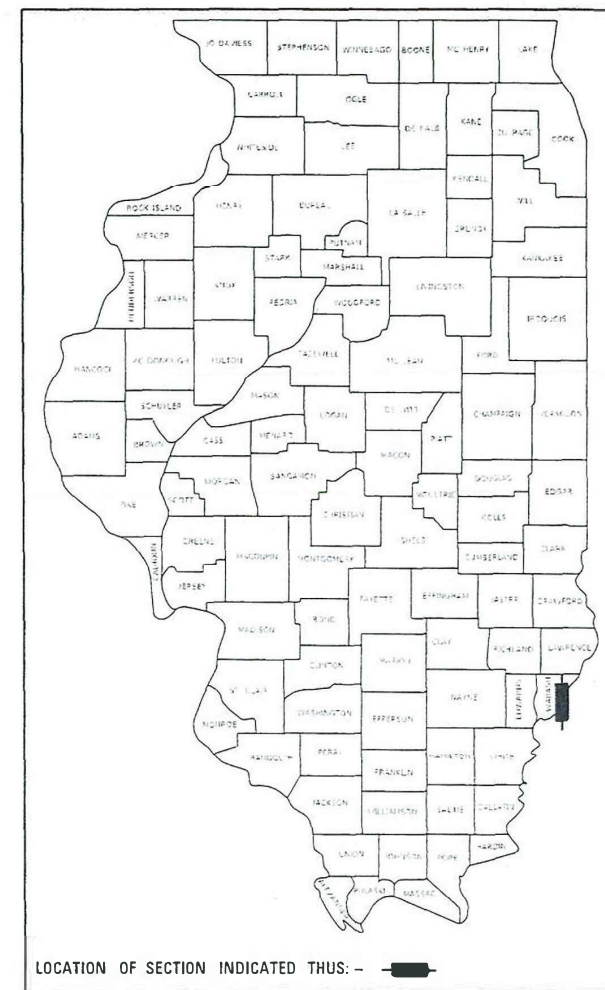


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR) BDR	WABASH	19	1
		ILLINOIS	CONTRACT NO. 74948	

D-97-024-20



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

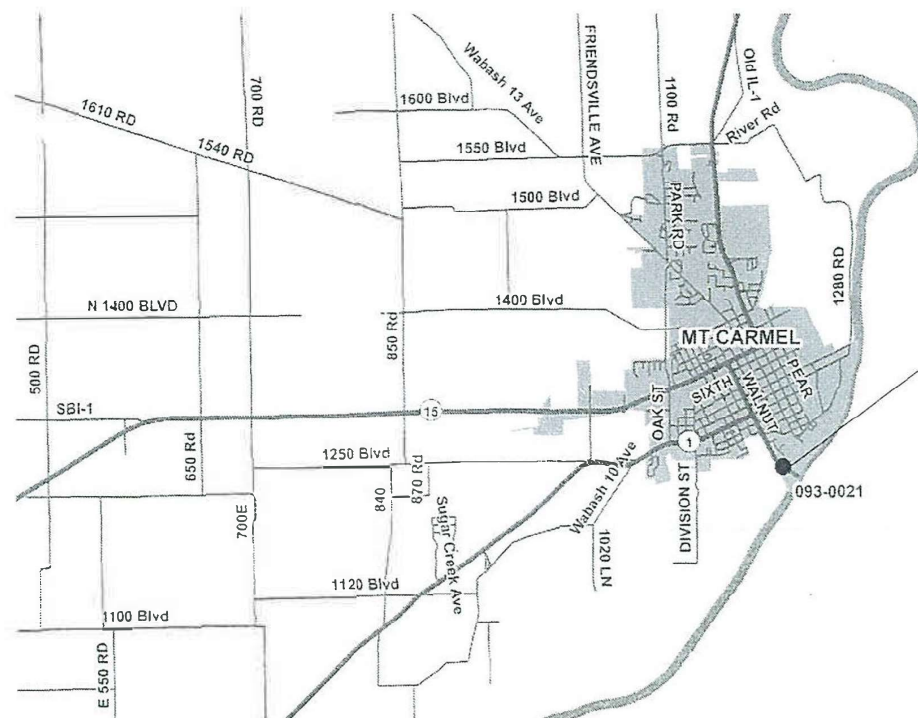
FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

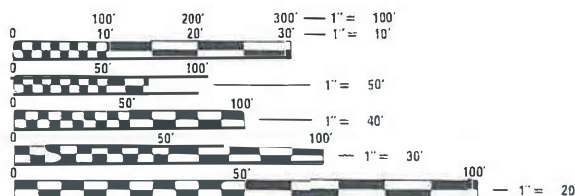
FAP ROUTE 827 (ILL 15)  
SECTION (12Z-3, 12BR)BDR  
PROJECT NHPP-P4KK(570)  
BRIDGE DECK THIN POLYMER OVERLAY  
WABASH COUNTY

C-97-025-20

ADT = 8,150 (2019)



STRUCTURE # 093-0021  
STA. 1021 + 66.34  
TO  
STA. 1050 + 87.33



FULL SIZE PLANS 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 EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: TOM RONAN  
PROJECT MANAGER: REID TORBECK

CONTRACT NO. 74948

GROSS LENGTH = 2,920.99 FT. = 0.55 MILE  
NET LENGTH = 2,920.99 FT. = 0.55 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 24 2021  
Jeffrey P. Myerles  
REGIONAL ENGINEER

October 1 2021  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

October 21 2021  
Stephen M. Lewis  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-9	STAGE CONSTRUCTION DETAILS
10-12	STRIPING PLAN
13-17	STRUCTURE PLANS
18-19	TRAFFIC COUNTER DETAILS

## GENERAL NOTES

THE WORK INCLUDED IN THIS SECTION CONSISTS OF PLACEMENT OF A WEARING SURFACE ON STRUCTURE # 093-0021 WABASH RIVER BRIDGE ON FAP 827 LOCATED AT MT. CARMEL. THE PROJECT INCLUDES REMOVAL OF RAISED REFLECTIVE PAVEMENT MARKERS, THIN POLYMER OVERLAY AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

FOR LOCATION OF TRAFFIC COUNTERS CONTACT RYAN PETERSEN AT  
 Email Ryan.Petersen@Illinois.gov  
 Phone (217)-342-8247

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING SHEET NUMBER 19.

STD NO.	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
000001-08	DECIMAL OF AN INCH AND OF A FOOT
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' MINIMUM FROM PAVEMENT EDGE
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' AWAY TO EDGE OF PAVEMENT
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >=45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
704001-08	TEMPORARY CONCRETE BARRIER
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
838001-01	BREAKAWAY DEVICES
878001-11	CONCRETE FOUNDATIONS

REV. - MS

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		DRAWN -	REVISED -			827	(12Z-3, 12BR)BDR	WABASH	19	2	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74948					
	PLOT DATE = 8/24/2021	DATE -	REVISED -			SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		047		
61100605	MISCELLANEOUS CONCRETE	CU YD	0.3	0.3		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	2	2		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1		
	701321					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701201					
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	4133	4133		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	315	315		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	104	104		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3149	3149		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3149	3149		
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		047		
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2		
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	520	520		
73400100	CONCRETE FOUNDATIONS	CU YD	1.4	1.4		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	14115	14115		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	36	36		
X0323388	TRAFFIC COUNTER	EACH	1	1		
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	22200	22200		
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SQ YD	15480	15480		
Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	15480	15480		
Z0041895	POLYMER CONCRETE	CU FT	7	7		

\* SPECIALTY ITEM

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PLOT DATE = 8/24/2021	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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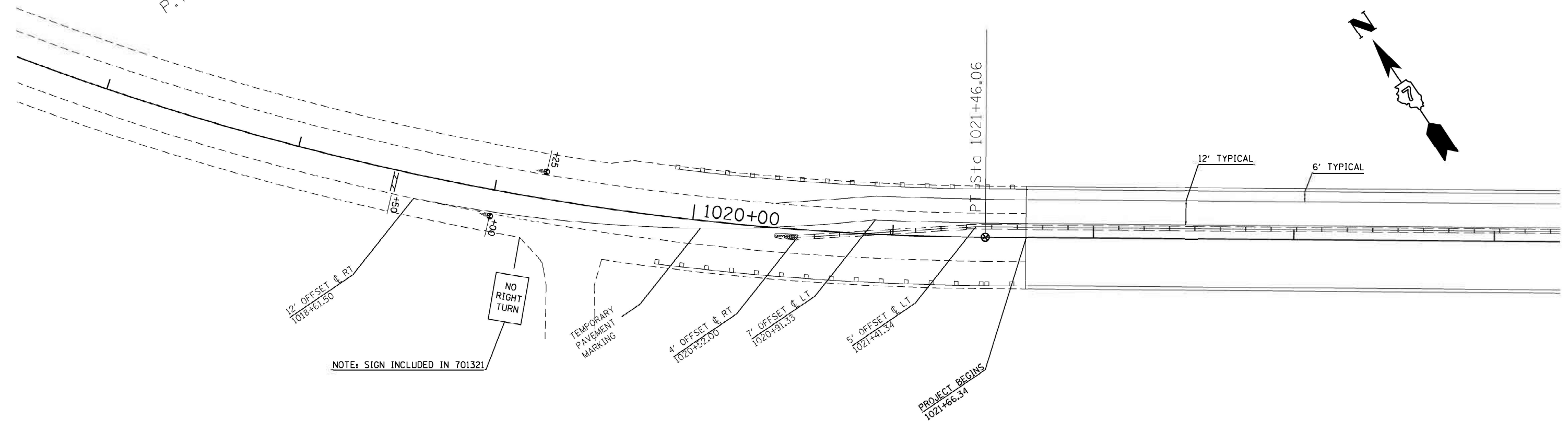
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827	(12Z-3, 12BR)BDR	WABASH	19	3
			CONTRACT NO. 74948	
ILLINOIS FED. AID PROJECT				

