04-26-2024 LETTING ITEM 151

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

849 D9 BRIDGE OVERLAY 2023-10 JEFFERSON 16 1 LUNOIS CONTRACT NO. 78A10

D-99-043-23

PROPOSED HIGHWAY PLANS

FAP 849 (IL 142) SECTION D9 BRIDGE OVERLAY 2023-10 PROJECT HBFP-CEMX(301) **BRIDGE OVERLAY JEFFERSON COUNTY**

C-99-059-23

TRAFFIC DATA

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5

IL 142 TRAFFIC DATA 2021 ADT = 2850 8% TRUCKS

TOWNSHIPS

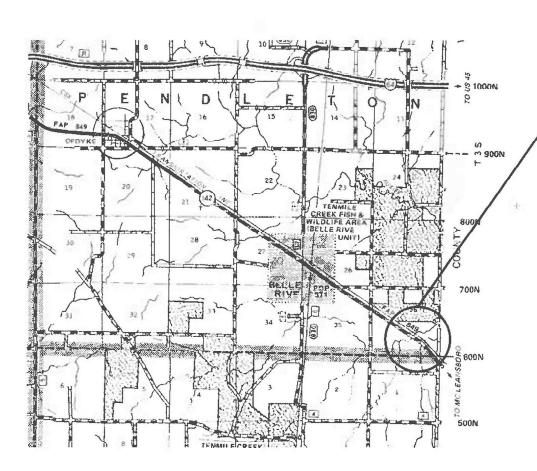
PENDLETON

POSTED SPEED: 55 MPH

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: EHREN KIRBY PROJECT DESIGNER: DAVID WILSON

CONTRACT NO. 78A10



GROSS LENGTH = 910.3 FT. = 0.17 MILES NET LENGTH = 910 .3 FT. = 0.17 MILES

BRIDGE NO. 1 SN 041-0099 JEFFERSON COUNTY IL 142 OVER ROCKY BRANCH BRIDGE NO. 2 SN 041-0048 JEFFERSON COUNTY

LOCATION OF SECTION INDICATED THUS: -IL 142 OVER ROCKY BRANCH TRIBUTARY

> STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SUBMITTED **REGION FIVE ENGINEER** March 22, 2024 ENGINEER OF DESIGN AND ENVIRONMENT March 22, 2024

> > **PRINTED BY THE AUTHORITY** OF THE STATE OF ILLINOIS

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

REV. - MS

0

Prepared By:

DISTRICT STUDIES & PLANS ENGINEER

Examined By:

DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelsur

DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: DISTRICT CONSTRUCTION ENGINEER

Examined By: Aam Hay
DISTRICT MATERIALS ENGINEER

USER NAME = david.a.wibon	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 '/ In.	CHECKED -	REVISED -
PLOT DATE = 1/23/2024	DATE -	REVISED -

SECTION	COUNTY	TOTAL	SHE
D9 BRIDGE OVERLAY 2023-10	JEFFERSON	16	2
	CONTRACT	NO, 78/	410
IN LINOIS FED AIR	DEPOJECT		

GENERAL NOTES

ON ALL SUPERELEVATED CURVES, THE PROPOSED BASE COURSE WIDENING SHALL BE CONSTRUCTED WITH A SLOPE CONFORMING TO THE RATE OF SUPERELEVATION OF THE EXISTING PAVEMENT.

REMOVAL OF EXISTING HMA AND AGGREGATE SHOULDER SHALL BE INCLUDED IN THE COST OF PAVED SHOULDER REMOVAL.

COMMITMENTS:

BRIDGES ARE STAGED SEPERATELY TO ACCOMODATE ACCESS TO THE FIELD ENTRANCE BETWEEN THE BRIDGES. THIS IS THE ONLY ACCESS TO THAT FIELD.

INDEX OF SHEETS

1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
4-5	SUMMARY OF QUANTITIES
6	SCHEDULES
7	GENERAL PLAN AND ELEVATION - SN 041-0099
8	TYPICAL SECTIONS AND STAGING - SN 041-0099
9	SOFFIT PATCHING AND ABUTMENT REPAIR DETAILS - SN 041-0099
10	STAGE I DETAILS - SN 041-0099
11	STAGE II DETAILS - SN 041-0099
12	GENERAL PLAN AND ELEVATION - SN 041-0048
13	TYPICAL SECTIONS AND STAGING - SN 041-0048
14	ABUTMENT REPAIR DETAILS - SN 041-0048
15	STAGE I DETAILS - SN 041-0048
16	STAGE II DETAILS - SN 041-0048

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420001-10	PAVEMENT JOINTS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701316-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR FOR SPEED > 45 MPH
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS \geq 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

REV. - MS

	USER NAME = david.a.wilson	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
ĺ	PLOT DATE = 2/28/2024	DATE -	REVISED -

