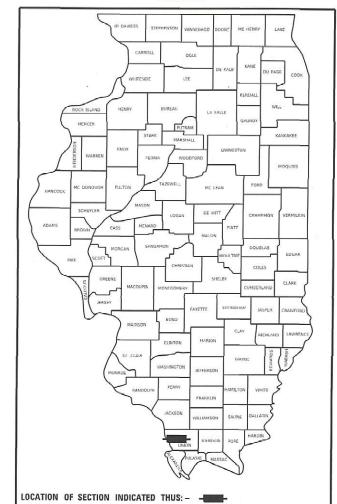
01-20-2023 LETTING ITEM 040

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  885 D9 BRIDGE OVERLAY 2023-7 UNION 8 1 ILLINOIS CONTRACT NO. 78966

D-99-061-22



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 13 20 ZZ

ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2022

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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# **PROPOSED** HIGHWAY PLANS

F.A.P. ROUTE 885 (IL 146) **SECTION D9 BRIDGE OVERLAY 2023-7 BRIDGE REPAIRS UNION COUNTY** 

C-99-081-22

FOR INDEX OF SHEETS, SEE SHEET NO. 3 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5

> IMPROVEMENT LOCATION STRUCTURE 091-0060 (E) OVER CLEAR CREEK

TRAFFIC DATA

2015 ADT = 4690 WITH 14.7% TRUCKS

**TOWNSHIP** COUNTY UNIT ROAD DISTRICT 01

**COORDINATE SYSTEM:** POSTED SPEED: 55 MPH

J.U.L.I.E.

0

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

0

PROJECT ENGINEER: GRANT DETERDING DESIGN ENGINEER: ADRIAN ADAMS

RANGE 2W

GROSS LENGTH = 372.50 FT. = 0.071 MILE STRUCTURE LENGTH = 372.50 FT. = 0.071 MILE

CONTRACT NO. 78966

Prepared By: Stacks Steen
DISTRICT STUDIES & PLANS ENGINEER

Examined By:

Examined By: Confulsion

DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: DISTRICT OPERATIONS ENGINEER

Examined By:

Examined By:

Examined By: Aa. W. Day
DISTRICT MATERIALS ENGINEER

USER NAME = SUSERS	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = SSCALE\$	CHECKED -	REVISED -
PLOT DATE = SDATES	DATE -	REVISED

# **GENERAL NOTES**

1) AT ALL LOCATIONS WHERE PROPOSED CONCRETE SHOULDER JOINS AN EXISTING HOT-MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

### **STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701316-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
862001-01	UNINTERRUPTABLE POWER SUPPLY
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR
	CONSTRUCTION ON RURAL LOCAL HIGHWAYS

# **MIX DESIGN**

LOCATIONS	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70
PG:	PG64-22
DESIGN AIR VOIDS:	4.0%, 70 GYRATION (N70) DESIGN
MIXTURE COMPOSITION:	IL-9.5MM
(GRADATION MIXTURE)	
FRICTION AGGREGATE:	MIX D
MIXTURE WEIGHT	112 LBS/SQ YD/IN
QUALITY MANAGEMENT	QCQA
PROGRAM:	
SUBLOT SIZE:	1000
MATERIAL TRANSFER	NO
DEVICE:	

# **INDEX OF SHEETS**

1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS, STANDARDS, MIX DESIGN, AND COMMITMENT
1-5	SUMMARY OF QUANTITIES
5	GENERAL PLAN AND ELEVATION SN 091-0060
7	TRAFFIC CONTROL STAGING AND DETAILS
3	TRAFFIC CONTROL PLAN

# **COMMITMENTS**

NON

SCALE:

USER NAME = Adrian.Adams	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS, STANDARDS,								
	MIX DESIGN AND COMMITMENTS						D9	
		DECIGIT,	711111111111111111111111111111111111111		12.11.0			
	SHEET	OF	SHEETS	STA.	TO STA.			

REV. - MS

# SUMMARY OF QUANTITIES

COUNTY:	UNION								
ROUTE:	FAP 885 (IL 146)								
FUND I NG:	100% STATE								
LOCATION:	RURAL								

		LOCATION:	RURAL
CODE	NUMBER TIEM DESCRIPTION		0047
NUMBER			TOTAL QUANTITY
35650500	BASE COURSE WIDENING 10''	SQ YD	305
40600990	TEMPORARY RAMP	SQ YD	64
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX ''D'', N70	TON	198
44004250	PAVED SHOULDER REMOVAL	SQ YD	132
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
67100100	MOBILIZATION	L SUM	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION CTANDARD 701201	L CUM	,
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4
10103013	THAT TO CONTROL SURVEILLANCE	CAL DA	<u> </u>
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
			-
70106700	TEMPORARY RUMBLE STRIPS	EACH	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	36
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	12

REV. - MS

USER NAME = Adrian.Adams	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET

SUMMARY OF QUANTITIES		F.A.P. RTE.	SEC	CTION		COUNTY	TOTAL SHEETS			
		885	D9 BRIDGE O	VERLAY 2	2023-7	UNION	8	4		
				_[				CONTRACT	NO. 7	8966
OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

