06-11-2021 LETTING ITEM 121

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 600 (IL140 2018)

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAS 2793 (OLD ILL 140) D7 BRIDGE REPAIRS 2022-5 PROJECT STP-B7G0(377) **BRIDGE REPAIR FAYETTE COUNTY**

C-97-124-20

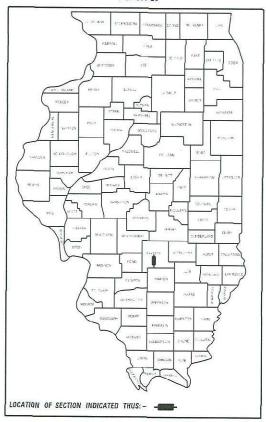


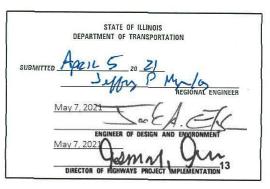
CONTRACT NO. 74A30

PROJECT ENGINEER: DEBRA G. BARRETT PROJECT MANAGER: AARON J. METTE

GROSS LENGTH = 249 FT. = 0.047 MILE NET LENGTH = 249 FT. = 0.047 MILE

* 10 + 1 = 11 TOTAL SHEETS





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REV. - MS

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAS 2793 (ILL-140) IN FAYETTE COUNTY, OVER HURRICANE CREEK, 0.9 MILES SOUTHEAST OF US 40

THE WORK ON THIS PROJECT CONSISTS OF BRIDGE JOINT REPAIR, BEARINGS REPLACEMENT AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THIS WORK WILL BE COMPLETED UTILIZING A ROAD CLOSURE WITH A MARKED ROUTE DETOUR.

INDEX OF SHEETS

SHEET NO. ITEM

1 COVER SHEET
2 GENERAL NOTES, INDEX OF SHEETS & LIST OF STANDARDS
3 SUMMARY OF QUANTITIES
4 DETOUR MAP
5-10A BRIDGE PLAN DETAILS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08 001001-02 001006 701001-02	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF INCH AND FOOT OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701001-02 701006-05 701901-08	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE TRAFFIC CONTROL DEVICES
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL HIGHWAYS

REV. - MS

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/5/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

GENERAL NOTES, INDEX OF SHEETS						F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
LIST OF STANDARDS					2793	D7 BRIDGE REPAIRS	2022-5	FAYETTE	10	2	
LIST OF STANDARDS									CONTRACT	NO. 74	1A30
SHEET	OF	SHEETS	STA		TO STA		LILLINOI	C EED A	ID BROIECT		