SCALE:

SUMMARY OF QUANTITIES

COUNTY:	JEFFERS	ON COUNTY				
ROUTE:	FAP 842 (IL 142)					
FUNDING:	80% FEDERAL 20% STATE					
LOCATION:	IRU	JRAL				
TOTAL	SN 041-0099	SN 041-0048				
QUANTITY	0047	0047				

			LOCATION:	RUR	AL
CODE	ITEM DESCRIPTION	UNIT	TOTAL	SN 041-0099	SN 041-0048
NUMBER	TIEM DESCRIPTION	OMI	QUANTITY	0047	0047
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	281	142	139
44004250	PAVED SHOULDER REMOVAL	SQ YD	281	142	139
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1.5	1.5
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	2	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	2	2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
		± .		-	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
			1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
			1 1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	91	45.5	45.5
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	30	15	15
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	2,051	1,025.5	1,025.5
. 0303221	The state of the s	1001	2,031	1,02.3.3	1,023.3

Idot: pw.britiey.com:PWIDOT/Documents/IDOT Offices/District 9/ORD Projects/78A10/CADD

REV. - MS

	USER NAME = david.a.wilson	DESIGNED -	REVISED -			SUMMARY OF QUA	ANTITIES		F.A.P	SECTION	COUNTY	TOTAL SI	HEET
		DRAWN _	REVISED -	STATE OF ILLINOIS			ANTITIES		849	D9 BRIDGE OVERLAY 2023-10	JEFFERSON	16	4
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. 78A1	5
j	PLOT DATE = 1/23/2024	DATE -	REVISED -		SCALE:	SHEET 4 OF 16 SHEETS	STA.	TO STA.		ILLINOIS FED. AII	PROJECT		

			FUNDING:	00% FEDERAL	ZUM SIAIE
			LOCATION:	RUR	AL
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SN 041-0099 0047	SN 041-0048 0047
NUMBER		- 	QUANTITI	0047	0047
78001110	PAINT PAVEMENT MARKING - LINE 4"	F●OT	2,051	1,025.5	1,025.5
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1	1	
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1,368	684	684
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	2	1	1
X03221 9 4	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	83	83	
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SQ YD	644	430	214
Z00121 9 3	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	644	430	214
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	50.8	1.6	49.2
-					
		4			

* SPECIALTY ITEM

REV. - MS

USER NAME = david.a.wilson	DESIGNED -	REVISED -			SI	MMARY	OF QUA	ANTITIES		F.A.P RTF	SECTION	COUNTY	TOTAL	SHE
	DRAWN -	REVISED -	STATE OF ILLINOIS		•	1411411/21/	01 407			849	D9 BRIDGE OVERLAY 2023-10	JEFFERSON	16	5
PLOT SCALE = 0.16666633 '/in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								1 1	CONTRAC	T NO. 78	8A10
PLOT DATE = 1/23/2024	DATE -	REVISED -		SCALE:	SHEET 5	OF 16	SHEETS	STA.	TO STA.		ILLINOIS FED. AII	PROJECT		

FILE NAME: pw://ildof-pw.bentlev.com/PWIDOT/Documents/IDOT

					PA	/EMENT	MARKING	SCHE	DULE				
						TEMPORARYPAV	EMENT MARKING	PAINT PAVEMENT MARKING		PAVEMENT	SHORT	SHORT	RAISED
STATION		STATION NOTES			LINE - 4" WHITE				MARKING TERM REMOVAL - PAVEMEN		TERM PAVEMENT MARKING	PAVEMENT MARKER	
1						SOLID	SKIP - DASH	SOLID	SKIP - DASH	GRINDING	MARKING	REMOVAL	REMOVAL
						FT	FT	FT	FT	SQFT	FT	SQFT	EACH
		IL 142	!										
676+52.5	RT	TO	685+62.8	RT		910.3		910.3		607			
676+52.5		ТО	685+62.8		ALONG CENTERLINE		230		230	<mark>1</mark> 54	92	31	1
676+52.5	LT	то	685+62.8	LT		910.3		910.3		607			
TOTALS			S		20	051	20	051	1368	92	31	1	

MODEL: Schedules [Sheet]
FILE NAME: pw://ildot-pw.bentlev.com;PWIDOT/Doc

USER NAME = david.a.wilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/23/2024	DATE -	REVISED -