PI STA. = 1017+82.61  
 $\Delta = 30^\circ 30' 49''$  (LT)  
 $D = 4^\circ 05' 44''$  (LT)  
 $R = 1,398.94'$   
 $T = 381.57'$   
 $L = 745.02'$   
 $e = 51.11'$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1014+01.04  
 P.T. STA. = 1021+46.06

PAVEMENT MARKING BLACKOUT TAPE, 5"					
STATIONING		LENGTH	SIDE	4" WHITE SOLID EDGE LINE	4" YELLOW SOLID DBL CENTER LINE
FROM	TO	(FOOT)	(LT/RT/CL)	(FT)	(FT)
<b>STAGE 1</b>					
1019+25.00	1020+83.00	158.0	CL		316
1020+40.00	1052+47.00	3207.0	LT	3,207	
1051+65.00	1053+27.00	162.0	CL		324
STAGE 1 TOTALS				3,207	640

IMPACT ATTENUATORS, TEMP (NON-REDIRECTIVE) TL 2			
1020+52		1	EACH
1052+01		1	EACH
TOTALS		2	EACH

TEMPORARY CONCRETE BARRIER			
STAGE 1			
1020+52	TO	1052+01	3,149 FOOT



NOTE: SIGN INCLUDED IN 701321

SEE STANDARD 701321 FOR DETAILS NOT SHOWN.

FOR STAGING DIMENSIONS SEE CROSS-SECTION DETAIL ON SHEET # 17

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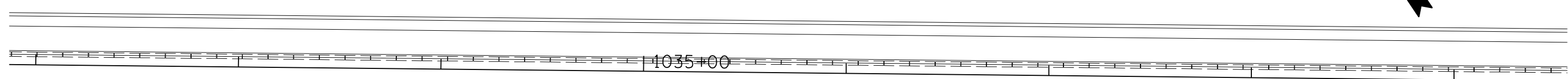
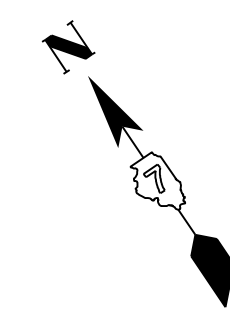
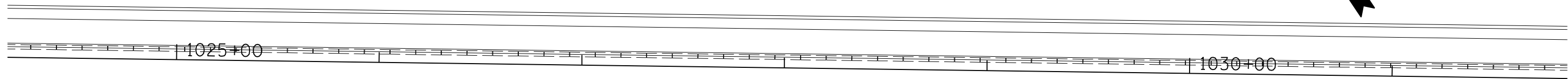
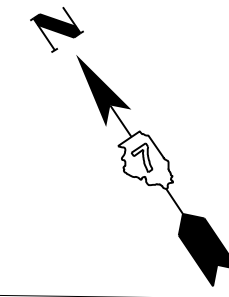
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:			
SHEET 1	OF 3	SHEETS	STA. TO STA.

STAGE 1 CONSTRUCTION  
STRUCTURE #093-0021 - WABASH RIVER

F.A.P. RTE. 827	SECTION (12Z-3, 12BR)BDR	COUNTY WABASH	TOTAL SHEETS 19	SHEET NO. 4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74948	



FOR STAGING DIMENSIONS SEE  
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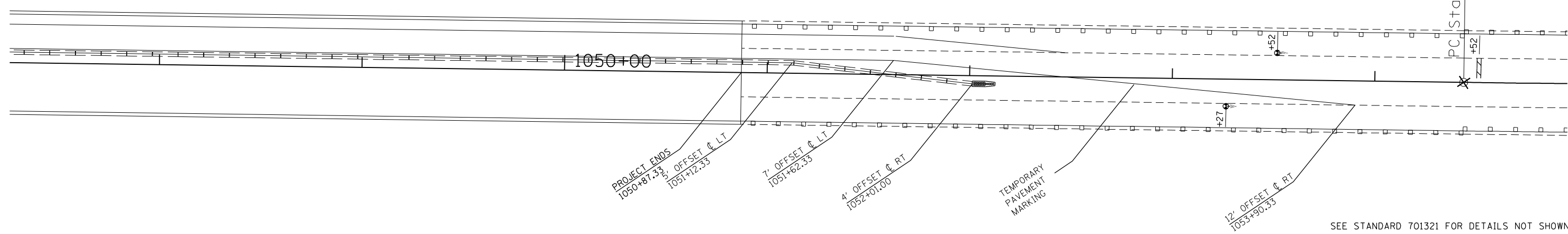
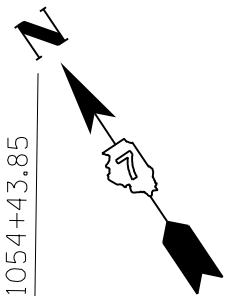
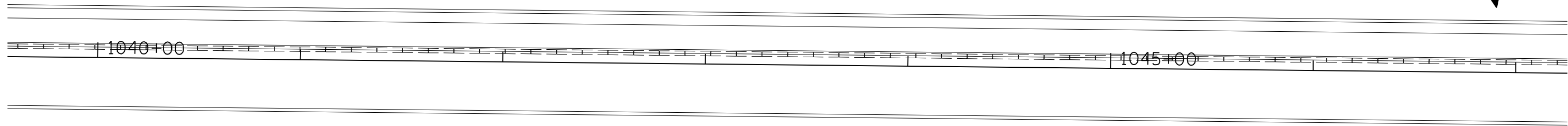
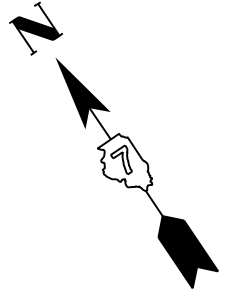
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PLOT DATE = 8/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION**  
**STRUCTURE #093-0021 - WABASH RIVER**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74948	



SEE STANDARD 701321 FOR DETAILS NOT SHOWN.

FOR STAGING DIMENSIONS SEE CROSS-SECTION DETAIL ON SHEET # 17

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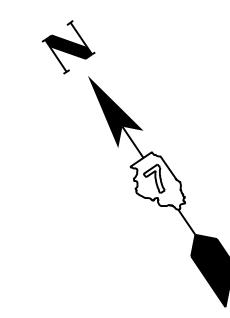
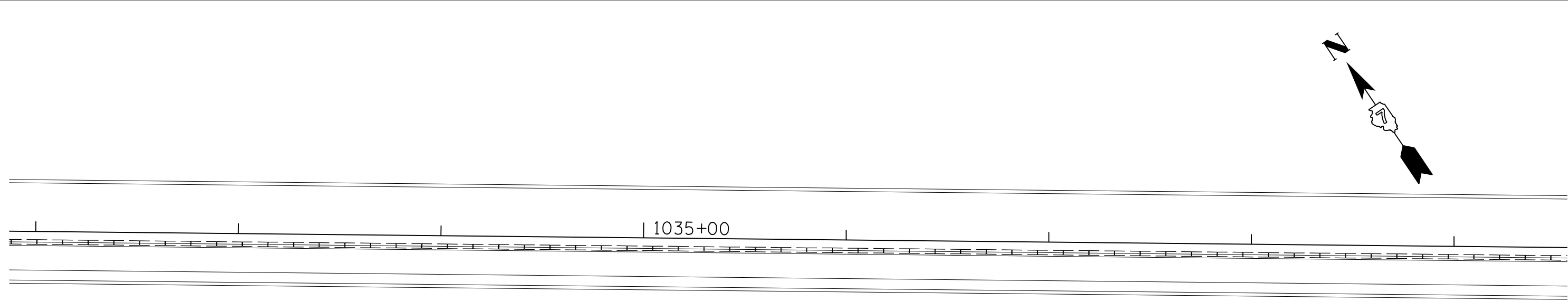
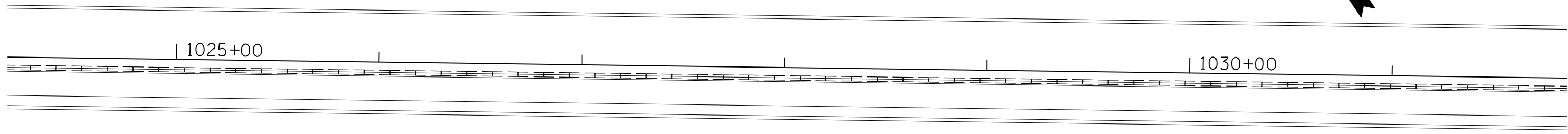
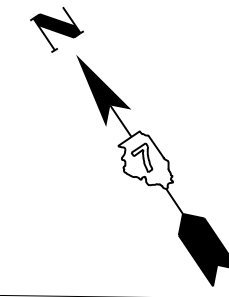
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION**  
**STRUCTURE #093-0021 - WABASH RIVER**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74948	