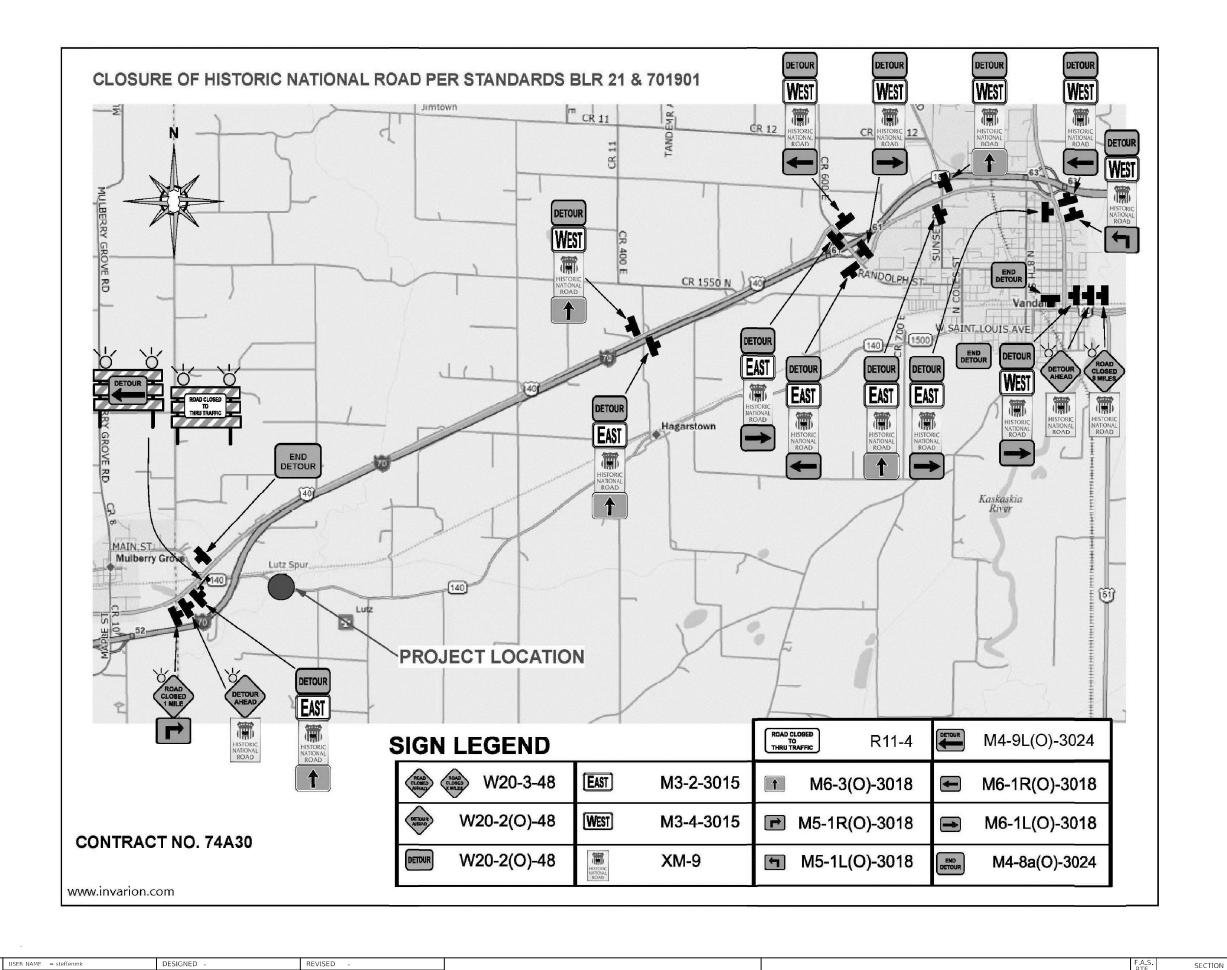
80% FED 20% STATE

CLIMANA DV OF OLIMAITITIES			CONS	RUCTION TYPE CODE		CLIMANAADV	\triangle	\bigcirc			CUI	STRUCTION TYP	E CODE
SUMMARY OF QUANTITIES		TOTAL	0013			SUMMARY	UF	QUANTITIES	T	TOTAL	0013		
ITEM	UNIT	QUANTITIES			CODE NO		ITEM		UNIT	QUANTITIES			
CONCRETE REMOVAL	CU YD	9.2	9.2										
												İ	
CONCRETE SUPERSTRUCTURE	CU YD	9	9										
	<u> </u>											1	
DDOTTOT IVE COLT	60. 40	26	26									<u> </u>	
PROTECTIVE COAT	Su tu	26	26										
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1440	1440										
REINFORCEMENT BARS, EPOXY COATED	POUND	1120	1120										
PREFORMED JOINT STRIP SEAL	FOOT	68	68										
FLASTOMERIC REARING ASSEMBLY. TYPE I	FACH	10	10										
ELASTOMENTO BEANTING ASSEMBLT, THE T	LACII	10											
ANCHOR BOLTS, 1"	EACH	20	20										
MOBILIZATION	L SUM	1	1										
CHANGEABLE MESSAGE SIGN	CAL DA	28	28										
TRAFFIC CONTROL AND PROTECTION. STANDARD BLR	L SUM	1	1										
	<u> </u>												
JACK AND REMOVE EXISTING BEARINGS	EACH	10	10			1							
DETOUR SIGNING	L SUM	1	1										
	CONCRETE REMOVAL CONCRETE SUPERSTRUCTURE PROTECTIVE COAT FURNISHING AND ERECTING STRUCTURAL STEEL REINFORCEMENT BARS, EPOXY COATED PREFORMED JOINT STRIP SEAL ELASTOMERIC BEARING ASSEMBLY, TYPE I ANCHOR BOLTS, 1" MOBILIZATION CHANGEABLE MESSAGE SIGN	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR L SUM TRAFFIC CONTROL AND PROTECTION, STANDARD BLR L SUM JACK AND REMOVE EXISTING BEARINGS EACH L VPD CU YD Cu Y	TITEM UNIT OUANTITIES CONCRETE REMOVAL CU YD 9.2 CONCRETE SUPERSTRUCTURE CU YD 9 PROTECTIVE COAT SO YD 26 FURNISHING AND ERECTING STRUCTURAL STEEL POUND 1440 REINFORCEMENT BARS, EPOXY COATED POUND 1120 PREFORMED JOINT STRIP SEAL FOOT 68 ELASTOMERIC BEARING ASSEMBLY, TYPE I EACH 10 ANCHOR BOLTS, 1" EACH 20 MOBILIZATION L SUM 1 CHANGEABLE MESSAGE SIGN CAL DA 28 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR L SUM 1 Z1 JACK AND REMOVE EXISTING BEARINGS EACH 10	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR L SUM ICONCRETE REMOVAL CU YD 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.	ITEM	COMERCE REMOVAL	CONCRETE REMOVAL	CONCRETE REMOVAL	CONCRETE REVOVAL	THE	CONCRETE BEMOVAL	Conceine Flavour	Control Cont