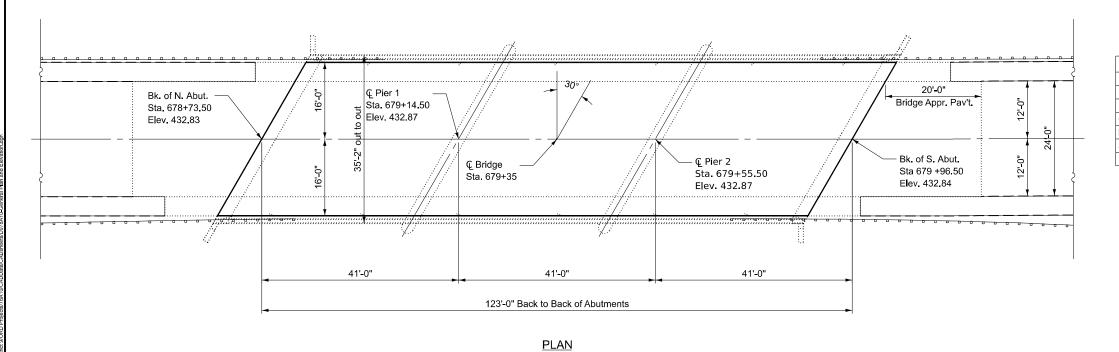
SCALE:

SCHEDULES					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
							849	D9 BRIDGE OVERLAY 2023-10	JEFFERSON	16	6
									CONTRACT	NO. 78	\10
SHEET	6	OF	16	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

Elev. 428.58 Stream bed Elev. 420.6 Elev. 417.58 Elev. 417.58

ELEVATION





GENERAL NOTES

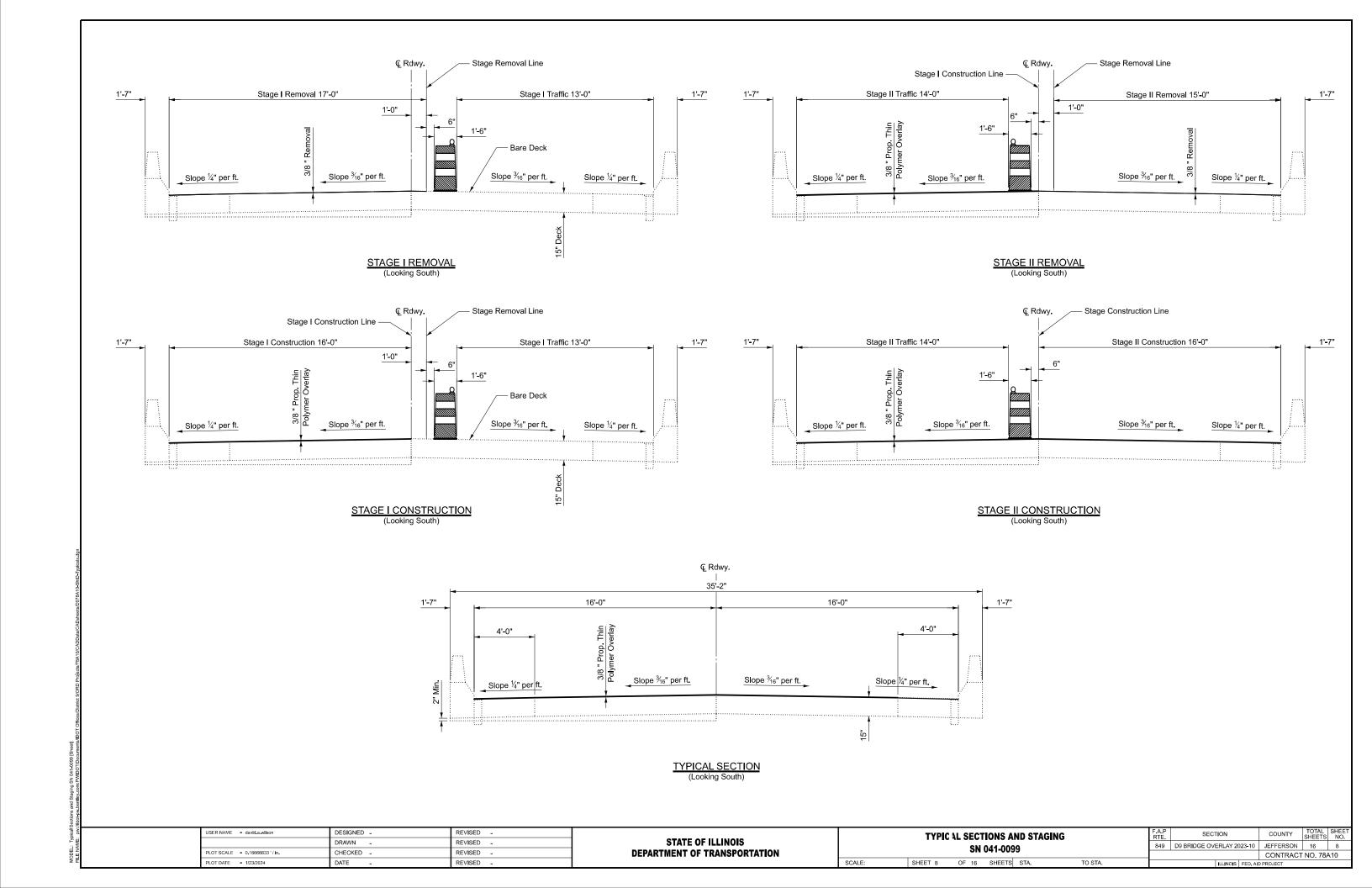
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall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

