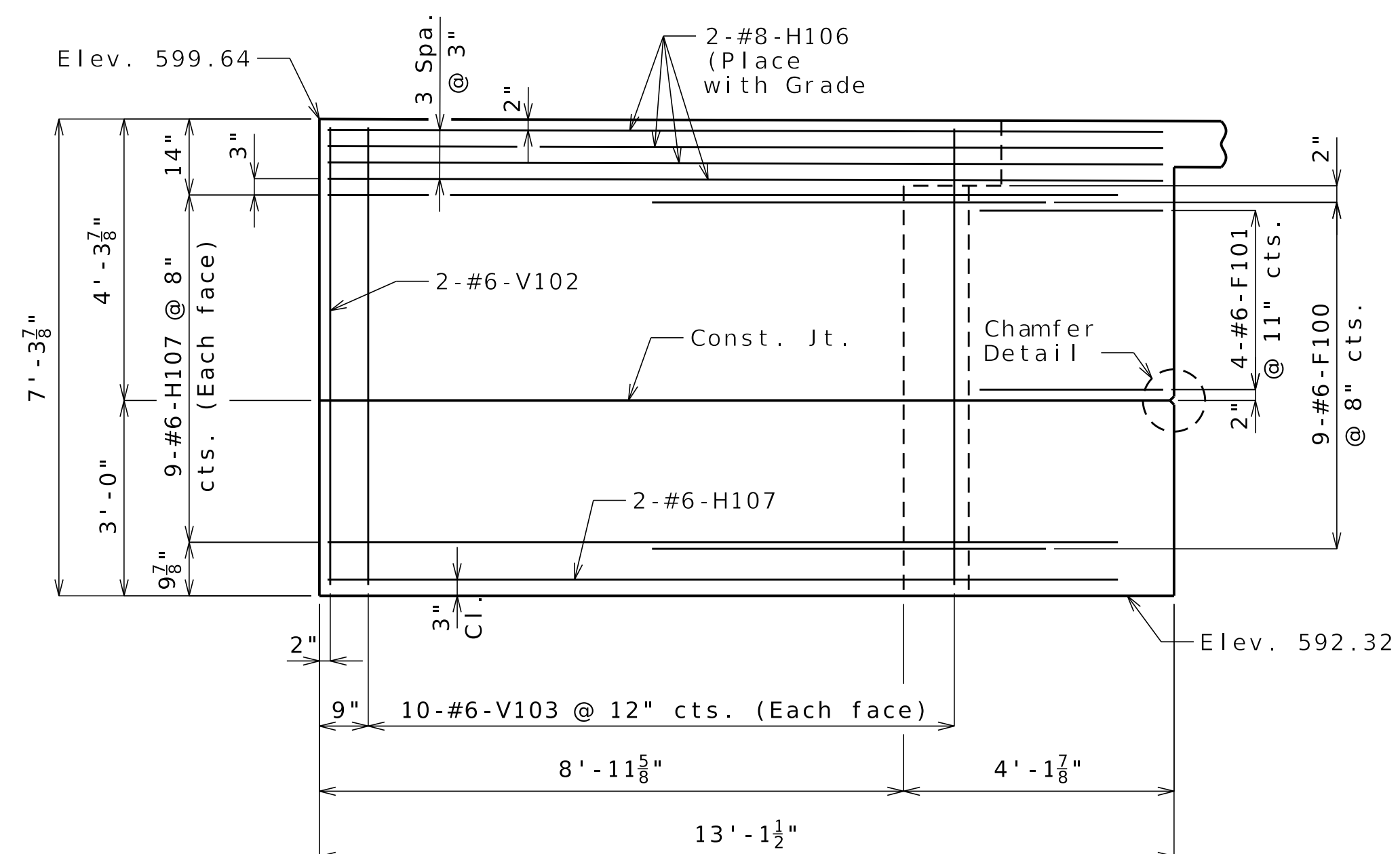
Strands at end of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2-inch minimum clearance to fill face of end bent.

For location of coil tie rods and #5-H108 (strand tie bar), see Sheet No. XX.

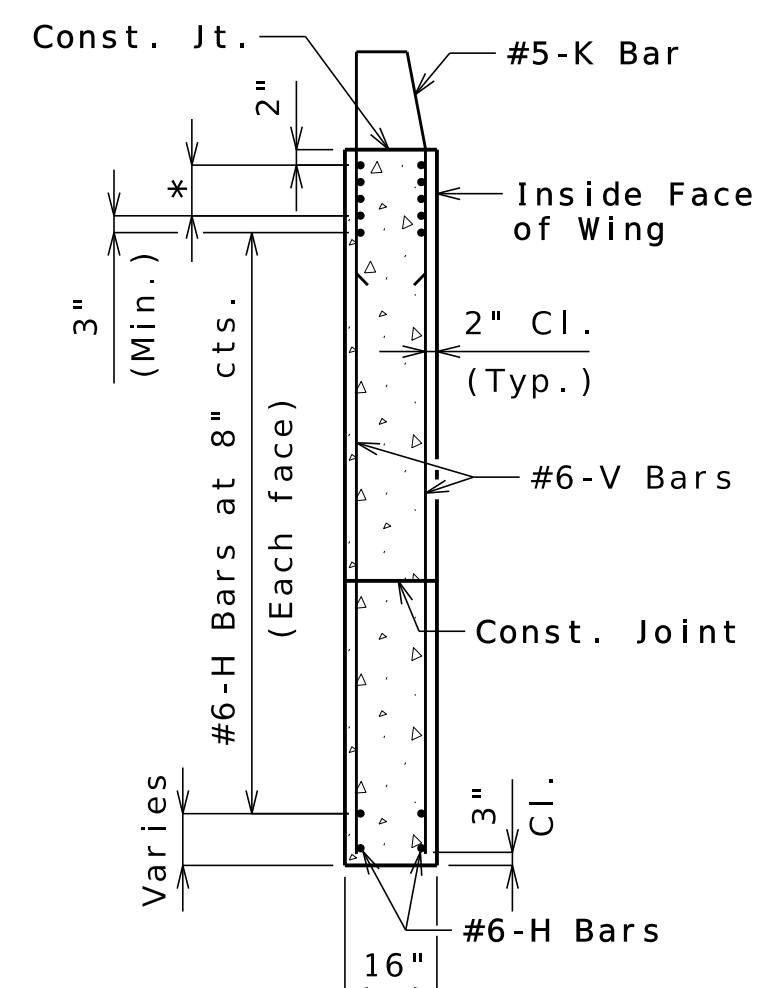
For details of vertical drain at end bents, see Sheet No. X.

For details of bridge approach slab, see Sheet No. XX.

DATE PREPARED 4/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B01-05
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43232	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
	
	
 715 KIRK DRIVE KANSAS CITY, MO 64105-1310 PHONE 874-3331 FAX 874-3331 WWW.HNTB.COM	 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 573-633-3181 FAX 573-633-3181 WWW.BARTLETTWEST.COM

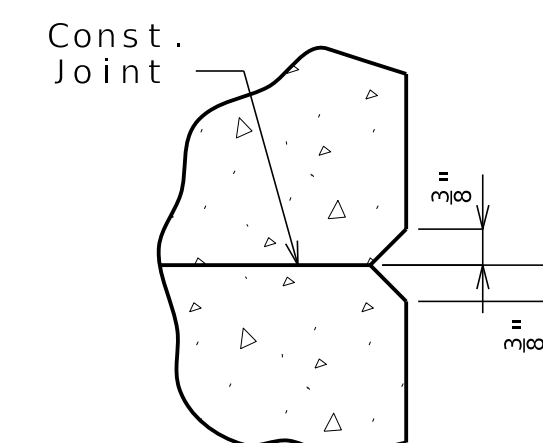


ELEVATION D-D



TYPICAL SECTION
THRU WING

* #8-H Bars at 3" cts.
(Each face)(Place with grade)

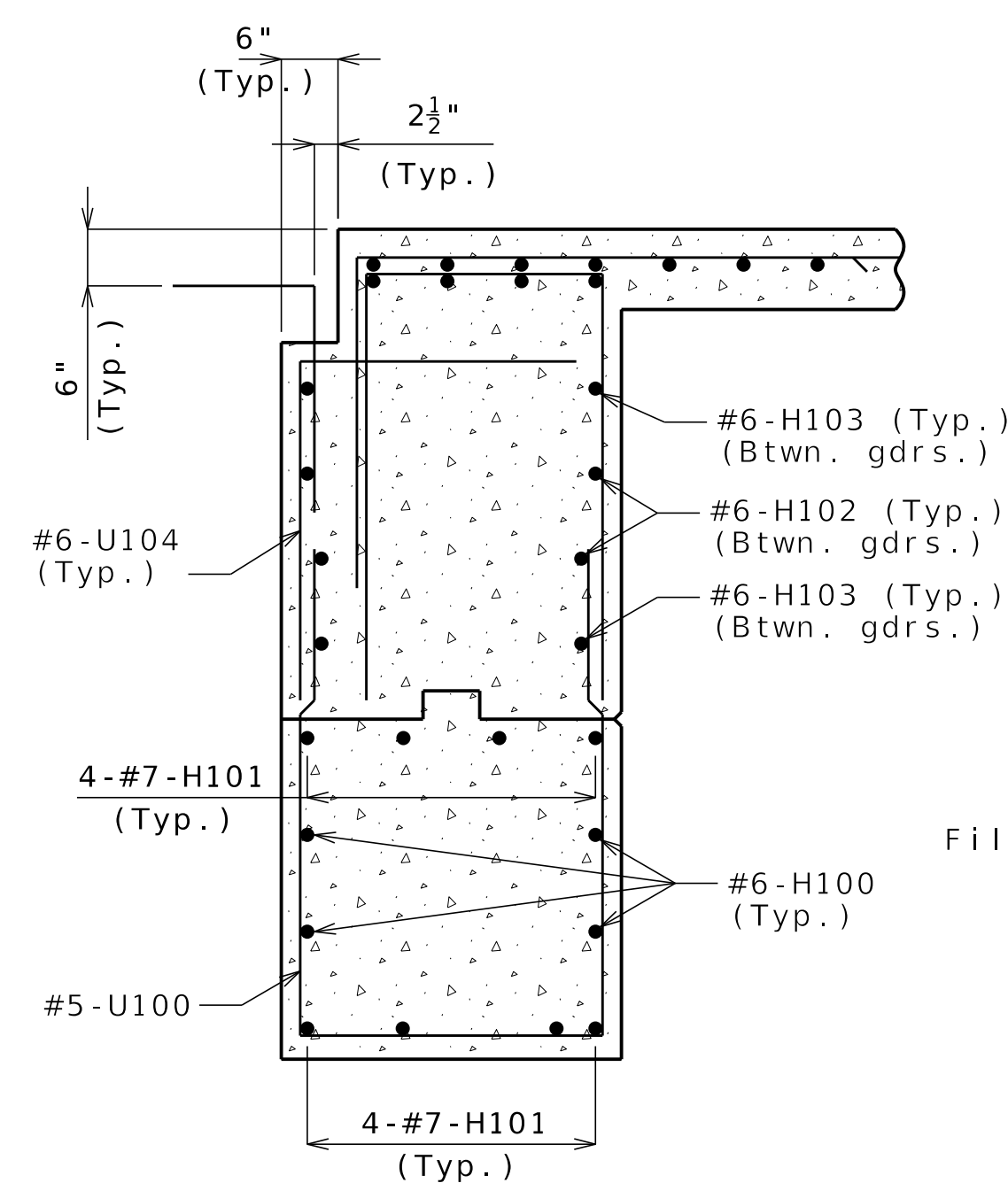


CHAMFER DETAIL

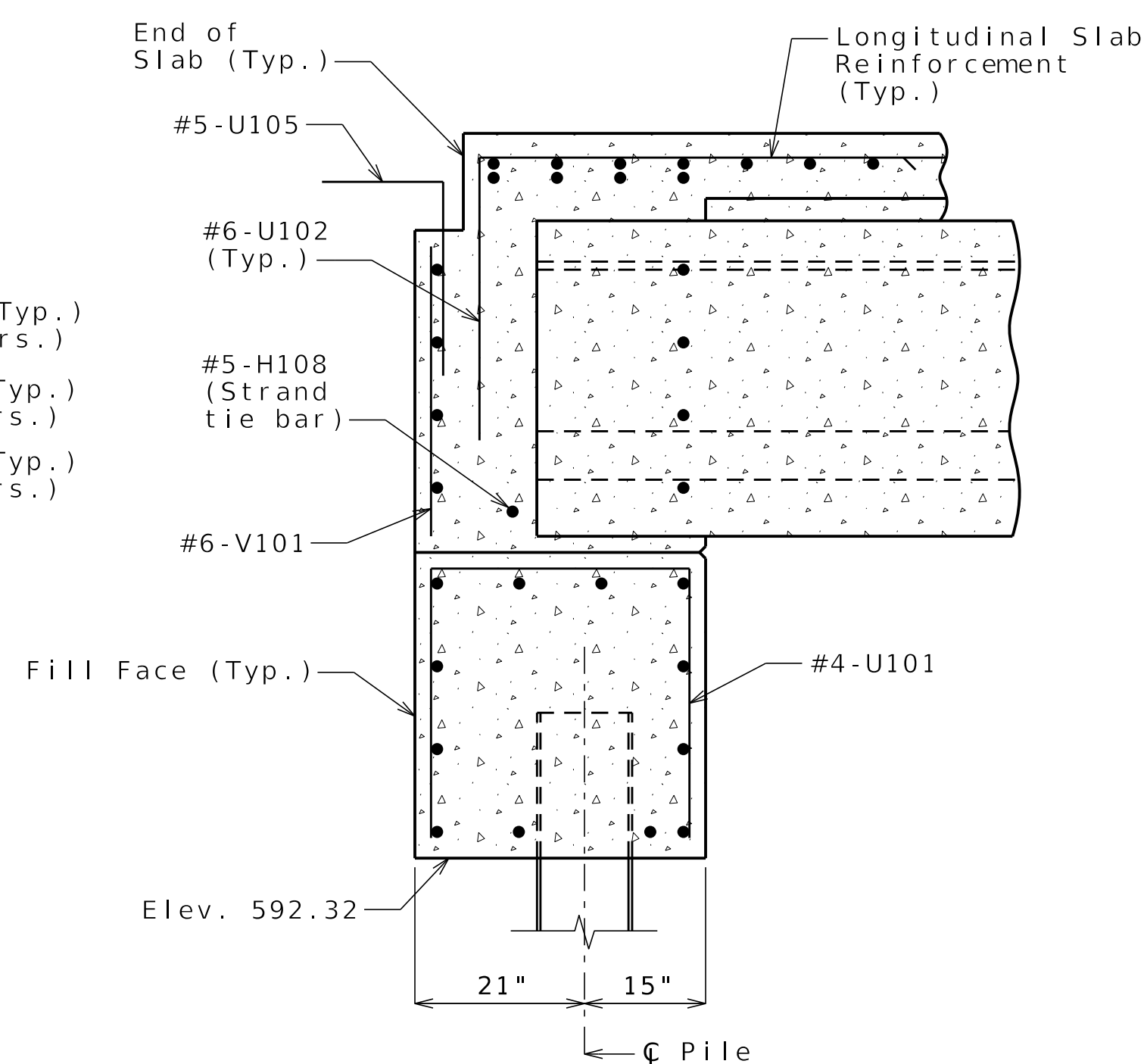
General Notes:

Work this sheet with Sheets No. X & X.

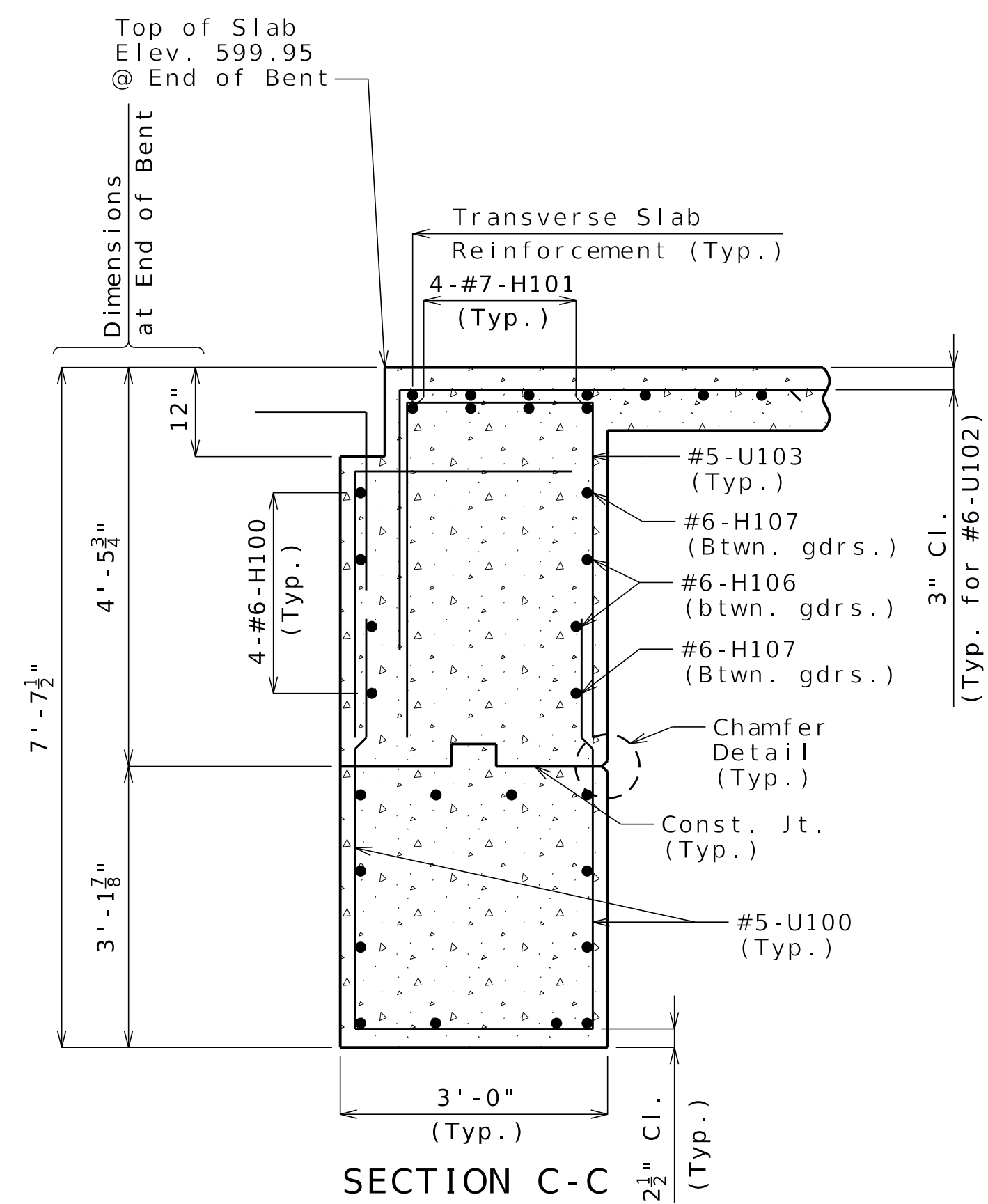
For reinforcement of the barrier, see
Sheet No. XX.



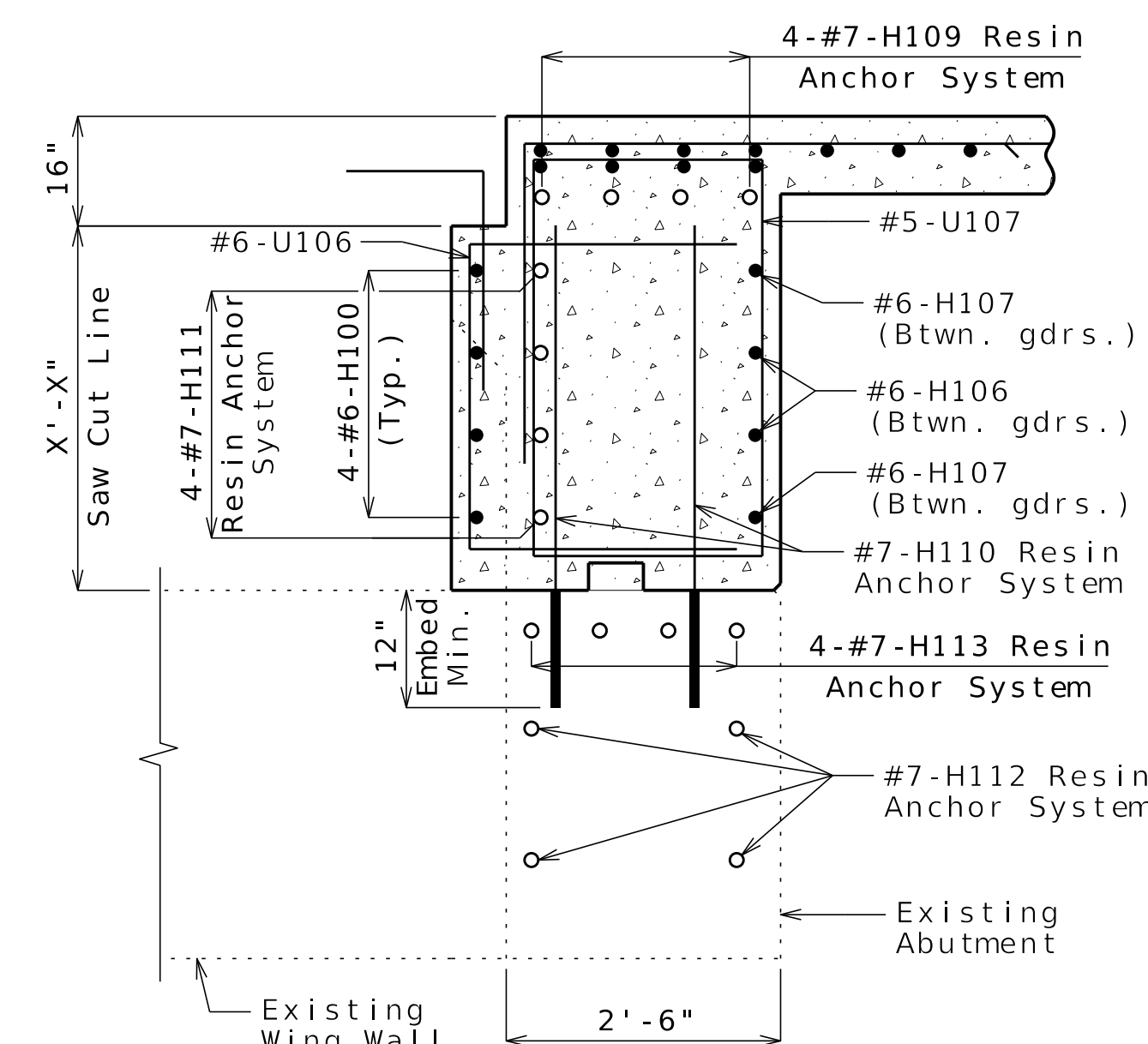
SECTION A-A



SECTION B-B



SECTION C-C



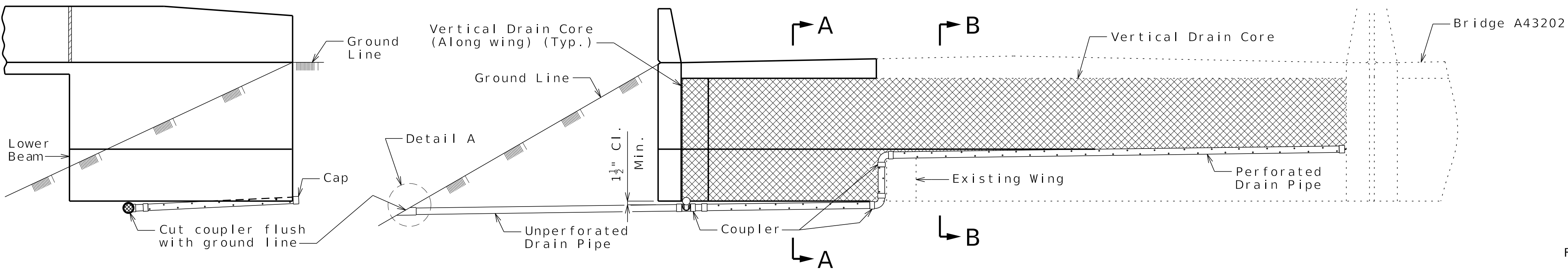
SECTION D-D

Detailed JULY 2025
Checked JULY 2025

Note: This drawing is not to scale. Follow dimensions.