REV. - MS

	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT DATE = 4/5/2021	DATE -	REVISED -

SCALE:



DRAWN

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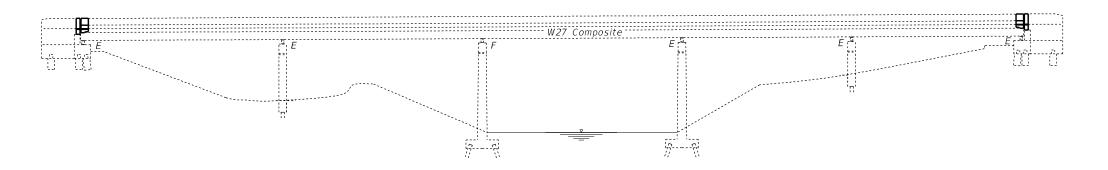
REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

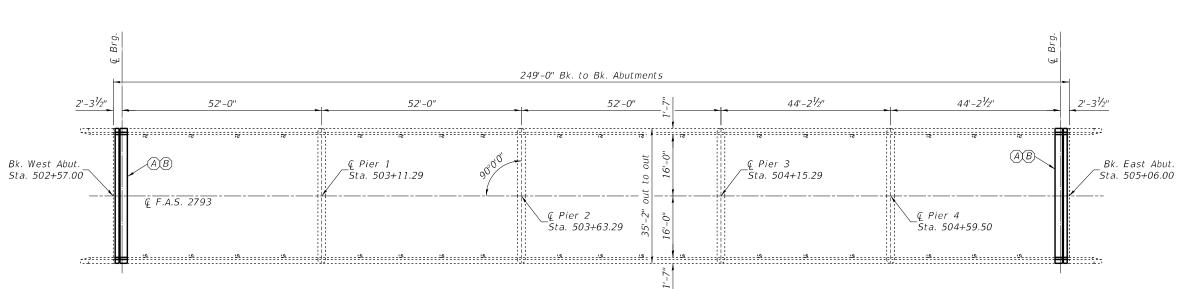
DETOUR SIGNING 2793 D7 BRIDGE REPAIRS 2022-5 FAYETTE 10 4 SHEET 1 OF 1 SHEETS STA.

CONTRACT NO. 74A30 D7 BRIDGE REPAIRS 2022-5

EXISTING STRUCTURE: SN 026-0089, built in 1983, is a 5 span, weathering steel multi-beam bridge carrying FAS-2793 (Old ILL-140) over Hurricane Creek. The proposed project consists of replacement of the expansion joints with new strip seals, and bearing replacement at abutments with new elastomeric bearings.







ELEVATION

PLAN

- (A) Remove Existing Joint and Construct Strip Seal Expansion Joint
- (B) Remove Existing Abutment Bearings and Install new Elastomeric Bearings

SECTION

D7 BRIDGE REPAIRS 2022-5 FAYETTE 10 5

CONTRACT NO. 74A30

USER NAME = steffenmk	DESIGNED - T. Walk DRAWN - T. Walk	REVISED -	STATE OF ILLINOIS	GENERAL PLAN & ELEVATION						RTE.	_
PLOT SCALE = 100.0000 ' / in.	CHECKED - D. Macklin	REVISED -	DEPARTMENT OF TRANSPORTATION			S.N	. 026–00	189		2793	_
PLOT DATE = 4/5/2021	DATE - July 2020	REVISED -		SCALE:	SHEET 1	OF 6	SHEETS	STA.	TO STA.		_

 $\frac{\textit{DECK CROSS SECTION}}{\textit{Looking East}}$

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnishedat the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced with an approved bar splicer or anchorage system. Cost included with CONCRETE REMOVAL.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50 $^{\circ}$ F.