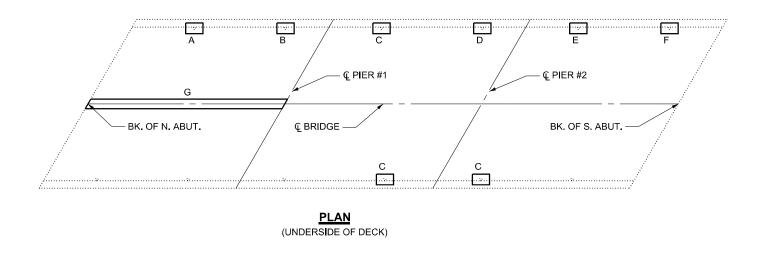
BILL OF MATERIALS

ITEM	UNIT	TOTAL
Portland Cement Concrete Base Course Widening 10"	Sq. Yd.	142
Paved Shoulder Removal	Sq. Yd.	142
Polymer Modified Porland Cement Mortar	Sq. Ft.	83
Concrete Bridge Deck Scarification 3/8"	Sq. Yd.	430
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	430
Structural Repair of Concrete ≤ 5"	Sq. Ft.	1.6

BRIDGE OVERLAY
IL 142 (FAP 849)
OVER ROCKY BRANCH
JEFFERSON COUNTY
D9 BRIDGE OVERLAY 2023-10
SN 041-0099

USER NAME = david.a.wilson	DESIGNED -	REVISED -	GENI RAL PLAN AND ELEVATION F.A.P			GENLDAL DI AN AND ELEVATION		SECTION	С	DUNTY S	TOTAL SHEET		
	DRAWN -	REVISED -	STATE OF ILLINOIS	SN 041-0099		849	D9 BRIDGE OVERLAY	2023-10 JEF	FERSON	16 7			
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								NO. 78A10		
PLOT DATE = 2/28/2024	DATE -	REVISED -		SCALE:	SHEET 7	OF 16 S	SHEETS STA.	TO STA.		ILLINOI	S FED. AID PRO.	ECT	







DRAINS

REPAIR SIZE VARIES
SEE SOFFIT

PATCHING DETAILS

- 6" Ø DRAIN

SOUTH ABUTMENT LOOKING SOUTH

(NOT TO SCALE)

SOFFIT REPAIR DETAILS

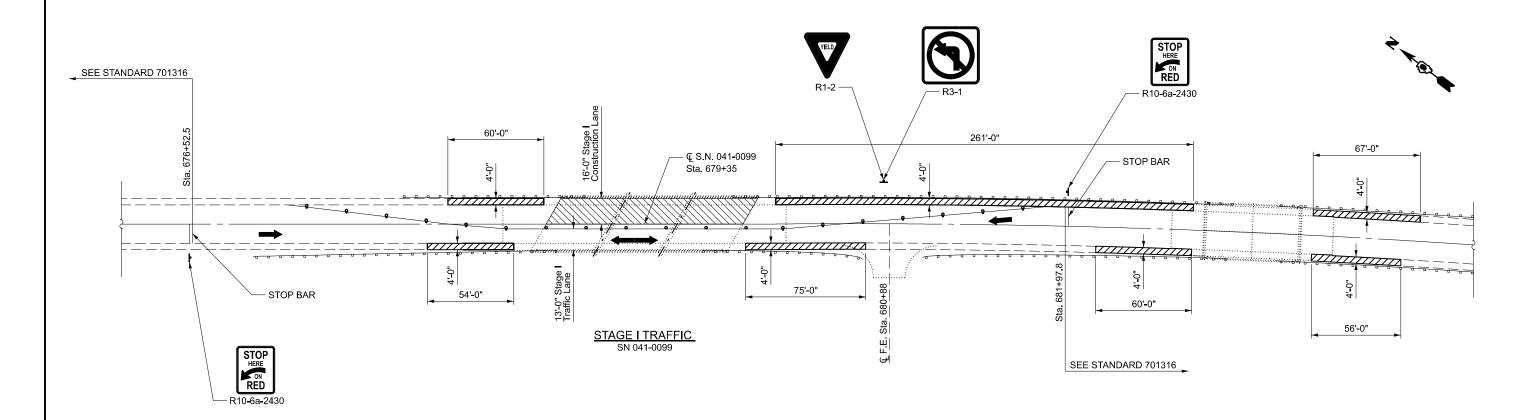
REPAIR	REPAIR SIZE	LOCATIONS	TOTAL SQ FT
Α	3.0 x 2.5	1	7.3
В	2.0 x 2.2	1	4.2
С	2.0 x 2.0	3	11.4
D	4.0 x 3.0	1	11.8
E	3.5 x 1.5	1	5.1
F	1.5 x 1.5	1	2.2
G	1.0 x 41.0	1	41.0
	83.0		