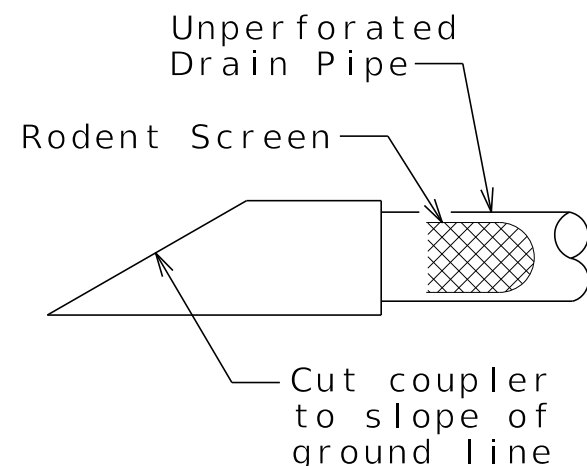
Sheet 6 of XX

DETAILS OF END BENT NO. 1

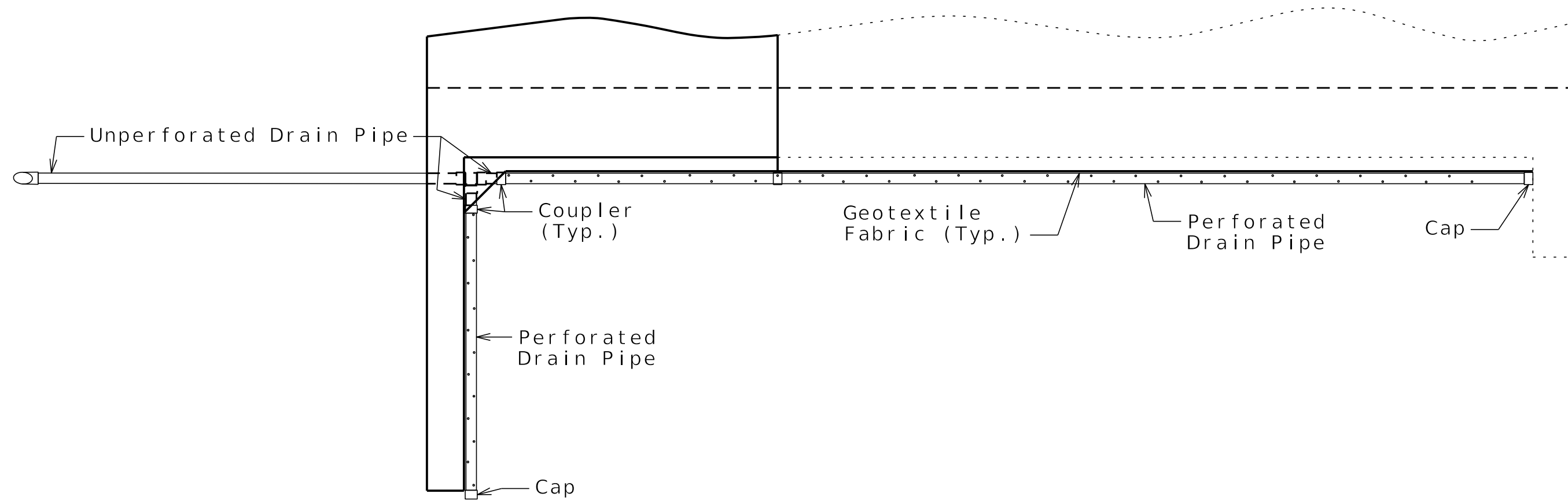


ELEVATION OF WING

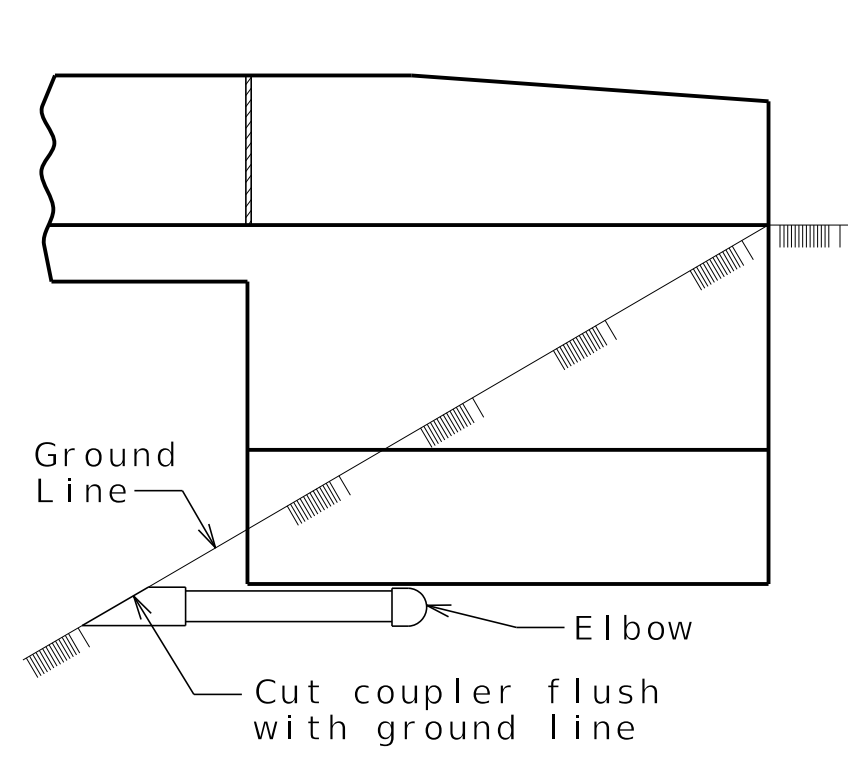
ELEVATION OF END BENT
(Looking Back Station)
(End Bent No. 4 shown, End Bent No. 1 similar)



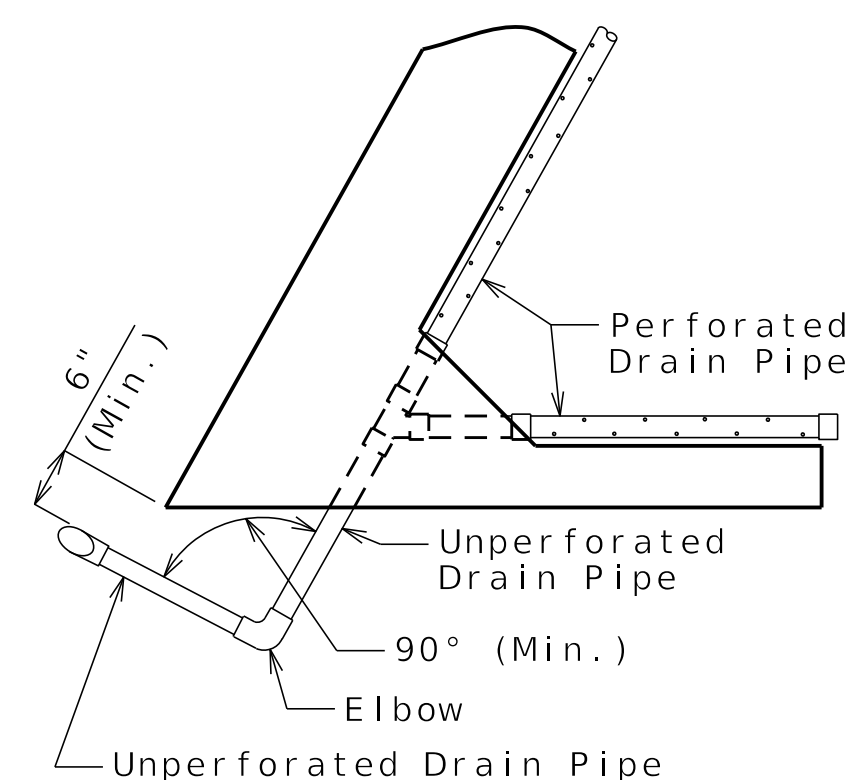
DETAIL A



PLAN OF END BENT



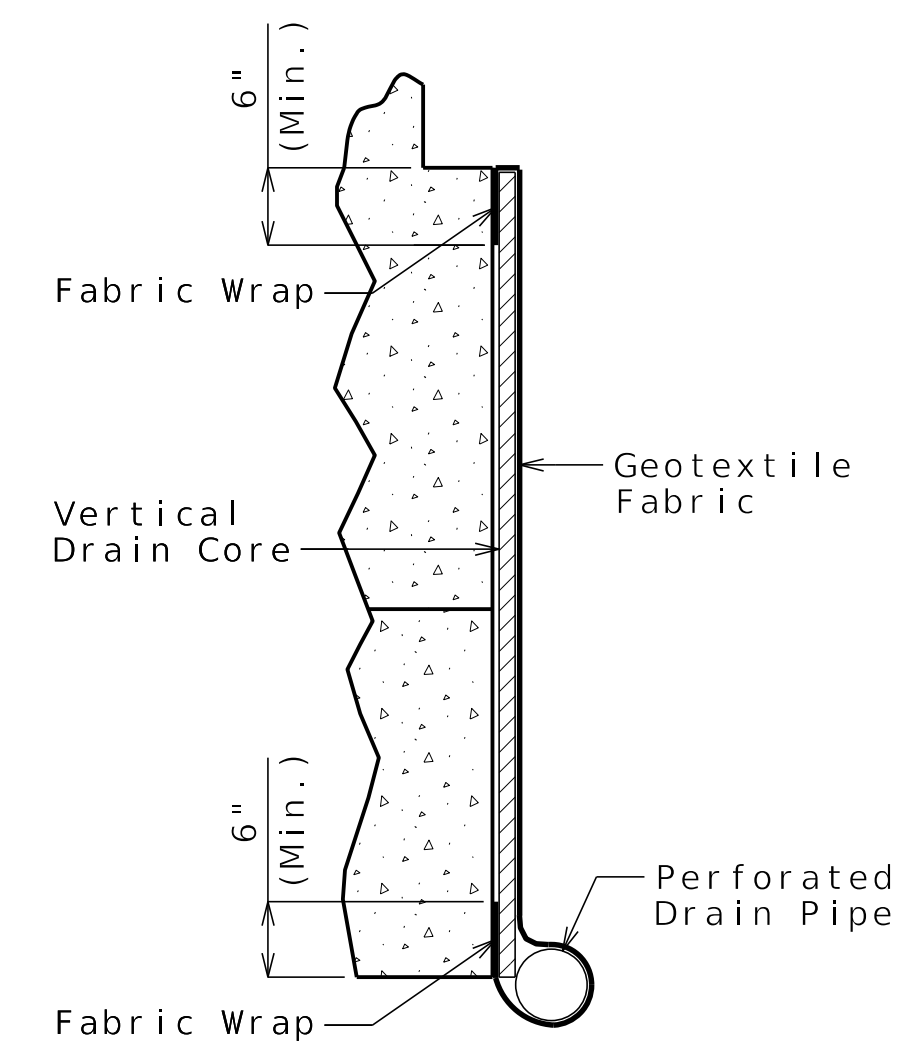
ELEVATION OF WING



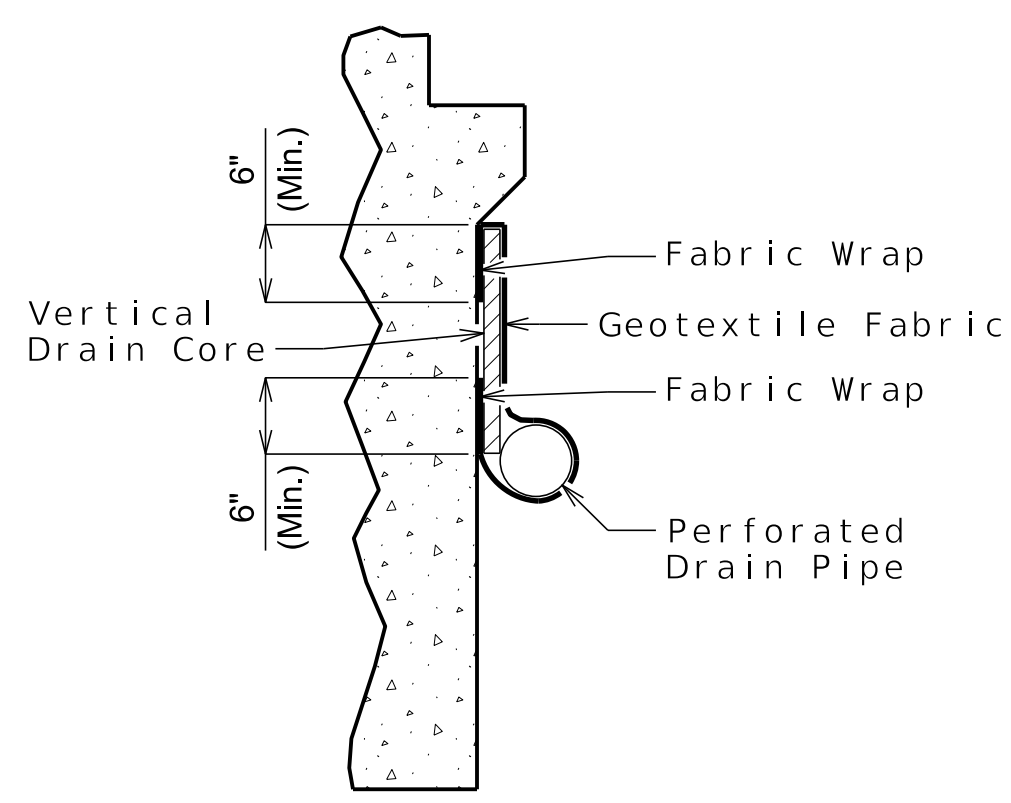
PART PLAN

OPTIONAL TURNED DRAIN

(Use only when straight drain is not practical.)



PART SECTION A-A
(Section thru wing similar)



PART SECTION B-B

General Notes:

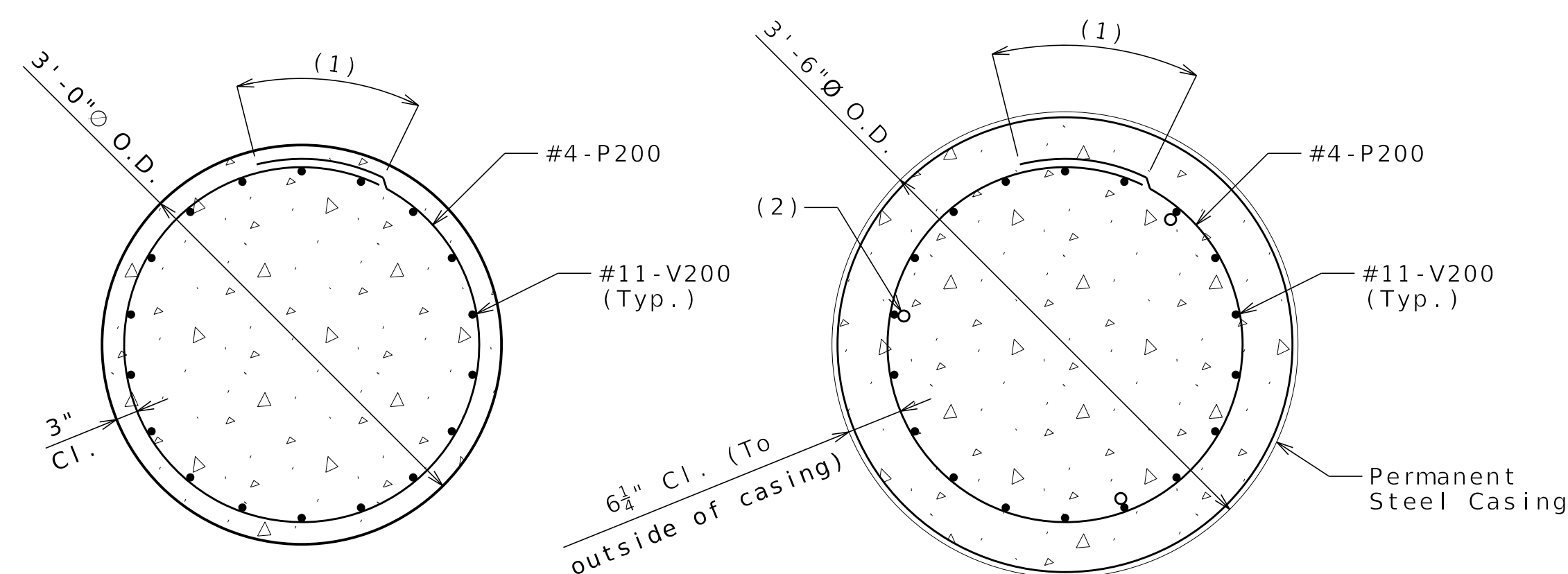
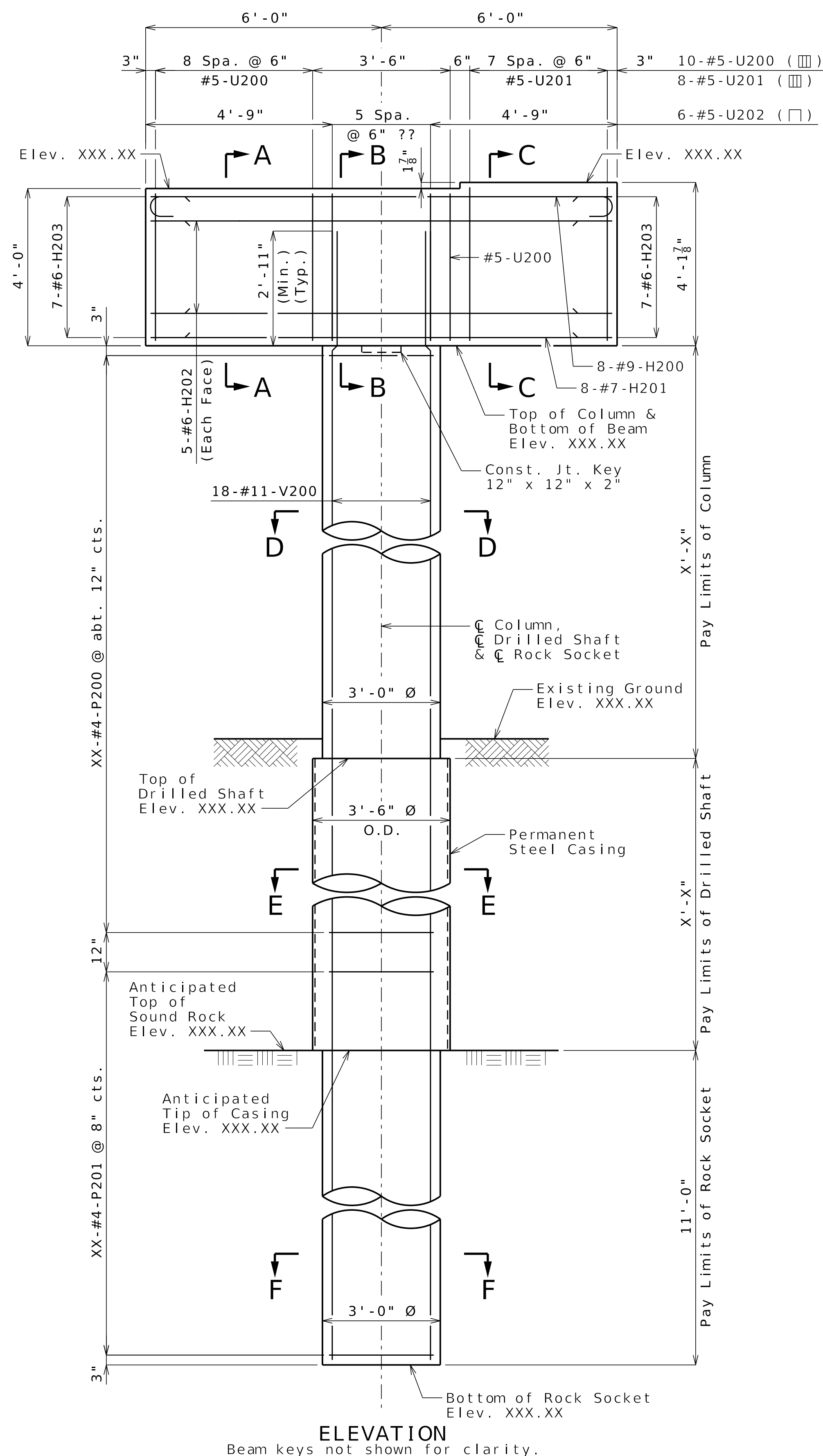
- All drain pipe shall be sloped 1 to 2 percent.
- Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.
- Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.
- Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

VERTICAL DRAIN AT END BENTS
(Squared end bent shown, skewed end bent similar)

VERTICAL DRAIN AT END BENTS

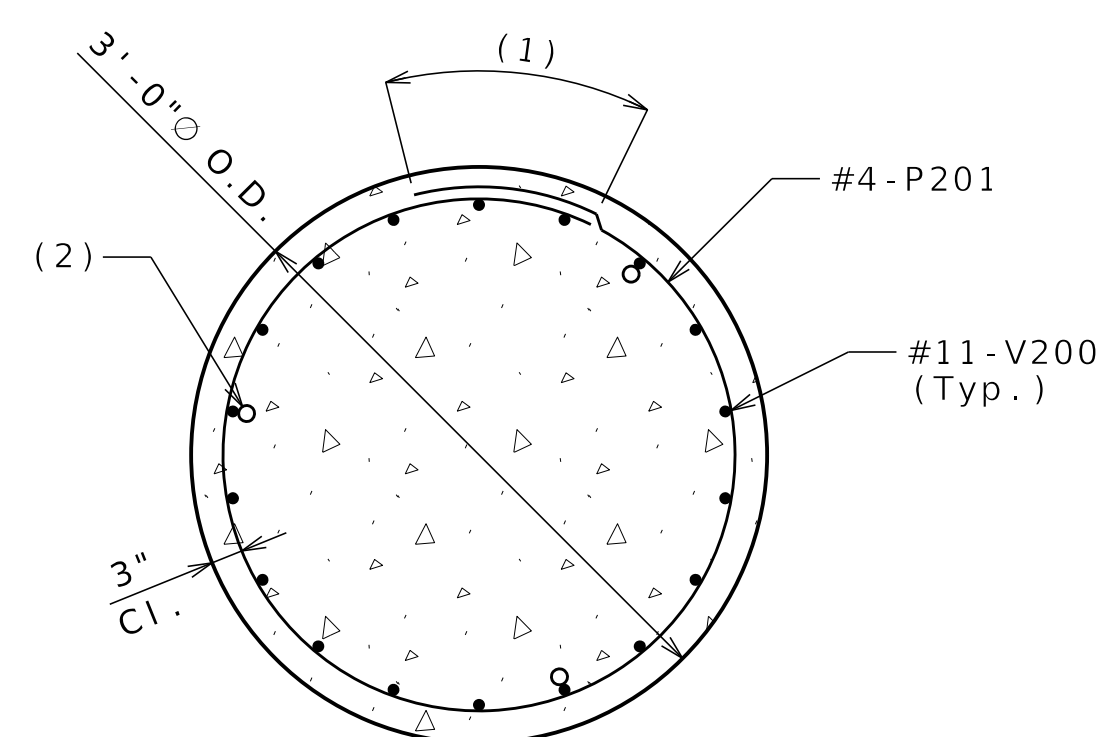
Detailed JUL 2025
Checked JUL 2025

DATE PREPARED 4/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B01-07
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43232	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	Bartlett & West 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 873-630-3181 FAX 873-630-3181 WWW.BARTLETTWEST.COM CERTIFICATE OF AUTHORITY

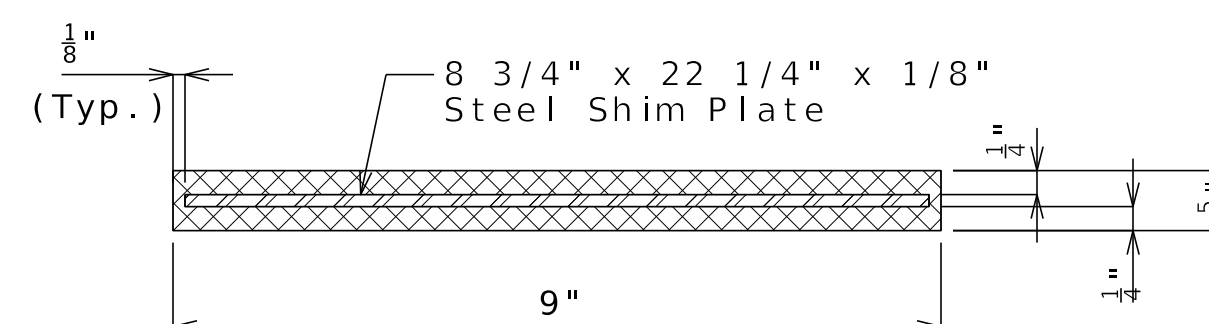
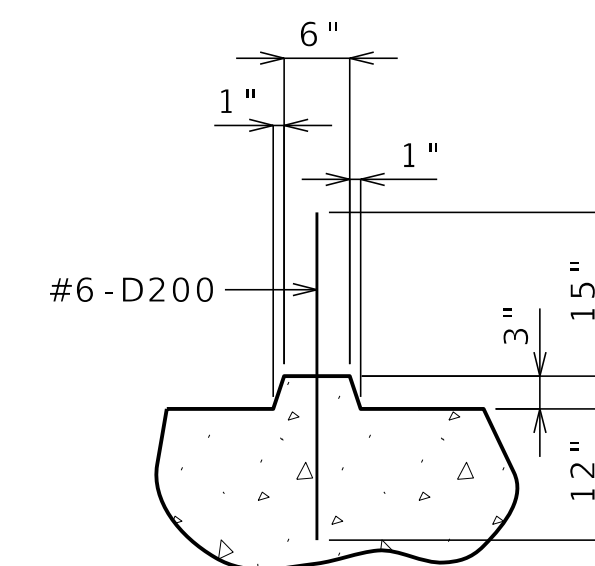


SECTION D-D

SECTION E-E



SECTION F - F

SECTION THRU LAMINATED
NEOPRENE BEARING PAD

SECTION THRU KEY

General Notes:

Work this sheet with Sheet No. X.

Drilled shafts shall be constructed in accordance with the project Drilled Shaft Construction AAS.

Thickness of permanent steel casing shall be in accordance with Drilled Shaft Construction AAS.

The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data table without approval by the engineer.


An additional 4 feet has been added to V-bar lengths and additional 12-#6-P201 bars have been added for possible change in drilled shaft or rock socket length. The additional V-bar length shall be cut off or included in the reinforcement lap if not required. The P bars shall be spaced similarly to that shown in Elevation, if required, or a lesser spacing if not required but not less than 6-inch centers.