Removal and reinstallation of the guardrail will be necessary for construction of the expansion joints. The existing guardrail sections shall be reused. All embedded anchors that are within the concrete removal area shall be cleaned and incorporated in the new construction or new approved alternatives shall be supplied and installed. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

Protective Coat to be applied to areas of new concrete only.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	9.2
Concrete Superstructure	Cu. Yd.	9.0
Reinforcement Bars, Epoxy Coated	Pound	1,120
Preformed Joint Strip Seal	Foot	68
Protective Coat	Sq. Yd.	26
Jack & Remove Existing Bearings	Each	10
Elastomeric Bearing Assembly, Type I	Each	10
Anchor Bolts, 1"Ø	Each	20
Furnishing and Erecting Structural Steel	Pound	1440



Expires 11-30-2022

05/06/2021

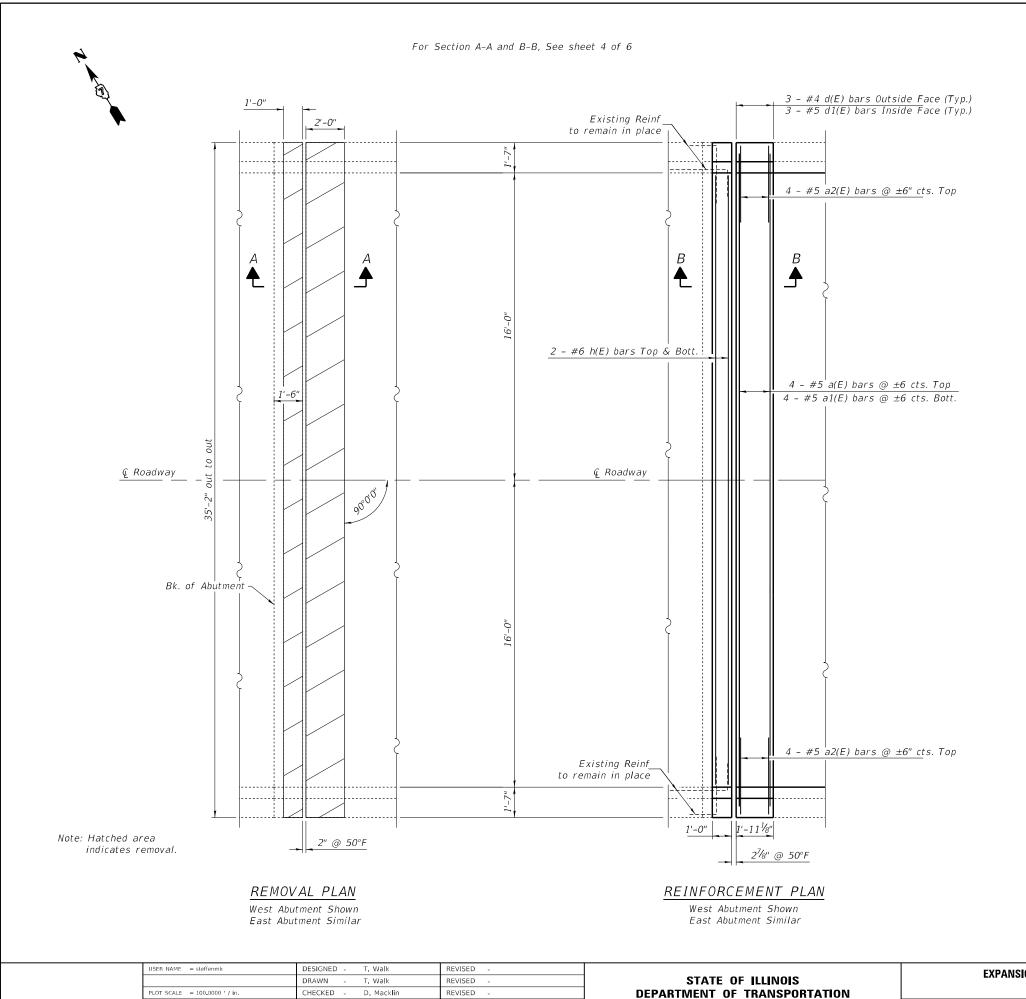
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USER NAME = steffenmk	DESIGNED	-	T. Wa l k	REVISED	-	ĺ
	DRAWN	-	T. Walk	REVISED	-	ı
PLOT SCALE = 100.0000 / in.	CHECKED	-	D. Macklin	REVISED	-	l
PLOT DATE = 4/5/2021	DATE	-	Ju l y 2020	REVISED	-	ı

