

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

BRIDGE REPAIR PLANS FOR:

JEFFERSON COUNTY

056B00136N – CLARK MEMORIAL BRIDGE

US-31E OVER RIVER ROAD, I-64, OHIO RIVER

ESTIMATE OF QUANTITIES																				
BID ITEM CODE	01984	02003	02562	02568	02569	02650	02653	02671	02775	02898	03171	03298	06549	06550	06551	20738NS112	23386EC	24879EC	24879EC	24879EC
BID ITEM	DELINEATOR FOR BARRIER – WHITE	RELOCATE TEMP CONC BARRIER	TEMPORARY SIGNS	MOBILIZATION	DEMOBILIZATION	MAINTAIN AND CONTROL TRAFFIC	LANE CLOSURE	PORTABLE CHANGEABLE MESSAGE SIGN	ARROW PANEL	RELOCATE CRASH CUSION	CONCRETE BARRIER WALL TYPE 9T	EXPAN JOINT REPLACE – 4 IN	PAVE STRIPING – TEMP REM TAPE – B	PAVE STRIPING – TEMP REM TAPE – W	PAVE STRIPING – TEMP REM TAPE – Y	TEMP CRASH CUSHION	JOINT SEAL REPLACEMENT	STEEL REPAIR (SADDLE BEARING REPAIR)	STEEL REPAIR (SIDEWALK FLOORBEAM CONNECTION REPLACEMENT)	STEEL REPAIR (GIRDER INTERMEDIATE STIFFENER REPAIR)
UNIT	EACH	L.F.	S.F.	L.S.	L.S.	L.S.	EACH	EACH	EACH	EACH	L.F.	L.F.	L.F.	L.F.	L.F.	EACH	L.F.	EACH	EACH	EACH
BRIDGE TOTALS	241	1040	350	1	1	1	3	2	2	2	4820	38	16825	14744	13692	4	492	1	58	48



US-31E OVER OHIO RIVER

PROPOSED WORK: US-31E
BRIDGE REPAIR PLANS

056B00136N CLARK
MEMORIAL BRIDGE

LOUISVILLE, KY



JEFFERSONVILLE, IN

OHIO RIVER

INDEX OF SHEETS

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SPECIAL NOTES

Special Note for Contract Completion Date and Liquidated Damages on Bridge Repair Contracts
Special Note for Girder Repair
Special Note for Saddle Bearing Repair
Special Note for SW Floorbeam Connection Repair
Special Note for Painting Structural Steel Repairs
Special Note for Bridge Joint Replacement
Special Note for Bridge Joint Seal Replacement
Special Note for Traffic Control
Special Note for Expediting Project Work Order

SPECIAL PROVISIONS

STANDARD DRAWINGS

RBM-020-09	Delineators for Concrete Barriers
RBM-115-10	Concrete Barrier Wall Type 9T (Temporary)
TTC-115-04	Lane Closure Multi-Lane Highway Case I
TTC-160-02	Temporary Pavement Marker Arrangements for Lane Closures

SPECIFICATIONS

2019 Standard Specifications for Road and Bridge Construction
9th Edition AASHTO LRFD Bridge Design Specifications (2020)



BY Scott Ribble
DATE January 24th, 2026



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: D. Richardson	L. Bridwell
DETAILED BY: D. Richardson	S. Ribble

TITLE SHEET

CROSSING
Ohio River

ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M1

COUNTY OF
JEFFERSON
DRAWING NUMBER
29060

SPECIFICATION NOTES

SPECIFICATIONS: References to the specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, including any current supplemental specifications. All references to the AASHTO Specifications are to the 9th Edition-2020 of the AASHTO LRFD Bridge Design Specifications.

MATERIAL SPECIFICATION NOTES

MATERIALS: ASTM or AASHTO Specifications, current edition, as designated in the Special Notes and plan notes shall govern the materials furnished.

BONDING TO EXISTING CONCRETE USING STRUCTURAL ADHESIVES: Bond proposed plastic concrete to existing hardened concrete in all locations using a Type V Epoxy Resin or other approved Structural Adhesive as prescribed in Section 826 of the Specifications. Follow the manufacturer's recommended application instructions. This work and material is incidental to the unit price bid for the most applicable bid item.

REINFORCEMENT: Dimensions shown from the face of the concrete to bars are clear distances unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to the face of concrete is 2", unless otherwise noted. Bars designated with the suffix (E) shall be epoxy coated in accordance with Section 811.10 of the Standard Specifications. The cost for furnishing and installing reinforcement shall be incidental to the unit price bid for the most applicable bid item.

ABBREVIATIONS

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

- Abut. = Abutment
- Ave. = Avenue
- c/c = Center to center
- Conn. = Connection
- Dia. = Diameter
- Diaph. = Diaphragm
- DS = Downstream
- EB = Eastbound
- Ex. = Existing
- FB = Floorbeam
- L.F. = Linear feet
- L.S. = Lump sum
- Min. = Minimum
- Max. = Maximum
- NB = Northbound
- no. = Number
- Pl. = Plate
- St. = Street
- S.F. = Square feet
- SB = Southbound
- Spa. = Spaces
- Std. = Standard
- SW = Sidewalk
- Typ. = Typical
- US = Upstream
- WB = Westbound

GENERAL SPECIFICATION NOTES

ON SITE INSPECTION: Each contractor submitting a bid for this work shall make a thorough inspection of the bridge and the work site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can be expeditiously performed after a contract is awarded. A suitable method of performing the work described herein should be investigated. Submission of a bid will be considered evidence of this inspection having been made. Any claims from site conditions will not be honored by the Department of Highways.

INCIDENTAL ITEMS: The Contractor is required to complete the structure in accordance with the plans and specifications. Material or labor not otherwise specified are to be considered incidental to the contract.

COMPLETION OF THE STRUCTURE: The Contractor is required to complete the construction 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 but not be limited to incidental materials, disposal of waste off the right-of-way, incidental labor, or anything else that may be required to complete the construction.

BRIDGE PLANS: A copy of the available existing bridge plans (Drawing Numbers 9041, 13222, 17000, 21922, 22689, 23147, 25560, 26596, and 26865), will be made available to the successful bidder upon his written request to the Division of Structural Design. The completeness of these drawings is not guaranteed, and no responsibility is assumed by the Department of Highways for their accuracy.

FIELD VERIFICATION: The Contractor shall verify elevations and dimensions, including thickness of components, cross slopes, and crown details with field measurement prior to ordering materials or fabricating steelwork. Any discrepancies shall be brought to the attention of the Engineer. New material that is unsuitable because of variations in the existing structure shall be replaced at the Contractor's expense.

DAMAGE TO THE STRUCTURE: The Contractor is responsible for any and all damage to the existing structure during the construction should damage result from the Contractor's actions. After the completion of construction, the structure and site shall receive a final cleaning up. The Contractor shall clear the right-of-way and all ground the Contractor occupies in connection with the work of all rubbish, equipment, and excess materials. Place rubbish and all waste of whatever nature, other than hazardous materials, on either public or private property in a location out of the view from the roadway and in a manner to the Department that does not present an unsightly appearance. Restore in an acceptable manner all property, both public and private, that was damaged in the prosecution of the work.

DIMENSIONS: Dimensions shown on these plans are taken from the drawings listed under "Bridge Plans" above and do not necessarily reflect revisions made during construction. All plan dimensions are for a normal temperature of 60°F. Layout dimensions are horizontal dimensions. Deck width is measured at the top of the concrete deck.

SHOP DRAWINGS: The Contractor is to submit detailed shop drawings and material specifications for any details or materials that vary from these plans to the Department for approval in accordance with Section 607.03.01 of the Standard Specifications. When any changes are proposed by the fabricator or supplier, the shop drawings reflecting these changes shall be submitted to the Department through the Contractor.

MAINTAINING TRAFFIC: Traffic shall be maintained at all times in accordance with the Special Note for Traffic Control, these drawings, and the Standard Drawings.

UTILITY AND SIGNAGE PROTECTION: Any traffic and decorative lighting, signage, and active utility ducts and electrical conduit shall be adequately protected. Any damage to signage and utilities caused by the Contractor shall be repaired at the Contractor's expense.

REMOVED MATERIALS: All existing steel that is to be removed shall not be reused on the structure unless otherwise noted in the plans. The Contractor is to ensure that the remaining steel is not damaged during removal. All material removed shall become the property of the Contractor and shall be removed from the bridge site.

CONSTRUCTION SEQUENCE: The Contractor shall follow the construction and phasing sequences detailed in the plans and Special Notes. The Contractor may propose alternate construction sequences to the Engineer for approval no later than three working days prior to the start of work on a given work item.

SUPERSTRUCTURE NOTES

REMOVAL OF EXISTING CONCRETE: This work shall include removal of the reinforced concrete deck and curb adjacent to the joint being replaced or as directed by the Engineer and disposal of this material away from the bridge site. Any damage to the remaining existing structure resulting from the Contractor's operation shall be repaired by the Contractor to the satisfaction of the Engineer at no cost to the Department. Existing concrete shall be removed to the limits shown by drilling, chipping, or other methods approved by the Engineer. The concrete shall be removed without allowing broken concrete to drop into the river or on to unprotected areas below the structure. The Contractor shall be responsible for any damage caused by falling concrete. The perimeter of portions of the structure to be removed that will be adjacent to new concrete shall be saw cut to a depth as shown on the plans before removal begins. The surfaces presented as a result of this removal shall be reasonably true and even with sharp, straight corners that will permit constructing a neat and workmanlike joint with the new construction. Where existing bars are to extend from the remaining concrete into new concrete, the concrete shall be removed so as to leave the projecting bars clean and undamaged. Where projecting bars are not to extend into new concrete, they shall be cut off flush with the surface to which concrete has been removed. The cost of this work shall be incidental to the unit price bid for Expan Joint Replace - 4 In. or Steel Repair (Sidewalk Floorbeam Connection Replacement), as applicable.

CLEANING EXISTING STEEL: All areas of existing steel that are to be in contact with new steel shall be cleaned of all dirt, rust, paint, and other foreign matter before installing the new steel. The cost of this cleaning is to be incidental to the unit price bid for the most appropriate bid item.

PROHIBITED FIELD WELDING: Except as noted in these plans and in the Special Notes, no welding of any nature shall be performed on the load carrying members of the bridge without the written consent of the Director, Division of Structural Design, and then only in the manner and at the locations designated in the authorization.

WELDING: No welding shall be permitted without written permission of the Engineer. All welding shall conform to Section 607.03.07 of the current Standard Specifications for Road and Bridge Construction. Modifications and additions as stated in the plans and Special Notes shall supersede the AASHTO/AWS Specifications. Welding procedures shall be submitted to the Engineer and approved prior to the start of fabrication and repairs. Work shall be completed by an AWS certified welder. The cost of the welding and welding materials is to be incidental to the unit price bid for the most appropriate bid items.

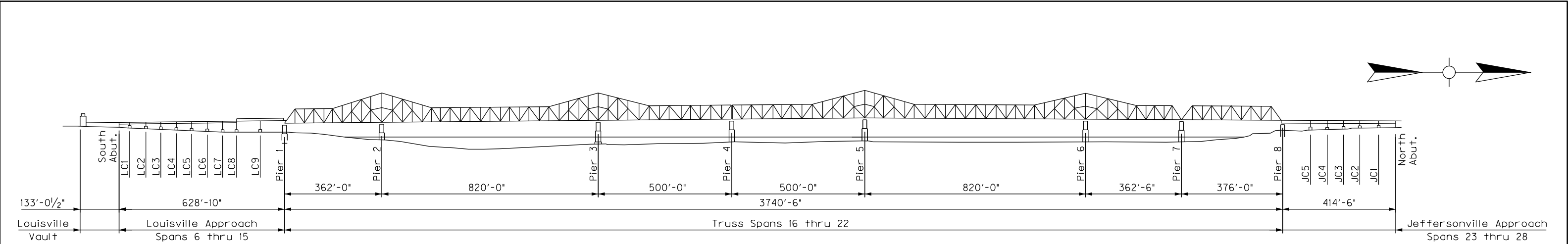
MILL TEST REPORTS: Notarized test reports shall be furnished in triplicate to the Department showing that all the materials used for their repairs conform to the requirements of the plans and specifications.

PAINT: See the Special Note for Painting Structural Steel Repairs.

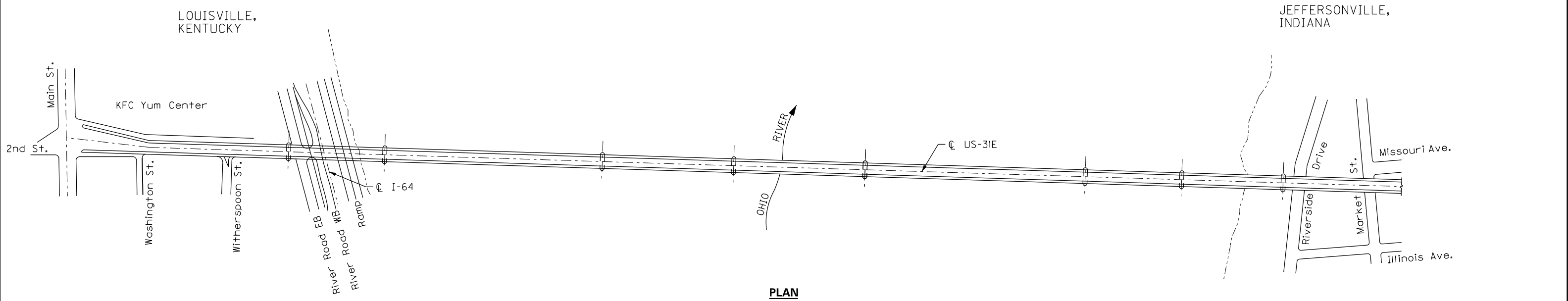
RESIDUAL LEAD: Residual lead paint may still be on the structure. The Contractor is advised to take all necessary protective measures including worker safety and environmental regulations when performing all work specified in the contract. The Department will not consider any claims based on residual lead paint.

TOUCH-UP PAINTING: All areas of new or existing structural steel on which the paint has been damaged by the Contractor with weld burns or by other means during construction shall be touched up per the procedures listed for painting in the Special Notes. The cost for this work shall be incidental to the unit price bid for the most applicable bid items.

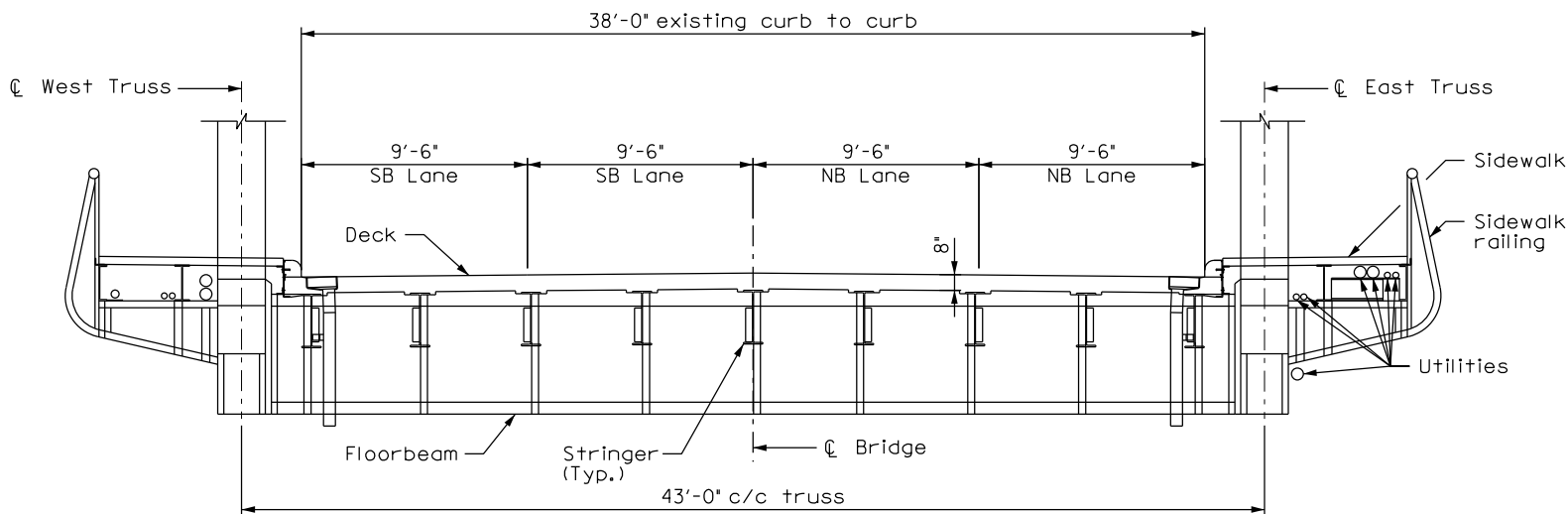
PAYMENT FOR STRUCTURAL STEEL REPAIRS: The unit price bid for all structural steel repair bid items listed in the estimate of quantities shall be full compensation for all access, removal, drilling, reaming, cutting, welding, removing deteriorated metal, and all new materials, labor, equipment, tools, and incidentals necessary to complete each item of work.



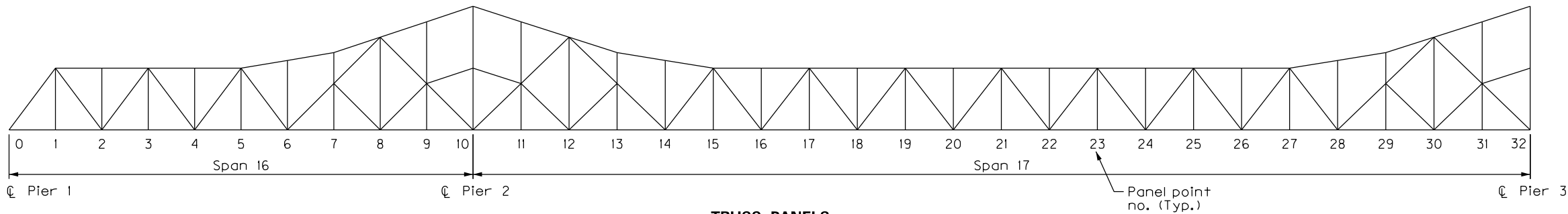
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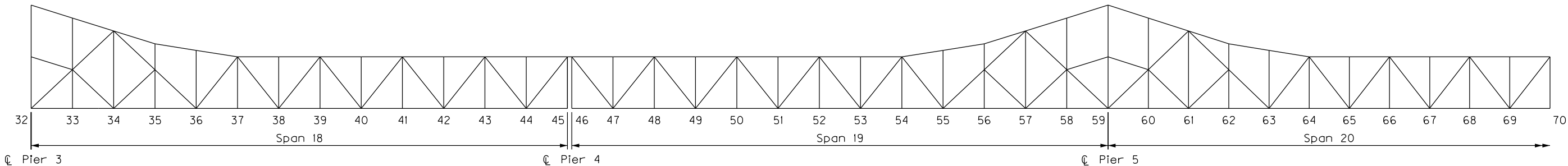
PLAN



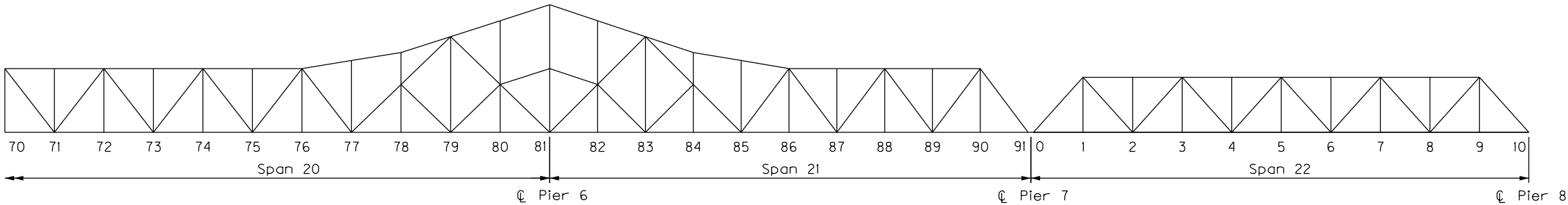
TYPICAL SECTION (TRUSS SPANS SHOWN)
(Shear connectors not shown for clarity)



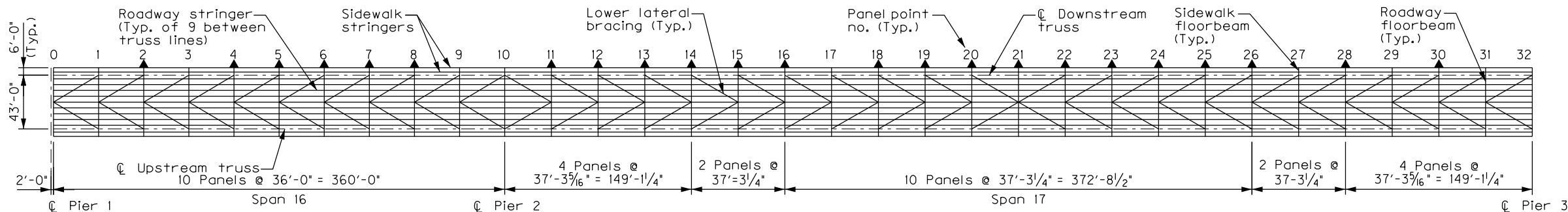
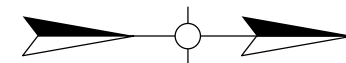
TRUSS PANELS



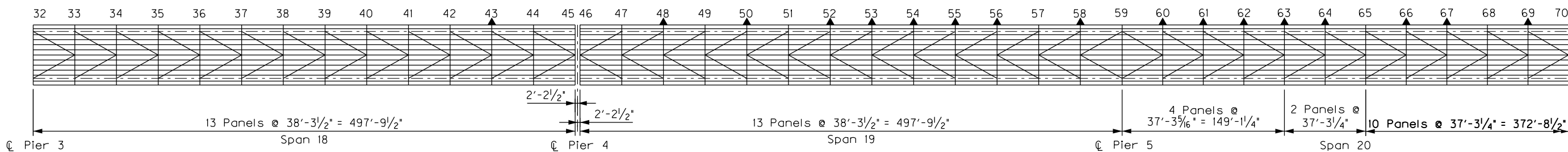
TRUSS PANELS



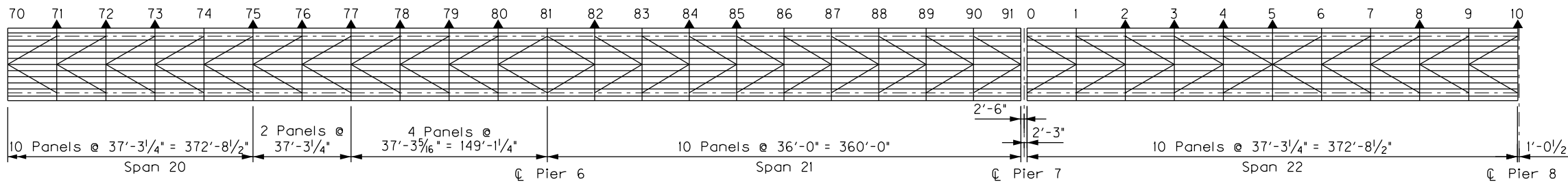
TRUSS PANELS



TRUSS SPANS



TRUSS SPANS



TRUSS SPANS

LEGEND:

▲ Sidewalk floorbeam strap connection replacement

NOTES:

- 1) See Sheets M11-M13 for sidewalk floorbeam strap connection replacement details
- 2) See Sheets M14-M16 for sidewalk removal/replacement details



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: D. Richardson	S. Ribble
DETAILED BY: D. Richardson	S. Ribble

REPAIR LOCATIONS - TRUSS SPANS

CROSSING
Ohio River

ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M5

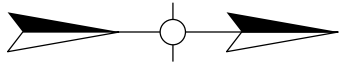
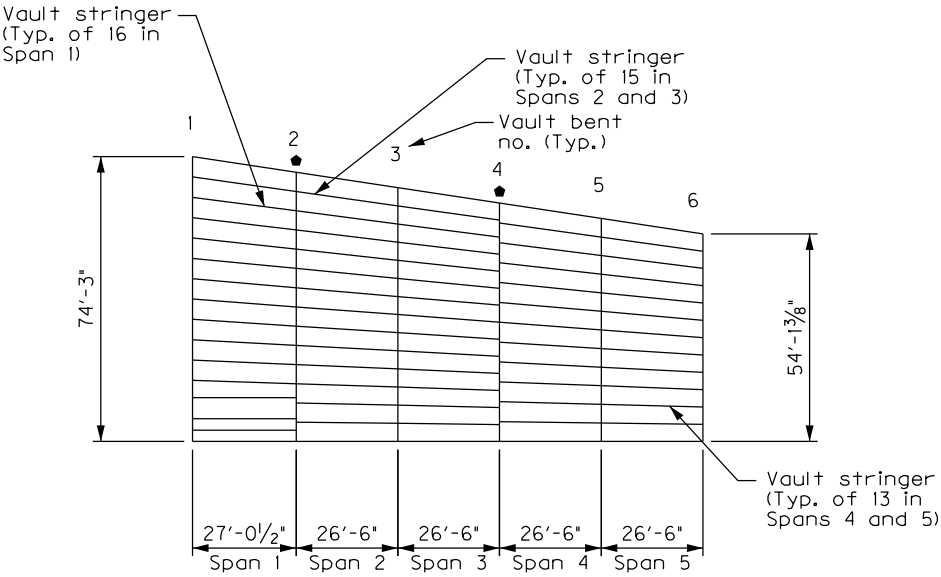
COUNTY OF
JEFFERSON
DRAWING NUMBER
29060

LEGEND:

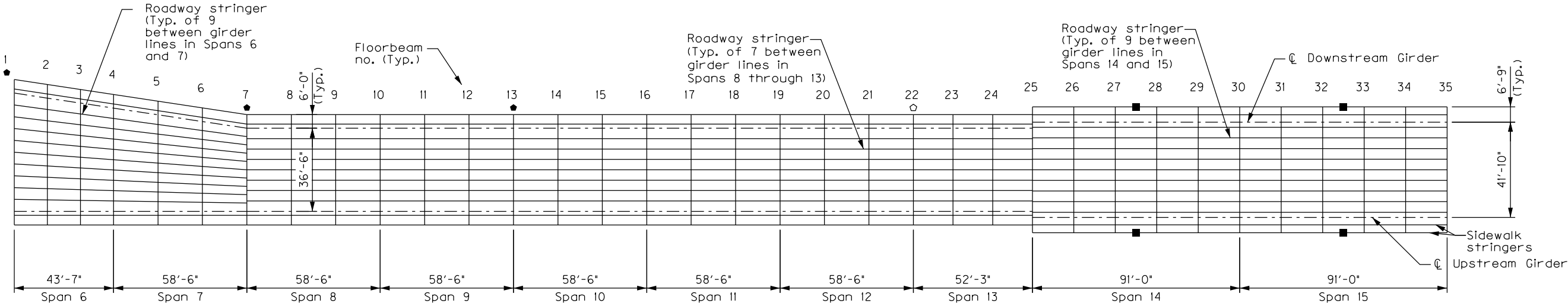
- Joint seal replacement
- Joint replacement
- Girder repairs
- △ Saddle bearing repairs

NOTES:

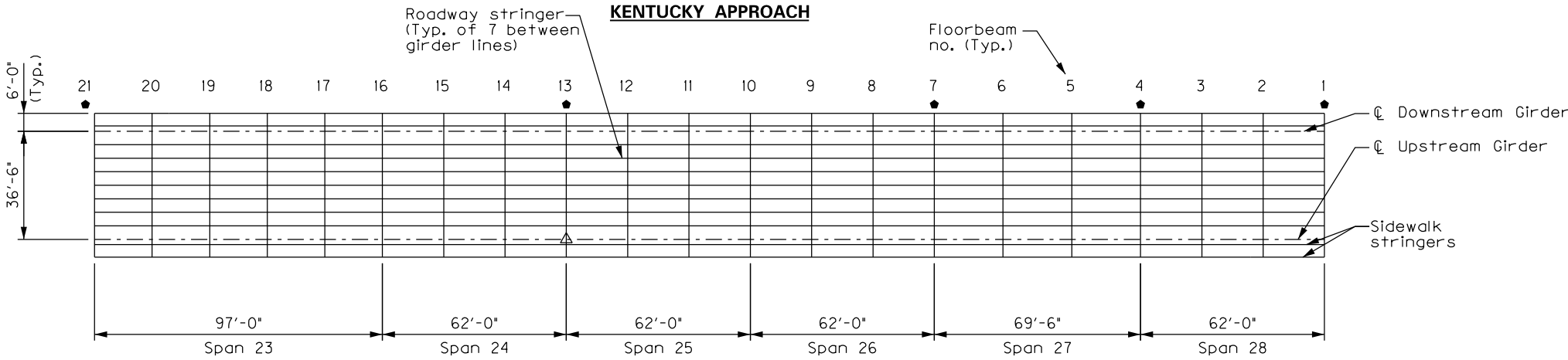
- 1) See Sheets M7-M9 for girder repair details
- 2) See Sheet M10 for saddle bearing repair details
- 3) See Sheets M17-M18 for joint replacement details
- 4) See Sheets M19-M20 for joint seal replacement details



KENTUCKY VAULT



KENTUCKY APPROACH



INDIANA APPROACH



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: D. Richardson	S. Ribble
DETAILED BY: D. Richardson	S. Ribble

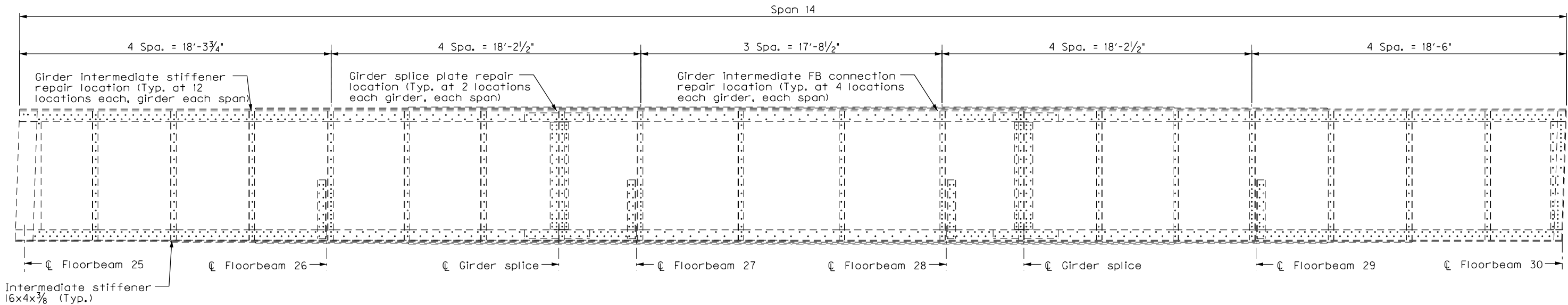
REPAIR LOCATIONS – APPROACHES

CROSSING
Ohio River

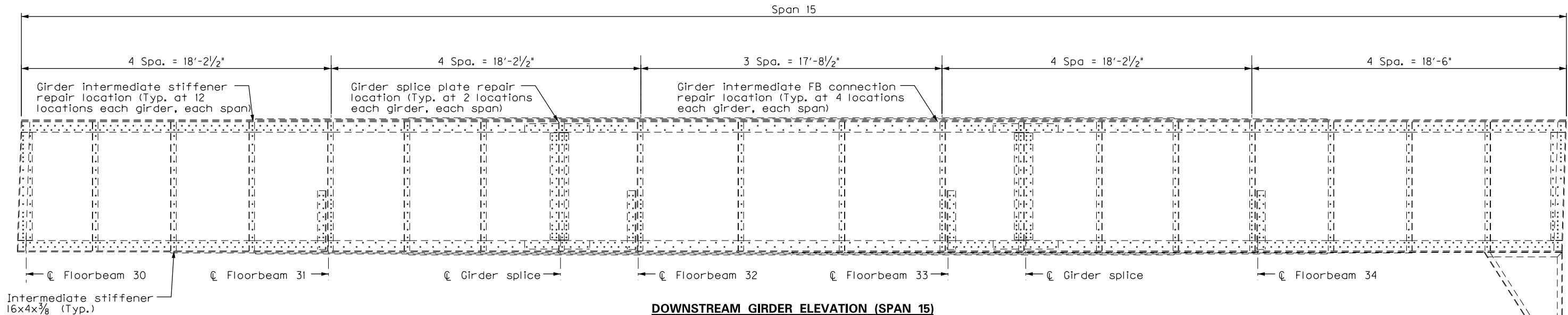
ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M6

COUNTY OF
JEFFERSON
DRAWING NUMBER
29060



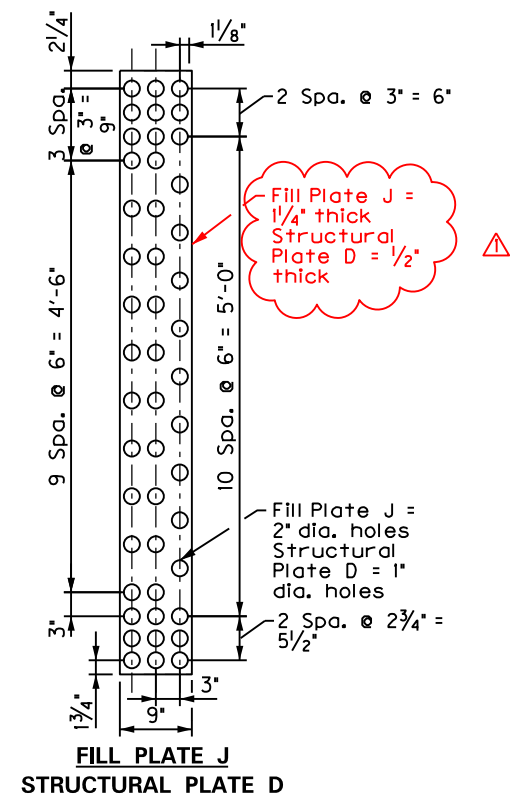
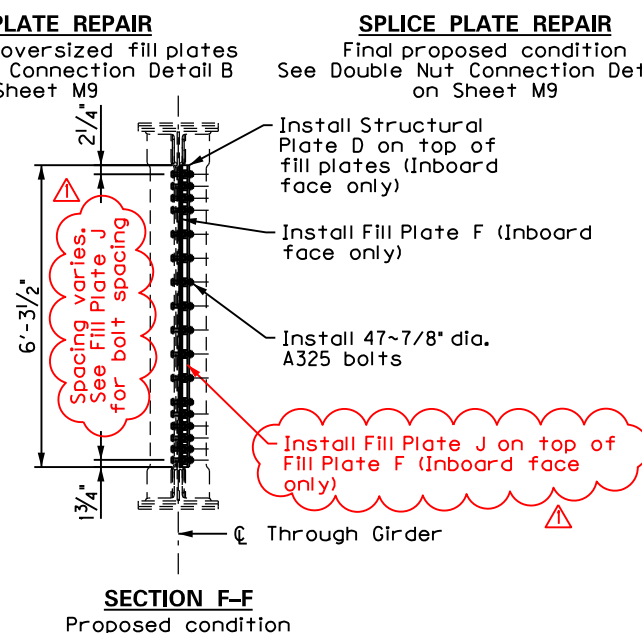
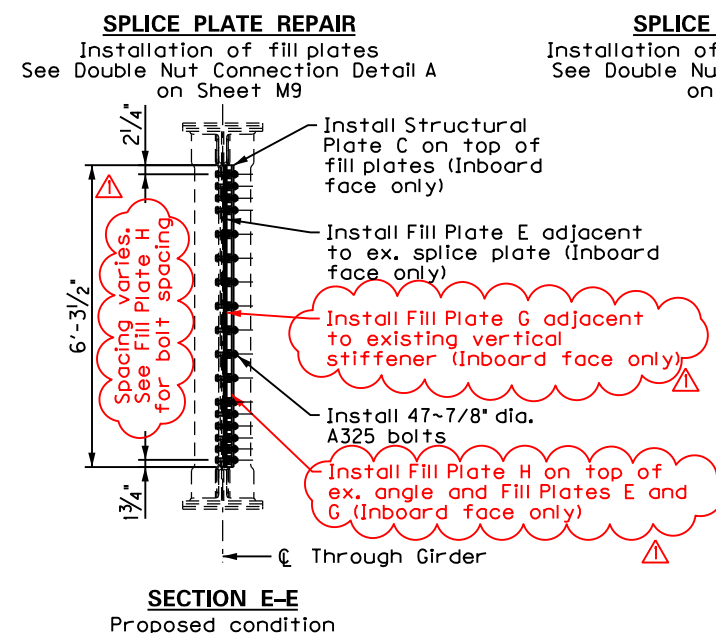
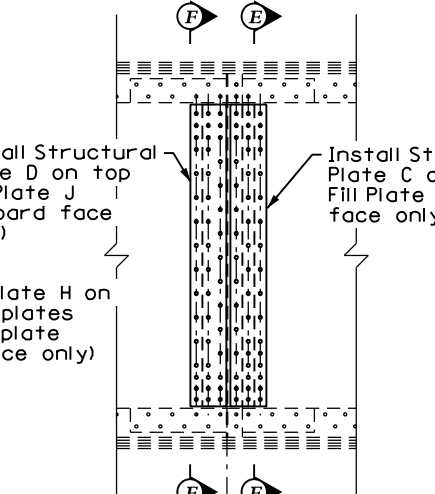
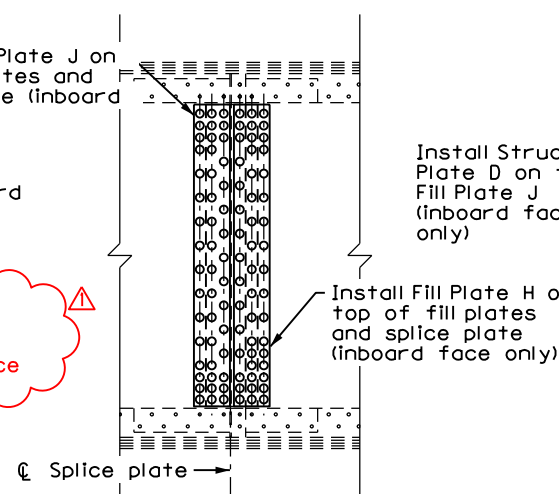
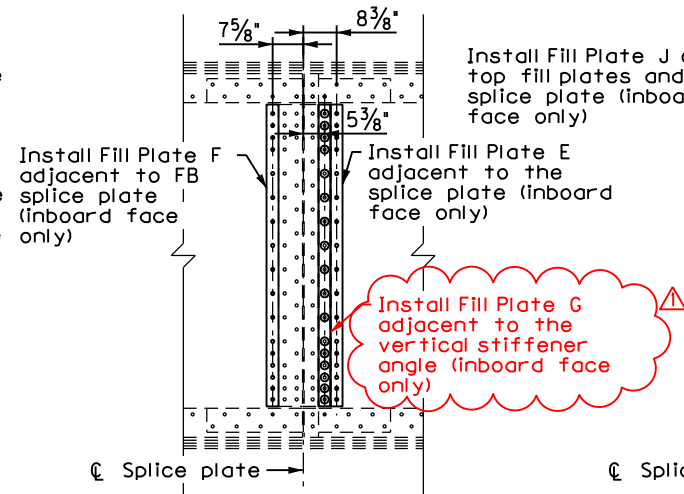
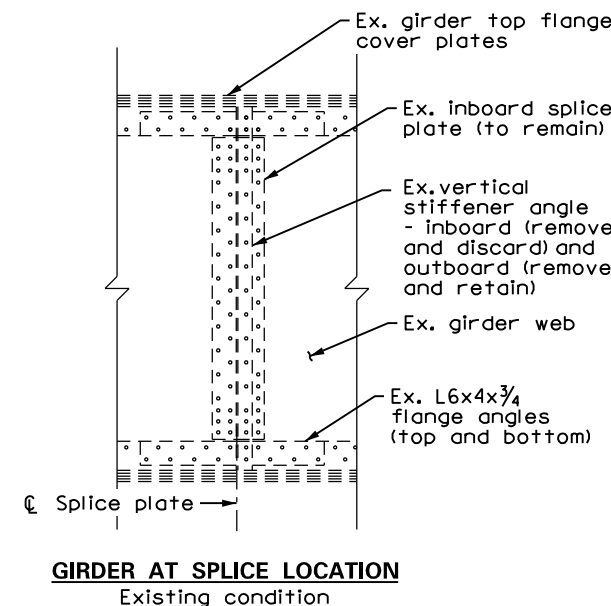
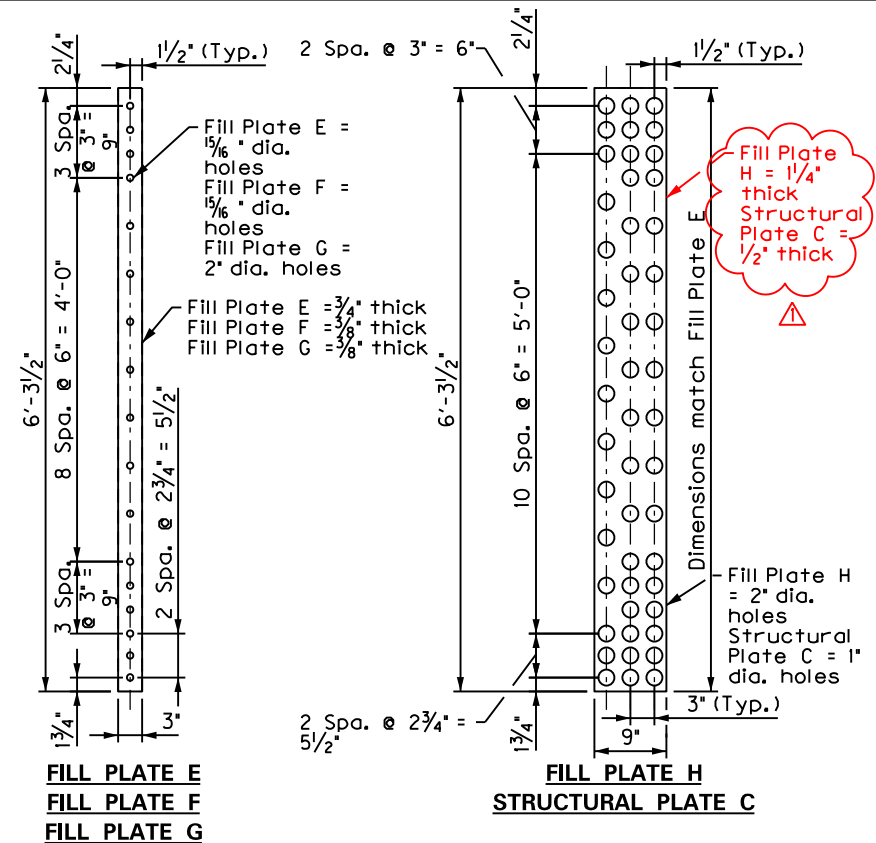
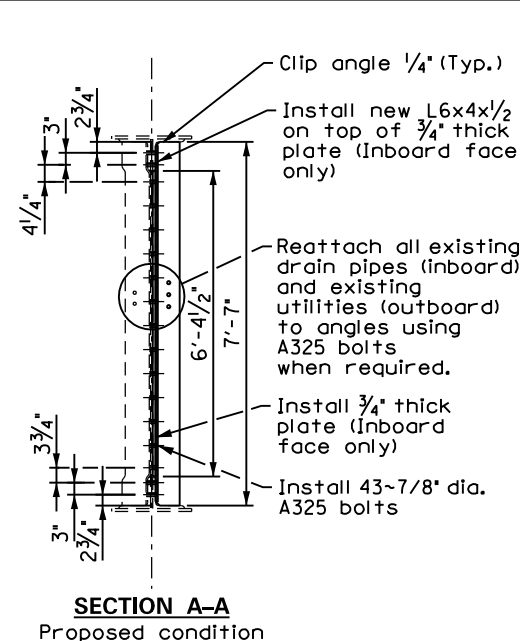
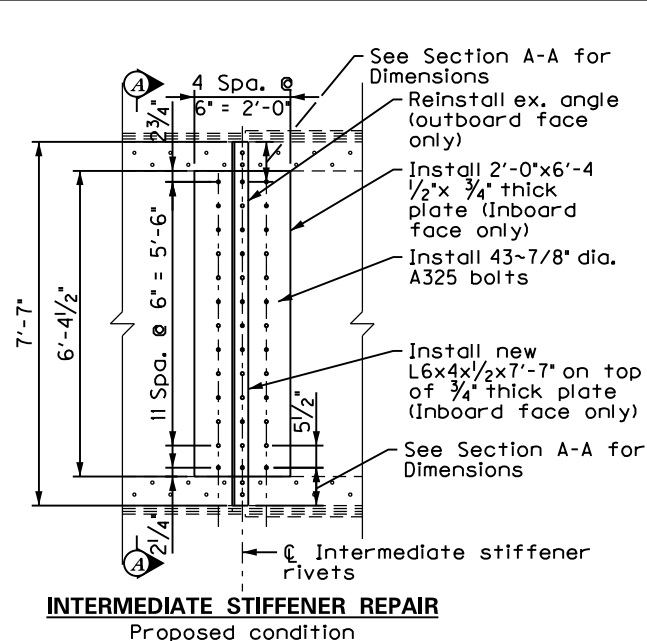
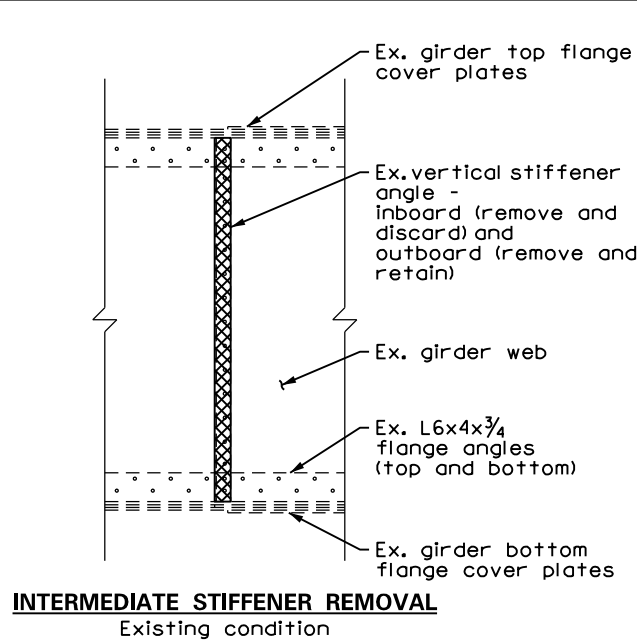
DOWNSTREAM GIRDER ELEVATION (SPAN 14)
(Upstream girder elevation similar)



DOWNSTREAM GIRDER ELEVATION (SPAN 15)
(Upstream girder elevation similar)

NOTES:

- 1) See the general notes and Special Notes for additional material and construction specifications, construction procedures, and pay items.
- 2) See Sheet M6 for the locations of the girder repairs.
- 3) The Contractor shall field verify all relevant existing dimensions.
- 4) If it is necessary to adjust the layout of bolts due to the geometry of members, the minimum spacing between bolts shall not be less than 2 $\frac{3}{4}$ ", and the maximum spacing between bolts shall not be greater than 6". Spacing is measured center to center of bolts. No bolt shall be placed closer than 1 $\frac{1}{4}$ " to the edge of a plate. This measurement is from the center of bolt to the edge.
- 5) Hole diameter shall be $\frac{1}{16}$ " larger than the diameter of the bolt unless noted otherwise.