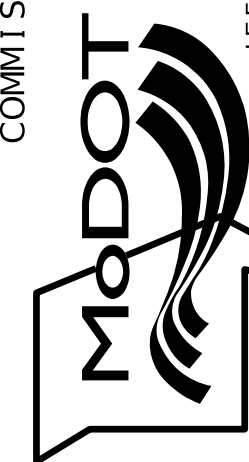
Sonic logging testing shall be performed on all drilled shafts and rock sockets

DATE PREPARED	
4/25/2025	
ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
BR	B01-08
COUNTY	
ST. CHARLES	
JOB NO.	
JST0020	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO. A43232

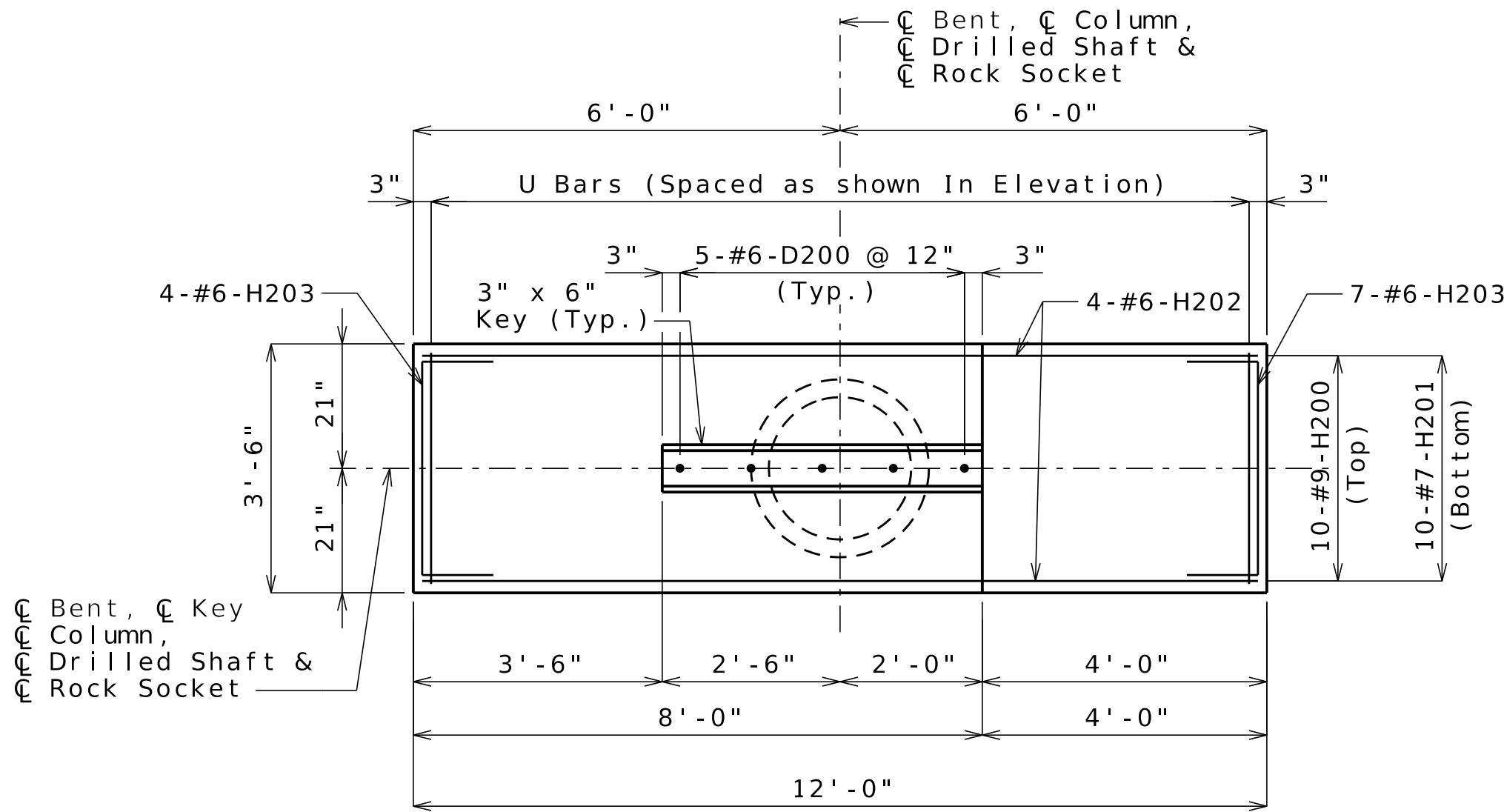
[illegible]


MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

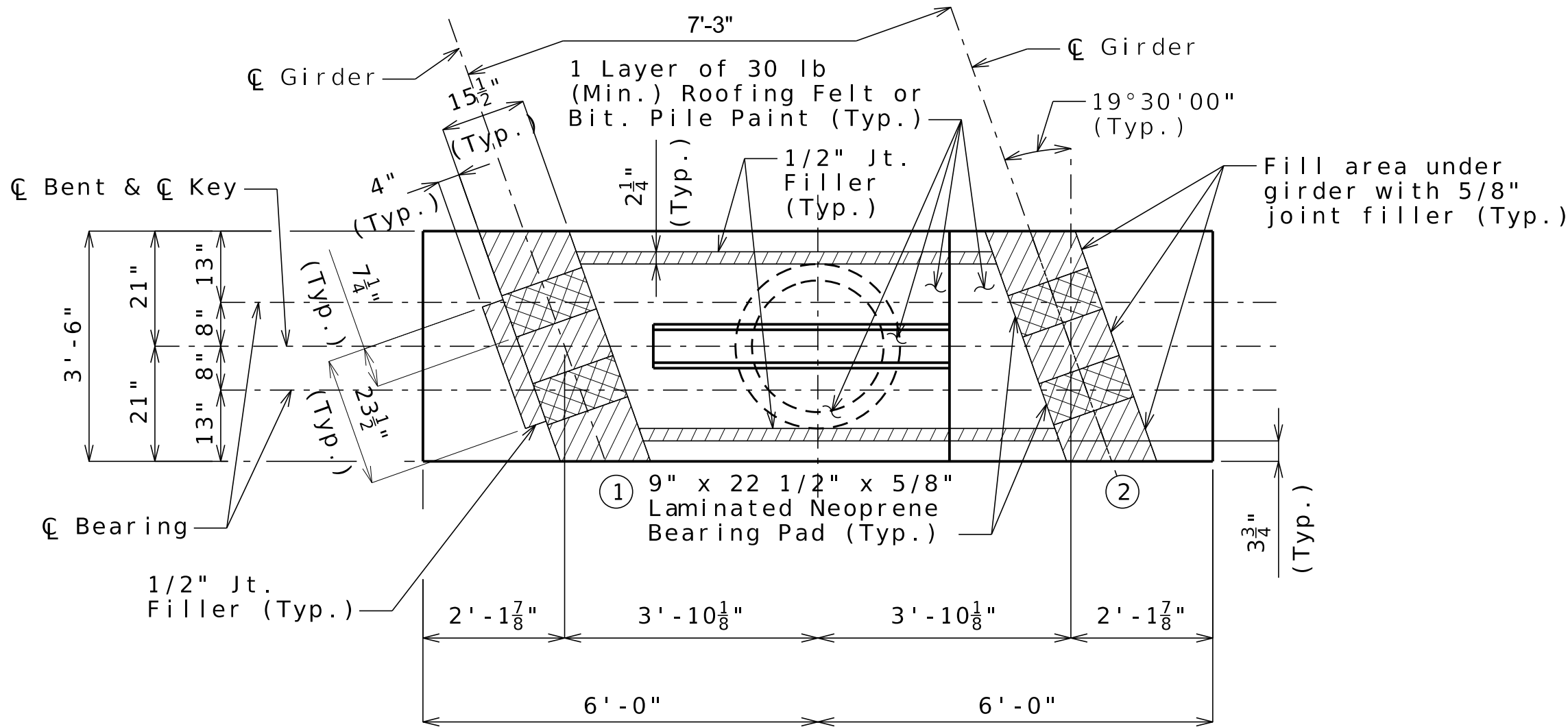


HNTB 715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

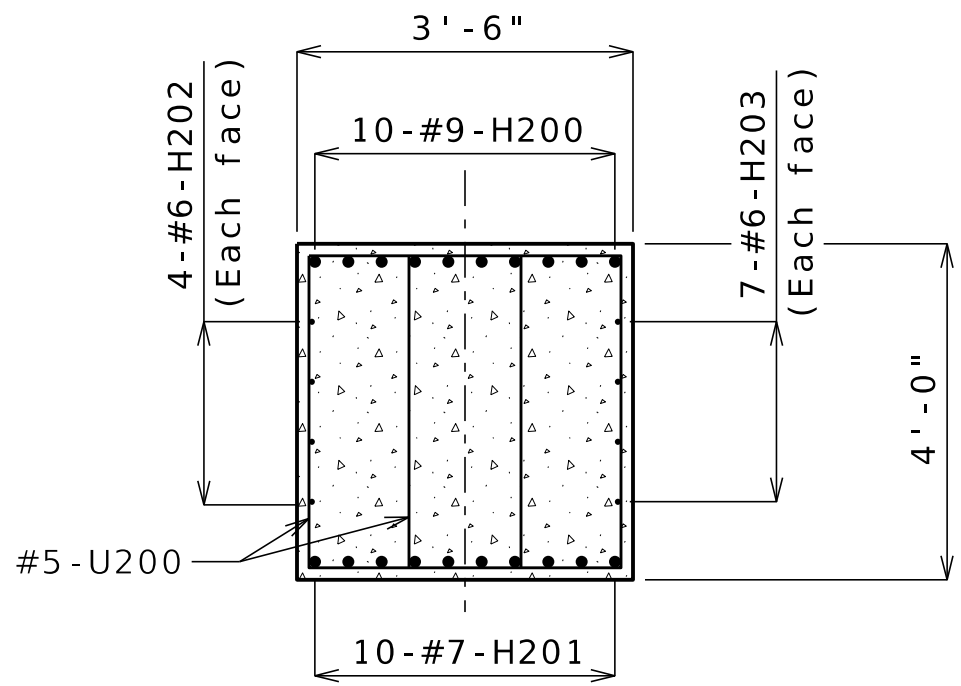
Bartlett & West
601 MONROE ST., SUITE 201 • JEFFERSON CITY, MO 65101
PHONE 573-636-3181
FAX 573-636-3182
CERTIFICATE OF AUTHORITY NO. 000167 • ENGINEERING



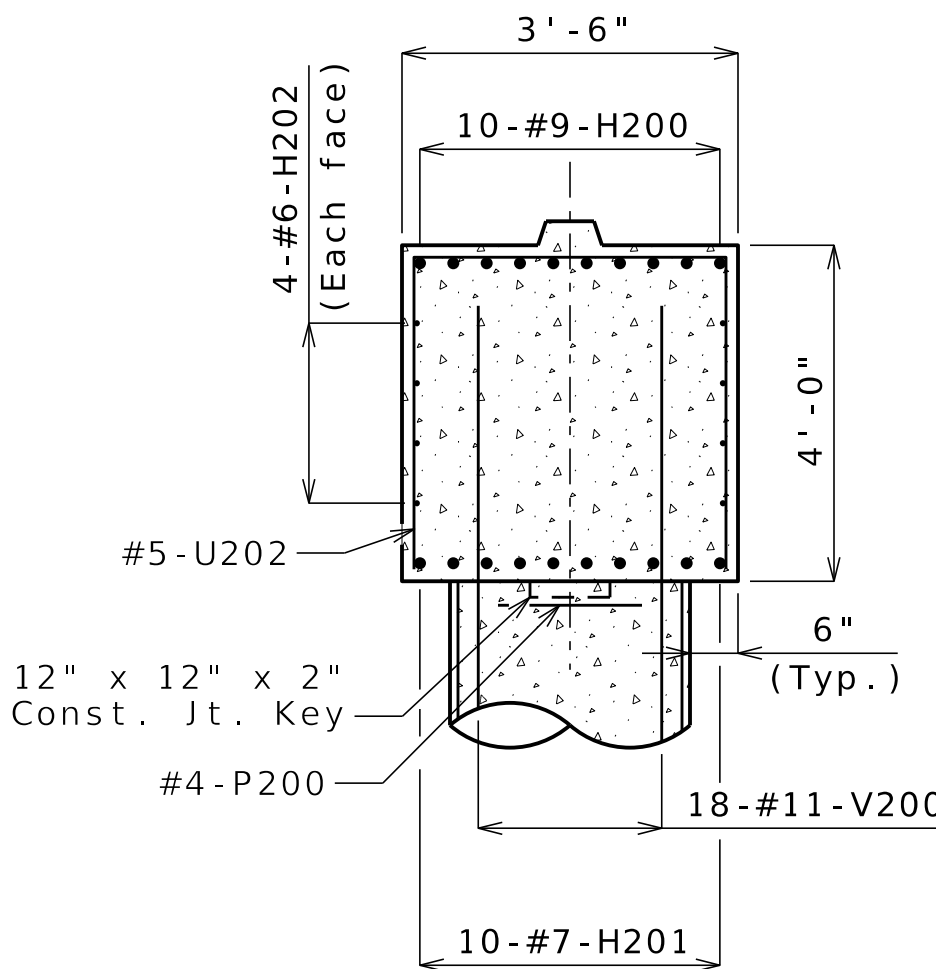
PLAN SHOWING REINFORCEMENT



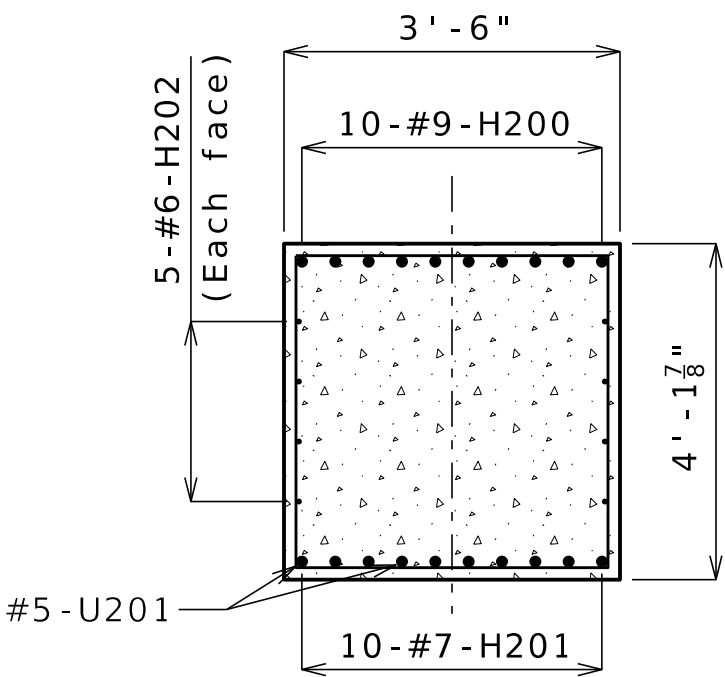
PLAN OF BEAM



SECTION A-A



SECTION B-B



SECTION C-C

General Notes:
Work this sheet with Sheet No. X.
For steps 2 inches or more, use 2 1/4x 1/2-inch joint filler up vertical face.

DATE PREPARED 4/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B01-09
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO. A43232

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

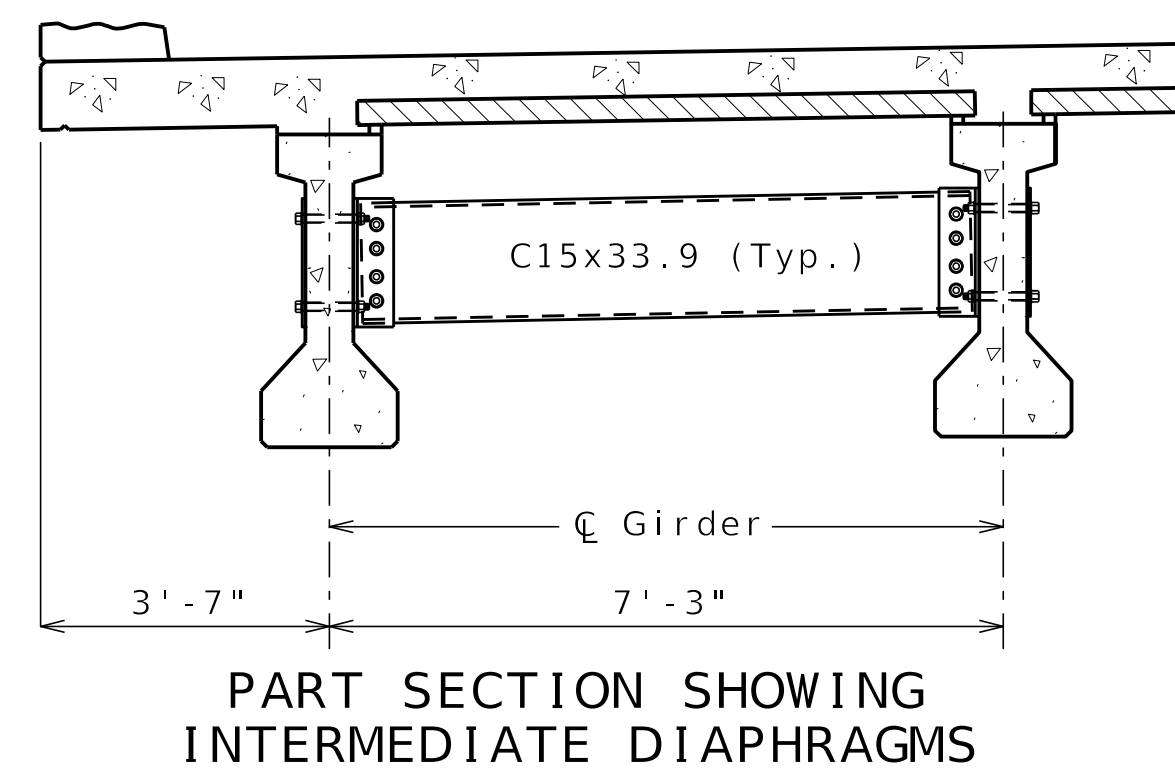
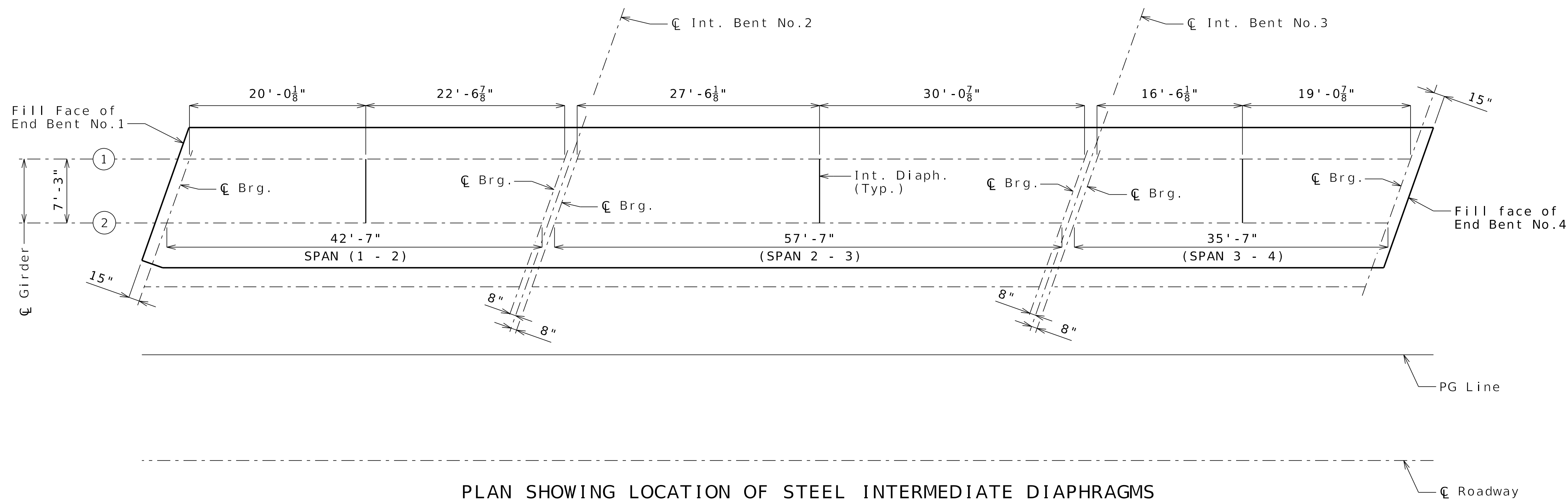
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

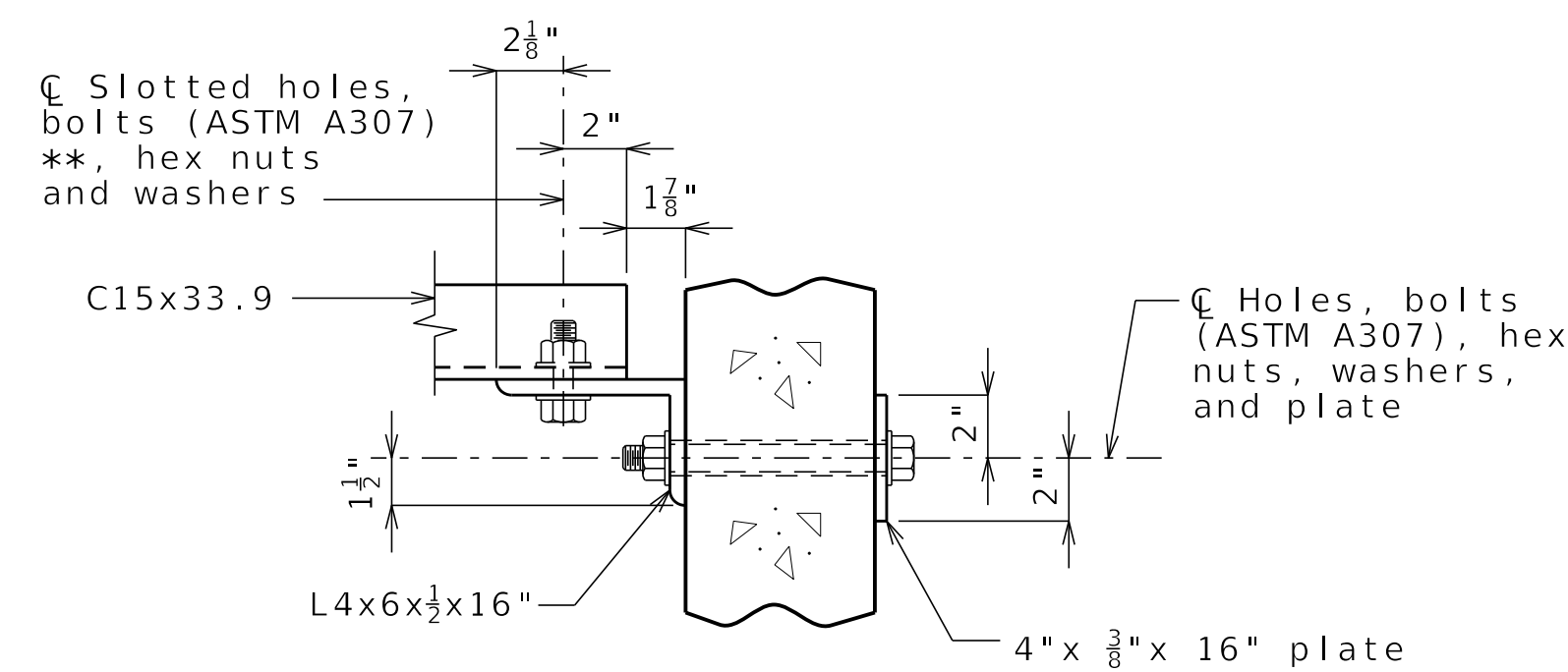
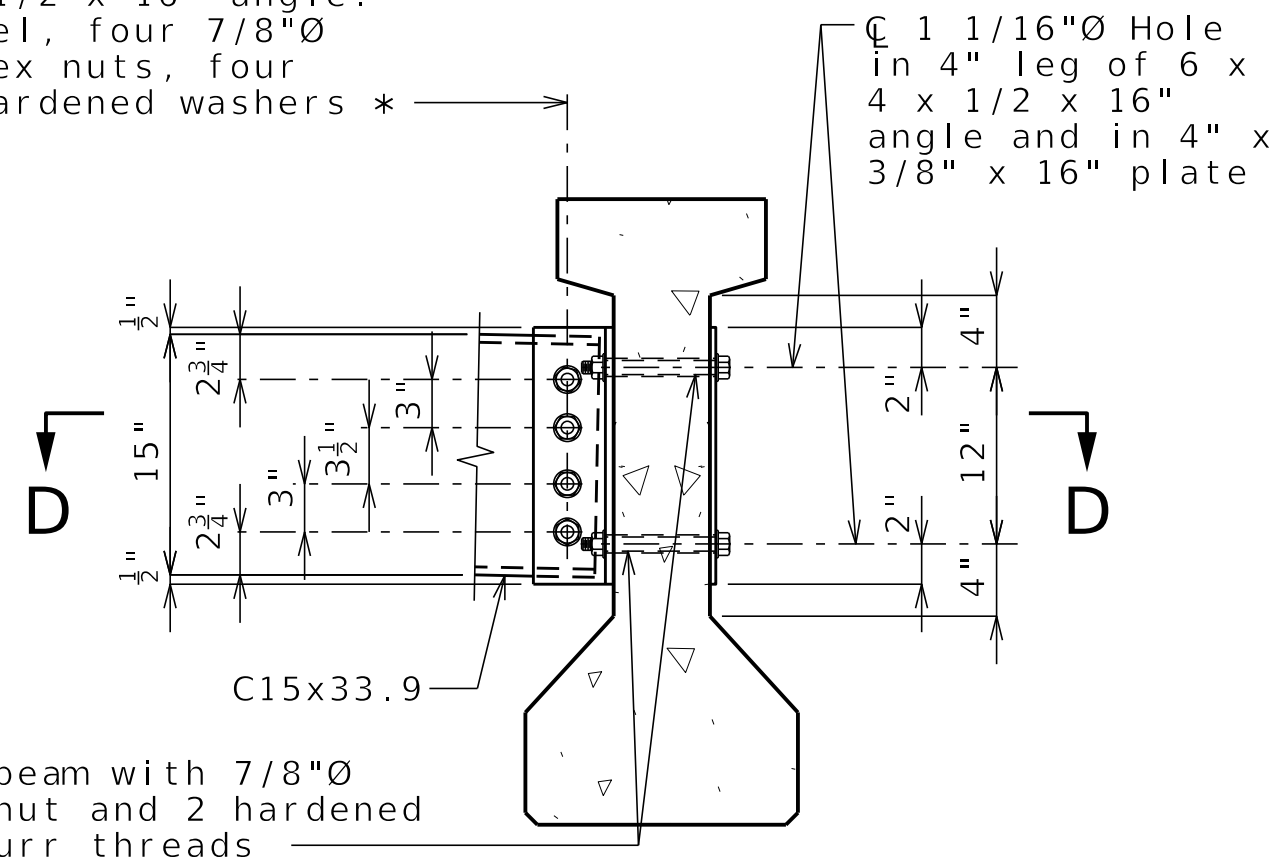
IMPROVE 70 ALLIANCE

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
PHONE 816-441-3181
FAX 816-441-3182
WWW.HNTB.COM

Bartlett & West
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 816-441-3181
FAX 816-441-3182
WWW.BARTLETTWEST.COM



Four 1 1/16" x 2 1/4" horizontal slotted holes in 6" leg of 6 x 4 x 1/2 x 16" angle. Four 15/16"Ø holes in channel, four 7/8"Ø bolts (ASTM A307) ** with hex nuts, four 2 1/2" O.D. washers and 8 hardened washers *



STEEL DIAPHRAGM NOTES:

* In lieu of 2 1/2" outside diameter washers, contractor may substitute a 3/16" (Min. thickness) plate with four 15/16" Ø holes and one hardened washer per bolt.

** Bolts shall be tightened to provide a tension of one-half that specified in Sec 712 for high strength bolt installation. ASTM F3125 Grade A325 Type 1 bolts may be substituted for and installed in accordance with the requirements for the specified ASTM A307 bolts.

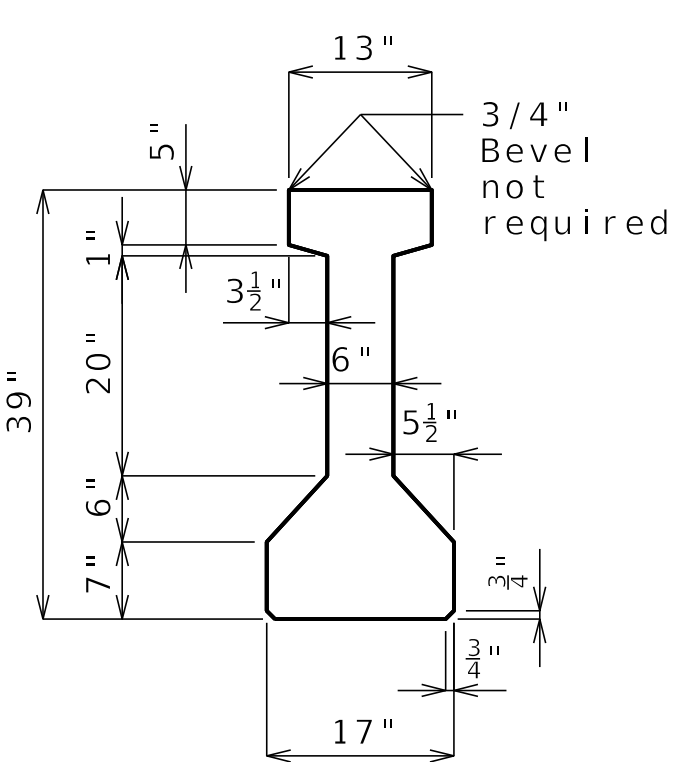
All diaphragm materials including bolts, nuts, and washers shall be galvanized.

Fabricated structural steel shall be ASTM A709 Grade 36 except as noted.