# SUMMARY OF QUANTITIES - CNTD.

			10000 00000
		LOCATION:	RURAL
CODE	THE DESCRIPTION		0047
NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6''	F00T	1, 209
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	1, 760
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	55
Z0021916	SILICONE JOINT SEALER, 3''	FOOT	92
Z0041895	POLYMER CONCRETE	CU FT	6. 2

REV. - MS

UNION

FAP 885 (IL 146)

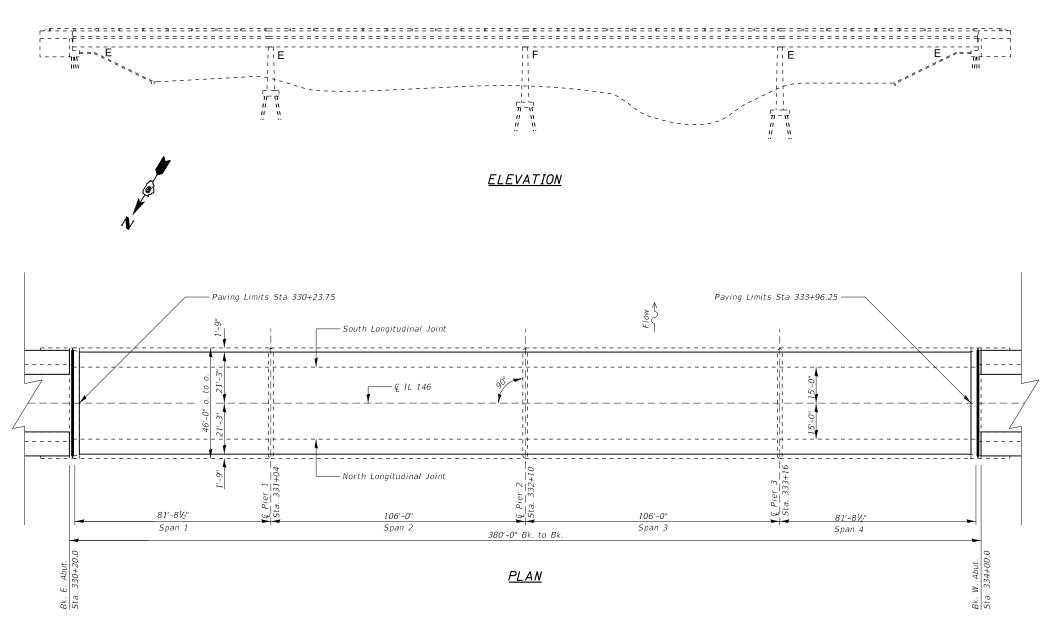
100% STATE

COUNTY:

ROUTE:

FUND ING:

USER NAME = Adrian.Adams	DESIGNED -	REVISED -	_	SUMMARY OF QUANTITIES						F.A.P.	SECTION	COUNTY	TOTAL
	DRAWN -	REVISED -	STATE OF ILLINOIS							885	D9 BRIDGE OVERLAY 2023-7	UNION	8
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								1	CONTRAC	T NO.
PLOT DATE = 10/20/2022	DATE -	REVISED -	i – – – – – – – – – – – – – – – – – – –	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT	



Removal of existing 1½" HMA bridge deck overlay & ½" WMS, and Proposed 2" HMA bridge deck overlay without a new WMS.

### SCOPE OF WORK

- 1. Setup TC&P 701316
- 2. Remove existing HMA bridge deck overlay and WMS.
- 3. Install Temporary Ramps
- 4. Perform Deck Slab Repair
- 5. Remove and Replace Polymer Concrete Nosing & Silicone Joint Sealer
- 6. Switch TC&P 701316 from Stage I to Stage II & Repeat Work
- 7. Remove TC&P 701316
- 8. Remove Temp. Ramps & Install Proposed HMA bridge deck overlay without new WMS

#### CURVE DATA

F.A.P. ROUTE 885

 $\Delta = 38^{\circ} - 50' - 54''$ 

 $D = 3^{\circ}-30'-00''$ 

### DESIGN STRESSES

 $f'c = 3,500 \ psi$ 

#### R = 1637.02'T = 577.26'L = 1109.95'E = 98.80'S.E. = 0.0725'S.E. Transition = 195 Sta. 333+01 to Sta. 334+96 Sta. 344+76 to Sta. 346+81

### **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 neccessary 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 furnished at the unit price bid for the work.

In addition to the requirements of article 107.16 the contractor shall protect the surface of all bridge decks and bridge approach pavements in a manner satisfactory to the engineer before any equipment is allowed to cross the structure. Protection shall be provided for all equipment as defined in article 101.16 regardless if track

There is no documentation showing that asbestos is absent in the existing waterproofing membrane system of SN 091-0060. The contractor may elect to test the existing waterproofing membrane system for asbestos. If after testing it is determined that asbestos is present, or if no testing of the waterproofing membrane system is performed, the contractor shall follow Check Sheet #7 of the Department's Recurring Special Provisions, Adopted January 1, 2022. This work is included in the cost of Deck Slab Repair (Partial).