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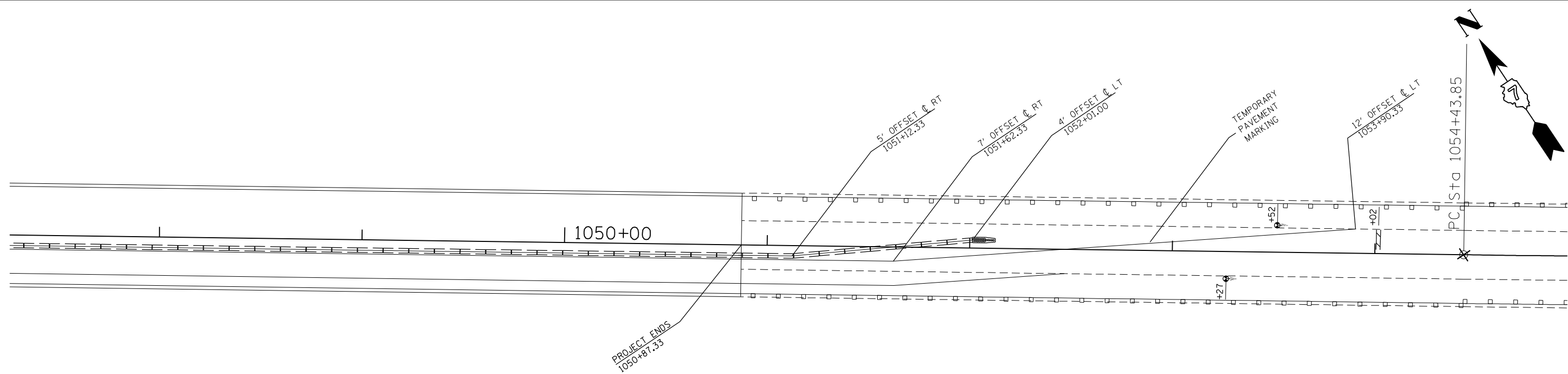
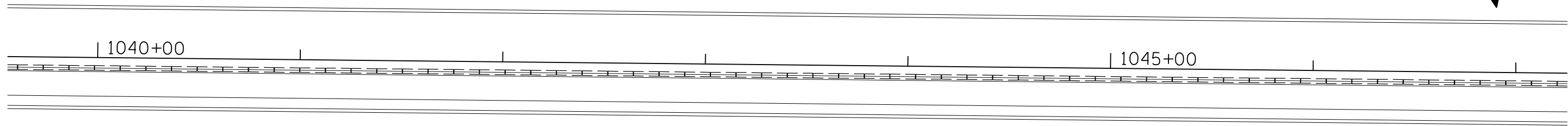
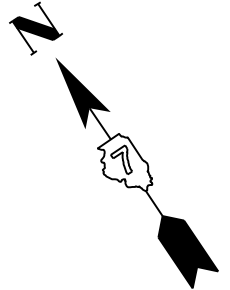
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGE 2 CONSTRUCTION**  
**STRUCTURE #093-0021 - WABASH RIVER**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74948	





SEE STANDARD 701321 FOR DETAILS NOT SHOWN.

FOR STAGING DIMENSIONS SEE CROSS-SECTION DETAIL ON SHEET # 17

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

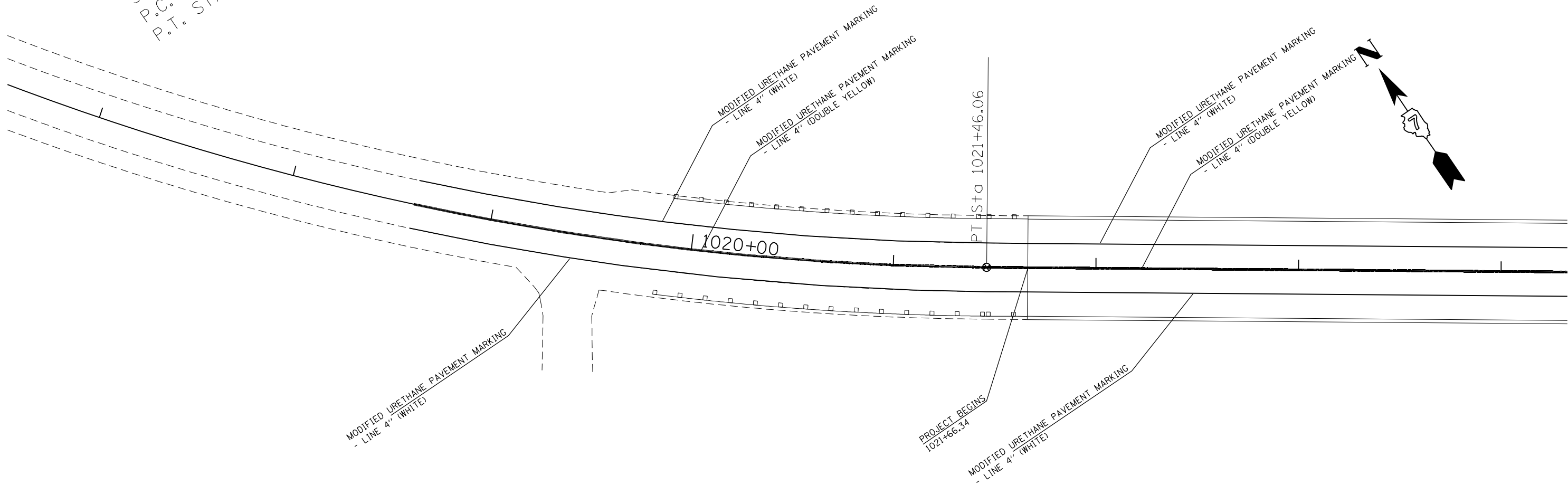
**STAGE 2 CONSTRUCTION**  
**STRUCTURE #093-0021 - WABASH RIVER**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	9
CONTRACT NO. 74948				
ILLINOIS FED. AID PROJECT				

PI STA. = 1017+82.61  
 $\Delta = 30^\circ 30' 49''$  (LT)  
 $D = 4^\circ 05' 44''$   
 $R = 1,398.94'$   
 $L = 381.57'$   
 $E = 745.02'$   
 $e = 51.11'$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1014+01.04  
 P.T. STA. = 1021+46.06

MODIFIED URETHANE PAVEMENT MARKING - LINE 4"					
STATIONING		LENGTH	SIDE	4" WHITE SOLID EDGE LINE	4" YELLOW SOLID DBL CENTER LINE
FROM	TO	(FOOT)	(LT/RT/CL)	(FT)	(FT)
1018+61.50	1053+90.33	3528.83	LT	3,528.8	
1018+61.50	1053+90.33	3528.83	CL		7,057.7
1018+61.50	1053+90.33	3528.83	RT	3,528.8	
SUB-TOTALS				7,057.6	7,057.7
TOTAL				14,115	