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 GENERAL NOTES
 & BILL OF MATERIAL
 F.A.S RTE.
 SECTION
 COUNTY SHEETS NO.
 SHEET SHEETS NO.

 S.N. 026—0089
 2793
 D7 BRIDGE REPAIRS 2022-5
 FAYETTE
 10
 6

 SHEET 2
 OF 6
 SHEETS STA.
 TO STA.
 ILLINGIS FED. AID PROJECT

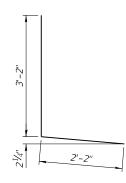


PLOT DATE = 4/5/2021

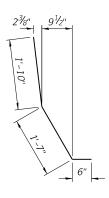
July 2020

DATE

REVISED



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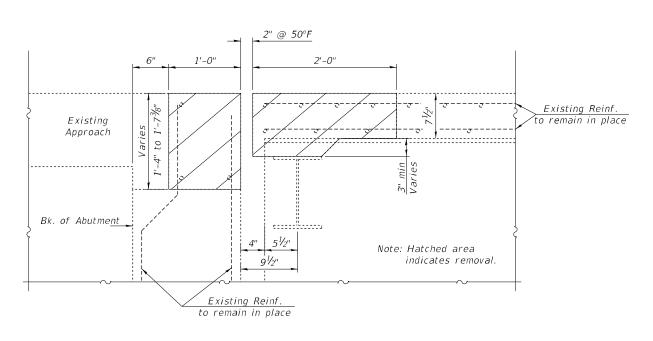
<u>BAR d1(E)</u>

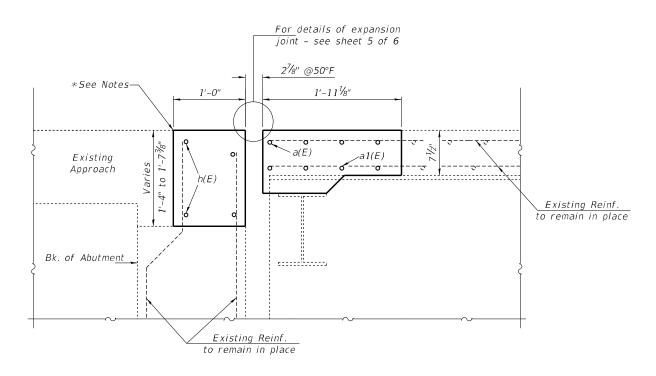
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	34'-0"	
a1(E)	8	#5	34'-6"	
a2(E)	16	#5	4'-0''	
d(E)	12	5'-4''	L	
d1(E)	12	3'-11"	l	
h(E)	8	#6	31'-9"	
	ITEM		UNIT	QUANTITY
Concrete	Remova	I	Cu. Yd.	9.2
Concrete	Superst	ructure	Cu. Yd.	9.0
Reinforce Epoxy Co		Pound	1,120	

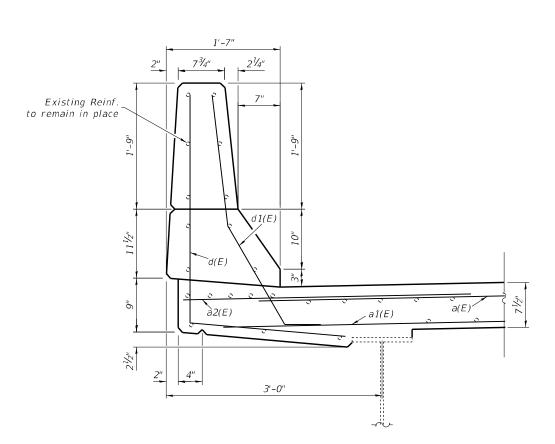
EXPANSION JOINT REPLACEMENT DETAILS	F.A.S RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 026-0089	2793	D7 BRIDGE REPAIRS 2022-5	FAYETTE	10	7
5:N: 020-0005	CONTRACT NO. 74A30				A30
SHEET 3 OF 6 SHEETS STA. TO STA.	TILLINOIS FED. AID PROJECT				