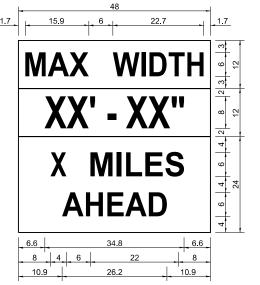
BILL OF MATERIALS

UNIT	QUANTITY
Sq. Ft.	83
Sq. Ft.	1.6
	Sq. Ft.

USER NAME = david.a.wilson DESIGNED - REVISED - STATE OF ILLINOIS
PLOT SCALE = 0.166666831 / in. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION

SCALE = 0.16666683 / in. CHECKED - REVISED - REVISED - REVISED - REVISED - SCALE = 0.166666831 / in. CHECKED - REVISED - REVISED - REVISED - REVISED - SCALE: SHEET 9 OF 16 SHEETS STA. TO STA. TO





W12-I103 (WIDTH IS 80) NO BORDER, BLACK ON WHITE: [MAX WIDTH] D:

NO BORDER, BLACK ON ORANGE:

NO BORDER, BLACK ON WHITE:

[X MILES] D: [AHEAD] D:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

Notes for Max Width Sign:

- Install a Max Width Sign each direction on IL 142 to give traffic approaching work zone enough advance notice to change routes if needed. Exact locations as directed by Engineer.
- The Contractor shall furnish the posts and erect the signs at the location directed by the Engineer. All signs shall be post mounted.
- The noted work, including signs, posts, hardware, and labor shall be included in the contract unit price, Each, for Traffic Control and Protection, Std. 701316, no other compensation will be allowed.
- The width shown on the W12-I103 sign shall be 18" less than what is shown in the staged lane widths or as directed by the Engineer.
- 5. The "X MILES AHEAD" will be determined by the Engineer.

Proposed PCC Base Course Widening 10" To Be Constructed Prior To Stage I.

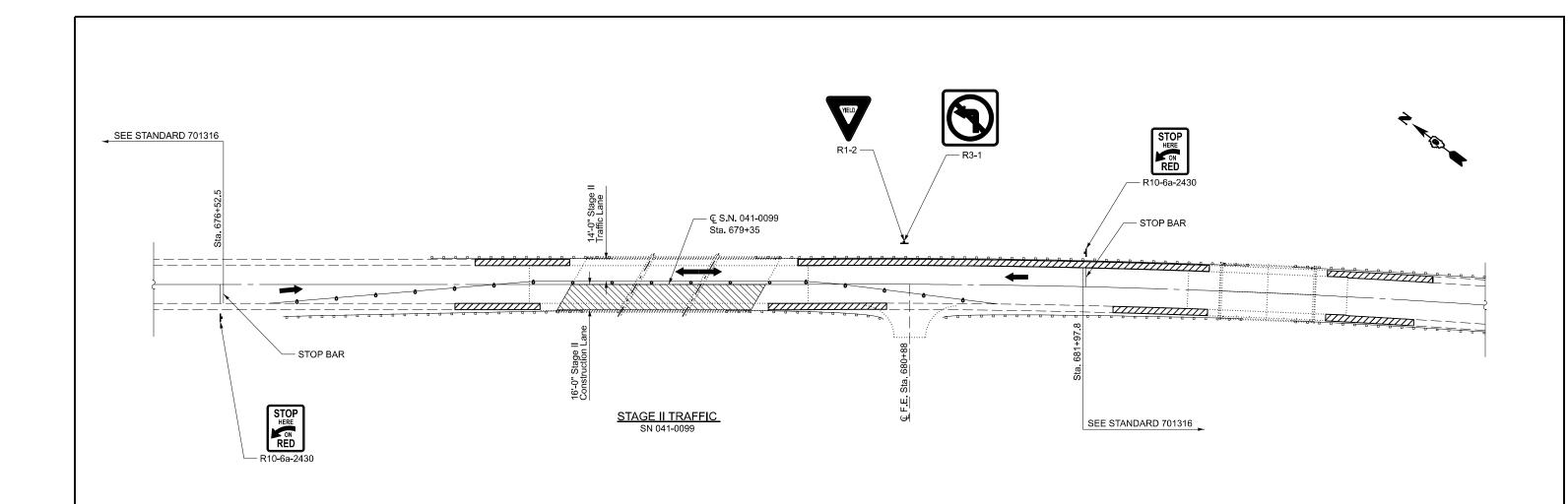
Proposed \(^{3}_{8}\)" Thin Polymer Overlay

W12-I103

JSER NAME = david.a.wilson DESIGNED -REVISED DRAWN REVISED CHECKED -REVISED DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **STAGE I DETAILS** 849 D9 BRIDGE OVERLAY 2023-10 JEFFERSON 16 10 SN 041-0099 CONTRACT NO. 78A10 SHEET 10 OF 16 SHEETS STA. TO STA.



