

INDEX OF SHEETS

06-14-2024 LETTING ITEM 126

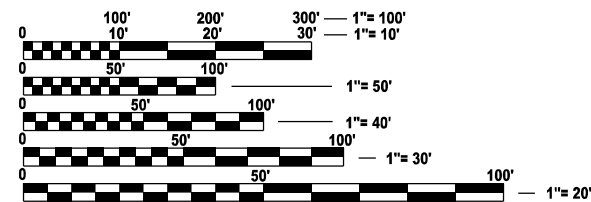
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- 3-5. SUMMARY OF QUANTITIES
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- 7. ALIGNMENT AND BENCHMARKS
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- 12. ISLAND REMOVAL AND REPLACEMENT
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- 20-21. TEMPORARY TRAFFIC SIGNALS - CABLE PLAN
- 22-33. STRUCTURE NO 046-0023 - REPAIR PLANS
- 34-45. STRUCTURE NO 046-0111 - REPAIR PLANS

HIGHWAY STANDARDS

BLR 10-8	PCC PAVEMENT SPECIAL (NONREINFORCED)
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
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
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS & MARKERS)
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES

**LOCATION NO. 1:
STRUCTURE NO. 046-0023
SECTION (6XBR)
STA. 21+62
OVER KANKAKEE RIVER**

**LOCATION NO. 2:
STRUCTURE NO. 046-0111
SECTION (6XBR-1)
STA. 26+75
OVER KANKAKEE RIVER**



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 EXCAVATION
1-800-892-0123
OR 811

**PROJECT ENGINEER: YOGESH PATEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66N52**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
HIGHWAY PLANS**

**F.A.P. ROUTE 132 (IL 1/17)
SECTION (6XBR, 6XBR-1)BRR
BRIDGE REPAIRS
KANKAKEE COUNTY**

C-93-088-23

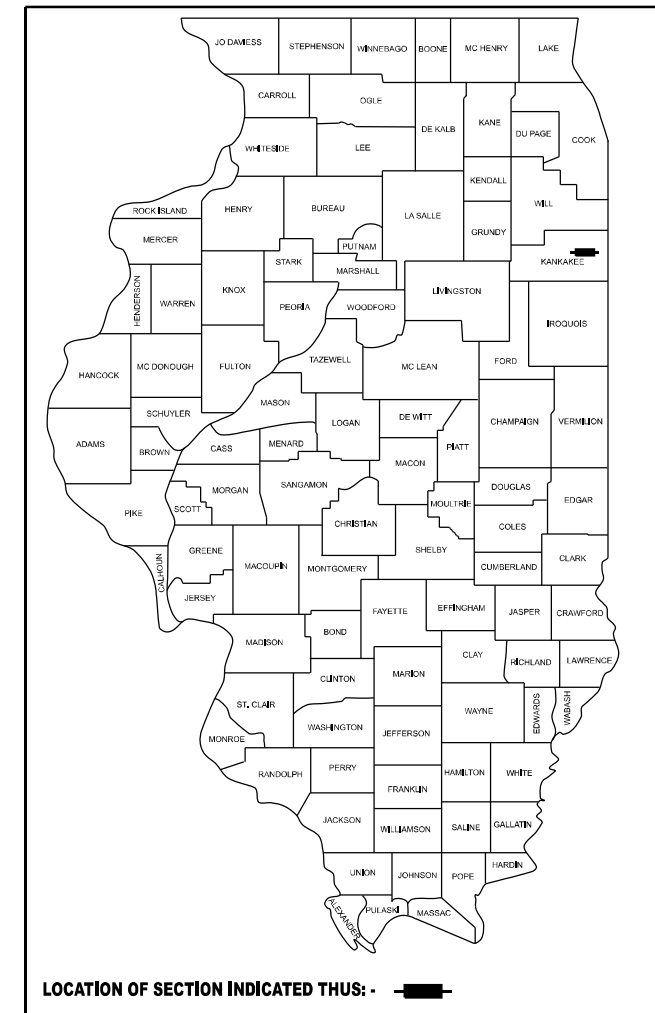


GROSS LENGTH = 936.96 FT. = 0.18 MILE
NET LENGTH = 936.96 FT. = 0.18 MILE

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	1
		ILLINOIS	CONTRACT NO. 66N52	

D-93-068-23



FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL
F.A.P. ROUTE 132 IL (1/17)
2023 ADT = 9650
P.V.=84.06% S.U.=9.69% M.U.=6.25%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 28, 2024
Trisha Thompson REGIONAL ENGINEER

May 10, 2024 *Scott A. Elk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *Stephen M. Smith*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

GENERAL NOTES

- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLANONE QUANTITIES.

SHORT TERM PAVEMENT MARKING 10 FT / 100 FT OF APPLICATION

COMMITMENTS

NONE.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

**START & END DATES
OF CONSTRUCTION:**

INSPECTORS:

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USER NAME = msomer	DESIGNED - MS	REVISED -
	DRAWN - SR	REVISED -
	CHECKED - JR	REVISED -
PLOT DATE = 3/11/2024	DATE - 01-29-2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
IL 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	2
			CONTRACT NO. 66N52	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE ROADWAY	100% STATE BRIDGE	100% STATE BRIDGE
				0021 URBAN	0047 S.N. 046-0023	0047 S.N. 046-0111
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10'	SQ YD	52	52		
50102400	CONCRETE REMOVAL	CU YD	28		14.8	13.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	27.8		14.8	13
50300300	PROTECTIVE COAT	SQ YD	318		224	94
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4430		2210	2220
50800515	BAR SPLICERS	EACH	48		24	24
50901750	PARAPET RAILING	FOOT	112		66	46
52000110	PREFORMED JOINT STRIP SEAL	FOOT	257		121	136
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70102637	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60	60		

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USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 3/26/2024	DATE - 3/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	3
			CONTRACT NO. 66N52	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE ROADWAY	100% STATE BRIDGE	100% STATE BRIDGE
				0021	0047	0047
				URBAN	S.N. 046-0023	S.N. 046-0111
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1084	1084		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	493	493		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	675	675		
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4		
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4		
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	149	149		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	7787	7787		
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	860	860		
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	1575	1575		
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	359	359		
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	254	254		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5071	5071		
* 88600100	DETECTOR LOOP, TYPE I	FOOT	150	150		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	2		

***SPECIALITY ITEMS**

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PLOT DATE = 3/26/2024	DATE - 3/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	4
			CONTRACT NO. 66N52	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE	100% STATE	100% STATE
				ROADWAY	BRIDGE	BRIDGE
				0021 URBAN	0047 S.N. 046-0023	0047 S.N. 046-0111
X0322215	CLEANING BRIDGE SCUppers AND DOWNSPOUTS	EACH	18		10	8
X0326394	FLOOR DRAINS TO BE CLEANED	EACH	22		14	8
X4402805	ISLAND REMOVAL	SQ FT	462	462		
X6061055	CONCRETE ISLAND (SPECIAL)	SQ FT	340	340		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1		
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	71		62	9
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	42.8		23.3	19.5
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2		1	1
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	195		154	41
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	84	84		

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PLOT DATE = 3/26/2024	DATE - 3/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	5
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

TEMPORARY CONCRETE BARRIER SCHEDULE

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE NARROW) TEST LEVEL3	IMPACT ATTENUATOR RELOCATE (NON-REDIRECTIVE NARROW) TEST LEVEL3
	FT	FT	EACH	EACH
STRUCTURE NO. 046-0023				
STAGE-I	350		2	
STAGE-II		350		2
STRUCTURE NO. 046-0111				
STAGE-I	325		2	
STAGE-II		325		2
TOTALS	675	675	4	4

TEMPORARY TAFFIC SIGNAL SCHEDULE

LOCATION	TEMPORARY TAFFIC SIGNAL INSTALLATION
	EACH
IL 1 & 17 INTERSECTION	1
RIVER ROAD INTERSECTION	1
TOTALS	2

PAVEMENT MARKING SCHEDULE

LOCATION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LETTER AND SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"	MODIFIED URETHANE PAVEMENT MARKING LINE 8"	MODIFIED URETHANE PAVEMENT MARKING LINE 12"	MODIFIED URETHANE PAVEMENT MARKING LINE 24"	PAVEMENT MARKING REMOVAL WATER-BLASTING
	FOOT	SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
STAGE-I SHORT TERM	3105	1025							
STAGE-II SHORT TERM	4032	1331							
PROPOSED PAVEMENT MAKING			298	15574	1720	3150	718	508	5004
TOTALS	7137	2356	298	15574	1720	3150	718	508	5004

PAVEMENT MARKING QUANTITIES ARE BASED ON TWO APPLICATIONS PER SPECIAL PROVISION

ISLAND SCHEDULE

LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	ISLAND REMOVAL	CONCRETE ISLAND SPECIAL
	SQ YD	SQ FT	SQ FT
NW ISLAND @ I-1/17 AND I 17	21	185	133
SW ISLAND @ I-1/17 AND I 17	31	277	206
TOTALS	52	462	339

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

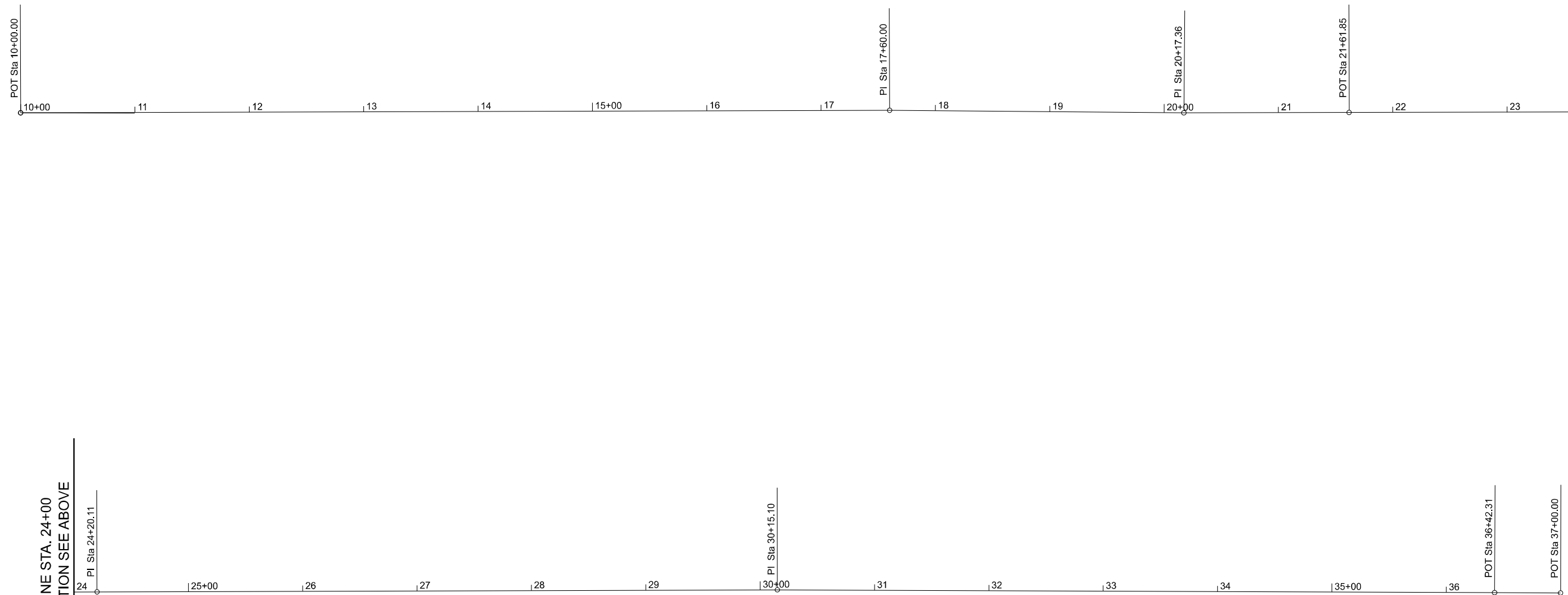
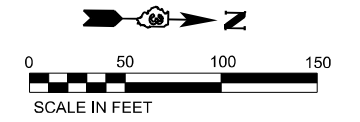
SCHEDULES		
IL 1 & 17 OVER KANKAKEE RIVER		
SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	46	6
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

USGS BENCH MARK L166 NORTH END OF STH 1 & 17 BRIDGE OVER SOUTH CHANNEL SET VERTICALLY AT ELEVATION 24.72 (NGVD OF 1929)

ALL INFORMATION PROVIDED BY IDOT

CONTROL POINT	STATION
PI	STA 30+15.10
PI	STA. 24+20.11
PI	STA. 21+61.85
PI	STA. 20+17.36
PI	STA. 17+60.00



MATCHLINE STA. 24+00
CONTINUATION SEE ABOVE

MATCHLINE STA. 24+00
CONTINUATION SEE BELOW

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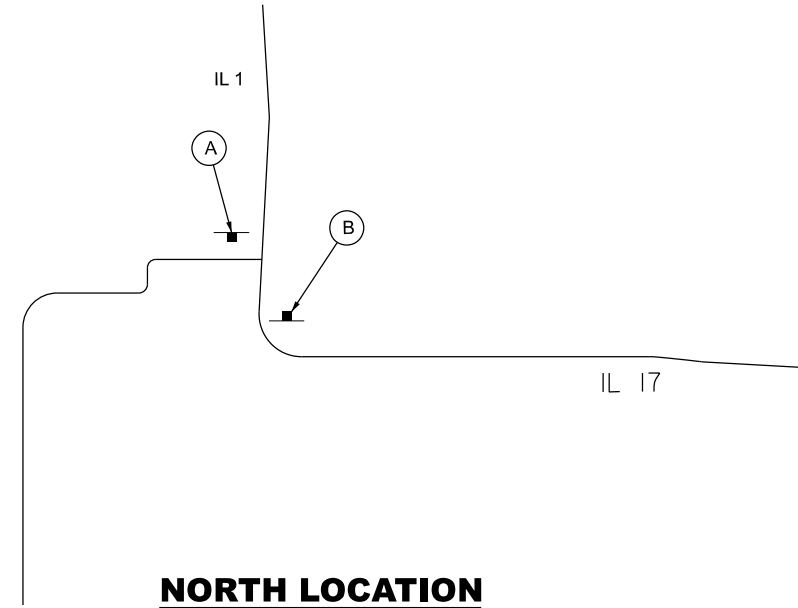
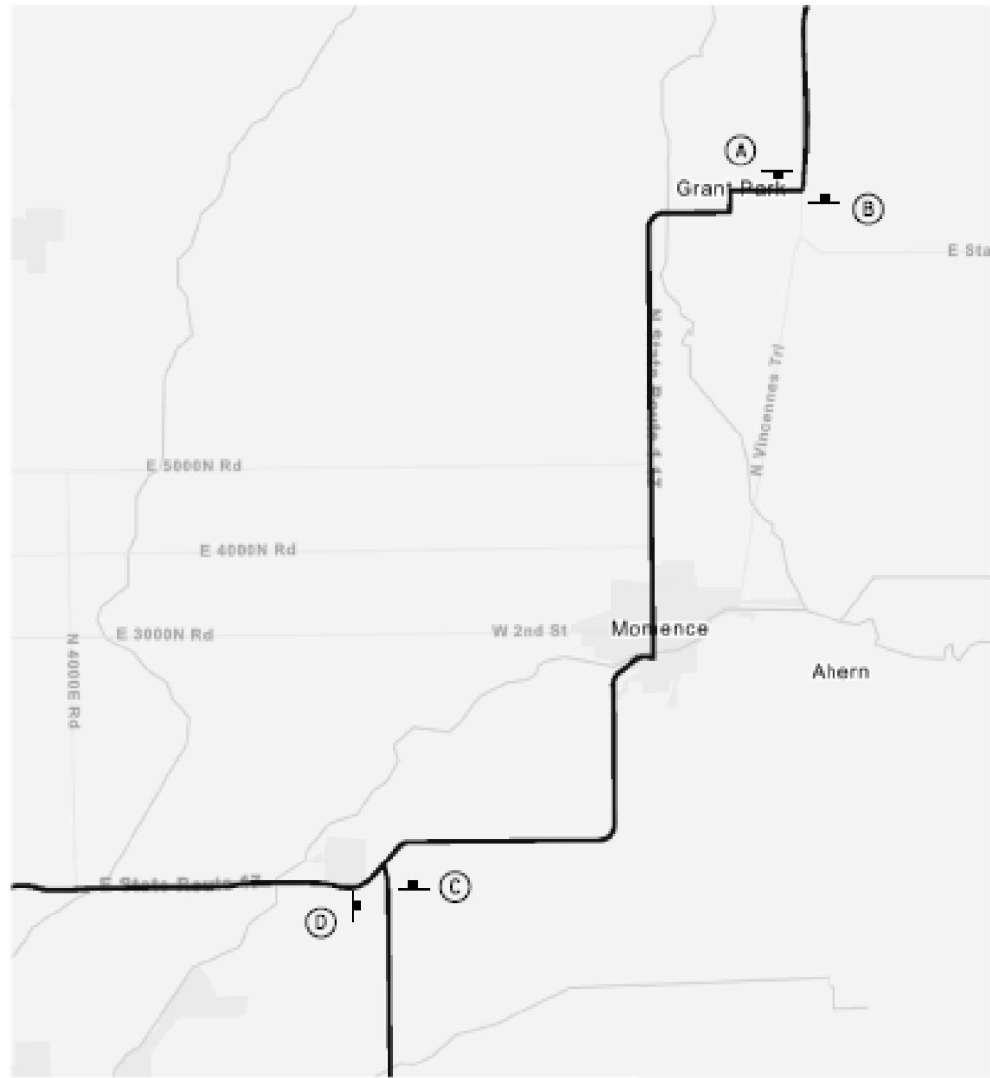
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	CHECKED - JR	REVISED -
PLOT DATE = 3/26/2024	DATE - 01-29-2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND BENCHMARKS
IL 1 & 17 OVER KANKAKEE RIVER**

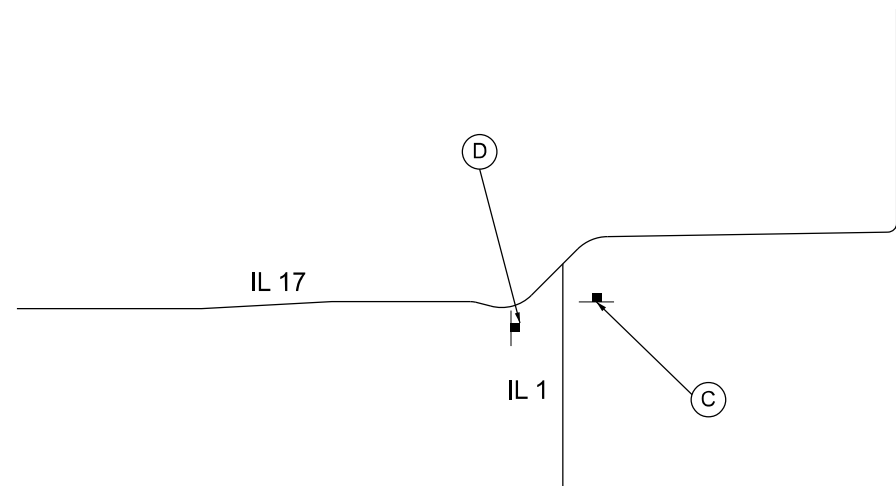
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	7
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	

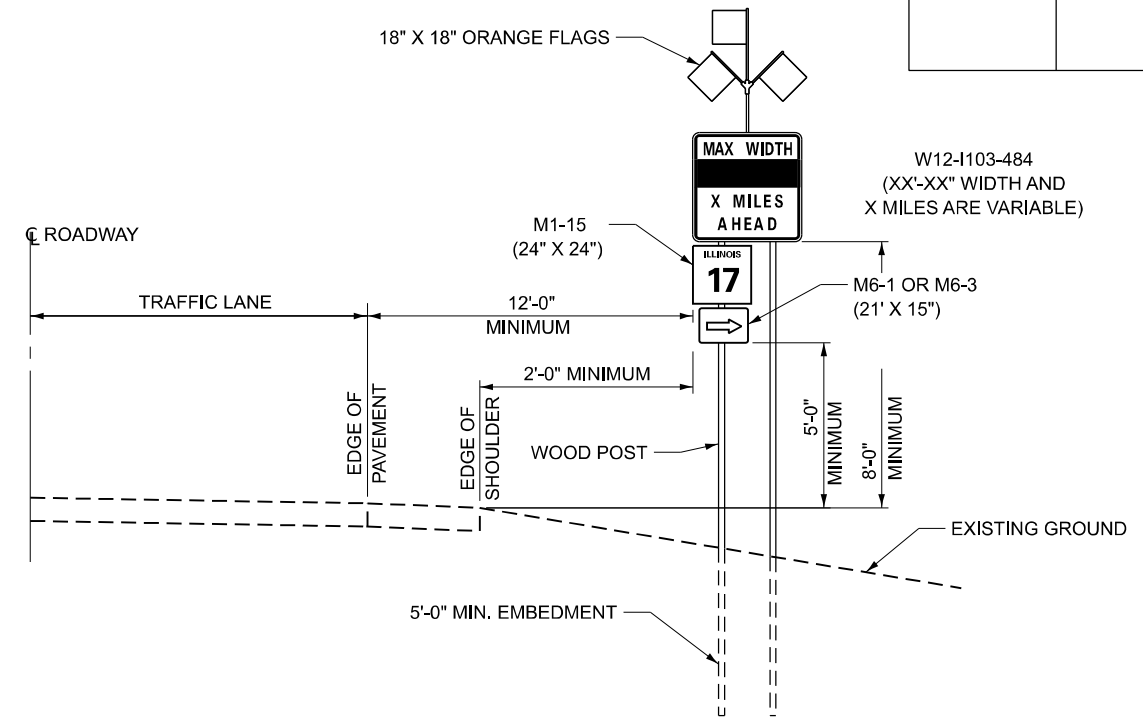


**NORTH LOCATION
GRANT PARK**

A	
B	
C	
D	



SOUTH LOCATION



**WIDTH RESTRICTION SIGN
CONVENTIONAL ROADWAYS**

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\10391877\66N52 PLAN.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
8330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = ronald.woodshank	DESIGNED - MS	REVISED -
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PLOT DATE = 3/26/2024	DATE - 01-29-2024	REVISED -










**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

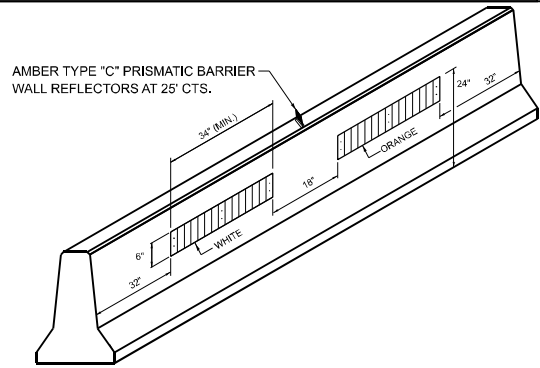
**WIDTH RESTRICTION SIGNING
IL 1 & 17 OVER KANKAKEE RIVER**

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

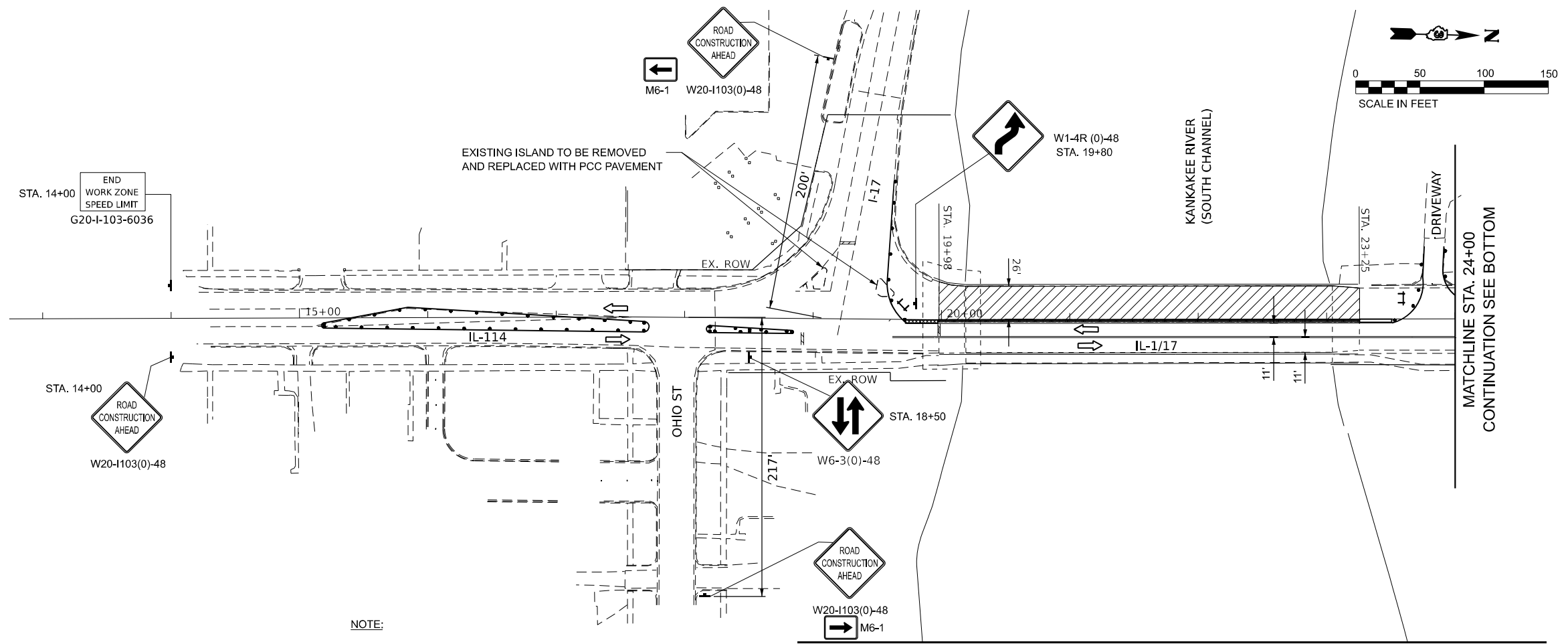
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132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	8
CONTRACT NO. 66N52				
		ILLINOIS	FED. AID PROJECT	

LEGEND

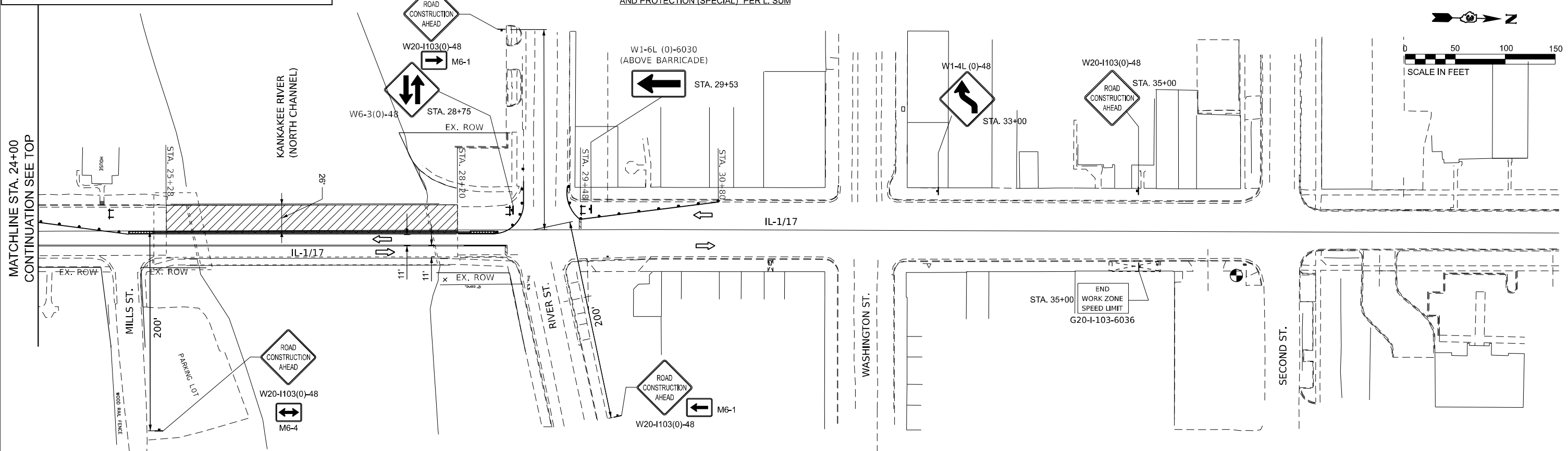
-  DIRECTION OF TRAFFIC FLOW
-  DRUM WITH PAVEMENT MARKING
-  TEMPORARY CONCRETE BARRIER
-  WORK ZONE
-  IMPACT ALTERNATOR, TEMPORARY, (NON-REFLECTIVE, NARROW) TEST LEVEL 3
-  SIGN
-  TYPE III BARRICADE WITH FLASHING WHEN ARE WORKER NOT PRESENT
-  TEMPORARY PAVEMENT MARKING DOUBLE 4" YELLOW CENTERLINE
-  TEMPORARY PAVEMENT MARKING STOP BAR 24" WHITE



LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER



NOTE:
ALL TRAFFIC CONTROL DEVICES, INCLUDING DRUMS, TYPE III BARRICADES TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNAGE AS SHOWN ON THESE SHEET "MOT" SHEETS WILL BE PAID FOR AS TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) PER L. SUM



MODEL: Default
FILE NAME: G:\pwwork\woodshank\10891877\66N52.PLAN.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
8330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = ronald.woodshank
PLOT DATE = 3/26/2024

DESIGNED - MS
DRAWN - SR
CHECKED - JR
DATE - 01-29-2024

REVISED -
REVISED -
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REVISED -










**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

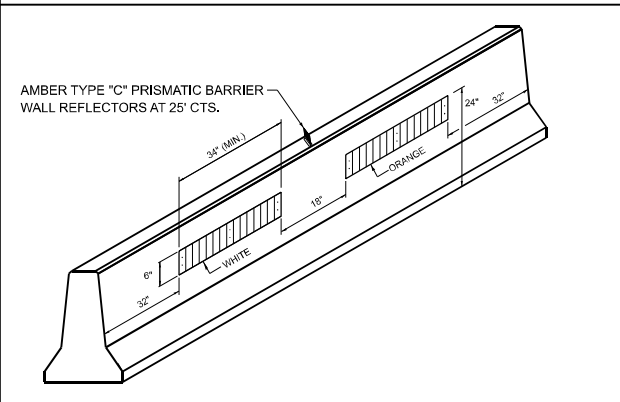
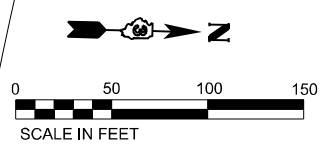
**MAINTENANCE OF TRAFFIC-STAGE I
IL-1 & 17 OVER KANKAKEE RIVER**

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

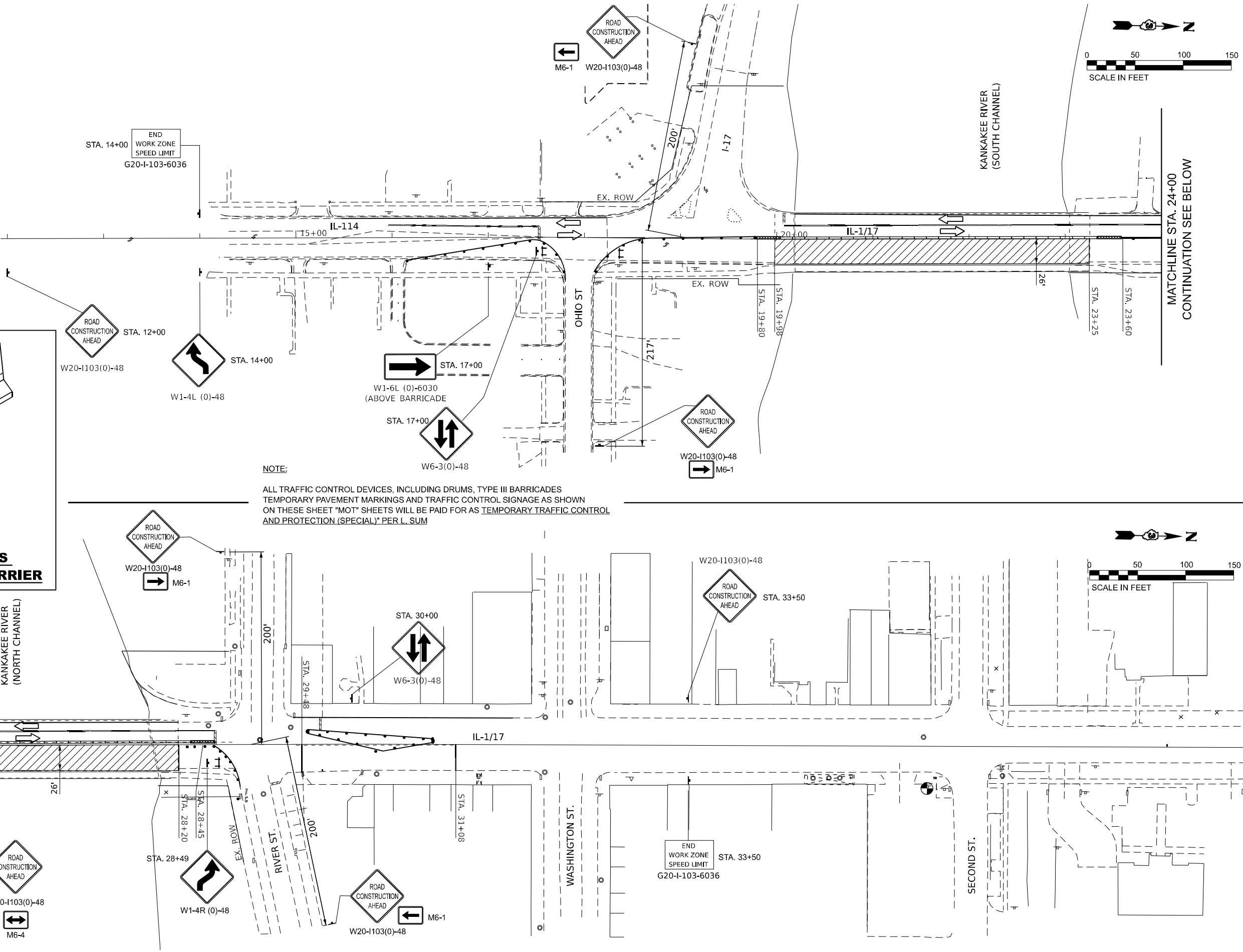
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	9
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

LEGEND

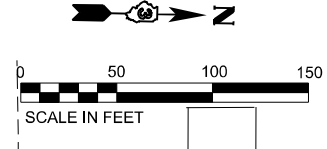
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LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER



NOTE:
ALL TRAFFIC CONTROL DEVICES, INCLUDING DRUMS, TYPE III BARRICADES TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNAGE AS SHOWN ON THESE SHEET "MOT" SHEETS WILL BE PAID FOR AS TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) PER L. SUM



MATCHLINE STA. 24+00 CONTINUATION SEE ABOVE

MODEL: Default
FILE NAME: C:\pwworkspace\woodshank\10391877\66N62 PLAN.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
8330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = ronald.woodshank
PLOT DATE = 3/26/2024

DESIGNED - **RWS**
DRAWN - **SW**
CHECKED - **JJR**
DATE - **01/28/2024**

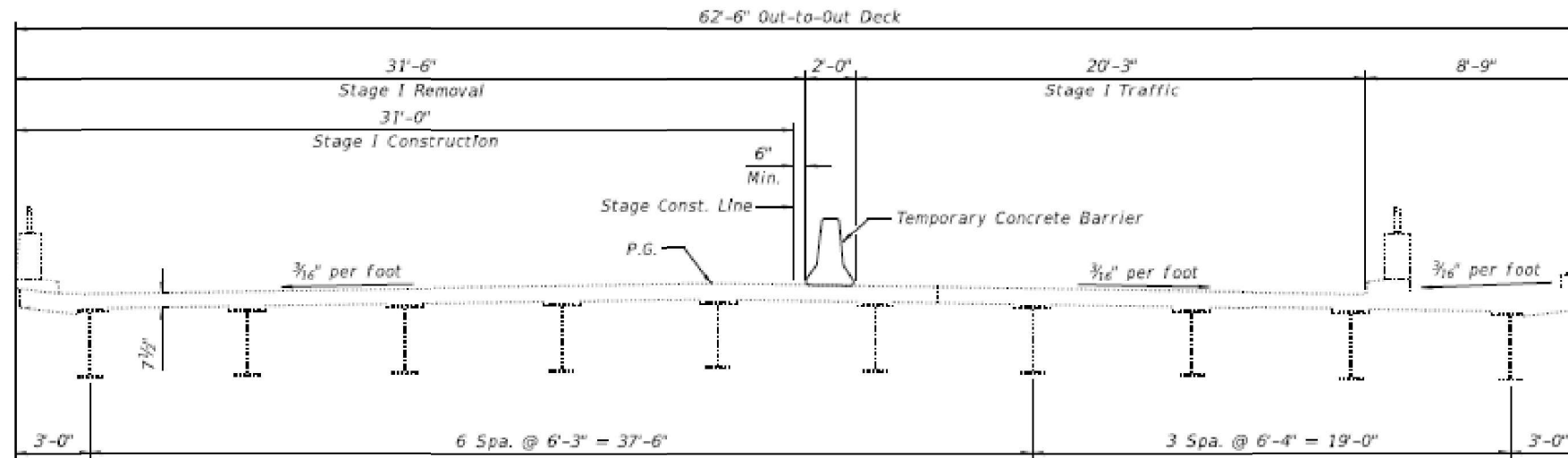
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

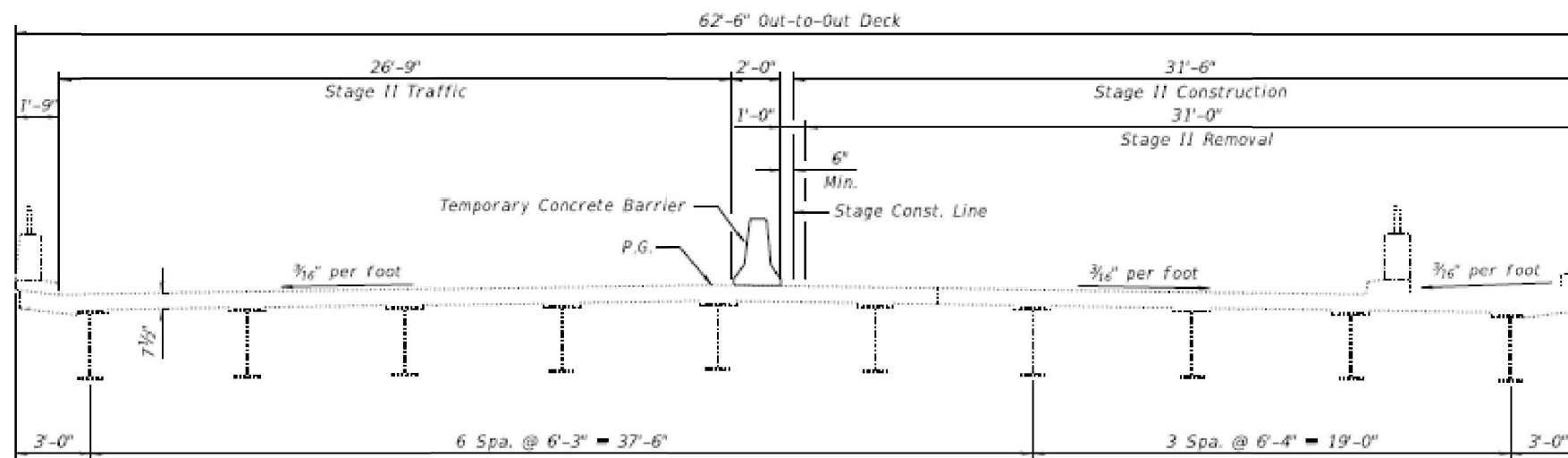
**MAINTENANCE OF TRAFFIC - STAGE II
IL - 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	10
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



STAGE I CONSTRUCTION
(Looking North)



STAGE II CONSTRUCTION
(Looking North)

MODEL: Default
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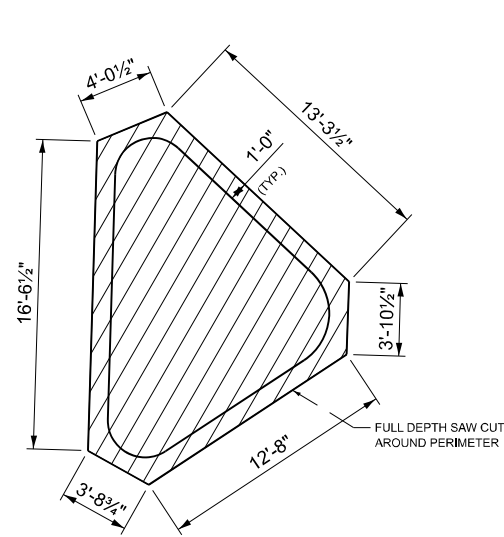
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	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 3/26/2024	DATE - 3/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

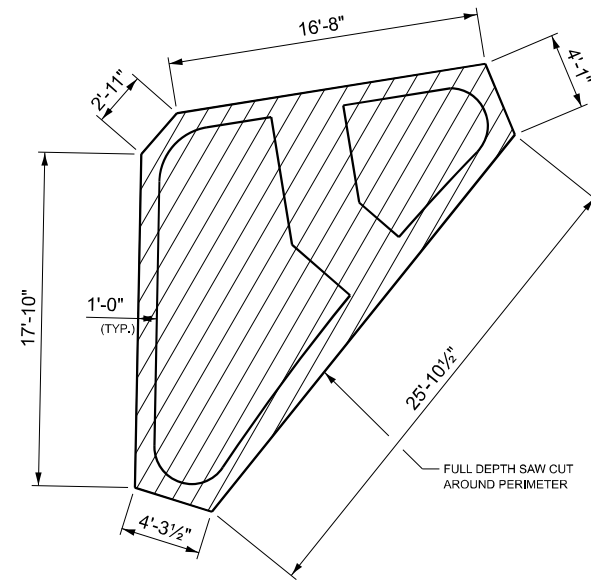
**MAINTENANCE OF TRAFFIC TYPICAL
IL - 1 & 17 OVER KANKAKEE RIVER**

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

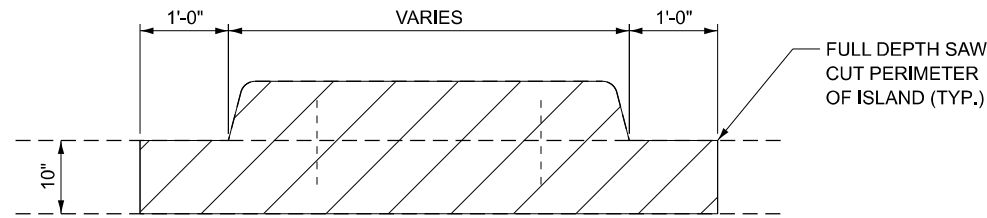
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	11
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



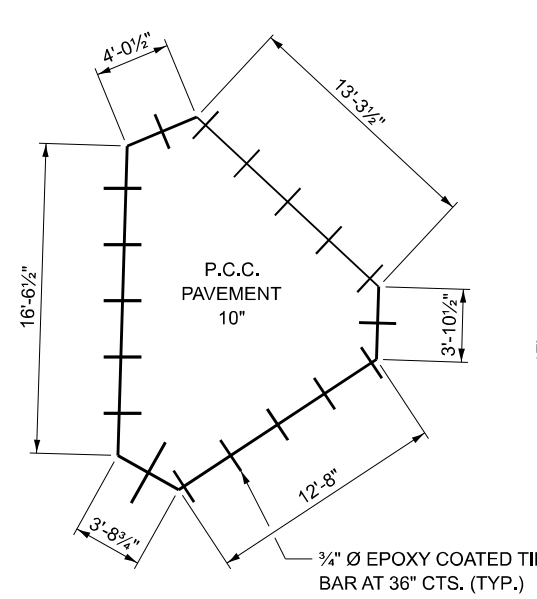
NORTHWEST ISLAND



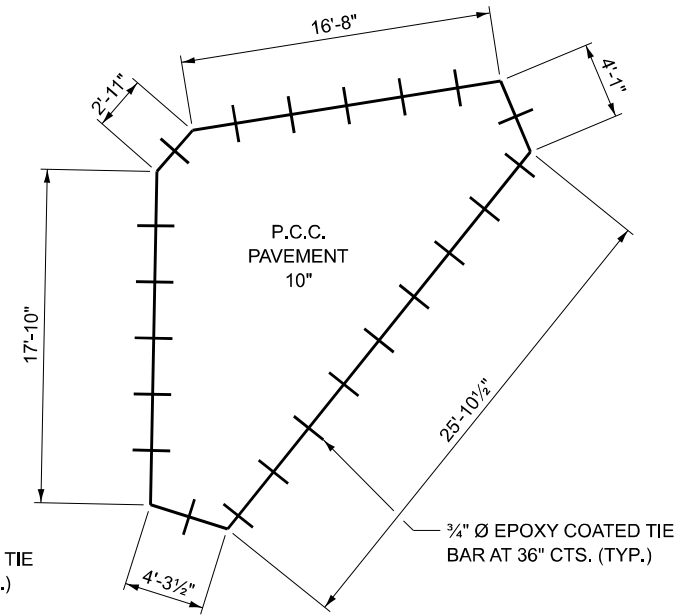
SOUTHWEST ISLAND



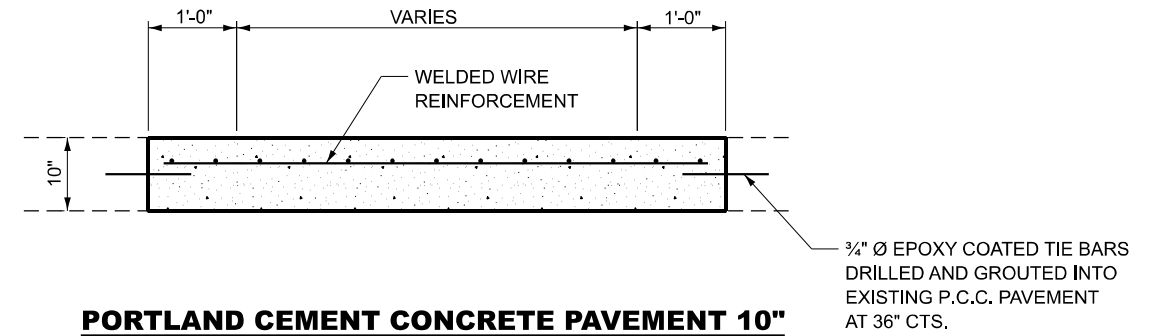
REMOVAL CROSS SECTION



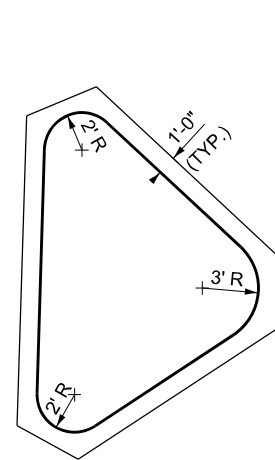
NORTHWEST ISLAND



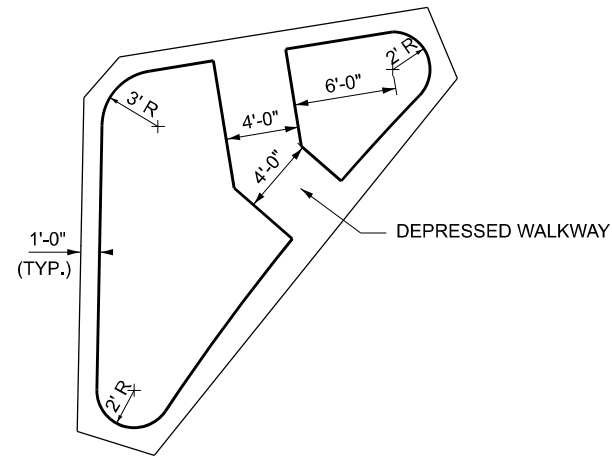
SOUTHWEST ISLAND



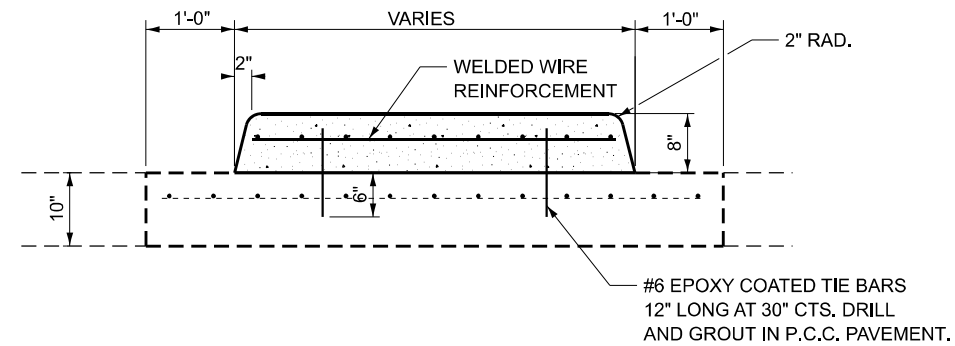
PORTLAND CEMENT CONCRETE PAVEMENT 10"



NORTHWEST ISLAND



SOUTHWEST ISLAND



CONCRETE ISLAND (SPECIAL)

NOTE:
COST OF 3/4" Ø EPOXY COATED TIE BARS AND WELDED WIRE REINFORCEMENT SHALL BE INCLUDED IN THE COST OF THE P.C.C. PAVEMENT 10" OR CONCRETE ISLAND (SPECIAL)

MODEL: D:\inf\... FILE NAME: ...

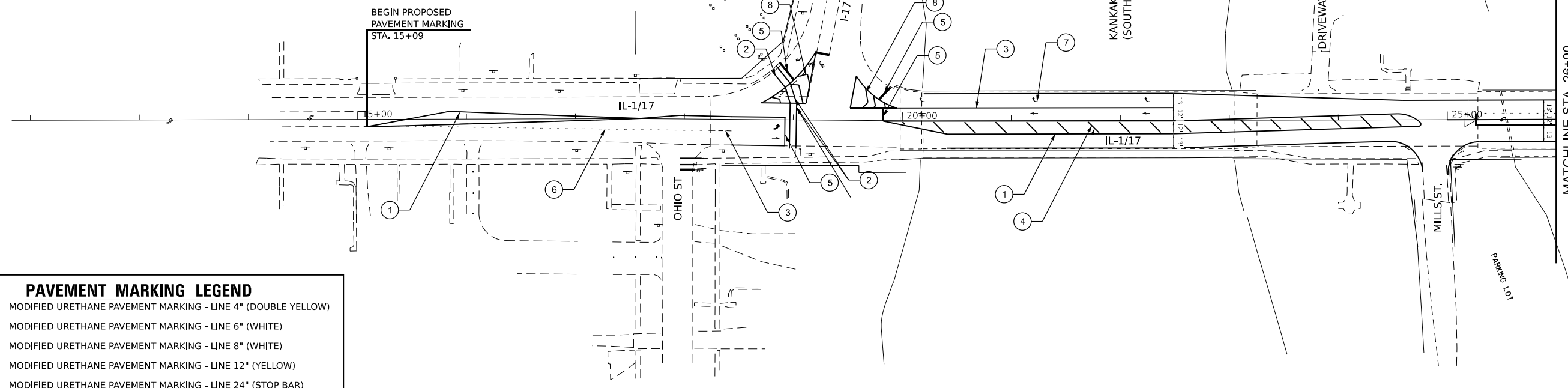
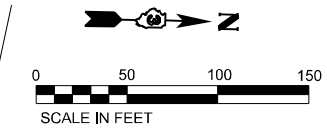
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PLOT DATE = 3/28/2024	DATE - 3/26/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ISLAND REMOVAL AND REPLACEMENT

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

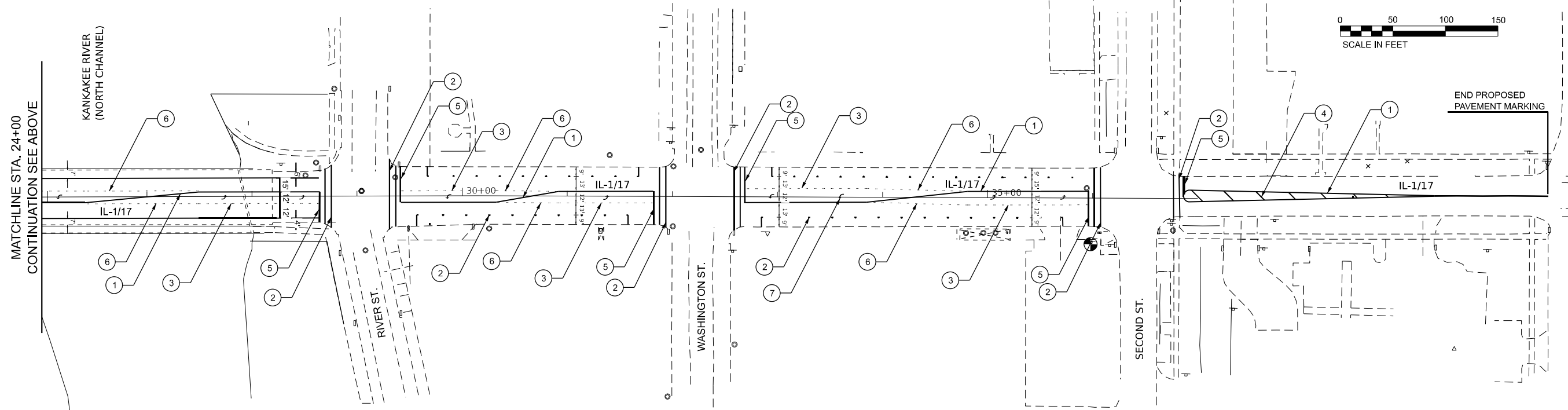
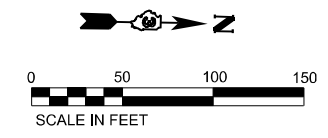
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	12
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 26+00
CONTINUATION SEE BELOW

PAVEMENT MARKING LEGEND

1	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
2	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE)
3	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE)
4	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW)
5	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (STOP BAR)
6	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE SKIP DASH)
7	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
8	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE)



MATCHLINE STA. 24+00
CONTINUATION SEE ABOVE

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\10391877\66N52 PLAN.dgn

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CONSULTING ENGINEERS
8330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = ronald.woodshank	DESIGNED - MS	REVISED -
	DRAWN - SR	REVISED -
	CHECKED - JR	REVISED -
PLOT DATE = 3/26/2024	DATE - 01-29-2024	REVISED -

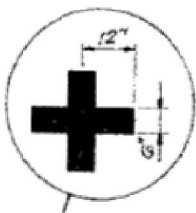
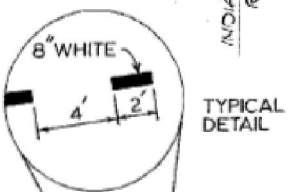
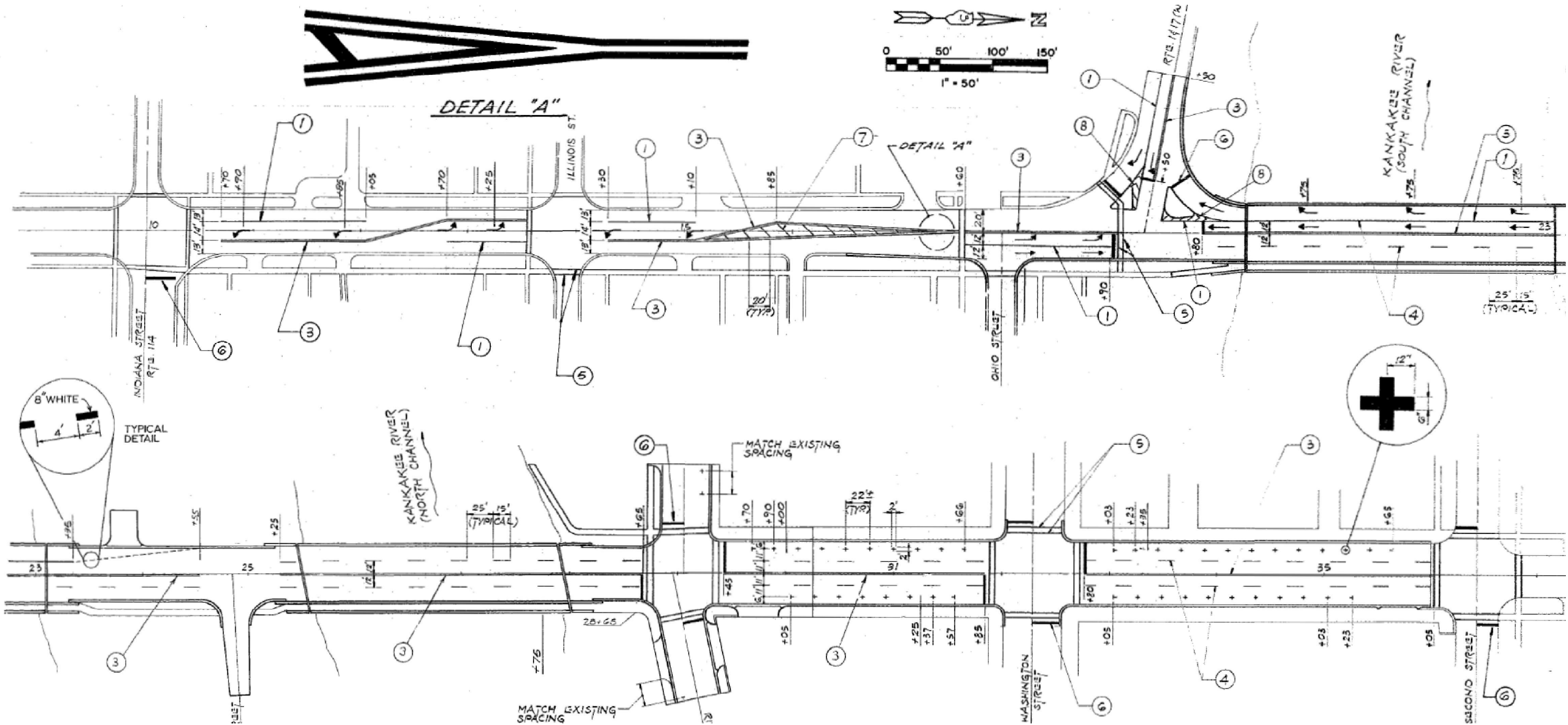
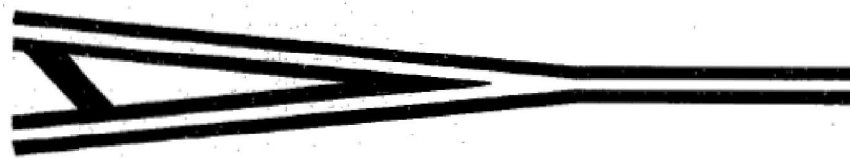
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DRAWN - SR	REVISED -
CHECKED - JR	REVISED -
DATE - 01-29-2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING
IL - 1 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE. 132	SECTION (6XBR, 6XBR-1)BRR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 13
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



"FOR INFORMATION ONLY"

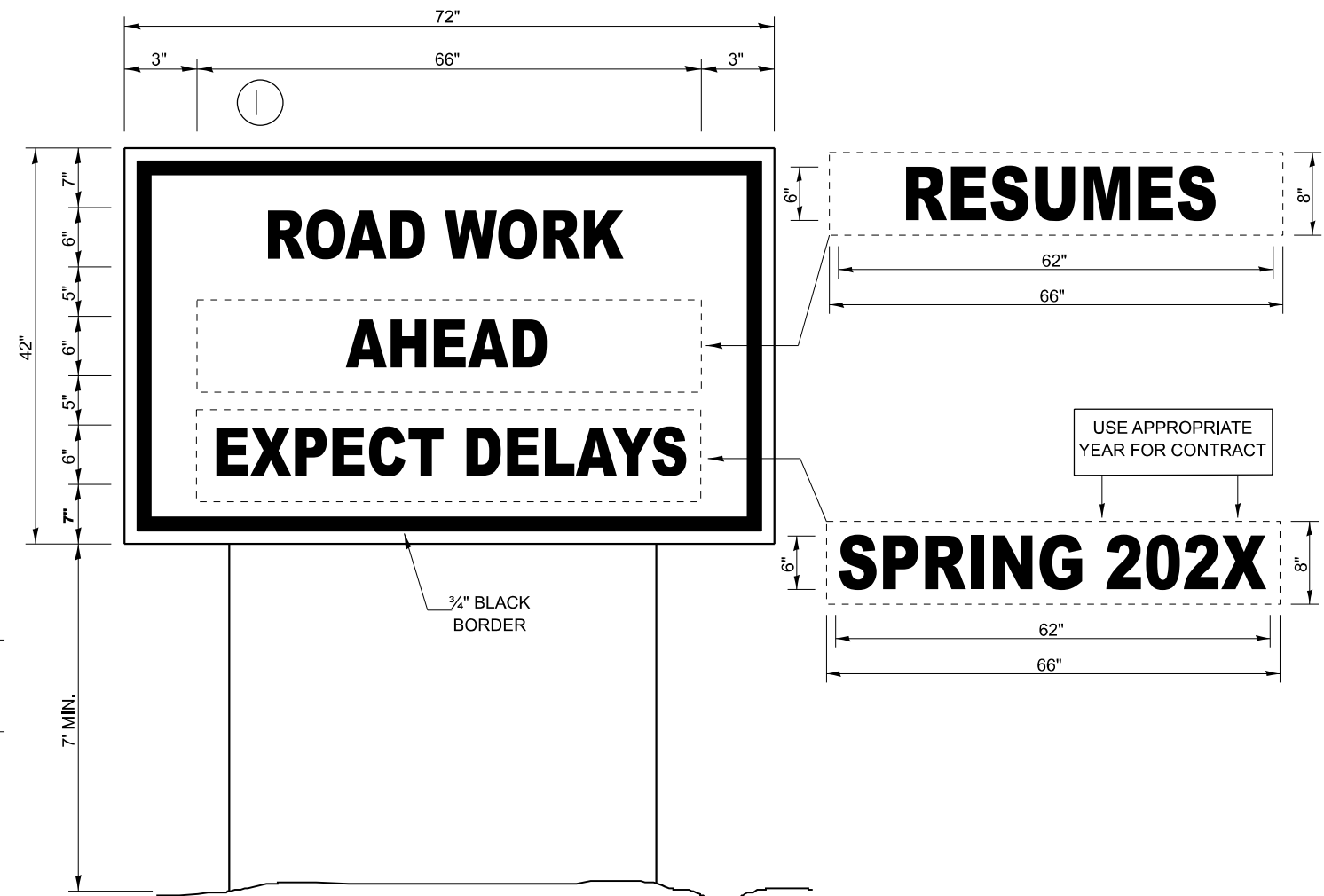
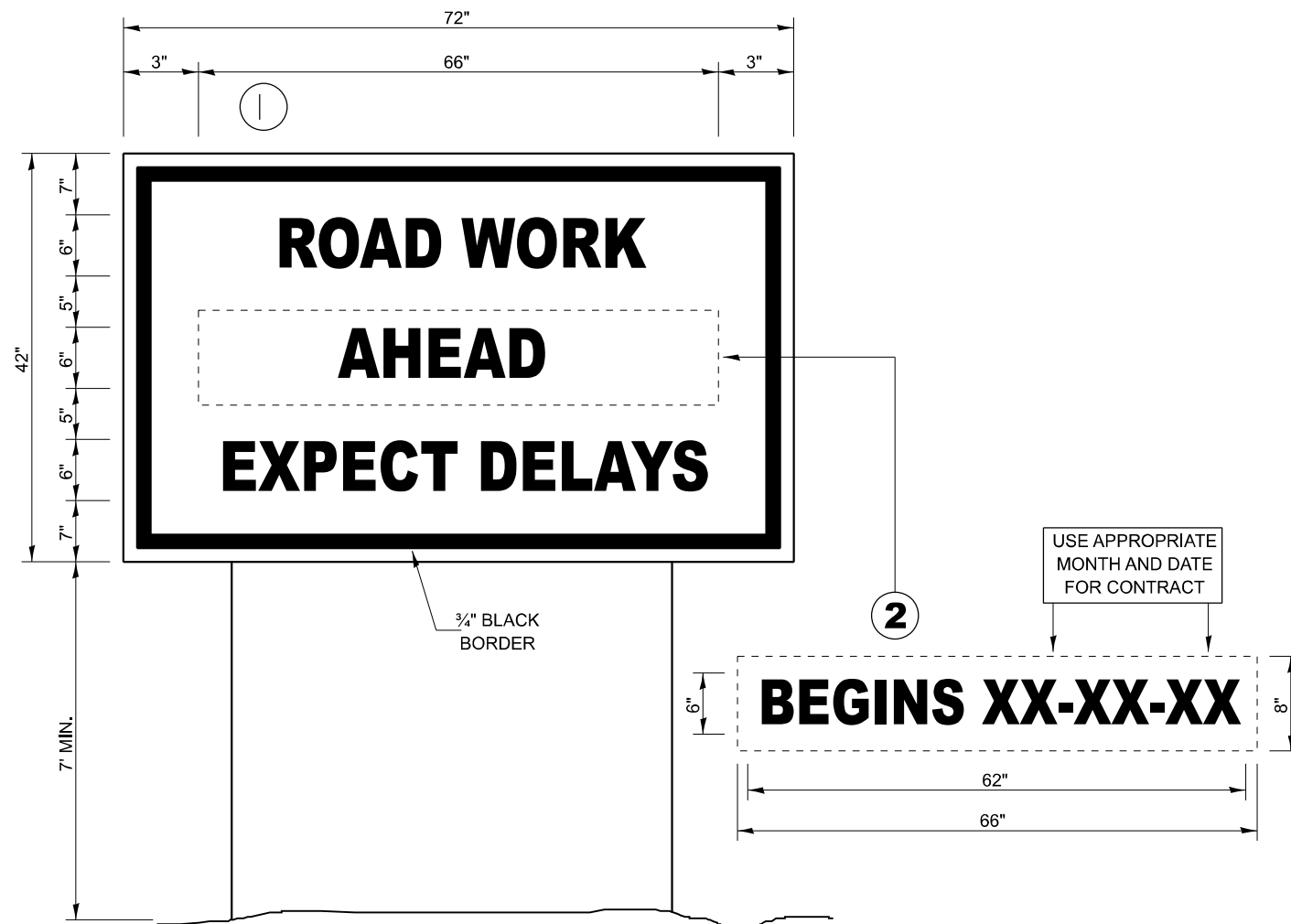
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DRAWN - RW	REVISED - RW	REVISED -
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PLOT DATE = 3/28/2024	DATE - 3/26/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PAVEMENT MARKING DETAILS			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	14
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING

WINTER SHUT DOWN SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

MODEL: Default
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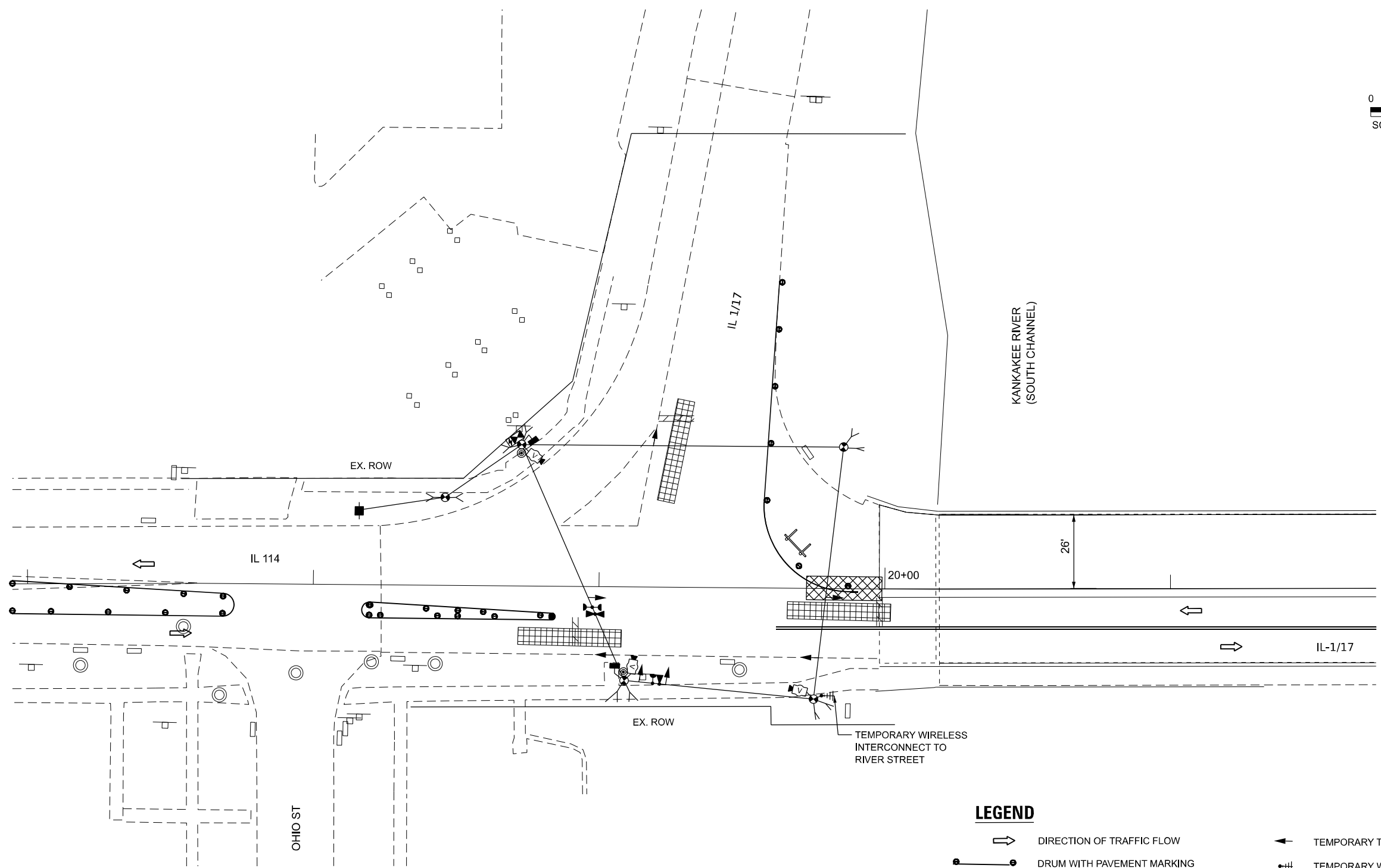
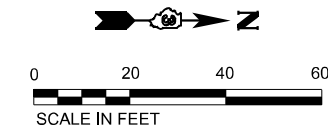
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	CHECKED - YP	REVISED -
PLOT DATE = 3/26/2024	DATE - 3/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	15
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



LEGEND

- DIRECTION OF TRAFFIC FLOW
- DRUM WITH PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- IMPACT ATTENUATOR, TEMPORARY, (NON-REFLECTIVE, NARROW) TEST LEVEL 3
- SIGN
- TYPE III BARRICADE WITH FLASHING WHEN ARE WORKER NOT PRESENT
- TEMPORARY PAVEMENT MARKING- DOUBLE 4" (YELLOW)
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY WIRELESS INTERCONNECT
- WOOD POLE
- VIDEO DETECTION CAMERA
- CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- VIDEO DETECTION ZONE

MODEL: Default
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 Downers Grove, IL 60516

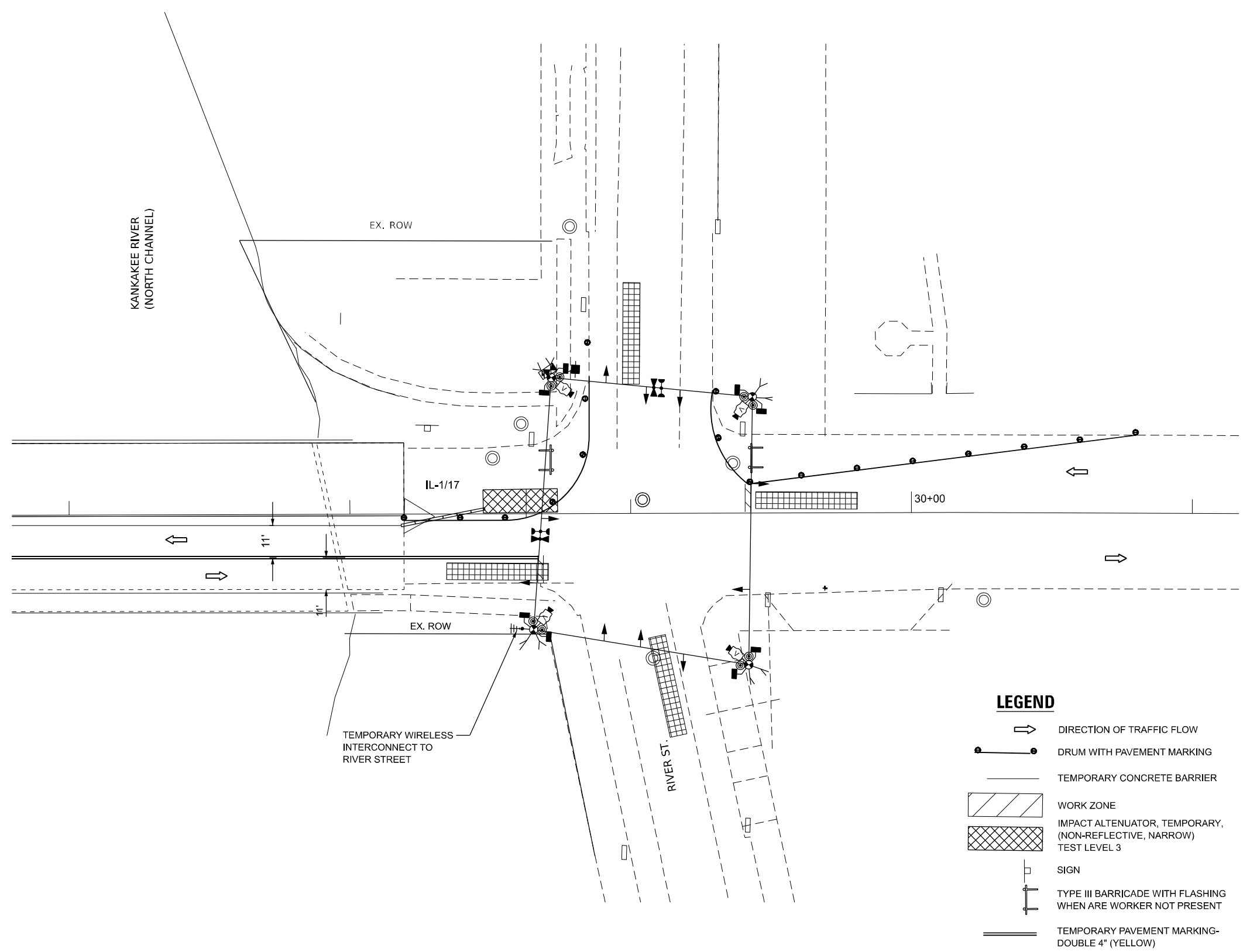
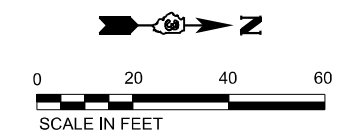
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	DRAWN - SR	REVISED -
	CHECKED - JR	REVISED -
PLOT DATE = 3/26/2024	DATE - 01-29-2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL, STAGE I - SOUTH
IL 1 & 17 OVER KANKAKEE RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	16
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



LEGEND

- DIRECTION OF TRAFFIC FLOW
- DRUM WITH PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- IMPACT ATTENUATOR, TEMPORARY, (NON-REFLECTIVE, NARROW) TEST LEVEL 3
- SIGN
- TYPE III BARRICADE WITH FLASHING WHEN ARE WORKER NOT PRESENT
- TEMPORARY PAVEMENT MARKING-DOUBLE 4" (YELLOW)
- TEMPORARY TRAFFIC SIGNAL
- WOOD POLE
- VIDEO DETECTION CAMERA
- CONFIRMATION BEACON
- VIDEO DETECTION ZONE

MODEL: Default
FILE NAME: c:\pwworking\woodshank\10391877\66N52 PLAN.dgn

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8330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = ronald.woodshank
DESIGNED - MS
DRAWN - SR
CHECKED - JR
PLOT DATE = 3/26/2024

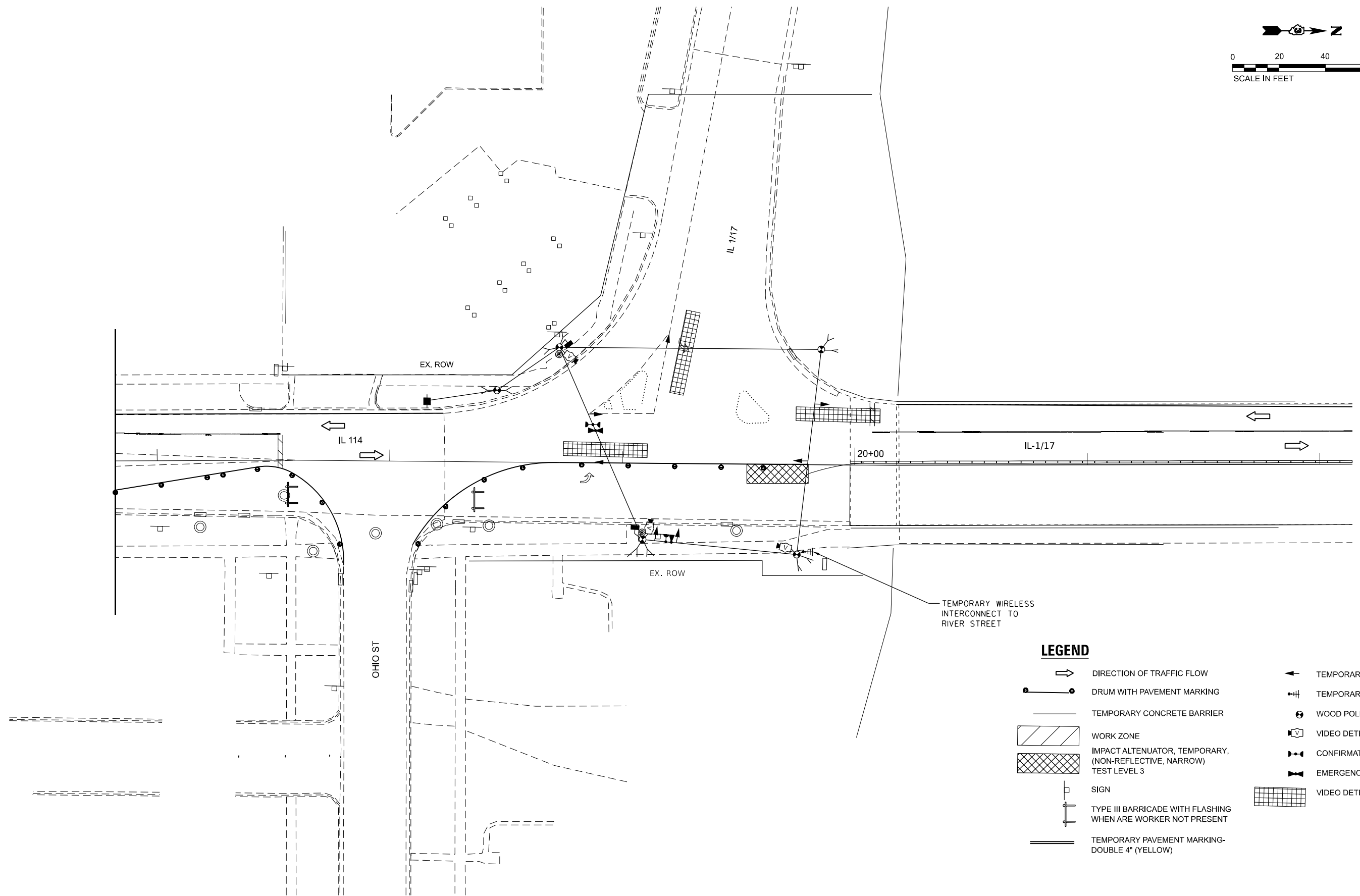
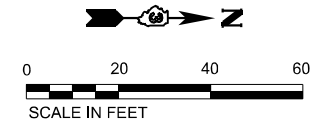
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DATE - 01-29-2024

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL, STAGE I - NORTH
IL 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66N52	



LEGEND

- DIRECTION OF TRAFFIC FLOW
- DRUM WITH PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- IMPACT ATTENUATOR, TEMPORARY, (NON-REFLECTIVE, NARROW) TEST LEVEL 3
- SIGN
- TYPE III BARRICADE WITH FLASHING WHEN ARE WORKER NOT PRESENT
- TEMPORARY PAVEMENT MARKING- DOUBLE 4" (YELLOW)
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY WIRELESS INTERCONNECT
- WOOD POLE
- VIDEO DETECTION CAMERA
- CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- VIDEO DETECTION ZONE

MODEL: Default
FILE NAME: c:\pwworking\woodshank\10391877\66N52 PLAN.dgn

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Downers Grove, IL 60516

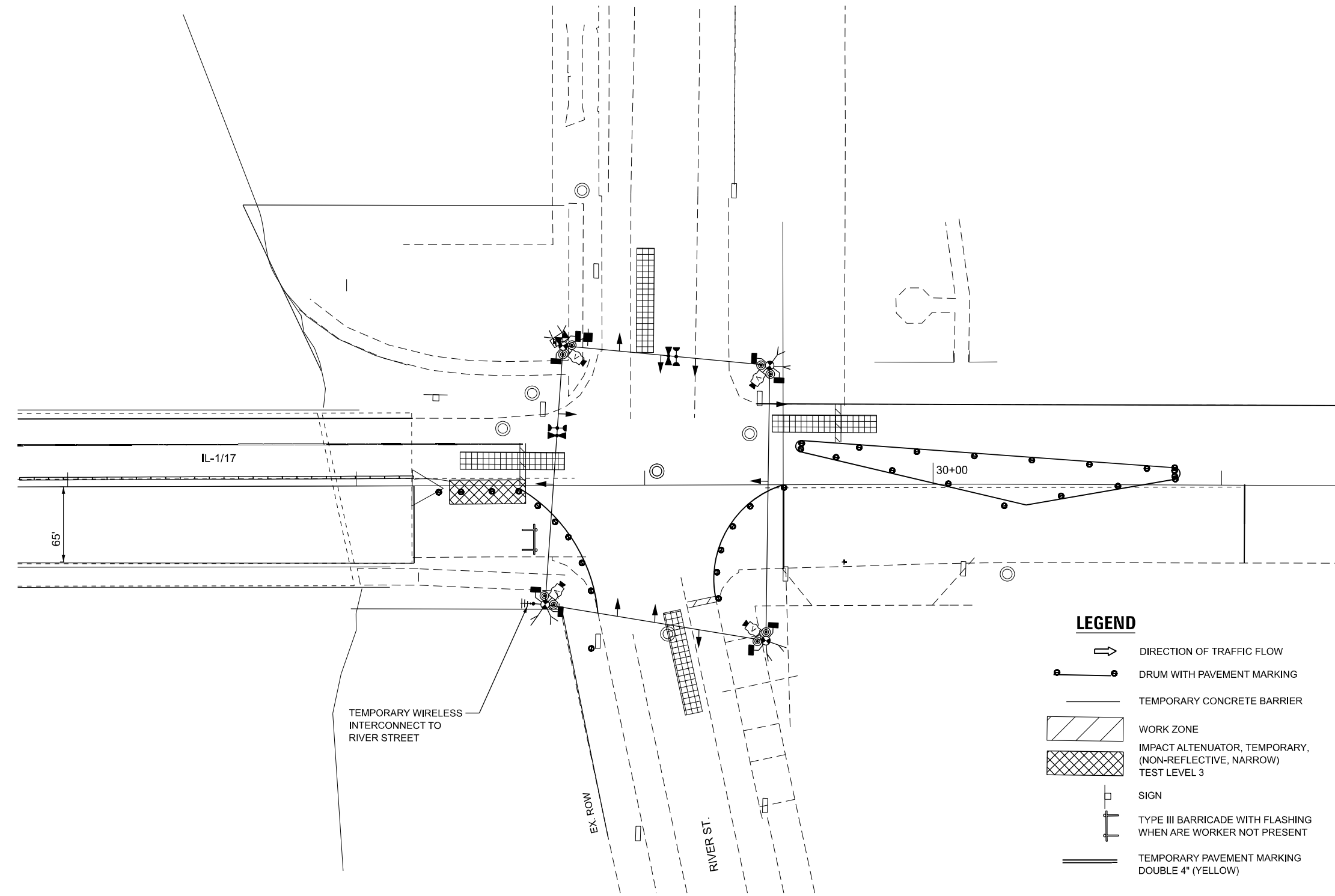
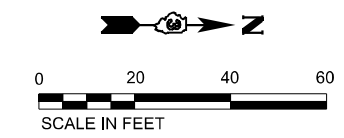
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PLOT DATE = 3/26/2024	DATE - 01/28/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL, STAGE II - SOUTH
IL 1 & 17 OVER KANKAKEE RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	18
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



LEGEND

- DIRECTION OF TRAFFIC FLOW
- DRUM WITH PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- IMPACT ATTENUATOR, TEMPORARY, (NON-REFLECTIVE, NARROW) TEST LEVEL 3
- SIGN
- TYPE III BARRICADE WITH FLASHING WHEN ARE WORKER NOT PRESENT
- TEMPORARY PAVEMENT MARKING DOUBLE 4" (YELLOW)
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY WIRELESS INTERCONNECT
- WOOD POLE
- VIDEO DETECTION CAMERA
- CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- VIDEO DETECTION ZONE

MODEL: Default
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USER NAME = ronald.woodshank	DESIGNED - MS	REVISED -
	DRAWN - SR	REVISED -
	CHECKED - JR	REVISED -
PLOT DATE = 3/26/2024	DATE - 01-29-2024	REVISED -

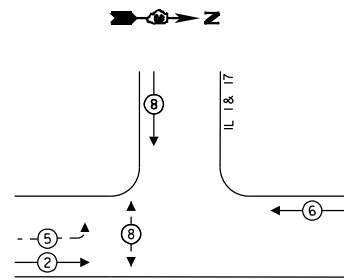
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL, STAGE II - NORTH
IL 1 & 17 OVER KANKAKEE RIVER

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

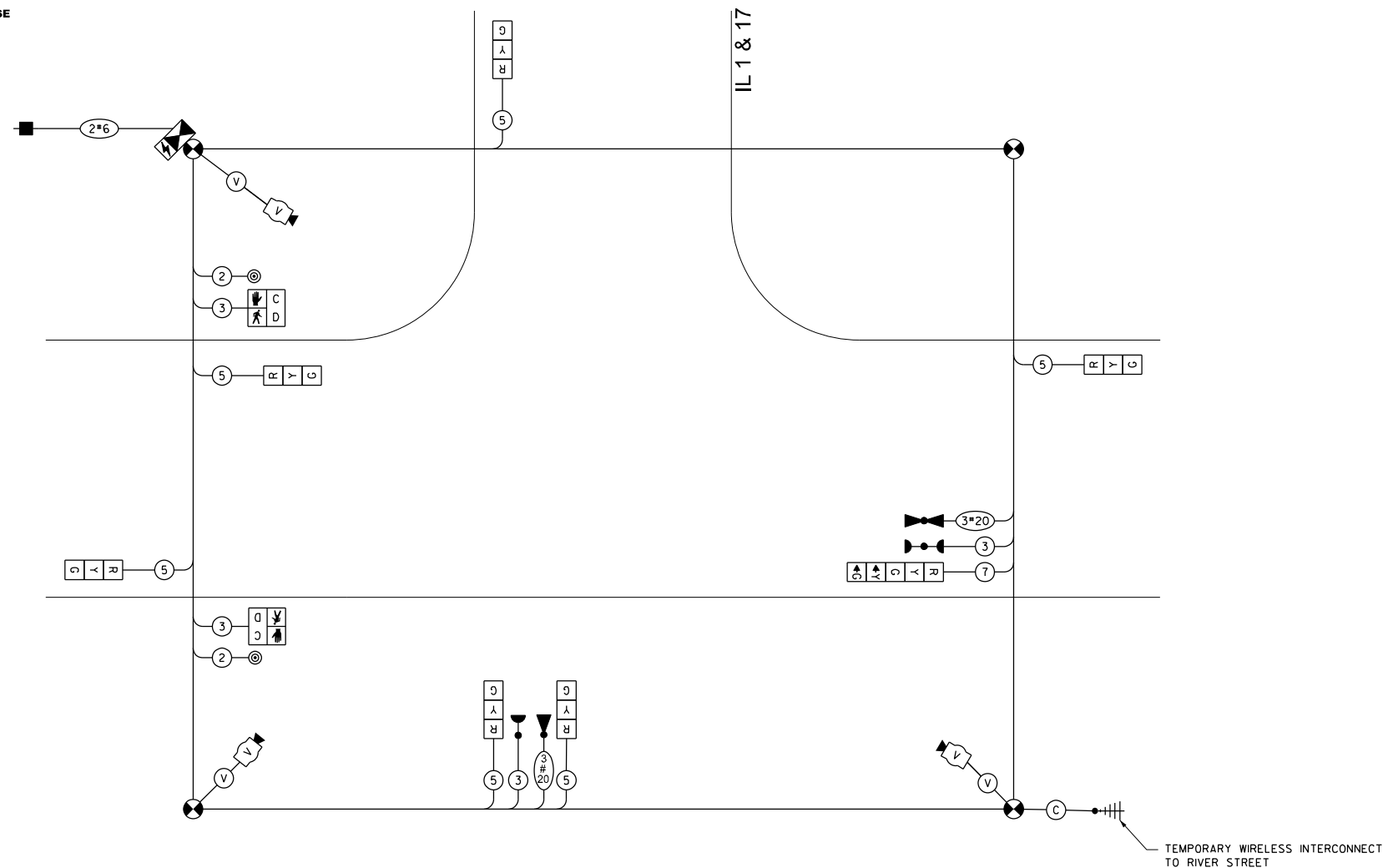
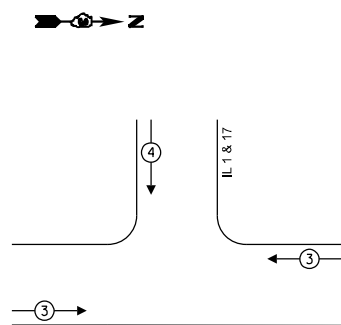
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	19
CONTRACT NO. 66N52				
ILLINOIS		FED. AID PROJECT		

**ALL STAGES
PROPOSED CONTROLLER SEQUENCE**



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ - PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL → OVERLAP

**ALL STAGES
PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



TEMPORARY CABLE PLAN
(NOT TO SCALE)

MODEL: Default
FILE NAME: c:\pwworkspace\woodshank\10391877\66N52 PLAN.dgn



USER NAME = ronald.woodshank
PLOT DATE = 3/26/2024

DESIGNED - MS
DRAWN - SR
CHECKED - JR
DATE - 01-29-2024

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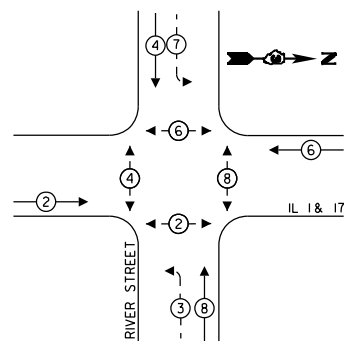
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALL STAGES TEMP. CABLE PLAN, TEMPORARY PHASE DESIGNATION
DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 1 & 17 OVER KANKAKEE RIVER**

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

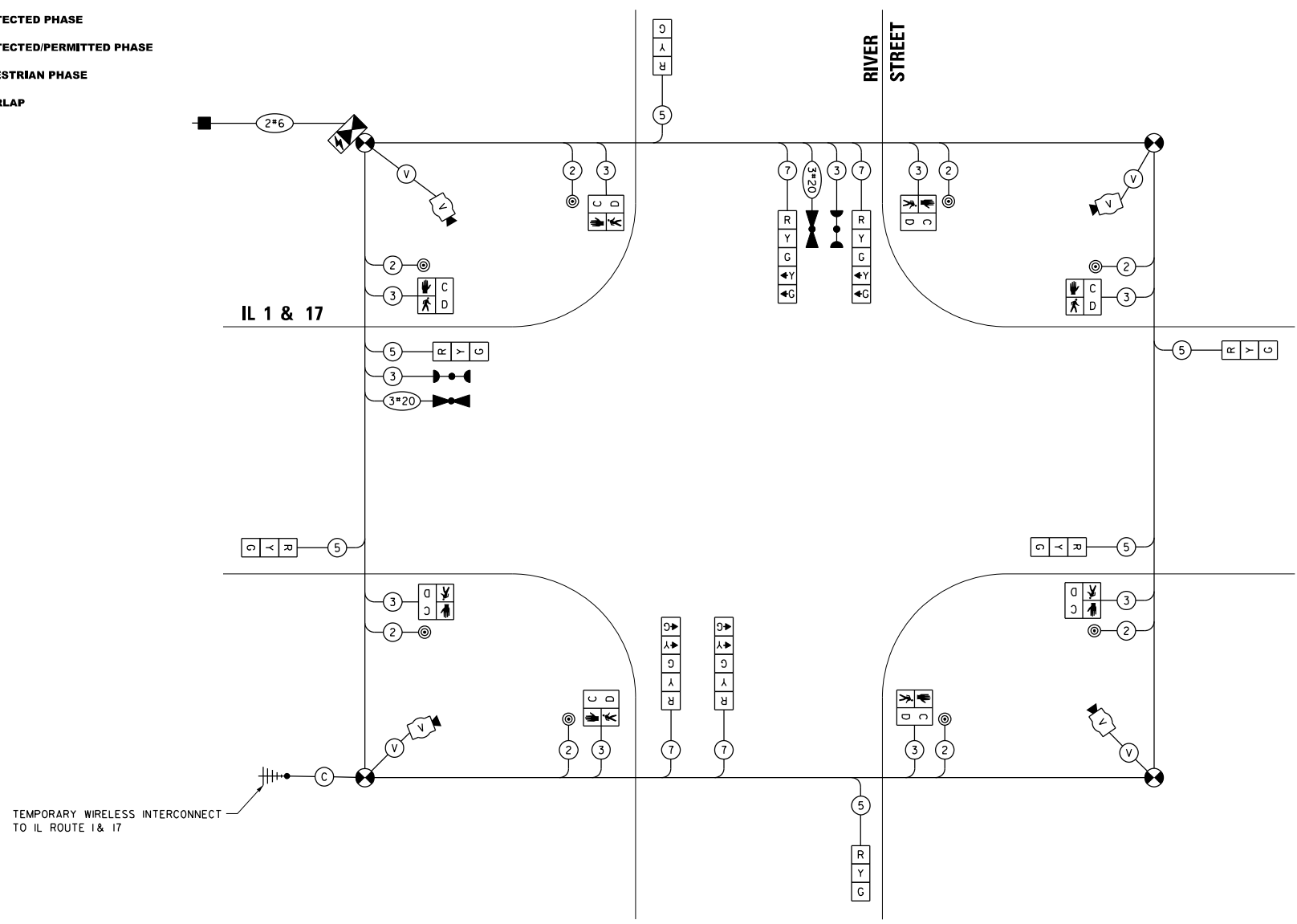
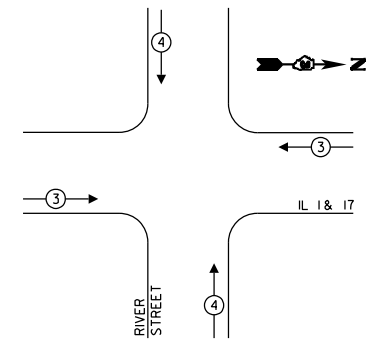
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132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	20
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

**ALL STAGES
PROPOSED CONTROLLER SEQUENCE**



- LEGEND:**
- ← * → PROTECTED PHASE
 - ← * - - → PROTECTED/PERMITTED PHASE
 - ← * - - - - → PEDESTRIAN PHASE
 - ← * - - - - - - → OVERLAP

**ALL STAGES
PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TEMPORARY CABLE PLAN
(NOT TO SCALE)**

MODEL: Default
FILE NAME: c:\pwwork\woodshank\10891877\66N52 PLAN.dgn



USER NAME = ronald.woodshank	DESIGNED - MS	REVISED -
	DRAWN - SR	REVISED -
	CHECKED - JR	REVISED -
PLOT DATE = 3/26/2024	DATE - 01-29-2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALL STAGES TEMP. CABLE PLAN, TEMPORARY PHASE DESIGNATION
DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 1 & 17 AT RIVER STREET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(6XBR, 6XBR-1)BRR	KANKAKEE	45	21
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

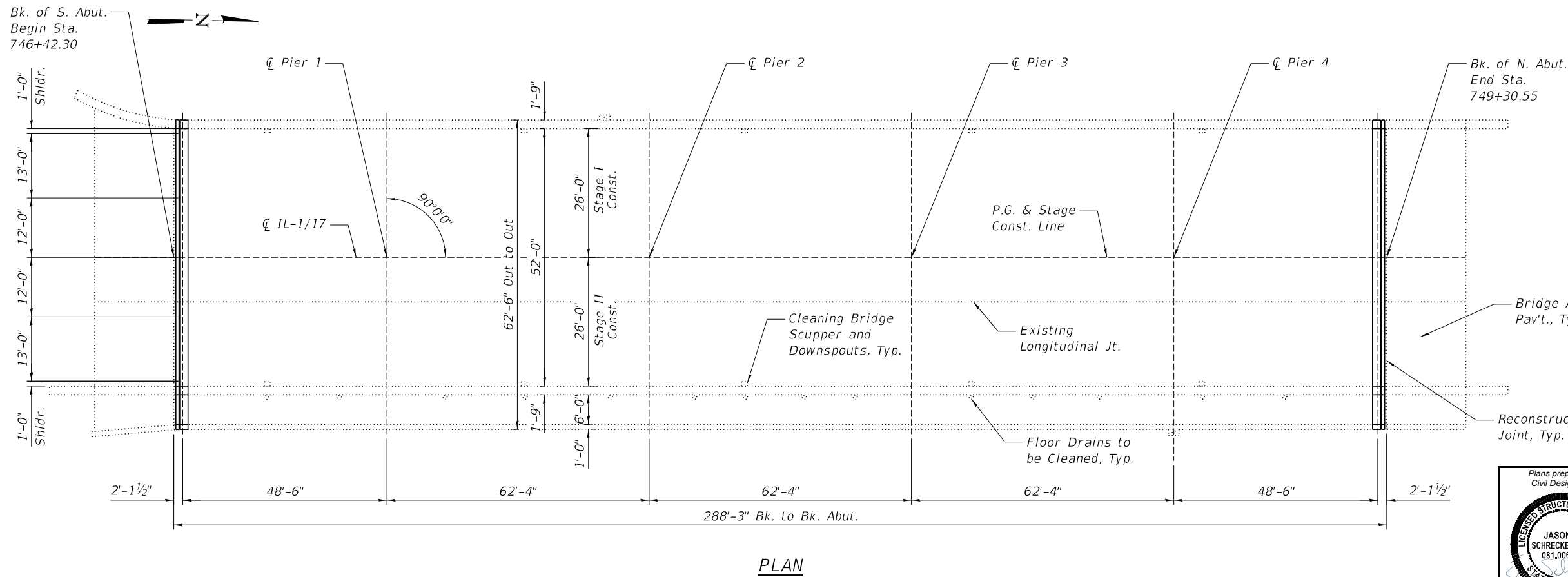
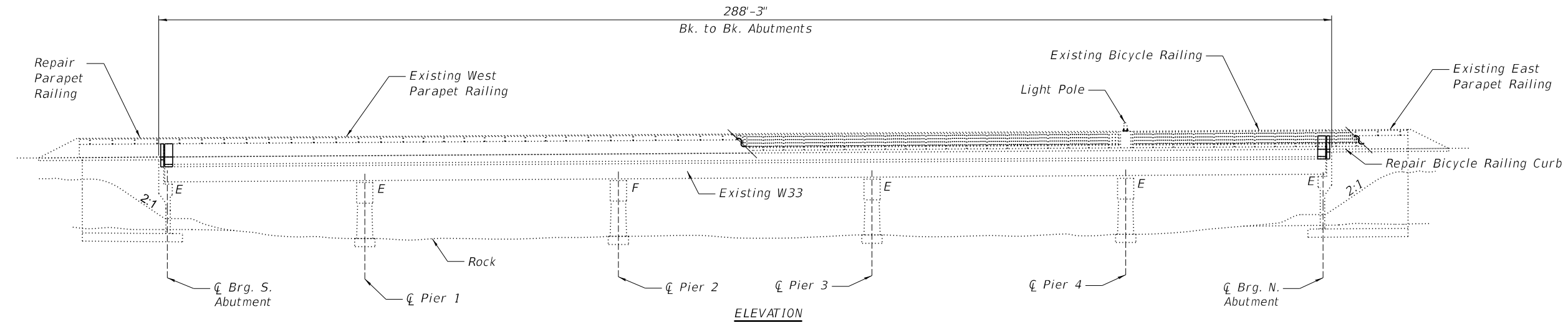
Structure 046-0023 was originally constructed in 1938 as SBI-1, Section 6X-B at Station 21+61.85 in Kankakee County. In 1986, the structure received repairs to IL-17 with Contract 38574, Section 6XBR. The 5 span concrete superstructure was removed and replaced. The abutments and piers received an extension to widen the deck.

The existing structure is a five span steel continuous multi beam bridge. The superstructure consists of ten 33" WF steel beams supporting a nominal 7½" thick reinforced concrete deck. The superstructure is supported by three piers on spread footings and two abutments on spread footings.

The structure has an overall length of 288'-3" from back to back of abutments. The deck has an out to out width of 62'-6", and a roadway width of 52'-0".

PROPOSED WORK

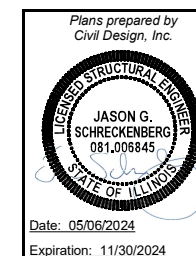
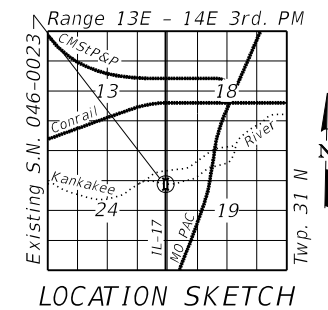
1. Removal of Deck Ends and Parapet at Deck Ends.
2. Removal of Existing Joints.
3. Perform Deck Repairs.
4. Install Expansion Joints and Pour Deck Ends.
5. Insert Rubber Strip Seal into Locking Edge Rails.
6. Pour Parapets.
7. Install Parapet Railing.
8. Clean bridge scuppers and floor drains.



**DESIGN STRESSES
FIELD UNITS**

New Construction
 $f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)

Existing Structure
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel, M-183)
 $f'_c = 50,000$ psi (Structural Steel, M-223, Gr. 50)



USER NAME = \$USERS	DESIGNED - MIH	REVISED -
PLOT SCALE = \$SCALES	DRAWN - MIH	REVISED -
PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
	DATE - 12/22/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 046-0023

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	22
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Protective Coat shall be applied to the finished surfaces of all new concrete areas and the deck and approach slab repairs.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. This final finish will not be measured for payment, but shall be included in the contract unit price for the associated work.

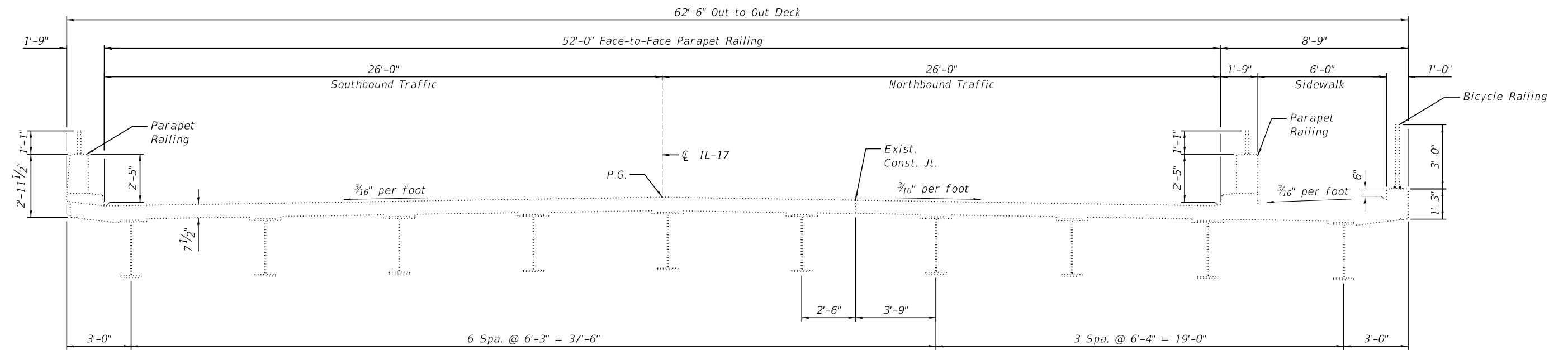
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

Expansion joints shall be fabricated and installed according to the manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

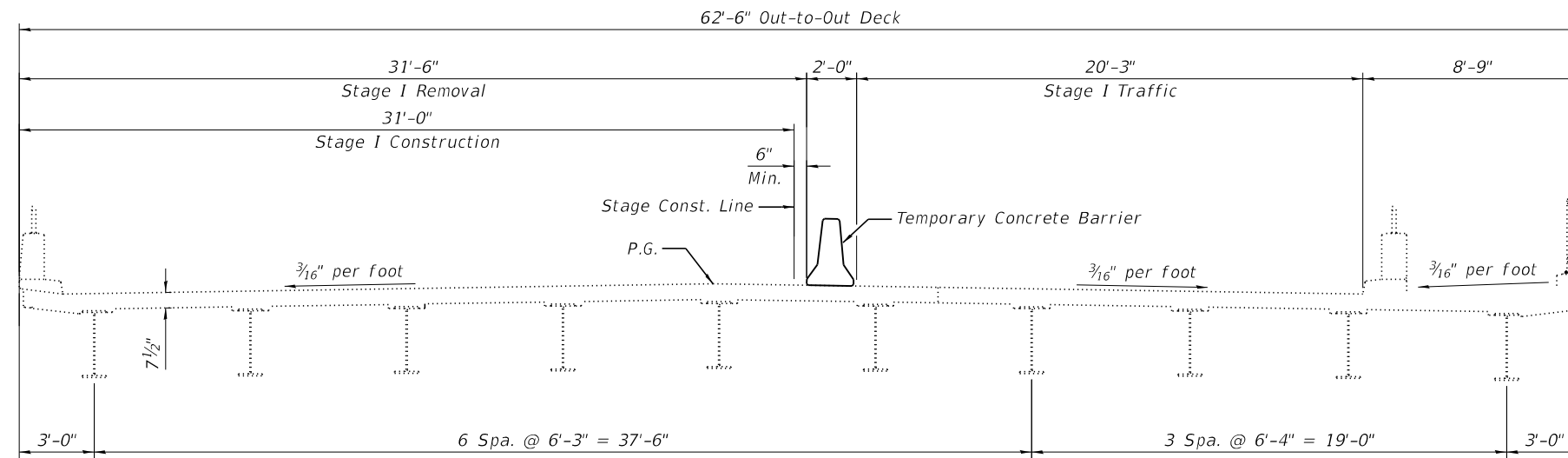
TOTAL BILL OF MATERIAL SN 046-0023

Item	Unit	Total
Concrete Removal	Cu. Yd.	14.8
Concrete Superstructure	Cu. Yd.	14.8
Protective Coat	Sq. Yd.	224
Reinforcement Bars, Epoxy Coated	Pound	2,210
Bar Splicers	Each	24
Parapet Railing	Foot	66
Preformed Joint Strip Seal	Foot	121
Approach Slab Repair (Partial Depth)	Sq. Yd.	62
Cleaning Bridge Scuppers and Downspouts	Each	10
Floor Drains to be Cleaned	Each	14
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	23.3
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Partial)	Sq. Yd.	154

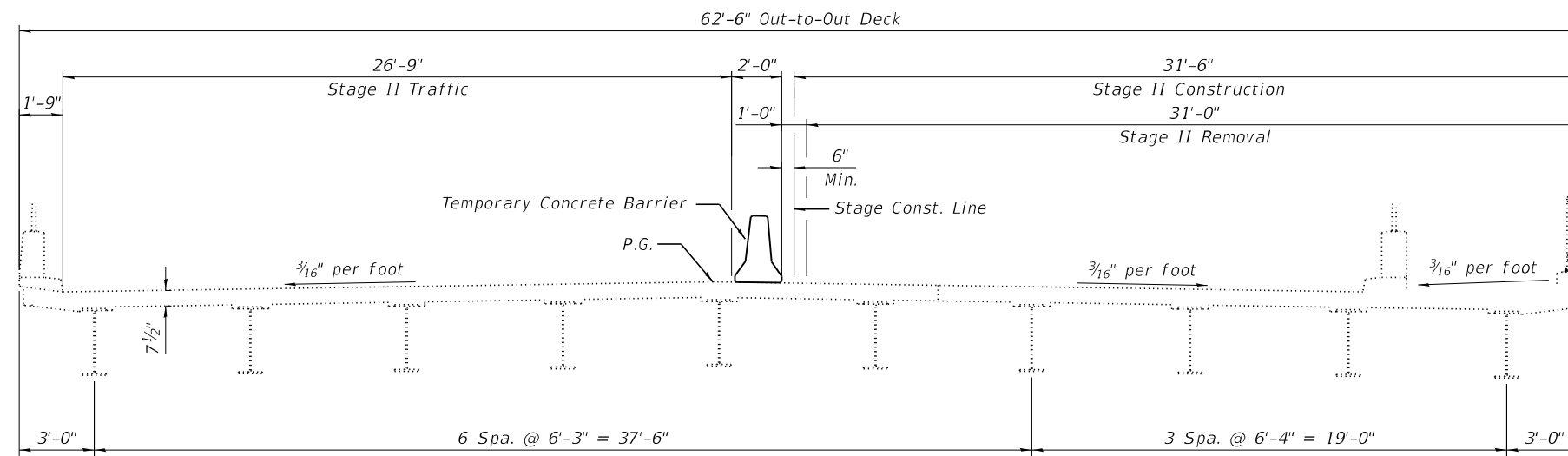


EXISTING CROSS SECTION
(Looking North)

 CIVIL DESIGN, INC. WBE DBE EFFINGHAM, IL LICENSE # 184.003222	USER NAME = \$USERS	DESIGNED - MIH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION STRUCTURE NO. 046-0023		F.A.P. RTE. = 132-IL-1/17	SECTION = 6XBR	COUNTY = KANKAKEE	TOTAL SHEETS = 45	SHEET NO. = 24	
	PLOT SCALE = \$SCALES	CHECKED - JGS	REVISED -		SCALE:	SHEET 3 OF 12 SHEETS	STA. TO STA.	CONTRACT NO. 66N52				
	PLOT DATE = 5/7/2024	DATE - 12/22/2023	REVISED -		ILLINOIS FED. AID PROJECT							



STAGE I CONSTRUCTION
(Looking North)



STAGE II CONSTRUCTION
(Looking North)



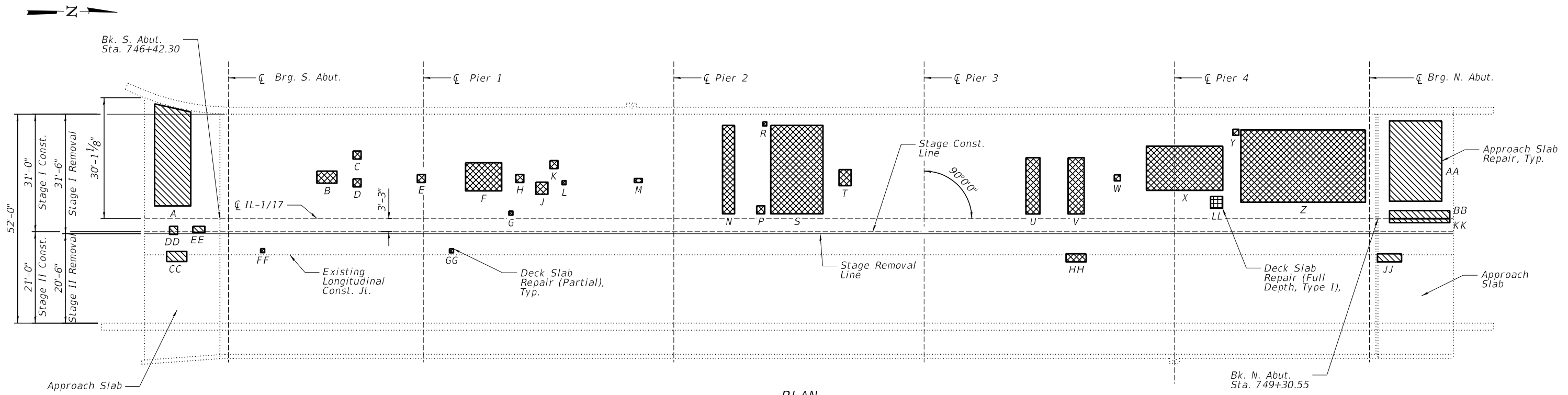
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PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
	DATE - 12/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 046-0023**

SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	25
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



PLAN

APPROACH SLAB REPAIR (PARTIAL DEPTH)

Const. Stage	Area	Length (Ft.)	Width (Ft.)	Area (Sq. Yd.)
I	A	9	24.5	24.5
I	AA	13	20	28.9
I	BB	15	2	3.3
II	CC	5	2.5	1.4
II	DD	2	2	0.4
II	EE	3	1.5	0.5
II	JJ	6	2	1.3
II	KK	15	1	1.7

DECK SLAB REPAIR (FULL DEPTH, TYPE I)

Const. Stage	Area	Length (Ft.)	Width (Ft.)	Area (Sq. Yd.)
II	LL	3	3	1.0

DECK SLAB REPAIR (PARTIAL)

Const. Stage	Area	Length (Ft.)	Width (Ft.)	Area (Sq. Yd.)
I	B	5	3	1.7
I	C	2	2	0.4
I	D	2	2	0.4
I	E	2	2	0.4
I	F	9	7	7.0
I	G	1	1	0.1
I	H	2	2	0.4
I	J	3	3	1.0
I	K	2	2	0.4
I	L	1	1	0.1
I	M	2	1	0.2
I	N	3	22	7.3
I	P	2	2	0.4
I	R	1	1	0.1
I	S	13	22	31.8
I	T	3	4	1.3
I	U	3.5	14	5.4
I	V	4	14	6.2
I	W	1.5	1.5	0.3
I	X	19	11	23.2
I	Y	1.5	1.5	0.3
I	Z	31	18	62.0
II	FF	1	1	0.1
II	GG	1	1	0.1
II	HH	5	2	1.1

NOTES:

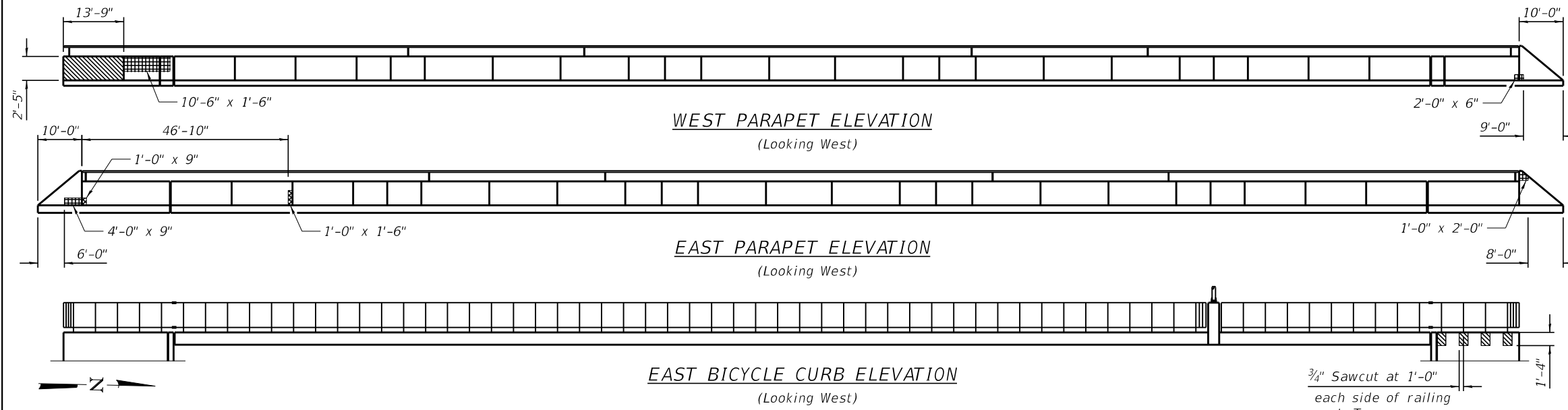
The Engineer shall show actual locations of deck repairs on as-built plans.
 Extreme care must be used when removing concrete near the top flange of the beams. The Contractor is responsible for any damage to the beams.
 Quantities and limits of repairs shown are estimated only. The actual areas to be repaired shall be determined by the Engineer at the time of construction.

LEGEND

- Approach Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Partial)

BILL OF MATERIAL

Item	Unit	Total
Approach Slab Repair (Partial Depth)	Sq. Yd.	62
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Partial)	Sq. Yd.	154

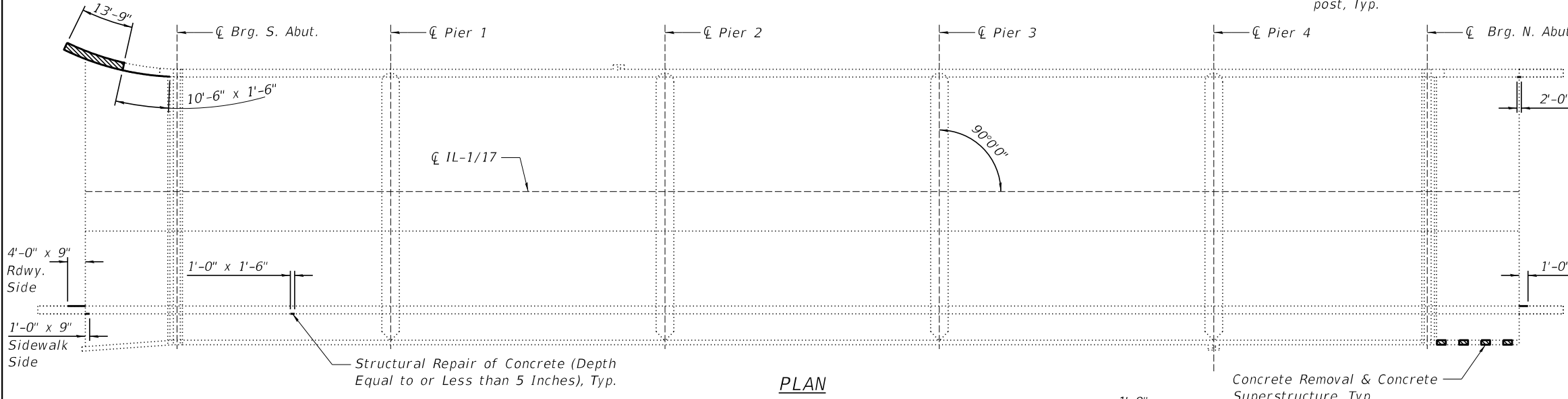


NOTES:

The Rail Posts within the parapet removal and replacement limits shall be removed to allow for the repair work to be completed. Following completion of the parapet ends, the Rail Posts shall be reattached. It is the option of the Contractor to either save and reuse the existing cast-in-place anchor system or use epoxy-grouted threaded rods. The cost of this work shall be included in Concrete Superstructure. See As-Built Plans for parapet railing and bicycle railing details.

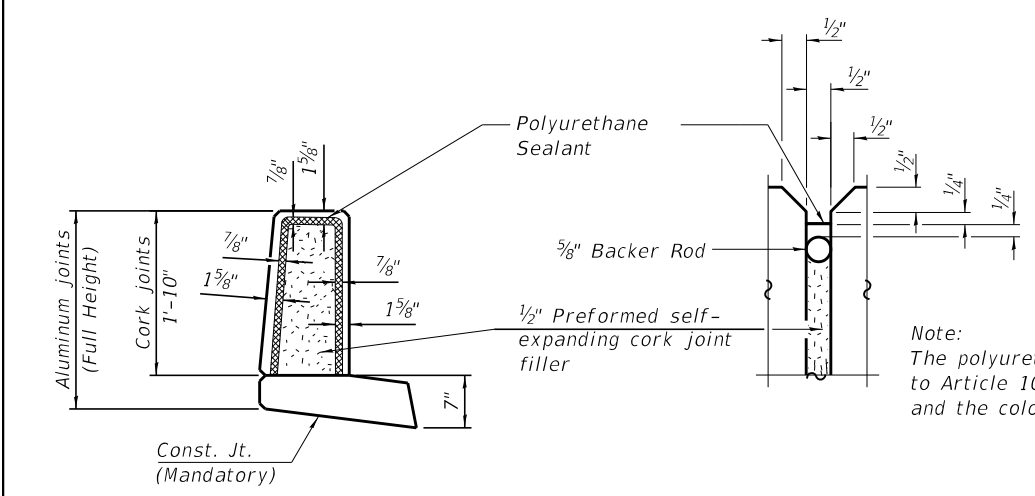
Limits of Parapet Removal and Replacement were identified Dec. 18, 2023. The Engineer shall determine if additional areas require removal and replacement at time of construction.

The cost of the work to replace parapet joints shall be included in Concrete Superstructure.

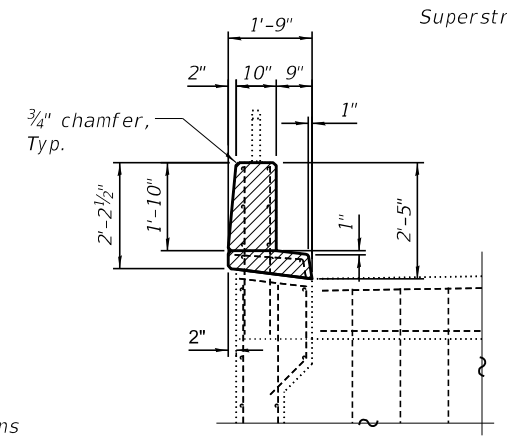


LEGEND

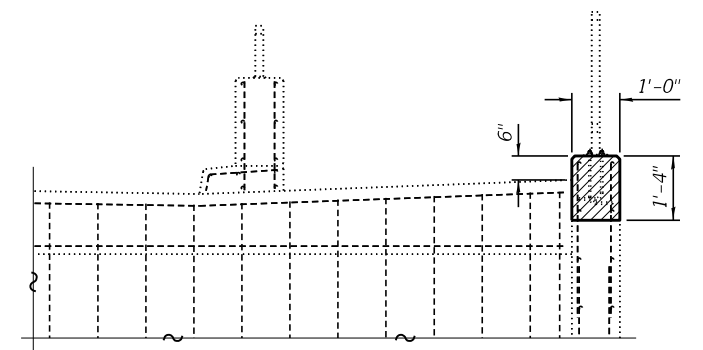
- Concrete Removal & Concrete Superstructure
- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) - Roadway side of Parapet
- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) - Back side of Parapet



Note: The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray



Note: All existing reinforcement to remain in place.



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	2.9
Concrete Superstructure	Cu. Yd.	2.9
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	23.3



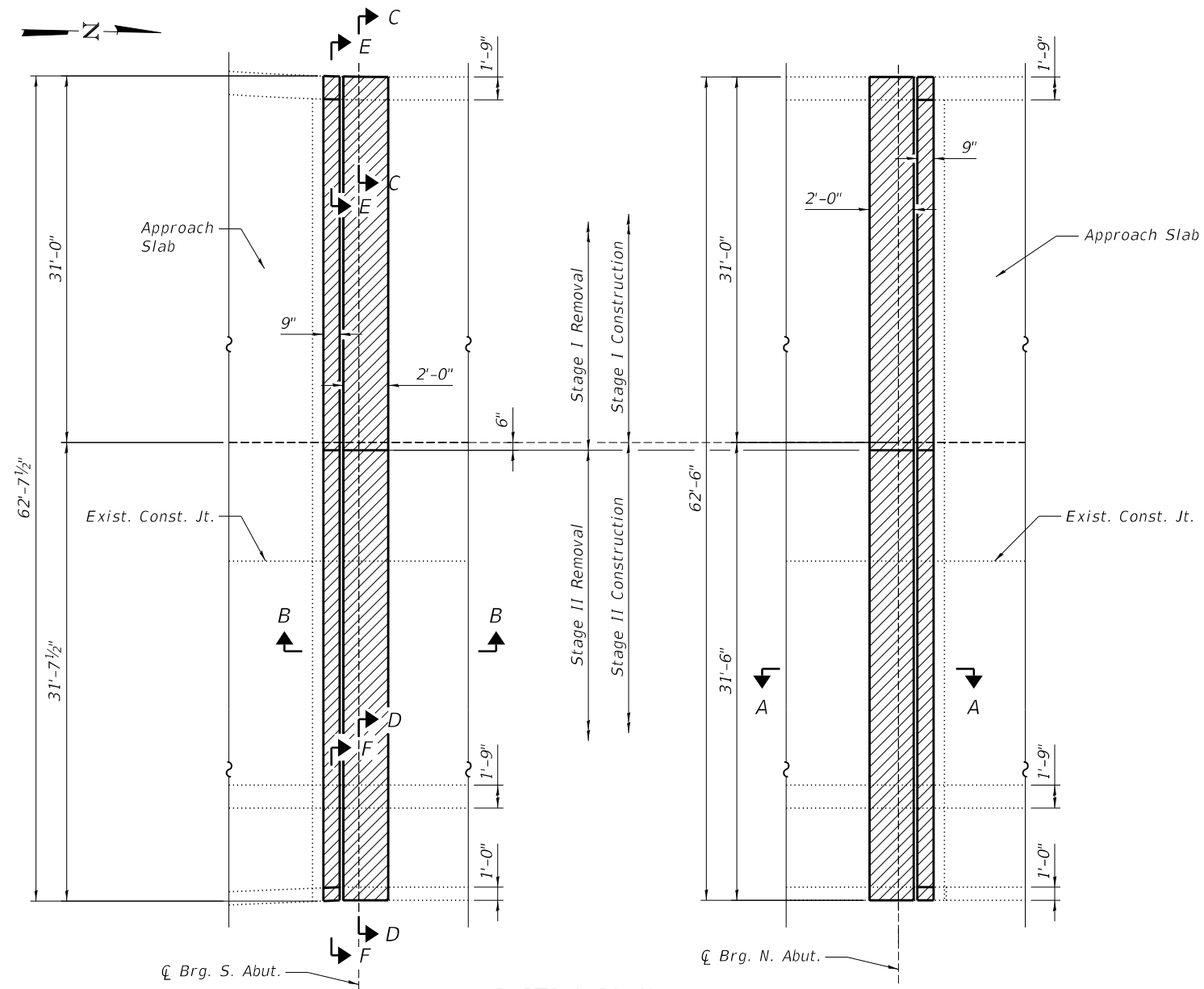
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	DATE - 12/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

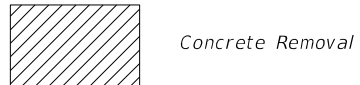
PARAPET REPAIR DETAILS
STRUCTURE NO. 046-0023

SCALE: SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	27
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				



PARTIAL PLAN



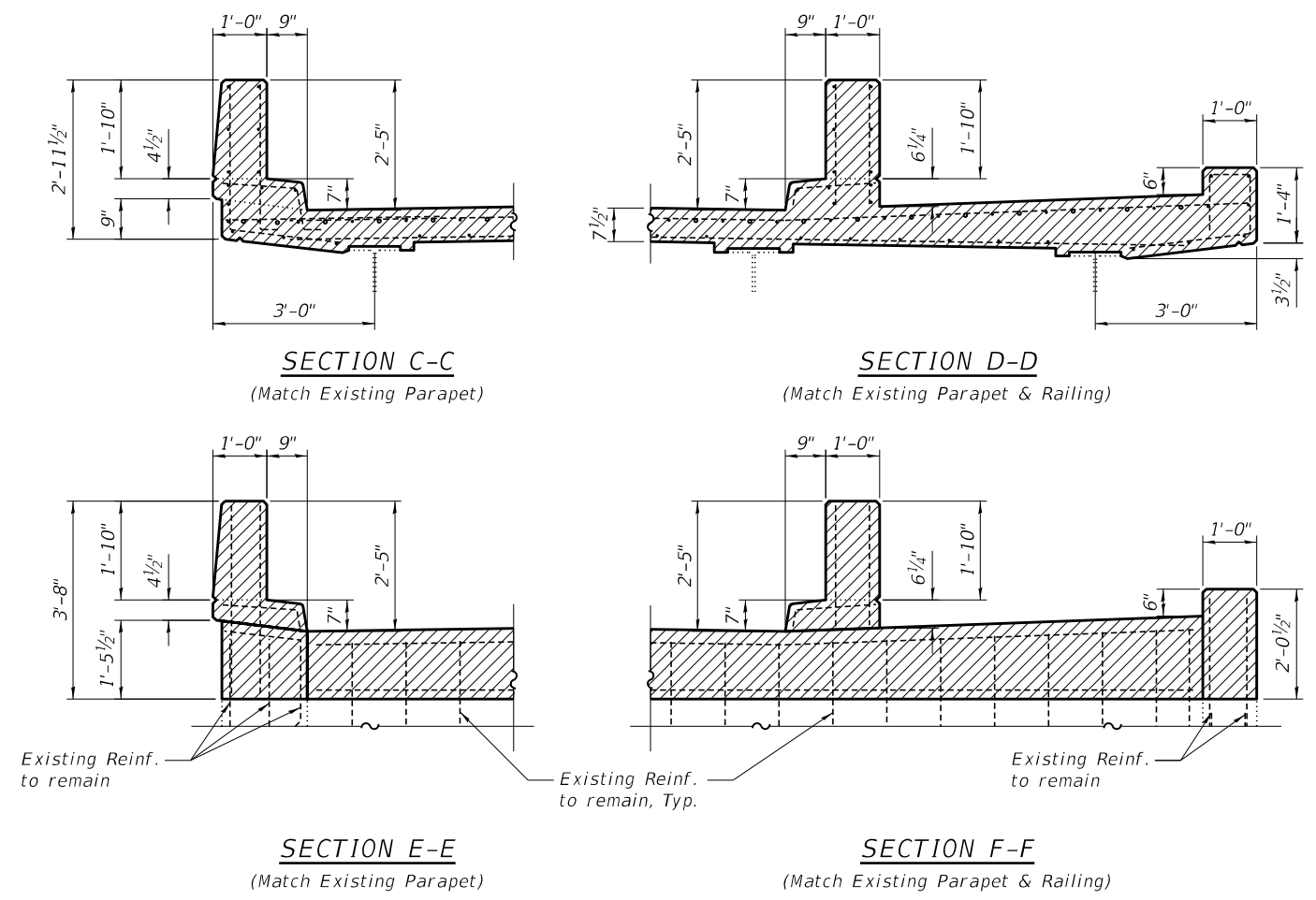
NOTES:

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 shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

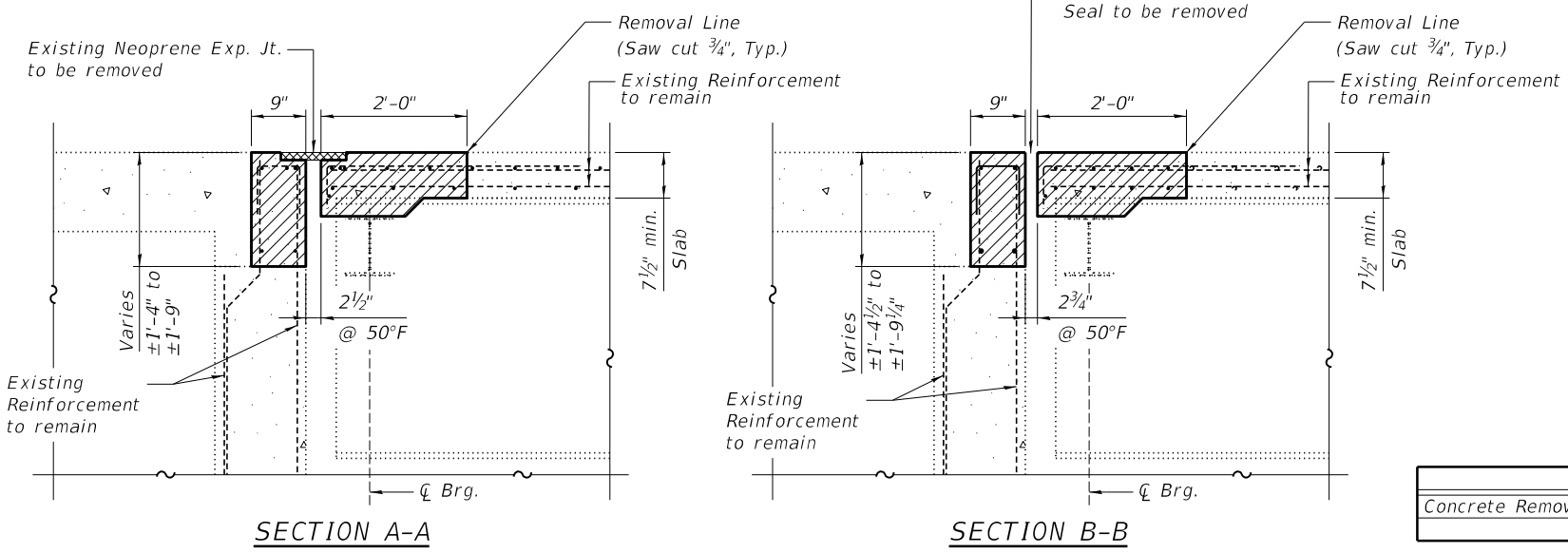
The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be reattached. The cost of this work shall be included in Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.



TYPICAL SECTION THRU. ABUTMENT



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	10.6



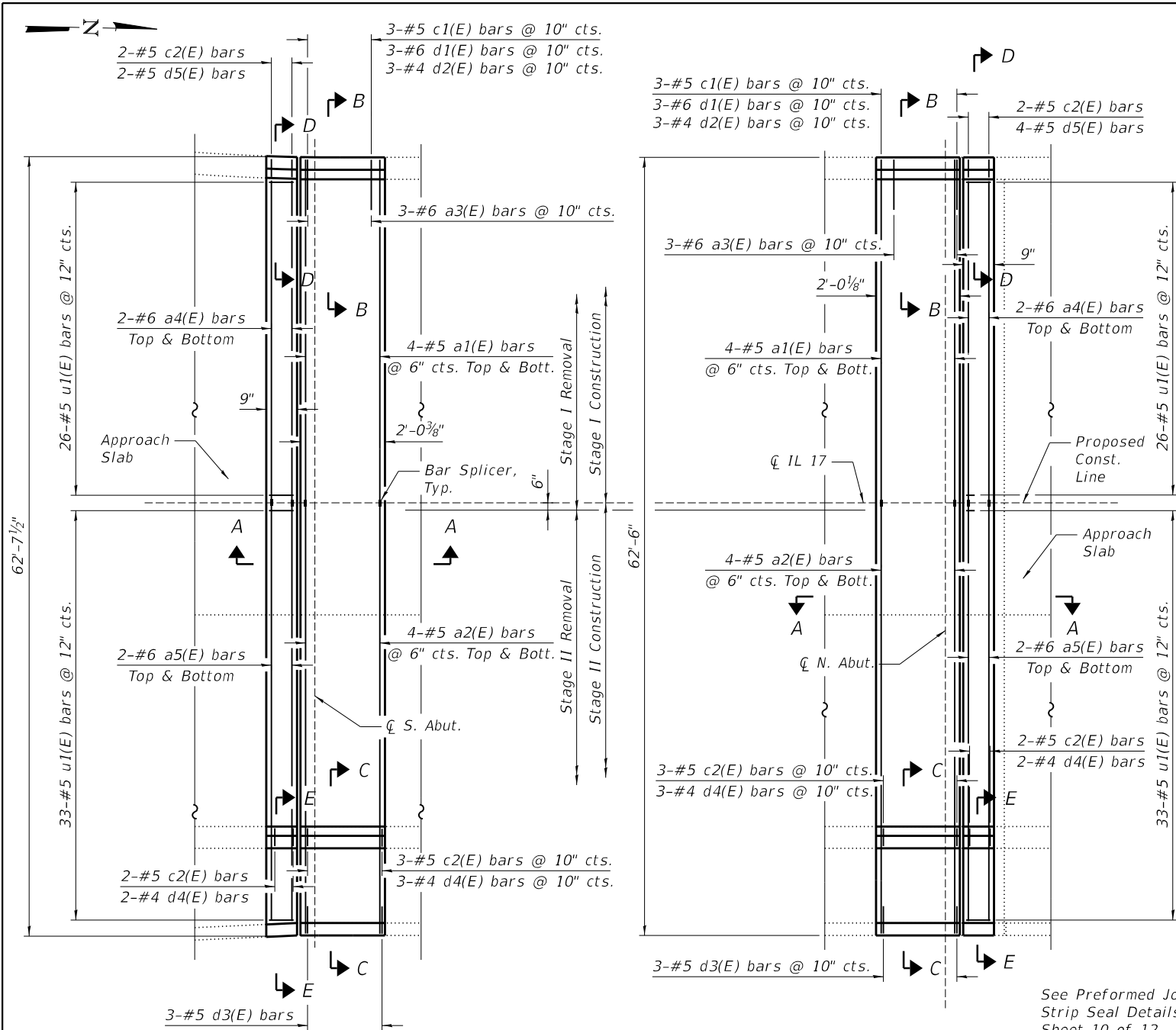
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	DATE - 12/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

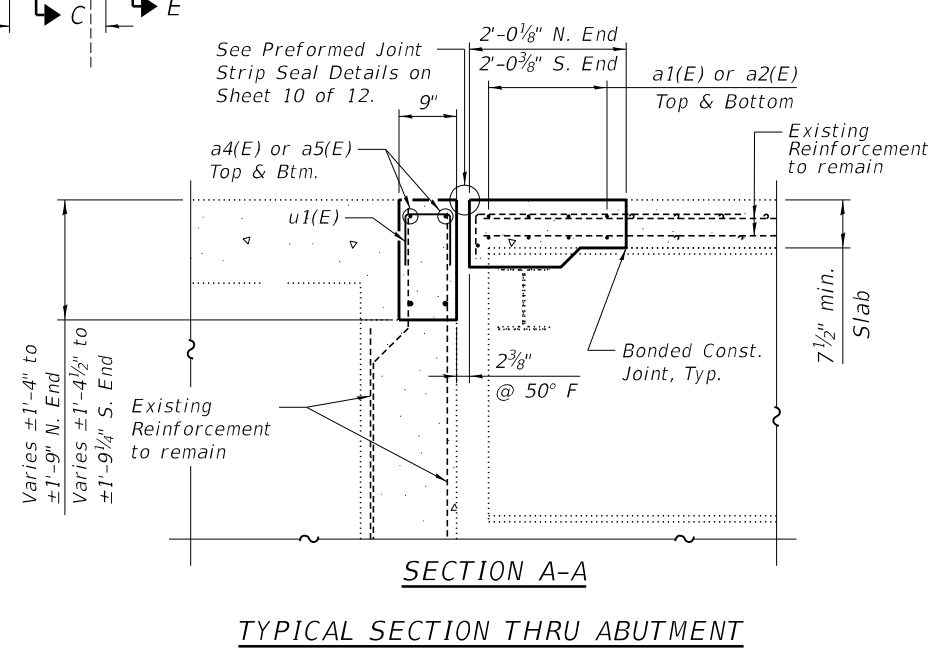
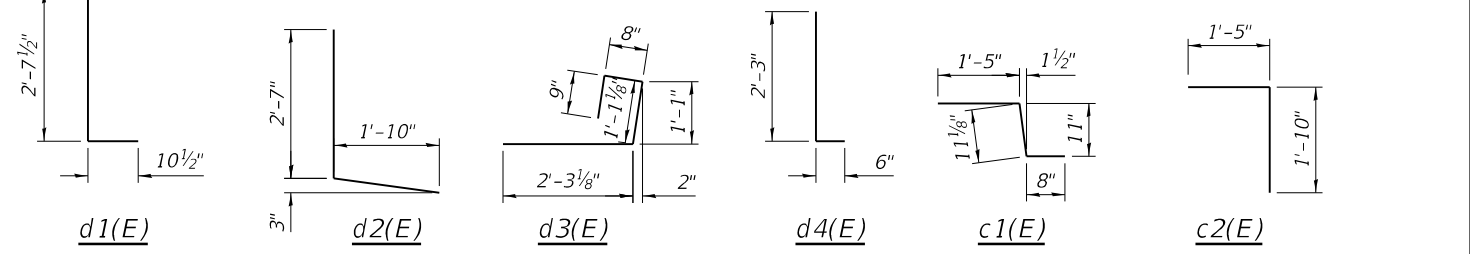
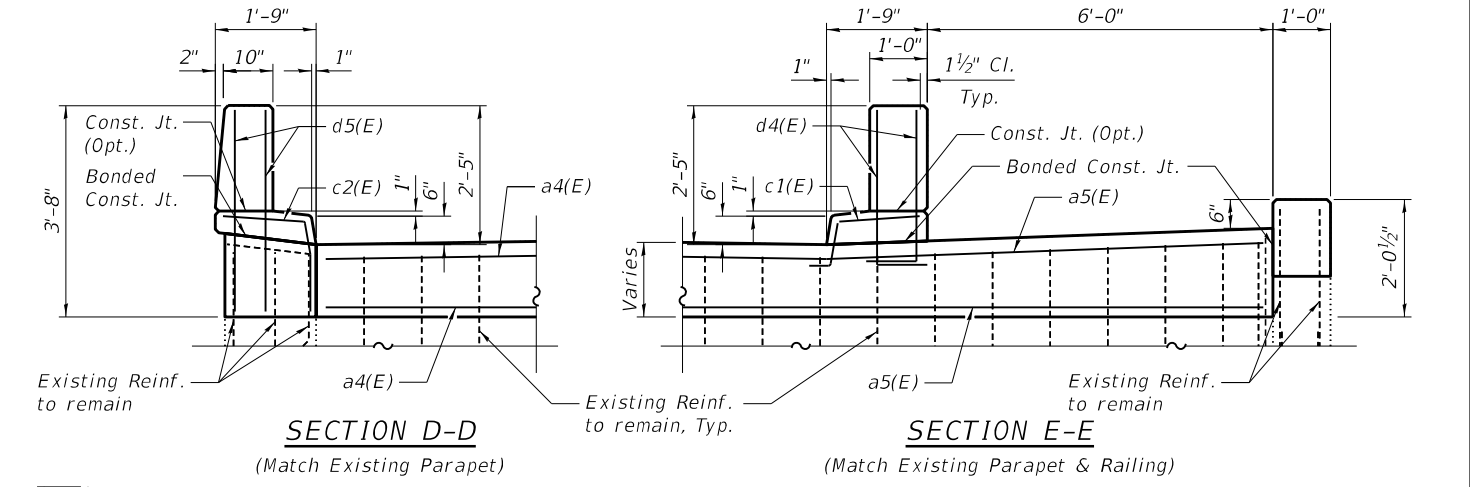
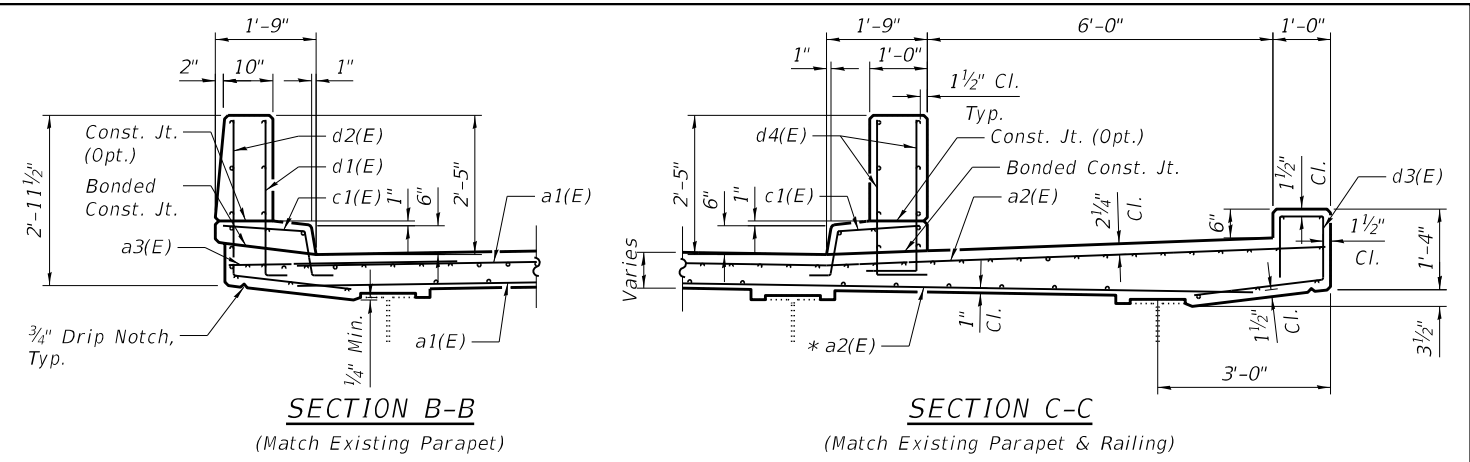
**SUPERSTRUCTURE - CONCRETE REMOVAL DETAILS
STRUCTURE NO. 046-0023**

F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66N52	

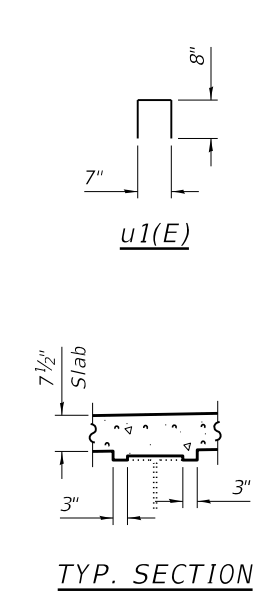
SCALE: SHEET 7 OF 12 SHEETS STA. TO STA.



PARTIAL PLAN



SECTION A-A
TYPICAL SECTION THRU ABUTMENT



TYP. SECTION

* Cut bars in the field to fit.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	16	#5	30'-9"	—
a2(E)	16	#5	31'-4"	—
a3(E)	8	#6	4'-0"	—
a4(E)	8	#6	29'-2"	—
a5(E)	8	#6	30'-4"	—
c1(E)	16	#5	3'-1"	—
c2(E)	4	#5	3'-3"	—
d1(E)	6	#6	3'-6"	—
d2(E)	6	#4	4'-6"	—
d3(E)	6	#5	4'-7"	—
d4(E)	20	#4	2'-9"	—
d5(E)	4	#5	3'-6"	—
u1(E)	118	#5	1'-9"	—
Concrete Superstructure			Cu. Yd.	10.4
Reinforcement Bars, Epoxy Coated			Pound	2,210

NOTES:

Reinforcement bars designated (E) shall be epoxy coated.
The parapet railing posts shall be temporarily removed and re-erected in the areas of parapet removal. Cost included with Concrete Superstructure. Any portion of railing that is damaged during construction shall be replaced at the Contractor's expense.



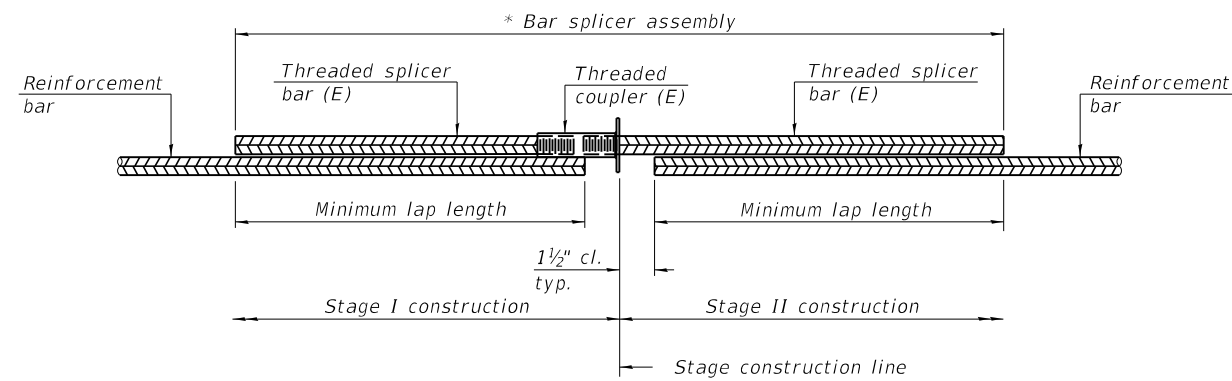
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PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
	DATE - 12/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - DECK REINFORCEMENT DETAILS
STRUCTURE NO. 046-0023

SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66N52	



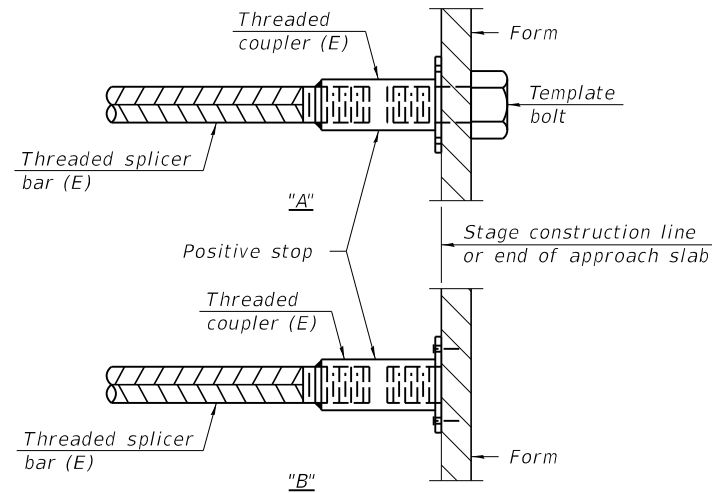
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck End	#5	16	3'-6"
Approach End	#6	8	4'-0"

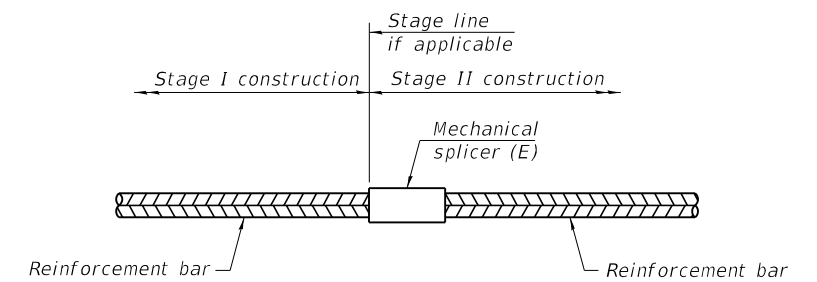


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-1-2023



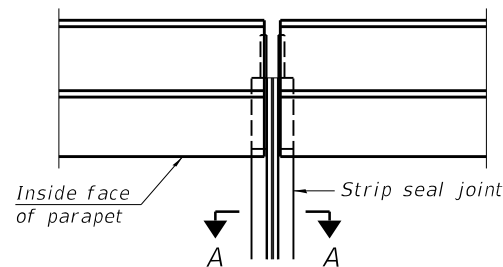
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PLOT DATE = 5/7/2024	DATE - 12/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

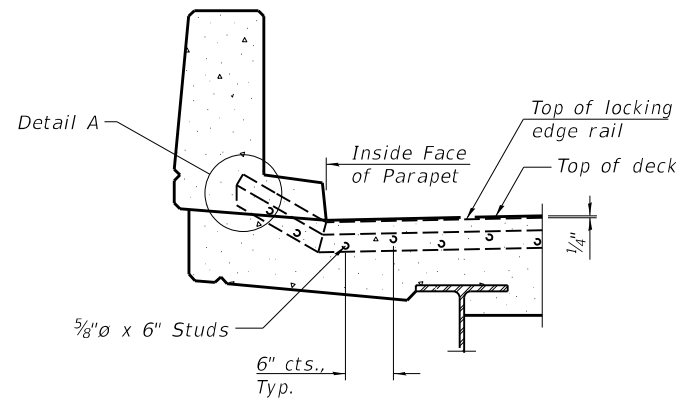
BAR SPLICER ASSEMBLY AND MECH. SPLICER DETAILS
STRUCTURE NO. 046-0023

SCALE: SHEET 9 OF 12 SHEETS STA. TO STA.

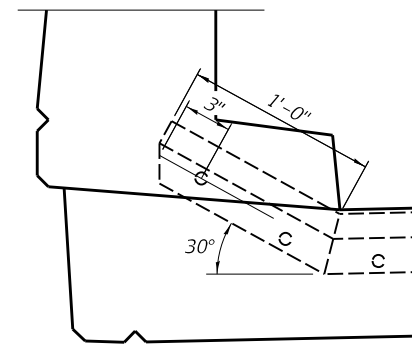
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	30
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



PLAN AT PARAPET



ELEVATION AT PARAPET



DETAIL A

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 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 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

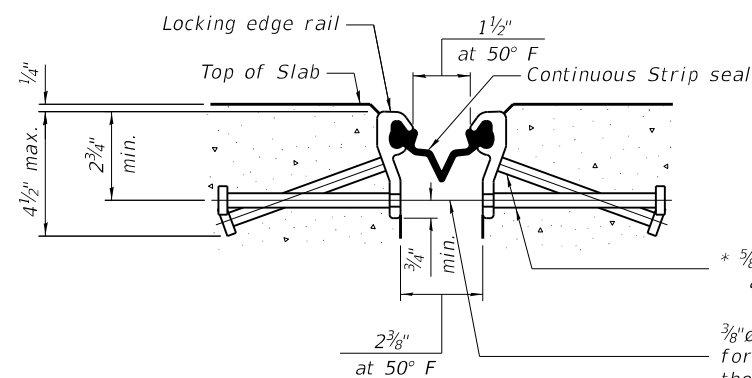
All steel components shall be galvanized after fabrication according to article 520.03 of the Standard Specifications.

The maximum space between locking edge rail segments shall be 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.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with preformed joint strip seal.

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.



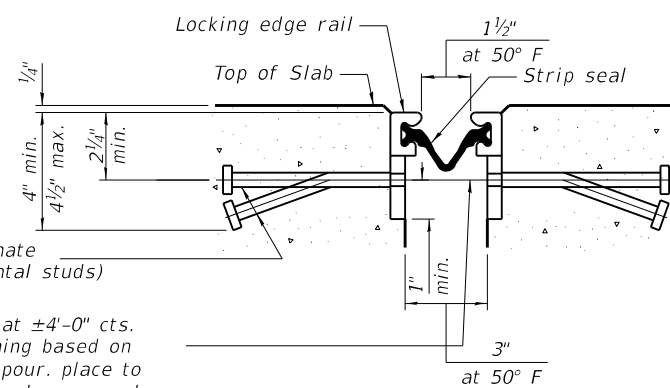
SHOWING ROLLED RAIL JOINT

* 5/8" x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

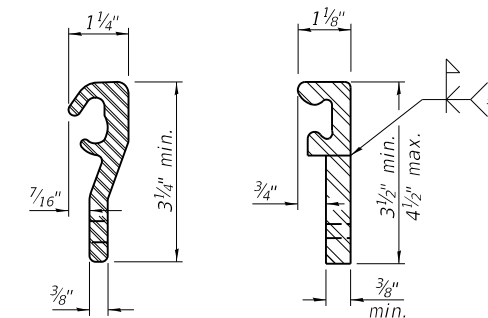
3/8" threaded rods in 7/16" holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to article 1006.32 of the std. specs., automatically end welded.

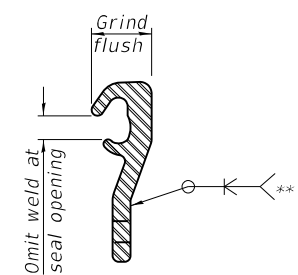


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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	121



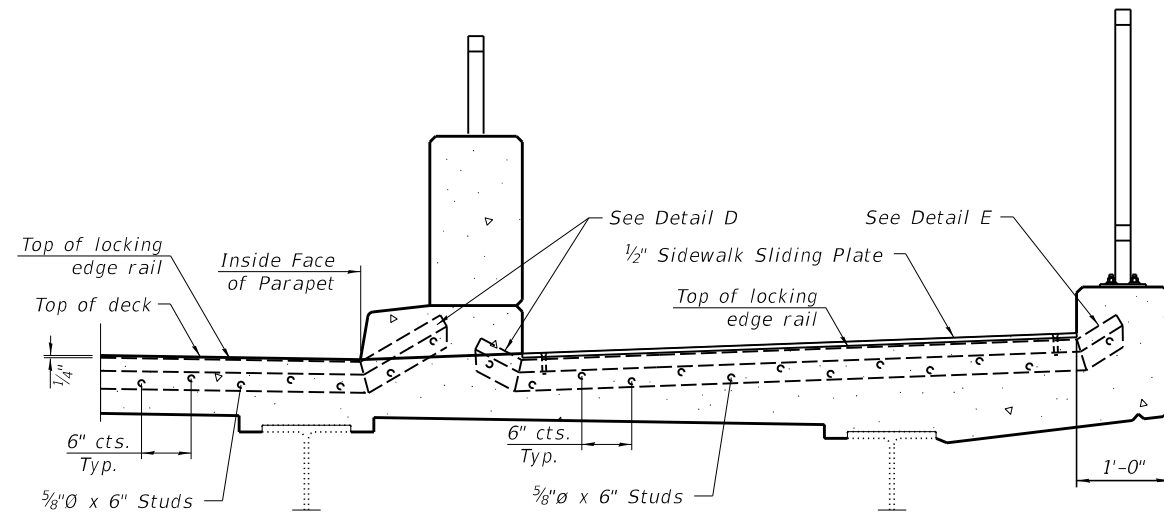
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

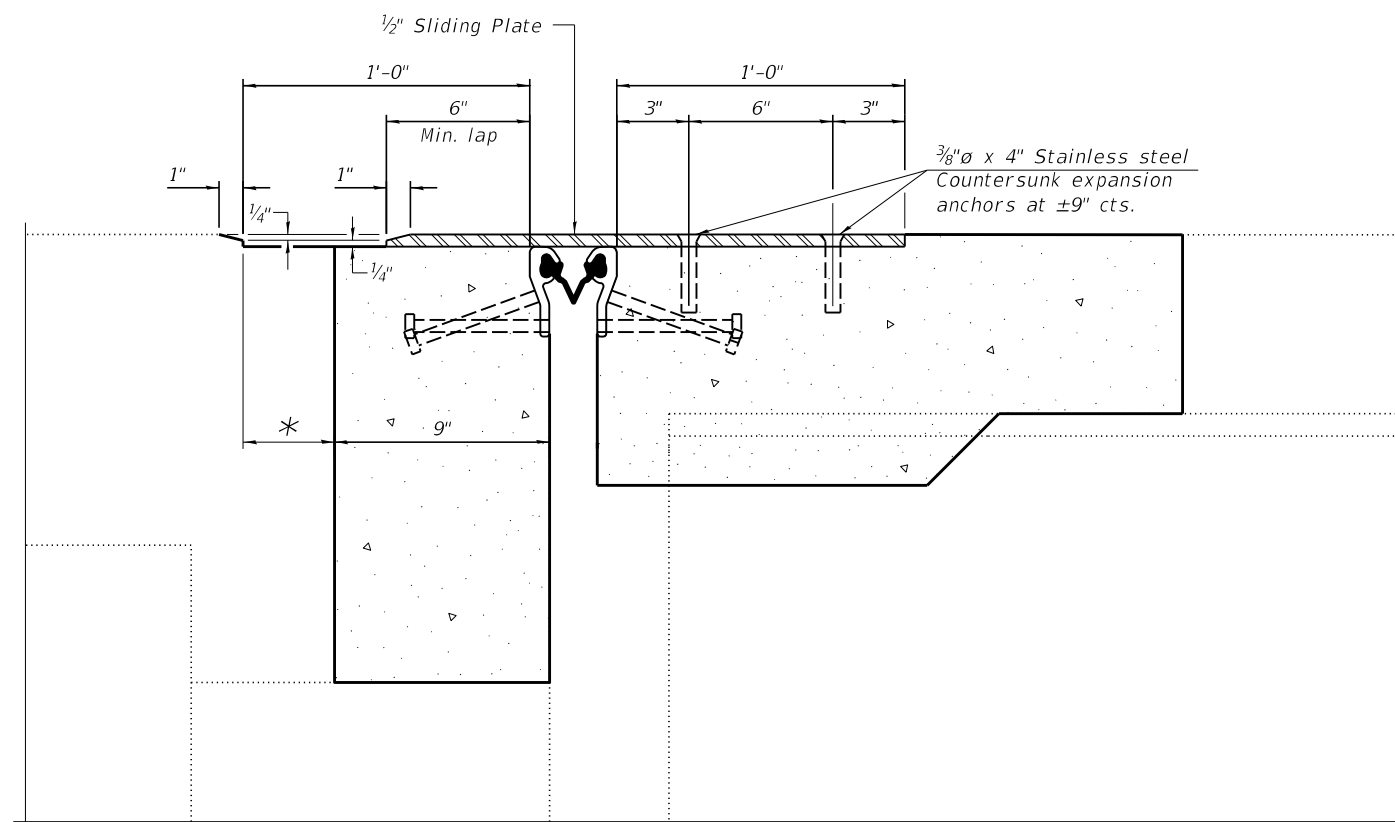
PREFORMED JOINT STRIP SEAL DETAILS AT WEST PARAPET
STRUCTURE NO. 046-0023

SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	31
CONTRACT NO. 66N52				
ILLINOIS		FED. AID PROJECT		

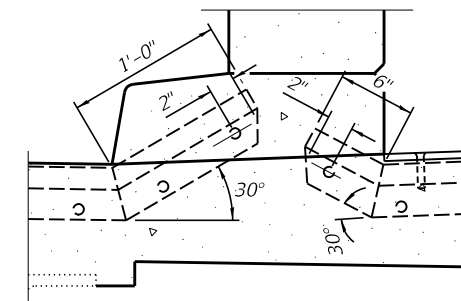


SECTION B-B
SECTION AT DECK LEVEL SIDEWALK

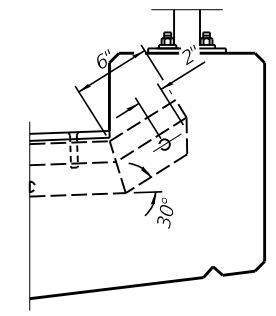


SECTION C-C

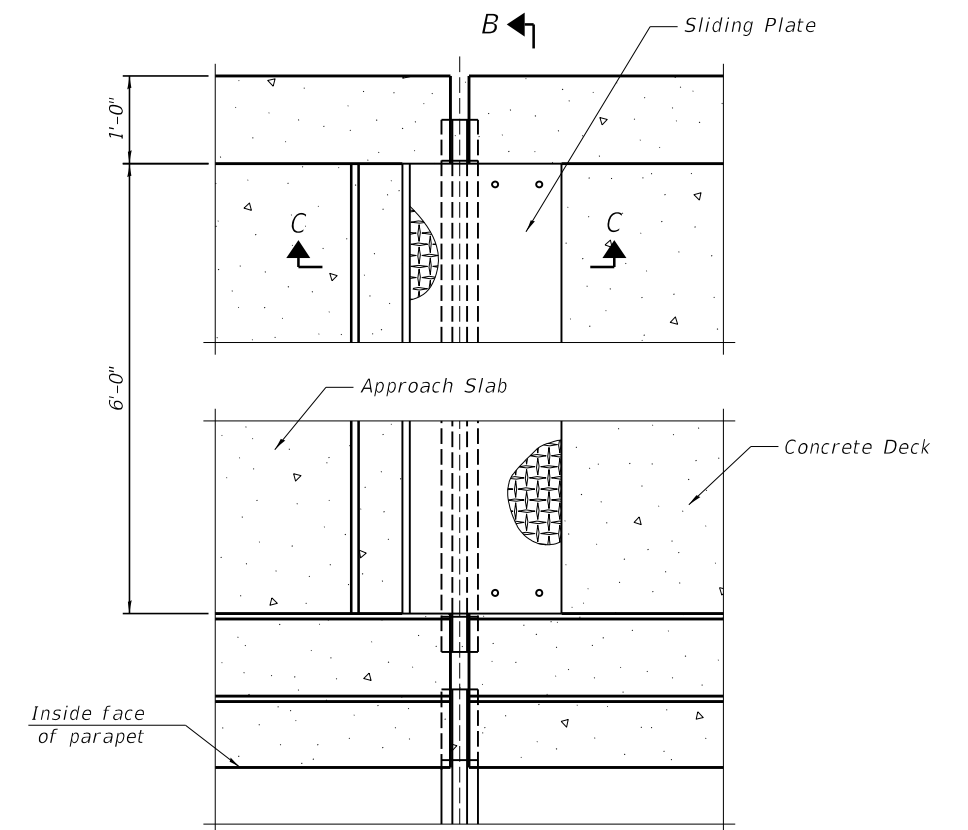
* The approach slab shall be ground $\frac{1}{2}$ " to allow steel plate to slide at sidewalk only.
See Sheet 12 of 12 for details of rail joint.
The cost of the $\frac{1}{2}$ " sliding plate and accessories shall be included with the cost of Preformed Joint Strip Seal.



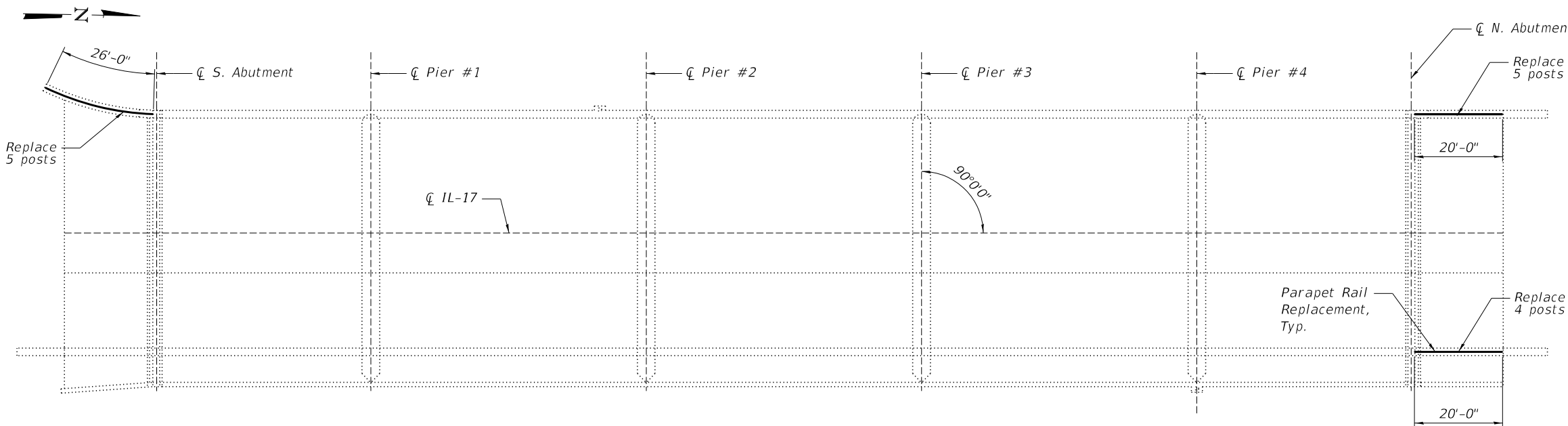
DETAIL D



DETAIL E

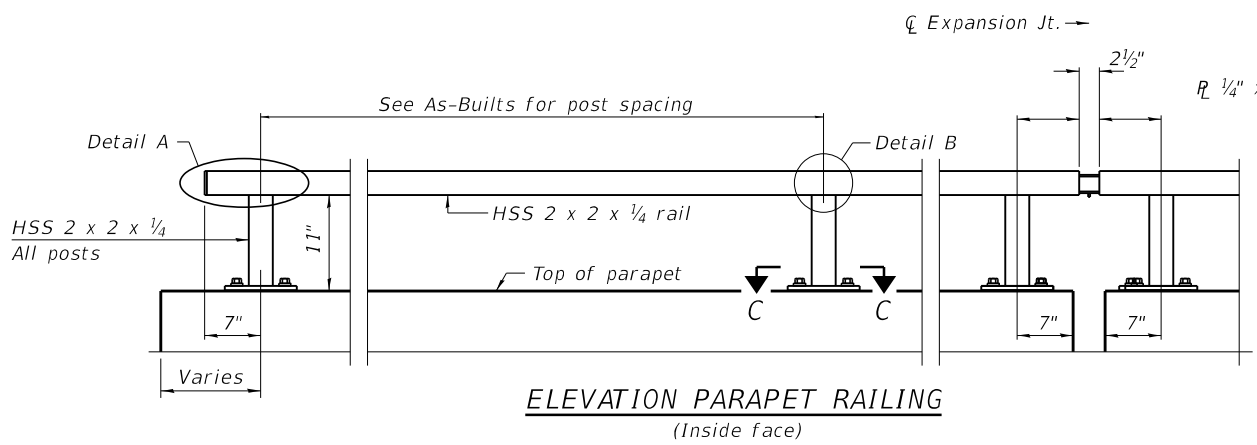


PLAN AT DECK LEVEL SIDEWALK

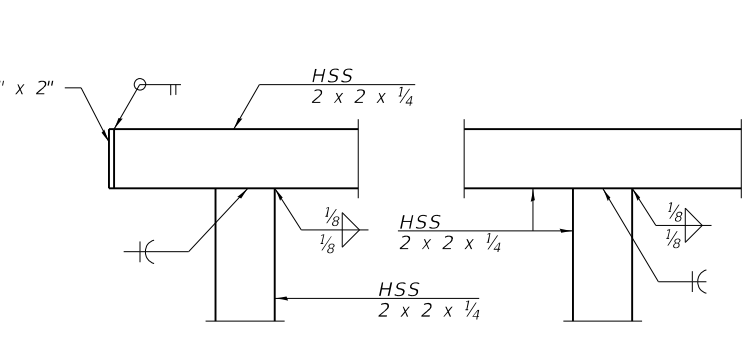


Notes:
 Place reinforcement bars to miss anchor rod locations.
 All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 All HSS tubing used for the Parapet Railing shall be ASTM A500 Grade C.
 All base plates used for the Parapet Railing shall be AASHTO M270 Grade 50.
 All heavy hex nuts shall be according to ASTM A 563 Grade DH.
 All fully threaded anchor rods shall be ASTM F1554 Grade 105.
 The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.
 Rail splice inserts may be built out of bent plates of the 3/8" thicknesses and outside geometry limits as the bar stock shown.
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.
 See sheet 8 of 12 for dimensions of concrete openings at expansion joints.

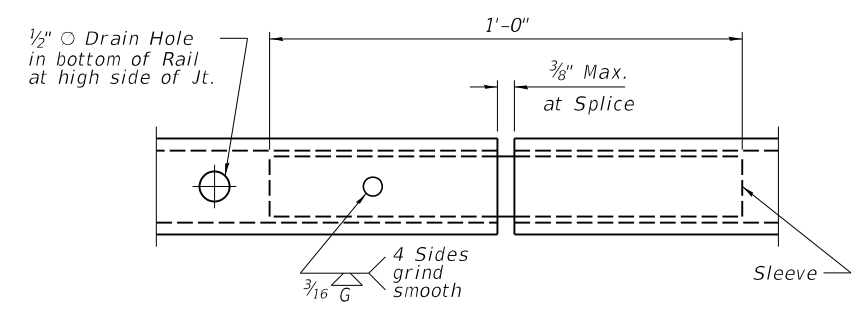
PLAN



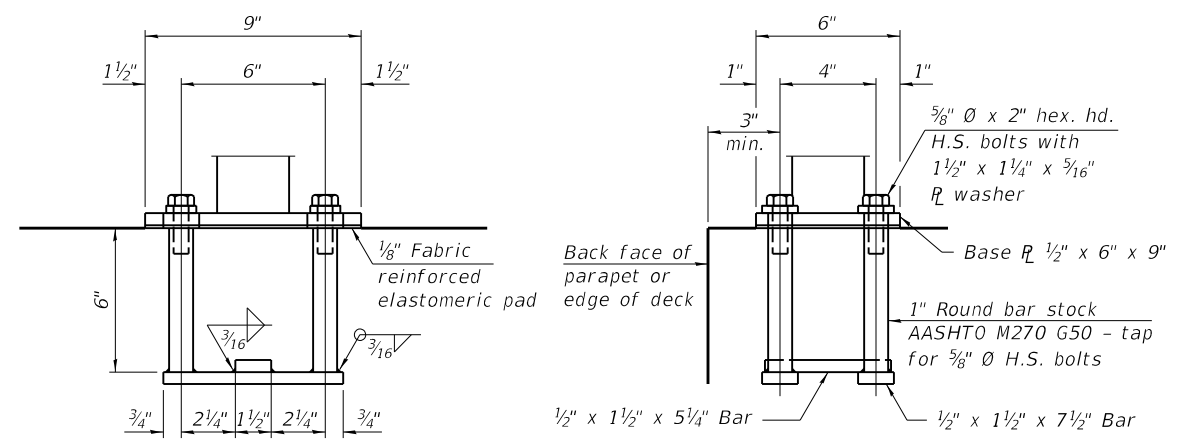
ELEVATION PARAPET RAILING
(Inside face)



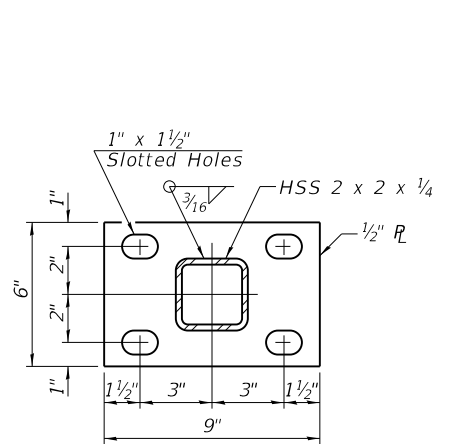
DETAIL A **DETAIL B**



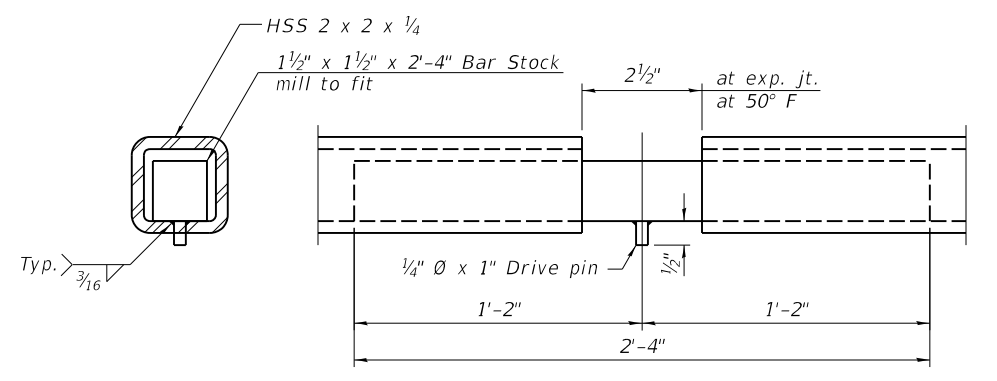
SPLICE JOINT



ANCHORAGE ASSEMBLY



SECTION C-C



EXPANSION SPLICE

T = ≤ 4"; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Total
Parapet Railing	Foot	66

The Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



USER NAME = \$USERS
 DESIGNED - MIH
 DRAWN - MIH
 CHECKED - JGS
 DATE - 12/22/2023

REVISER -
 REVISION -
 REVISION -
 REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE PARAPET RAILING
STRUCTURE NO. 046-0023

SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

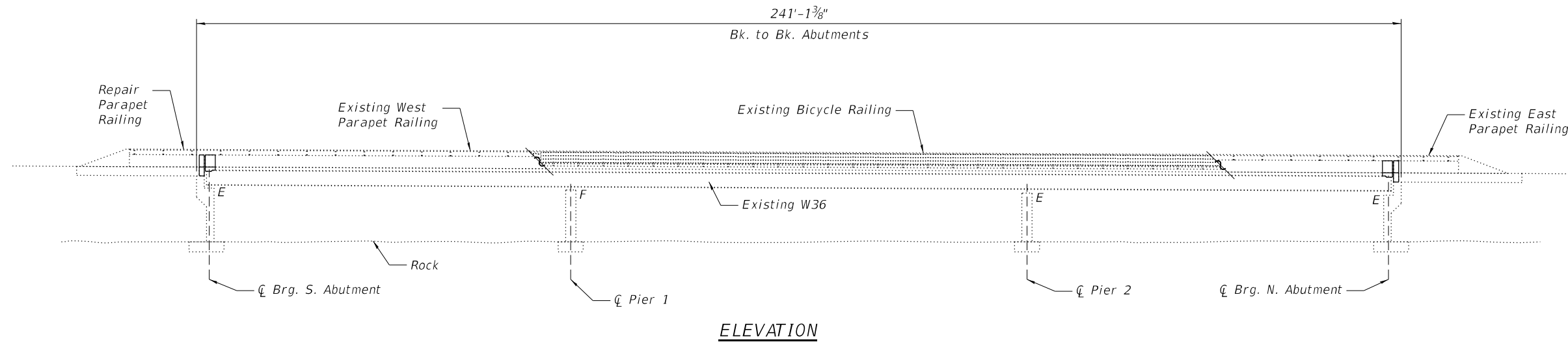
F.A.P. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.
 132-IL-1/17 6XBR KANKAKEE 45 33
 CONTRACT NO. 66N52
 ILLINOIS FED. AID PROJECT

Structure 046-0111 was originally constructed in 1986 at Station 26+75 in Section 6XBR-1 of Kankakee County. The existing three span steel continuous bridge consists of eight 36" WF steel beams supporting a nominal 7½" thick reinforced concrete deck. The superstructure is supported by two piers and two abutments on spread footings.

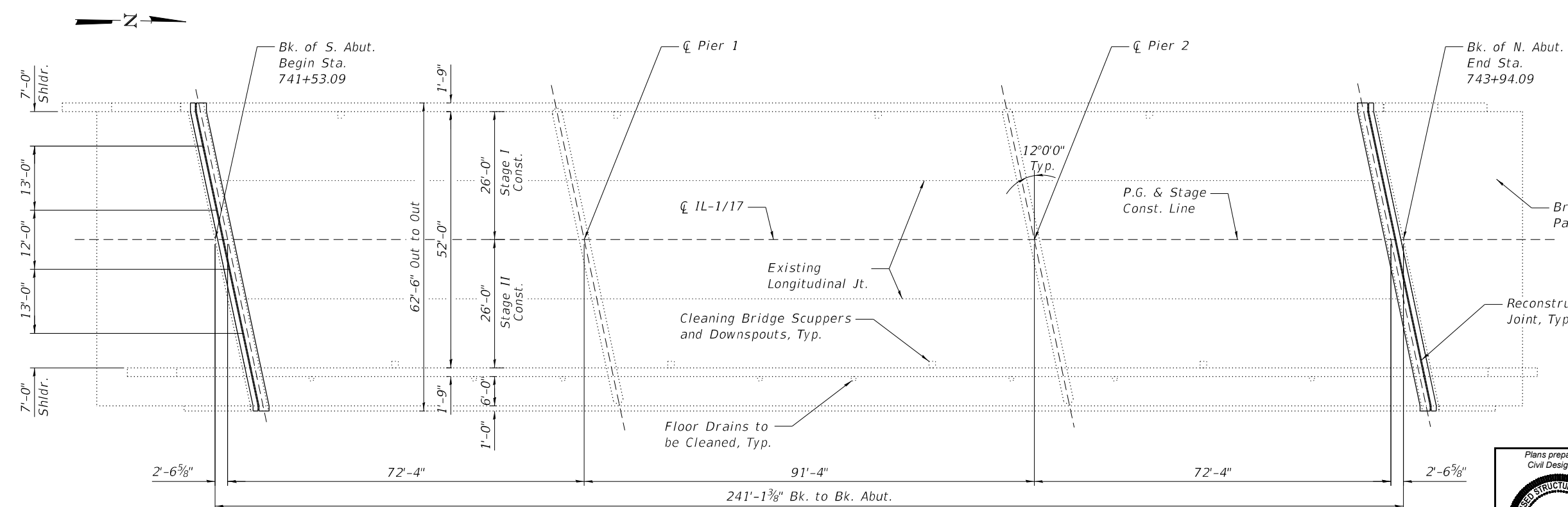
The structure has an overall length of 241'-0" from back to back of abutments. The deck has an out to out width of 62'-6", a roadway width of 52'-0" and a 6'-0" pedestrian walk.

PROPOSED WORK

1. Remove deck ends and parapet at deck ends.
2. Remove existing joints.
3. Perform deck repairs.
4. Install expansion joints and pour deck ends.
5. Insert strip seal into locking edge rails.
6. Pour parapets.
7. Repair parapet railing and concrete parapet.
8. Clean bridge scuppers and floor drains.



ELEVATION

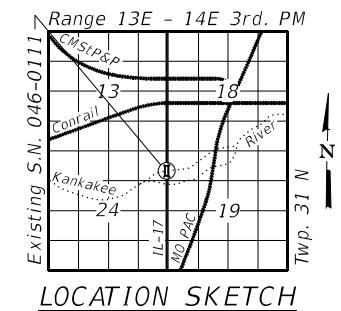


PLAN

**DESIGN STRESSES
FIELD UNITS**

New Construction
 f'c = 4,000 psi
 fy = 60,000 psi (Reinforcement)

Existing Structure
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Structural Steel, M-183)
 f'c = 50,000 psi (Structural Steel, M-223, Gr. 50)



Plans prepared by
Civil Design, Inc.

JASON G. SCHRECKENBERG
081.006845
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

Date: 05/06/2024
Expiration: 11/30/2024



USER NAME = \$USERS	DESIGNED - MJH	REVISOR -
PLOT SCALE = \$SCALES	DRAWN - MJH	REVISOR -
PLOT DATE = 5/7/2024	CHECKED - JGS	REVISOR -
	DATE - 12/22/2023	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 046-0111

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	34
CONTRACT NO. 66N52				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Protective Coat shall be applied to the finished surfaces of all new concrete areas and the deck and approach slab repairs.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. This final finish will not be measured for payment, but shall be included in the contract unit price for the associated work.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

Expansion joints shall be fabricated and installed according to the manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

TOTAL BILL OF MATERIAL SN 046-0111

Item	Unit	Total
Concrete Removal	Cu. Yd.	13.2
Concrete Superstructure	Cu. Yd.	13.0
Protective Coat	Sq. Yd.	94
Reinforcement Bars, Epoxy Coated	Pound	2,220
Bar Splicers	Each	24
Parapet Railing	Foot	46
Preformed Joint Strip Seal	Foot	136
Approach Slab Repair (Partial Depth)	Sq. Yd.	9
Cleaning Bridge Scuppers and Downspouts	Each	8
Floor Drains to be Cleaned	Each	8
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	19.5
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Partial)	Sq. Yd.	41



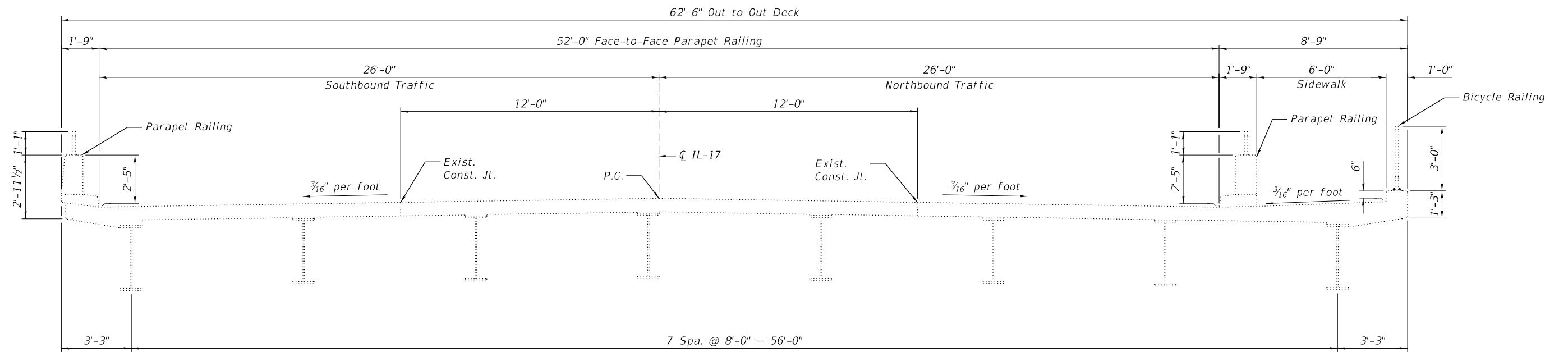
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	DRAWN - MJH	REVISED -
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PLOT DATE = 5/7/2024	DATE - 12/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 046-0111**

SCALE: SHEET 2 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	35
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



EXISTING CROSS SECTION
(Looking North)



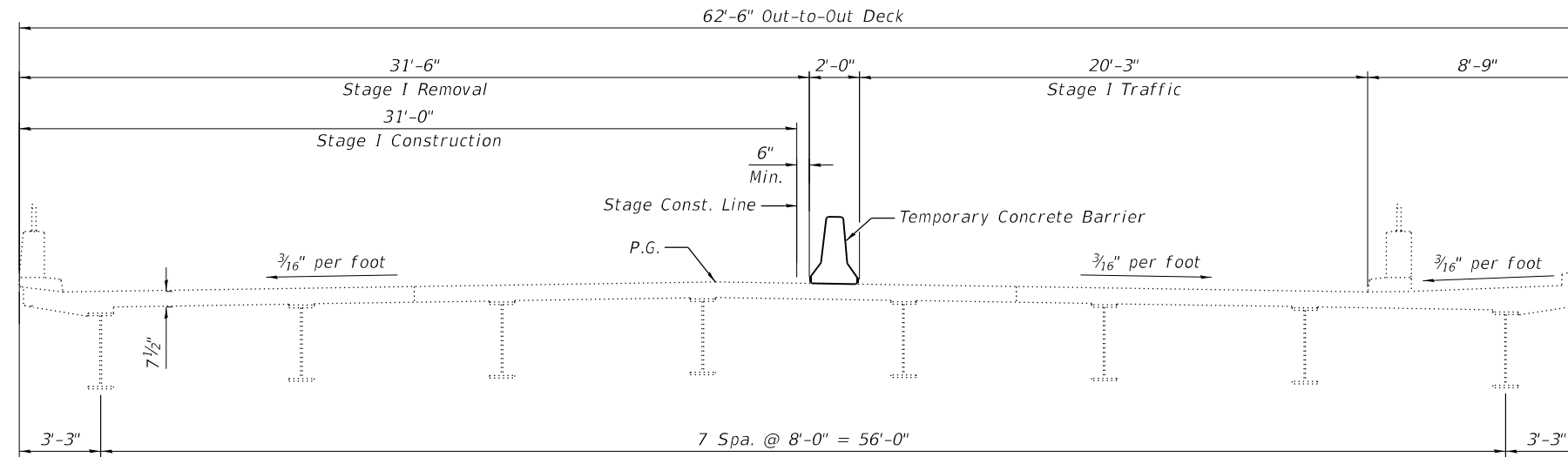
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PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
	DATE - 12/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

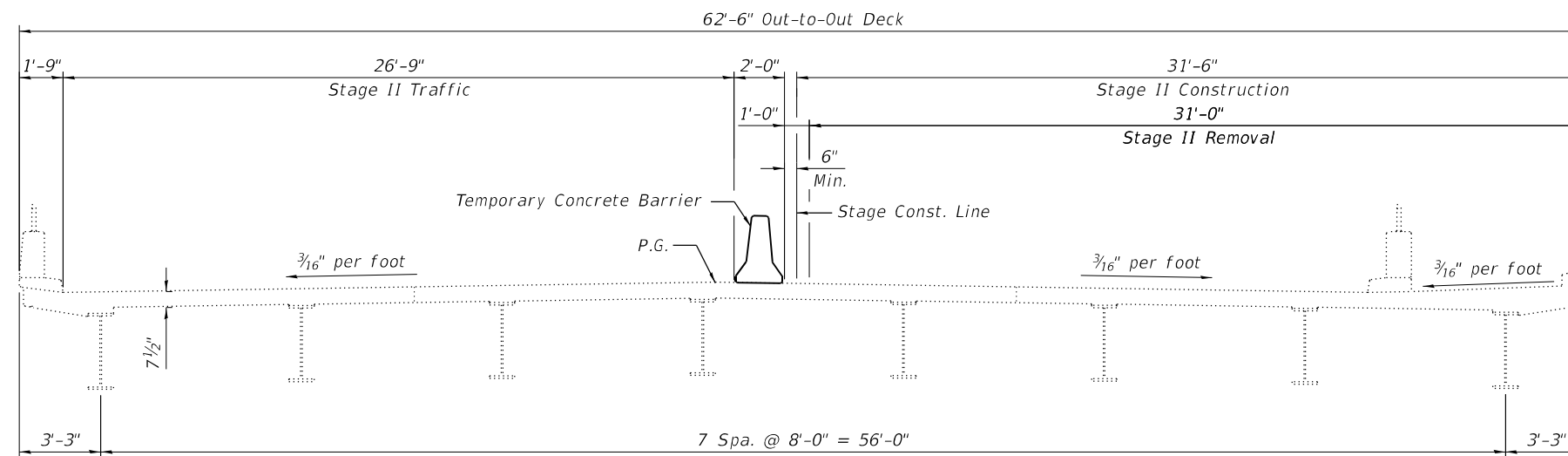
**TYPICAL SECTION
STRUCTURE NO. 046-0111**

SCALE: SHEET 3 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66N52	



STAGE I CONSTRUCTION
(Looking North)



STAGE II CONSTRUCTION
(Looking North)



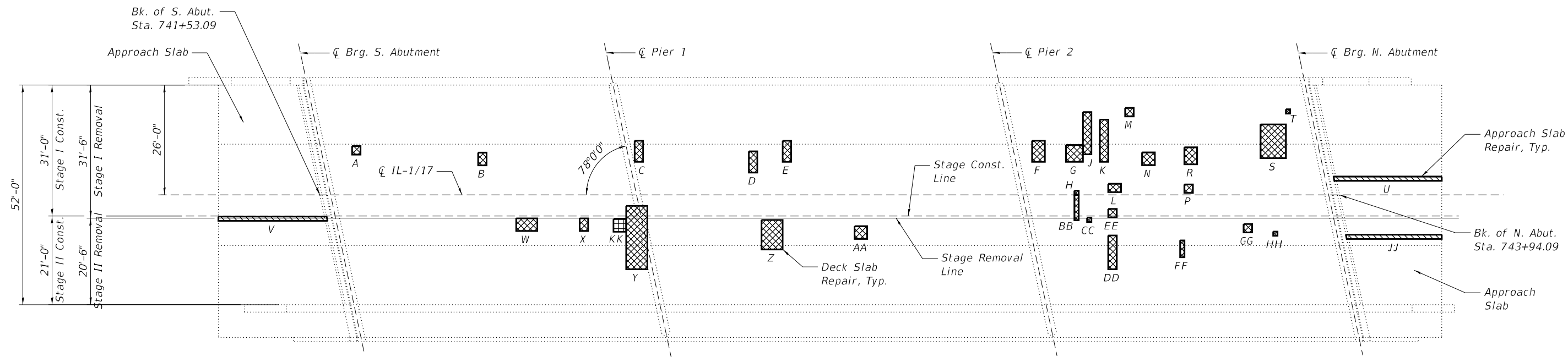
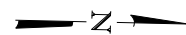
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DRAWN - MJH	REVISOR -	
CHECKED - JGS	REVISOR -	
DATE - 12/22/2023	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
STRUCTURE NO. 046-0111

SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	37
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



PLAN

Approach Slab Repair (Partial Depth)

Const. Stage	Area	Length (Ft.)	Width (Ft.)	Area (Sq. Yd.)
I	U	25.5	1	2.83
II	V	26	1	2.89
II	JJ	22.5	1	2.50

Deck Slab Repair (Full Depth, Type I)

Const. Stage	Area	Length (Ft.)	Width (Ft.)	Area (Sq. Yd.)
II	KK	3	3	1.00

Deck Slab Repair (Partial)

Const. Stage	Area	Length (Ft.)	Width (Ft.)	Area (Sq. Yd.)
I	A	2	2	0.44
I	B	2	3	0.67
I	C	2	5	1.11
I	D	2	2	1.11
I	E	2	5	1.11
I	F	3	5	1.67
I	G	4	4	1.78
I	H	1	1	0.11
I	J	2	10	2.22
I	K	2	10	2.22
I	L	3	2	0.67
I	M	2	2	0.44
I	N	3	3	1.00
I	P	2	2	0.44
I	R	3	4	1.33
I	S	6	8	5.33
I	T	1	1	0.11
II	W	5	3	1.67
II	X	2	3	0.67
II	Y	5	15	8.33
II	Z	5	7	3.89
II	AA	3	3	1.00
II	BB	1	6	0.67
II	CC	1	1	0.11
II	DD	2	8	1.78
II	EE	2	2	0.44
II	FF	1	4	0.44
II	GG	2	2	0.44
II	HH	1	1	0.11

NOTES:

The Engineer shall show actual locations of deck repairs on as-built plans.
 Extreme care must be used when removing concrete near the top flange of the beams. The Contractor is responsible for any damage to the beams.
 Quantities and limits of repairs shown are estimated only. The actual areas to be repaired shall be determined by the Engineer at the time of construction.

LEGEND

- Approach Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Partial)

BILL OF MATERIAL

Item	Unit	Total
Approach Slab Repair (Partial Depth)	Sq. Yd.	9
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Partial)	Sq. Yd.	41



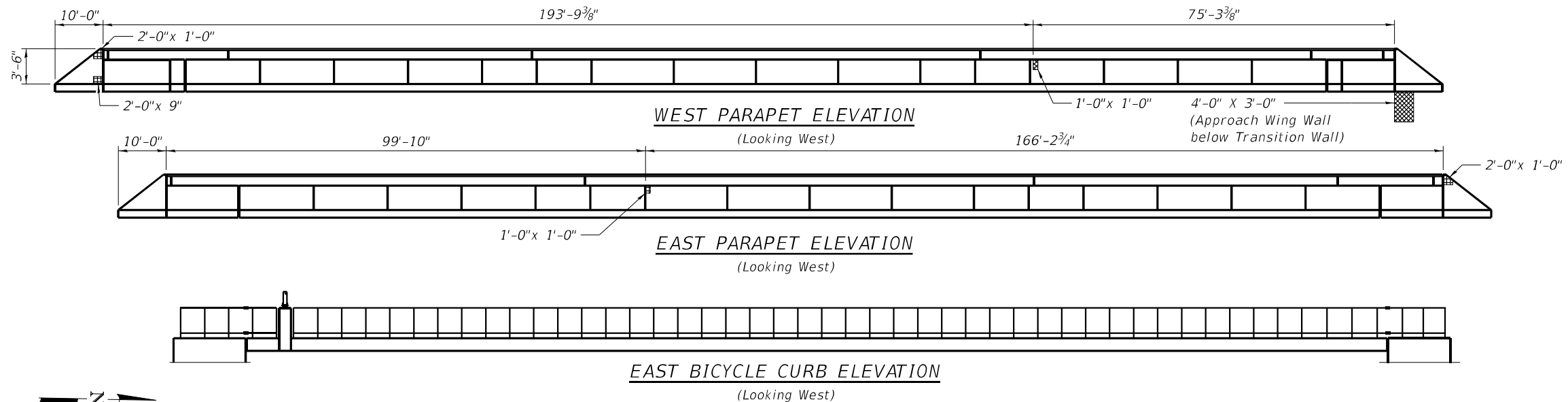
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PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
	DATE - 12/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR PLAN
STRUCTURE NO. 046-0111**

SCALE: SHEET 5 OF 12 SHEETS STA. TO STA.

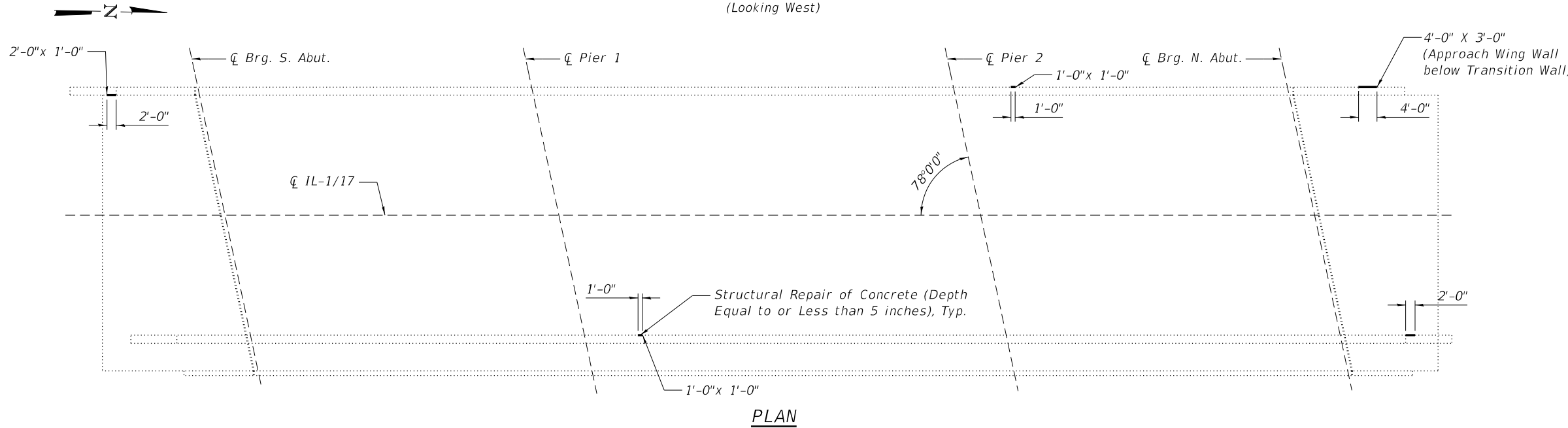
F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 38
				CONTRACT NO. 66N52
				ILLINOIS FED. AID PROJECT



NOTES:
 The Rail Posts within the parapet removal and replacement limits shall be removed to allow for the repair work to be completed. Following completion of the parapet ends, the Rail Posts shall be reattached. It is the option of the Contractor to either save and reuse the existing cast-in-place anchor system or use epoxy-grouted threaded rods. The cost of this work shall be included in Concrete Superstructure. See As-Built Plans for parapet railing and bicycle railing details.

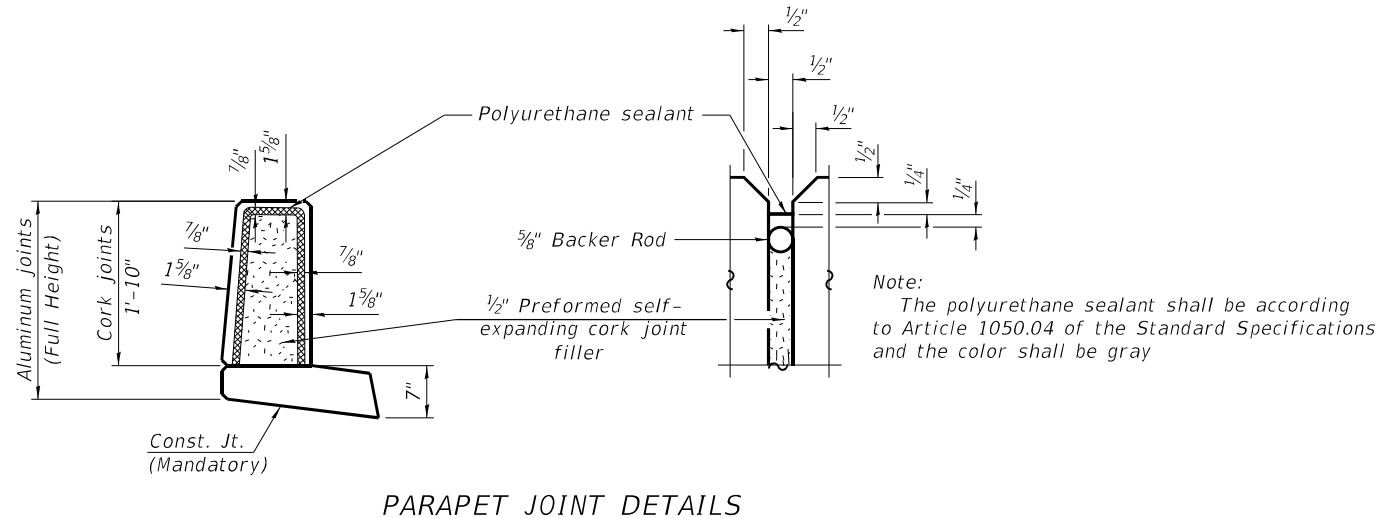
Areas of Concrete Removal and Superstructure were identified Dec 18, 2023. The Engineer shall determine if additional areas require removal and replacement at time of construction.

The cost of the work to replace parapet joints shall be included in Concrete Superstructure.



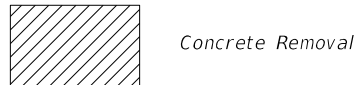
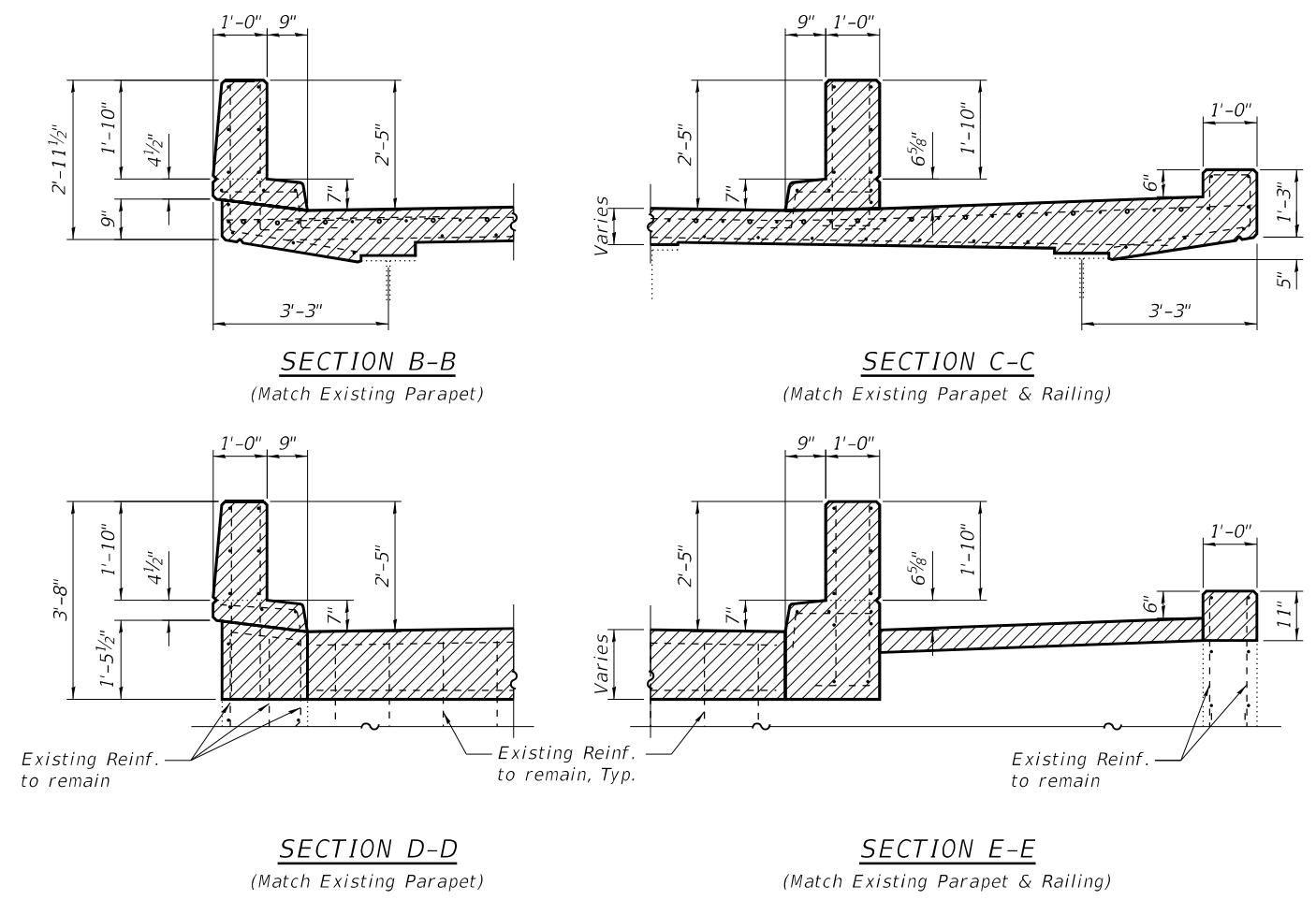
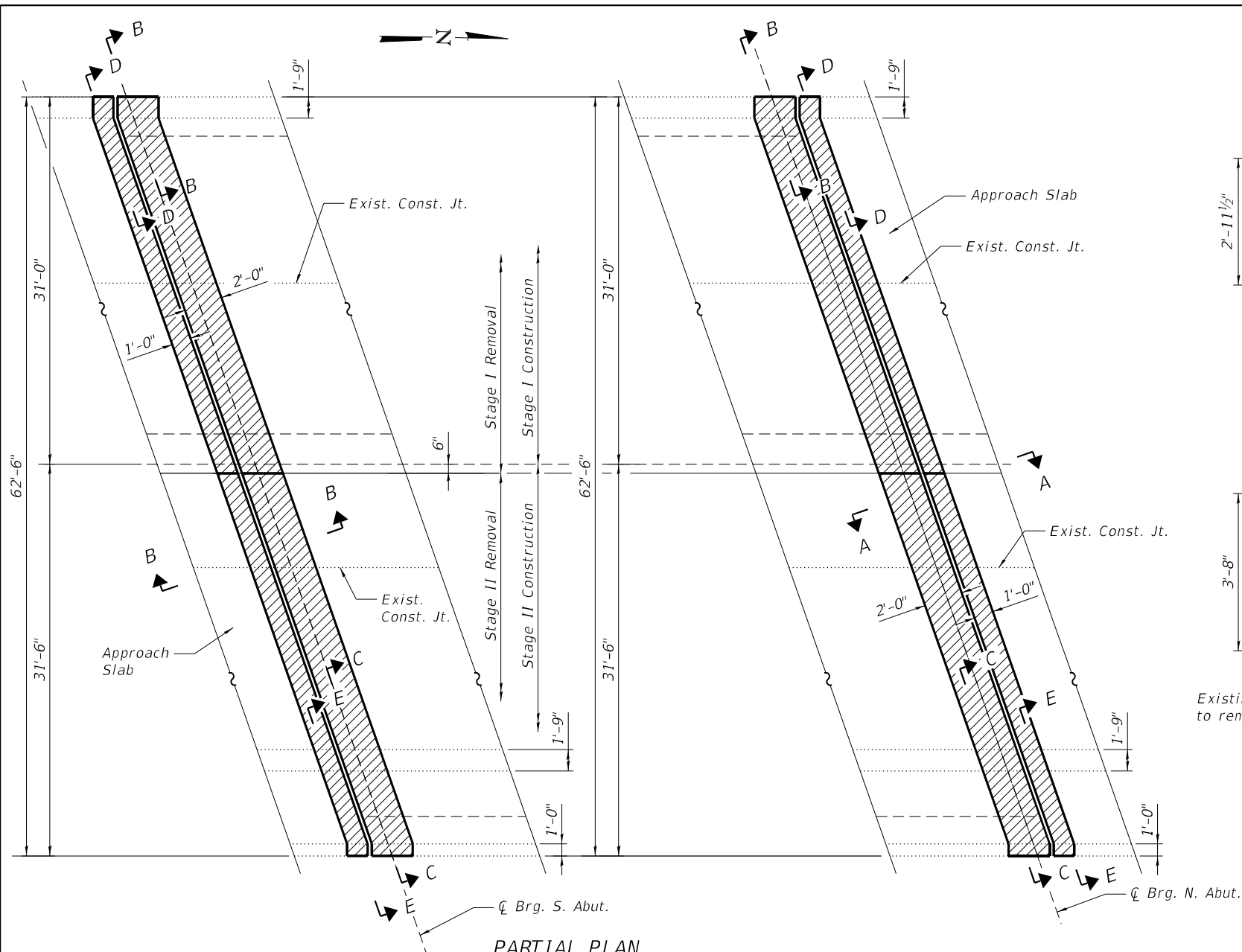
LEGEND

- Concrete Removal & Concrete Superstructure
- Structural Repair of Concrete (Depth Equal to or Less than 5 inches) - Roadway side of Parapet
- Structural Repair of Concrete (Depth Equal to or Less than 5 inches) - Back side of Parapet



BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	19.5



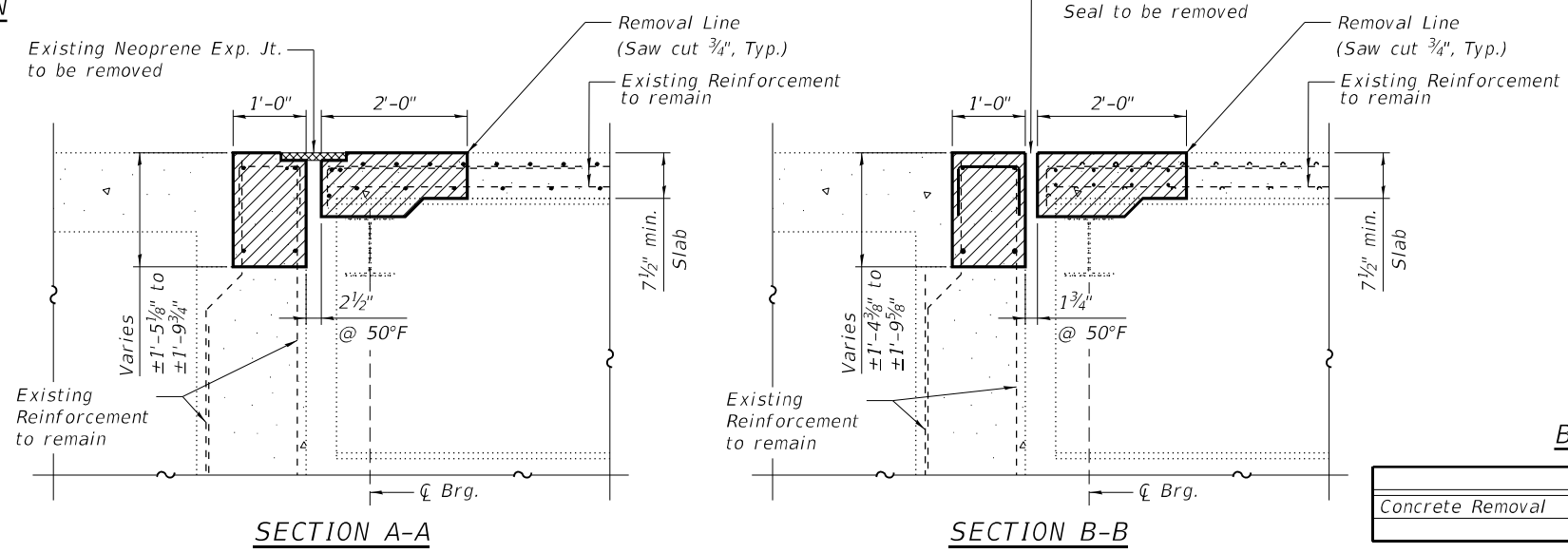
NOTES:

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 shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be reattached. The cost of this work shall be included in Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.



BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	13.2



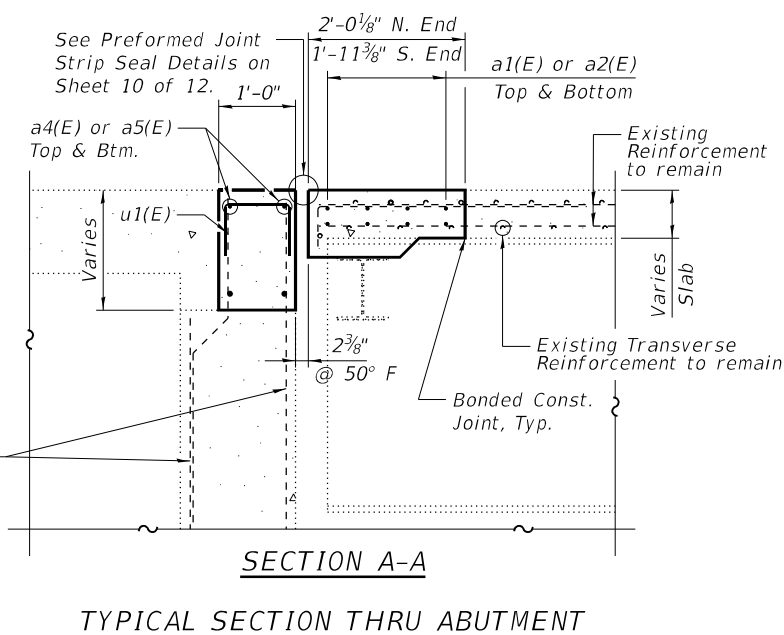
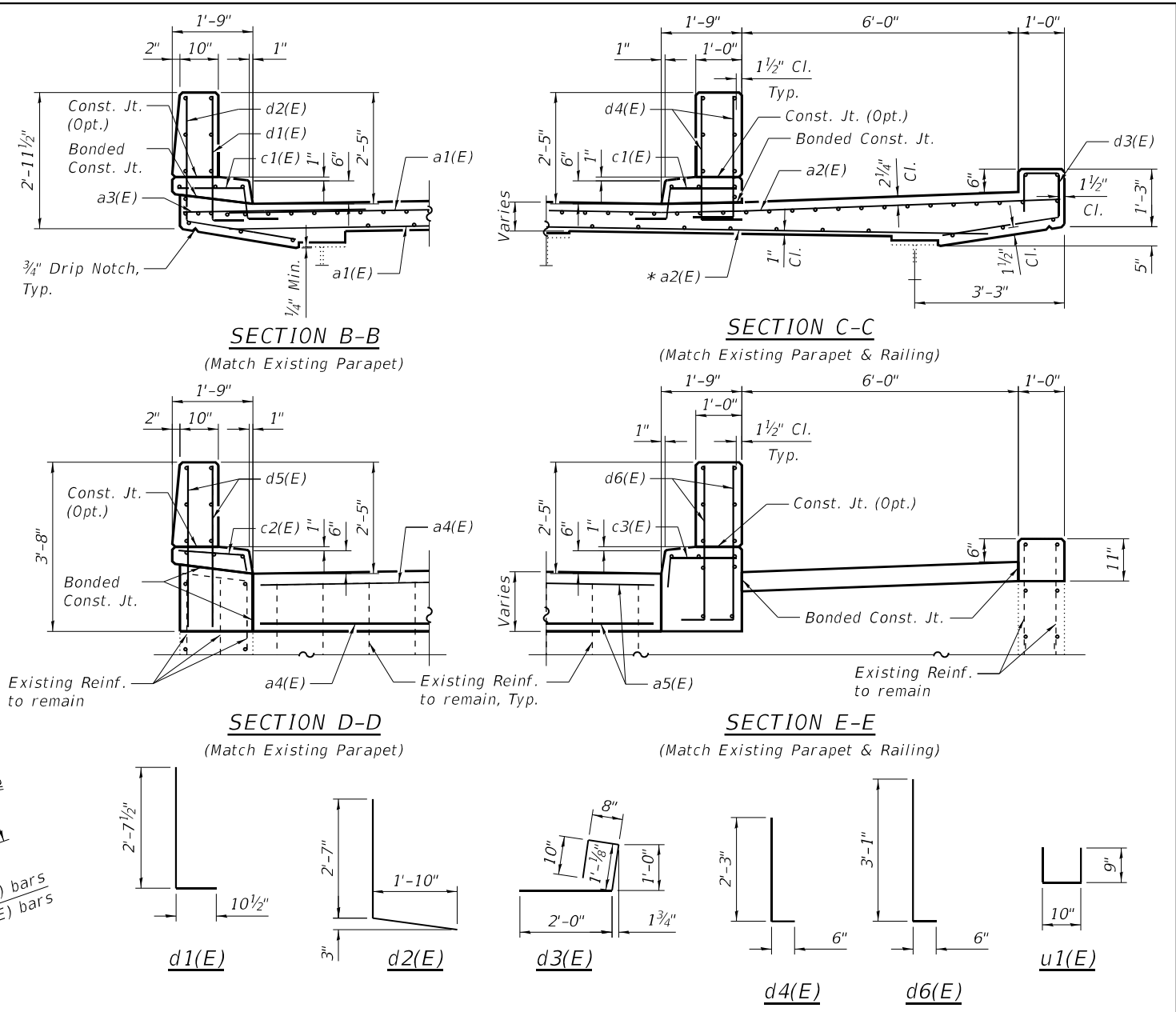
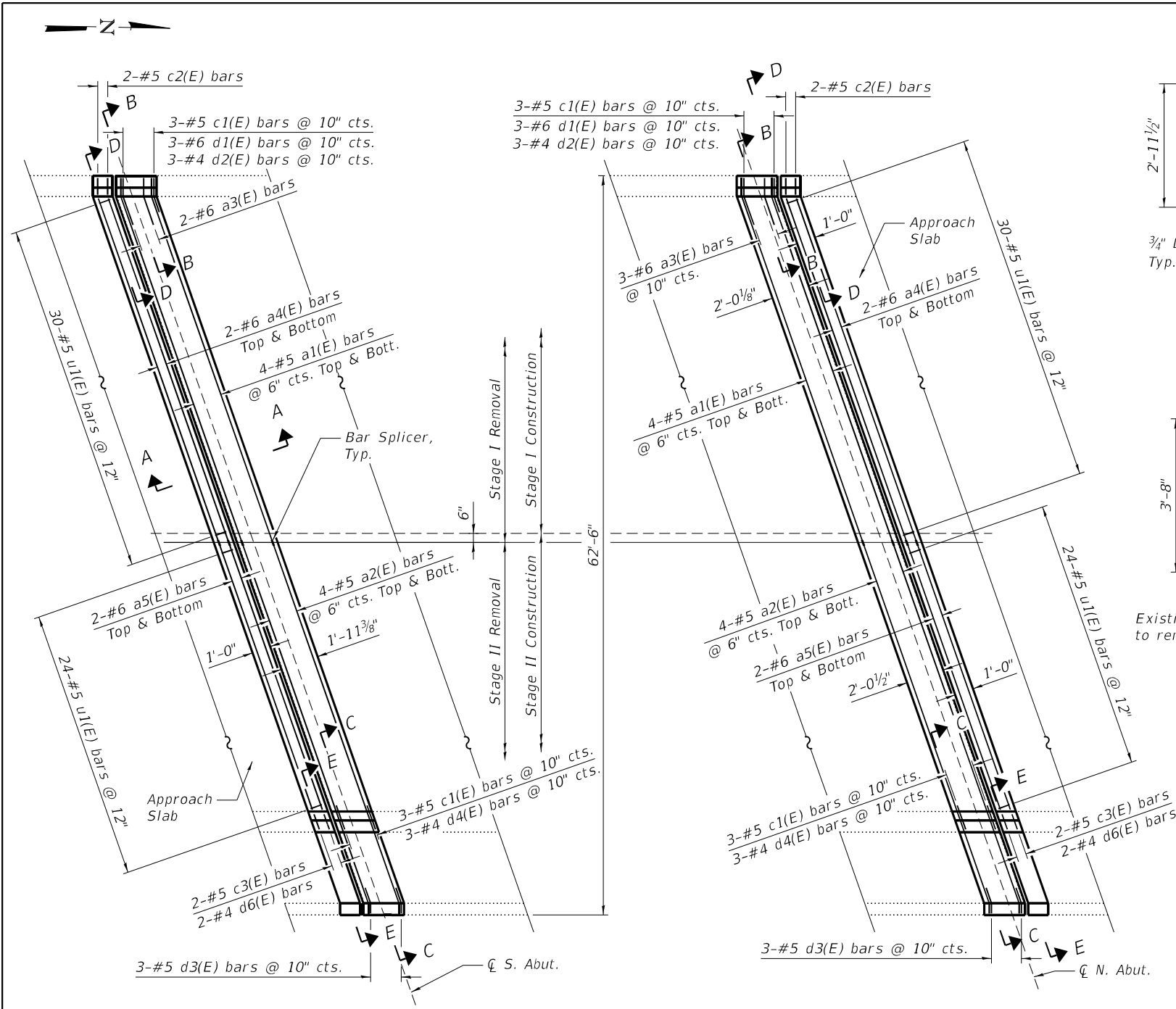
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DRAWN - MJH	REVISOR -	
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DATE = 5/7/2024	DATE - 12/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - CONCRETE REMOVAL DETAILS
STRUCTURE NO. 046-0111

SCALE: SHEET 7 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 40
		CONTRACT NO. 66N52		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	16	#5	28'-2"	
a2(E)	16	#5	35'-4"	
a3(E)	8	#6	4'-0"	
a4(E)	8	#6	26'-5"	
a5(E)	8	#6	26'-5"	
c1(E)	12	#5	2'-10"	
c2(E)	8	#5	2'-11"	
c3(E)	8	#5	2'-3"	
d1(E)	6	#6	3'-6"	
d2(E)	6	#4	4'-6"	
d3(E)	6	#5	4'-7"	
d4(E)	6	#4	2'-9"	
d5(E)	8	#5	2'-3"	
d6(E)	8	#4	3'-7"	
u1(E)	108	#5	2'-4"	
Reinforcement Bars, Epoxy Coated			Pound	2,220
Concrete Superstructure			Cu. Yd.	13.0

* Cut bars in the field to fit.

NOTES:

Reinforcement bars designated (E) shall be epoxy coated.

The parapet railing posts shall be temporarily removed and re-erected in the areas of parapet removal. Cost included with Concrete Superstructure. Any portion of railing that is damaged during construction shall be replaced at the Contractor's expense.



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WBE | DBE
EFFINGHAM, IL
LICENSE # 184.003222

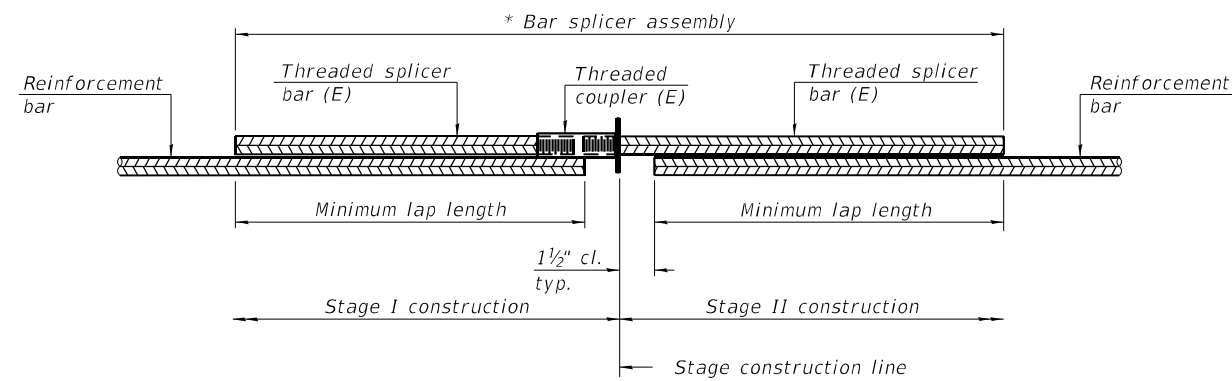
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PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
	DATE - 12/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - DECK REINFORCEMENT DETAILS
STRUCTURE NO. 046-0111

SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132-IL-1/17	6XBR	KANKAKEE	45	41
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



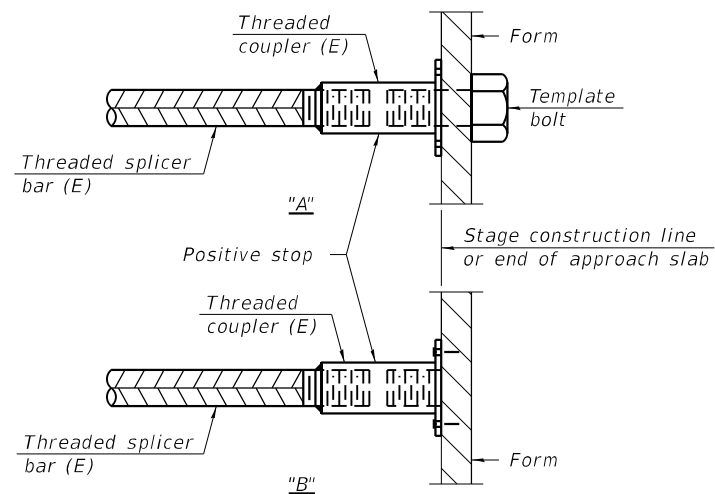
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck End	#5	16	3'-6"
Approach End	#6	8	4'-0"

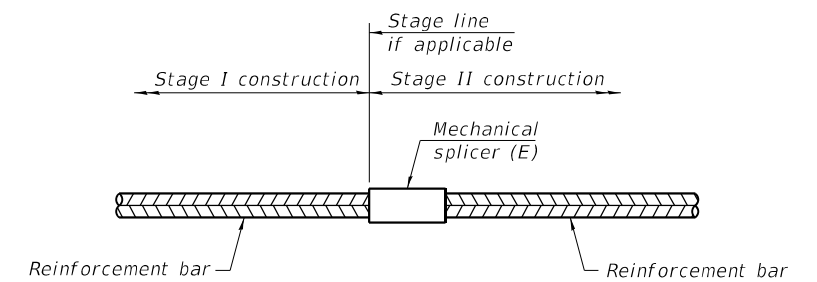


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-1-2023



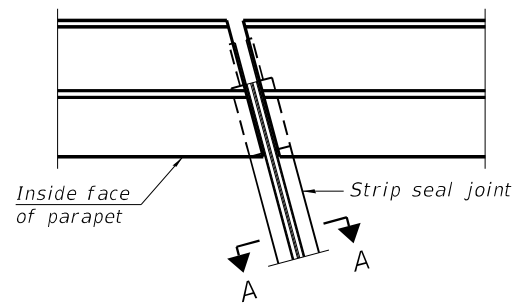
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PLOT DATE = 5/7/2024	DATE - 12/22/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

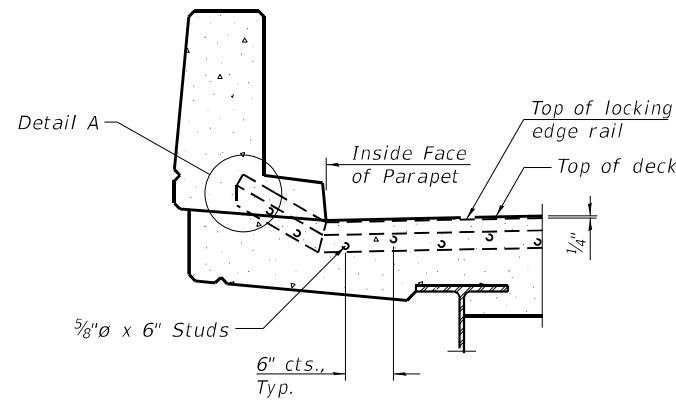
**BAR SPLICER ASSEMBLY AND MECH. SPLICER DETAILS
STRUCTURE NO. 046-0111**

SCALE: SHEET 9 OF 12 SHEETS STA. TO STA.

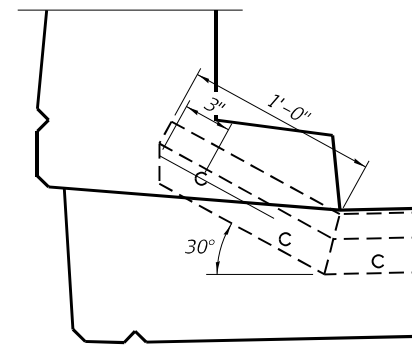
F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 42
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



PLAN AT PARAPET



ELEVATION AT PARAPET



DETAIL A

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 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 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

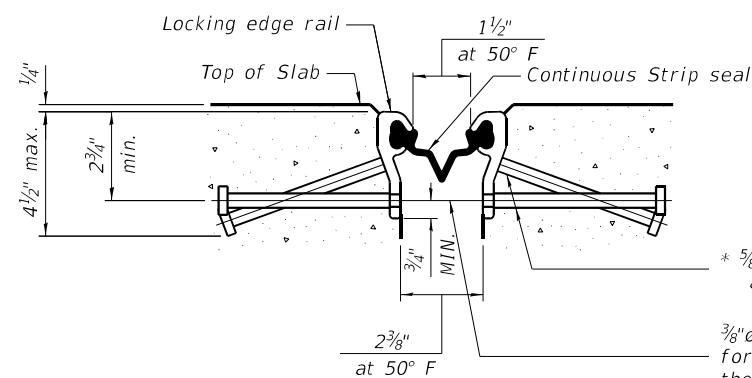
All steel components shall be galvanized after fabrication according to article 520.03 of the Standard Specifications.

The maximum space between locking edge rail segments shall be 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.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with preformed joint strip seal.

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.



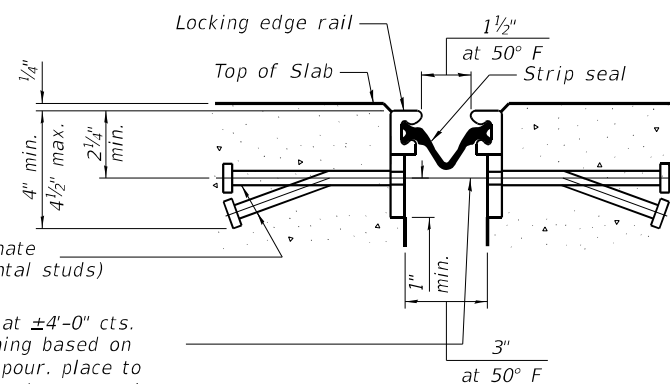
SHOWING ROLLED RAIL JOINT

* 5/8"Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

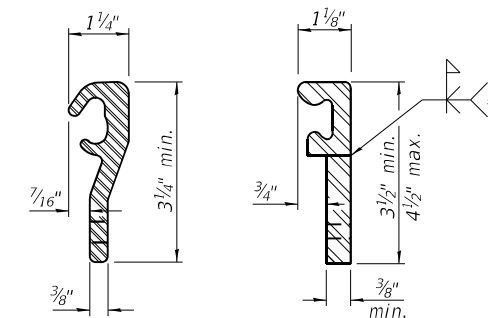
3/8"Ø threaded rods in 7/16"Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. place to miss studs. all rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



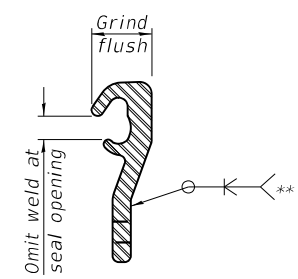
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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	136



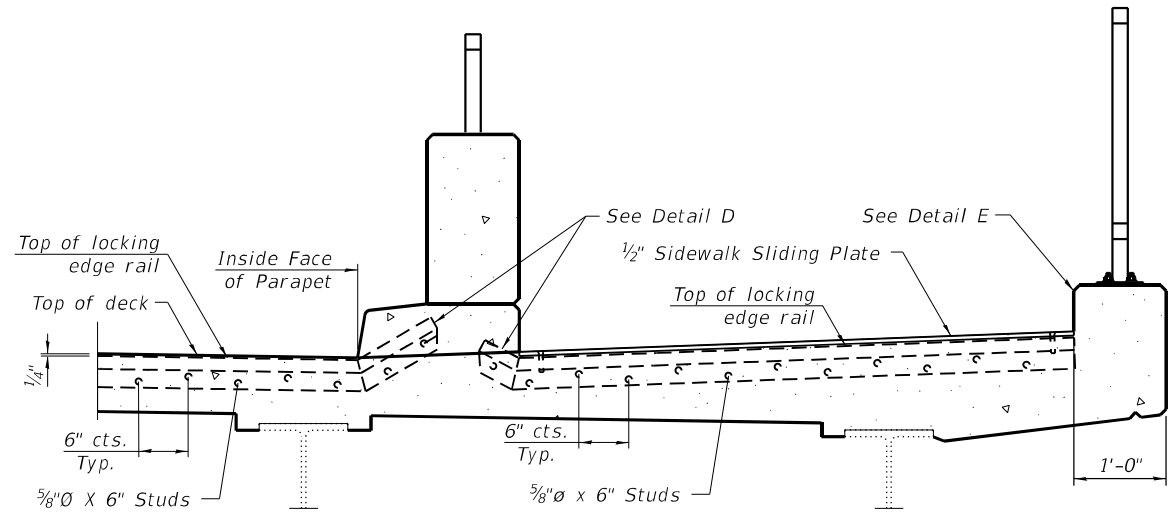
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

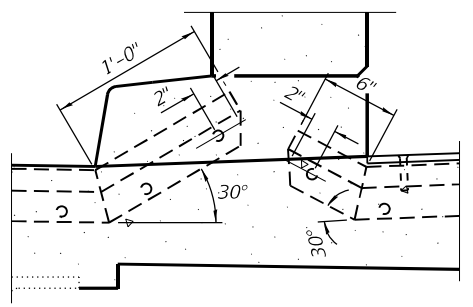
PREFORMED JOINT STRIP SEAL DETAILS AT WEST PARAPET STRUCTURE NO. 046-0111

SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.

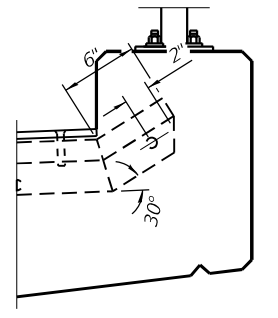
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132-IL-1/17	6XBR	KANKAKEE	45	43
CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	



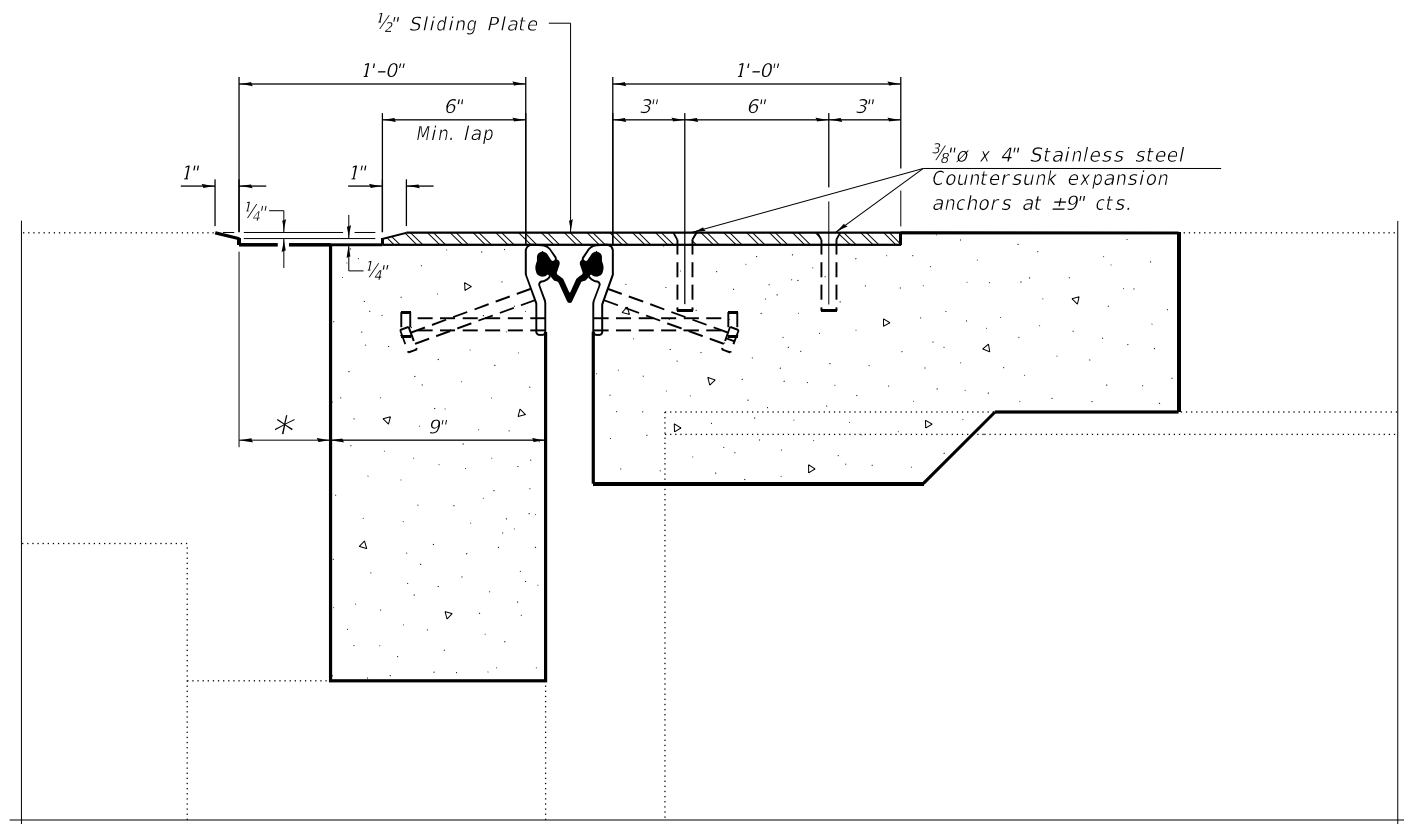
SECTION B-B
SECTION AT DECK LEVEL SIDEWALK



DETAIL D

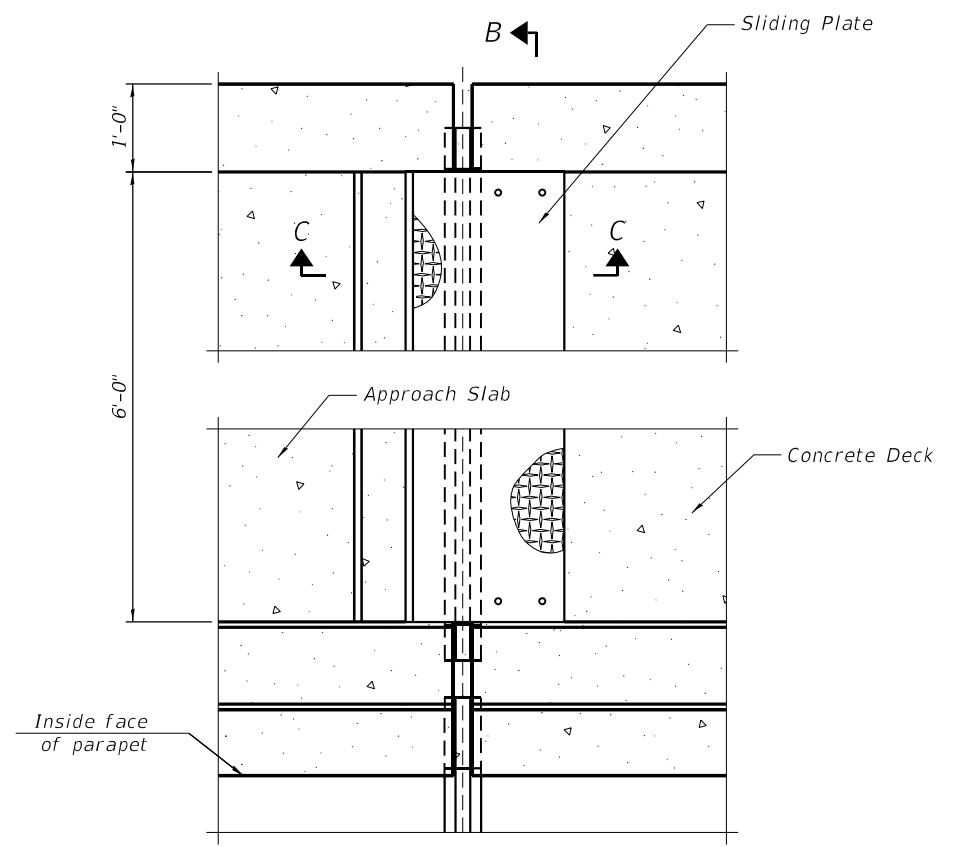


DETAIL E



SECTION C-C

*The approach slab shall be ground 1/2" to allow steel plate to slide at sidewalk only.
See Sheet 12 of 12 for details of Rail Joint.
The cost of the 1/2" sliding plate and accessories shall be included with the cost of Preformed Joint Strip Seal.



PLAN AT DECK LEVEL SIDEWALK



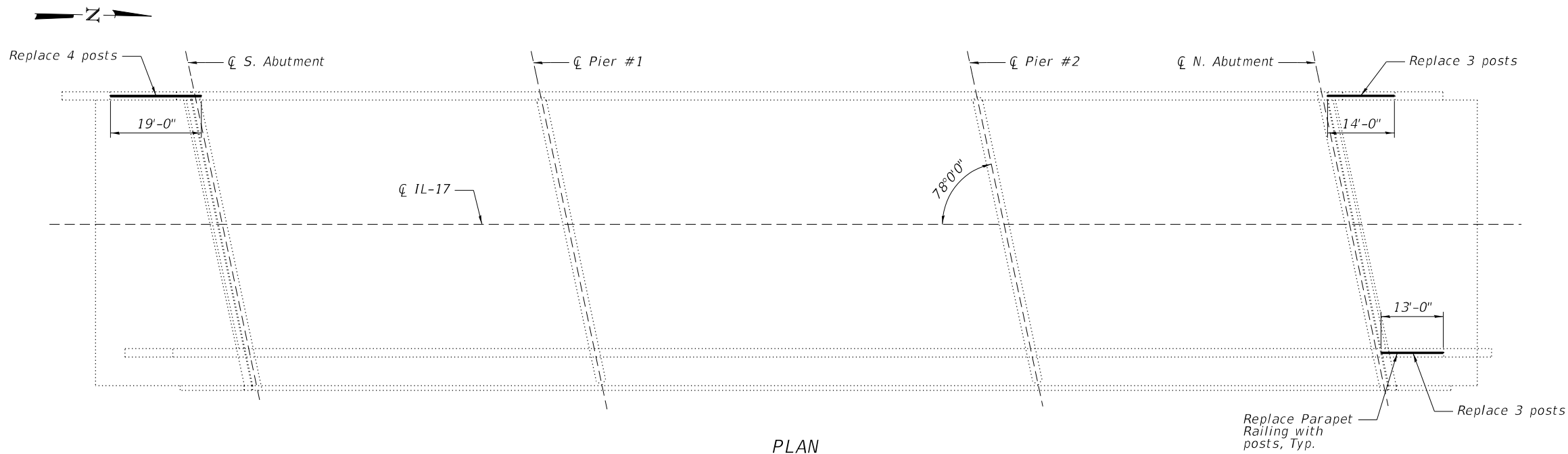
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PLOT DATE = 5/7/2024	CHECKED - JGS	REVISED -
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PREFORMED JOINT STRIP SEAL DETAILS AT EAST SIDEWALK
STRUCTURE NO. 046-0111

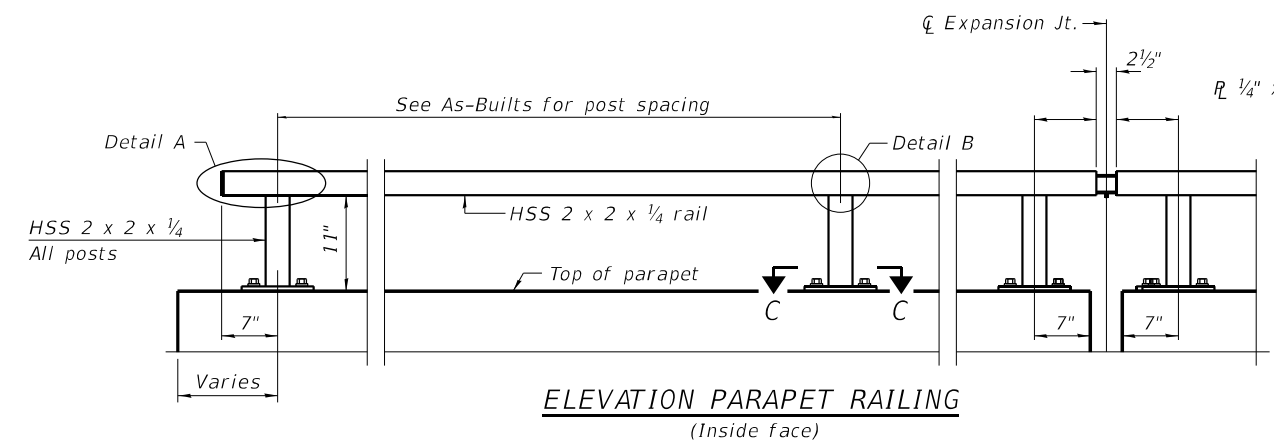
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CONTRACT NO. 66N52			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 11 OF 12 SHEETS STA. TO STA.

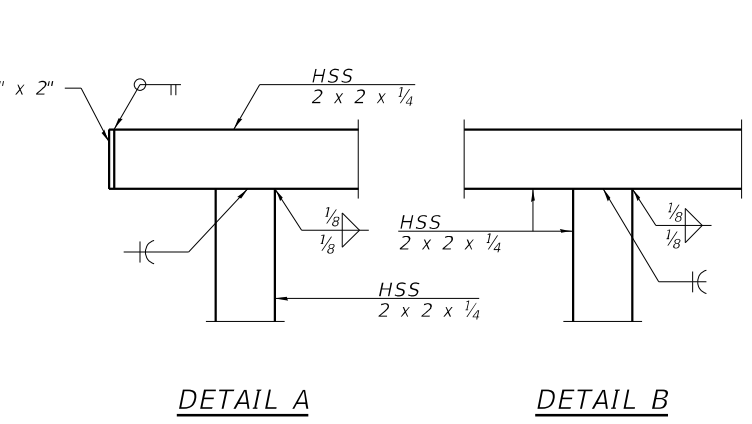


PLAN

Notes:
 Place reinforcement bars to miss anchor rod locations.
 All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 All HSS tubing used for the Parapet Railing shall be ASTM A500 Grade C.
 All base plates used for the Parapet Railing shall be AASHTO M270 Grade 50.
 All heavy hex nuts shall be according to ASTM A 563 Grade DH.
 All fully threaded anchor rods shall be ASTM F1554 Grade 105.
 The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.
 Rail splice inserts may be built out of bent plates of 3/8" thicknesses and outside geometry limits as the bar stock insert shown.
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.
 See sheet 8 of 12 for dimensions of concrete openings at expansion joints.

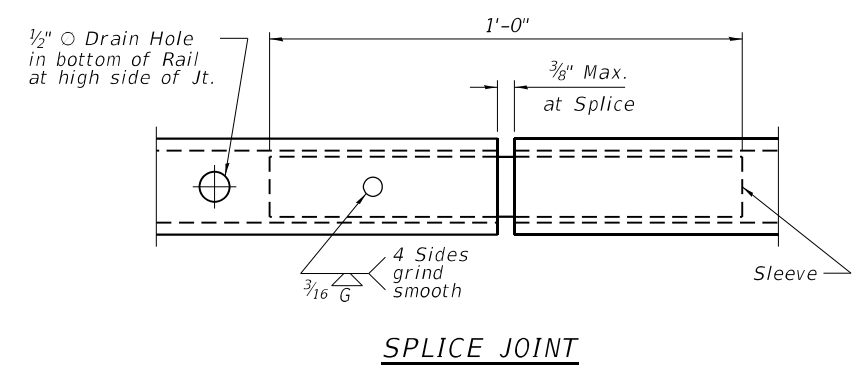


ELEVATION PARAPET RAILING
(Inside face)

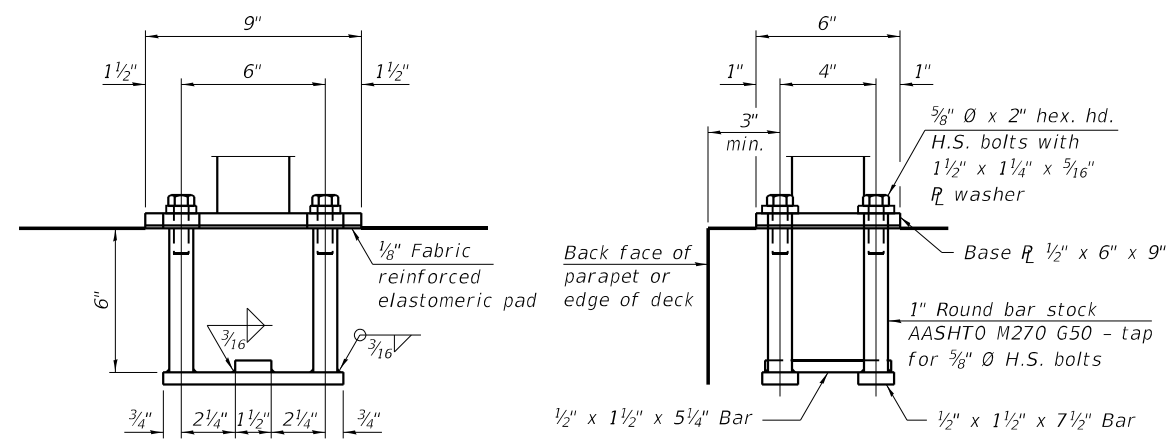


DETAIL A

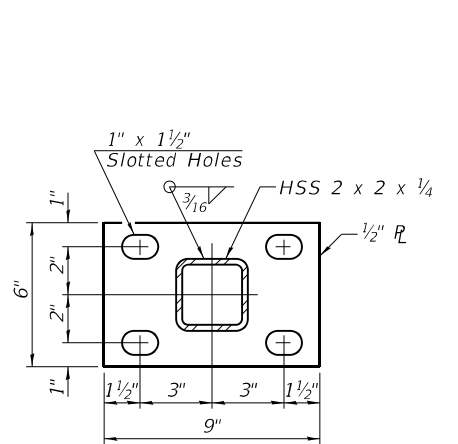
DETAIL B



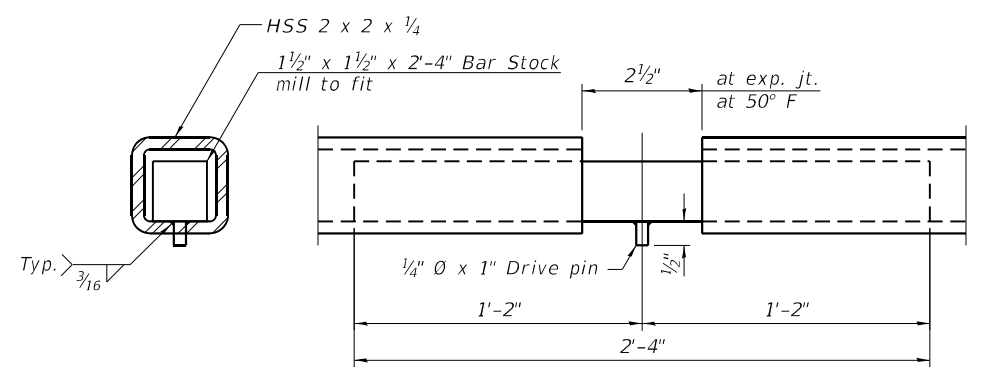
SPLICE JOINT



ANCHORAGE ASSEMBLY



SECTION C-C



EXPANSION SPLICE

T = ≤ 4"; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Total
Parapet Railing	Foot	46

The Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" diameter fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



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BRIDGE PARAPET RAILING
STRUCTURE NO. 046-0111

SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 132-IL-1/17	SECTION 6XBR	COUNTY KANKAKEE	TOTAL SHEETS 45	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66N52	