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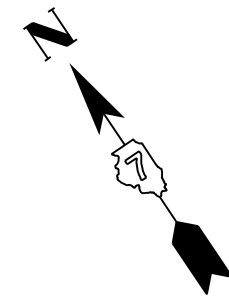
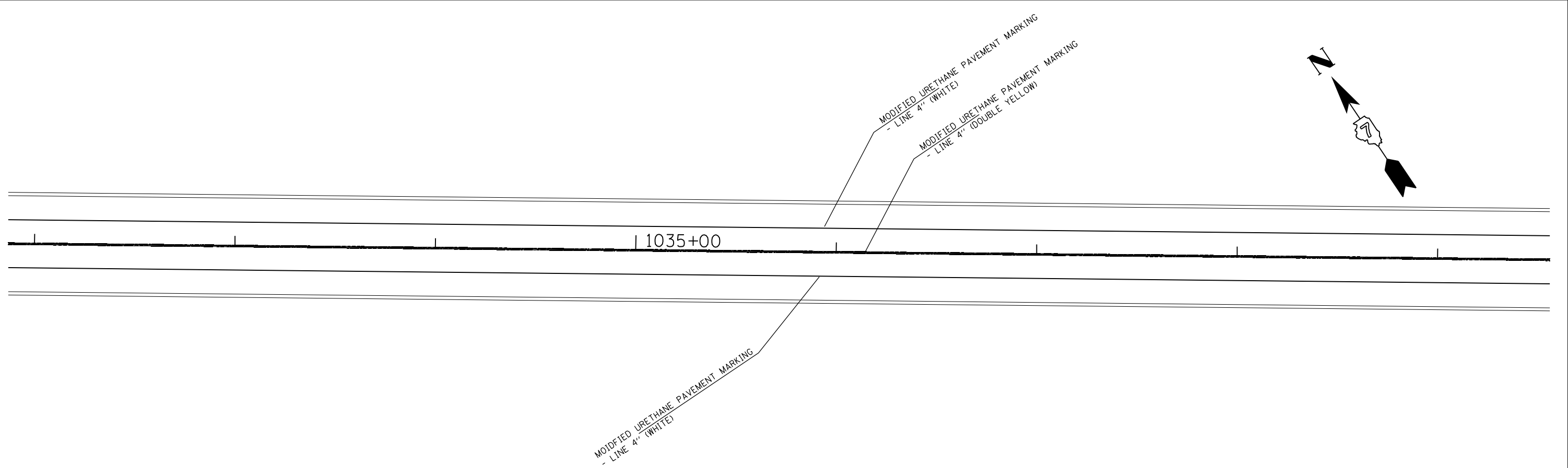
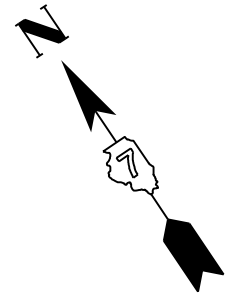
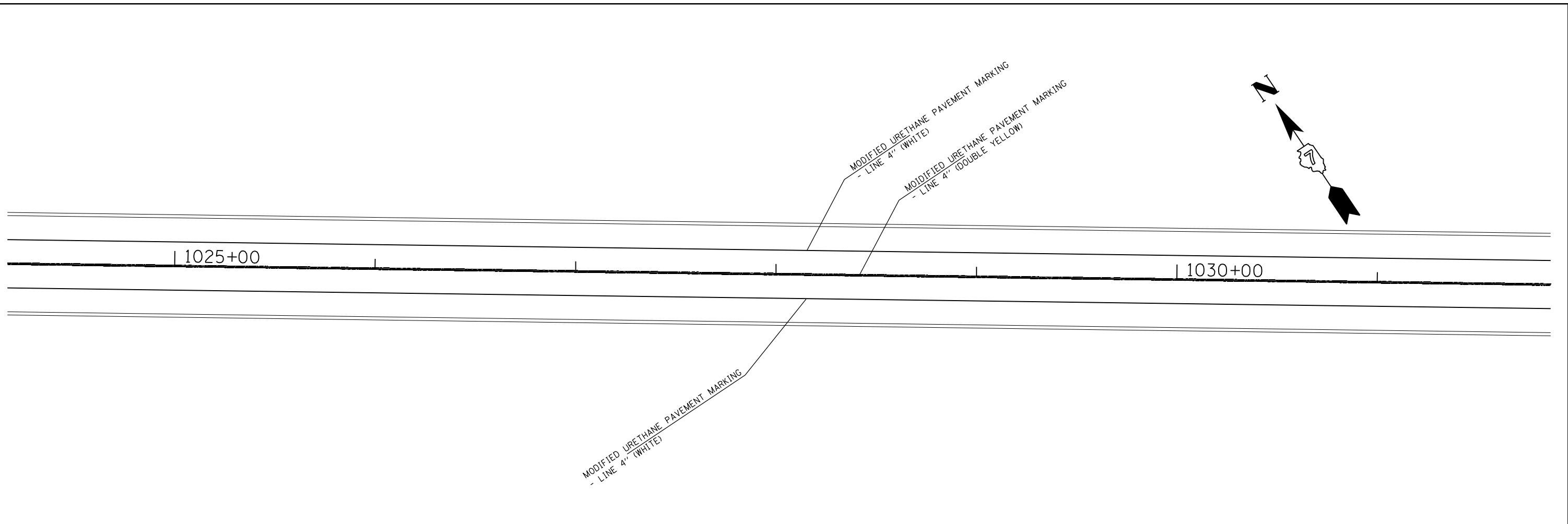
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLAN</b> <b>STRUCTURE #093-0021 - WABASH RIVER</b>			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE. = 827	SECTION = (12Z-3, 12BR)BDR	COUNTY = WABASH	TOTAL SHEETS = 19	SHEET NO. = 10
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 74948

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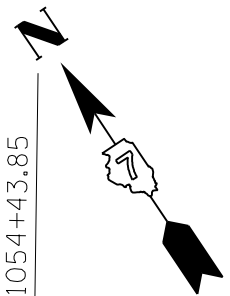
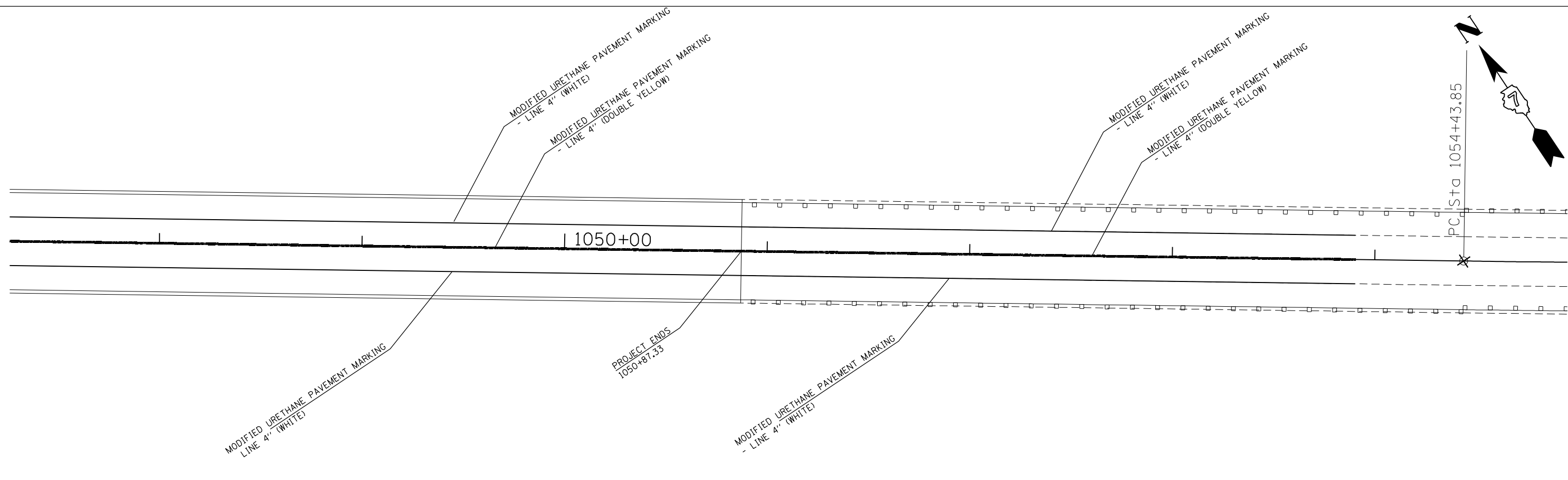
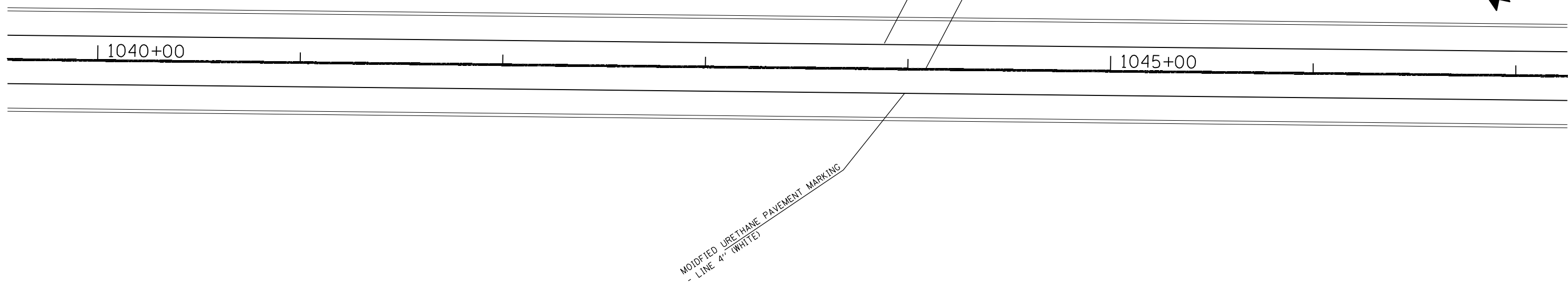
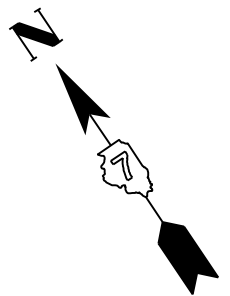
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PLOT DATE = 8/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 STRUCTURE #093-0021 - WABASH RIVER**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74948	



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PLOT DATE = 8/24/2021	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**STRUCTURE #093-0021 - WABASH RIVER**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	12
CONTRACT NO. 74948				
ILLINOIS FED. AID PROJECT				

Structure 093-0021 was built in 2010 as FAP Route 827 (IL 15) Section 12Z-3, 12BR. The existing 20 span structure has a combination of PCC bulb tee beams and steel plate girders, with a composite concrete deck. The proposed work includes bridge deck scarification and a thin polymer overlay, with associated work.

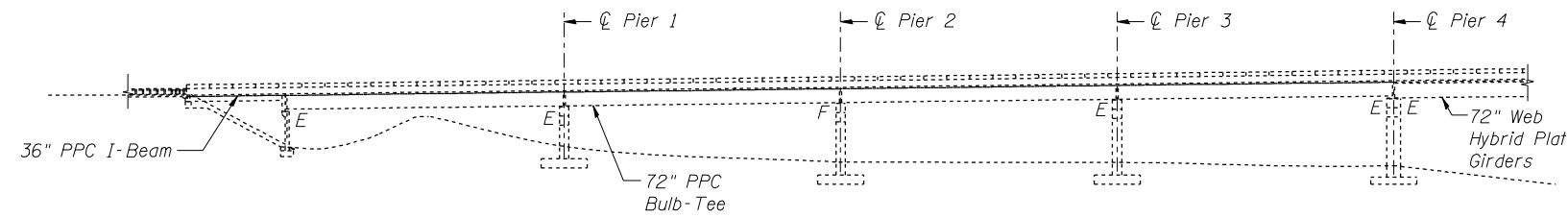
**GENERAL NOTES**

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 furnished at the unit price bid for the work.