Proposed PCC Base Course Widening 10" to be constructed prior to Stage II.

Proposed 3/8" Thin Polymer Overlay

 USER NAME
 = david.a.wilson
 DESIGNED
 REVISED

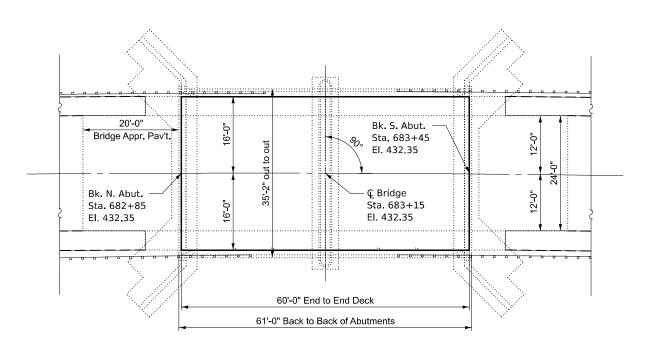
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 REVISED

 PLOT SCALE
 = 0.16868633 '/in.
 CHECKED
 REVISED

 PLOT DATE
 = 2/28/2024
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELEVATION



<u>PLAN</u>

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 materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
Portland Cement Concrete Base Course Widening 10"	Sq. Yd.	139
Paved Shoulder Removal	Sq. Yd.	139
Concrete Bridge Deck Scarification 3/8"	Sq. Yd.	214
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	214
Structural Repair of Concrete ≤ 5"	Sq. Ft.	49.2

BRIDGE OVERLAY
IL 142 (FAP 849)