NOTES:

- See the general notes and Special Notes for additional material and construction specifications, construction procedures, and pay items.
- See Sheets M6 and M7 for the locations of the girder repairs.
- The Contractor shall field verify all relevant existing dimensions.
- If it is necessary to adjust the layout of bolts due to the geometry of members, the minimum spacing between bolts shall not be less than 2 3/4", and the maximum spacing between bolts shall not be greater than 6". Spacing is measured center to center of bolts. No bolt shall be placed closer than 1 1/4" to the edge of a plate. This measurement is from the center of bolt to the edge.
- Hole diameter shall be 1/16" larger than the diameter of the bolt unless noted otherwise.



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



USER: Bridwell

REVISION	DATE
1 - Edited plate callouts	01/21/2026

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: D. Richardson	S. Ribble
DETAILED BY: D. Richardson	S. Ribble

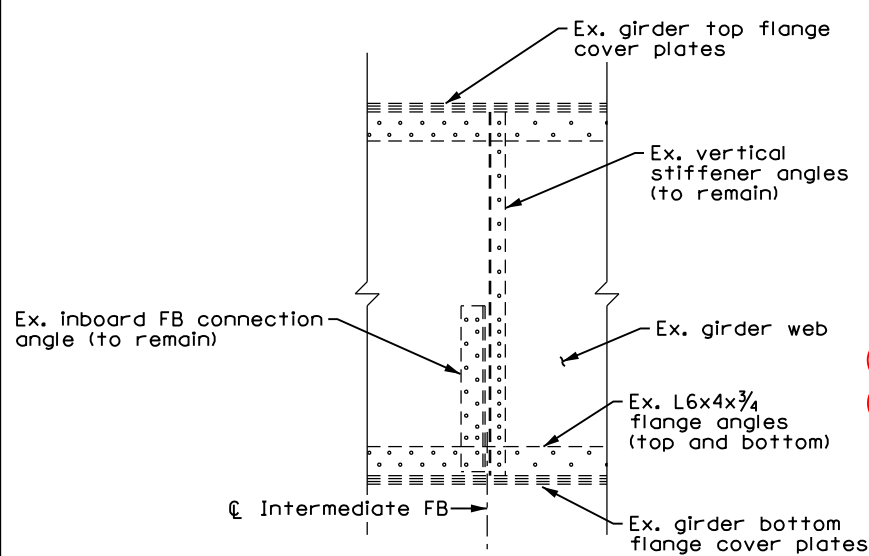
GIRDER REPAIR DETAILS - 1

CROSSING
Ohio River

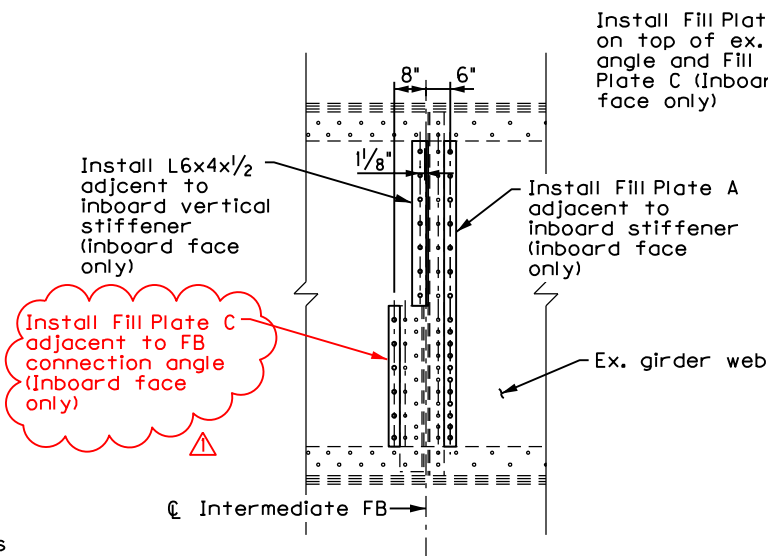
ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M8

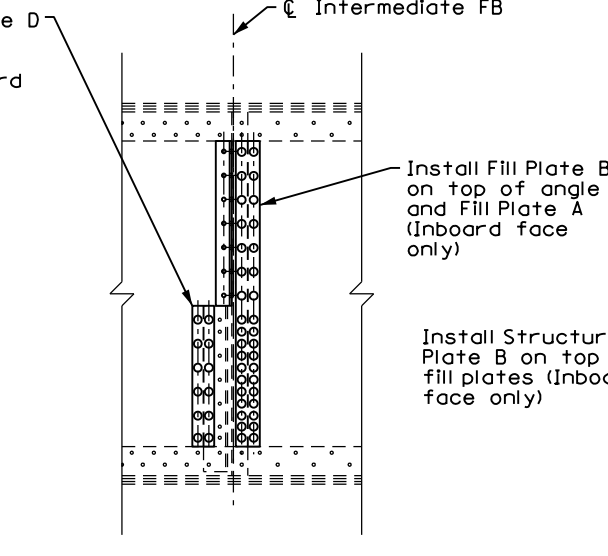
COUNTY OF
JEFFERSON
DRAWING NUMBER
29060



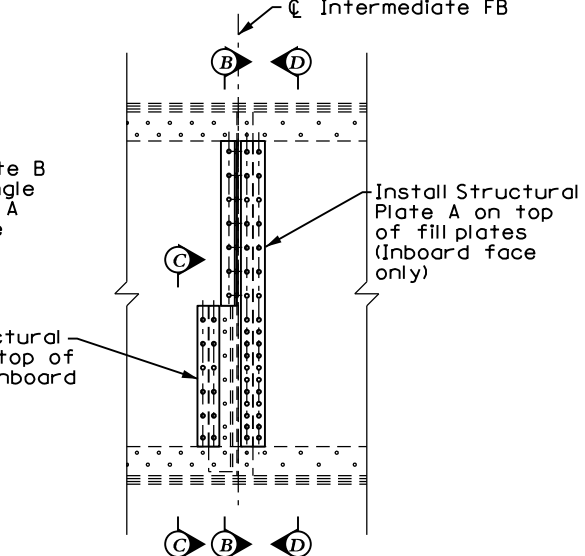
GIRDER AT FLOORBEAM LOCATION
Existing condition



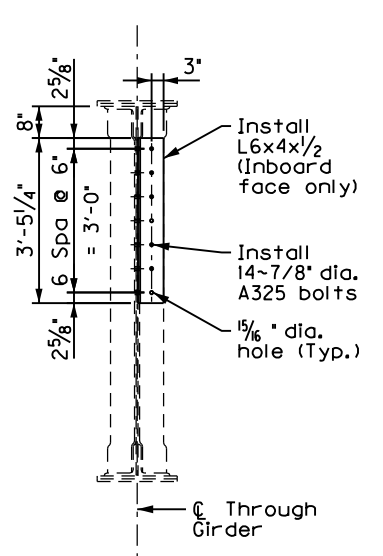
STIFFENER REPAIR AT FLOORBEAMS
Installation of fill plates
See Double Nut Connection Detail A



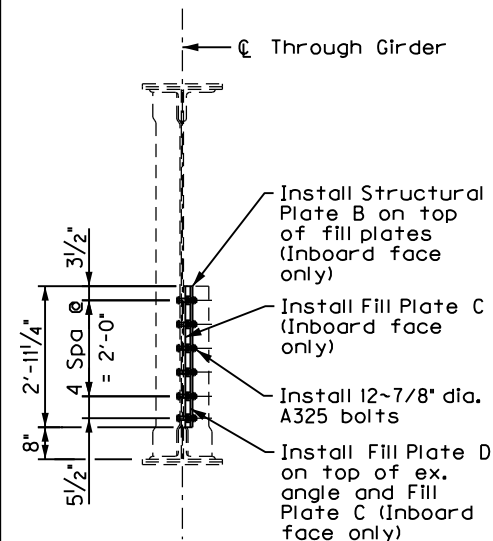
STIFFENER REPAIR AT FLOORBEAMS
Installation of oversized fill plates
See Double Nut Connection Detail B



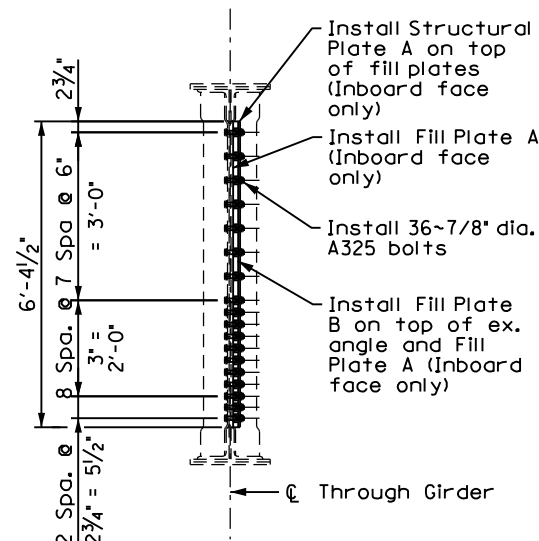
STIFFENER REPAIR AT FLOORBEAMS
Final proposed condition
See Double Nut Connection Detail C



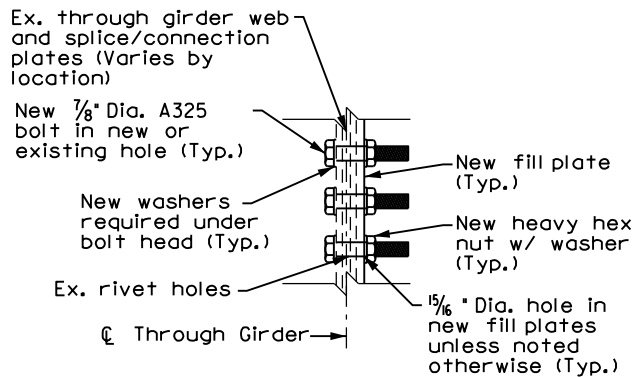
SECTION B-B
Final proposed condition



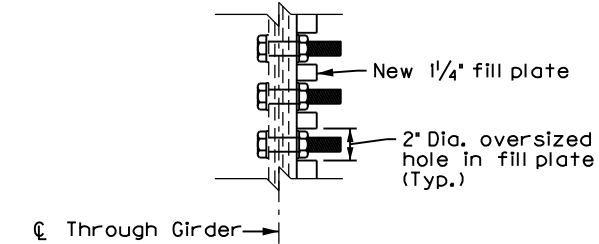
SECTION C-C
Final proposed condition



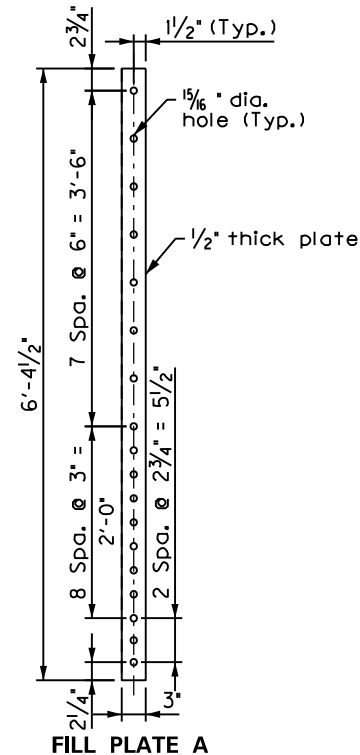
SECTION D-D
Final proposed condition



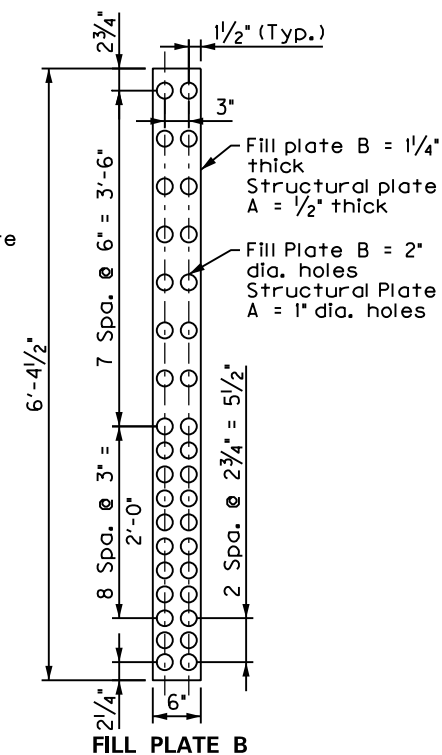
DOUBLE NUT CONNECTION DETAIL A
With or without additional fill plates. Initial fill plates added.



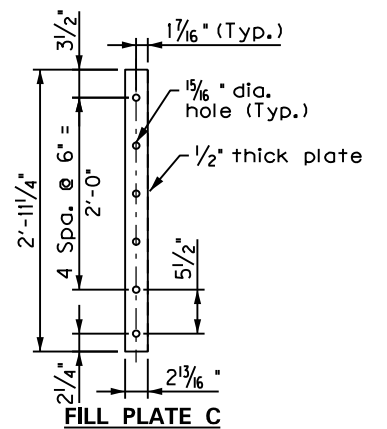
DOUBLE NUT CONNECTION DETAIL B
With or without additional fill plates. Oversized fill plates added.



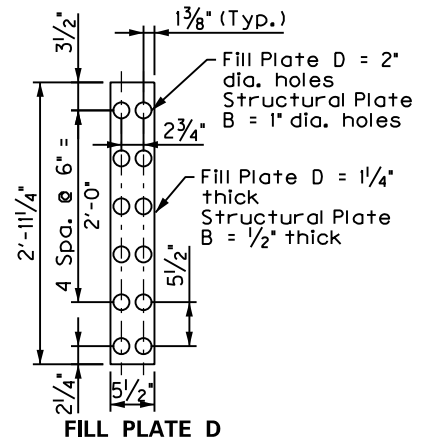
FILL PLATE A



FILL PLATE B
STRUCTURAL PLATE A



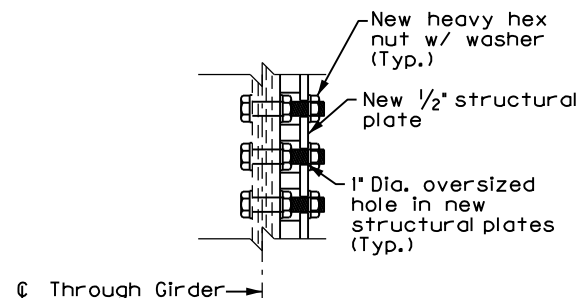
FILL PLATE C



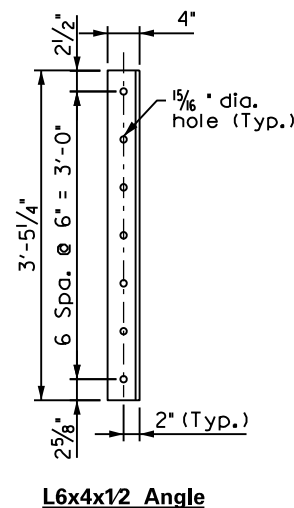
FILL PLATE D
STRUCTURAL PLATE B

NOTES:

- 1) See the general notes and Special Notes for additional material and construction specifications, construction procedures, and pay items.
- 2) See Sheets M6 and M7 for the locations of the girder repairs.
- 3) The Contractor shall field verify all relevant existing dimensions.
- 4) If it is necessary to adjust the layout of bolts due to the geometry of members, the minimum spacing between bolts shall not be less than 2 3/4 inch, and the maximum spacing between bolts shall not be greater than 6 inch. Spacing is measured center to center of bolts. No bolt shall be placed closer than 1 1/4 inch to the edge of a plate. This measurement is from the center of bolt to the edge.
- 5) Hole diameter shall be 1/16 inch larger than the diameter of the bolt unless noted otherwise.



DOUBLE NUT CONNECTION DETAIL C
With or without additional fill plates. Final condition



L6x4x12 Angle



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE
1 - Edited plate callouts	01/21/2026

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

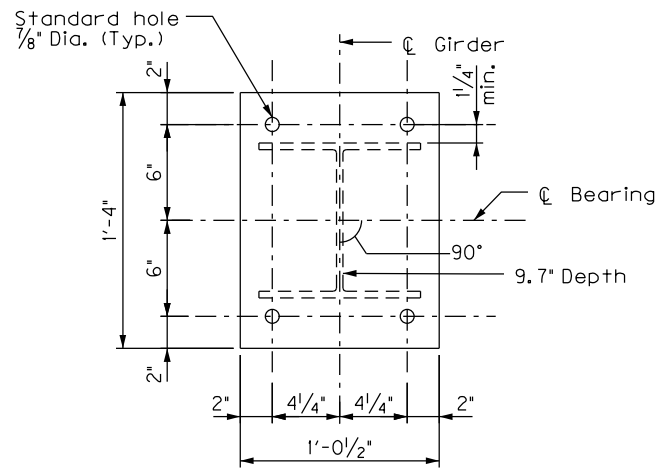
DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: D. Richardson	S. Ribble
DETAILED BY: D. Richardson	S. Ribble

GIRDER REPAIR DETAILS - 2
CROSSING
Ohio River

ROUTE
US-31E

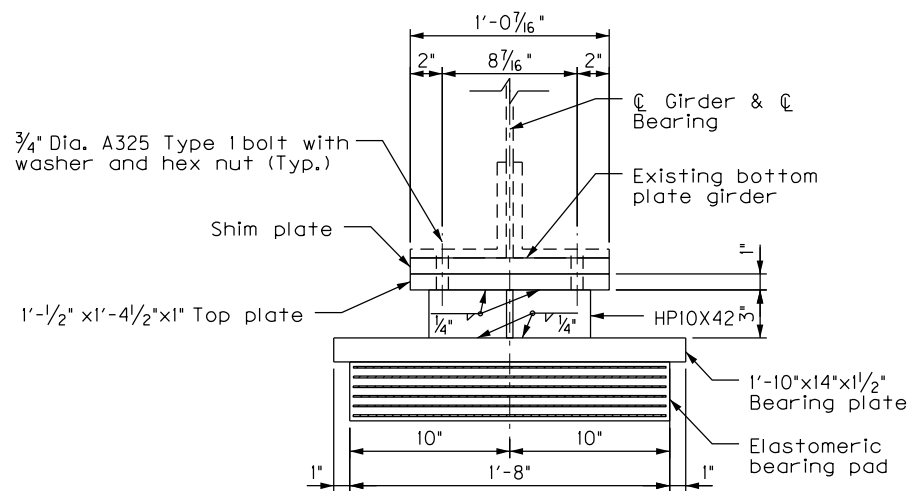
ITEM NO.
5-10165
SHEET NO.
M9

COUNTY OF
JEFFERSON
DRAWING NUMBER
29060

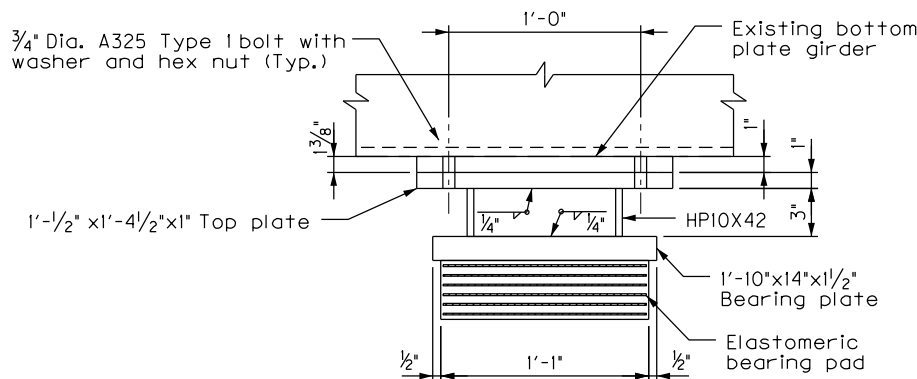


TOP PLATE PLAN

(Shim Plates Similar)