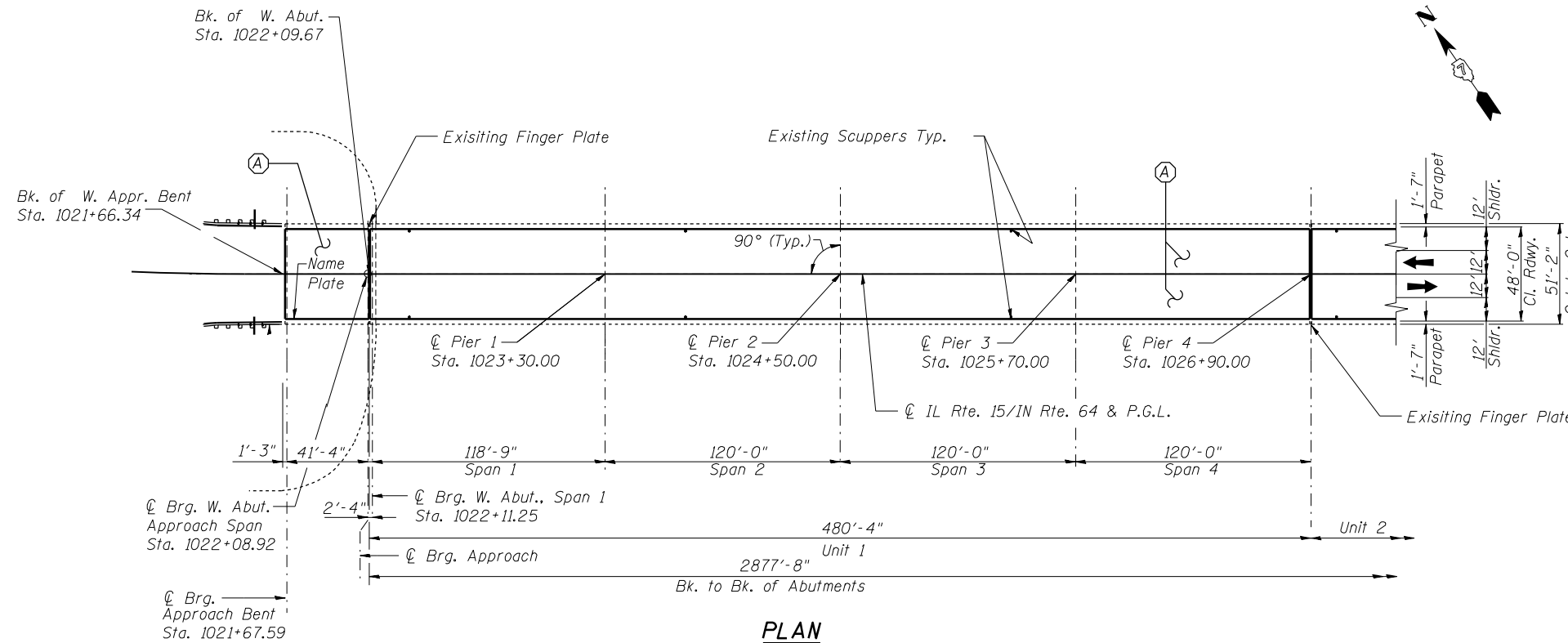
Existing raised reflective pavement markers are to be removed within the limits of the proposed polymer overlay. The contractor shall saw cut minimum 3/4" deep around the markers and completely remove the marker. Chipping tools shall be used to remove all existing adhesive and remove enough concrete to provide for a consistent depth repair area. Removal of the reflector, adhesive and surrounding concrete shall be paid for as RAISED REFLECTIVE PAVEMENT MARKER REMOVAL. The removal areas shall be repaired, flush with existing deck surface, with POLYMER CONCRETE prior to placement of polymer overlay. Follow manufacturers guidelines for curing of POLYMER CONCRETE.

The limits of the CONCRETE BRIDGE DECK SCARIFICATION will be at the edges of existing finger plate expansion joint assemblies. The Contractor shall use extreme care to prevent damage to joint assemblies, and use of hand tools may be necessary. Any damage to expansion joint assemblies shall be repaired at Contractor expense.

BRIDGE DECK CONCRETE SEALER to be applied to top and front face of parapets only.

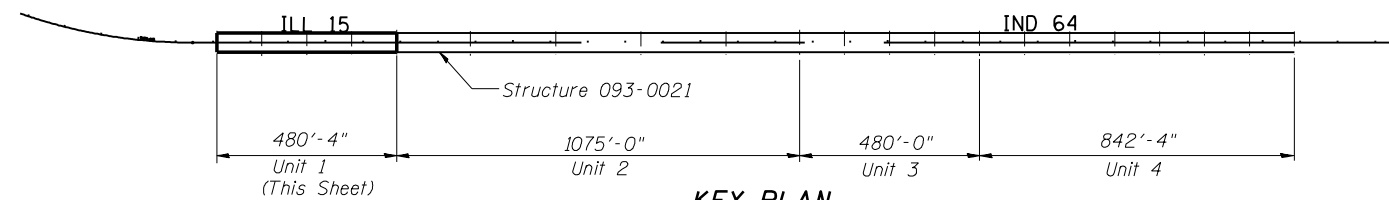


**ELEVATION**



**PLAN**

(A) - Concrete Bridge Deck Scarification, 3/8" and Bridge Deck Thin Polymer Overlay, 3/8"



**KEY PLAN**



Expires 11-30-2022

*David Carl Puzey*

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Concrete Bridge Deck Scarification, 3/8"	Sq. Yd.	15480
Bridge Deck Thin Polymer Overlay, 3/8"	Sq. Yd.	15480
Raised Reflective Pavement Marker Removal	Each	36
Polymer Concrete	Cu. Ft.	7.0
Bridge Deck Concrete Sealer	Sq. Ft.	22200

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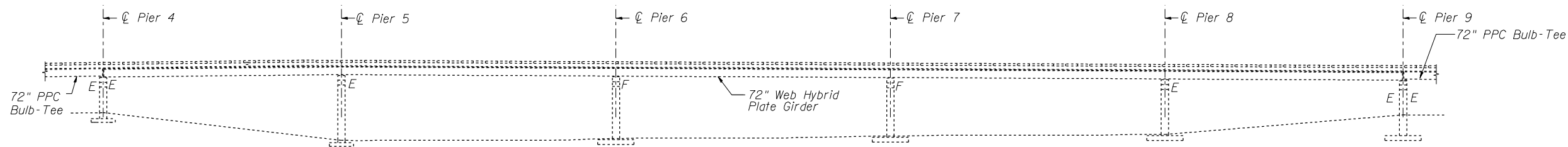
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PLOT DATE = 9/22/2021	DATE - February 2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

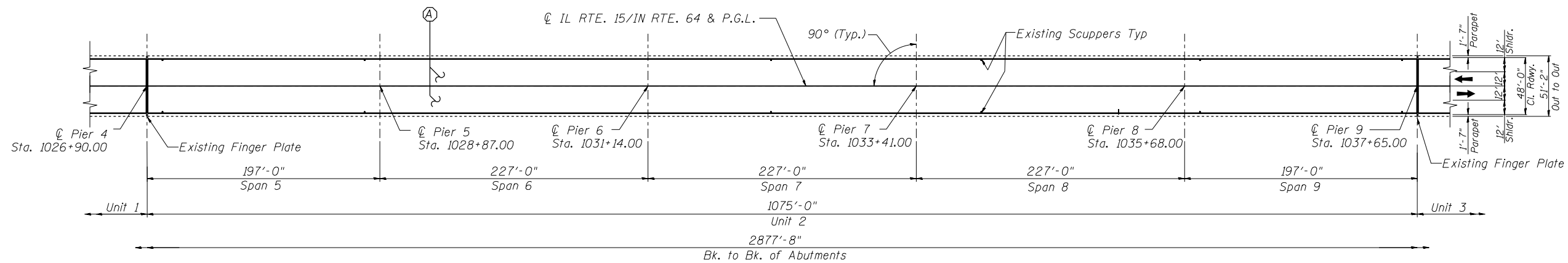
**GENERAL PLAN & ELEVATION & GENERAL NOTES  
STRUCTURE 093-0021**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

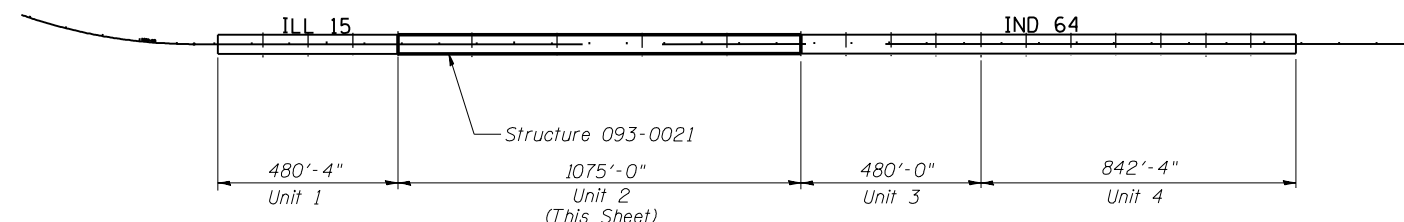
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827	(12Z-3, 12BR)BDR	WABASH	19	13
CONTRACT NO. 74948			ILLINOIS FED. AID PROJECT	