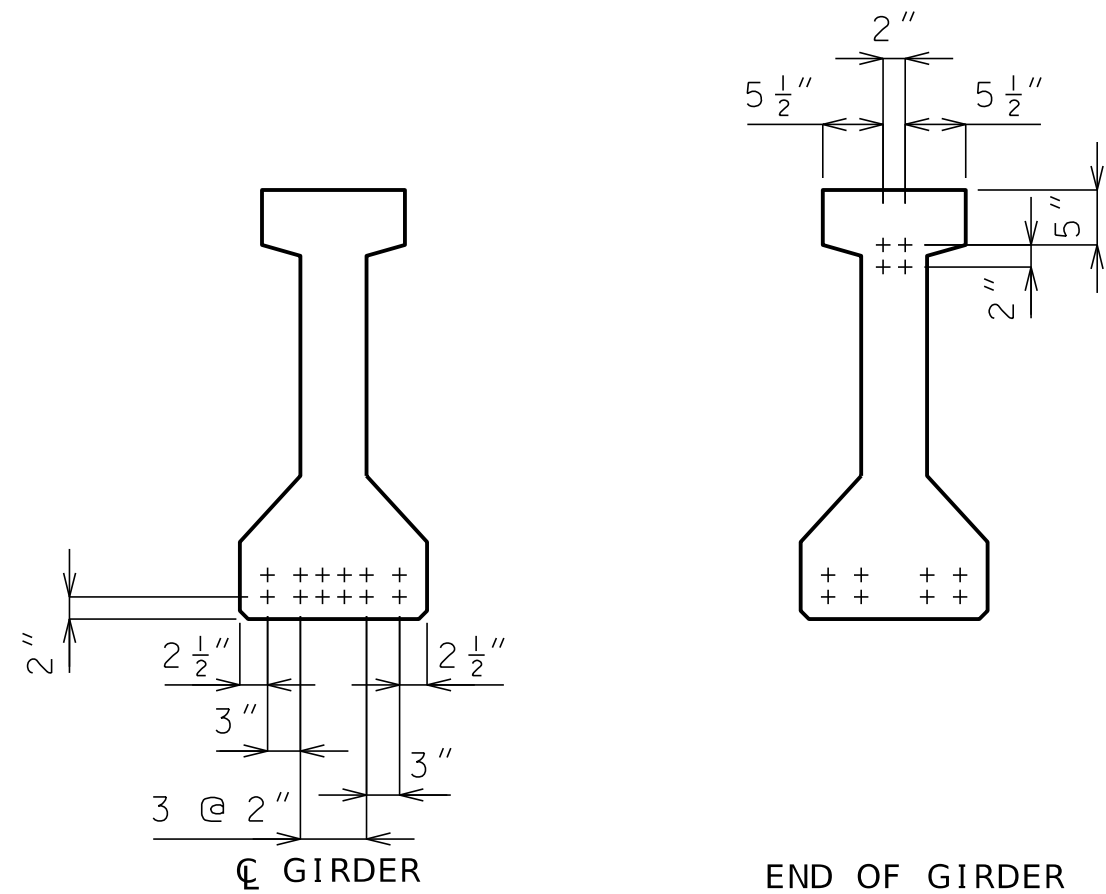
Payment for furnishing and installing steel intermediate diaphragms will be considered completely covered by the contract unit price for Steel Intermediate Diaphragm for P/S Concrete Girders.

Shop drawings will not be required for steel intermediate diaphragms and angle connections.

DATE PREPARED 4/25/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B01 - 17
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43232	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
IMPROVE 70 ALLIANCE	
715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	
HNTB	
Bartlett & West 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 572-430-3181 FAX 572-430-3181 WWW.BARTLETTWEST.COM	

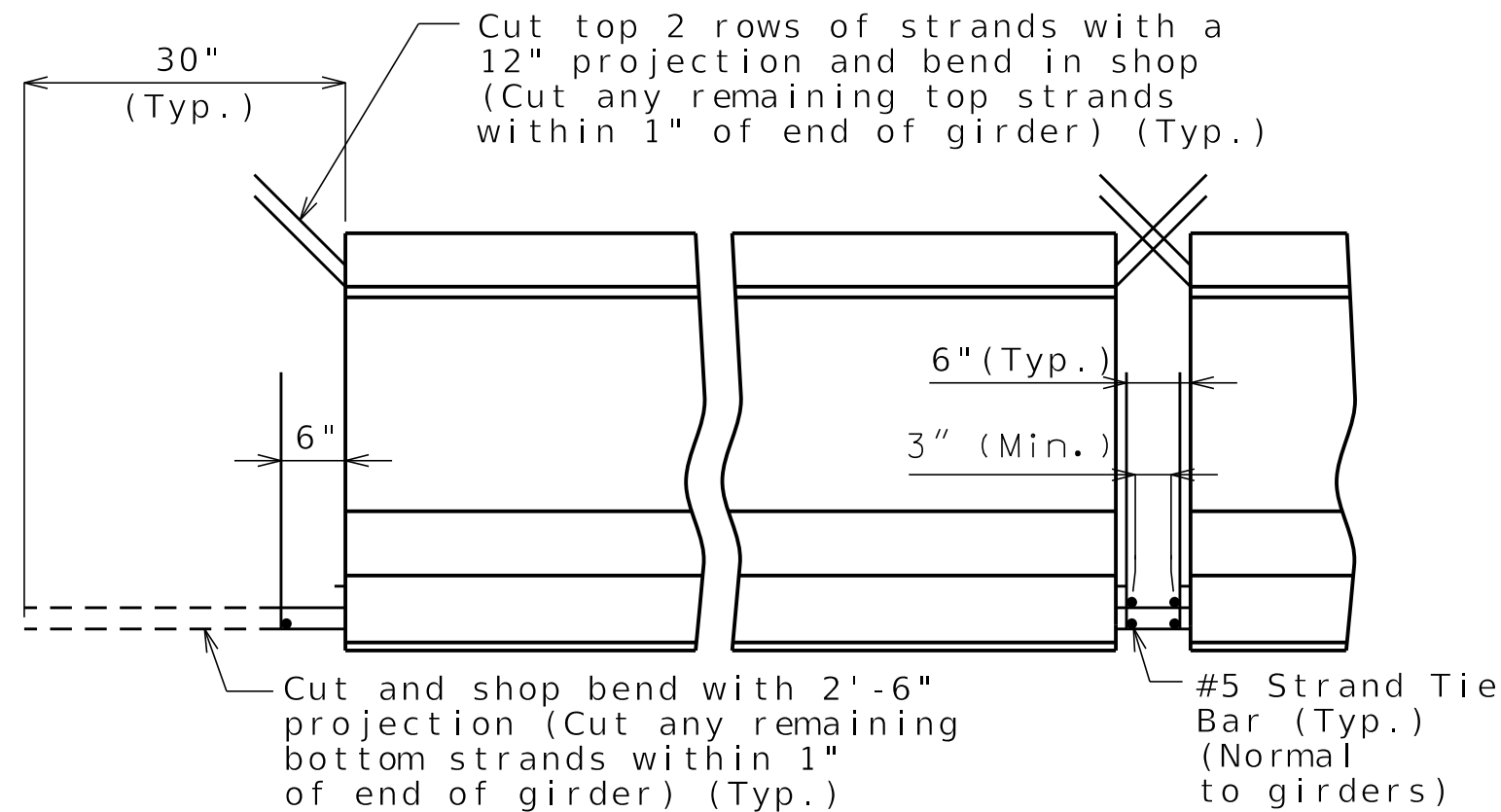


DIMENSIONS

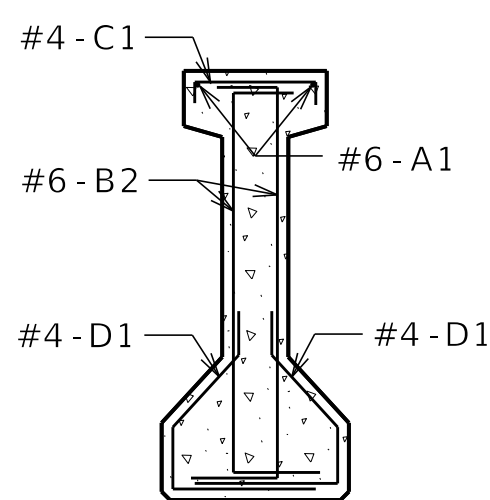


STRAND ARRANGEMENT

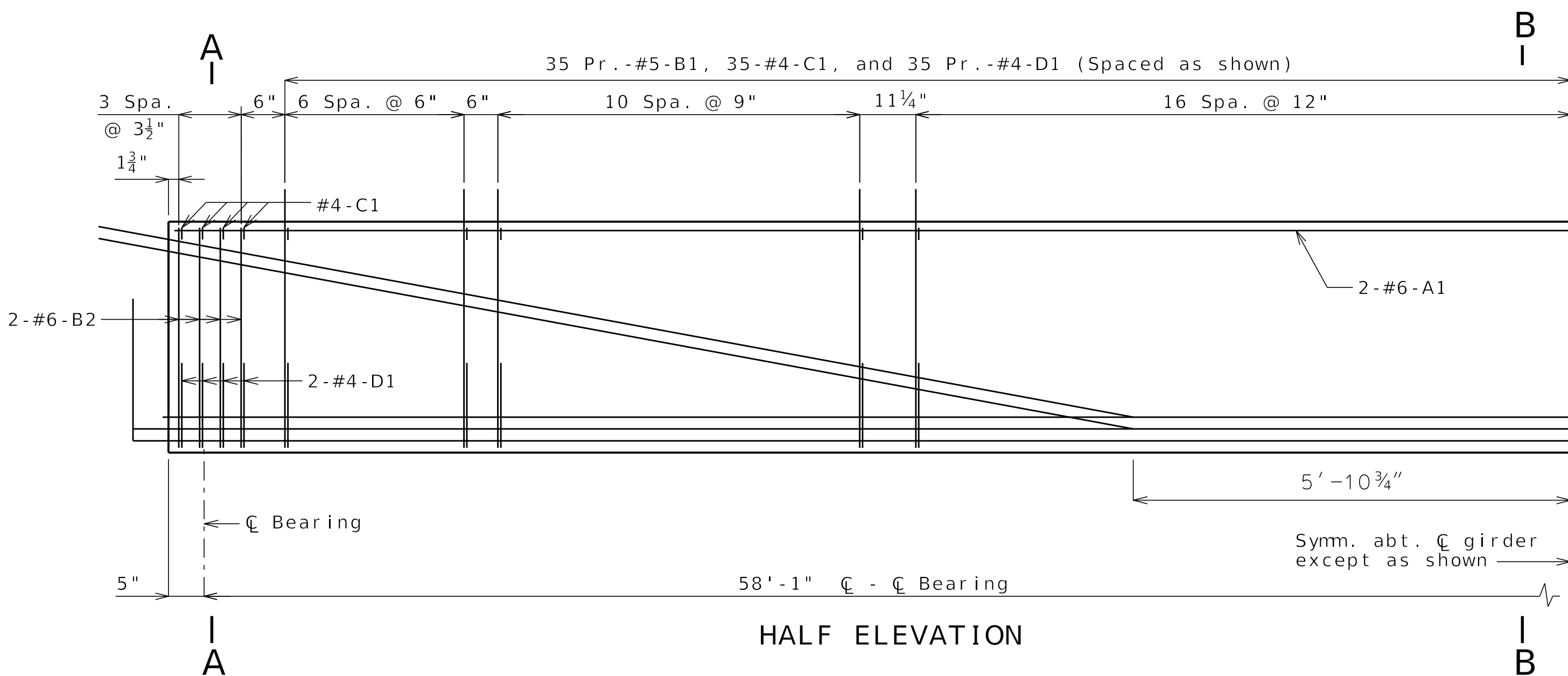
+ Indicates prestressing strand. ○ Indicates cut & shop bend with 2'-6" projection.



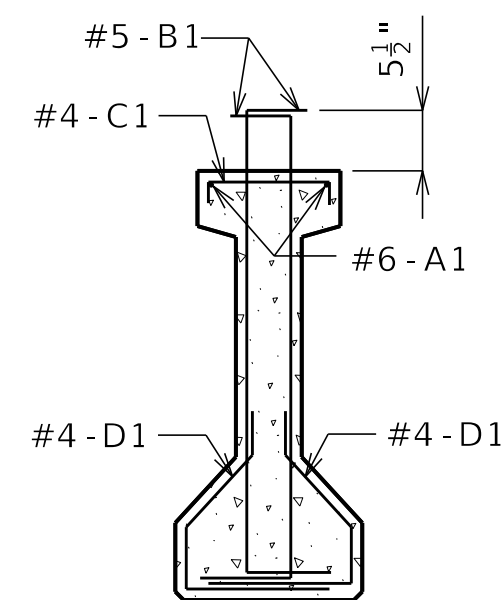
STRANDS AT GIRDER ENDS



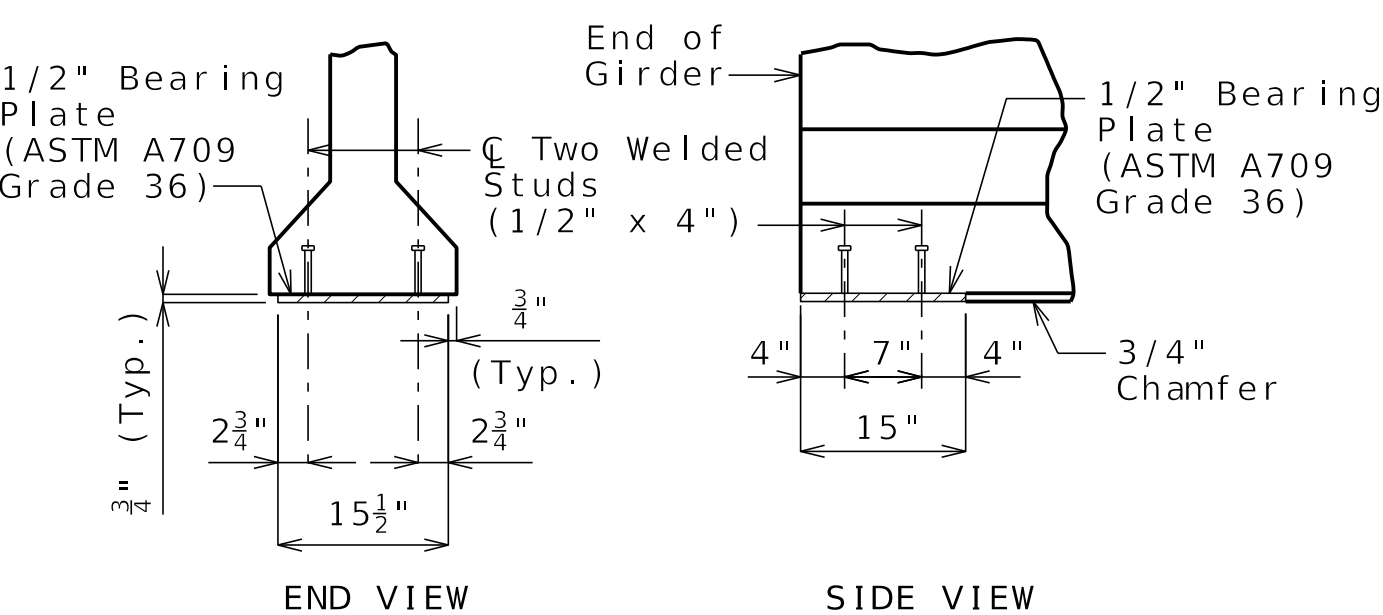
SECTION A-A
Strands not shown for clarity.



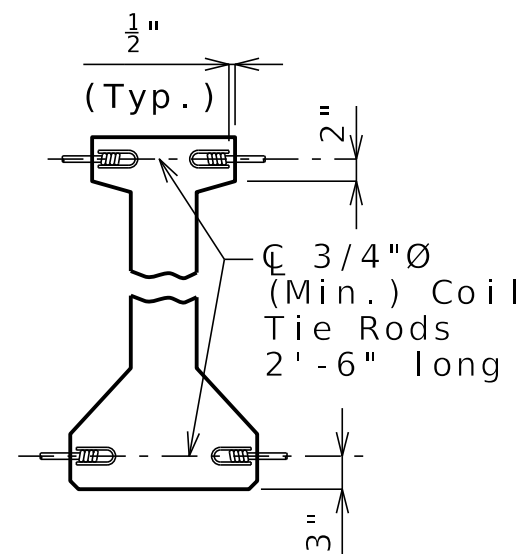
HALF ELEVATION



SECTION B-B
Strands not shown for clarity.



BEARING PLATE



COIL TIES

Exclude coil tie at intermediate bent diaphragms as shown on Sheet No. X.

BILL OF REINFORCING STEEL - EACH GIRDER					
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAM	
2	6 A1	58'-8"	20	SHAPE 10S	
138	5 B1	4'-7"	11S	SHAPE 9S	
16	6 B2	4'-0"	11S	SHAPE 20	
77	4 C1	13"	10S	SHAPE 11S	
154	4 D1	2'-5"	9S		

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be one inch.

All reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

General Notes:

Concrete for prestressed girders shall be Class A-1 with $f'_c = 6,000$ psi and $f'_{ci} = 4,500$ psi.

Use 12 strands, 0.6"Ø Grade 270, with an initial prestress force of 527 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

For Girder Camber Diagram, see Sheet No. 23.

The 1 1/2"Ø holes shall be cast in the web for steel intermediate diaphragms. Drilling is not allowed. For location of holes and details of steel intermediate diaphragms, see Sheet No. 17.

For location of coil inserts at slab drains, see Sheet No. 22.

For location of coil ties at concrete diaphragms, see Sheet No. 21.

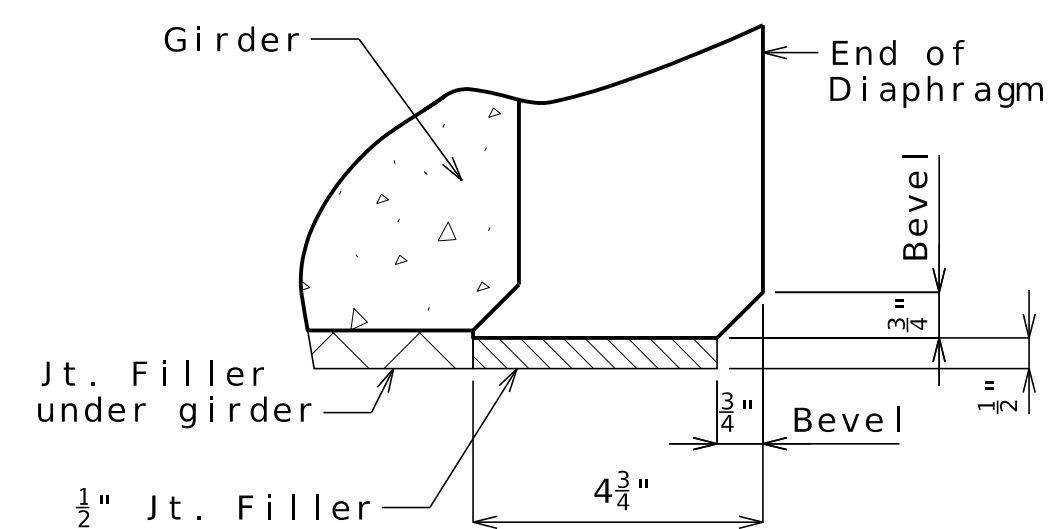
I - GIRDERS - SPAN (2-3)

Sheet 19 of XX

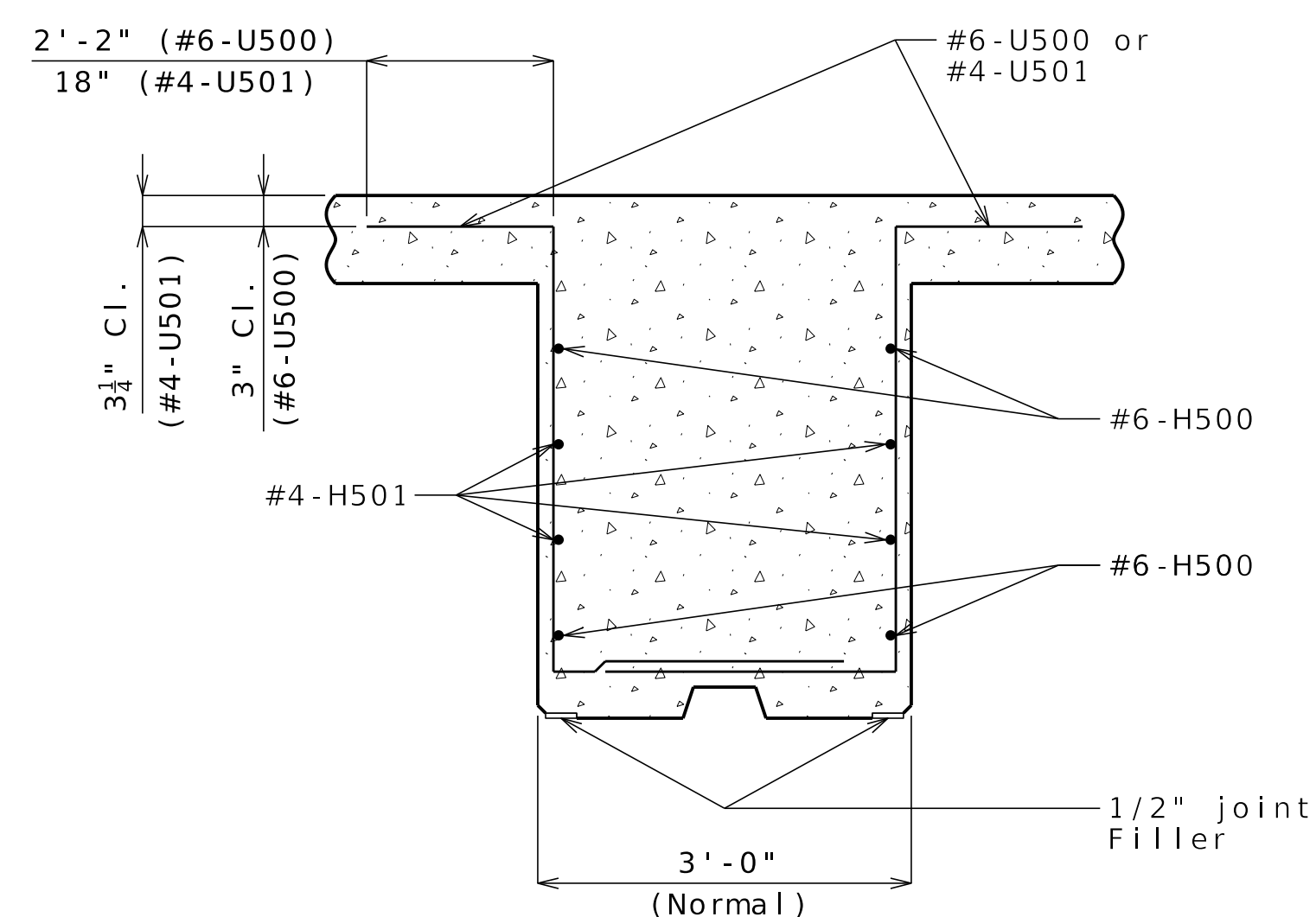
I - GIRDERS - SPAN (2-3)

Detailed JUL 2025
Checked JUL 2025

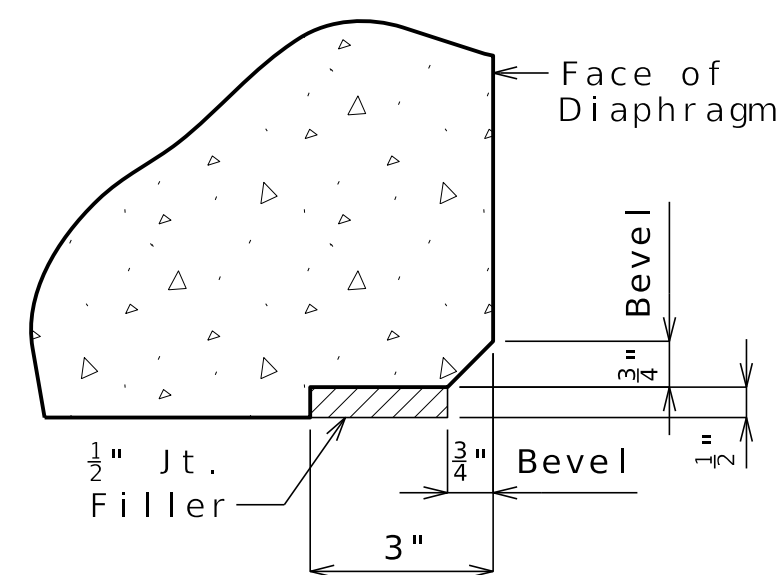
Note: This drawing is not to scale. Follow dimensions.