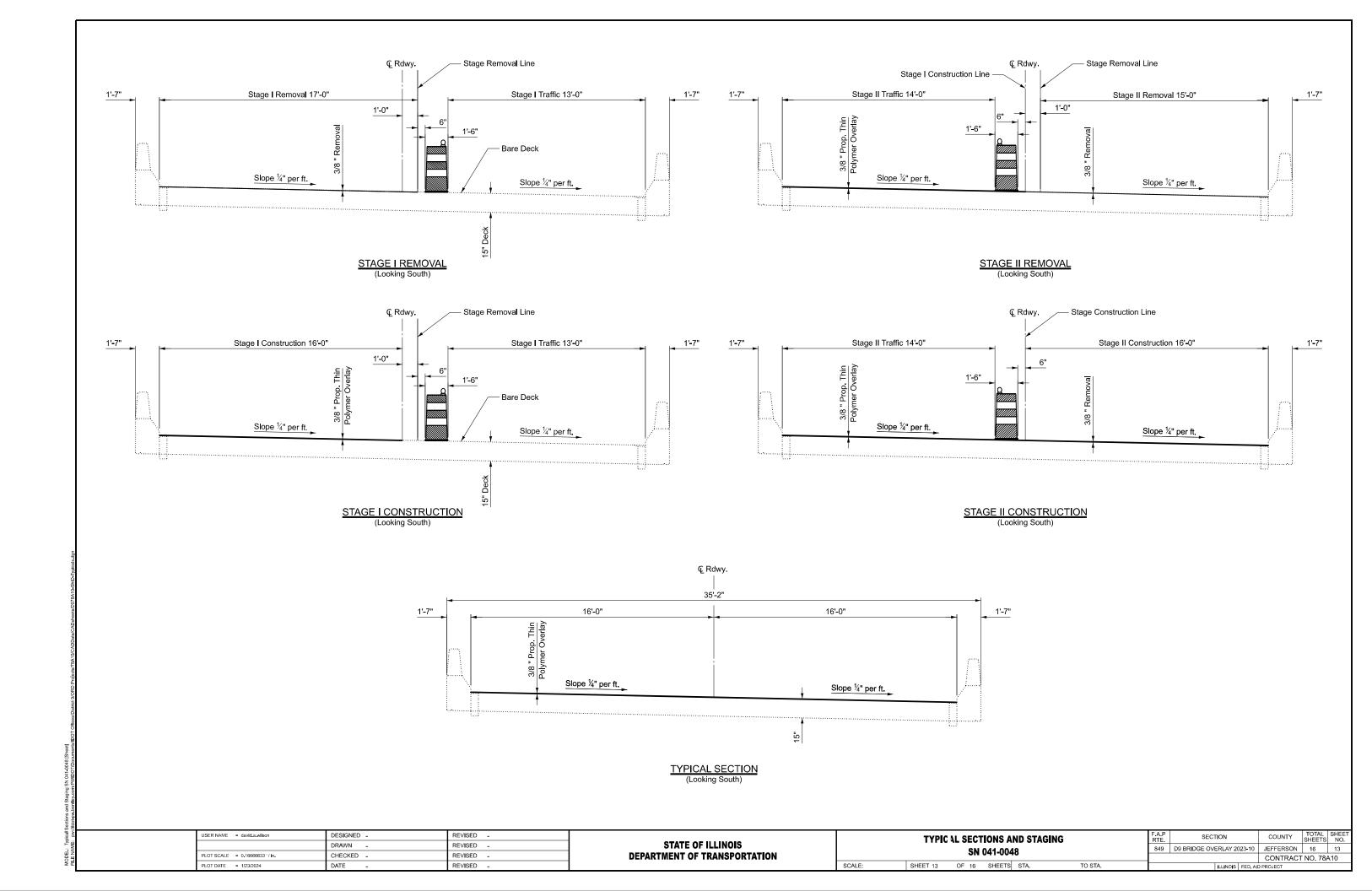
OVER ROCKY BRANCH TRIBUTARY

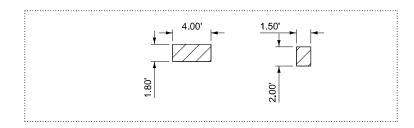
JEFFERSON COUNTY

D9 BRIDGE OVERLAY 2023-10

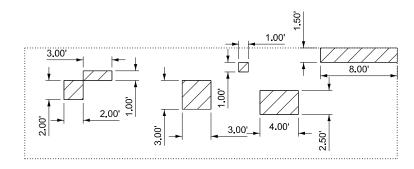
SN 041-0048

USER NAME = david.a.wilson	DESIGNED -	REVISED -			GENI RAL PLAN AND ELEVATION		F.A.P	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS				849	D9 BRIDGE OVERLAY 2023-10	JEFFERSON	16 12
PLOT SCALE = 0.16666633 '/in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 041-0048					CONTRAC	T NO. 78A10
PLOT DATE = 1/23/2024	DATE -	REVISED -		SCALE:	SHEET 12 OF 16 SHEETS STA.	TO STA.		ILLINOIS FED. AID	PROJECT	