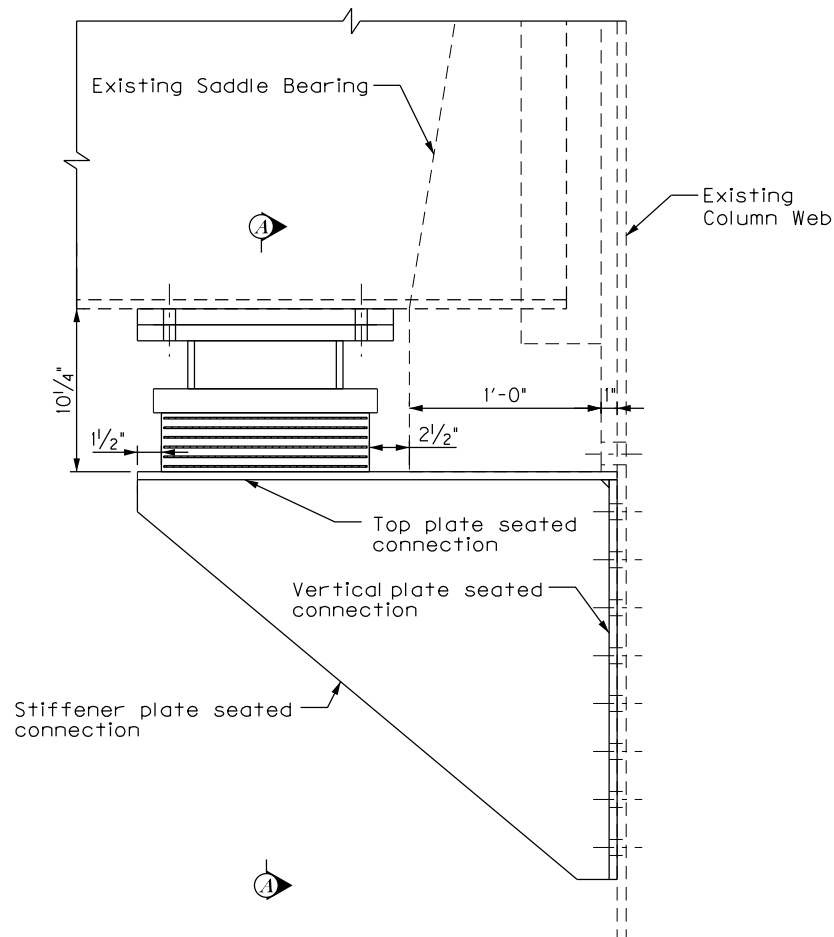


CROSS SECTION BEARING ASSEMBLY

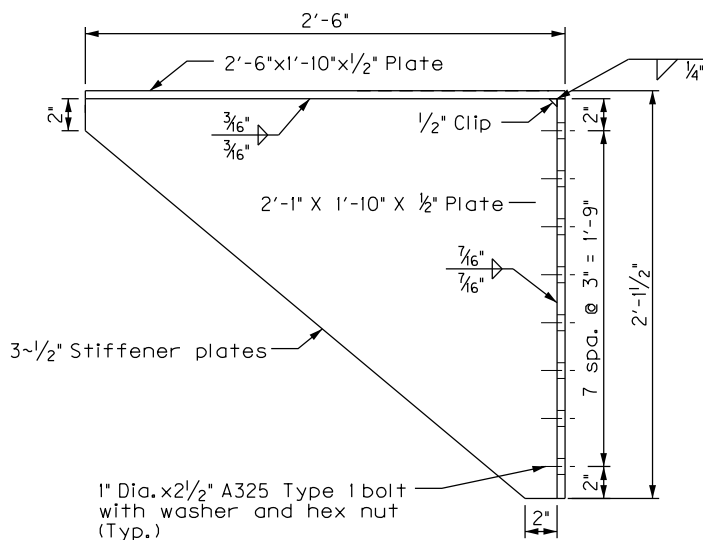


LONGITUDINAL VIEW BEARING ASSEMBLY

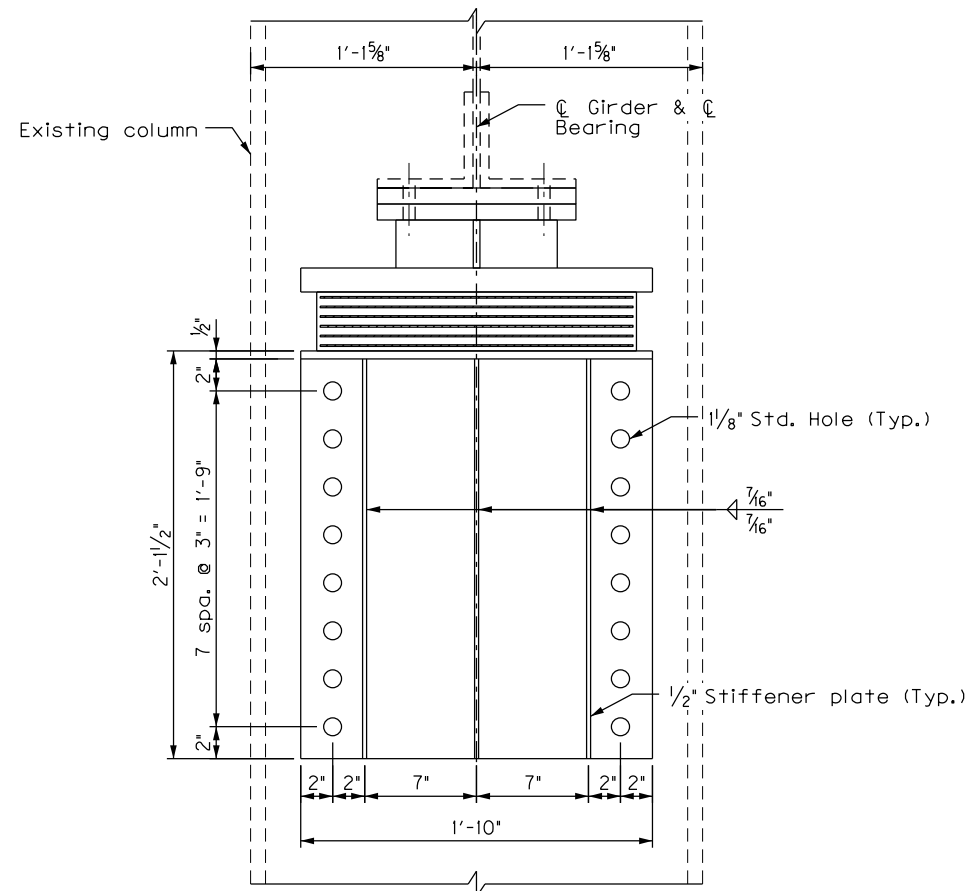
(* See Structural Steel Shim Plate Table for Dimensions)



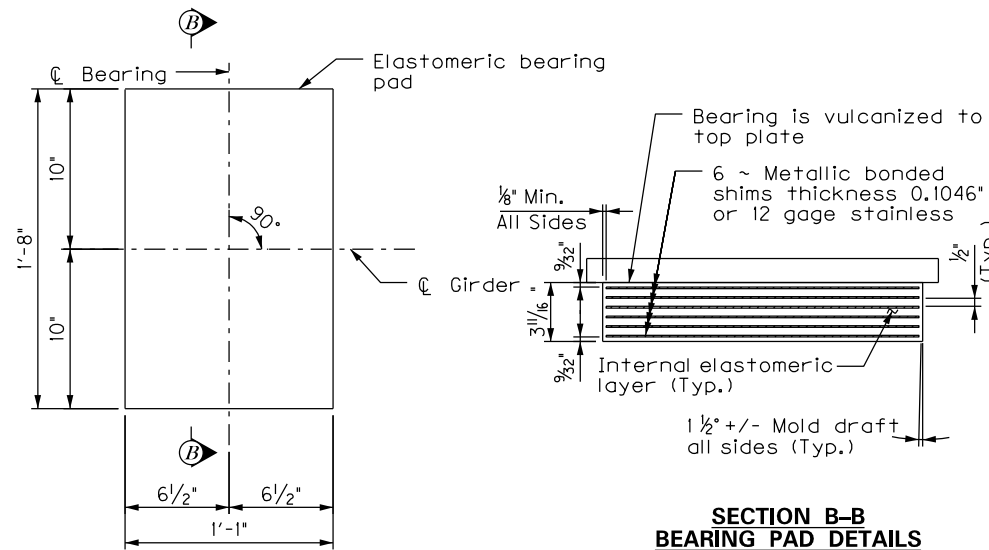
LONGITUDINAL SECTION



SEATED PLATE CONNECTION DETAIL



SECTION A-A



SECTION B-B BEARING PAD DETAILS

PLAN BEARING PAD DETAILS

NOTES:

- See the general notes and Special Notes for additional material and construction specifications, construction procedures, and pay items.
- The Contractor shall field verify all relevant existing dimensions.
- All structural steel to be A992 (Fy = 50 ksi).
- All welds to be E70 fillet welds (70 ksi).



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



USER: Richardson

REVISION

DATE

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DATE: January 24th, 2026

DESIGNED BY: K.Sharma

DETAILED BY: K.Sharma

CHECKED BY

E.Spahr

E.Spahr

SADDLE BEARING REPAIRS

CROSSING
Ohio River

ROUTE

US-31E

ITEM NO.

5-10165

SHEET NO.

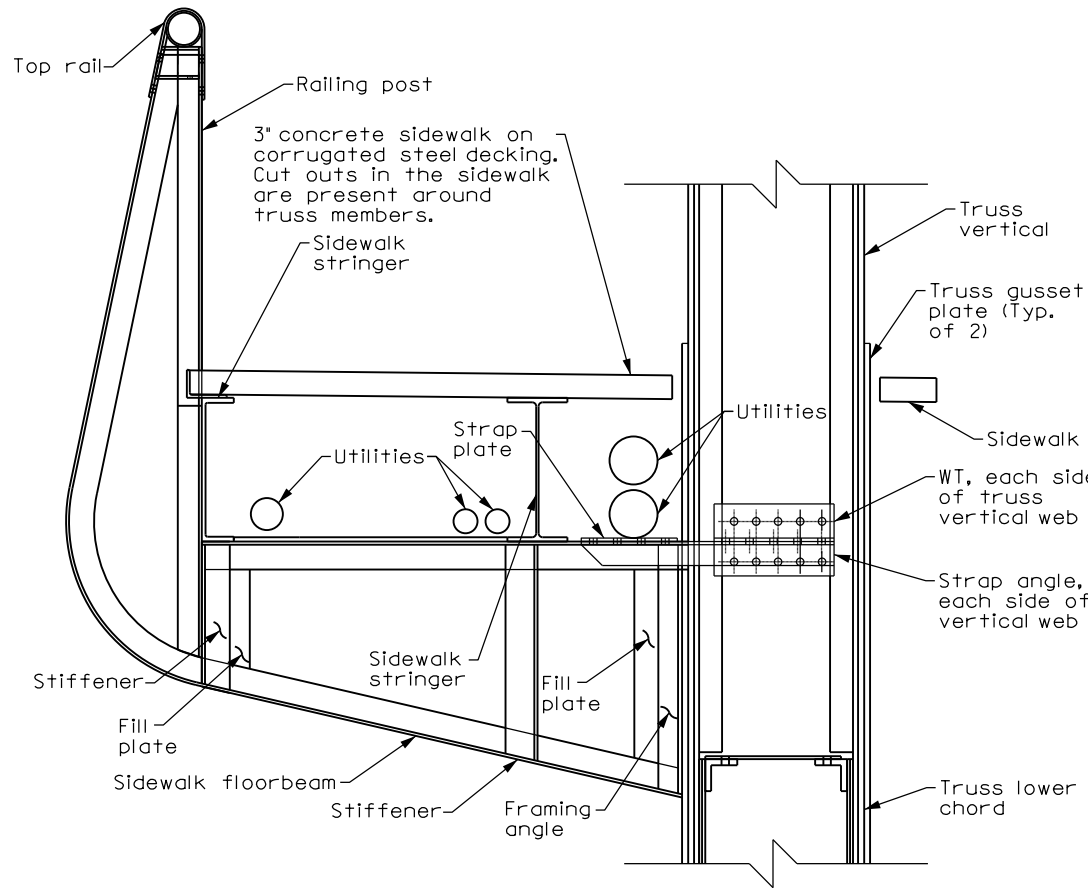
M10

COUNTY OF

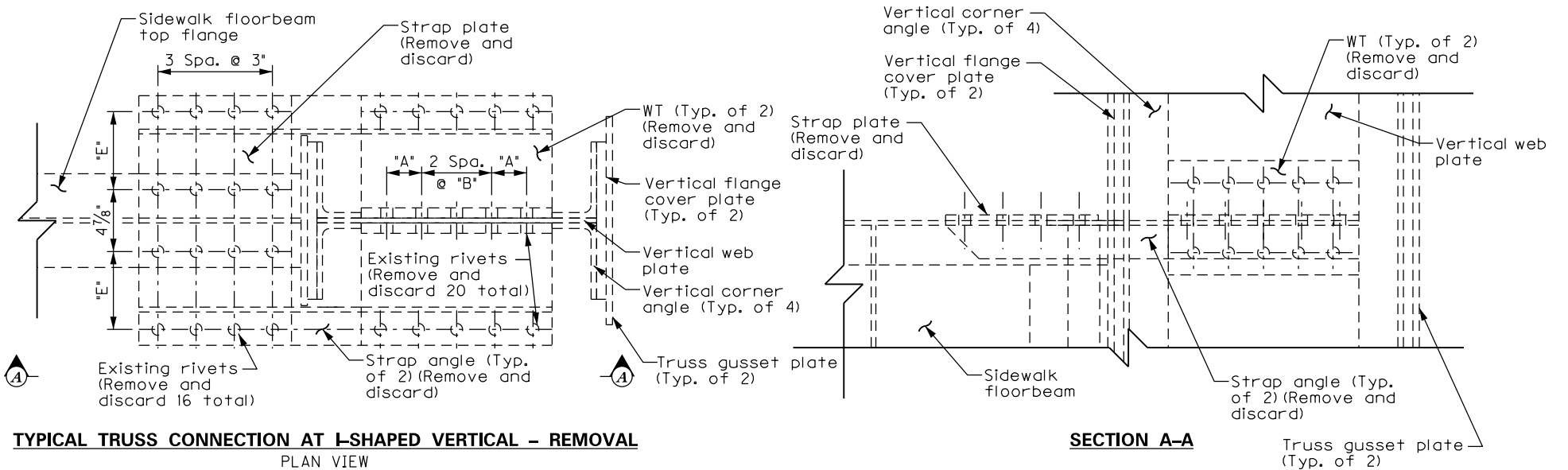
JEFFERSON

DRAWING NUMBER

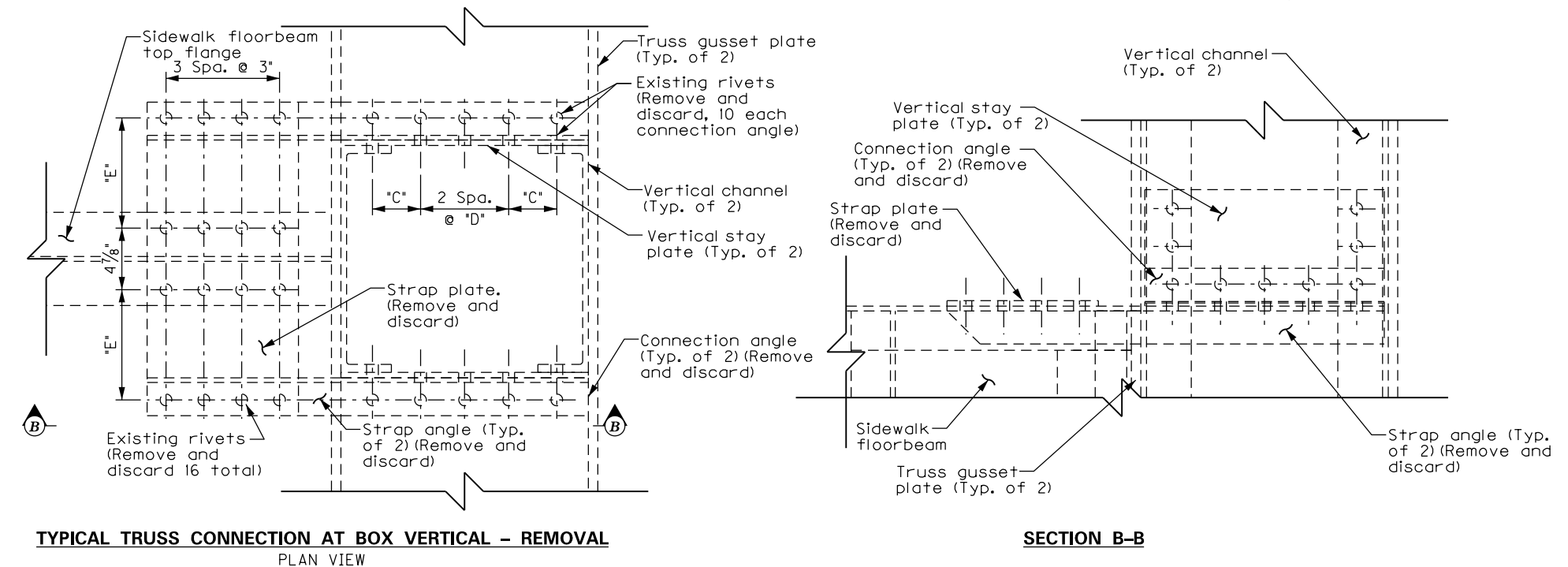
29060



TYPICAL I-SHAPED TRUSS VERTICAL SIDEWALK FLOORBEAM CONNECTION
DOWNSTREAM TRUSS FACING NORTH



TYPICAL TRUSS CONNECTION AT I-SHAPED VERTICAL - REMOVAL
PLAN VIEW



TYPICAL TRUSS CONNECTION AT BOX VERTICAL - REMOVAL
PLAN VIEW

NOTES:

- 1) See the general notes and the Special Note for Sidewalk Floorbeam Connection Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) Repair locations are identified on Sheet M5.
- 3) See Sheet M13 for lettered dimensions.
- 4) Number and placement of utilities varies over the length of the structure. The Contractor is responsible for locating, protecting, and temporarily support utilities, as necessary, and shall coordinate work with the owner of any affected utilities.
- 5) Truss panel points with built up box vertical have a similar connection to the sidewalk floorbeam top flange. The connection to the truss vertical utilizes angles rather than WTs.
- 6) WTs were cut from 21CB*80.



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



USER: Richardson

REVISION	DATE

DATE PLOTTED: December 18, 2025

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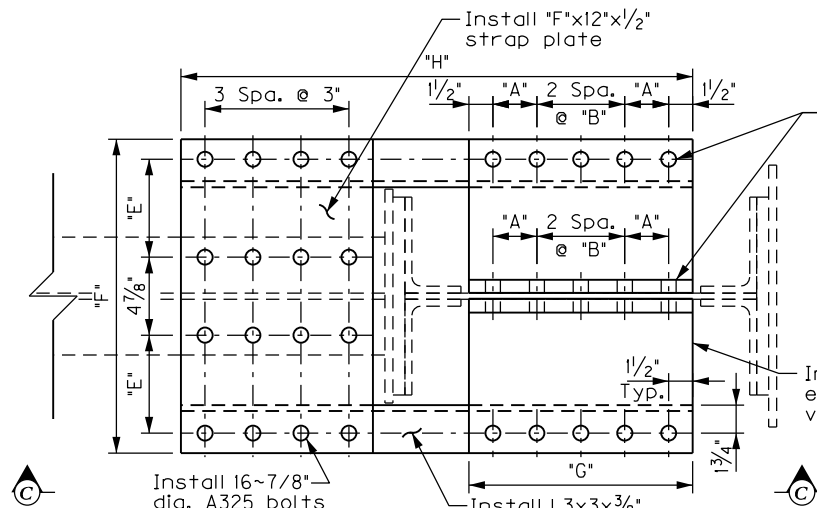
DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: S. Ribble	L. Bridwell
DETAILED BY: S. Ribble	D. Richardson

SW FLOORBEAM CONN. - REMOVAL
CROSSING
Ohio River

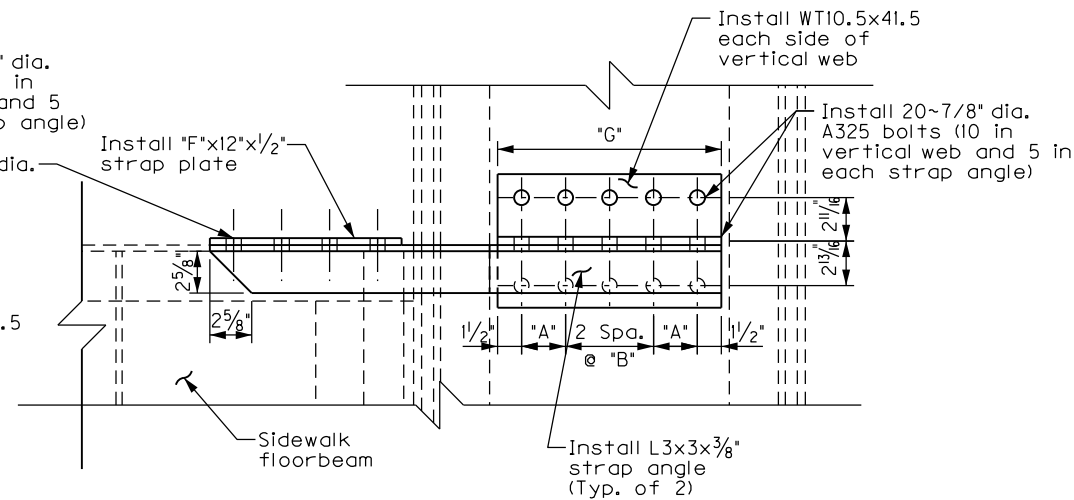
ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M11

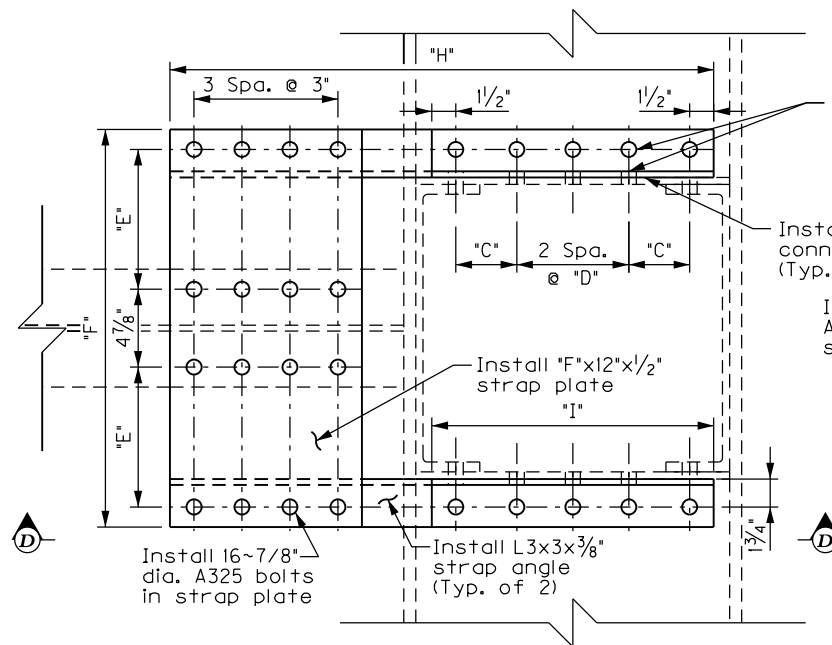
COUNTY OF
JEFFERSON
DRAWING NUMBER
29060



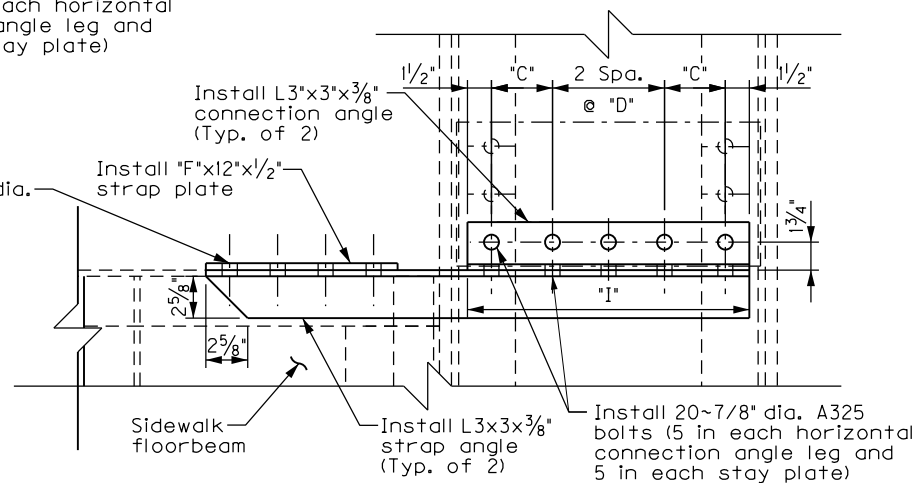
TYPICAL TRUSS CONNECTION AT I-SHAPED VERTICAL - REPAIR
PLAN VIEW



SECTION C-C



TYPICAL TRUSS CONNECTION AT BOX VERTICAL - REPAIR
PLAN VIEW



SECTION D-D

NOTES:

- 1) See the general notes and the Special Note for Sidewalk Floorbeam Connection Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) Repair locations are identified on Sheet M5.
- 3) See Sheet M13 for lettered dimensions.