**ELEVATION**



**PLAN**



**KEY PLAN**

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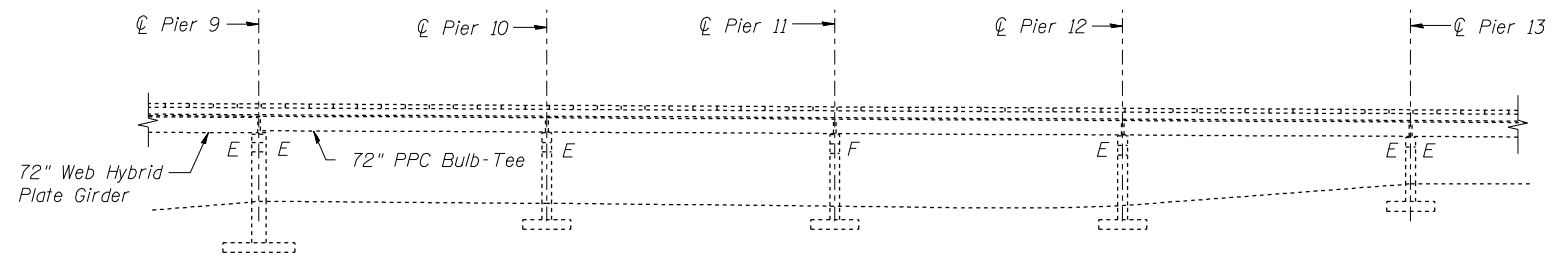
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

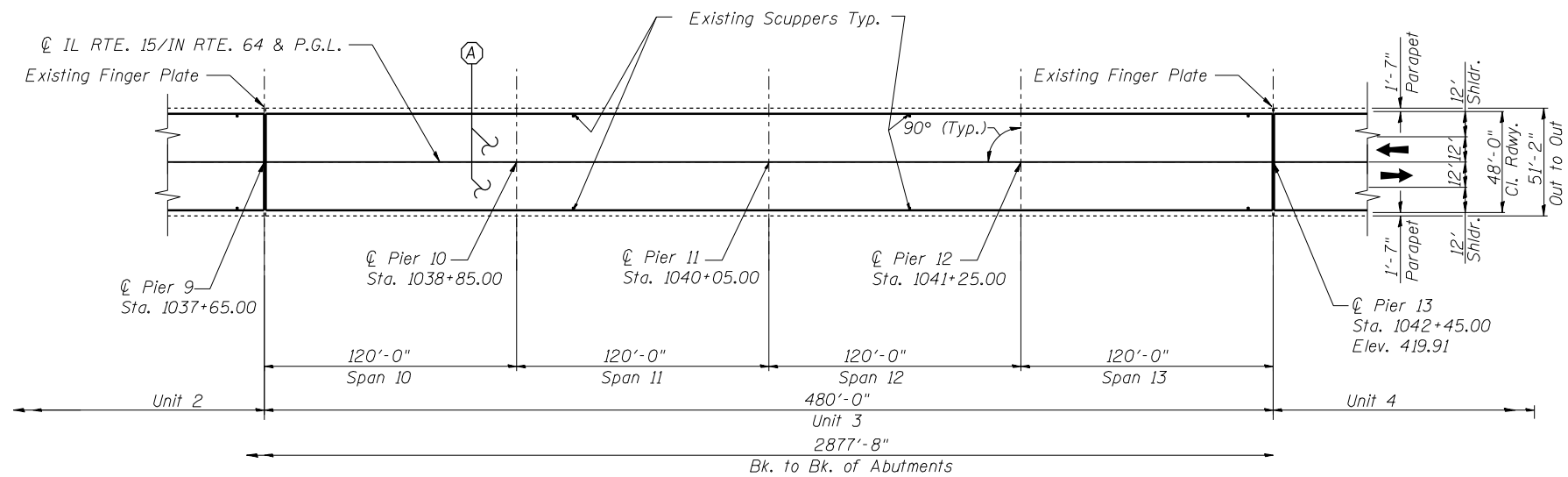
**GENERAL PLAN & ELEVATION  
STRUCTURE 093-0021**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74948				
ILLINOIS FED. AID PROJECT				

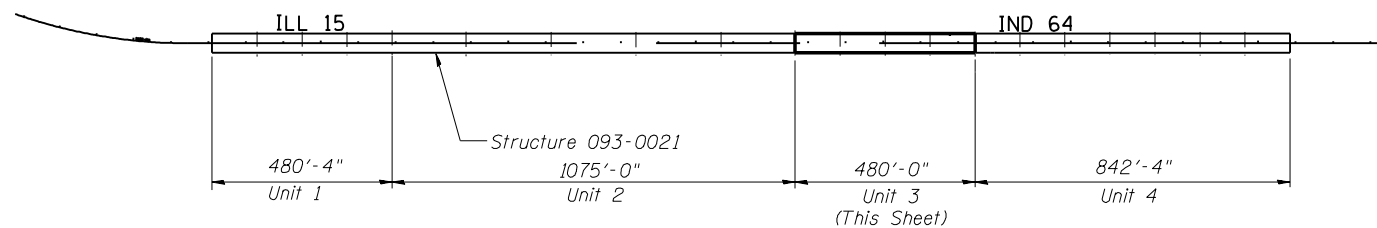


**ELEVATION**



**PLAN**

Ⓐ - Concrete Bridge Deck Scarification,  $\frac{3}{8}$ " and Bridge Deck Thin Polymer Overlay,  $\frac{3}{8}$ "



**KEY PLAN**

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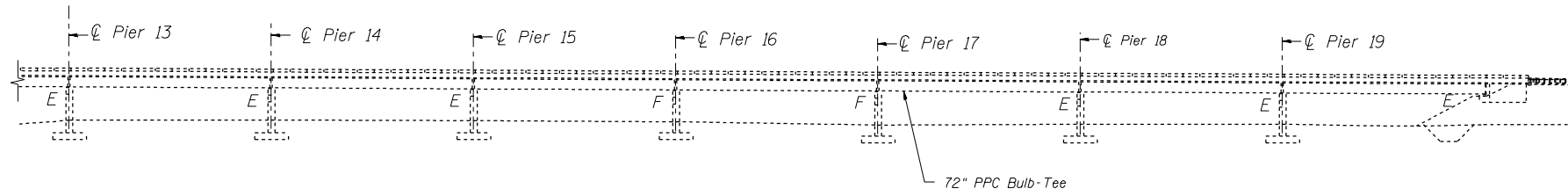
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

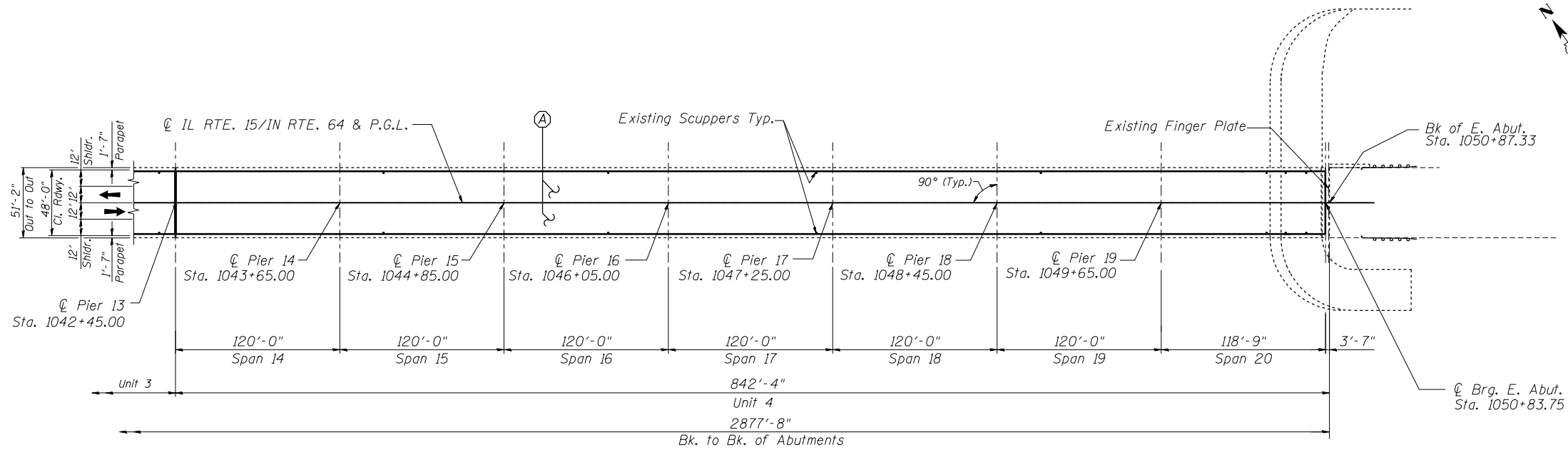
**GENERAL PLAN & ELEVATION  
STRUCTURE 093-0021**

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CONTRACT NO. 74948			ILLINOIS FED. AID PROJECT	

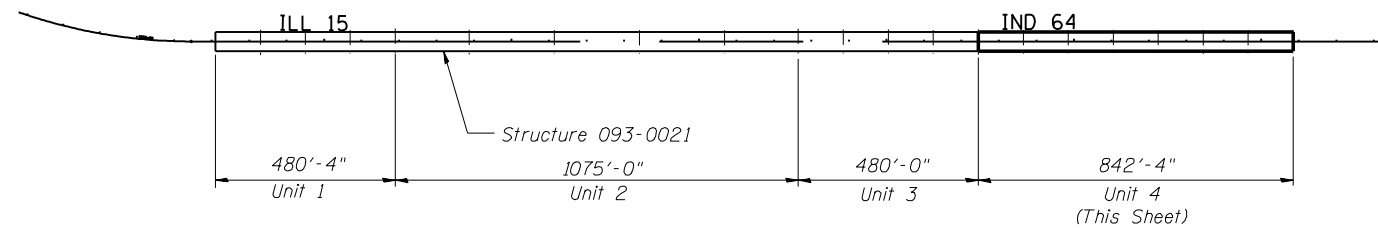


**ELEVATION**



**PLAN**

Ⓐ - Concrete Bridge Deck Scarification,  $\frac{3}{8}$ " and Bridge Deck Thin Polymer Overlay,  $\frac{3}{8}$ "