SCALE:

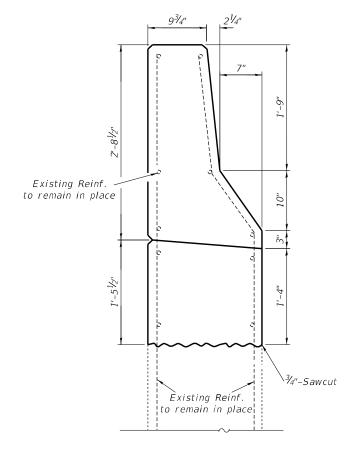




SECTION A-A



SECTION THRU PARAPET



SECTION THRU WING WALL

SCALE:

SECTION B-B

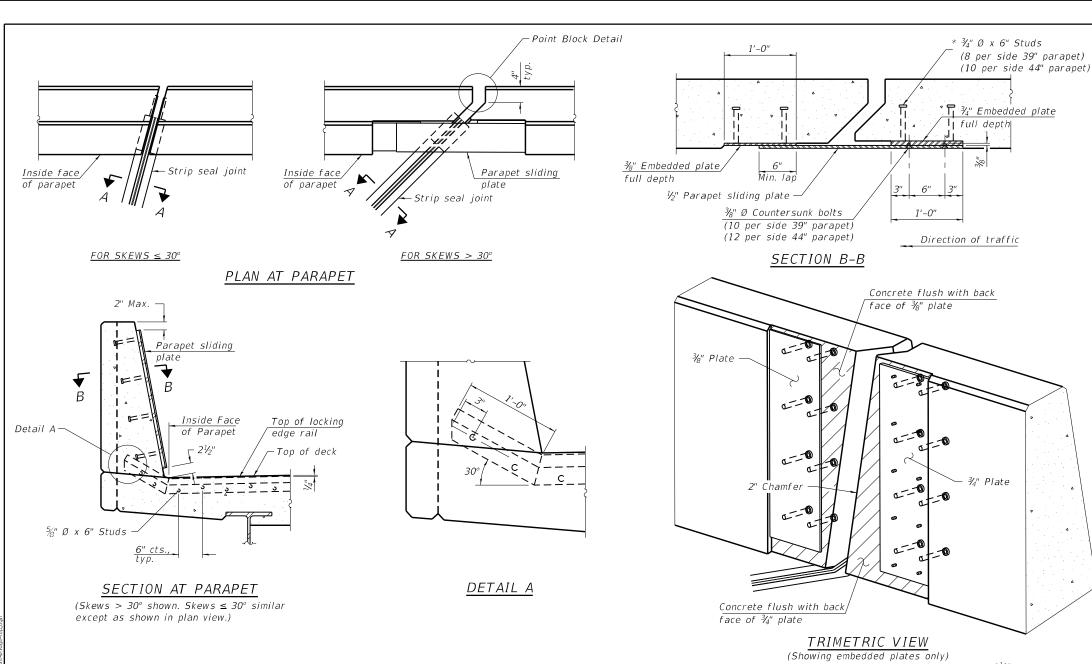
*Notes: Deteriorated or damaged areas in ends of bridge approach pavement may be repaired along with the removal and replacement of the abutment block. This work should be paid for at the contract unit prices for CONCRETE REMOVAL and CONCRETE SUPERSTRUCTURE.

If approach pavement repairs are poured with the abutment block, the contractor shall saw cut the surface in line with the back of the abutment block. The saw cut shall have a minimum depth of 1" and shall be sealed with bridge relief joint sealer. Cost for this work shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

USER NAME = steffenmk	DESIGNED	-	T. Walk	REVISED	-	
	DRAWN	-	T. Walk	REVISED	-	
PLOT SCALE = 100.0000 / in.	CHECKED	-	D. Macklin	REVISED	-	
PLOT DATE = 4/5/2021	DATE	-	Ju l y 2020	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	EXPANSION	I JOINT	REPLA	CEMEN	IT DETAILS	F.A.S RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 026-0089				2793	D7 BRIDGE REPAIRS 2022-5	FAYETTE	10	8		
	3.14. 020-0003							CONTRACT	NO. 7	4A30
	SHEET 4	OF 6	SHEETS	STA	TO STA.		TILLINOIS EED A	D DDOJECT		



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

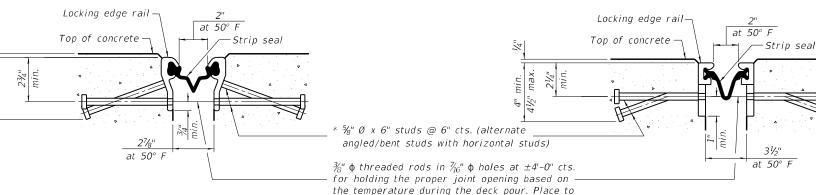
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

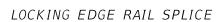


3/8" <u>ROLLED</u> WELDED RAIL (EXTRUDED) RAIL

LOCKING EDGE RAILS

SCALE:

** Back gouge not required if complete joint penetration is verified by mock-up.



flush

weld Omit seal

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	68

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

miss studs. All rods shall be burned, or sawed

off flush with the plates after concrete is set.

SER NAME = steffenmk DESIGNED -T. Walk REVISED DRAWN T. Walk REVISED HECKED D. Macklin REVISED PLOT DATE = 4/5/2021 July 2020 REVISED DATE

SHOWING ROLLED RAIL JOINT

1-1-2020

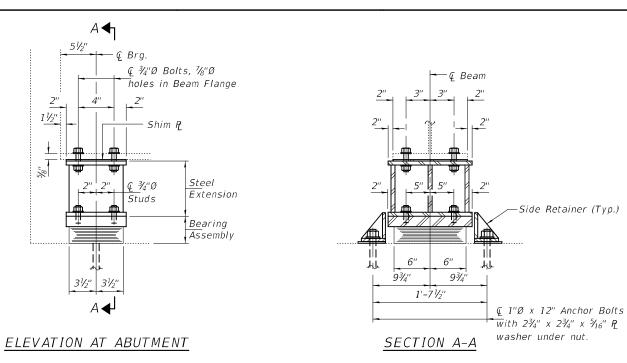
STATE OF ILLINOIS

	PREFORMED JOINT STRIP SEAL S.N. 026–0089			F.A.S RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
				2793	D7 BRIDGE REPAIRS 2022-5		022-5	FAYETTE	10	9		
								CONTRACT	NO. 74	1A30		
	SHEET 5	OF 6	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT		

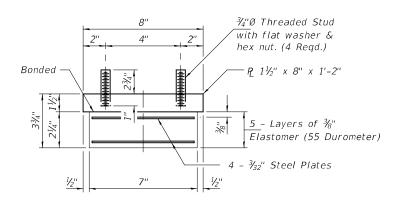
EJ-SS

DEPARTMENT OF TRANSPORTATION

SHOWING WELDED RAIL JOINT



TYPE I ELASTOMERIC EXP. BRG.

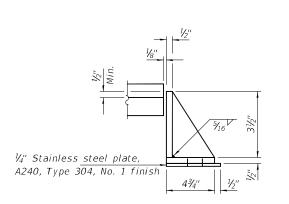


BEARING ASSEMBLY

EXPIRES 11-30-2022

TYI/REPS 5-17-2018

Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

43/4"

- € 1¾"Ø Hole

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BEAM REACTIONS

R₽	(K)	23.5
R Ł	(K)	37.7
Imp.	(K)	10.2
R (Total)	(K)	71.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

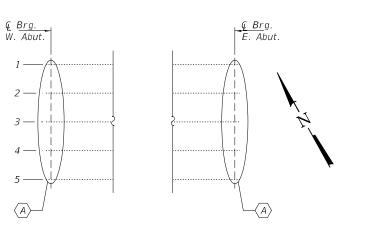
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 36 Tons. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

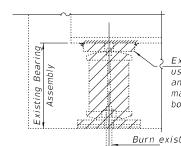
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



PARTIAL FRAMING PLAN

 $\langle A \rangle$ - Bearing Replacement

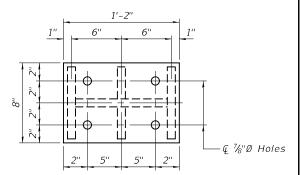


Existing R to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

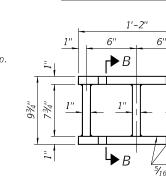
Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

1'-2" € 1/8"Ø Holes

PLAN TOP PLATE



PLAN BOTTOM PLATE



SECETION B-B

STEEL EXTENSION DETAIL

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Elastomeric Bearing Assembly, Type I	Each	10
Jack and Remove Existing Bearings	Each	10
Furnishing and Erecting Structural Steel	Pound	1440
Anchor Bolts, 1"Ø	Each	20

BILL OF MATERIAL - W. ABUT.