NORTH ABUTMENT LOOKING NORTH



SOUTH ABUTMENT LOOKING SOUTH

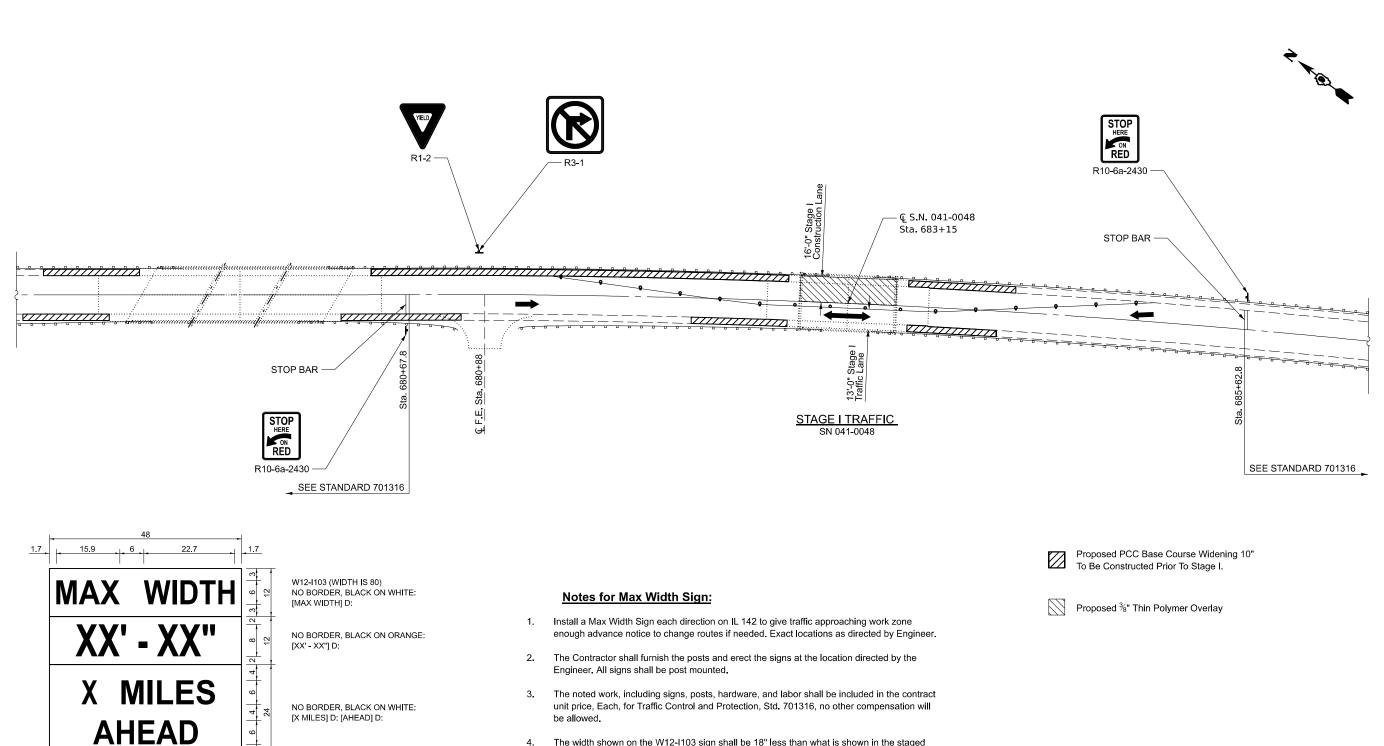


Structural Repair of Concrete ≤ 5"

BILL OF MATERIALS

ITEM	UNIT	TOTAL
Structural Repair of Concrete ≤ 5"	Sq. Ft.	49.2

USER NAME = david.a.wilson DESIGNED -REVISED -AB ITMENT REPAIR DETAILS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION REVISED -DRAWN -SN 041-0048 PLOT SCALE = 0.16666633 '/in. CHECKED -REVISED -DATE REVISED -SHEET 14 OF 16 SHEETS STA. TO STA.



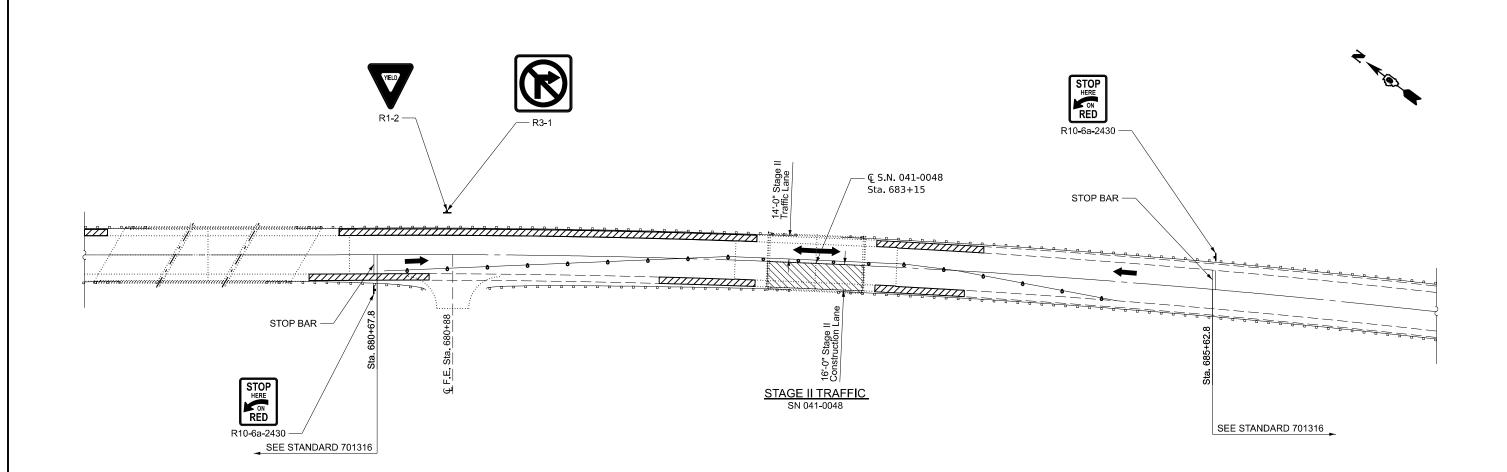
W12-I103

- The width shown on the W12-I103 sign shall be 18" less than what is shown in the staged lane widths or as directed by the Engineer.
- 5. The "X MILES AHEAD" will be determined by the Engineer.

USER NAME = david a wilson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/28/2024	DATE -	REVISED -

ALL DIMENSIONS ARE IN INCHES UNLESS

OTHERWISE NOTED.



Proposed PCC Base Course Widening 10"
To Be Constructed Prior To Stage I.

Proposed %" Thin Polymer Overlay

 USER NAME
 = david.a.wilson
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 0.1666683311/in.
 CHECKED
 REVISED

 PLOT DATE
 = 2788/2024
 DATE
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION