03-07-2025 LETTING ITEM 105

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED **HIGHWAY PLANS**

FAI ROUTE 70 **SECTION D7 BRIDGE REPAIRS 2025-12** PROJECT **BRIDGE REPAIRS FAYETTE COUNTY**

C-97-107-24



GROSS LENGTH = 1320 FT. = 0.25 MILE NET LENGTH = 1320 FT. = 0.25 MILE

PROJECT LOCATION SN 026-0102 & SN 026-0103

1"= 20

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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VS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT **CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS** ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: MATT BOWER (217) 342-8359 PROJECT MANAGER: REID TORBECK (217) 342-8257

CONTRACT NO. 74D33

F.A.I RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
70	D7 BRIDGE REPAIRS 2	025-12	FAYETTE	5	1
		B.LINOIS	CONTRAC	T NO. 741	233



OF THE STATE OF ILLINOIS

D-97-072-24

INDEX OF SHEETS

1	COVER
2	INDEX, STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	STRUCTURE PLANS

DESCRIPTION

GENERAL NOTES THIS PROJECT IS LOCATED OVER ILL 140 AND THE CSXT RAILROAD 0.8 MILES EAST OF THE BOND COUNTY LINE. THE WORK ON THIS PROJECT CONSISTS OF REPAIRS TO THE STIFFENER CONECTIONS ON THE STEEL BRIDGE BEAMS.

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 5

STD NO.

000001-08 001001-02 001006 701001-02 701006-05 701101-05 701106-02 701201-05 701400-12 701400-12 701401-13 701901-10	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND A FOOT OFF ROAD OPERATIONS, 2L 2W 15' TO 24" FROM PAVEMENT EDGE OFF ROAD OPERATIONS, WILTILANE, T5' TO 24" FROM PAVEMENT EDGE OFF ROAD MOVING OPERATIONS, MULTILANE, T5' TO 24" FROM PAVEMENT EDGE OFF ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY LANE CLOSURE, 2L 2W, DAY ONLY, >45 MPH APPROACH TO LANE CLOSURE FREEWAY EXPRESSWAY LANE CLOSURE FREEWAY EXPRESSWAY TRAFFIC CONTROL DEVICES

USER NAME = reid.torbeck	DESIGNED -	REVISED -			INDEX S			GENERAL NOT	FS	F.A.1	SECTION	COUNTY	SHEETS	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		MDEA, U				20	70	D7 BRIDGE REPAIRS 2025-12	FAYETTE	5	2
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 74	D33
PLOT DATE = 9/25/2024	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

REV - MS

			100% STATE									
	SUMMARY OF QUANTITI	IES	ΤΟΤΑΙ	CONS	TRUCTION TYPE	CODE			SU№	IMARY OF	QUANTI	TIES
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0047			C	DDE NO	-	IT	EM	
67100100	MOBILIZATION	L SUM	1	1								
70100450	TRAFFIC CONTROL AND PROTECT	FION, L SUM	1	1								
	STANDARD 701201											
70100800	TRAFFIC CONTROL AND PROTECT	FION, L SUM	1	1								
	STANDARD 701401											
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56								
X5051204	STRUCTURAL STEEL REMOVAL	POUND	6140	6140								
X5051206	STRUCTURAL STEEL REPAIR	POUND	38800	38800								
Z0048665	RAILROAD PROTECTIVE LIABILITY	L SUM	1	1								
	INSURANCE											
		DESIGNED - DRAWN -	REVISED -			STATE OF I					SUM	MARY OF QUA
		CHECKED - DATE -	REVISED -		DEP	ARTMENT OF TI				SCALE:	SHEET	OF SHEETS

				CONST	RUCTION	TY	PE C	ODE	_
		TOTAL QUANTITIES		000					
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MARIIIE.	2		RTE. 70		EPAIRS 2025-12	FAYE	TTE	5	3
S STA.		TO STA.			ILLINOIS FED. AID			NO. 74E)33



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DESIGNED - Adrian T. Halloway	EXAMINED	Zh	DATE	- DECEMBER 05, 2024		REPAIR DETAILS
CHECKED - Chi-Cheung Chau		ENGINEER OF STRUCTURAL SERVICES	<u> </u>		STATE OF ILLINOIS	FAI 70 OVER IL 140 / C
DRAWN - daburdell	PASSED	F L	REVISE	D -	DEPARTMENT OF TRANSPORTATION	SN 026-0102 (WB) & 01
CHECKED - ATH CCC		ENGINEER OF BRIDGES AND STRUCTURES	REVISE	D -		SHEET NO. 1 OF 2 SHEETS
	(0			
			-			

CONTRACT NO. 74D33



REMOVAL DETAIL Hatched area indicates Structural Steel Removal.

> * Core 2" hole so that it catches web to stiffener weld. Then cut into the hole without damaging web when cutting stiffener horizontally and vertically.



STIFFENER REPAIR (260 Locations)



SECTION AT EXTRACTION LOCATIONS

Labeling of additional repair plates only. See Stiffener Repair for remaining steel details. (4 locations)





2" core from opposite of the w as shown with solid lines, into stiffener about an inch. Then, using a cutting wheel, cut follo		0		
as shown with solid lines, into stiffener about an inch. Then, using a cutting wheel, cut follo		0		
the dashed lines to extract the piece for evaluation.		as st us tr	s shown with solid li tiffener about an inc. sing a cutting wheel, ne dashed lines to ex	nes, into the h. Then, cut following

EXTRACTION DETAIL (Match mark each piece with location number)

DESIGNED - ATH	EXAMINED		DATE - DECEMBER 05, 2024		REPAIR DETAILS	F.A.I. RTE	SECTION	COUNTY TOTAL SHEE SHEETS NO.
CHECKED - CCC DRAWN - daburdell		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	SN 026-0102 (WB) & 0103 (EB)	70	D7 BRIDGE REPAIRS 2025-12	FAYETTE 5 5
CHECKED - ATH CCC	PASSED	ENGINEERONBRIDGES AND STRUCTURES	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED. AI	CONTRACT NO. 74D33











FILL PLATE (4 Required)





BOLT HOLE LEGEND

- - Field drill holes in new steel using existing steel as template.
- Shop drill holes in new steel. Use new steel as template to field drill holes in existing steel.