**KEY PLAN**

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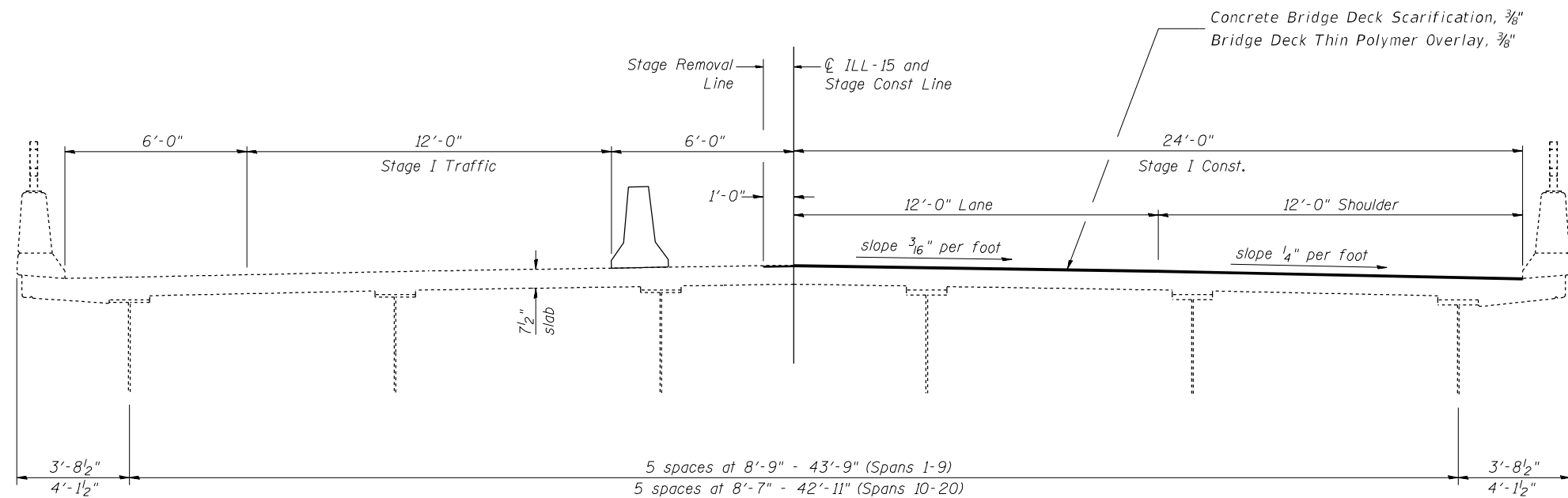
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION  
STRUCTURE 093-0021**

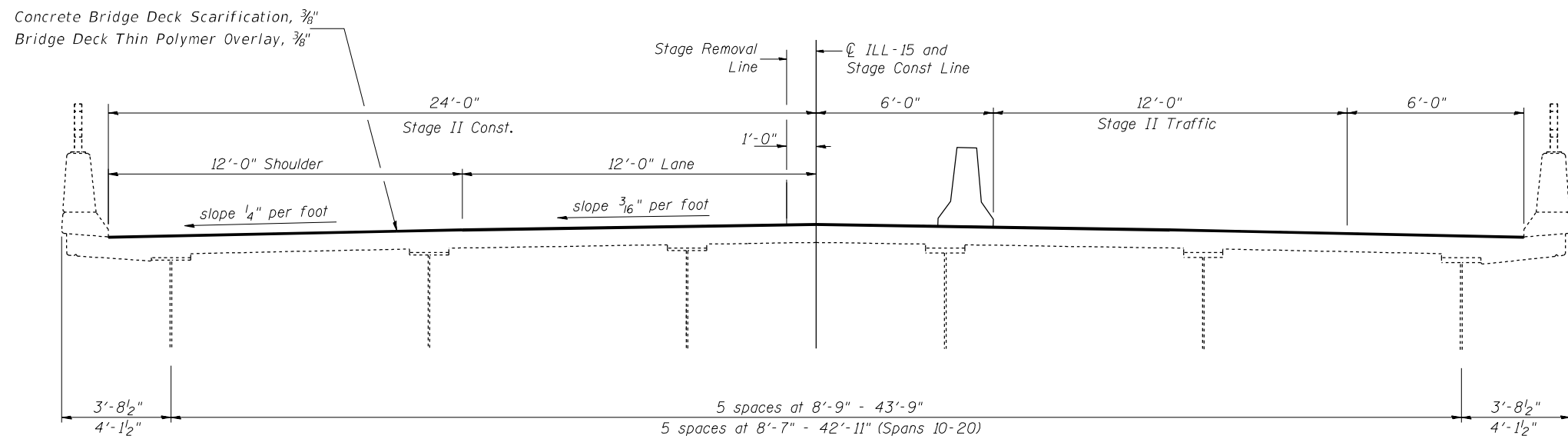
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827	(12Z-3, 12BR)BDR	WABASH	19	16
CONTRACT NO. 74948				
ILLINOIS FED. AID PROJECT				





**Stage I Cross-Section**  
 (Looking East)



**Stage II Cross-Section**  
 (Looking East)

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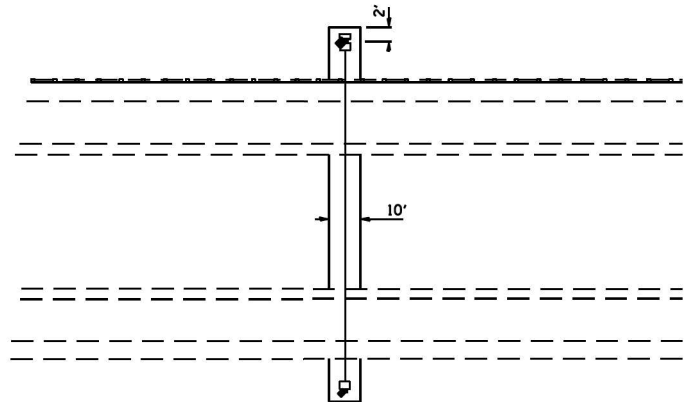
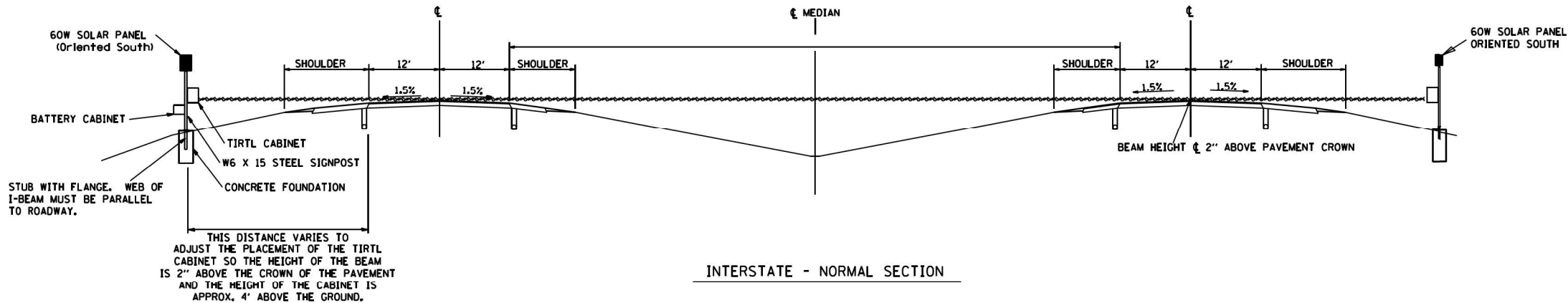
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PLOT DATE = 8/24/2021	DATE - February 2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAIL  
 STRUCTURE 093-0021**

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74948			ILLINOIS FED. AID PROJECT	