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	5
lack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	670
Anchor Bolts, 1"Ø	Each	10

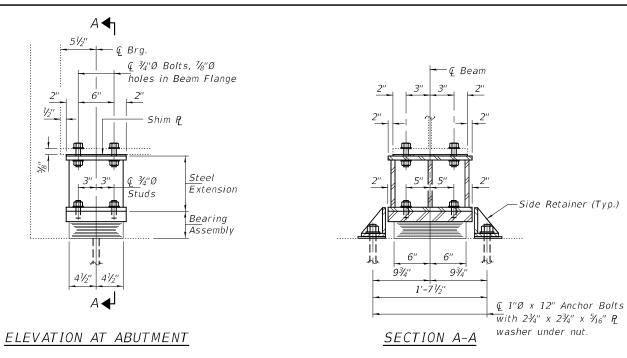
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

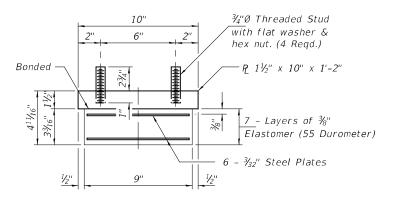
DESIGNED - Stephen M. Ryan	EXAMINED		DATE -	MAY 6, 2021
CHECKED - Adrian T. Halloway		ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED		REVISED	-
CHECKED - SMR ATH		ENGINEER OF BRIDGES AND STRUCTURES	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** BEARING REPLACMENT - WEST ABUTMENT FAS 2793 (IL 140) OVER HURRICANE CREEK SN 026-0089 SHEET NO. 1 OF 2 SHEETS

SECTION COUNTY 2793 D7 BRIDGE REPAIRS 2022-5 FAYETTE 10 10 CONTRACT NO. 74A30

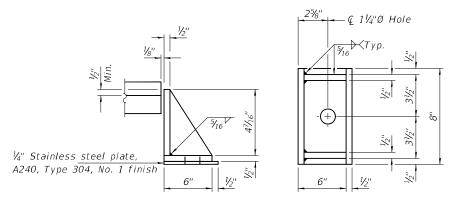


TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BEAM REACTIONS

R₽	(K)	22.0
R Ł	(K)	36.0
Imp.	(K)	10.6
R (Total)	(K)	68.6

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

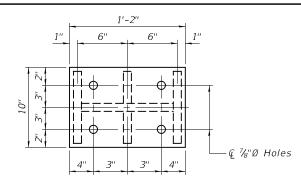
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

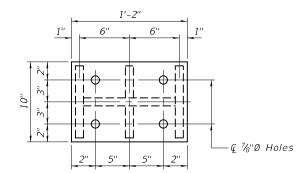
Min. jack capacity = 34 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

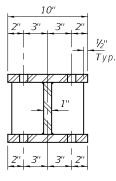
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

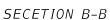


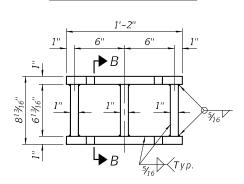
PLAN TOP PLATE



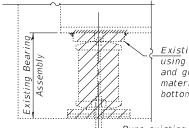
PLAN BOTTOM PLATE







STEEL EXTENSION DETAIL



Existing P to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL - E. ABUT.

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	5
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	770
Anchor Bolts, 1"Ø	Each	10

TYI/REPS 5-17-2018

DESIGNED -	SMR	EXAMINED	Timete A. A. O. C.	DATE -	MAY 6, 2021
CHECKED -	ATH	-	ENGINEER OF STRUCTURAL SERVICES	-	
DRAWN -	daburdell	PASSED	d. Carl Prayer	REVISED	-
CHECKED -	SMR ATH	-	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	_

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **BEARING REPLACMENT - EAST ABUTMENT** SN 026-0089 SHEET NO. 2 OF 2 SHEETS

COUNTY 2793 D7 BRIDGE REPAIRS 2022-5 FAYETTE 10 10A CONTRACT NO. 74A30