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



MicroStation v24.00.02.62

USER: Richardson

DATE PLOTTED: December 18, 2025

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

FILE NAME: P:\PR62090\06 CAD\SHEETS\SIDEWALK REPAIRS 2.DGN

DATE: January 24th, 2026
DESIGNED BY: S. Ribble
DETAILED BY: S. Ribble

CHECKED BY
D. Richardson
D. Richardson

SW FLOORBEAM CONN. - PROPOSED
CROSSING
Ohio River

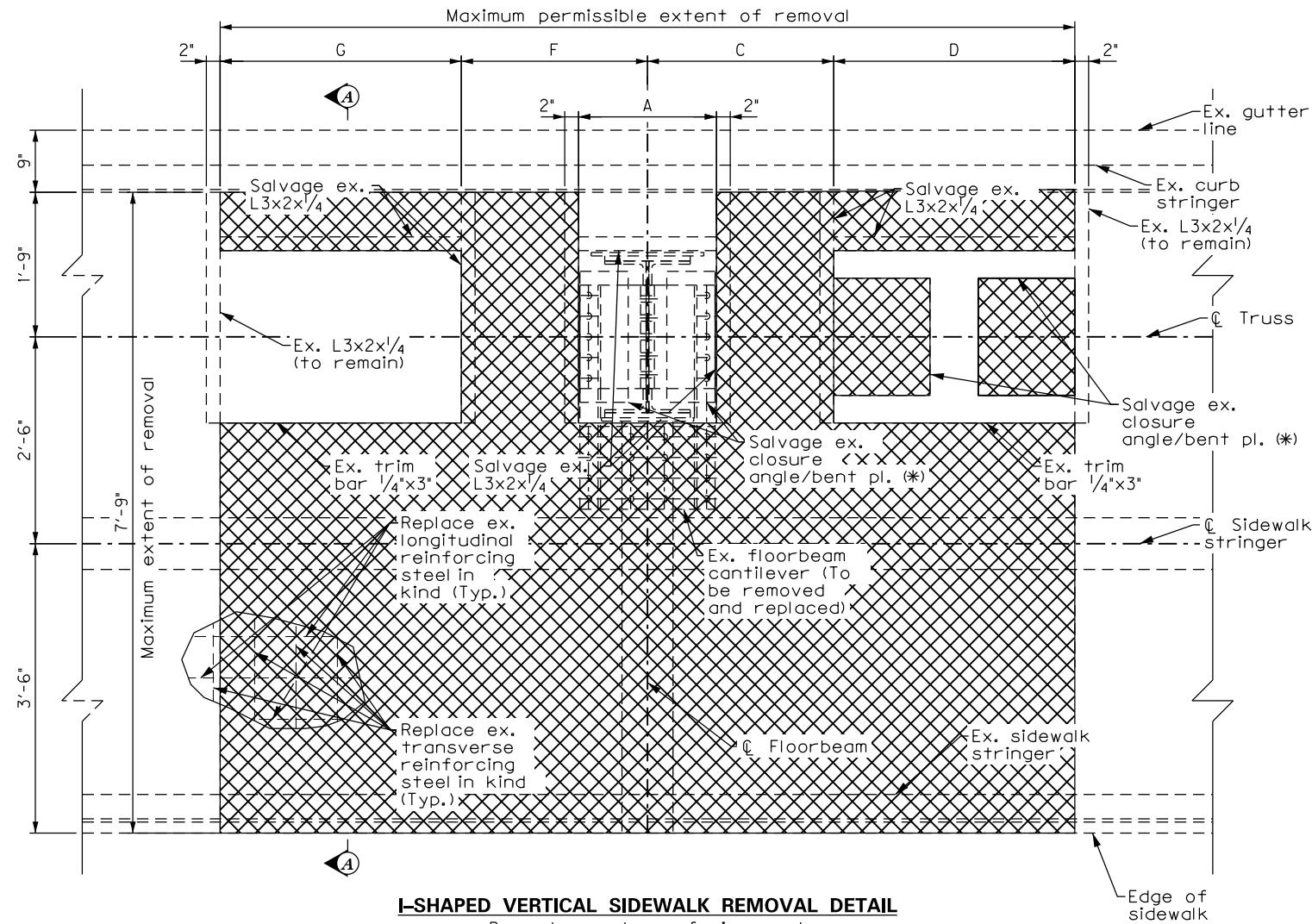
ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M12

COUNTY OF
JEFFERSON
DRAWING NUMBER
29060

SIDEWALK FLOORBEAM CONNECTION REPAIR DIMENSIONS											
PANEL POINT	SPAN	A	B	C	D	E	F	G	H	I	CONN. TYPE *
0	16	3"	3"			5 ⁵ / ₁₆ "	18 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
1	16	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
2	16			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁹ / ₁₆ "	19 ⁷ / ₈ "	B
3	16	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
4	16			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁹ / ₁₆ "	19 ⁷ / ₈ "	B
5	16	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
6	16			3 ¹⁵ / ₁₆ "	4"	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		34 ⁷ / ₁₆ "	18 ⁷ / ₈ "	B
7	16	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
8	16	3 ¹ / ₂ "	3 ¹⁵ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	17 ⁷ / ₈ "	33 ¹⁵ / ₁₆ "		I
9	16	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
11	17	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
12	17	3 ¹ / ₂ "	4 ³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₈ "	34 ³ / ₁₆ "		I
13	17	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
14	17			3 ¹³ / ₁₆ "	3 ¹ / ₂ "	8 ³ / ₁₆ "	25 ¹ / ₂ "		33 ³ / ₁₆ "	17 ⁵ / ₈ "	B
15	17	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
16	17			3 ¹³ / ₁₆ "	4"	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ⁵ / ₁₆ "	18 ⁵ / ₈ "	B
17	17	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁹ / ₁₆ "		I
18	17			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
19	17	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁹ / ₁₆ "		I
20	17			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁹ / ₁₆ "	19 ⁷ / ₈ "	B
21	17	3 ³ / ₈ "	4 ¹ / ₂ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₄ "	34 ³ / ₈ "		I
22	17			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁹ / ₁₆ "	19 ⁷ / ₈ "	B
23	17	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
24	17			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁹ / ₁₆ "	19 ⁷ / ₈ "	B
25	17	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁹ / ₁₆ "		I
26	17			3 ¹³ / ₁₆ "	4"	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ⁵ / ₁₆ "	18 ⁷ / ₈ "	B
27	17	3 ³ / ₁₆ "	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15 ³ / ₈ "	32 ¹¹ / ₁₆ "		I
28	17			3 ¹³ / ₁₆ "	3 ¹ / ₂ "	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		33 ¹³ / ₁₆ "	17 ⁵ / ₈ "	N
29	17	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
30	17	3 ¹ / ₂ "	4 ³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₈ "	34 ³ / ₁₆ "		I
31	17	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
33	18	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
34	18	3 ¹ / ₂ "	4 ³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₈ "	34 ³ / ₁₆ "		I
35	18	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
36	18			3 ¹⁵ / ₁₆ "	4"	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		34 ⁷ / ₁₆ "	18 ⁷ / ₈ "	B
37	18	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
38	18			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
39	18	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
40	18			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
41	18	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
42	18			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
43	18	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
44	18			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
47	19			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
48	19	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
49	19			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
50	19	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
51	19			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B

SIDEWALK FLOORBEAM CONNECTION REPAIR DIMENSIONS											
PANEL POINT	SPAN	A	B	C	D	E	F	G	H	I	CONN. TYPE *
52	19	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
53	19			4 ¹¹ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		35 ¹¹ / ₁₆ "	21 ³ / ₈ "	B
54	19	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
55	19			3 ¹⁵ / ₁₆ "	4"	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		34 ⁷ / ₁₆ "	18 ⁷ / ₈ "	B
56	19	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
57	19	3 ¹ / ₂ "	4 ³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₈ "	34 ³ / ₁₆ "		I
58	19	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
60	20	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
61	20	3 ¹ / ₂ "	4 ³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₈ "	34 ³ / ₁₆ "		I
62	20	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
63	20			3 ¹³ / ₁₆ "	3 ¹ / ₂ "	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		33 ¹³ / ₁₆ "	17 ⁵ / ₈ "	B
64	20	3 ³ / ₁₆ "	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15 ³ / ₈ "	32 ¹¹ / ₁₆ "		I
65	20			3 ¹³ / ₁₆ "	4"	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ⁵ / ₁₆ "	18 ⁵ / ₈ "	B
66	20	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
67	20			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
68	20	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
69	20			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
70	20	3 ³ / ₈ "	4 ¹ / ₂ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₄ "	34 ³ / ₈ "		I
71	20			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
72	20	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
73	20			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
74	20	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
75	20			3 ¹³ / ₁₆ "	4"	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ⁵ / ₁₆ "	18 ⁵ / ₈ "	B
76	20	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
77	20			3 ¹³ / ₁₆ "	3 ¹ / ₂ "	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		33 ¹³ / ₁₆ "	17 ⁵ / ₈ "	B
78	20	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
79	20	3 ¹ / ₂ "	4 ³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₈ "	34 ³ / ₁₆ "		I
80	20	3"	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
82	21	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
83	21	3 ¹ / ₂ "	3 ¹⁵ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	17 ⁷ / ₈ "	33 ¹⁵ / ₁₆ "		I
84	21	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
85	21			3 ¹⁵ / ₁₆ "	4"	8 ¹³ / ₁₆ "	25 ¹ / ₂ "		34 ⁷ / ₁₆ "	18 ⁷ / ₈ "	B
86	21	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
87	21			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
88	21	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
89	21			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
90	21	2 ³ / ₄ "	2 ³ / ₄ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	14"	32"		I
91	21	3"	3"			5 ⁵ / ₁₆ "	18 ¹ / ₂ "	15"	32 ¹ / ₂ "		I
0	22	4 ⁷ / ₈ "	3"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₄ "	34 ³ / ₈ "		I
1	22	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
2	22			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
3	22	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
4	22			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
5	22	3 ³ / ₈ "	4 ¹ / ₂ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	18 ³ / ₄ "	34 ³ / ₈ "		I
6	22			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
7	22	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
8	22			3 ¹⁵ / ₁₆ "	4 ¹ / ₂ "	7 ⁵ / ₁₆ "	22 ¹ / ₂ "		34 ¹⁵ / ₁₆ "	19 ⁷ / ₈ "	B
9	22	3 ⁷ / ₁₆ "	5"			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	19 ⁷ / ₈ "	34 ¹⁵ / ₁₆ "		I
10	22	3 ⁷ / ₁₆ "	3 ¹³ / ₁₆ "			6 ¹³ / ₁₆ "	21 ¹ / ₂ "	17 ¹ / ₂ "	33 ³ / ₄ "		I



I-SHAPED VERTICAL SIDEWALK REMOVAL DETAIL

Downstream truss facing east
Dimensions as shown: Spans 16-18 & 22
Dimensions opposite hand: Spans 19-21
(*) = Closure Bent Pl. @ FB 18, 20, 67, 69 shown
FB 22, 24, 71, 73 opposite hand

LEGEND:

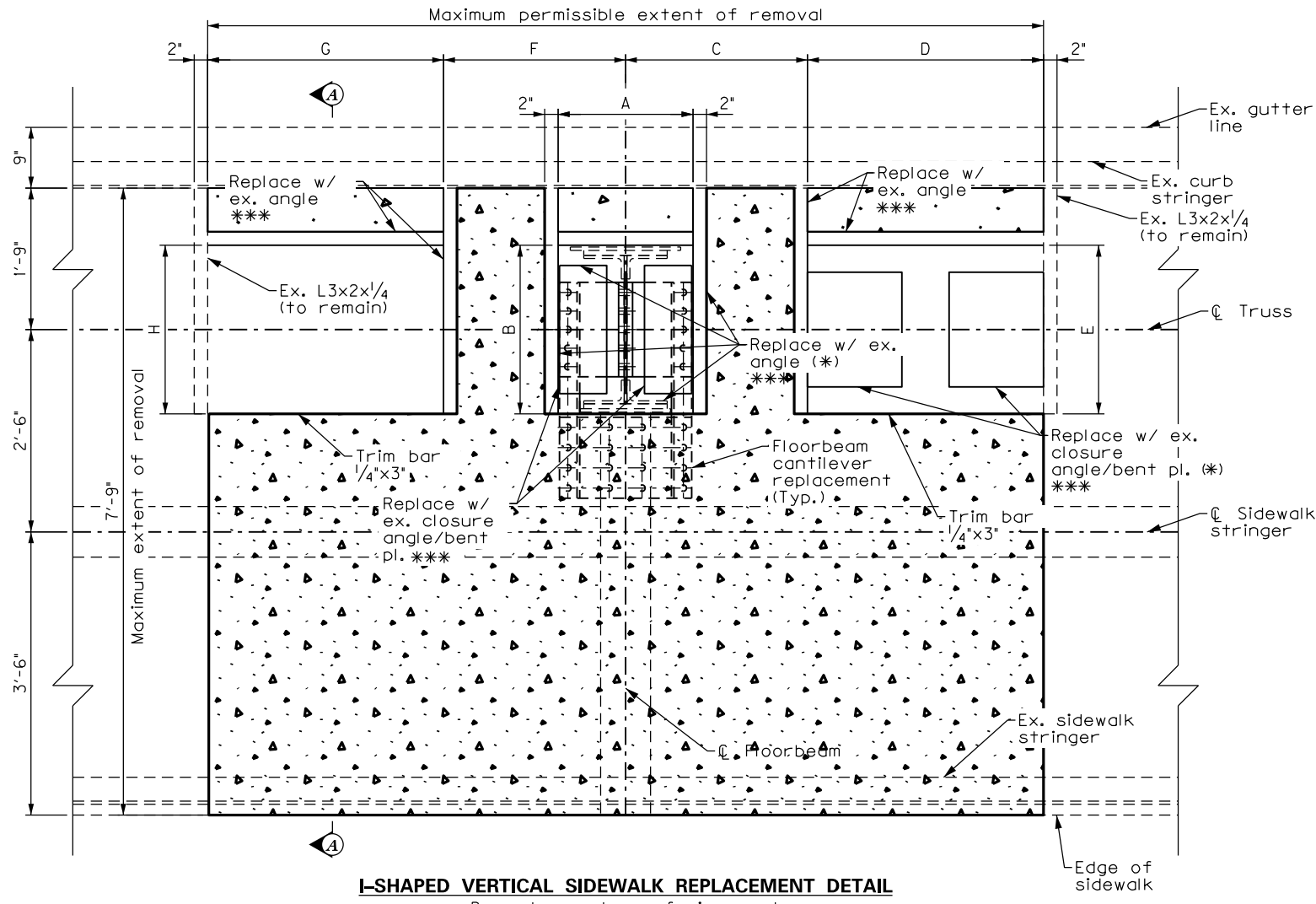
= Limits of removal

= New concrete

*** = With the permission of the Engineer, rather than salvaging the existing closure angles, trim bars, and bent plates in the sidewalk, the Contractor has the option to replace these angles, trim bars, and bent plates with new angles, trim bars, and bent plates at the same size and locations as the existing angles and plates. If the Contractor chooses this option and permission is granted by the Engineer, the cost of providing and installing new reinforcing steel will be at the Contractor's expense.

NOTES:

- See the general notes and the Special Note for Sidewalk Floorbeam Connection Replacement for additional material and construction specifications, construction procedures, and pay items.
- The Contractor shall field verify all relevant existing dimensions and number sizes.
- The details on this sheet are provided to the Contractor for use if an alternative method of accessing the floorbeam cantilever repair locations is determined to be necessary. The Contractor shall coordinate with the Engineer on proposed locations.



I-SHAPED VERTICAL SIDEWALK REPLACEMENT DETAIL

Downstream truss facing east
Dimensions as shown: Spans 16-18 & 22
Dimensions opposite hand: Spans 19-21
(*) = Closure Bent Pl. @ FB 18, 20, 67, 69 shown
FB 22, 24, 71, 73 opposite hand

BAR SIZE	
Dia.	Lap
1/2"	2'-5"
5/8"	3'-6"

PANEL POINT		SIDEWALK REMOVAL/REPLACEMENT DIMENSIONS									
SPAN 16	SPAN 21	A	B	C	D	E	F	G	H	Closure Angle/Bent Plate	Length
2		1'-8"	2'-2"	2'-1"	3'-3"	2'-3"	2'-1"	3'-3"	2'-3"		
4		1'-8"	2'-2"	2'-1"	3'-3"	2'-3"	2'-1"	3'-3"	2'-5"		
6	85	1'-11"	2'-1"	2'-1"	3'-3"	2'-3"	3'-10"	2'-3"	2'-10"	Bent Pl. 5/16 x 33	11"
8		2'-2"	2'-3"	3'-6"	2'-11"	2'-1"	3'-6"	2'-11"	2'-1"		
SPAN 17	SPAN 20	A	B	C	D	E	F	G	H		
12	79	1'-8"	2'-1"	3'-8"	2'-11"	2'-2"	3'-7"	2'-11"	2'-1"	L7x4x3/8	1'-7"
14	77	1'-11"	2'-0"	4'-0"	2'-3"	2'-10"	1'-10"	3'-11"	2'-2"	Bent Pl. 5/16 x 33	11"
16	75	See Suspended Span Hanger Detail									
18	73	1'-8"	2'-1"	2'-6"	2'-10"	2'-2"	2'-5"	3'-0"	2'-2"	Bent Pl. 5/16 x 16	1'-7"
20	71	1'-8"	2'-1"	2'-9"	2'-3"	2'-1"	2'-5"	3'-0"	2'-2"	Bent Pl. 5/16 x 13	1'-7"
22	69	1'-8"	2'-1"	2'-5"	3'-0"	2'-2"	2'-8"	2'-3"	2'-1"	Bent Pl. 5/16 x 13	1'-7"
24	67	1'-8"	2'-1"	2'-5"	3'-0"	2'-2"	2'-6"	2'-10"	2'-2"	Bent Pl. 5/16 x 16	1'-7"
26		See Suspended Span Hanger Detail									
28	63	1'-11"	2'-0"	1'-10"	3'-11"	2'-10"	4'-0"	4'-0"	2'-10"	Bent Pl. 5/16 x 33	11"
30	61	1'-8"	2'-1"	3'-7"	2'-11"	2'-1"	3'-8"	3'-8"	2'-2"	L7x4x3/8	1'-7"
SPAN 19		A	B	C	D	E	F	G	H		
53		1'-11"	2'-1"	4'-1"	2'-3"	2'-10"	2'-3"	3'-4"	2'-2"	Bent Pl. 5/16 x 33	11"
55		1'-8"	2'-2"	2'-3"	3'-4"	2'-5"	2'-3"	3'-4"	2'-2"		
SPAN 22		A	B	C	D	E	F	G	H		
2		1'-8"	2'-1"	2'-6"	2'-10"	2'-2"	2'-5"	3'-0"	2'-2"		
4		1'-8"	2'-1"	2'-5"	3'-0"	2'-2"	2'-5"	3'-0"	2'-2"		
8		1'-8"	2'-1"	2'-5"	3'-0"	2'-2"	2'-6"	2'-10"	2'-2"		



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION

DATE

PREPARED BY

BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026

DESIGNED BY: L. Bridwell

DETAILED BY: L. Bridwell

CHECKED BY

D. Richardson

S. Ribble

SIDEWALK REMOVAL/REPLACEMENT

CROSSING
Ohio River

ROUTE

US-31E

ITEM NO.

5-10165

SHEET NO.

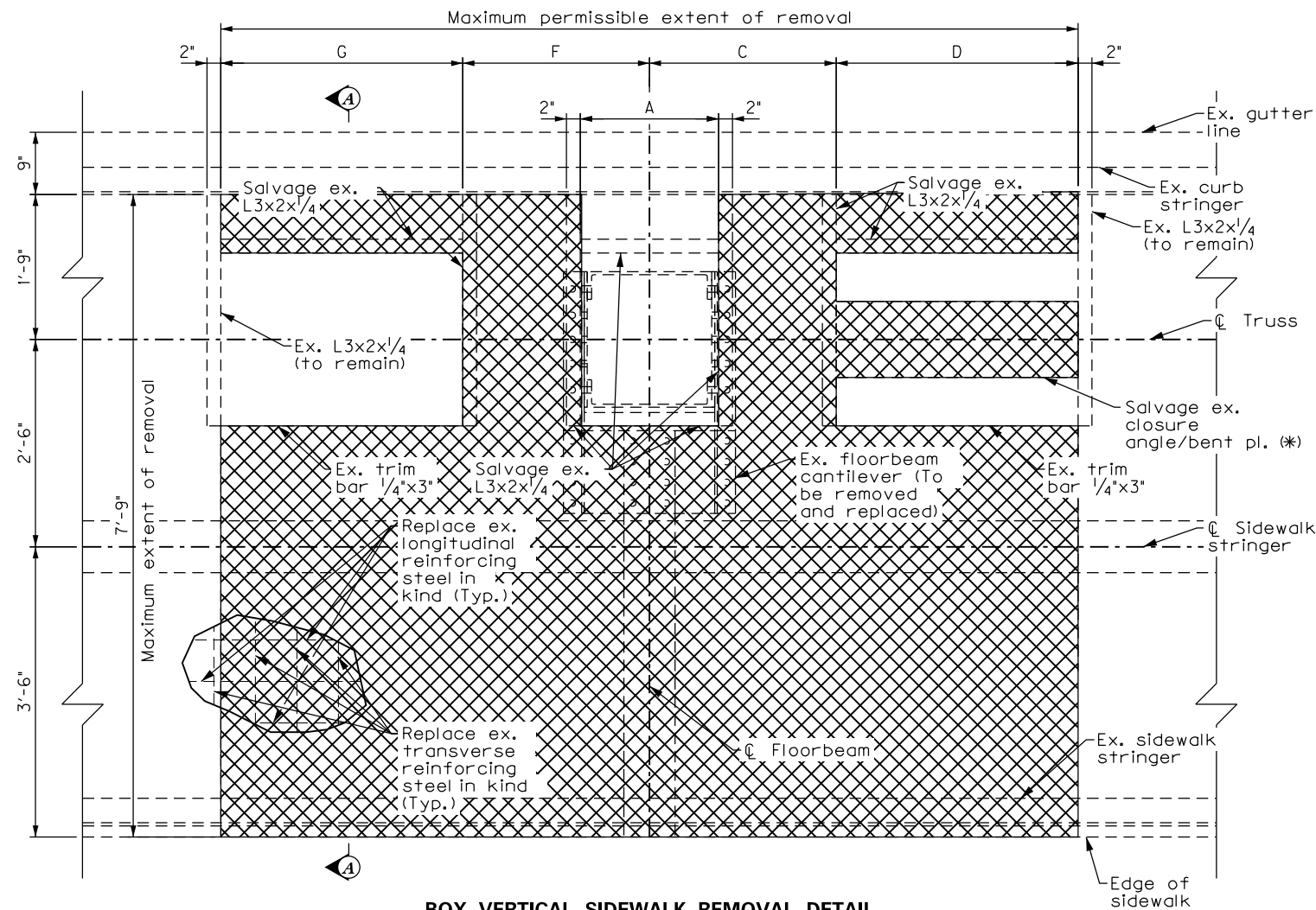
M14

COUNTY OF

JEFFERSON

DRAWING NUMBER

29060



BOX VERTICAL SIDEWALK REMOVAL DETAIL

Downstream truss facing east
 Dimensions as shown @ FB 6, 14, 28
 Dimensions opposite hand @ FB 55, 63, 77, 85
 (*) = Closure Bent Pl. @ FB 14, 36, 63, 85 shown
 FB 6, 28, 55, 77 opposite hand

LEGEND:

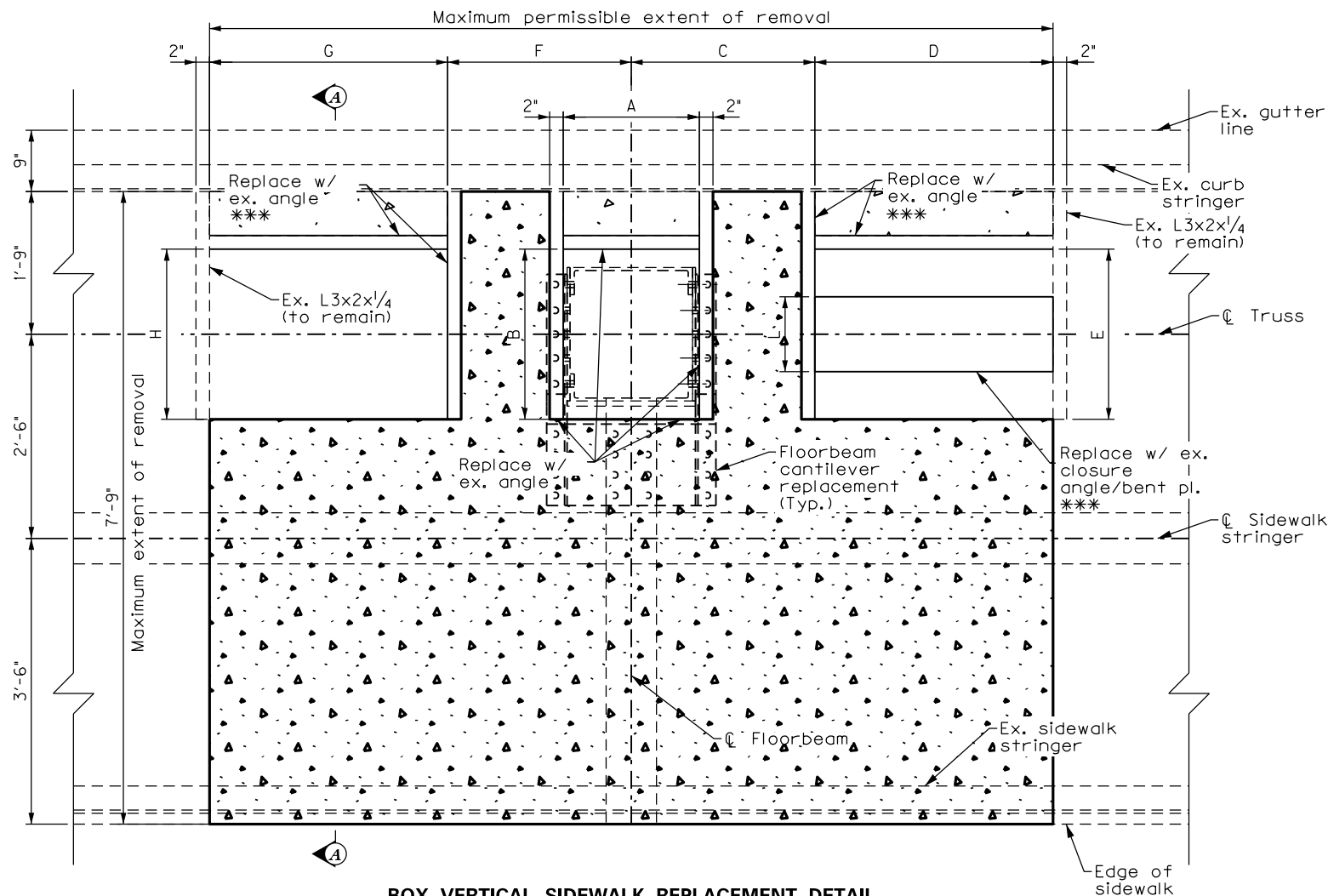
= Limits of removal

= New concrete

*** = With the permission of the Engineer, rather than salvaging the existing closure angles, trim bars, and bent plates in the sidewalk, the Contractor has the option to replace these angles, trim bars, and bent plates with new angles, trim bars, and bent plates at the same size and locations as the existing angles and plates. If the Contractor chooses this option and permission is granted by the Engineer, the cost of providing and installing new reinforcing steel will be at the Contractor's expense.

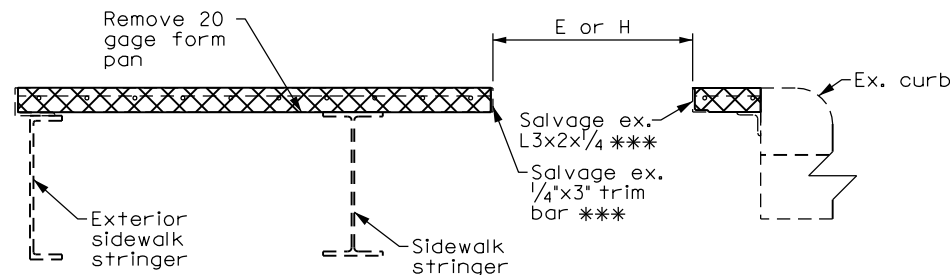
NOTES:

- 1) See the general notes and the Special Note for Sidewalk Floorbeam Connection Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) The Contractor shall field verify all relevant existing dimensions and number sizes.
- 3) See Sheet M14 for lettered dimensions.
- 4) The details on this sheet are provided to the Contractor for use if an alternative method of accessing the floorbeam cantilever repair locations is determined to be necessary. The Contractor shall coordinate with the Engineer on proposed locations.

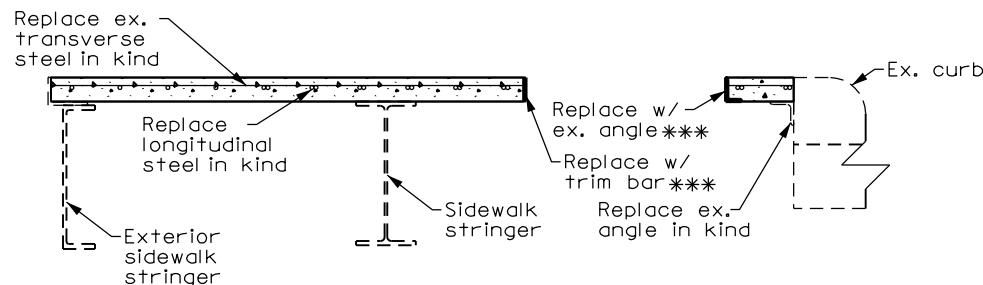


BOX VERTICAL SIDEWALK REPLACEMENT DETAIL

Downstream truss facing east
 Dimensions as shown: Spans 16-18 & 22
 Dimensions opposite hand: Spans 19-21



SECTION A-A EXISTING



SECTION A-A PROPOSED

BAR SIZE	
Dia.	Lap
1/2"	2'-5"
5/8"	3'-6"



COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS



REVISION

DATE

PREPARED BY
BURGESS & NIPLE
 Engineers ■ Architects ■ Planners

DATE: January 24th, 2026

DESIGNED BY: L. Bridwell

DETAILED BY: L. Bridwell

CHECKED BY

D. Richardson

S. Ribble

SIDEWALK REMOVAL/REPLACEMENT

CROSSING
 Ohio River

ROUTE

US-31E

ITEM NO.

5-10165

SHEET NO.

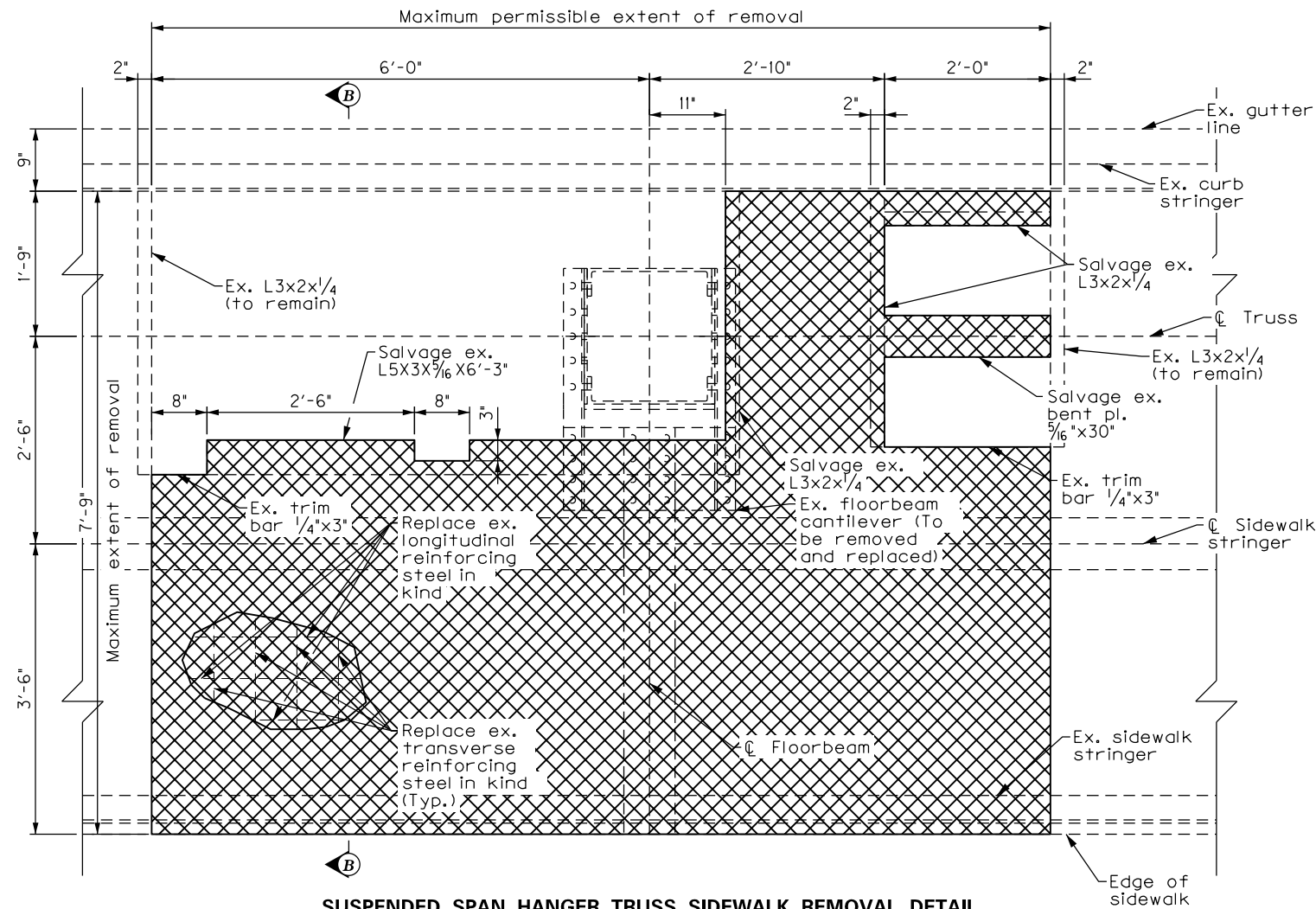
M15

COUNTY OF

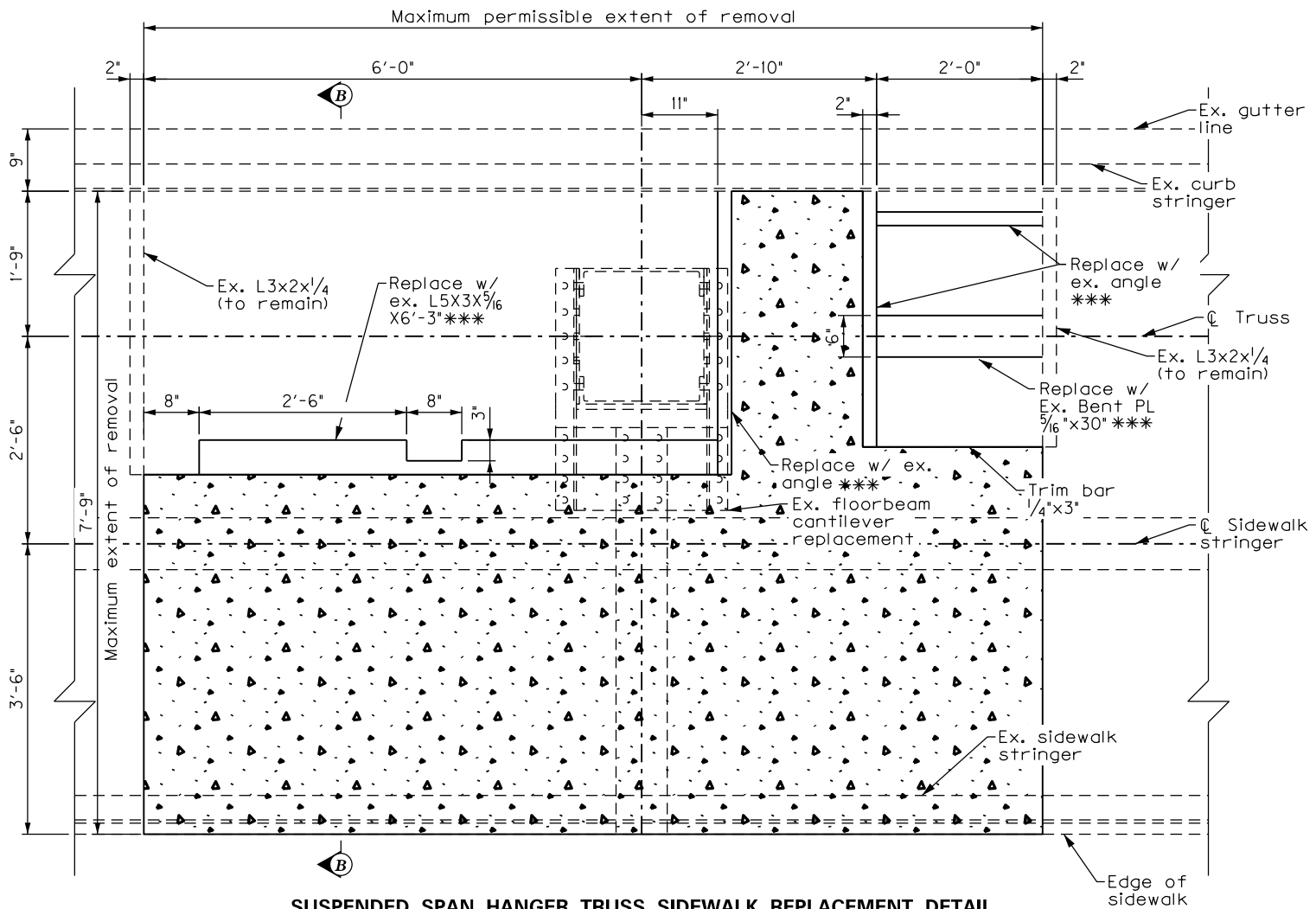
JEFFERSON

DRAWING NUMBER

29060





SUSPENDED SPAN HANGER TRUSS SIDEWALK REMOVAL DETAIL
Downstream truss facing east
FB 16 & 65 shown
FB 26 & 75 opposite hand



SUSPENDED SPAN HANGER TRUSS SIDEWALK REPLACEMENT DETAIL
Downstream truss facing east
FB 16 & 65 shown
FB 26 & 75 opposite hand

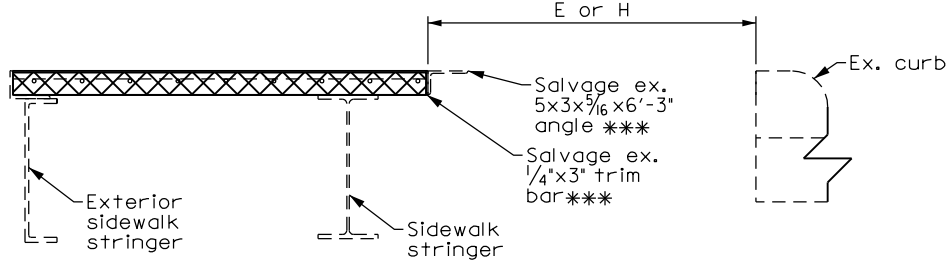
LEGEND:

-  = Limits of removal
-  = New concrete

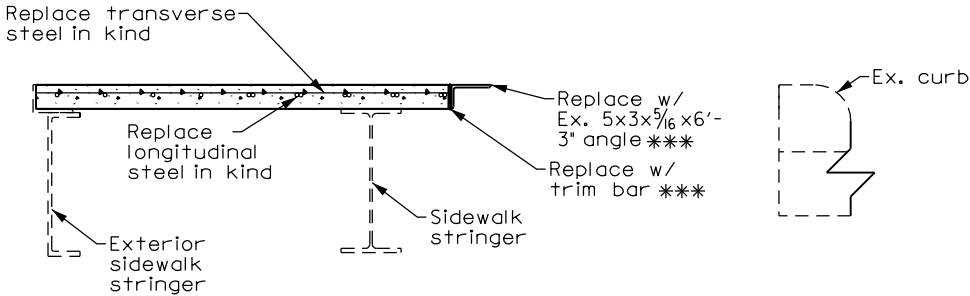
*** = With the permission of the Engineer, rather than salvaging the existing closure angles, trim bars, and bent plates in the sidewalk, the Contractor has the option to replace these angles, trim bars, and bent plates with new angles, trim bars, and bent plates at the same size and locations as the existing angles and plates. If the Contractor chooses this option and permission is granted by the Engineer, the cost of providing and installing new reinforcing steel will be at the Contractor's expense.

NOTES:

- 1) See the general notes and the Special Note for Sidewalk Floorbeam Connection Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) The Contractor shall field verify all relevant existing dimensions and number sizes.
- 3) See Sheet M14 for lettered dimensions.
- 3) The details on this sheet are provided to the Contractor for use if an alternative method of accessing the floorbeam cantilever repair locations is determined to be necessary. The Contractor shall coordinate with the Engineer on proposed locations.



SECTION B-B EXISTING



SECTION B-B PROPOSED

BAR SIZE	
Dia.	Lap
1/2"	2'-5"
5/8"	3'-6"



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY
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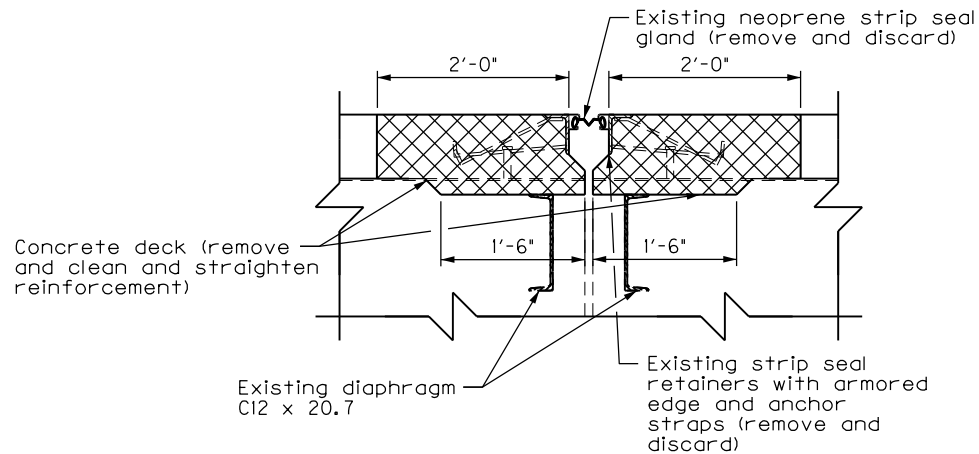
DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: L. Bridwell	D. Richardson
DETAILED BY: L. Bridwell	S. Ribble

SIDEWALK REMOVAL/REPLACEMENT
CROSSING
Ohio River

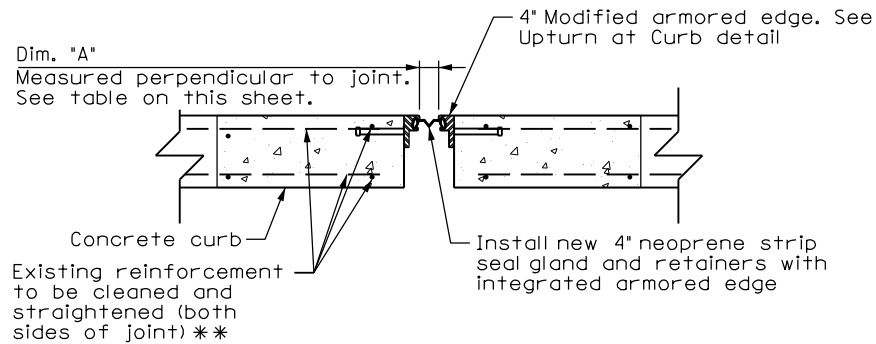
ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M16

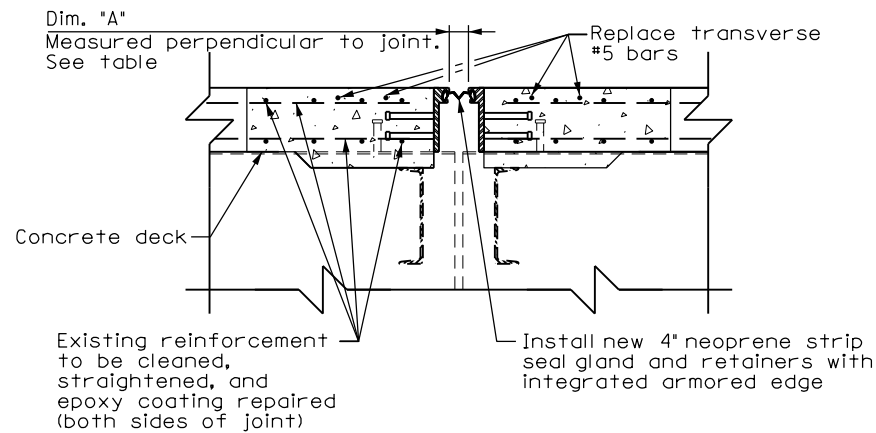
COUNTY OF
JEFFERSON
DRAWING NUMBER
29060



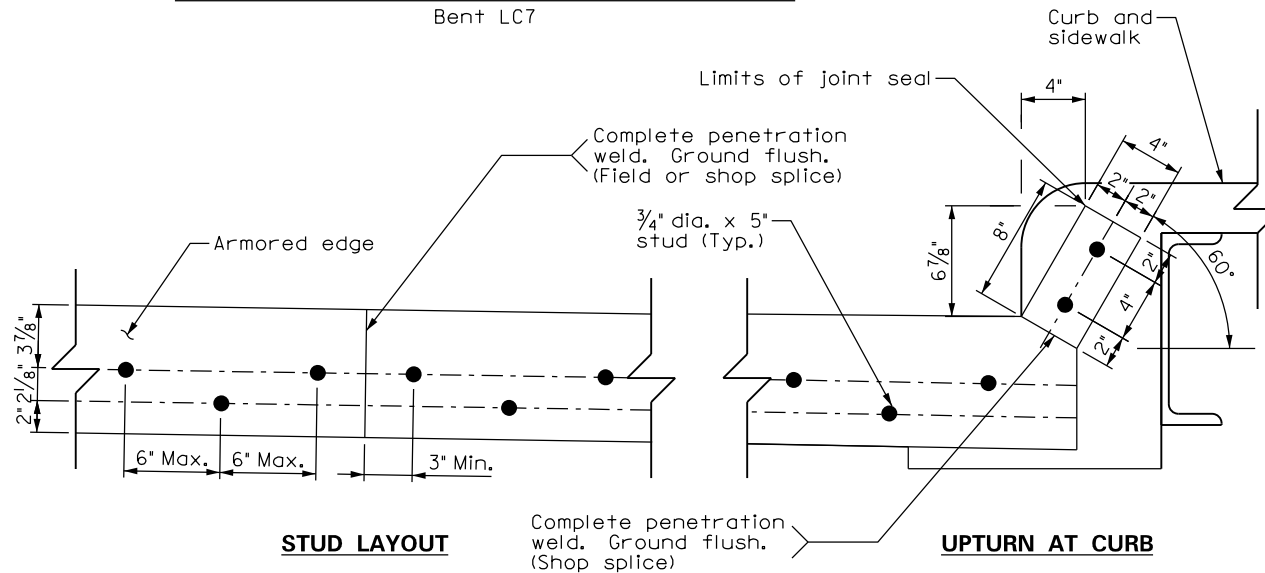
EXISTING STRIP SEAL JOINT SECTION
Bent LC7



STRIP SEAL JOINT REPLACEMENT SECTION IN CURB
Bent LC7

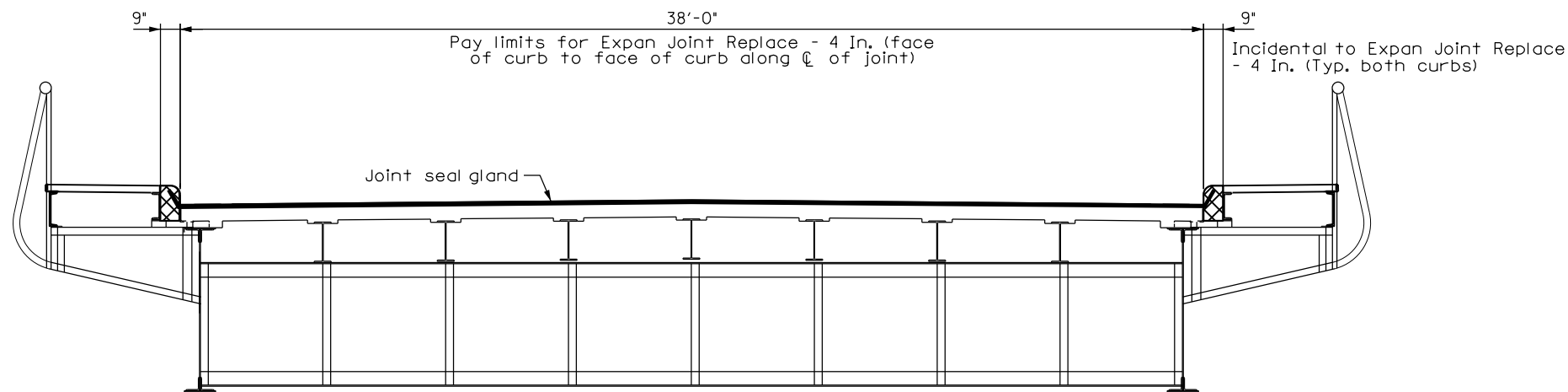


STRIP SEAL JOINT REPLACEMENT SECTION
Bent LC7



STUD LAYOUT

UPTURN AT CURB



TYPICAL SECTION (APPROACH SPANS SHOWN)
(Shear connectors not shown for clarity)

NOTES:

- 1) See the general notes and the Special Note for Bridge Joint Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) The Contractor shall field verify all relevant existing dimensions and member sizes.
- 3) See Sheet M6 for the location of the strip seal joint replacement.
- 4) The Contractor shall place the strip seal gland in one continuous piece after completion of the armor installation.

LEGEND:

- = Joint seal gland
- = Limits of removal
- = New concrete

TEMPERATURE ADJUSTMENT (LC7)	
TEMP. (Deg. F)	Dim A (in.)
30	2 5/16
40	2 1/4
50	2 1/8
60	2
70	1 7/8
80	1 3/4
90	1 11/16
100	1 9/16



STRIP SEAL JOINT AT BENT LC7



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: D. Richardson	L. Bridwell
DETAILED BY: D. Richardson	L. Bridwell

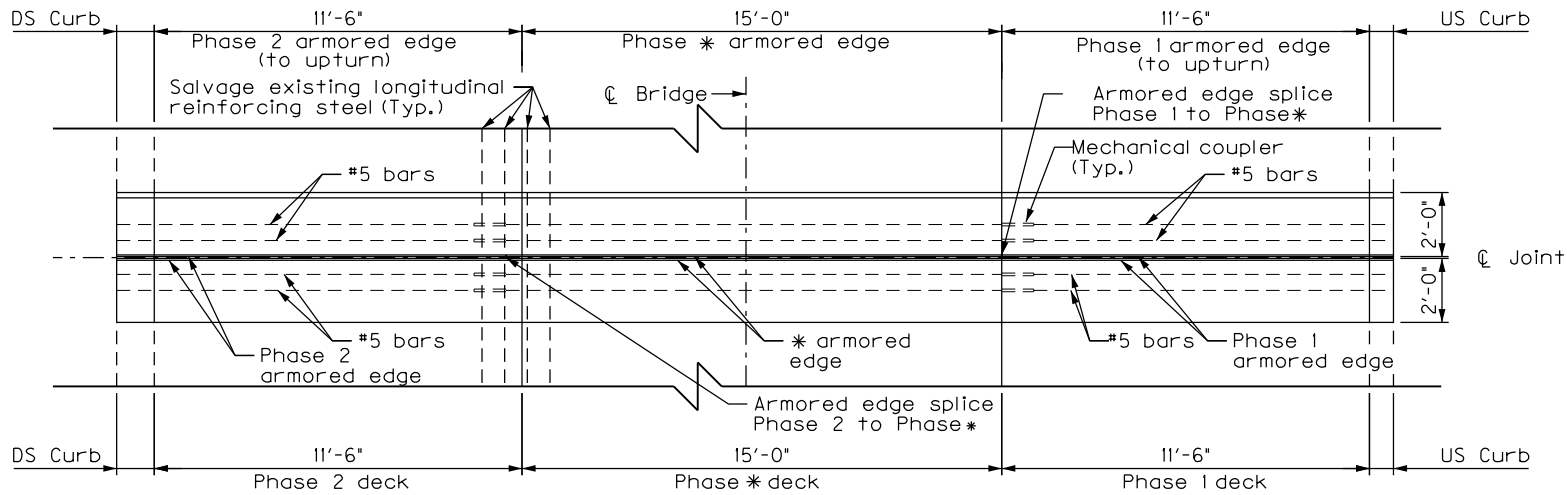
JOINT REPLACEMENT DETAILS

CROSSING
Ohio River

ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M17

COUNTY OF
JEFFERSON
DRAWING NUMBER
29060





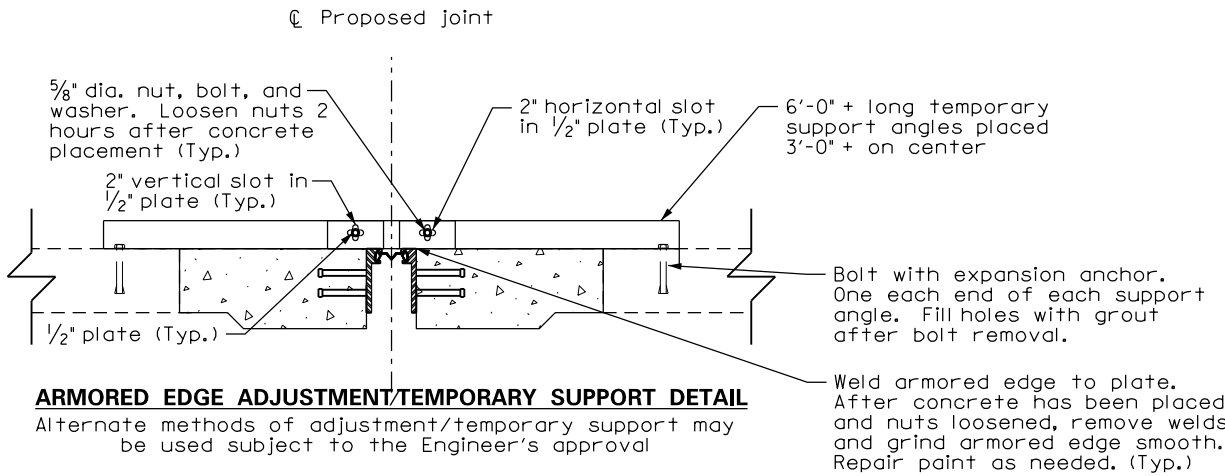
PLAN – STRIP SEAL JOINT AT LC7 – PROPOSED

NOTES:

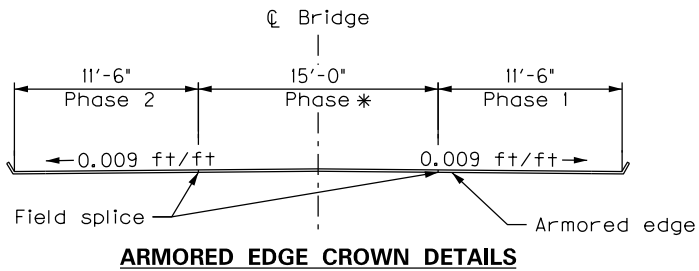
- 1) See the general notes and the Special Note for Bridge Joint Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) The Contractor shall field verify all relevant existing dimensions and member sizes.
- 3) See Sheet M6 for the location of the strip seal joint replacement.

LEGEND:

-  = Joint seal gland
-  = New concrete
- * = Phasing that will occur during Thunder over Louisville weekend. See Special Note for Expansion Joint Replacement - 4 In.



ARMORED EDGE ADJUSTMENT/TEMPORARY SUPPORT DETAIL
Alternate methods of adjustment/temporary support may be used subject to the Engineer's approval




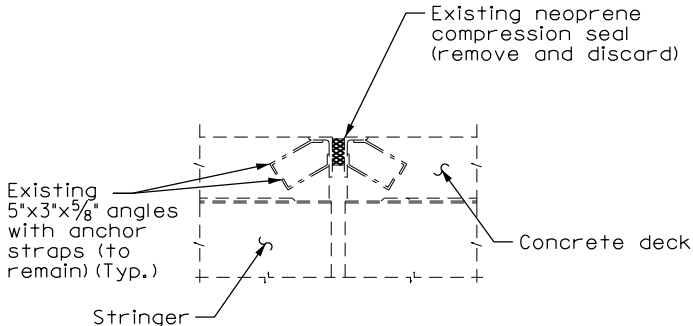
ARMORED EDGE CROWN DETAILS

NOTES:

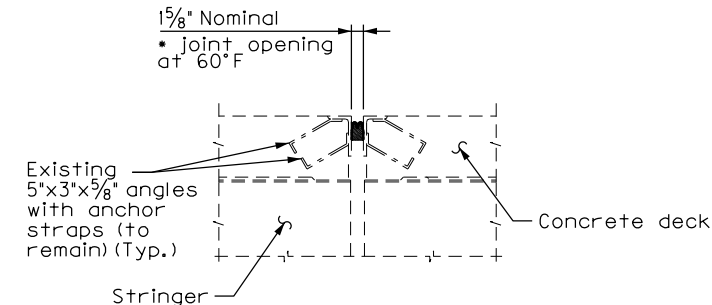
- 1) See the general notes and the Special Note for Bridge Joint Seal Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) The Contractor shall field verify all relevant existing dimensions and member sizes.
- 3) See Sheet M6 for the locations of the compression seal replacements.

LEGEND:

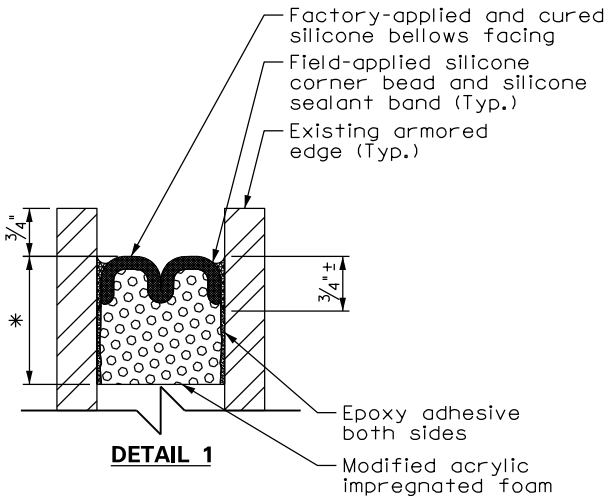
 = Joint seal



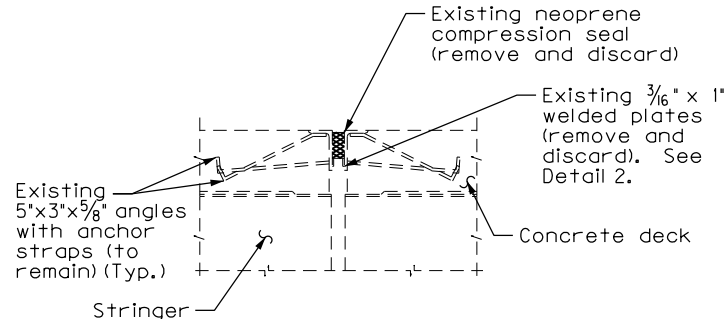
EXISTING NEOPRENE EXPANSION JOINT SECTION
(Located at LC2 and LC4)



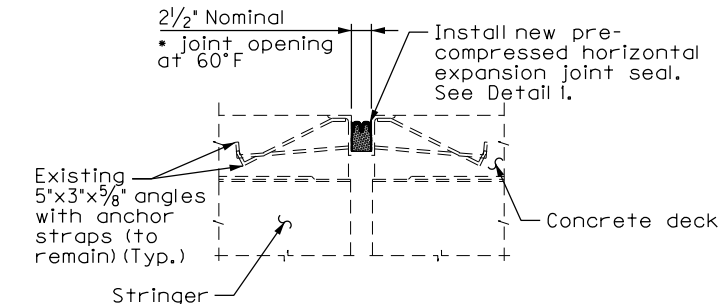
NEOPRENE EXPANSION JOINT SEAL REPLACEMENT SECTION
(Located at LC2 and LC4)



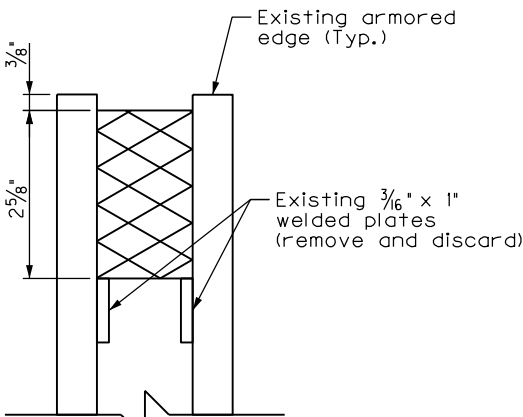
DETAIL 1



EXISTING NEOPRENE EXPANSION JOINT SECTION
(Located at LC6)



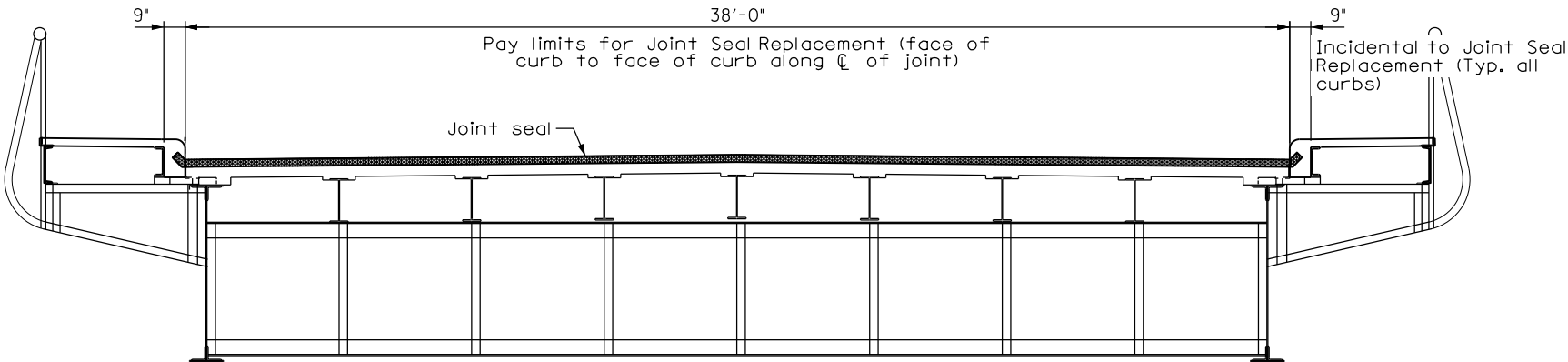
NEOPRENE EXPANSION JOINT SEAL REPLACEMENT SECTION
(Located at LC6)



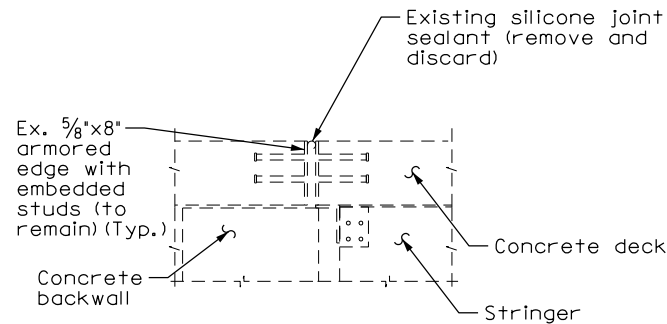
DETAIL 2



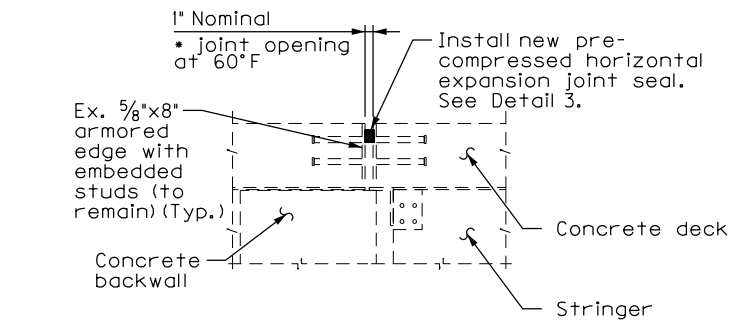
COMPRESSION JOINT AT BENT LC4
(Typ. of compression joints)



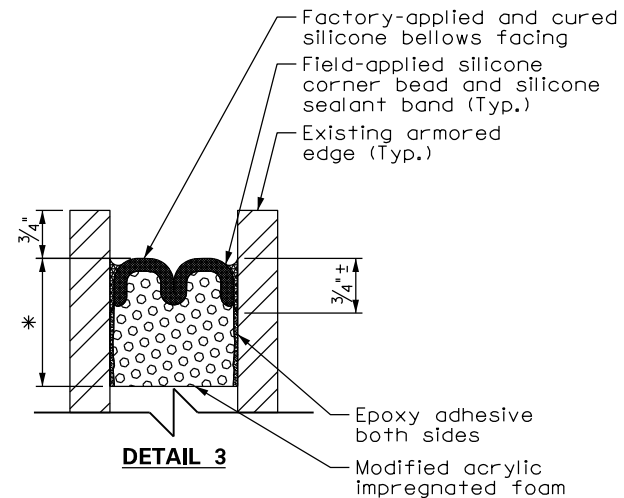
TYPICAL SECTION (APPROACH SPANS SHOWN)
(Shear connectors not shown for clarity)



EXISTING POURABLE JOINT SEAL SECTION
(Located at the North Abutment)



NEOPRENE EXPANSION JOINT SEAL REPLACEMENT SECTION
(Located at the North Abutment)




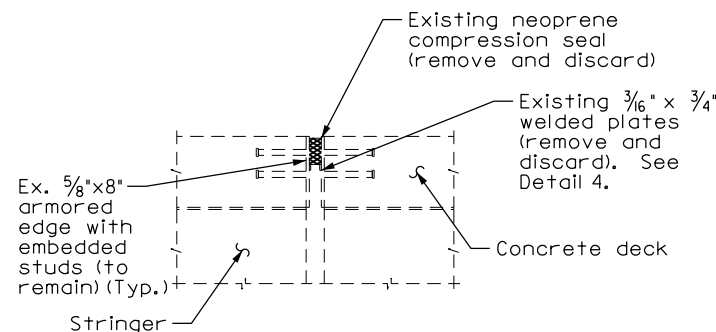
DETAIL 3

NOTES:

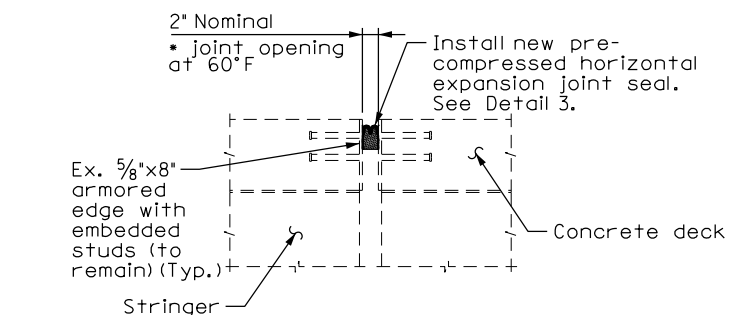
- 1) See the general notes and the Special Note for Bridge Joint Seal Replacement for additional material and construction specifications, construction procedures, and pay items.
- 2) The Contractor shall field verify all relevant existing dimensions and member sizes.
- 3) See Sheet M6 for the locations of the compression seal replacements.

LEGEND:

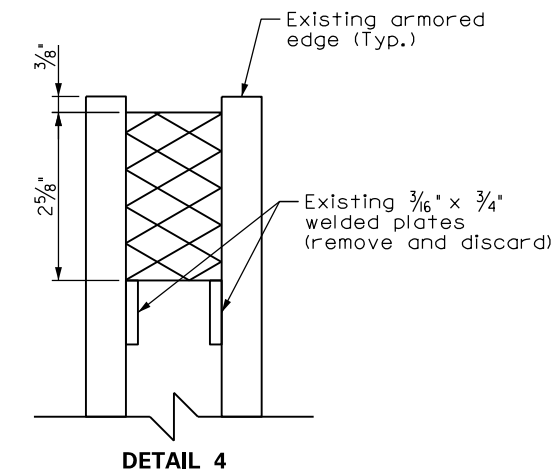
 = Joint seal



EXISTING NEOPRENE EXPANSION JOINT SECTION
(Located at Pier 8, JC4, JC2, and JC1)



NEOPRENE EXPANSION JOINT SEAL REPLACEMENT SECTION
(Located at Pier 8, JC4, JC2, and JC1)



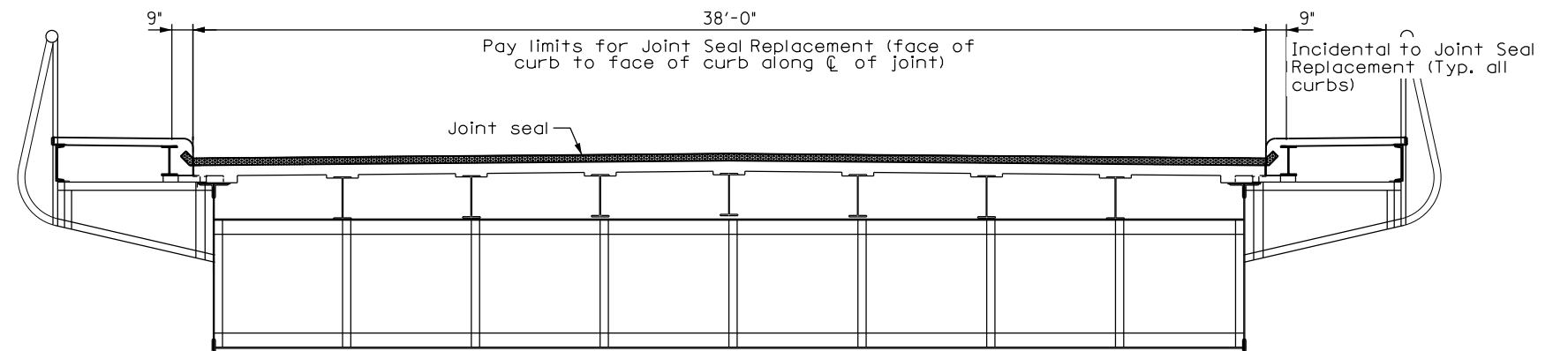
DETAIL 4



COMPRESSION JOINT AT BENT JC4
(Typ. of compression joints)



POURABLE JOINT AT NORTH ABUTMENT



TYPICAL SECTION (APPROACH SPANS SHOWN)
(Shear connectors not shown for clarity)



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



USER: Bridwell

REVISION

DATE

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026

DESIGNED BY: L. Bridwell

DETAILED BY: L. Bridwell

CHECKED BY

D. Richardson

D. Richardson

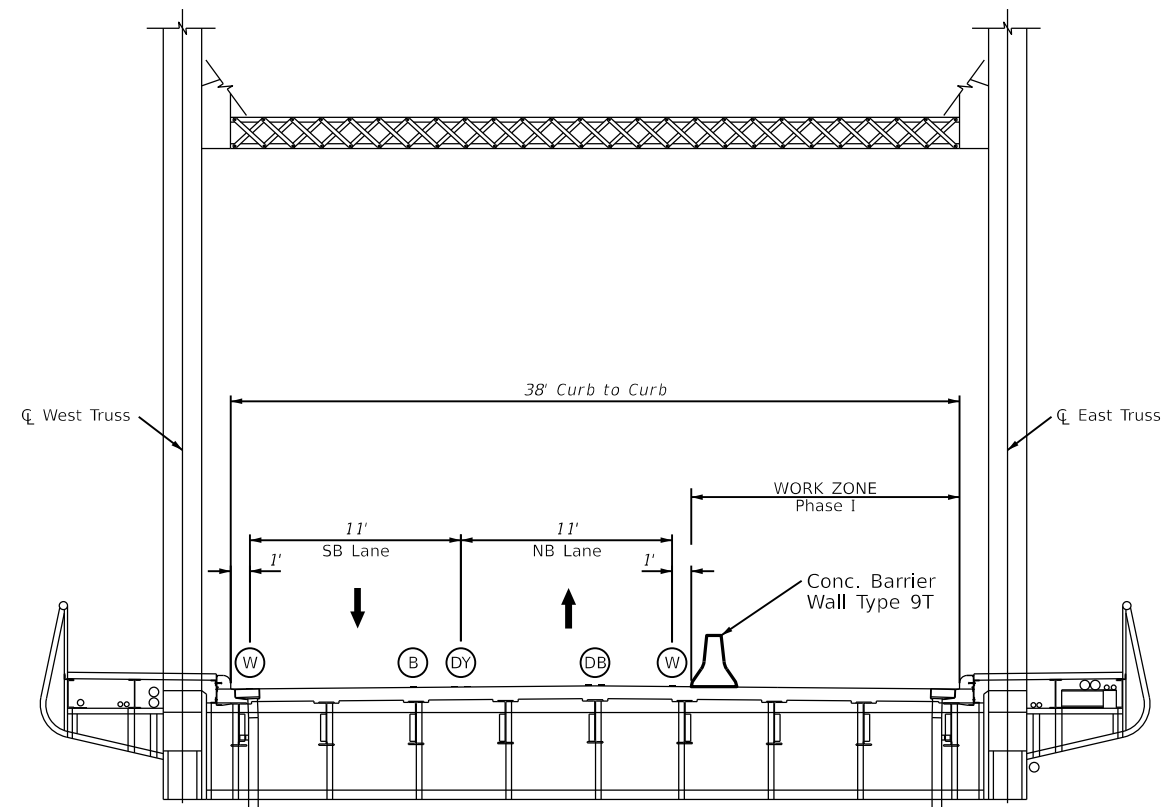
JOINT SEAL REPLACEMENT DETAILS

CROSSING
Ohio River

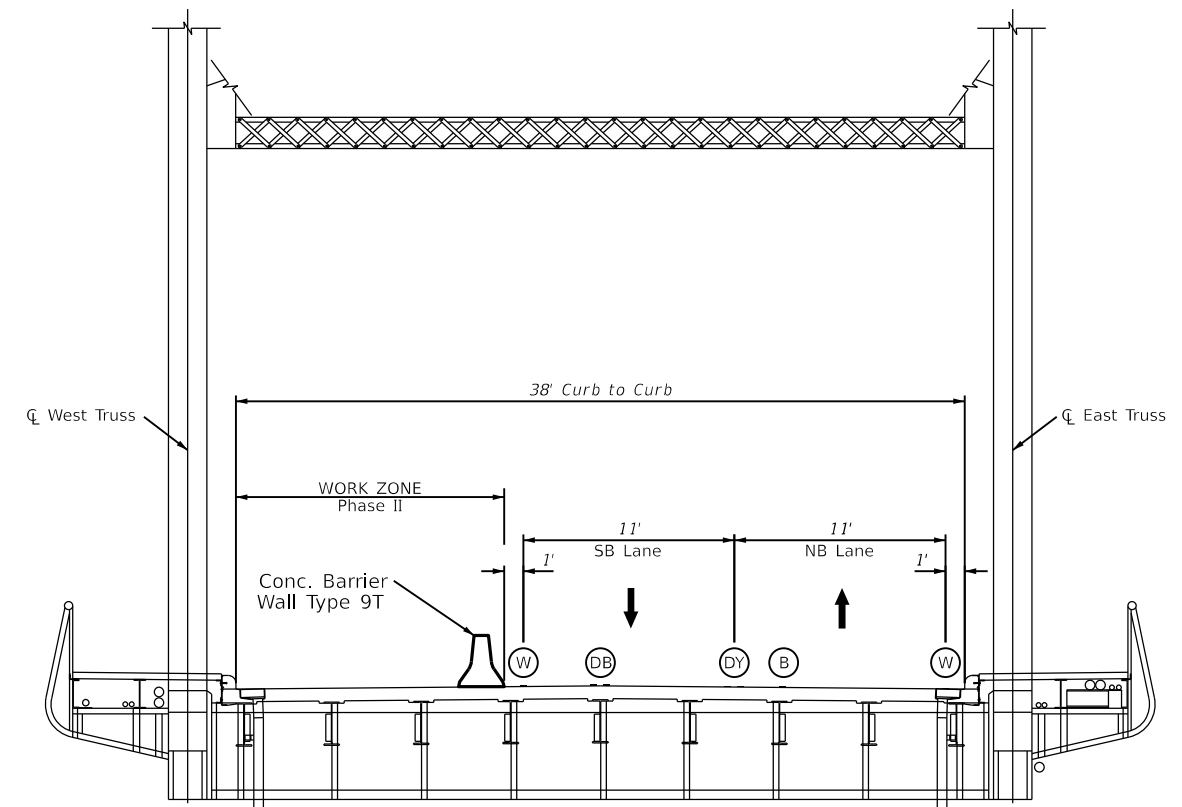
ROUTE
US-31E

ITEM NO.
5-10165
SHEET NO.
M20

COUNTY OF
JEFFERSON
DRAWING NUMBER
29060



MAINTENANCE OF TRAFFIC PHASE I



MAINTENANCE OF TRAFFIC PHASE II

- (DY) Double Solid Yellow Temporary Removable Pavement Tape
- (W) Solid White Temporary Removable Pavement Tape
- (B) Black Temporary Removable Pavement Tape
- (DB) Double Black Temporary Removable Pavement Tape



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY
BURGESS & NIPLE
Engineers ■ Architects ■ Planners

DATE: January 24th, 2026	CHECKED BY:
DESIGNED BY: C. Villier	S. Ribble
DETAILED BY: C. Villier	S. Ribble

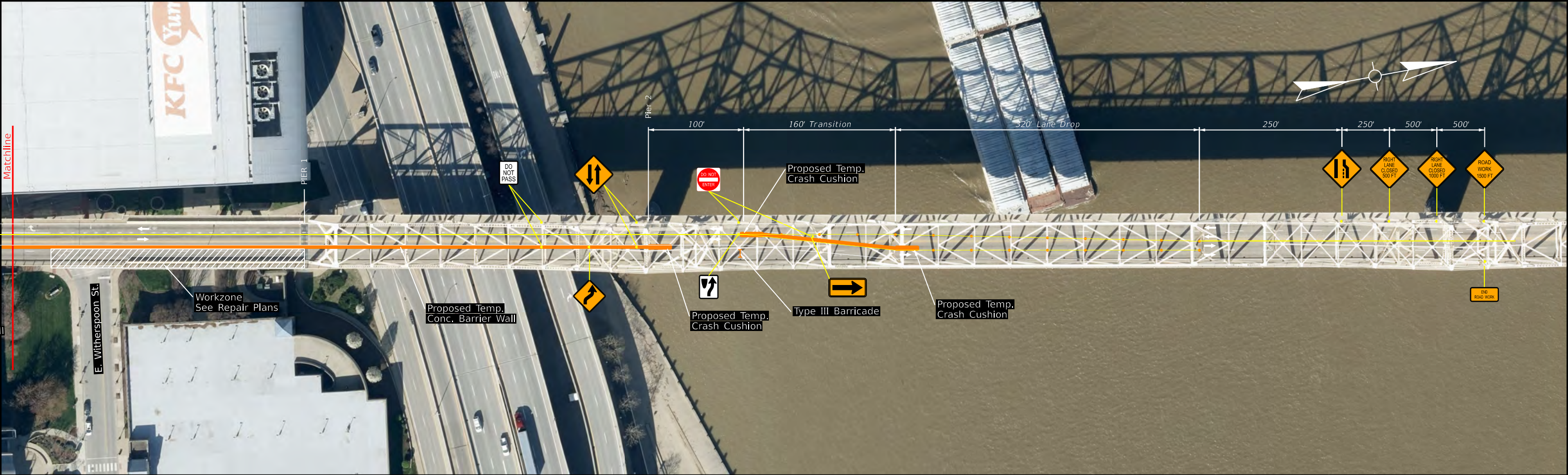
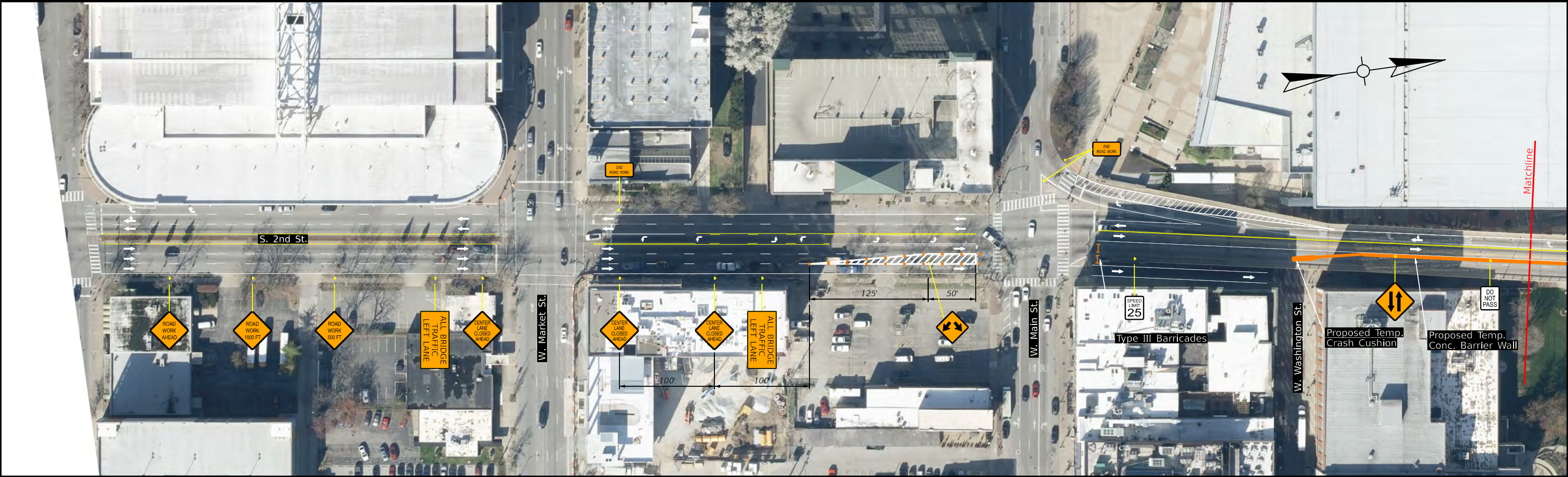
MAINTENANCE OF TRAFFIC - DETAIL

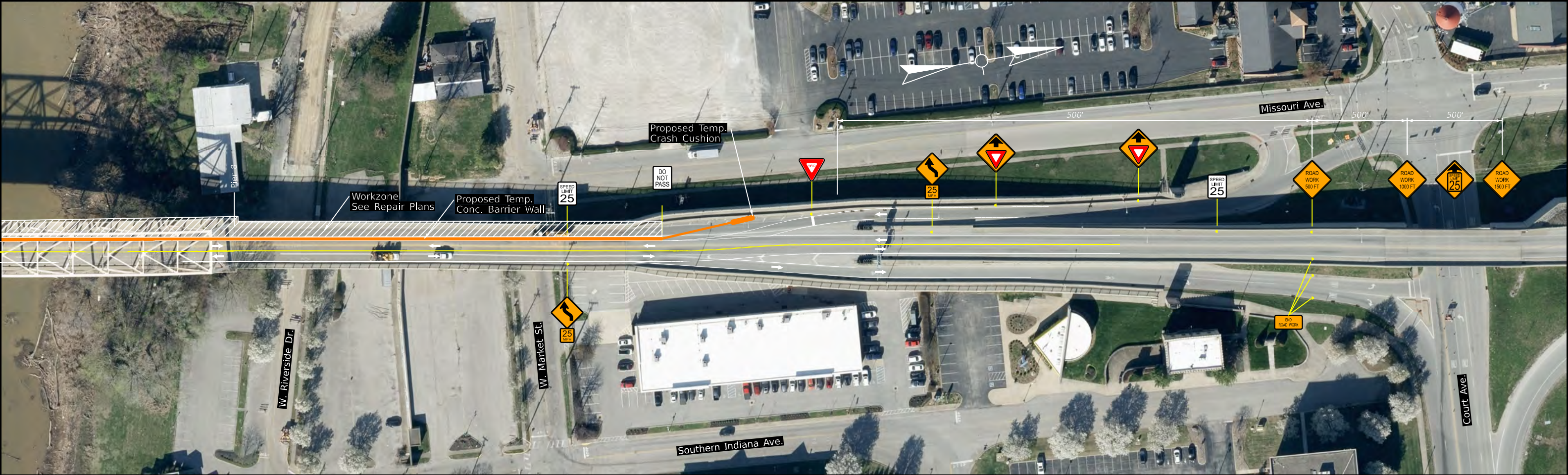
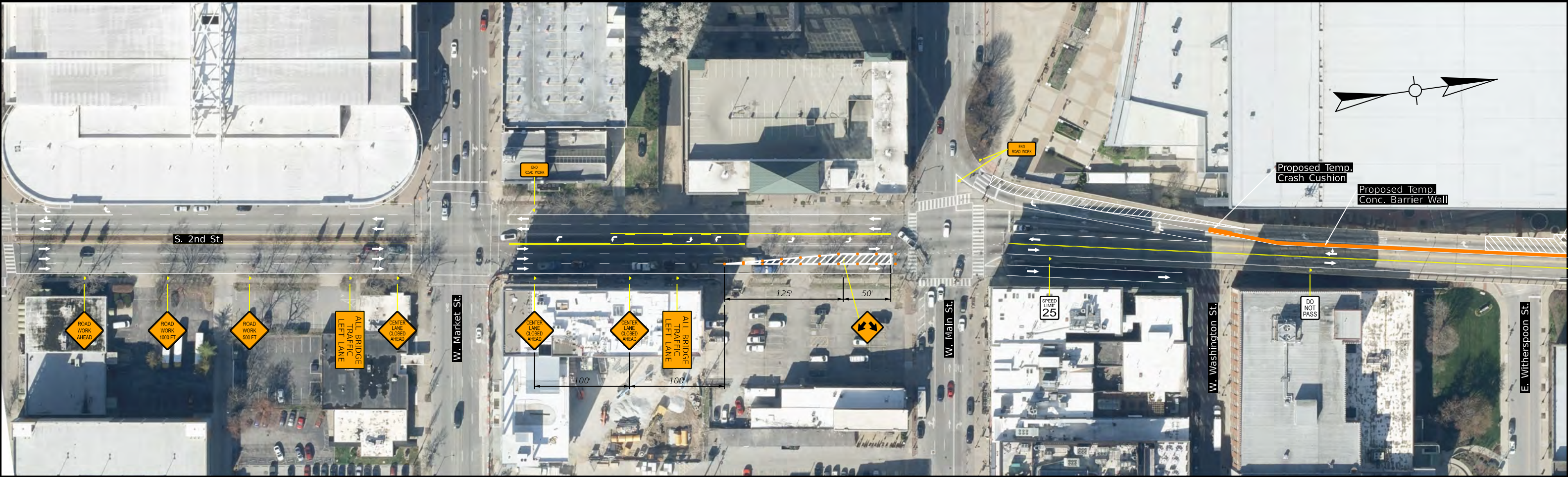
CROSSING
Ohio River

ROUTE
US-31E

ITEM NO. 5-10165
SHEET NO. M21

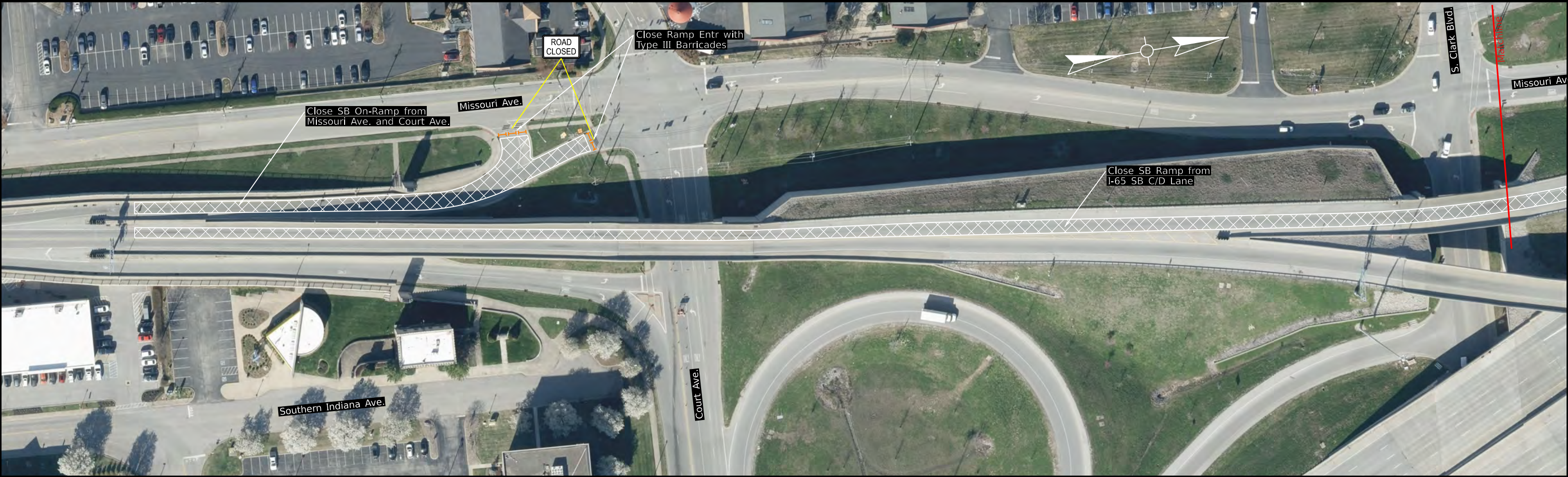
COUNTY OF JEFFERSON
DRAWING NUMBER 29060









Note: Cover all temporary signage which does not apply during closure.



 <div>COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS</div>	 <div>KENTUCKY TRANSPORTATION CABINET</div>	REVISION	DATE	PREPARED BY BURGESS & NIPLE Engineers ■ Architects ■ Planners	DATE: January 24th, 2026	CHECKED BY	MOT – INDIANA APPROACH CLOSURE CROSSING Ohio River	ROUTE	ITEM NO.	COUNTY OF
					DESIGNED BY: C. Villier	S. Ribble		US-31E	5-10165	JEFFERSON
					DETAILED BY: C. Villier	S. Ribble			SHEET NO. M25	DRAWING NUMBER 29060