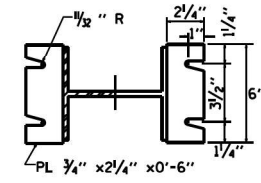
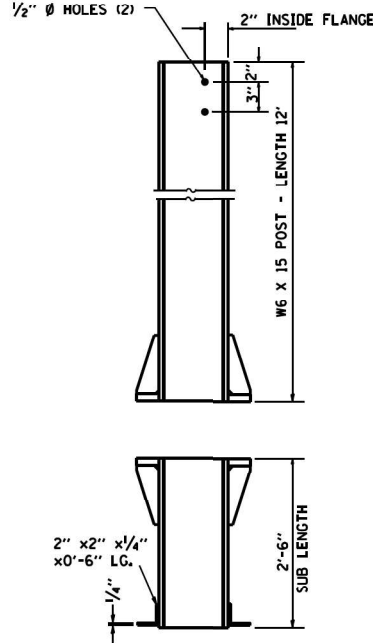
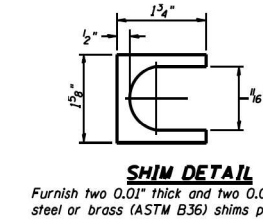
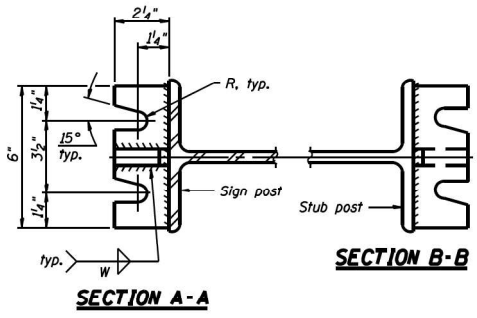
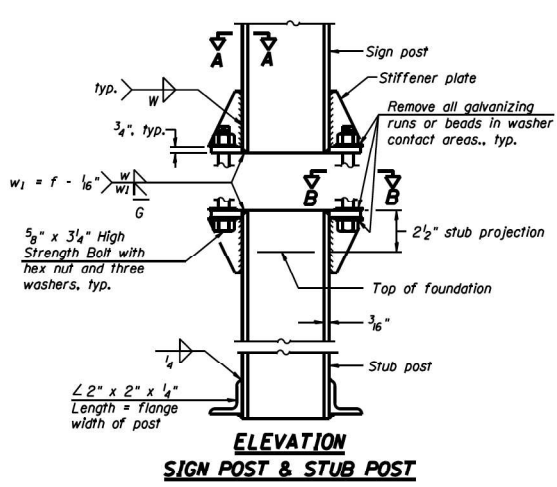
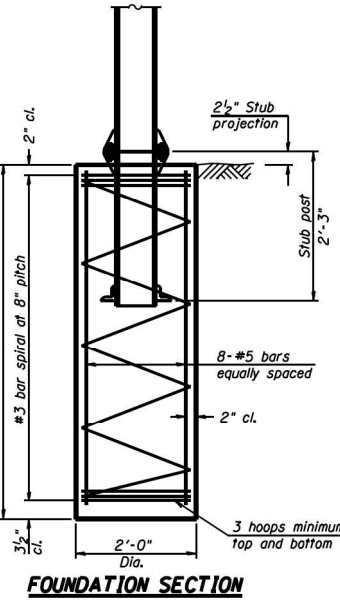


Weed Barrier - PCC concrete shd be placed as shown 8' to 10' wide and 4" thick as per the special provision

- NOTES:
1. SYSTEM CONSISTS OF TWO W6 X 15 I-BEAM SIGNPOSTS WITH CONCRETE FOUNDATION AND A FLANGE WITH BREAKAWAY BOLTS
  2. THE I-BEAMS ARE 12' LONG AND DRILLED AS PER THE I-BEAM DETAIL TO ACCOMMODATE A PIPE TO ALLOW THE MOUNTING OF THE SOLAR PANEL.
  3. THE WEB OF THE I-BEAM IS TO BE PLACED PARALLEL TO THE LANES.
  4. THE TWO POSTS MUST BE PLACED DIRECTLY ACROSS FROM EACH OTHER AND PERPENDICULAR TO THE LANES.
  5. TWO POSTS ARE REQUIRED LOCATED AS PER THE ENGINEER AND DRAWING.
  6. THE CABINETS ARE ATTACHED TO THE I-BEAM USING 8" GALVANIZED J-BOLTS.
  7. THE BOTTOM OF THE CABINET HEIGHT MUST BE NO LOWER THAN 4' ABOVE THE GROUND AND BE ABLE TO VIEW ACROSS ALL LANES AT THE CROWN OF THE PAVEMENT.
  8. THE IDOT OFFICE OF PLANNING AND PROGRAMMING DATA MANAGEMENT LAB RICH MARX (217-782-2065) MUST BE NOTIFIED TWO WEEKS PRIOR TO THE LAYOUT AND MUST BE PRESENT DURING THE LAYOUT AND PLACEMENT OF THE POST FOUNDATIONS.

**TIRTL TRAFFIC COUNTER SCHEDULE OF QUANTITIES (FOR INFORMATION ONLY)**

CODE NUMBER	ITEM	UNIT	QUANTITY
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	520
73400100	CONCRETE FOUNDATIONS	CU YD	1.4
X0323388	TRAFFIC COUNTER SYSTEM (INCLUDES BELOW)	EACH	1
<b>TIRTL TRAFFIC DATA COLLECTION SYSTEM INCLUDES:</b>			
	Sierra Wireless Modem RV-50	EACH	1
	Panorama Low Profile LTE MIMO LGAM-BC3G-26-35P Antenna	EACH	1
	TIRTL CABINET 15" X 27" X 16"	EACH	2
	BATTERY CABINET 16.5" X 16" X 11.5" BBA1M w/ #2 Police Lock	EACH	1
	SOLAR PANEL 60 W 12 VDC with Bracket and junction box	EACH	2
	TIRTL TRAFFIC COUNTER	EACH	1
	SUNSAVER SOLAR CHARGE REGULATOR 10 AMP 12 VDC	EACH	2
	BATTERY - 33 AH ABSORBED ELECTROLYTE 8" X 5.5" X 7" (DEEP CYCLE)	EACH	1
	BATTERY -104AH ABSORBED ELECTROLYTE 10" X 6" X 8" (DEEP CYCLE)	EACH	1



**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
 Structural steel - 20,000 p.s.i.  
 Reinforcing steel - 20,000 p.s.i.  
 Concrete - 1,400 p.s.i.  
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

**BREAK-AWAY WIDE FLANGE STEEL POST DETAILS**

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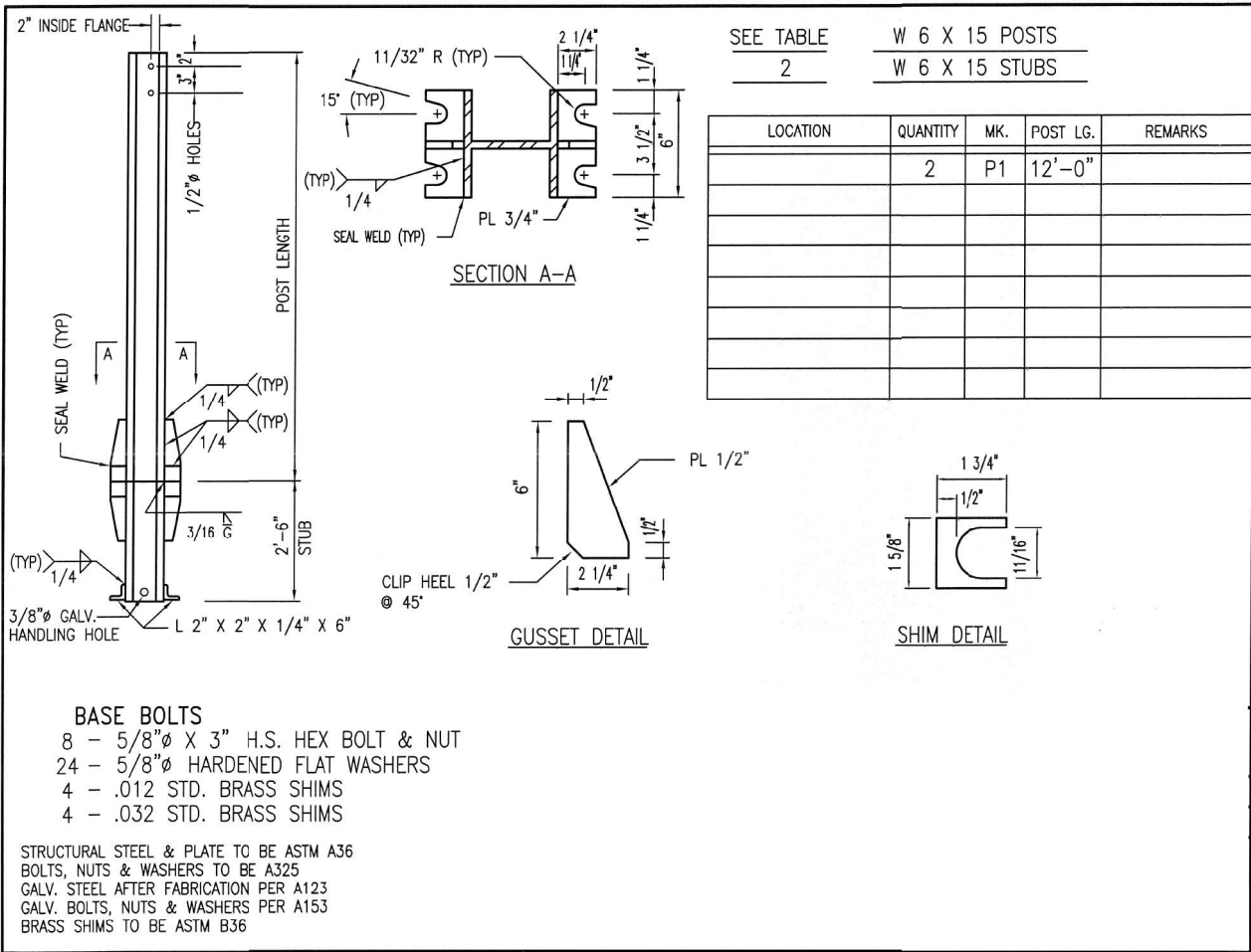
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**TRAFFIC COUNTER DETAILS**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	18
CONTRACT NO. 74948				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC COUNTER DETAILS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
827	(12Z-3, 12BR)BDR	WABASH	19	19
			CONTRACT NO. 74948	
		ILLINOIS	FED. AID PROJECT	