The cost of any saw cuts made to complete the work as described in plan details shall not be paid for separately but shall be included in the various pay items involved.

The cost of removing the existing polymer concrete shall be included in the cost of the proposed Polymer Concrete.



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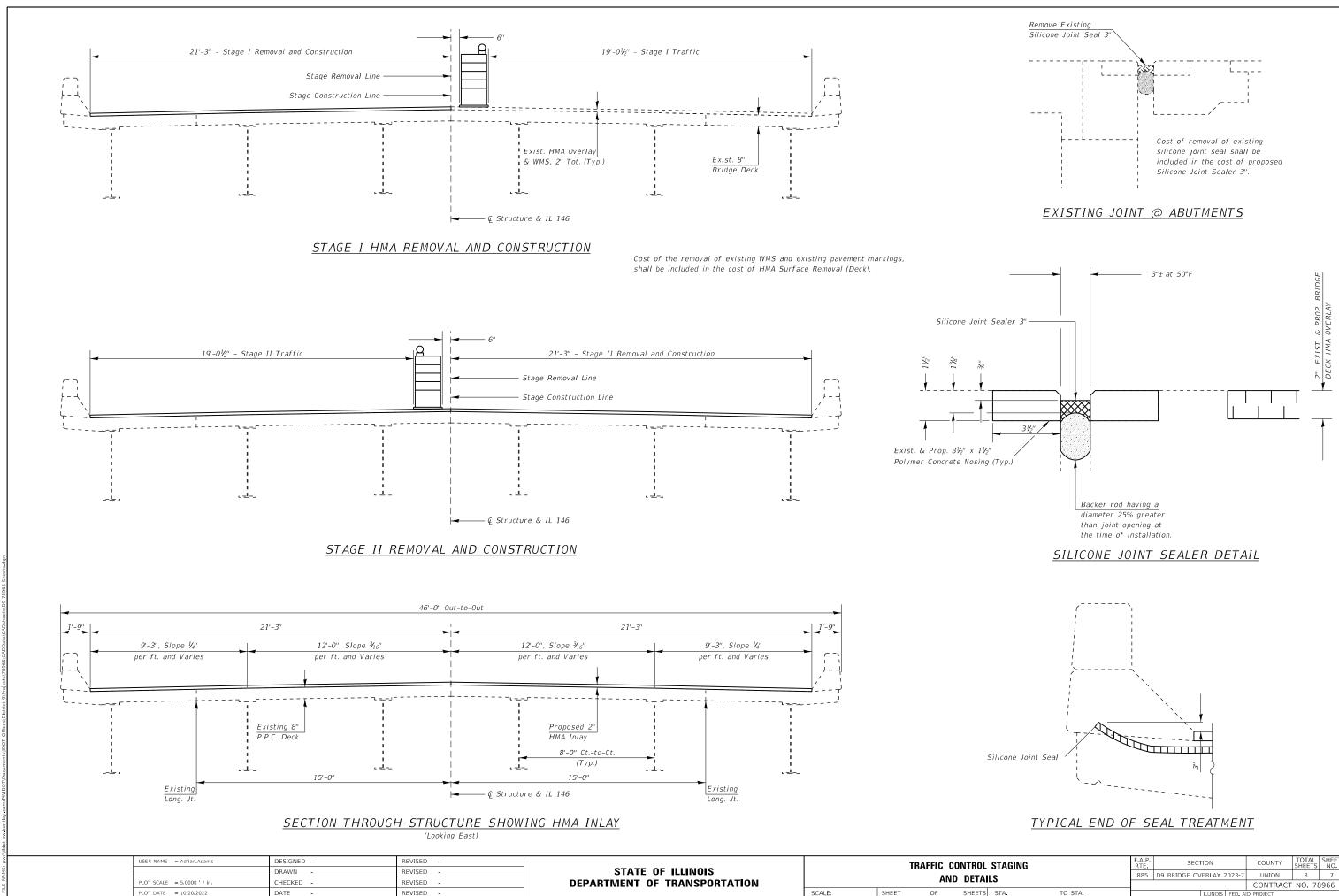
### TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANITY
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N70	Ton	198
Paint Pavement Marking – Line 6"	Foot	1209
Deck Slab Repair (Partial)	Sq. Yd.	55
Silicone Joint Sealer, 3"	Foot	92
Polymer Concrete	Cu. Ft.	6.2
HMA Surface Removal (Deck)	Sq Yd	1760

JSER NAME = Adrian Adam DESIGNED -REVISED -DRAWN -REVISED -HECKED -REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION **GENERAL PLAN AND ELEVATION** 885 D9 BRIDGE OVERLAY 2023-7 UNION SN 091-0060 CONTRACT NO. 78966 SHEET SHEETS STA TO STA.



MODEL: Default