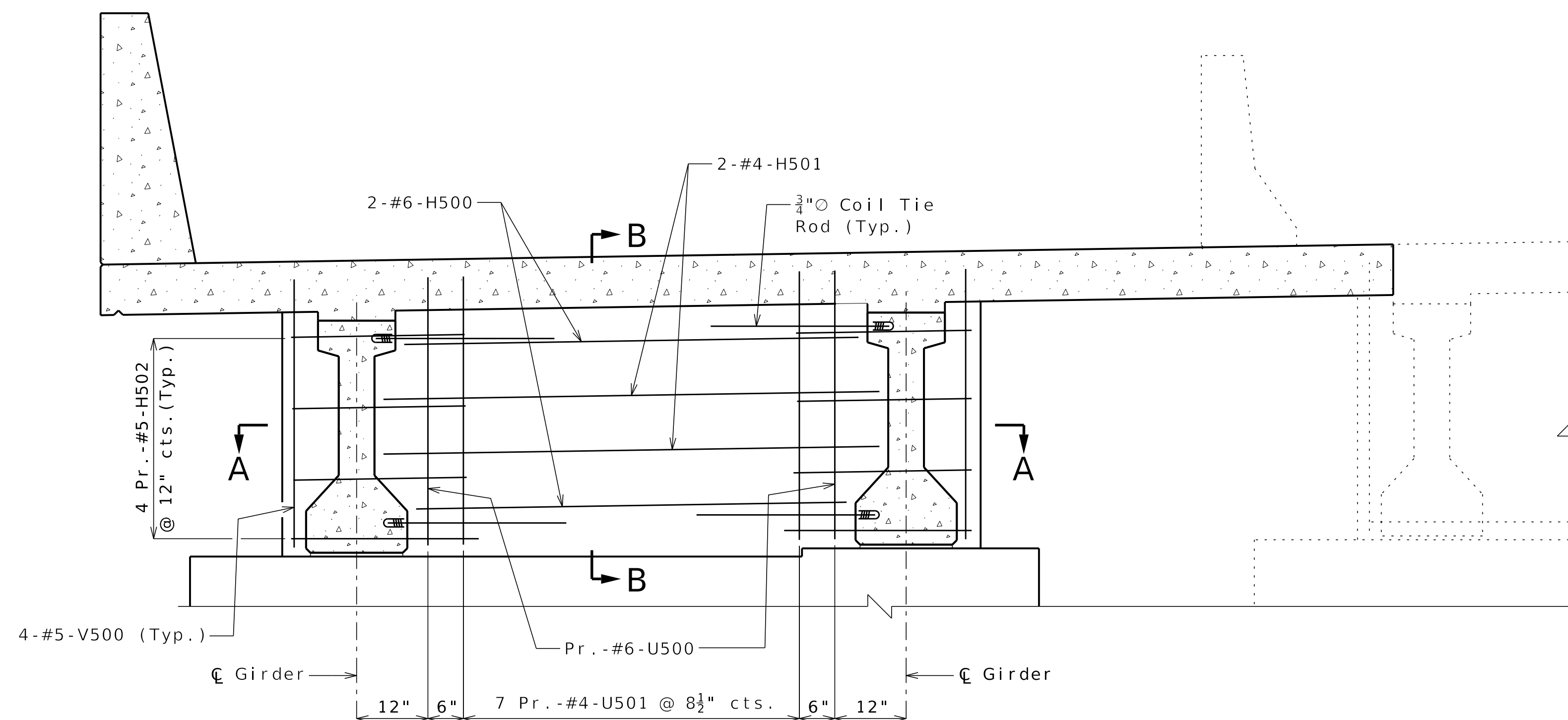
END DETAIL



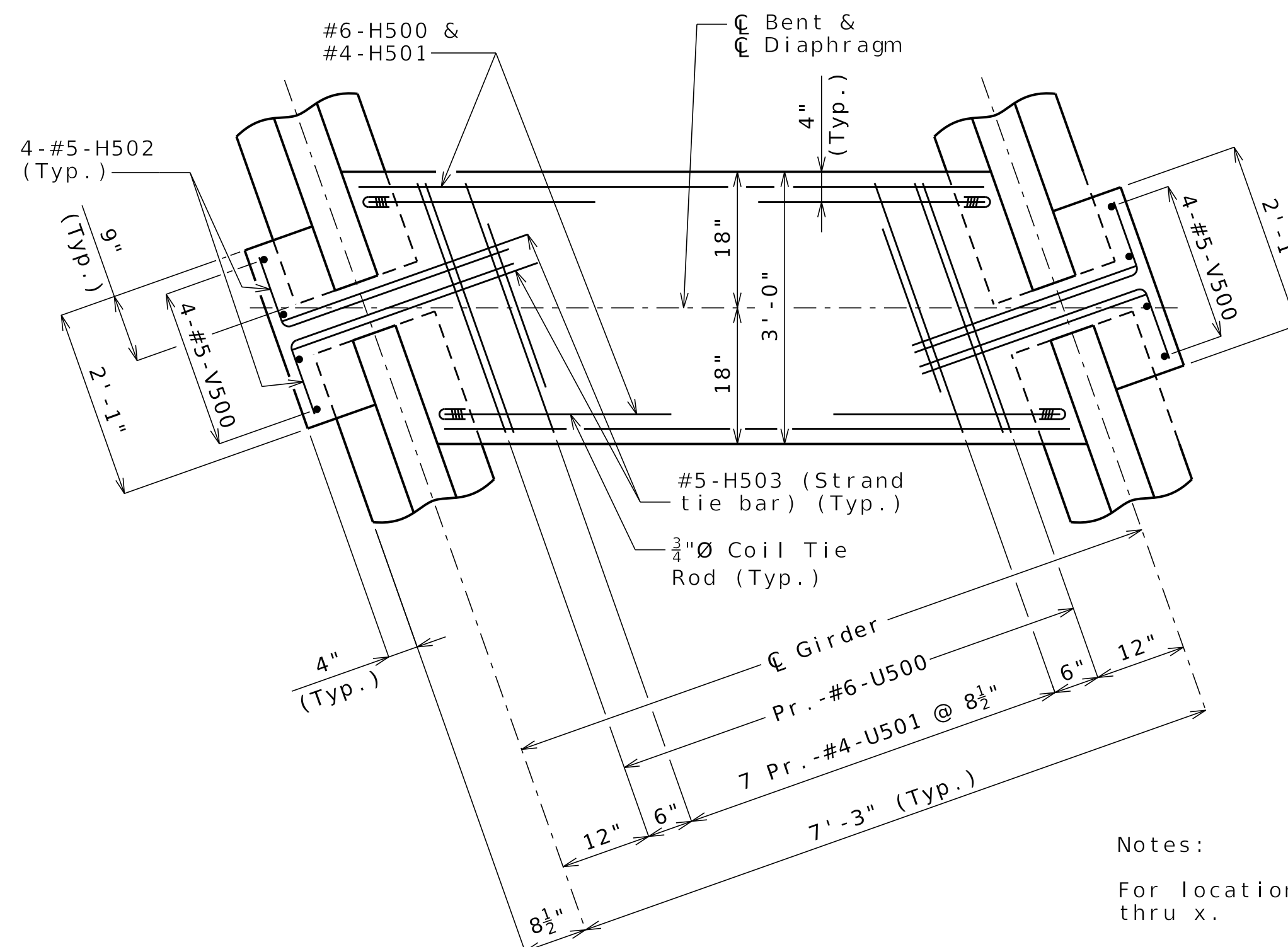
SECTION B-B



EDGE DETAIL



SECTION NEAR INTERMEDIATE BENT



SECTION A-A

Notes:

For location and number of Strand Tie Bars, see Sheets No. x thru x.

For location and details of Coil Tie Rods, see Sheets No. x thru x.

Diaphragms at intermediate bents shall be built vertical.

All U-bars in diaphragms are to be placed parallel to C Roadway.

See Details of Intermediate Bents for shear key, dowel placement, and joint filler details not shown here.

CONCRETE DIAPHRAGM AT INTERMEDIATE BENTS

DATE PREPARED	
4/25/2025	
ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
BR	B01-2
COUNTY	
ST. CHARLES	
JOB NO.	
JST0020	
CONTRACT ID.	

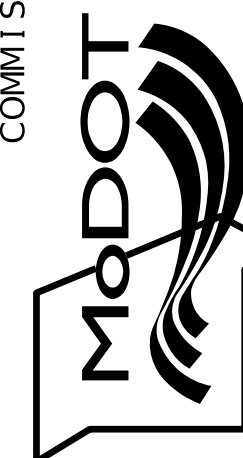
PROJECT NO.
BRIDGE NO. A43232

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

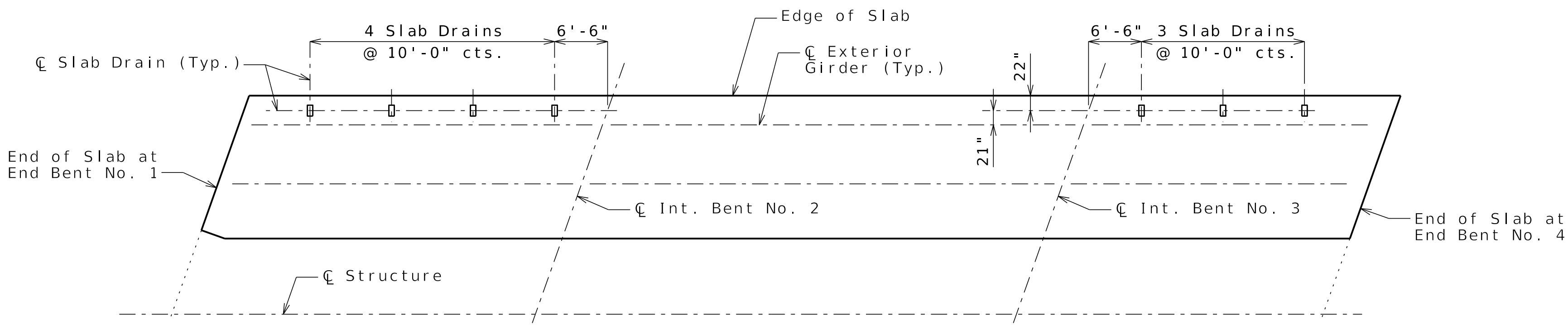
MoDOT

105 WEST CAPITAL
JEFFERSON CITY, MO 65102

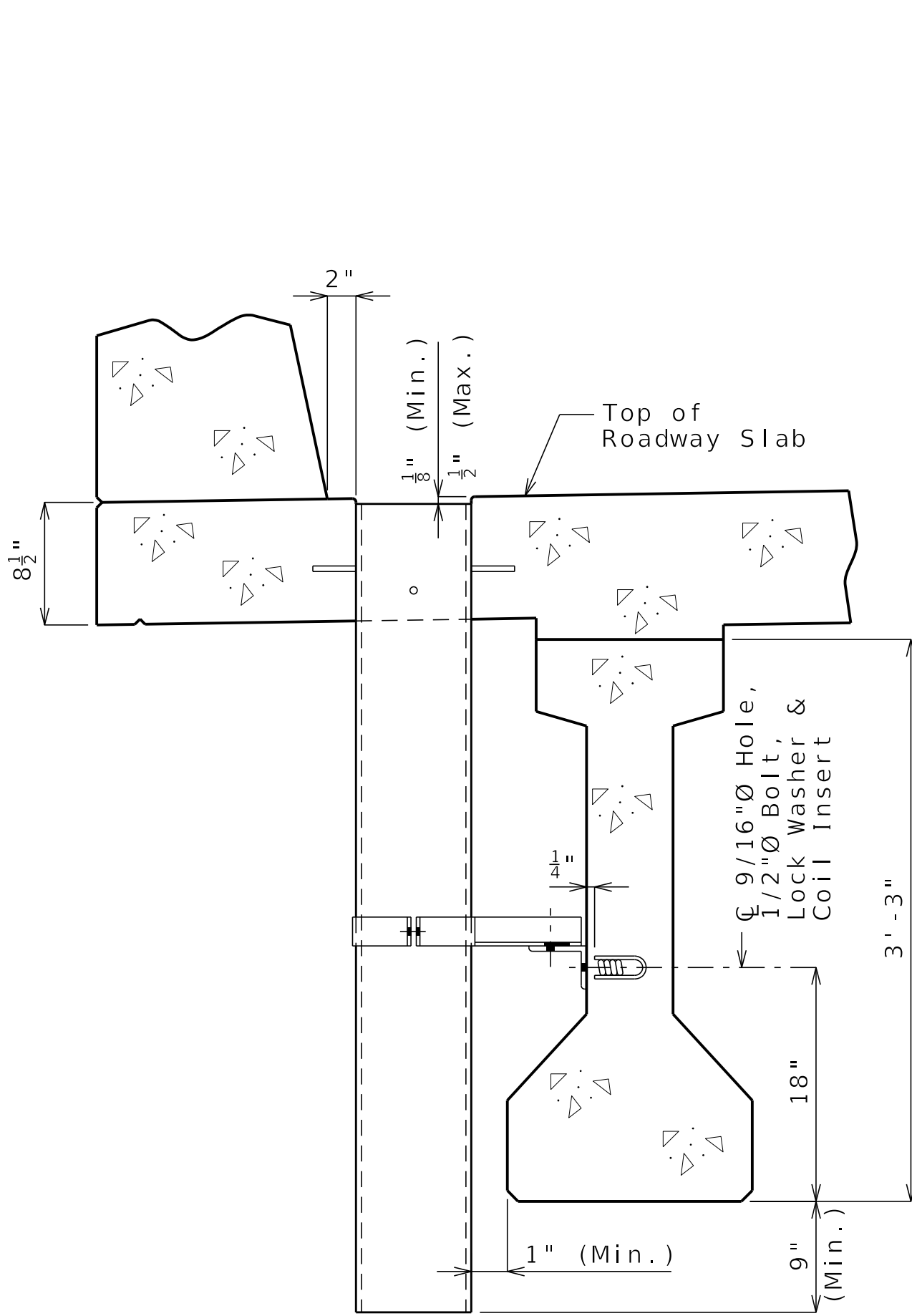


HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

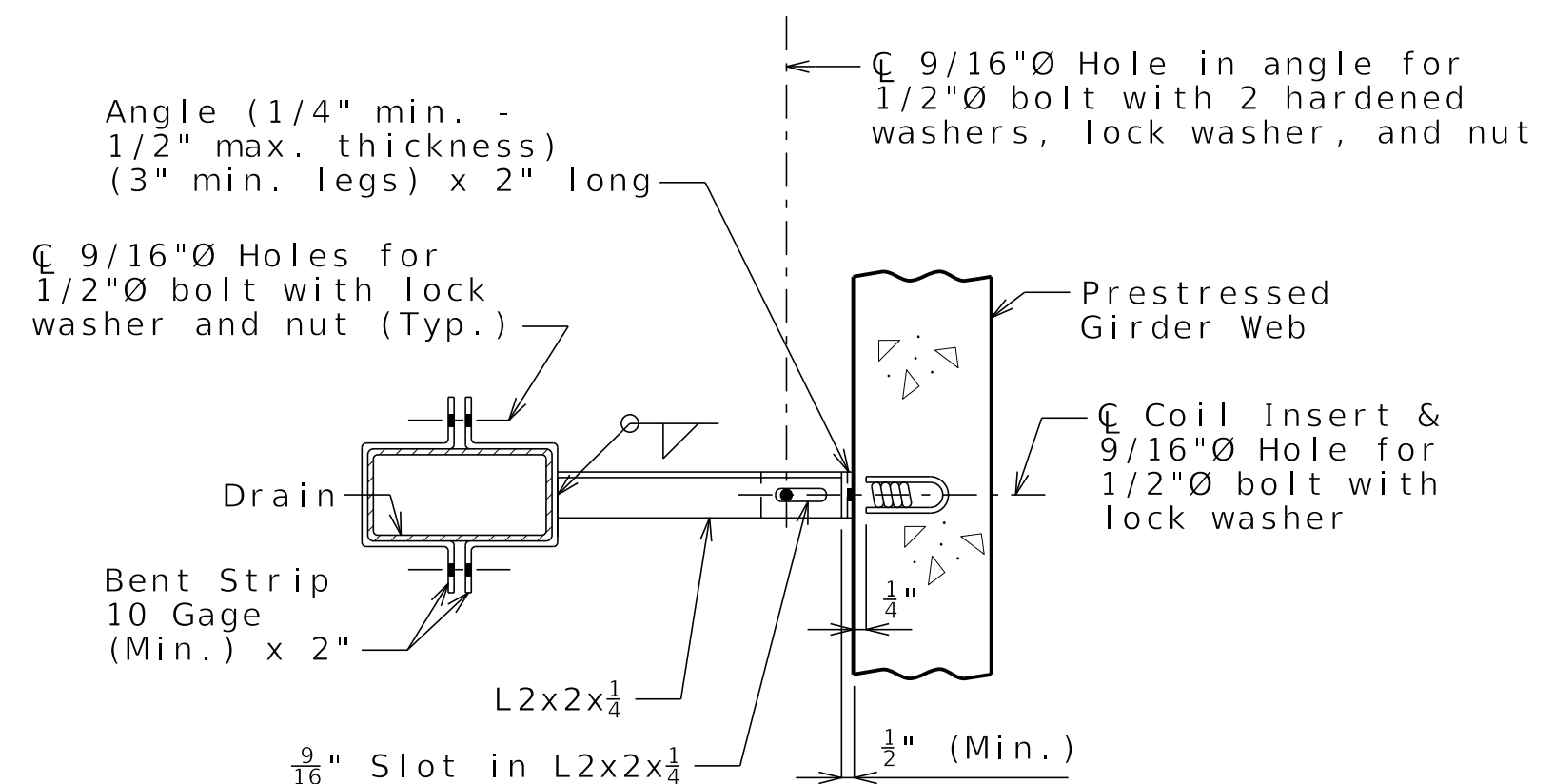
Bartlett & West
601 MONROE ST., SUITE 201 • JEFFERSON CITY, MO 65101
PHONE 573-636-3161



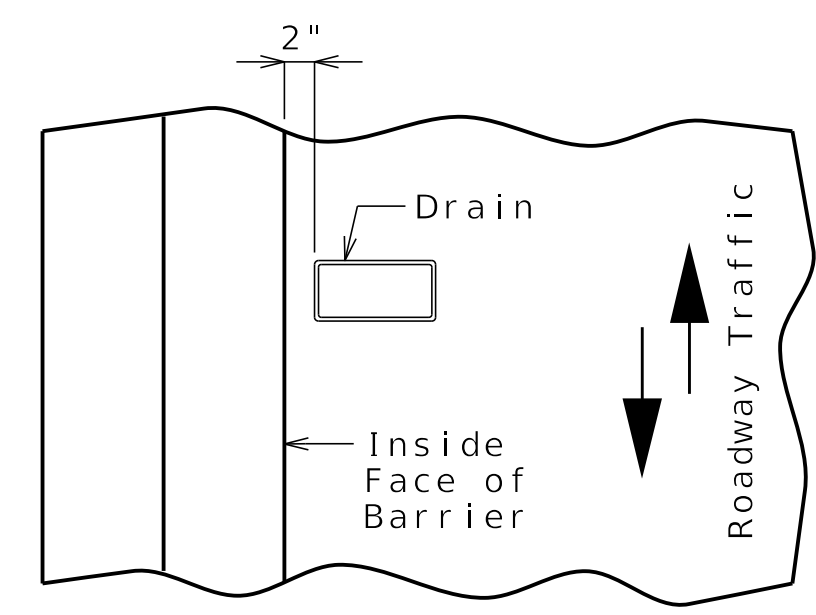
PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



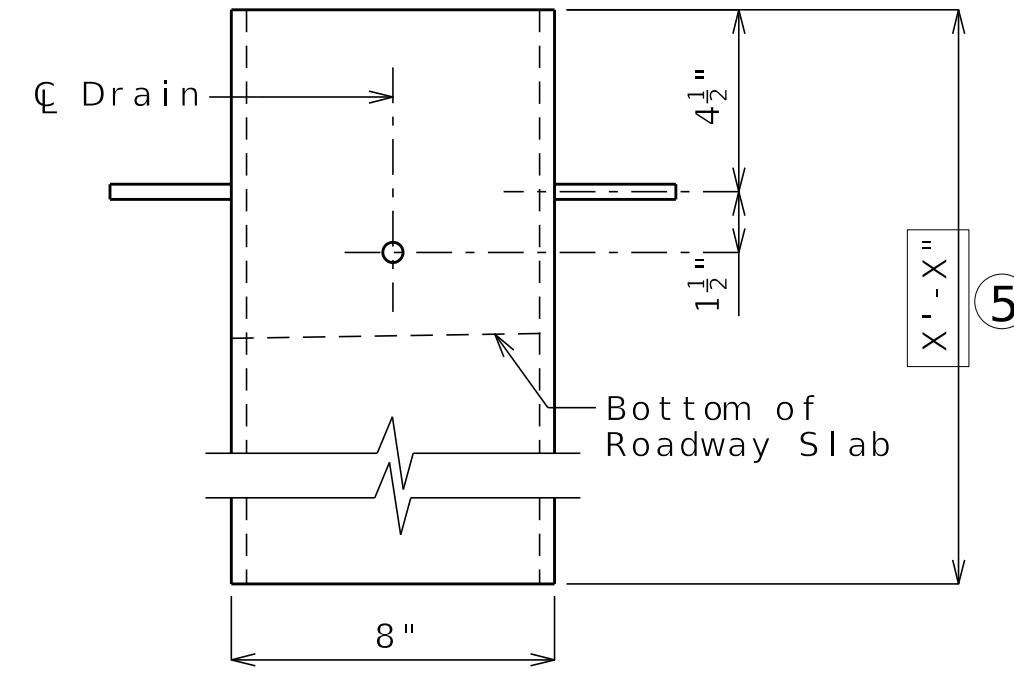
PART SECTION NEAR DRAIN



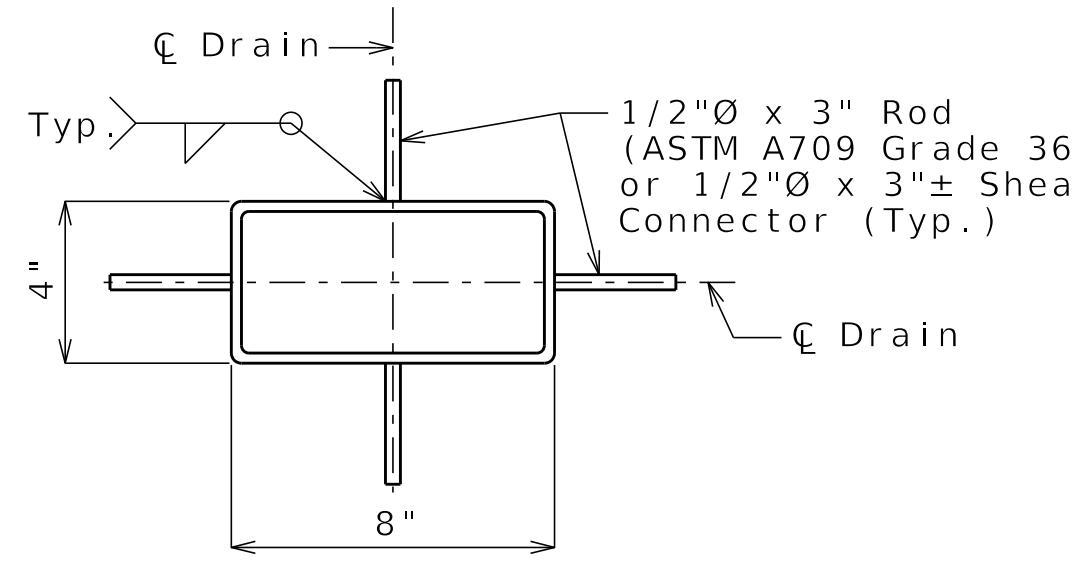
PART SECTION SHOWING BRACKET ASSEMBLY



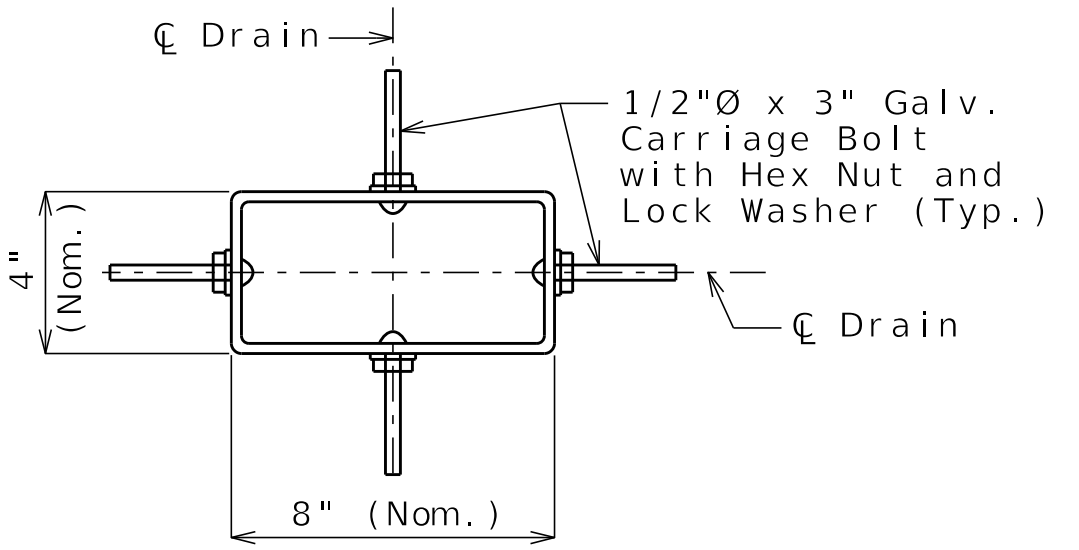
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The coil inserts and bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø bolts shall be ASTM A307.

Shop drawings will not be required for the slab drains and the bracket assembly.

The coil insert required for the bracket assembly attachment shall be located on the prestressed girder shop drawings.

Coil inserts shall have a concrete pull-out strength (ultimate load) of at least 2,500 pounds in 5,000 psi concrete.

The bolt required to attach the slab drain bracket assembly to the prestressed girder web shall be supplied by the prestressed girder fabricator.

Notes for Steel Drain:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be as recommended by the manufacturer to ensure a smooth, chip free cut.

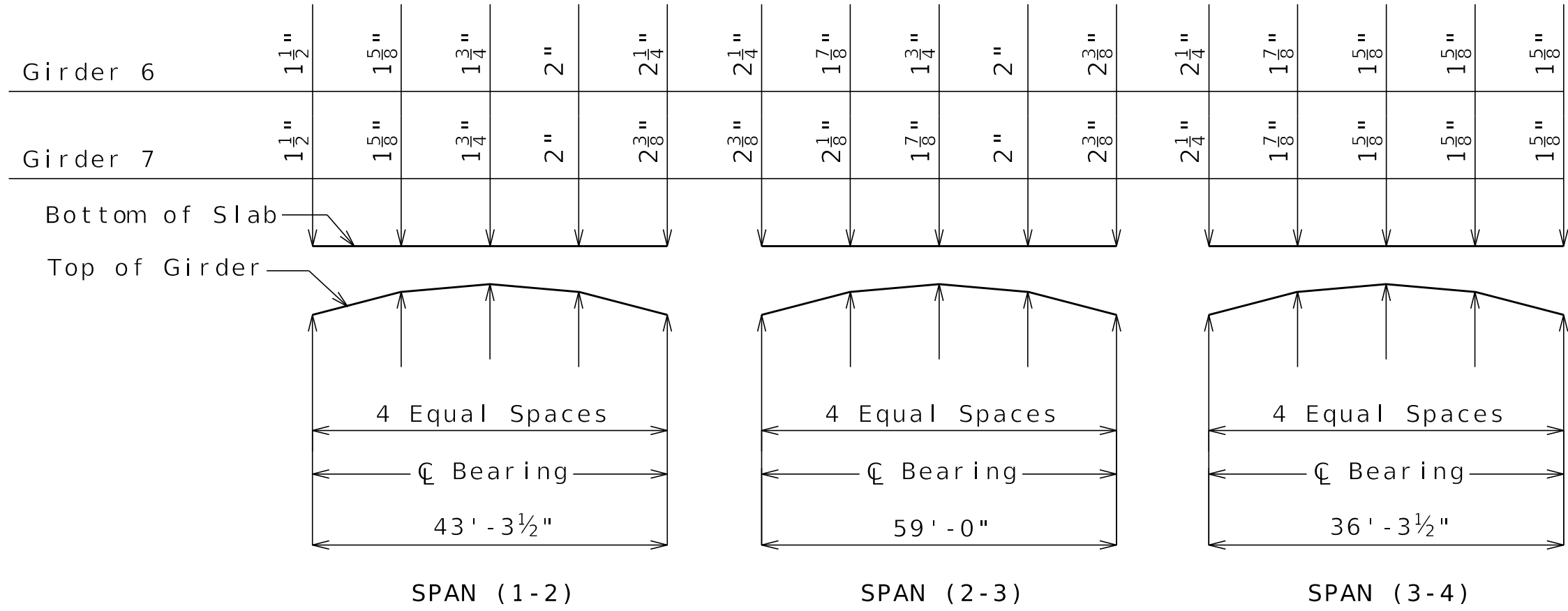
SLAB DRAINS

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet 23 of XX

DATE PREPARED 4/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B01-23
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43232	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
HNTB 715 N. KIRK DRIVE KANSAS CITY, MO 64105-1310 PHONE 816-441-3181 FAX 816-441-3182 WWW.HNTB.COM	Bartlett & West 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 816-441-3181 FAX 816-441-3182 WWW.BARTLETTWEST.COM

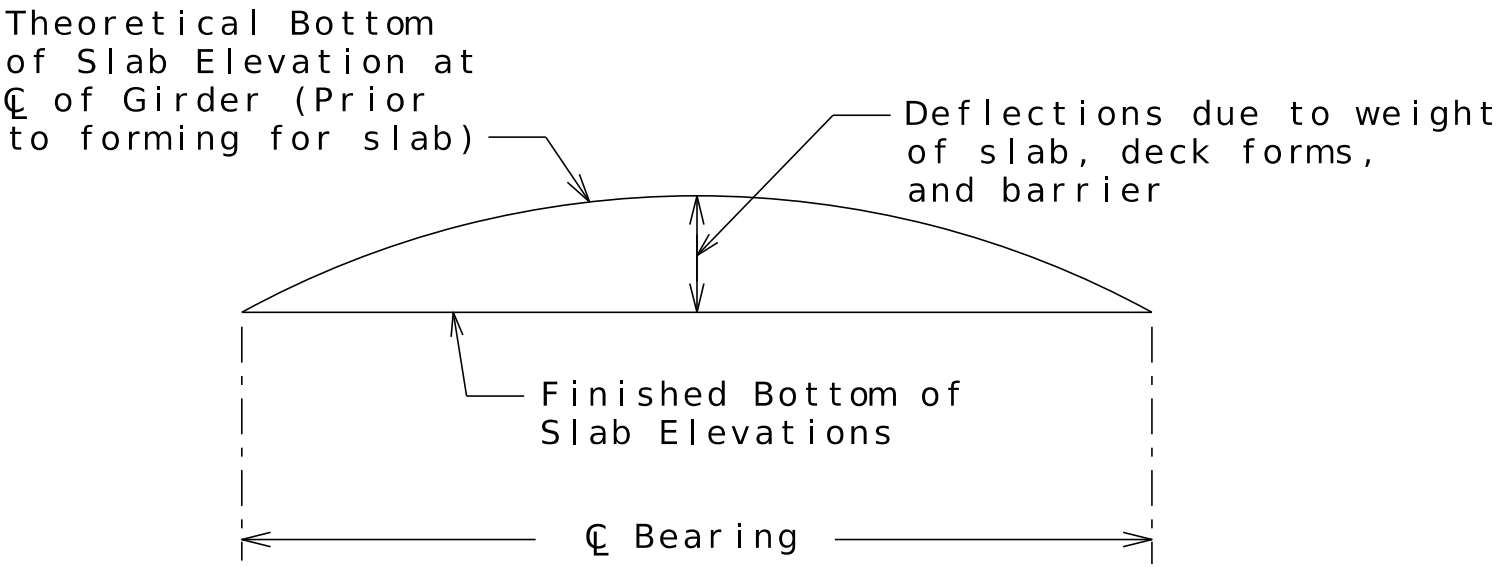


THEORETICAL SLAB HAUNCHING DIAGRAM (ESTIMATED AT 90 DAYS)

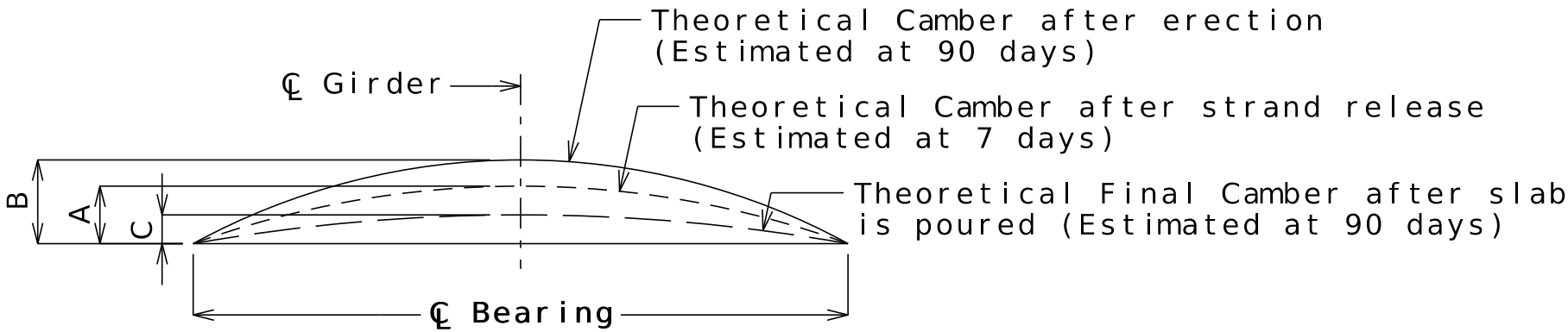
If girder camber is different from that shown in the camber diagram, in order to maintain minimum slab thickness, an adjustment of the slab haunches shall be necessary. The haunch shall be limited to ensure the projecting girder reinforcement is embedded into the slab at least 2 inches.

Theoretical Bottom of Slab Elevations at Centerline of Girder (Prior to forming for slab) (Estimated at 90 days)															
Girder Number	Span (1-2) (43'-3½" CL Brg. - CL Brg.)					Span (2-3) (59'-0" CL Brg. - CL Brg.)					Span (3-4) (36'-3½" CL Brg. - CL Brg.)				
	CL Brg.	.25	.50	.75	CL Brg.	CL Brg.	.25	.50	.75	CL Brg.	CL Brg.	.25	.50	.75	CL Brg.
1	598.59	598.60	598.61	598.59	598.56	598.56	598.59	598.57	598.51	598.40	598.39	598.36	598.32	598.27	598.21
2	598.70	598.72	598.72	598.71	598.68	598.68	598.71	598.69	598.63	598.52	598.51	598.48	598.44	598.40	598.34

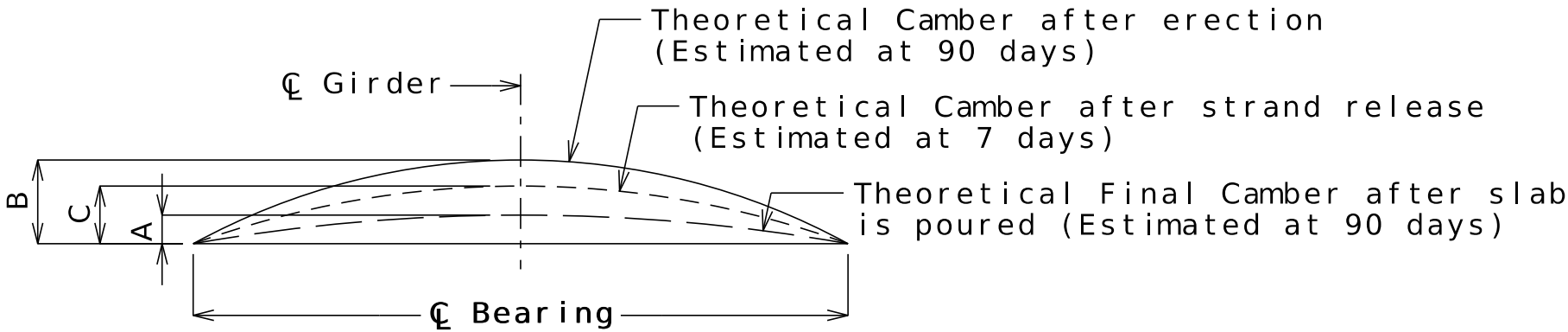
Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab (including precast panel) and barrier.



TYPICAL SLAB ELEVATIONS DIAGRAM



Girder	Span (2-3)		
	A	B	C
6	1"	1 1/2"	7/8"
7	1"		



Girder	Span (1-2)			Span (2-3)			Span (3-4)		
	A	B	C	A	B	C	A	B	C
6	1 1/8"	1/2"	1/2"	1"	1 5/8"	7/8"	1 1/8"	1/2"	1"
7	1 1/8"			1"			1 1/8"		

GIRDER CAMBER DIAGRAM

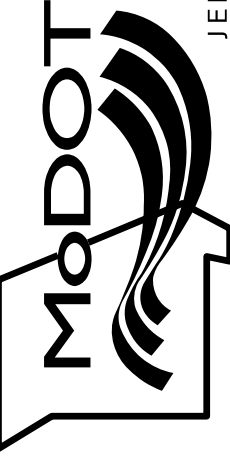
Conversion Factors for Girder Camber (Estimated at 90 days):

0.25 pt. = 0.7125 x 0.5 pt.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



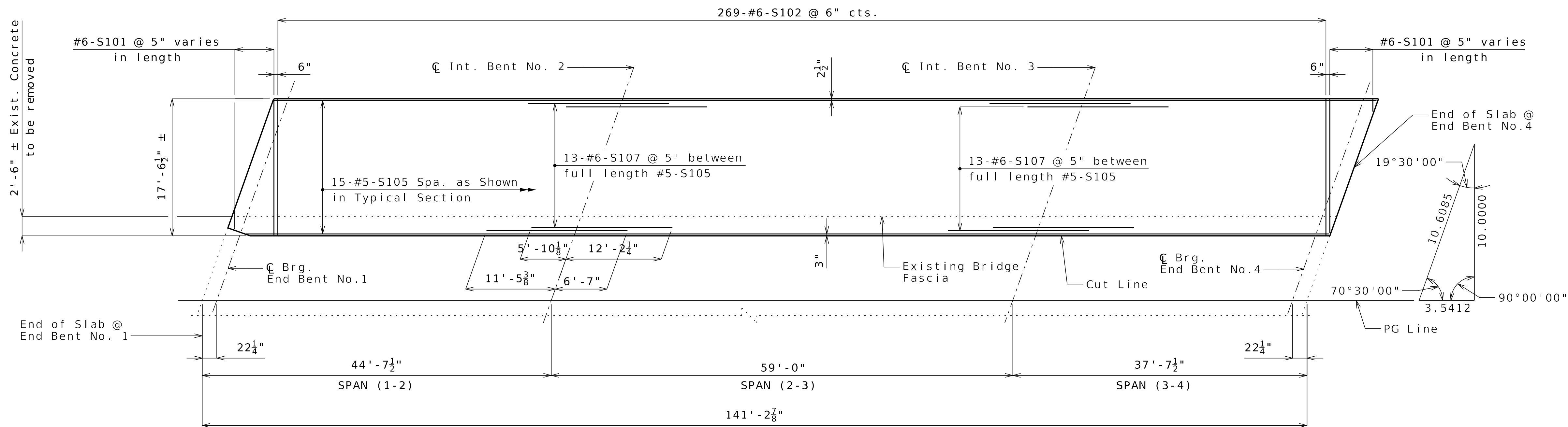
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
PHONE 877-433-3181
FAX 816-234-7000
CERTIFICATE OF AUTHORITY
NO. 001270

Bartlett & West
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-633-3181
FAX 573-633-3182
WWW.BARTLETTWEST.COM
CERTIFICATE OF AUTHORITY
NO. 001270

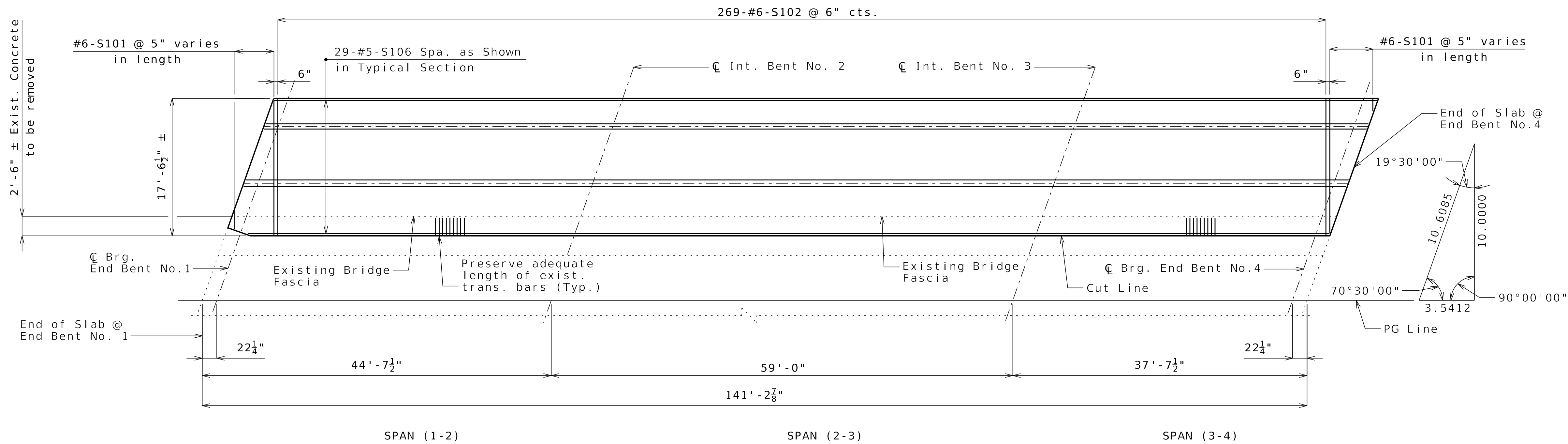
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DATE PREPARED
4/25/2025
ROUTE
1-70
STATE
MO
DISTRICT
BR
SHEET NO.
B01-24
COUNTY
ST. CHARLES
JOB NO.
JST0020
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A43232



TOP REINFORCING PLAN
Longitudinal dimensions are horizontal.



PLAN SHOWING LOCATION OF SLAB SHOWING BOTTOM REINFORCEMENT
Longitudinal dimensions are horizontal.

Notes:

Longitudinal slab dimensions are measured horizontally.

For Section Thru Slab and Slab Pouring Sequence, see Sheet No. XX.

For Details and Reinforcement of Safety Barrier Curb not shown, see Sheets No. XX, XX & XX.

For Theoretical Slab Haunching Diagram, see Sheet No. XX.

For Details of Precast Prestressed Panels, see Sheet No. XX.

For Theoretical Bottom of Slab Elevations, see Sheet No. XX.

For details and locations of Slab Drains, see Sheet No. XX.

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet 25 of XX

PLAN OF SLAB SHOWING REINFORCEMENT

DATE PREPARED 4/25/2025	
ROUTE 1-70	STATE MO
DISTRICT BR	SHEET NO. B01-25
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.
A43232

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



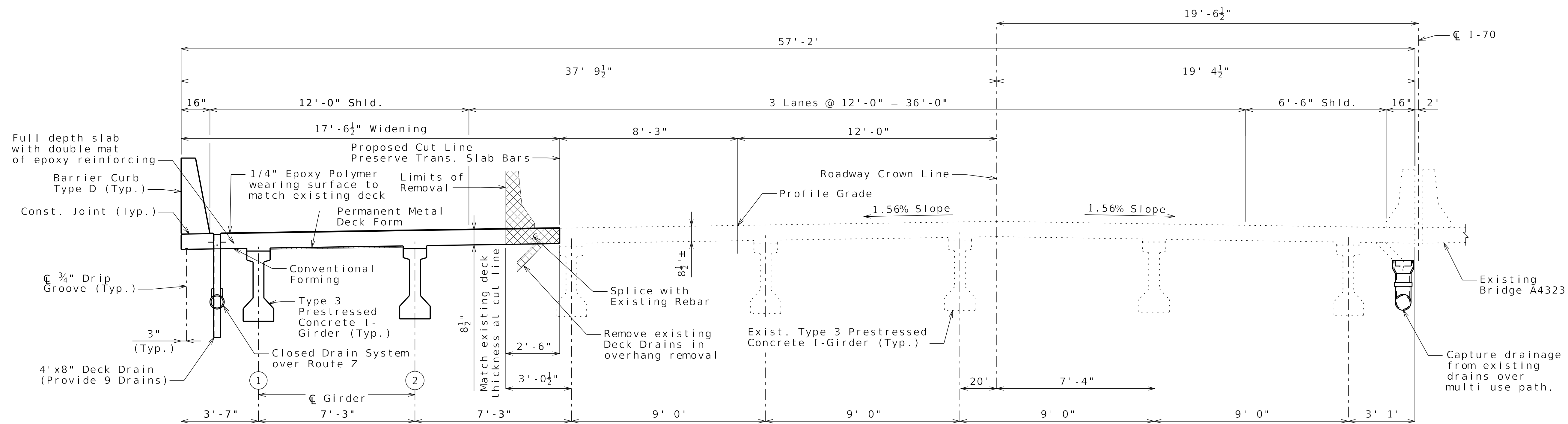
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



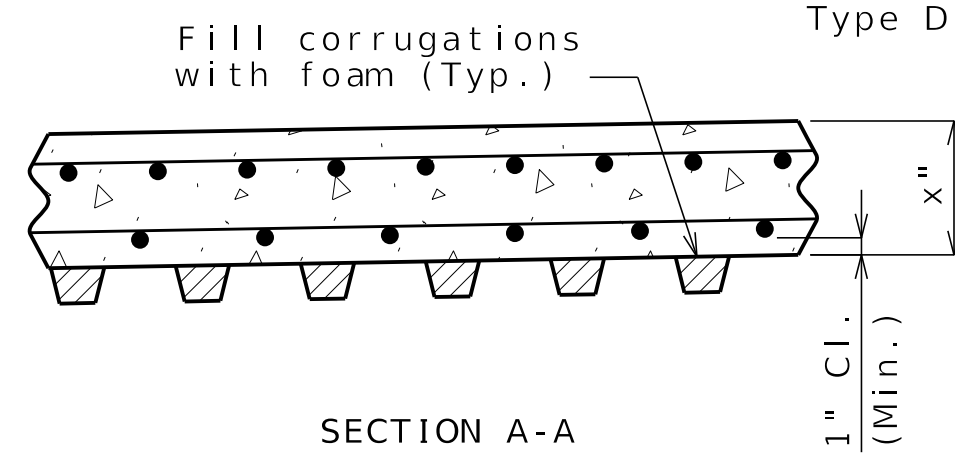
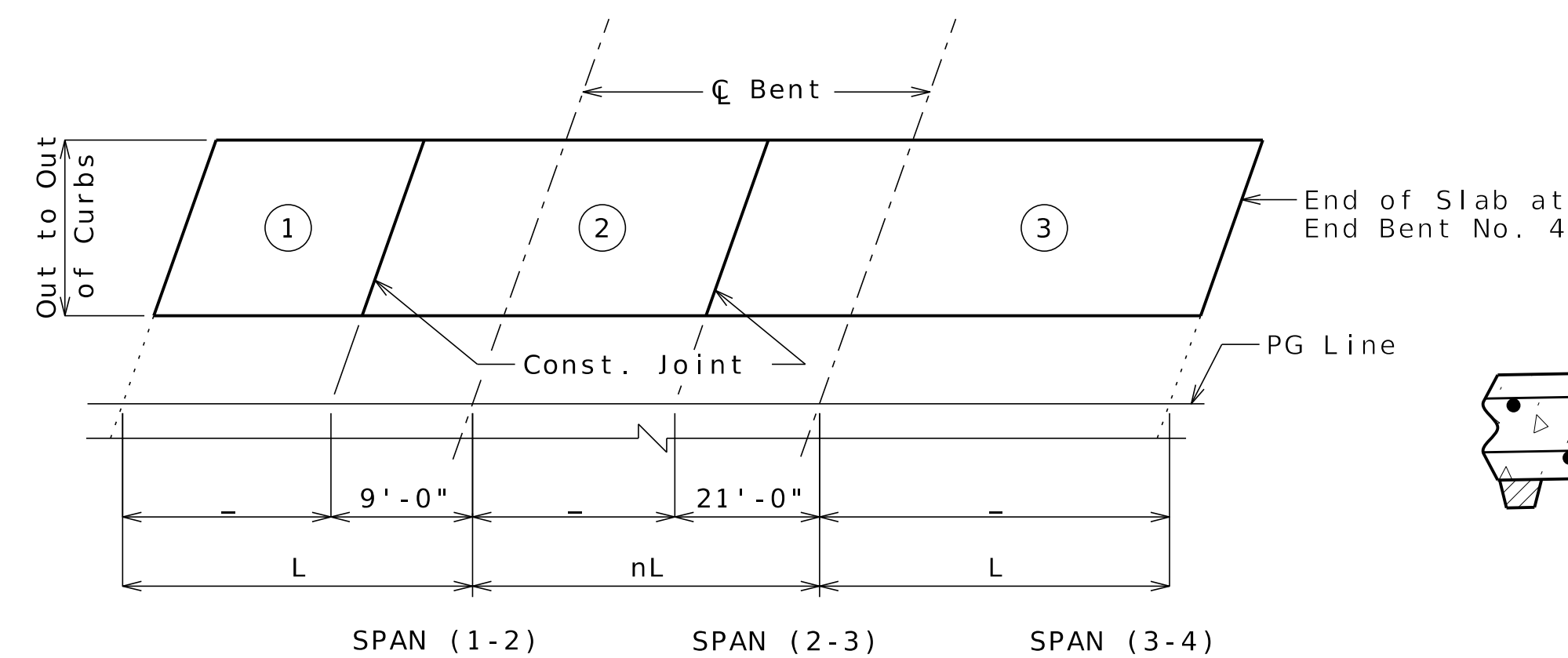
IMPROVE 70
ALLIANCE

HNTB 715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270

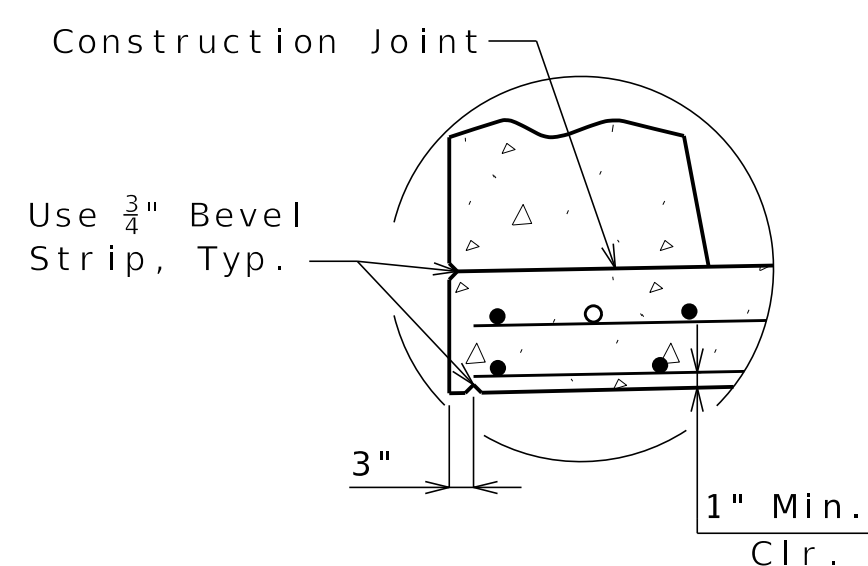
Bartlett & West
601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-633-3181
FAX 573-633-3182
ENGINEERING
CERTIFICATE OF AUTHORITY
NO. 001270



TYPICAL SECTION THRU SLAB
SECTION NEAR INTERMEDIATE BENT

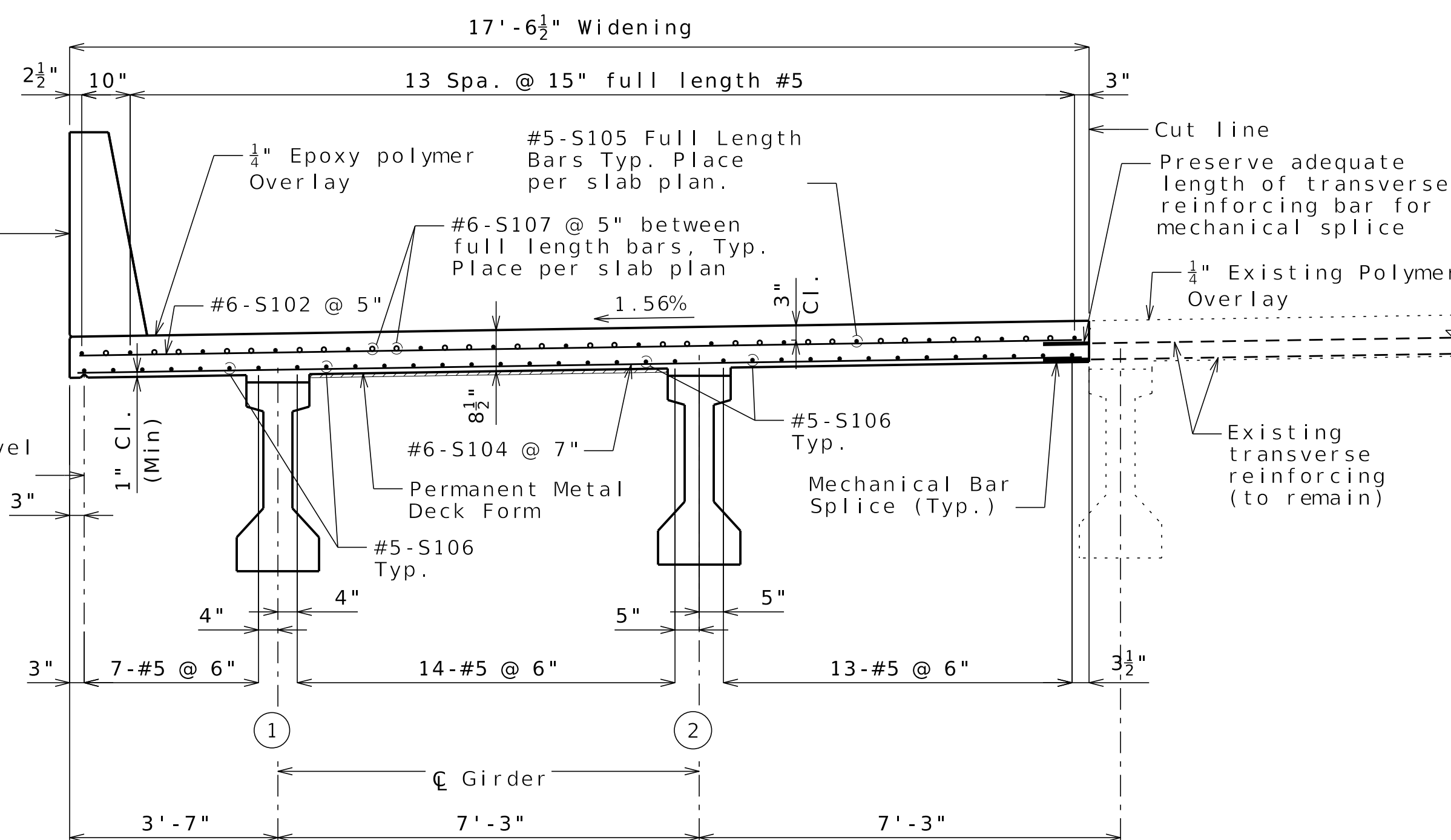


SECTION A-A



DETAIL "A"

Notes: Contractor may shift
bars as necessary to tie
in barrier bars.



TYPICAL SECTION THRU SLAB
SECTION NEAR INTERMEDIATE BENT

Notes:

Safety Barrier Curb reinforcement not shown for clarity.

All slab reinforcement shall be epoxy coated.

Adequate length of existing transverse reinforcement shall be retained for mechanical bar splices. All concrete and pack rust to be removed prior to splicing to new reinforcement.

For Steel Bridge Form notes, see General Notes.

	Sequence of Pours			Min. Rate of Pour Cu. Yds./Hr.
	Direction			With Retarder
Basic Sequence	1	2	3	25
	End to 2	1 to 3	2 to End	
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.				
Alternate A Pours	1 + 2		3	
	End to 5		2 to End	
Alternate B Pours	1 + 2 + 3			25
	End to End			

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours, and shall pour and satisfactorily finish the slab pours at the rate given.

The concrete diaphragm at the Intermediate bents and Integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

Install new diaphragm between proposed girders within Span (2-3). No permanent diaphragm will be installed between proposed and existing girders. Contractor to ensure stability of proposed girders during deck pour.

SLAB POURING SEQUENCE

Detailed
Checked

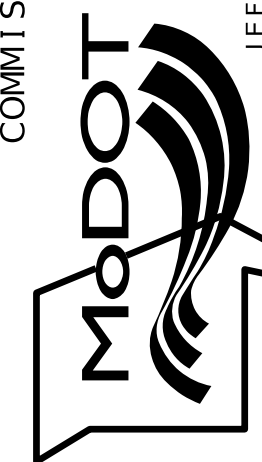
Note: This drawing is not to scale. Follow dimensions.

Sheet 26 of XX

SLAB DETAILS

DATE PREPARED	
4/25/2025	
ROUTE	STATE
I - 70	MO
DISTRICT	SHEET NO.
BR	B01-26
COUNTY	
ST. CHARLES	
JOB NO.	
JST0020	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO. A43232

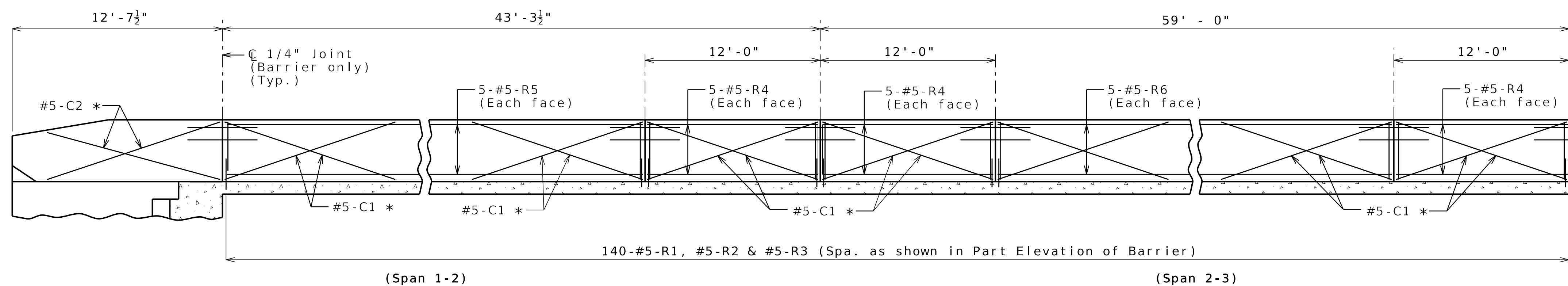
[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

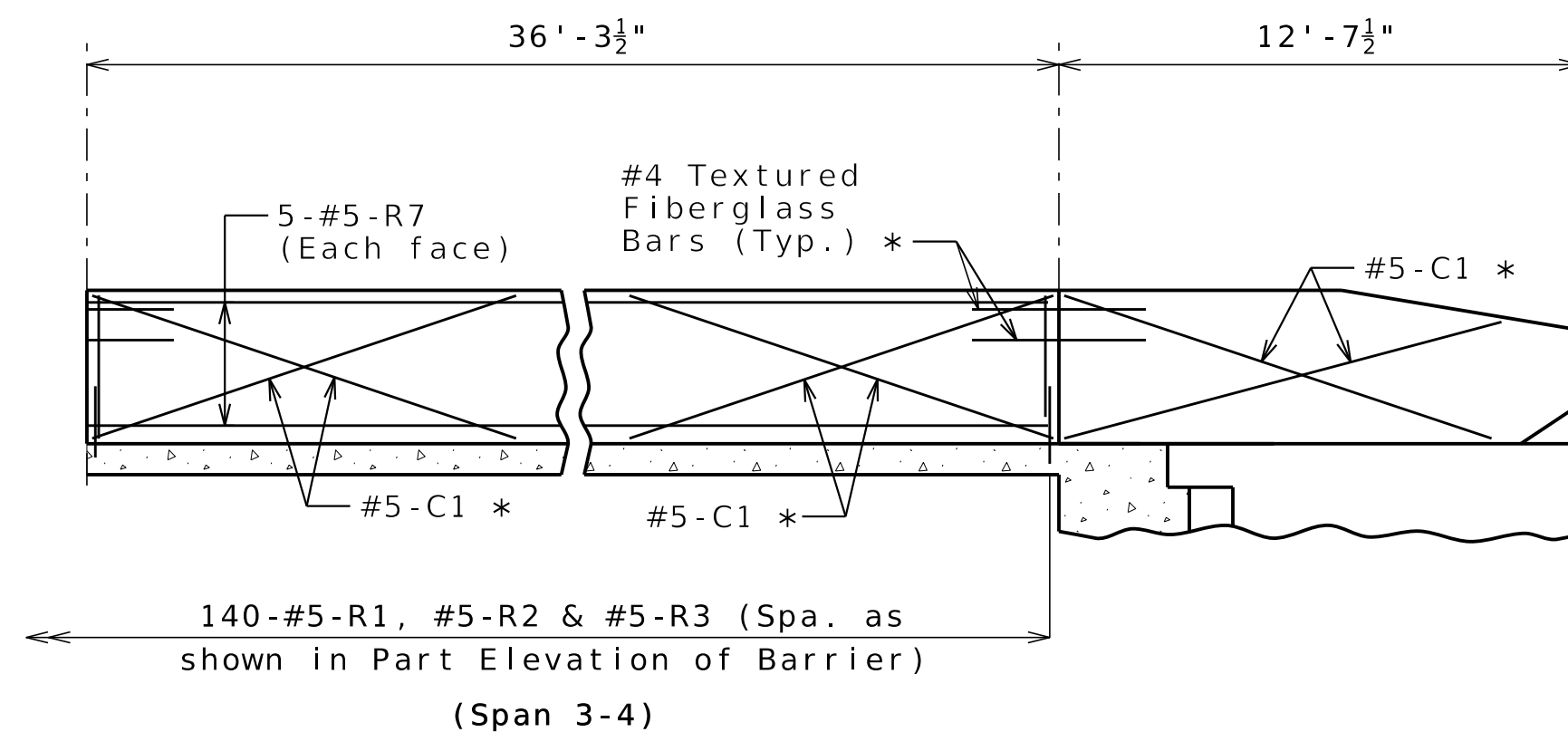


715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY

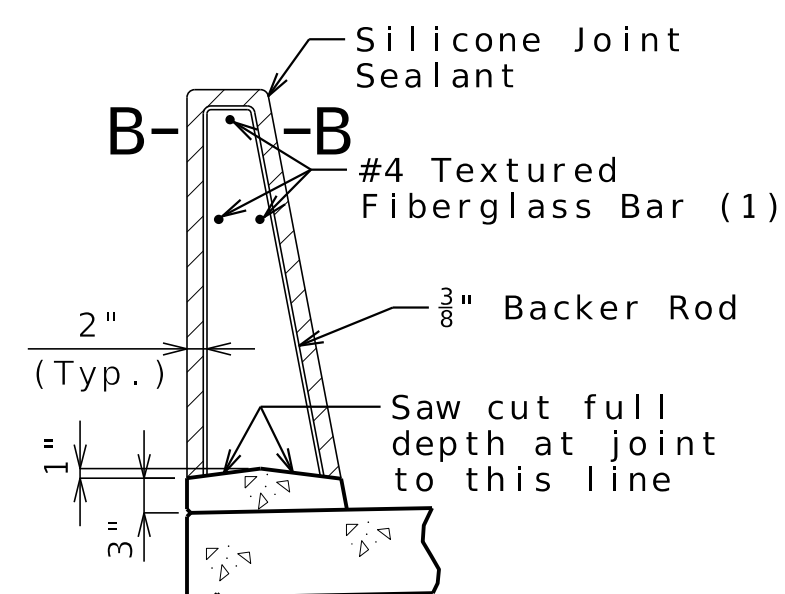
Bartlett & West
601 MONROE ST., SUITE 204 • JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 • ENGINEERING
WWW.BARTLETTWEST.COM



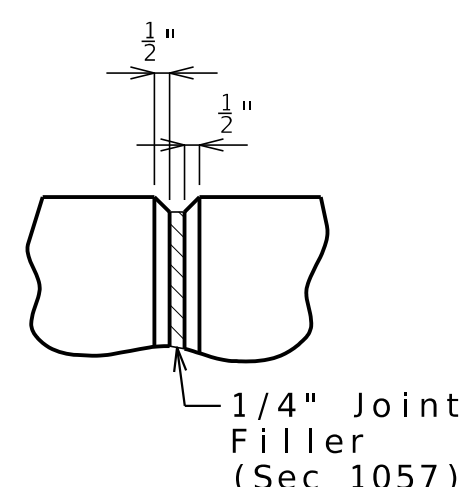
ELEVATION OF BARRIER
Longitudinal dimensions are horizontal.



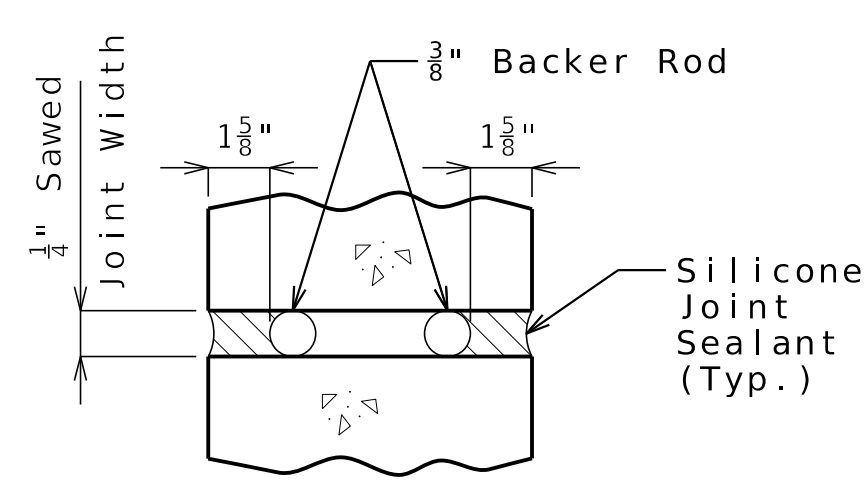
ELEVATION OF BARRIER
Longitudinal dimensions are horizontal.



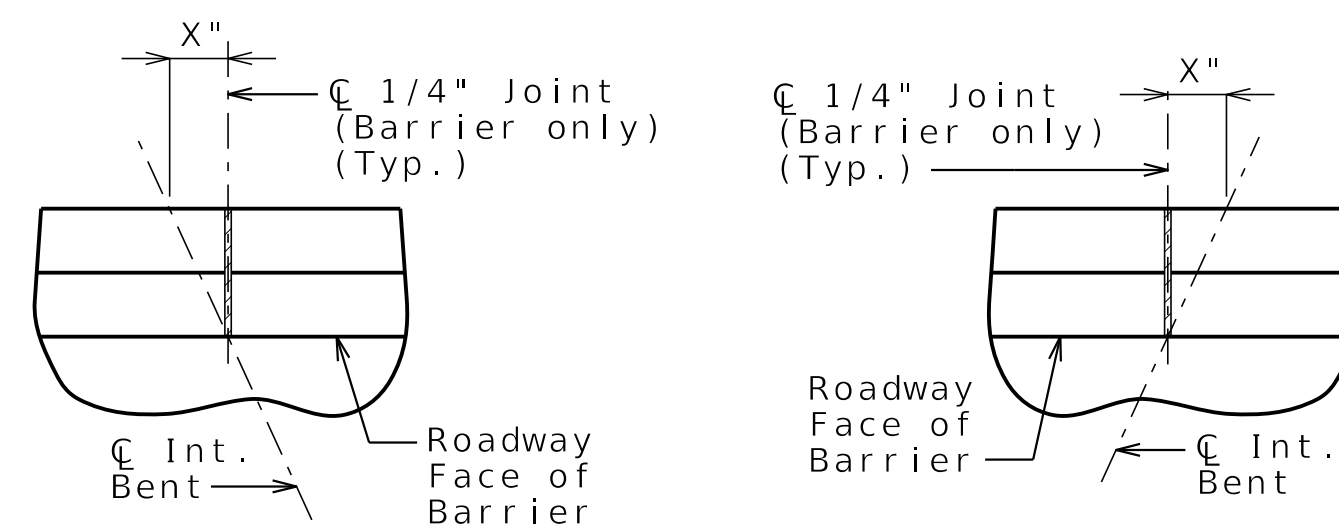
SECTION THRU
SAW CUT JOINT



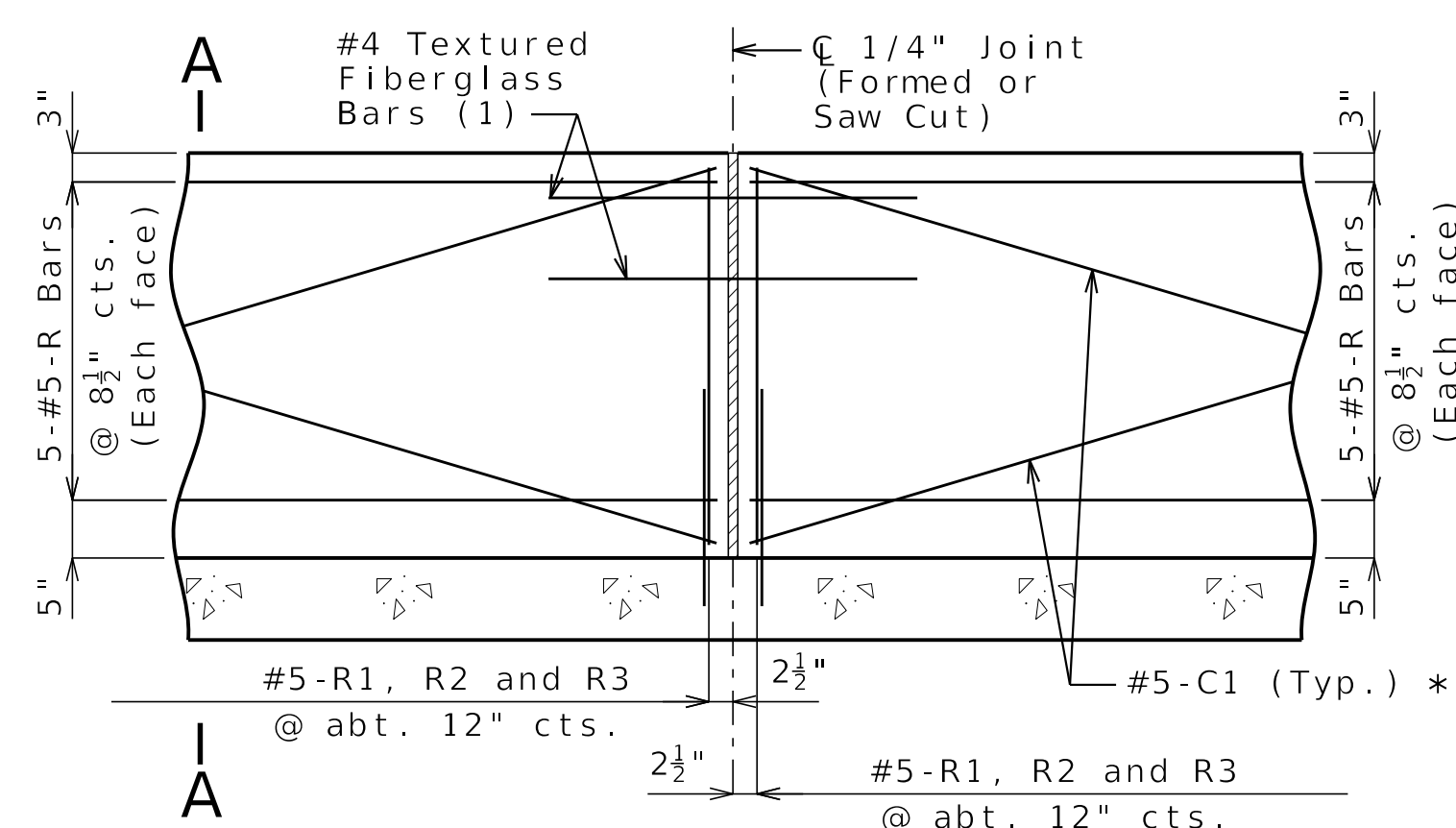
PART ELEVATION
AT FORMED JOINT



SECTION B-B

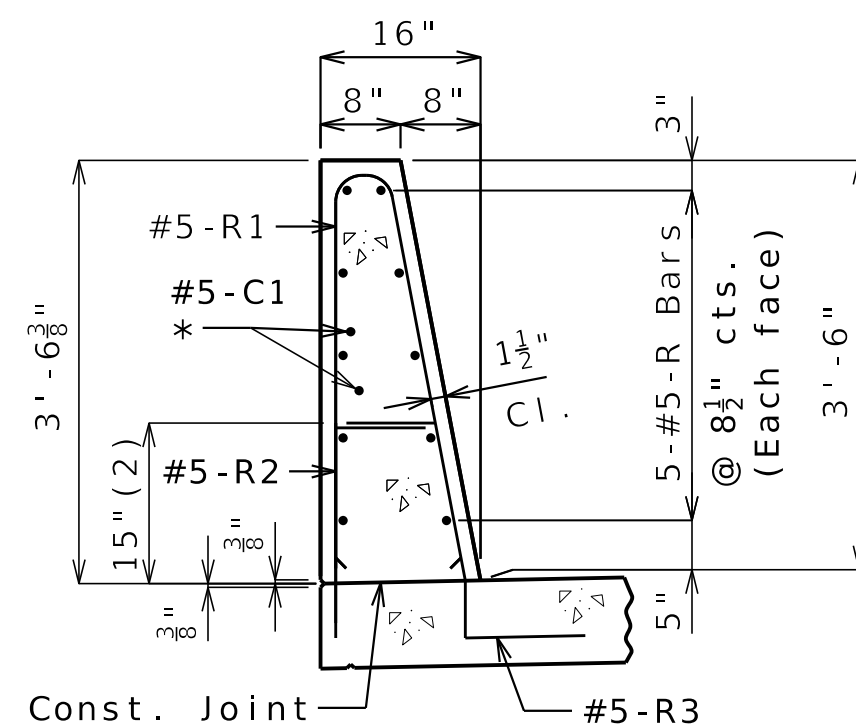


PART PLAN SHOWING JOINT LOCATION
(For skewed structures only)



PART ELEVATION OF BARRIER

- (1) Four feet long, centered on joint,
slip-formed option only

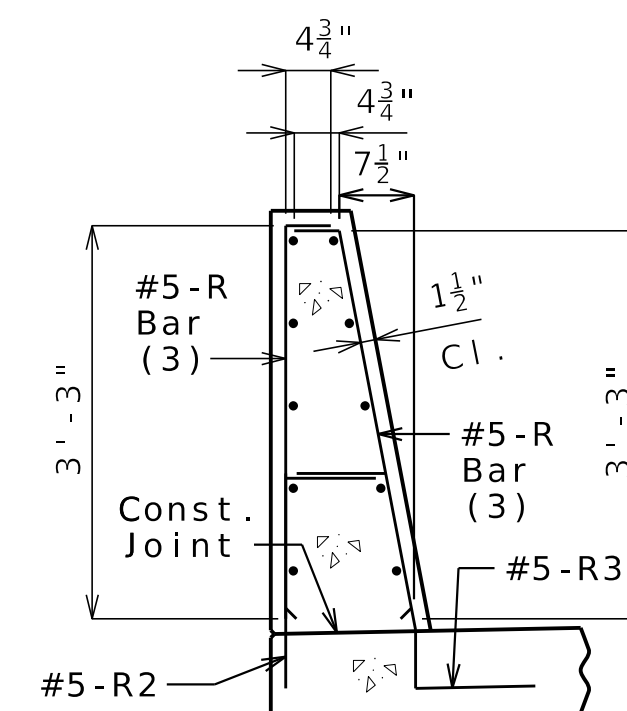


SECTION A-A

Use a minimum lap of 3'-1" for
#5 horizontal barrier bars.

The cross-sectional area above the slab is 3.52 square feet.

- (2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

- (3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

General Notes:

- * Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Concrete in barrier shall be Class B-1.

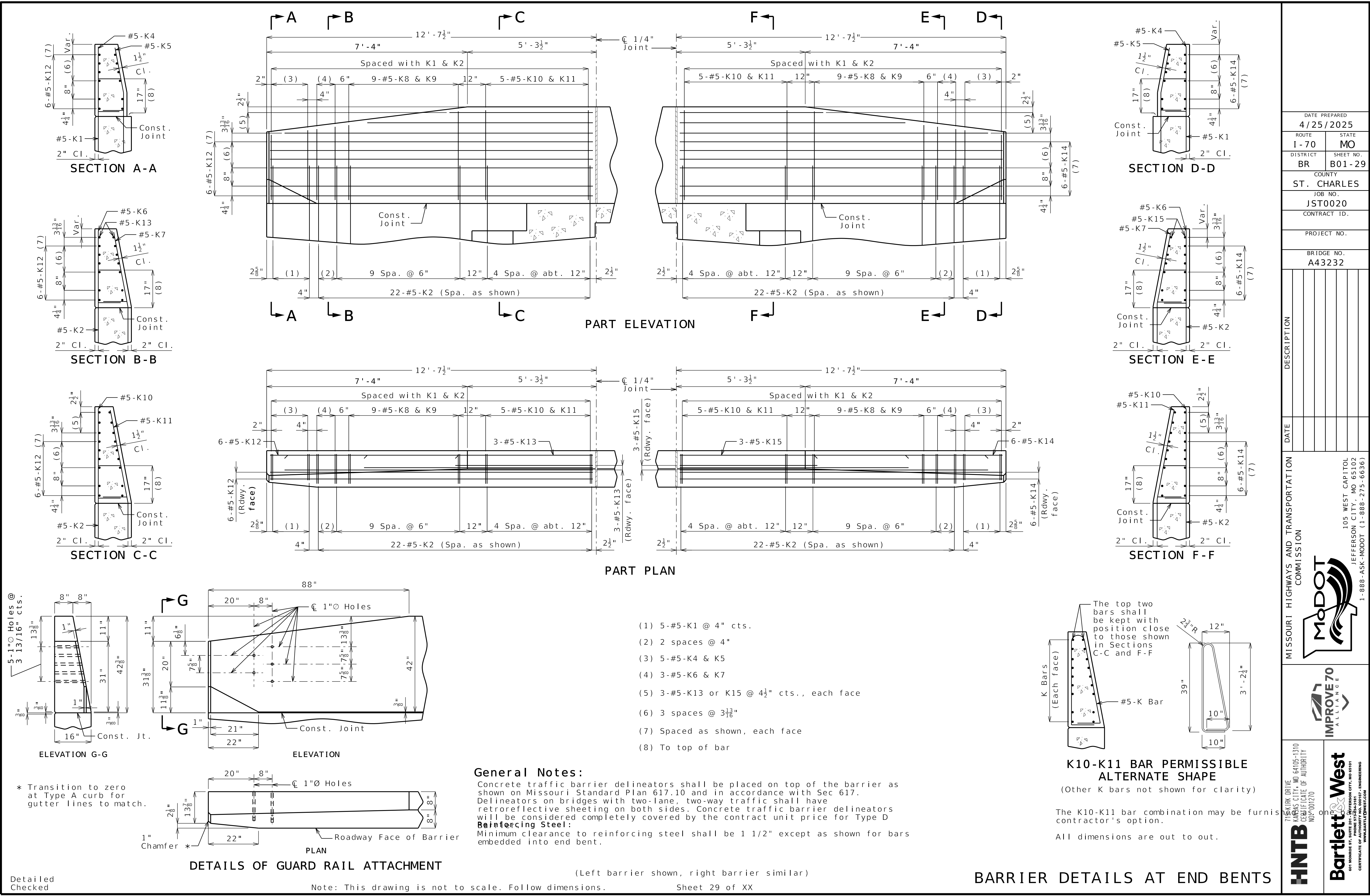
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

Plastic waterstop shall not be used with saw cut joints.

[illegible]



Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

(Left barrier shown, right barrier similar)

Sheet 29 of XX

BARRIER DETAILS AT END BENTS

DATE PREPARED	
4/25/2025	
ROUTE	STATE
1-70	MO
DISTRICT	SHEET NO.
BR	B01-29

COUNTY	
ST. CHARLES	
JOB NO.	
JST0020	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.
A43232

DESCRIPTION

DATE

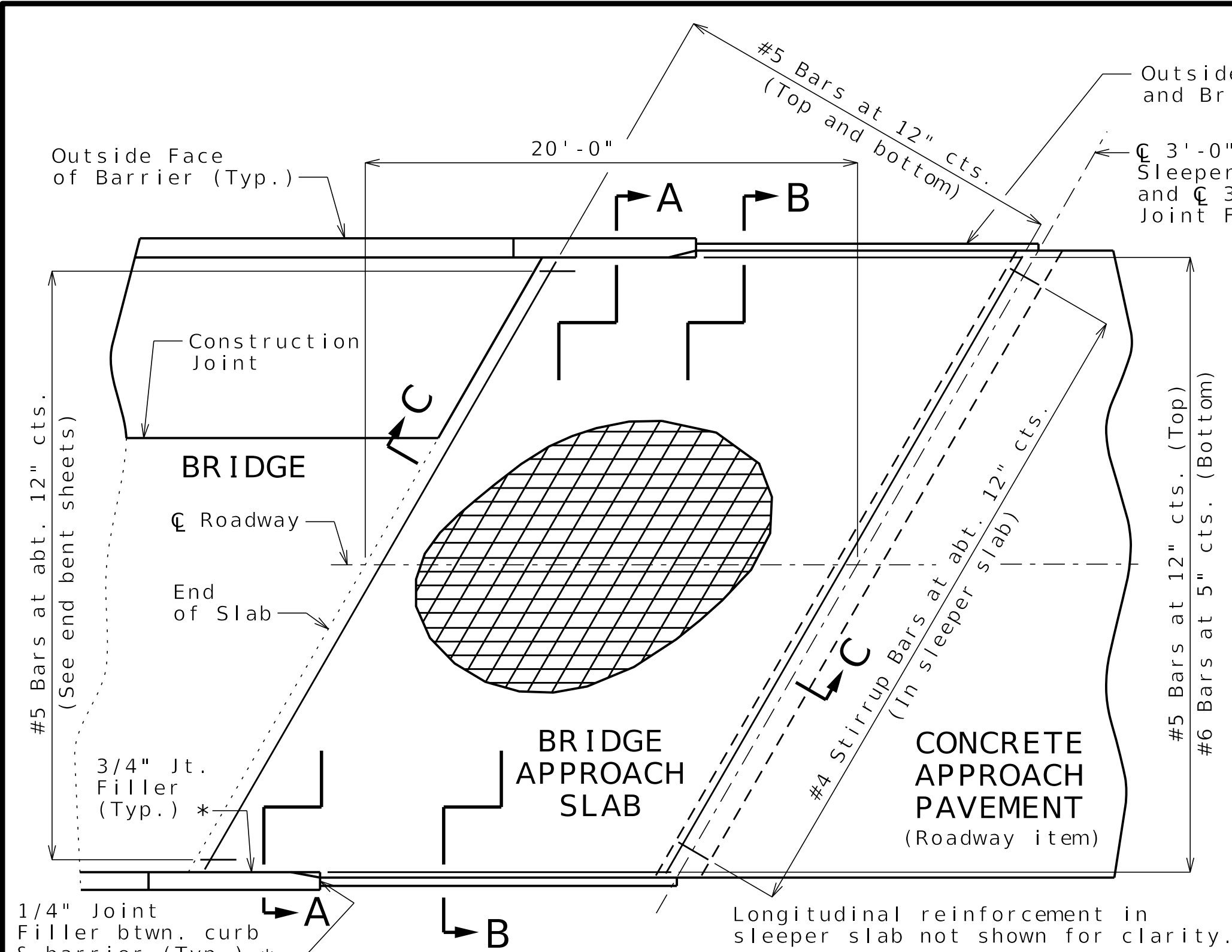


HNTB

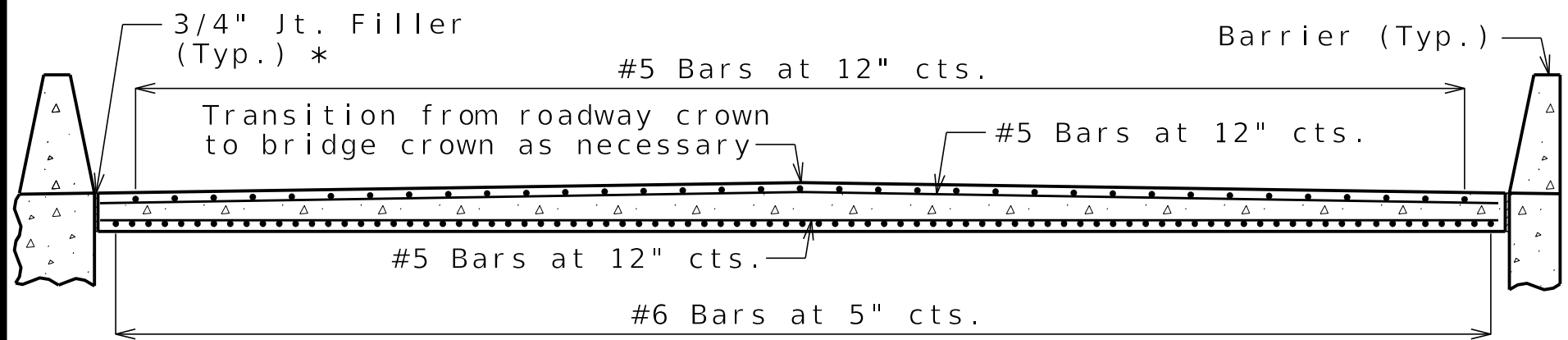
716 KIRK DRIVE
KANSAS CITY, MO 64105-1310
PHONE 877-250-3181
FAX 816-234-7000
WWW.HNTB.COM

Bartlett & West

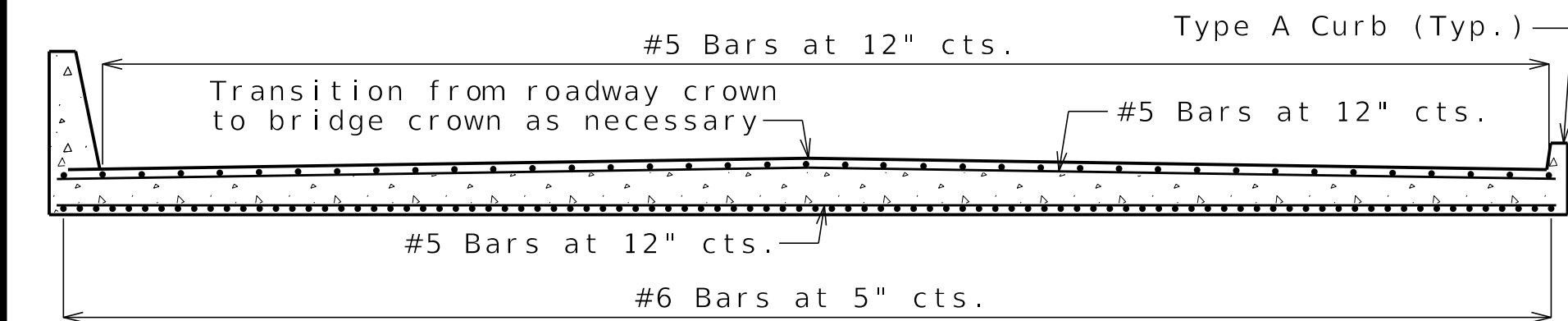
601 MONROE ST., SUITE 201
JEFFERSON CITY, MO 65102
PHONE 573-633-3181
FAX 573-633-3182
WWW.BARTLETTWEST.COM



PART PLAN SHOWING REINFORCEMENT

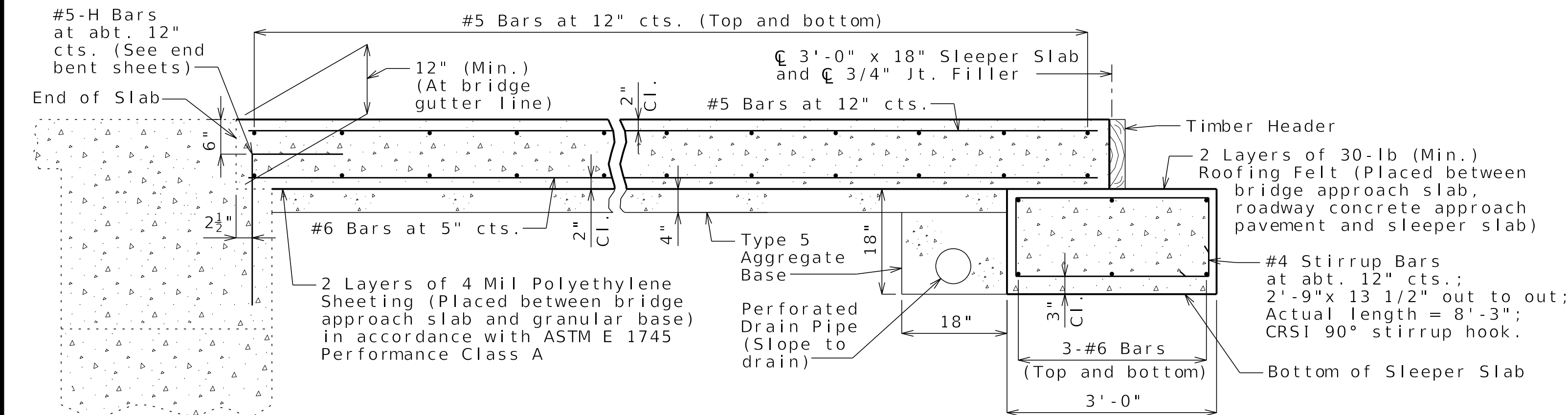


SECTION A-A



SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

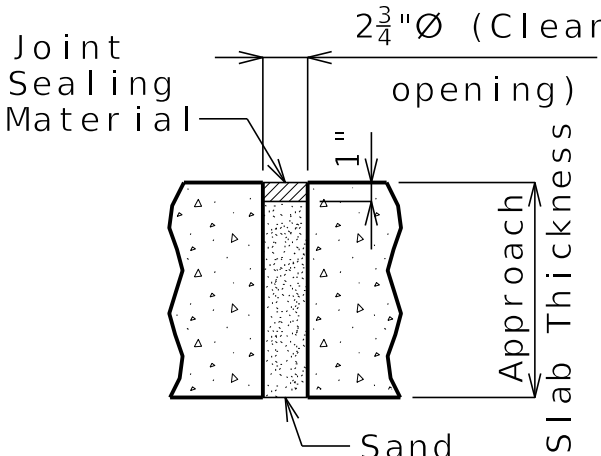


SECTION C-C

Detailed
Checked

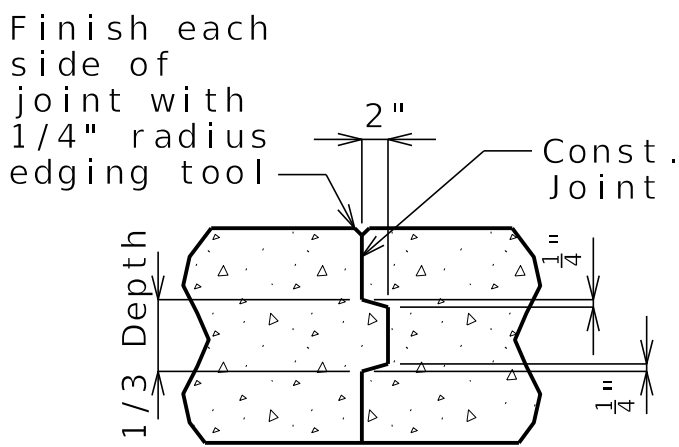
Note: This drawing is not to scale. Follow dimensions.

Sheet 30 of XX

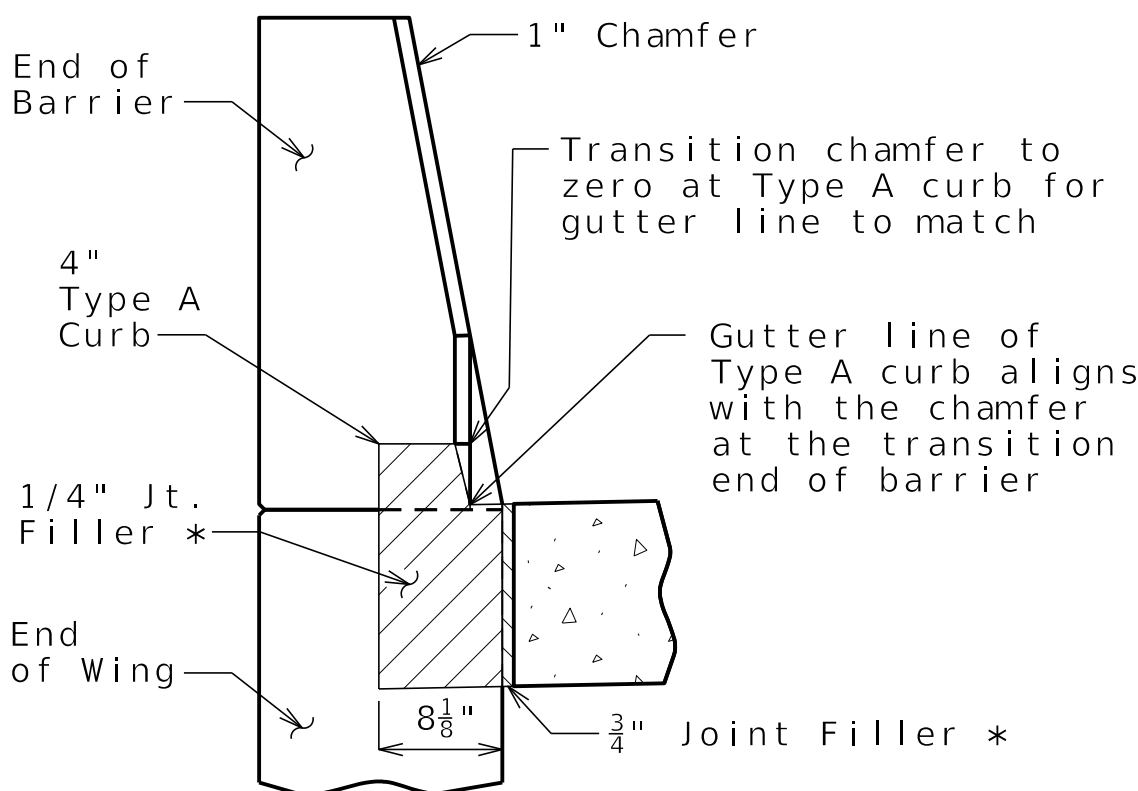


UNDERSEAL ACCESS
HOLE DETAIL

(If required)



CONSTRUCTION
JOINT DETAIL



SECTION BETWEEN
CURB AND BARRIER

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by providing a minimum lap splice of 29 inches for #5 bars and 44 inches for #6 bars, or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

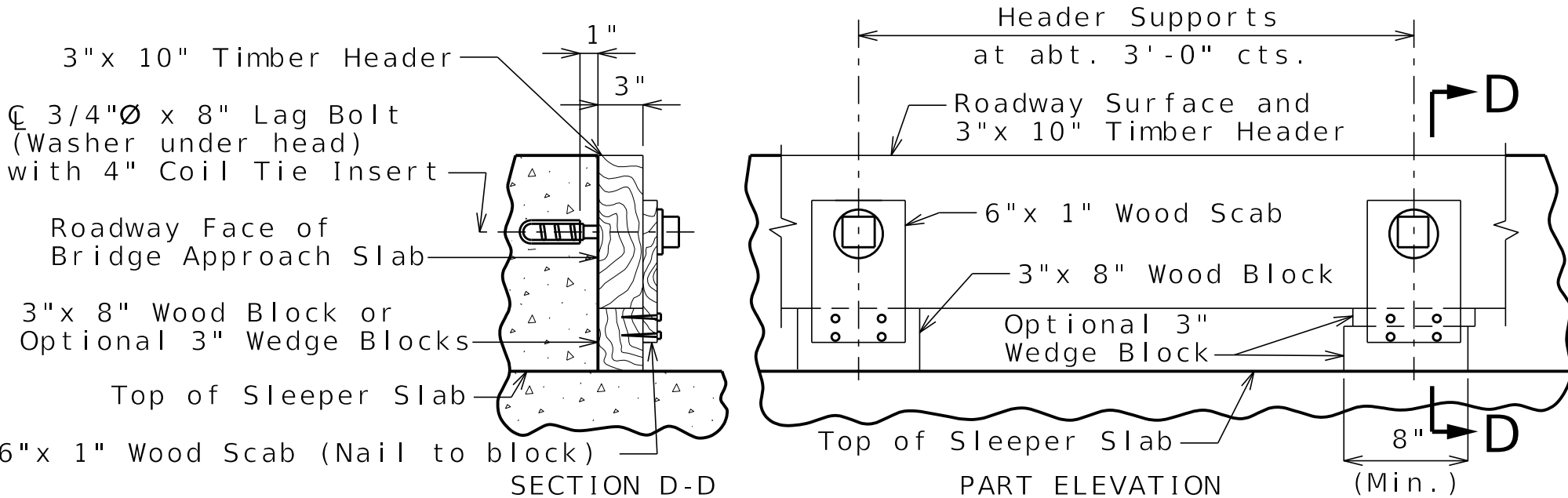
The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.

BRIDGE APPROACH SLAB (MAJOR)

DATE PREPARED 4/25/2025	
ROUTE I-70	STATE MO
DISTRICT BR	SHEET NO. B01-30
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	

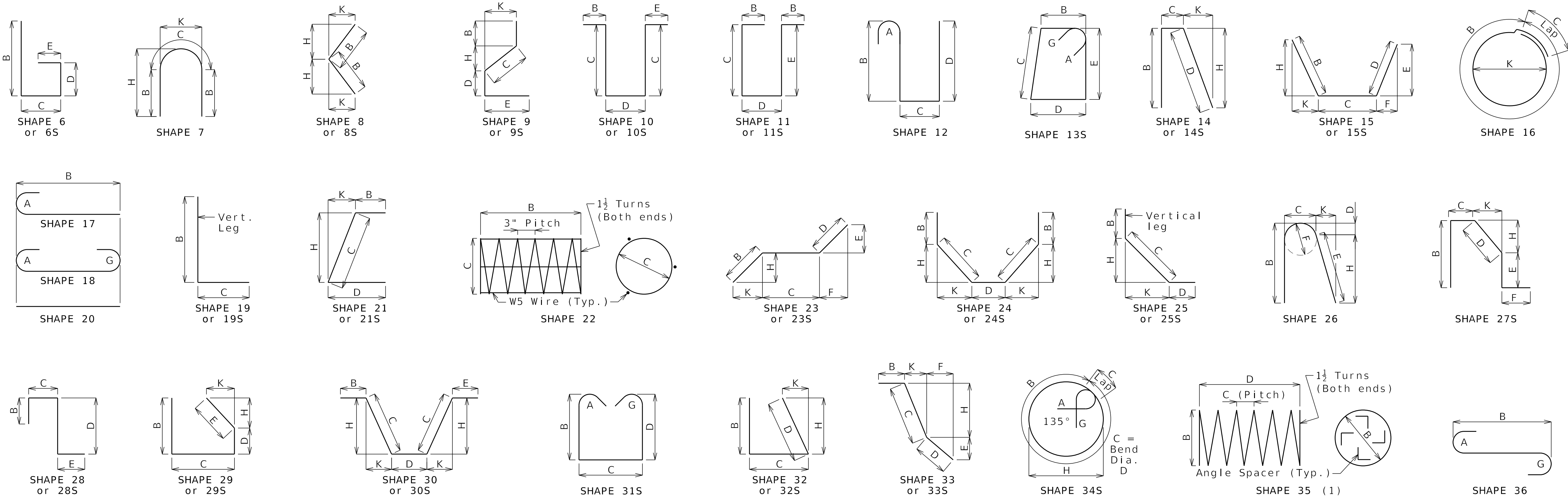
PROJECT NO.	
BRIDGE NO. A43232	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)
--	--



HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105-1310 PHONE 874-3331 FAX 874-3331 WWW.HNTB.COM	Bartlett & West 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 874-3331 FAX 874-3331 WWW.BARTLETTWEST.COM
--	---

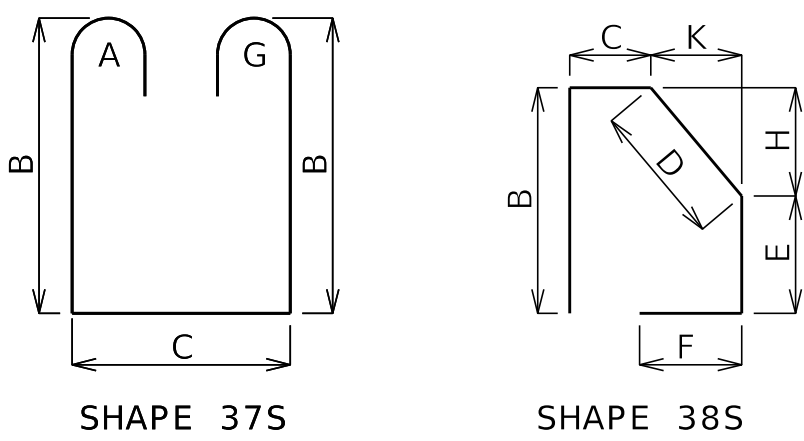


Finished Bend Diameters D and Hook Dimensions						
Standard Pin Bend Shapes						
Size	Case	D	A or G		J	
			90°	180°	180°	
#4	1	3"	8"	6"	4"	
#5	1	3 ³ / ₄ "	10"	7"	5"	
#6	1	4 ¹ / ₂ "	12"	8 ¹ / ₄ "	6"	
#7	2	5 ¹ / ₄ "	14"	9 ³ / ₄ "	7"	
	3	7"	15"	11 ¹ / ₂ "	8 ³ / ₄ "	
#8	2	6"	16"	11"	8"	
	3	8"	17"	13 ¹ / ₄ "	10"	
#9	1	9 ¹ / ₂ "	19 ¹ / ₂ "	15 ¹ / ₂ "	11 ³ / ₄ "	
#10	1	10 ³ / ₄ "	22"	17 ¹ / ₂ "	13 ¹ / ₄ "	
#11	1	12"	24 ¹ / ₂ "	19 ¹ / ₂ "	14 ⁷ / ₈ "	
#14	1	18 ¹ / ₄ "	31 ¹ / ₄ "	27 ¹ / ₂ "	21 ⁵ / ₈ "	
#18	1	24"	41 ¹ / ₂ "	36 ¹ / ₄ "	28 ¹ / ₂ "	

Stirrup Pin Bend Shapes (S)						
Size	Case	D	A or G		H	J
			90°	135°	180°	
#4	2	2"	4 ¹ / ₂ "	4 ¹ / ₂ "	5"	2 ⁷ / ₈ "
	3	3"	5"	5 ¹ / ₄ "	6"	3"
#5	2	2 ¹ / ₂ "	5 ³ / ₄ "	5 ³ / ₄ "	5 ³ / ₄ "	3 ⁵ / ₈ "
	3	3 ³ / ₄ "	6 ¹ / ₄ "	6 ¹ / ₄ "	7"	3 ³ / ₄ "
#6	1	4 ¹ / ₂ "	12"	7 ³ / ₄ "	8 ¹ / ₄ "	4 ⁵ / ₈ "

Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



BENDING DIAGRAMS

All dimensions are out to out. (1) Shall be a deformed or plain spiral bar or wire.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes. Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

Reinforcing Steel Totals (Pounds)								
Size	Substructure		Superstructure				Entire Bridge	
	Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
W5	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
By Type	0	0	0	0	0	0	0	0

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

DATE PREPARED
4/25/2025

ROUTE
I - 70

DISTRICT
BR

COUNTY
ST. CHARLES

JOB NO.
JST0020

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A43232

STATE
MO

SHEET NO.
B01-31

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
PHONE 873-430-3181
FAX 873-430-3181
WWW.HNTB.COM

601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 873-430-3181
FAX 873-430-3181
WWW.BARTLETTWEST.COM

CERTIFICATE OF AUTHORITY
NO. 001270

[illegible]

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

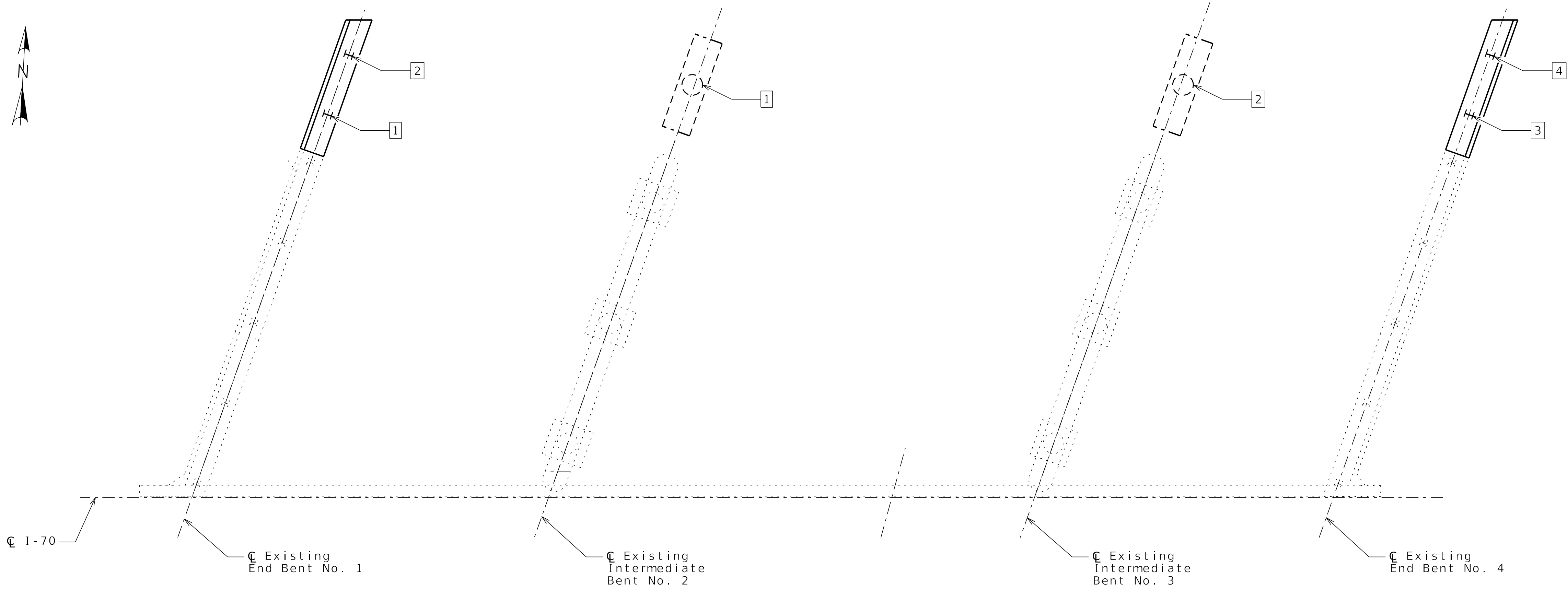
For bending diagrams and steel reinforcing totals, see Sheet No. .

Detailed
Checked

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.
SH = Required shape, see bending diagrams.
V = Sets of varied bars and number of bars of each length. Bar
dimensions vary in equal increments between dimensions shown on this
line and the following line and the actual length dimension shown on
this line and the following line vary by the specified increment.

All bars shall be Grade 60.

[illegible][illegible]



PART PLAN SHOWING PILE AND DRILLED SHAFT NUMBERING FOR RECORDING AS-BUILT PILE DATA AND AS-BUILT SHAFT DATA

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No.1
1			
2			
			End Bent No.4
3			
4			

As-Built Drilled Shaft Data				
Shaft No.	Top of Sound Rock (Elev.)	Tip of Casing (Elev.)	Bottom of Rock Socket (Elev.)	Remarks
				Intermediate Bent No.2
1				
				Intermediate Bent No.3
2				

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal

This sheet to be completed by the design-builder.

AS-BUILT PILE AND DRILLED SHAFT DATA

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet 35 of XX

DATE PREPARED
4/25/2025

ROUTE
1 - 70

DISTRICT
BR

COUNTY
ST. CHARLES

JOB NO.
JST0020

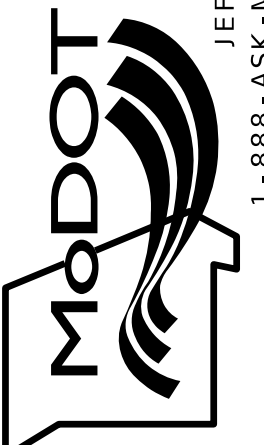
CONTRACT ID.

PROJECT NO.


BRIDGE NO.
A43232


DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





715 KIRK DRIVE
KANSAS CITY, MO 64105-1310
CERTIFICATE OF AUTHORITY
NO. 001270



601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 572-630-3181
FAX 572-630-3181
WWW.BARTLETTWEST.COM

Standard Drawing Guidance:
(Do not show on plans)

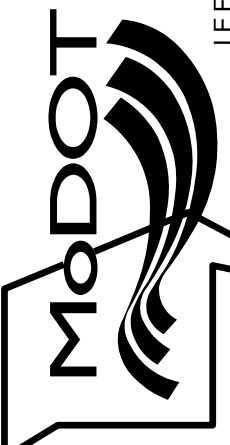


See Instructions & Tips, MicroStation & Projectwise, AttachBoringPDFsToBridgePlans on Development Section Sharepoint page for instructions for attaching PDFs as rasters.

For one 11x17 Geotechnical Data sheet, snap to top left corner of left guidance box and snap anywhere for other corner, filling as much of the available space as possible. Delete boxes or turn off Bridge-Guidance level.

Detailed
Checked

Note: For locations of borings, see Sheet No. 2.
Note: This drawing is not to scale. Follow dimensions.
Sheet 36 of XX

BORING DATA (1 OF XX)

DATE PREPARED 4/25/2025	
ROUTE 1 - 70	STATE MO
DISTRICT BR	SHEET NO. B01 - 36
COUNTY ST. CHARLES	
JOB NO. JST0020	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A43232	
DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	
715 KIRK DRIVE KANSAS CITY, MO 64105-1310 CERTIFICATE OF AUTHORITY NO. 001270	
 Bartlett & West 601 MONROE ST., SUITE 201 - JEFFERSON CITY, MO 65101 PHONE 572-630-3181 FAX 572-630-3181 WWW.BARTLETTWEST.COM	