

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	1
		ILLINOIS	CONTRACT NO. 68H63	

**INDEX OF SHEETS**

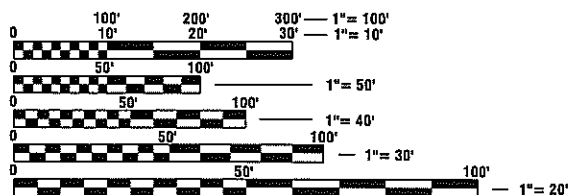
- 1 COVER SHEET
- 2-4 SUMMARY OF QUANTITIES
- 5 SCHEDULE OF QUANTITIES
- 6 ALIGNMENT
- 7 TYPICAL SECTIONS
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- 11-13 TRAFFIC CONTROL AND PROTECTION - STAGE 2
- 14-16 TRAFFIC CONTROL AND PROTECTION - STAGE 3
- 17-29 BRIDGE REPAIR PLANS

**ILLINOIS HIGHWAY STANDARDS**

- 000001-08
- 606001-08
- 606301-04
- 701901-08
- 704001-08
- 782006-01

**FUNCTIONAL CLASSIFICATION**

IL 29: FREEWAY  
 ADT: 4,750 (2021)  
 SU: 175  
 MU: 275



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: MARK ECKHOFF (309)671-4463  
 PROJECT MANAGER: BEN TELLEFSON (309)671-4477

**CONTRACT NO. 68H63**

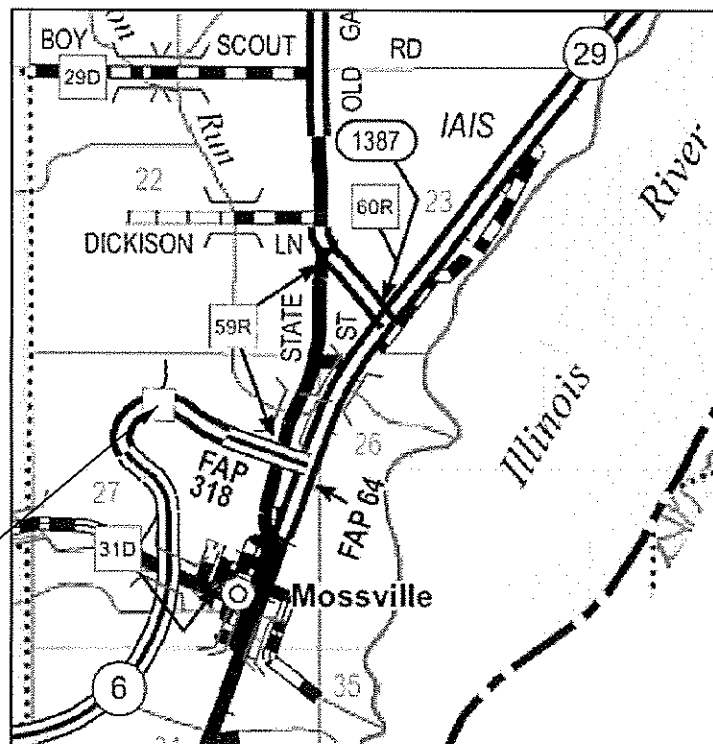
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
 HIGHWAY PLANS**

FAP ROUTE 318 (IL 6)  
**SECTION (72-6HB-1)BJR, BRR  
 PROJECT  
 CONTRACT MAINTENANCE  
 PEORIA COUNTY**

C-94-059-23

R-8E



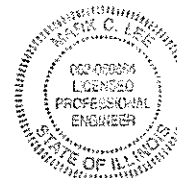
LOCATION  
 SN 072-0149

**LOCATION MAP**

GROSS LENGTH = 0.28 MILES  
 NET LENGTH = 0.28 MILES

PLANS PREPARED BY:  
**KLINGNER  
 & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 www.klingner.com

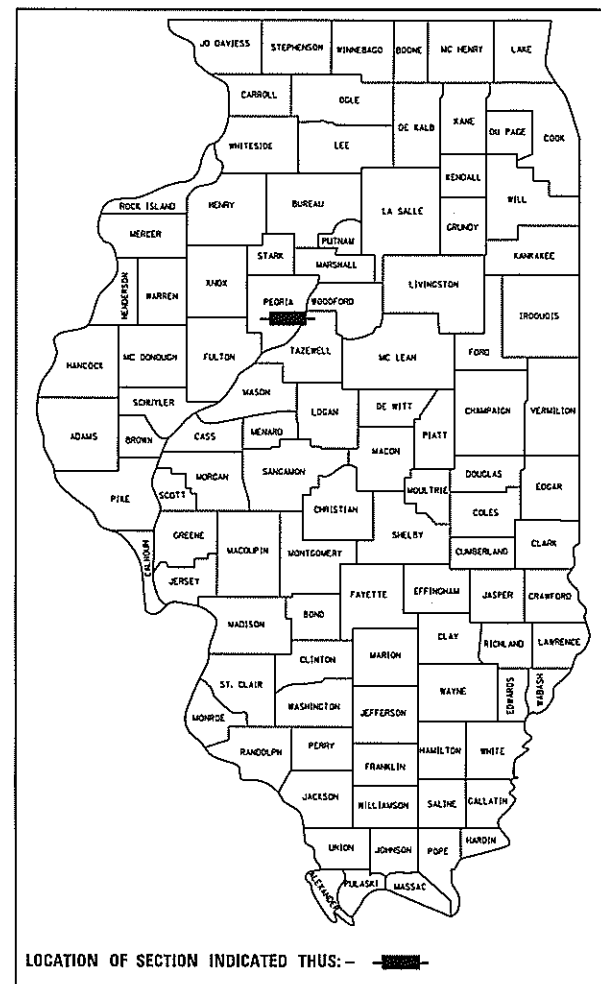
Quincy, Illinois  
 618 North 24th Street  
 217.223.3470  
 STATE OF ILLINOIS DESIGN FIRM # 1942738



*Mark Lee*  
 MARK C. LEE  
 DATE 3-2-23

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF ILLINOIS NO. 062-060864  
 LICENSE EXPIRES NOVEMBER 30, 2023

D-94-040-23



DESCRIPTION:  
 BRIDGE REPAIRS OF SN 072-0149 ON IL RTE 29  
 OVER IL RTE 6 IN PEORIA COUNTY

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 10 2023  
Kensil K. Barnett  
 REGIONAL ENGINEER

\_\_\_\_\_  
 ENGINEER OF DESIGN AND ENVIRONMENT

\_\_\_\_\_  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				PEORIA COUNTY					
				100% STATE ROADWAY					
				0013 RURAL					
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	202	202					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1645	1645					
50102400	CONCRETE REMOVAL	CU YD	15.6	15.6					
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15.9	15.9					
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	842	842					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2470	2470					
50800515	BAR SPLICERS	EACH	22	22					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	130	130					
52100520	ANCHOR BOLTS, 1"	EACH	72	72					

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers - Architects - Surveyors  
 Galesburg, Illinois  
49 North Prairie Street, Galesburg, IL 62541

USER NAME = aschafer	DESIGNED - AMS	REVISED -
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PLOT DATE = 3/1/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET 1 OF 3 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	2
CONTRACT NO. 68H63			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				PEORIA COUNTY							
				100% STATE ROADWAY							
				0013 RURAL							
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1							
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	251	251							
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	12.8	12.8							
Z0024475	TUBULAR MARKER	EACH	38	38							
Z0062456	TEMPORARY PAVEMENT	SQ YD	1132	1132							

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**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
Galesburg, Illinois  
49 North Prairie Street  
304-344

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE	SHEET 3 OF 3 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H63	

TUBULAR MARKERS

Z0024475

STATION TO	STATION	SIDE	EACH
POST STAGE 2			
20+82.0	25+16.6	MEDIAN	20
30+21.5	34+09.0	MEDIAN	18
TOTAL			38

TRAFFIC CONTROL AND PROTECTION

LOCATION		X7010216	70400100	70400200	70600250	70600350	78200006
IL RTE. 29 SPUR.		TC&P (SPECIAL)	TEMP CONCRETE BARRIER	RELOCATE TEMP CONC BARRIER	IMPACT ATTENUATORS TEMP NON-RED, TL3	IMPACT ATTN RELOCATE NON-RED, TL3	GUARDRAIL REFLECTORS, TYPE B
TRAFFIC CONTROL STAGE	FEATURE CROSSED	L SUM	FOOT	FOOT	EACH	EACH	EACH
STAGE 1	F.A. 405 / IL RTE. 6		1425.0		1		19
STAGE 2	F.A. 405 / IL RTE. 6			937.5	1	1	10
TOTALS		1	1425.0	937.5	2	1	29

SUBBASE GRANULAR MATERIAL, TYPE B

31101000

STATION TO STATION	SIDE	TON	
STAGE 2 CROSSOVER			
20+82.0	21+95.7	MEDIAN	33.2
21+95.7	25+16.6	MEDIAN	76.1
30+21.5	34+09.0	MEDIAN	91.8
TOTAL		201.1	
USE		202	

\* AGGREGATE RATE OF APPLICATION = 1.60 TON / CU YD

TEMPORARY PAVEMENT

Z0062456

STATION TO STATION	SIDE	WIDTH	SQ YD
IL RTE. 29 SPUR.			
20+82.0	21+95.7	MEDIAN	14.8
21+95.7	25+16.6	MEDIAN	12.0
30+21.5	34+09.0	MEDIAN	12.0
TOTAL			1131.4
USE			1132

TEMPORARY PAVEMENT MARKING

70300150 70300221

IL RTE. 29 SPUR.				SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING LINE 4" PAINT
STATION TO STATION	SIDE	DESCRIPTION	SQ FT	FOOT	
19+75.00	34+59.00	RT	494.7	1484.0	
20+82.00	34+09.00	LT & RT	810.8	2432.4	
TOTALS			1305.5	3916.4	
USE			1306	3916	

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

CONCRETE MEDIAN SURFACE REMOVAL

X4402020

STATION TO STATION	SIDE	WIDTH	SQ FT
IL RTE. 29 SPUR.			
20+82.0	21+95.7	MEDIAN	11.6
21+95.7	25+16.6	MEDIAN	8.8
30+21.5	34+09.0	MEDIAN	8.8
TOTAL			7573.3
USE			7574

REMOVE FRAME AND GRATES (SPECIAL)

X6050500

STATION	SIDE	OFFSET	EACH
IL RTE. 29 SPUR.			
23+35.9	LT	17.8	1
TOTAL			1

OFFSET FROM OUTSIDE EOP OF RAMP D

PAINT PAVEMENT MARKINGS

78001110

STATION TO STATION	SIDE	DESCRIPTION	PAINT PAVEMENT MARKING - 4" FOOT
IL RTE. 29 SPUR.			
20+82.00	34+09.00	MEDIAN EDGE - RAMP C	YELLOW SOLID EDGE LINE
20+82.00	34+09.00	MEDIAN EDGE - RAMP D	YELLOW SOLID EDGE LINE
24+55.60	30+25.00	EOP - RAMP C	WHITE SOLID EDGE LINE
TOTAL			3223.4
USE			3224

PAVEMENT MARKING REMOVAL - WATER BLASTING

78300202

STATION TO STATION	SIDE	DESCRIPTION	SQ FT
IL RTE. 29 SPUR.			
20+82.00	22+56.00	MEDIAN EDGE - RAMP D	YELLOW SOLID EDGE LINE
22+56.00	23+98.00	MEDIAN EDGE - RAMP C	YELLOW SOLID EDGE LINE
24+55.60	29+25.00	EOP - RAMP C	WHITE SOLID EDGE LINE
31+00.00	32+60.00	MEDIAN EDGE - RAMP C	YELLOW SOLID EDGE LINE
32+60.00	34+09.00	MEDIAN EDGE - RAMP D	YELLOW SOLID EDGE LINE
TOTAL			398.1
USE			399

COMBINATION CURB AND GUTTER REMOVAL

44000500

STATION TO STATION	SIDE OF MEDIAN	FOOT	
IL RTE. 29 SPUR.			
20+82.0	25+16.6	LT	434.6
20+82.0	25+16.6	RT	434.6
30+21.5	34+09.0	LT	387.5
30+21.5	34+09.0	RT	387.5
TOTAL		1644.2	
USE		1645	

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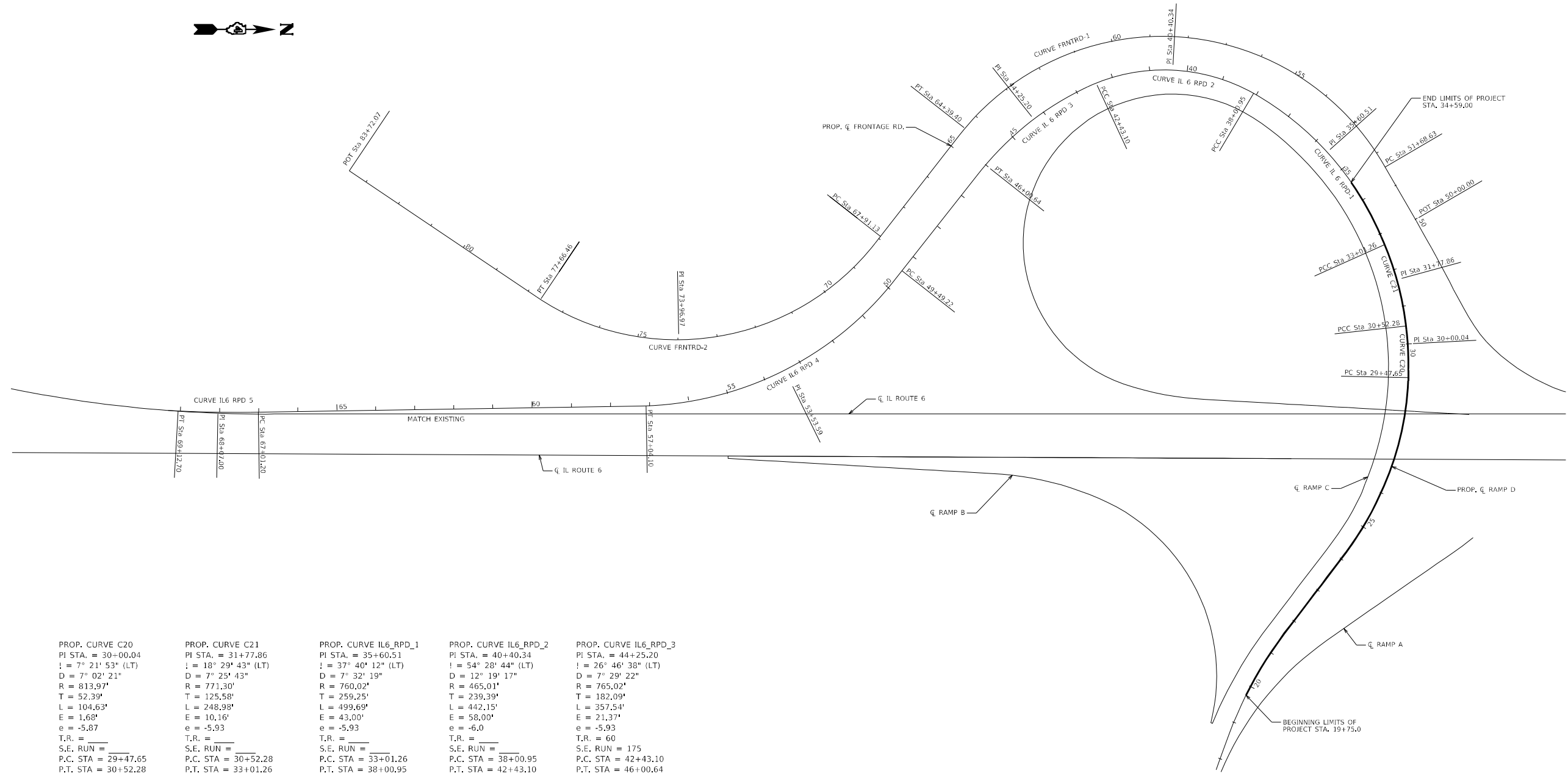
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	5

CONTRACT NO. 68H63  
 ILLINOIS FED. AID PROJECT



<p>PROP. CURVE C20          PI STA. = 30+00.04          I = 7° 21' 53" (LT)          D = 7° 02' 21"          R = 813.97'          T = 52.39'          L = 104.63'          E = 1.68'          e = -5.87          T.R. = _____          S.E. RUN = _____          P.C. STA = 29+47.65          P.T. STA = 30+52.28</p>	<p>PROP. CURVE C21          PI STA. = 31+77.86          I = 18° 29' 43" (LT)          D = 7° 25' 43"          R = 771.30'          T = 125.58'          L = 248.98'          E = 10.16'          e = -5.93          T.R. = _____          S.E. RUN = _____          P.C. STA = 30+52.28          P.T. STA = 33+01.26</p>	<p>PROP. CURVE IL6_RPD_1          PI STA. = 35+60.51          I = 37° 40' 12" (LT)          D = 7° 32' 19"          R = 760.02'          T = 259.25'          L = 499.69'          E = 43.00'          e = -5.93          T.R. = _____          S.E. RUN = _____          P.C. STA = 33+01.26          P.T. STA = 38+00.95</p>	<p>PROP. CURVE IL6_RPD_2          PI STA. = 40+40.34          I = 54° 28' 44" (LT)          D = 12° 19' 17"          R = 465.01'          T = 239.39'          L = 442.15'          E = 58.00'          e = -6.0          T.R. = _____          S.E. RUN = _____          P.C. STA = 38+00.95          P.T. STA = 42+43.10</p>	<p>PROP. CURVE IL6_RPD_3          PI STA. = 44+25.20          I = 26° 46' 38" (LT)          D = 7° 29' 22"          R = 765.02'          T = 182.09'          L = 357.54'          E = 21.37'          e = -5.93          T.R. = 60          S.E. RUN = 175          P.C. STA = 42+43.10          P.T. STA = 46+00.64</p>
<p>PROP. CURVE IL6_RPD_4          PI STA. = 53+53.59          I = 50° 52' 56" (RT)          D = 6° 44' 26"          R = 850.03'          T = 404.37'          L = 754.88'          E = 91.28'          e = 5.8          T.R. = _____          S.E. RUN = 120          P.C. STA = 49+49.22          P.T. STA = 57+04.10</p>	<p>PROP. CURVE IL6_RPD_5          PI STA. = 68+07.00          I = 4° 10' 42" (RT)          D = 1° 58' 32"          R = 2900.09'          T = 105.79'          L = 211.50'          E = 1.93'          e = 2.98          T.R. = _____          S.E. RUN = _____          P.C. STA = 67+01.20          P.T. STA = 69+12.70</p>	<p>PROP. CURVE FRNTRD-1          PI STA. = 61+32.57          I = 112° 00' 53" (LT)          D = 8° 48' 53"          R = 650.00'          T = 963.94'          L = 1270.77'          E = 512.61'          e = _____          T.R. = _____          S.E. RUN = _____          P.C. STA = 51+68.63          P.T. STA = 64+39.40</p>	<p>PROP. CURVE FRNTRD-2          PI STA. = 73+96.97          I = 85° 58' 20" (RT)          D = 8° 48' 53"          R = 650.00'          T = 605.84'          L = 975.33'          E = 238.56'          e = _____          T.R. = _____          S.E. RUN = _____          P.C. STA = 67+91.13          P.T. STA = 77+66.46</p>	

INFORMATION ONLY

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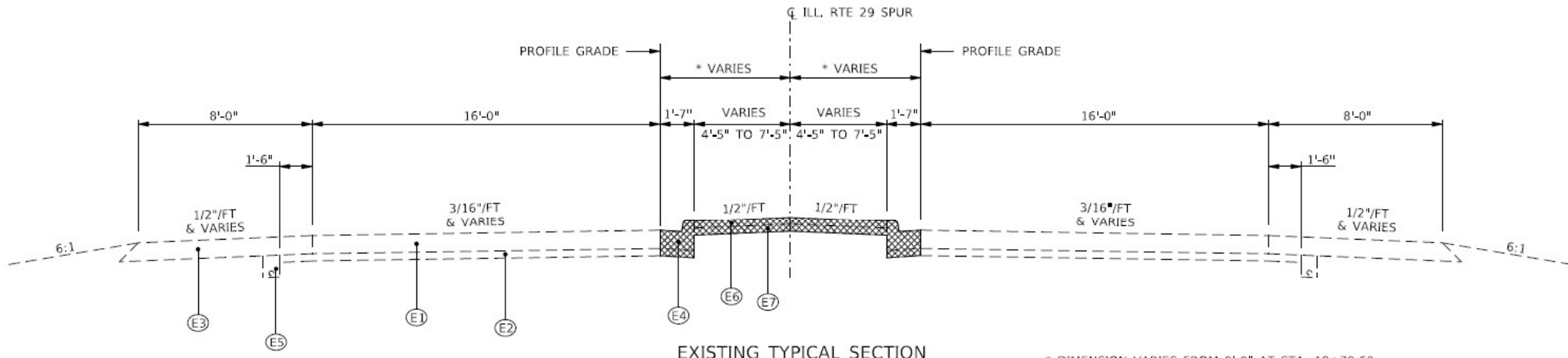


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PLOT DATE = 3/1/2023	CHECKED - EBB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET 1 OF 1 SHEETS		STA.	TO STA.
<b>ALIGNMENT</b>					

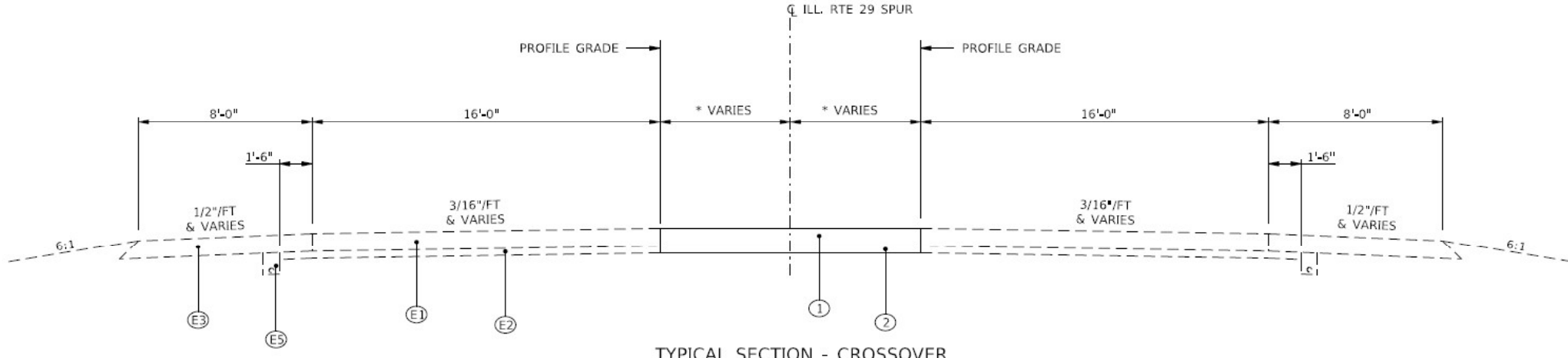
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	6
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION**

STA. 20+82.00 TO 25+16.55  
STA. 30+21.54 TO 34+09.00

\* DIMENSION VARIES FROM 9'-0" AT STA. 18+79.69  
TO 6'-0" AT STA. 21+95.71



**TYPICAL SECTION - CROSSOVER**

STA. 20+82.00 TO 25+16.55  
STA. 30+21.54 TO 34+09.00

\* DIMENSION VARIES FROM 9'-0" AT STA. 18+79.69  
TO 6'-0" AT STA. 21+95.71

**LEGEND**

- ⓔ1 EXISTING REINFORCED P.C.C. PAVEMENT, 10"
- ⓔ2 EXISTING STABILIZED SUB-BASE, 4"
- ⓔ3 EXISTING HMA SHOULDER, 10"
- ⓔ4 EXISTING CONCRETE CURB AND GUTTER, TYPE B-6,12
- ⓔ5 EXISTING SUB-SURFACE DRAINS
- ⓔ6 EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⓔ7 EXISTING AGGREGATE BASE COURSE, 4"
- ① PROPOSED TEMPORARY PAVEMENT, 10"  
(TO BE REMOVED AFTER STAGE II)
- ② PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"

▨ ITEM TO BE REMOVED

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**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
Chattanooga, Illinois  
www.klingner.com

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>		
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 318	SECTION (72-6H8-1)B/R.BRR	COUNTY PEORIA	TOTAL SHEETS 29	SHEET NO. 7
ILLINOIS FED. AID PROJECT CONTRACT NO. 68H63				

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 1:

- INSTALL TEMPORARY CONCRETE BARRIER AND GUARDRAIL AND BARRIER WALL REFLECTORS.
- INSTALL TEMPORARY PAVEMENT MARKING
- REMOVE THE EXISTING CONCRETE MEDIAN SURFACE AND COMBINED CONCRETE CURB AND GUTTERS.

INSTALL TEMPORARY PAVEMENT FOR CROSSEOVERS.

- ALL WORK WILL BE ON THE SOUTH SIDE OF THE STRUCTURE.
- REMOVE CONCRETE DECK AND MEDIAN TO INSTALL NEW EXPANSION JOINTS.
- INSTALL SIDE RETAINERS AT ABUTMENT BEARINGS.
- COMPLETE BRIDGE DECK PATCHING

SET UP STAGE 2 TRAFFIC CONTROL.

GENERAL NOTES

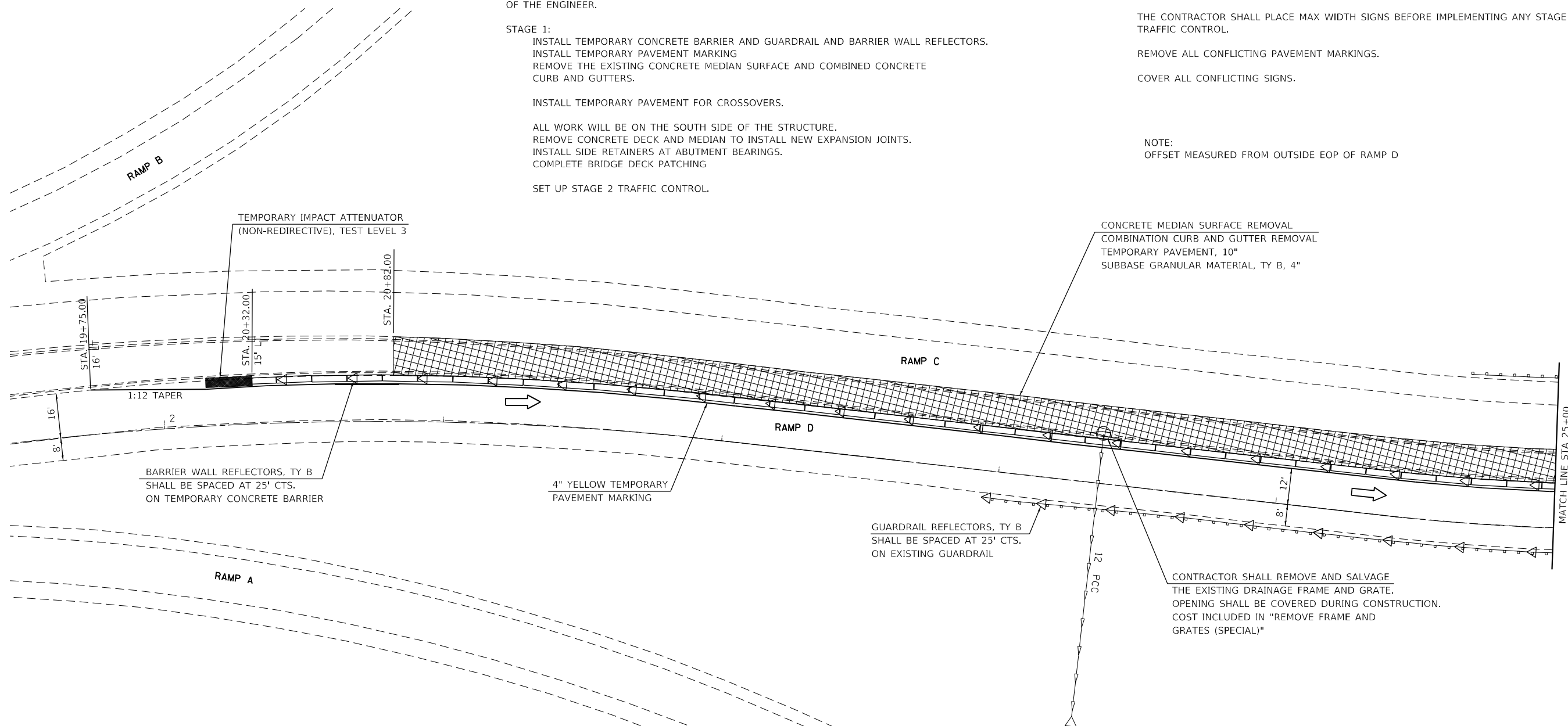
DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

COVER ALL CONFLICTING SIGNS.

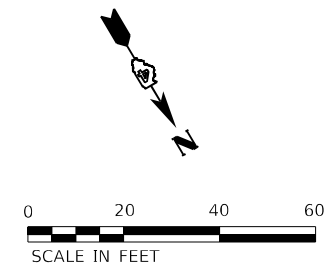
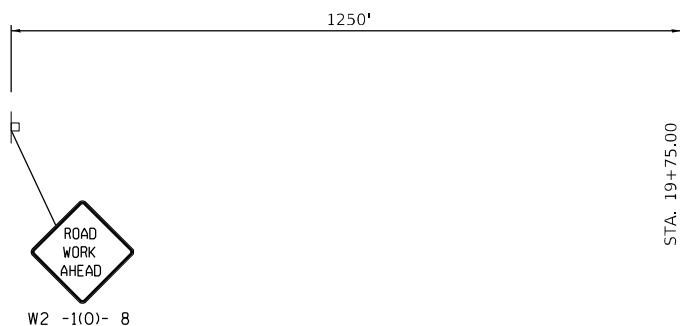
NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D



**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE W/FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- BARRIER WALL REFLECTORS
- CONCRETE MEDIAN SURFACE REMOVAL COMBINATION CURB AND GUTTER REMOVAL

**ADVANCE SIGNAGE**



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**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
Galesburg, Illinois

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DATE -	REVISD -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN STAGE 1**

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 19+50.00 TO STA. 25+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)B/R,BRR	PEORIA	29	8
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				



**STAGE CONSTRUCTION SEQUENCE**

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INSTALL TEMPORARY PAVEMENT FOR CROSSOVERS.

- ALL WORK WILL BE ON THE SOUTH SIDE OF THE STRUCTURE.
- REMOVE CONCRETE DECK AND MEDIAN TO INSTALL NEW EXPANSION JOINTS.
- INSTALL SIDE RETAINERS AT ABUTMENT BEARINGS.
- COMPLETE BRIDGE DECK PATCHING

SET UP STAGE 2 TRAFFIC CONTROL.

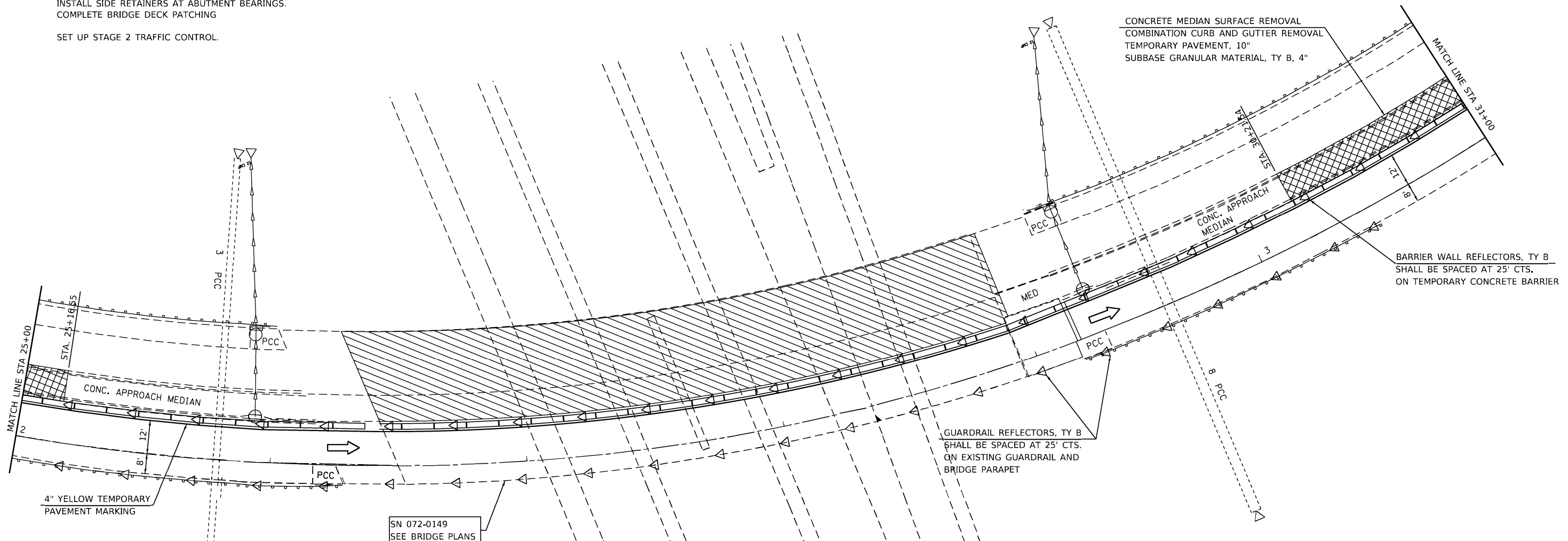
**GENERAL NOTES**

DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

COVER ALL CONFLICTING SIGNS.



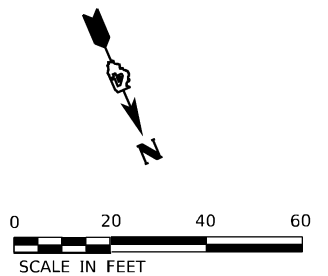
**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE W/FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- BARRIER WALL REFLECTORS
- CONCRETE MEDIAN SURFACE REMOVAL COMBINATION CURB AND GUTTER REMOVAL

NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D

= TREE REMOVAL

SN 072-0149  
SEE BRIDGE PLANS



MODEL: Default; FILE: Main; C:\1\files\213081\_IDOT - DIST - 4 - PTB 201-0323\Work\_Order\_09 - FY 2023\_Structures\Transportation\SN 072-0149\CADD\_Sheets\st-Traffic\_Control\_Stage\_1.dgn

**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
Galesburg, Illinois

USER NAME = aschafer	DESIGNED - AMS	REVISED -
DRAWN - AMS	REVISED -	
PLOT SCALE = 40.0000" / in.	CHECKED - EBB	REVISED -
PLOT DATE = 3/1/2023	DATE -	REVISED -









**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STAGE CONSTRUCTION PLAN STAGE 1</b>			
SCALE: 1"=20'	SHEET 2	OF 3 SHEETS	STA. 25+00.00 TO STA. 31+00.00

F.A.P. RTE. 318	SECTION (72-6HB-1)BJR,BRR	COUNTY PEORIA	TOTAL SHEETS 29	SHEET NO. 9
ILLINOIS				FED. AID PROJECT

CONTRACT NO. 68H63

**LEGEND**

-  DIRECTION OF TRAFFIC
-  TYPE III BARRICADE W/FLASHING LIGHTS
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
-  TEMPORARY IMPACT ATTENUATOR
-  WORK ZONE
-  BARRIER WALL REFLECTORS
-  CONCRETE MEDIAN SURFACE REMOVAL  
COMBINATION CURB AND GUTTER REMOVAL

NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D

 = TREE REMOVAL

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 1:**

- INSTALL TEMPORARY CONCRETE BARRIER AND GUARDRAIL AND BARRIER WALL REFLECTORS.
- INSTALL TEMPORARY PAVEMENT MARKING
- REMOVE THE EXISTING CONCRETE MEDIAN SURFACE AND COMBINED CONCRETE CURB AND GUTTERS.

INSTALL TEMPORARY PAVEMENT FOR CROSSOVERS.

- ALL WORK WILL BE ON THE SOUTH SIDE OF THE STRUCTURE.
- REMOVE CONCRETE DECK AND MEDIAN TO INSTALL NEW EXPANSION JOINTS.
- INSTALL SIDE RETAINERS AT ABUTMENT BEARINGS.
- COMPLETE BRIDGE DECK PATCHING

SET UP STAGE 2 TRAFFIC CONTROL.

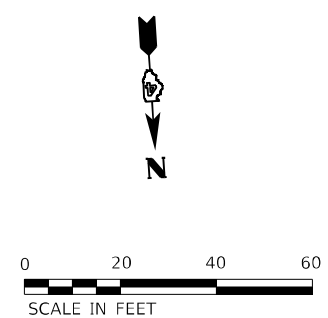
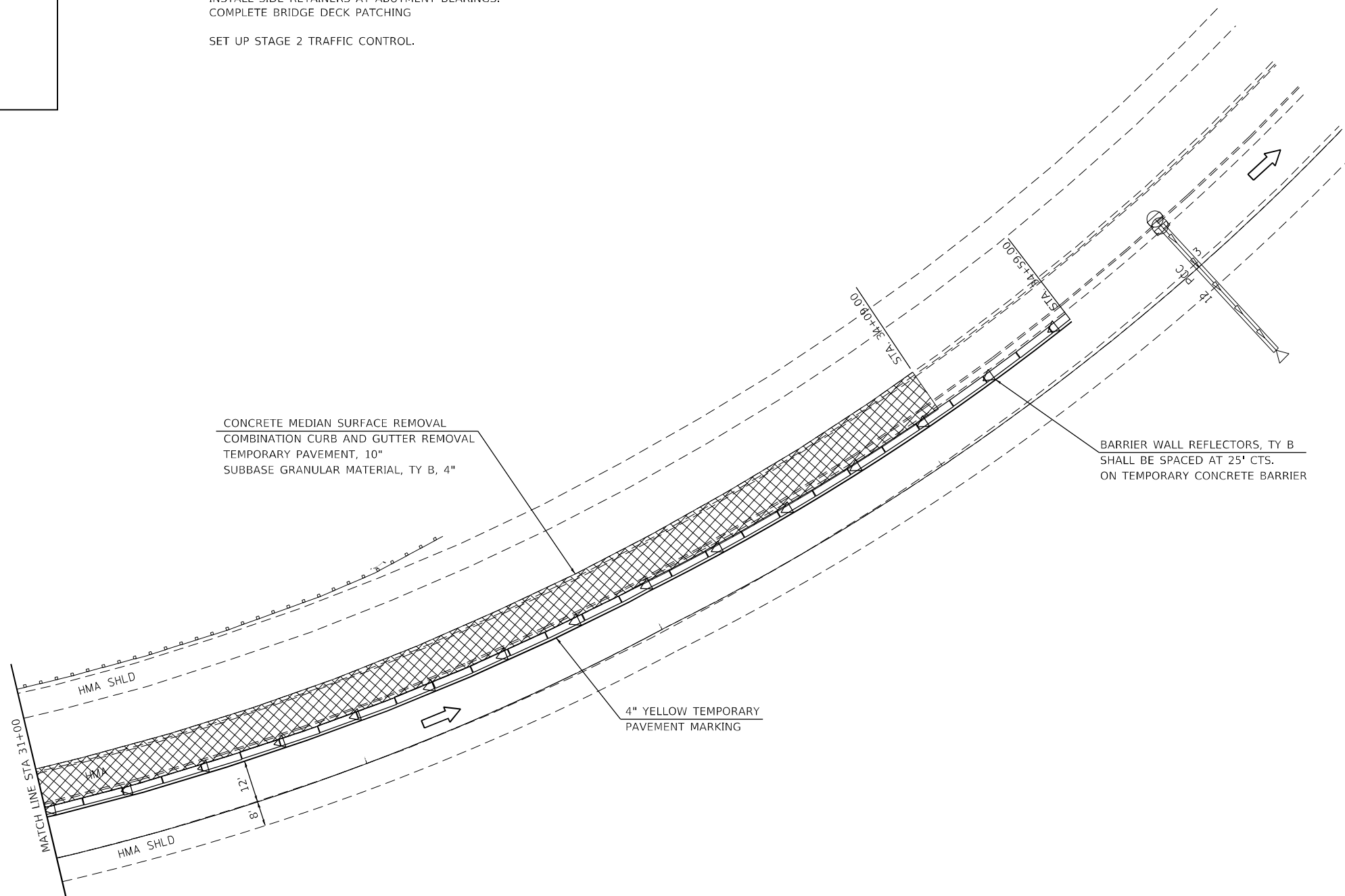
GENERAL NOTES

DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

COVER ALL CONFLICTING SIGNS.



MODEL: Default; FILE NAME: C:\Users\j213081\OneDrive\Work\09 - FY 2023\Structures\Transportation\SM 072-01\93\CADD\_Sheets\alt-Traffic\_Control\_Stage\_1.dgn

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 Galesburg, Illinois  
497 North Park Street, Galesburg, IL 62541, USA  
 309.343.4444

USER NAME = aschafer	DESIGNED - AMS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - AMS	REVISED -
PLOT DATE = 3/1/2023	CHECKED - EBB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN  
STAGE 1**

SCALE: 1"=20'      SHEET 3 OF 3 SHEETS      STA. 31+00.00 TO STA. 35+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	10
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

**STAGE CONSTRUCTION SEQUENCE**

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 2:**

ALL WORK WILL BE ON THE NORTH SIDE OF THE STRUCTURE.  
 REMOVE CONCRETE DECK AND MEDIAN TO INSTALL NEW EXPANSION JOINTS.  
 INSTALL SIDE RETAINERS AT ABUTMENT BEARINGS.  
 COMPLETE MEDIAN REPAIR ON BRIDGE MEDIAN.

INSTALL YELLOW TUBULAR MARKERS AT 25' CENTERS 2' INSIDE THE MEDIAN CURBLINE THROUGH THE CROSSOVERS. TUBULAR MARKER BASES SHALL BE BOLTED INTO TEMPORARY PAVEMENT.

**GENERAL NOTES**

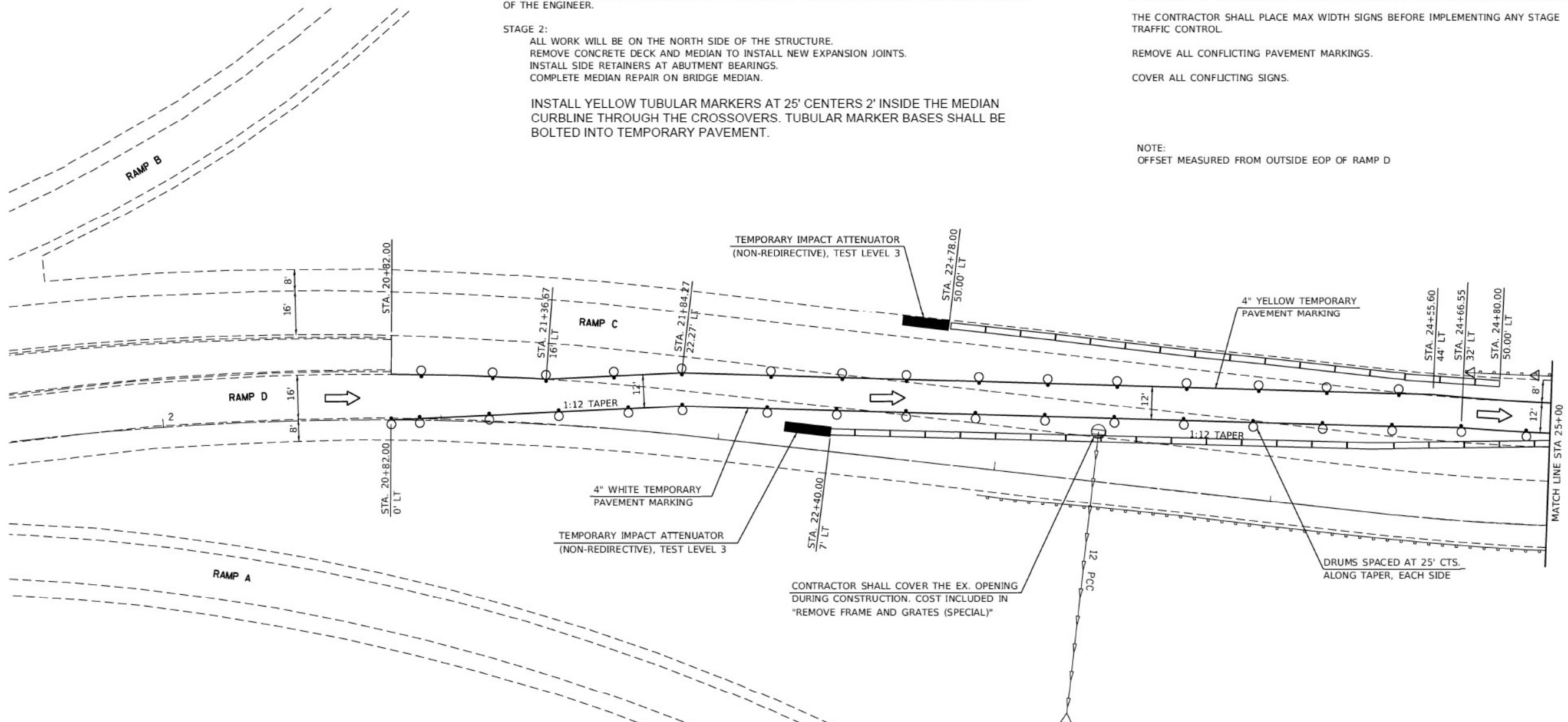
DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

COVER ALL CONFLICTING SIGNS.

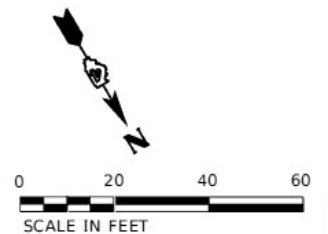
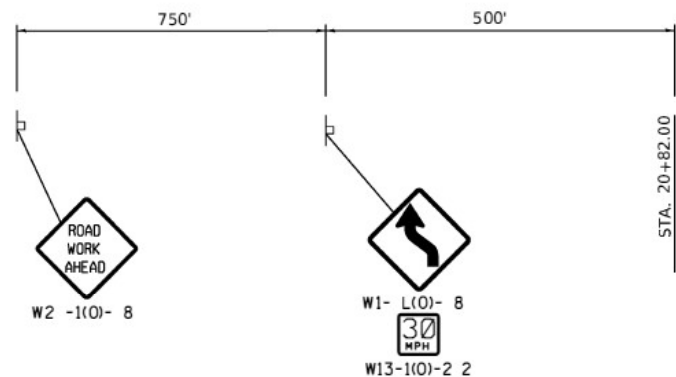
NOTE:  
 OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D



**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE W/FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- BARRIER WALL REFLECTORS
- CONCRETE MEDIAN SURFACE REMOVAL COMBINATION CURB AND GUTTER REMOVAL

**ADVANCE SIGNAGE**



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**KLINGNER ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 Peoria, Illinois

USER NAME = aschafer  
 DESIGNED - AMS  
 DRAWN - AMS  
 PLOT SCALE = 40.0000' / in.  
 CHECKED - EBB  
 PLOT DATE = 3/1/2023

REVISIONS:  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

DATE -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN  
 STAGE 2**

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 19+50.00 TO STA. 25+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	11
CONTRACT NO. 68H63			ILLINOIS FED. AID PROJECT	

**STAGE CONSTRUCTION SEQUENCE**

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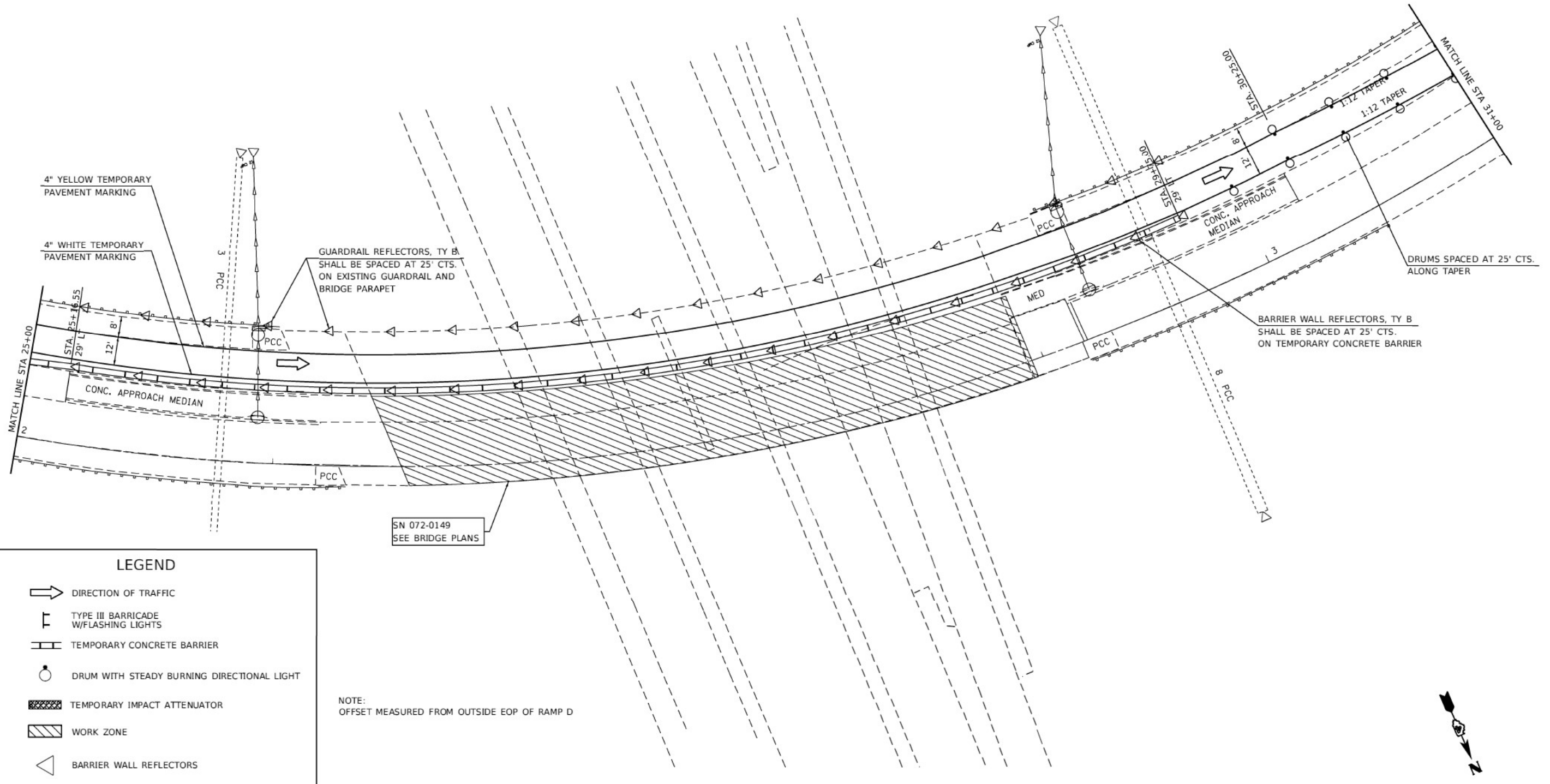
**STAGE 2:**

- ALL WORK WILL BE ON THE NORTH SIDE OF THE STRUCTURE.
- REMOVE CONCRETE DECK AND MEDIAN TO INSTALL NEW EXPANSION JOINTS.
- INSTALL SIDE RETAINERS AT ABUTMENT BEARINGS.
- COMPLETE MEDIAN REPAIR ON BRIDGE MEDIAN.

INSTALL YELLOW TUBULAR MARKERS AT 25' CENTERS 2' INSIDE THE MEDIAN CURBLINE THROUGH THE CROSSOVERS. TUBULAR MARKER BASES SHALL BE BOLTED INTO TEMPORARY PAVEMENT.

**GENERAL NOTES**

- DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"
- THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
- COVER ALL CONFLICTING SIGNS.

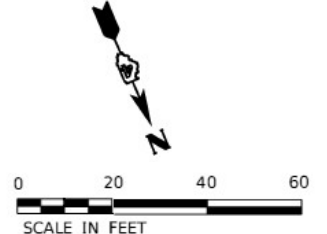


SN 072-0149  
SEE BRIDGE PLANS

**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE W/FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- BARRIER WALL REFLECTORS
- CONCRETE MEDIAN SURFACE REMOVAL COMBINATION CURB AND GUTTER REMOVAL

NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D



**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
Galesburg, Illinois









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PLOT SCALE = 40,0000' / in.	DRAWN - AMS	REVISED -
PLOT DATE = 3/1/2023	CHECKED - EBB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION PLAN STAGE 2			
SCALE: 1"=20'	SHEET 2	OF 3 SHEETS	STA. 25+00.00 TO STA. 31+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31B	(72-6HB-1)BJR,BRR	PEORIA	29	12
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  DIRECTION OF TRAFFIC
-  TYPE III BARRICADE W/FLASHING LIGHTS
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
-  TEMPORARY IMPACT ATTENUATOR
-  WORK ZONE
-  BARRIER WALL REFLECTORS
-  CONCRETE MEDIAN SURFACE REMOVAL COMBINATION CURB AND GUTTER REMOVAL

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 2:**

ALL WORK WILL BE ON THE NORTH SIDE OF THE STRUCTURE.  
 REMOVE CONCRETE DECK AND MEDIAN TO INSTALL NEW EXPANSION JOINTS.  
 INSTALL SIDE RETAINERS AT ABUTMENT BEARINGS.  
 COMPLETE MEDIAN REPAIR ON BRIDGE MEDIAN.

INSTALL YELLOW TUBULAR MARKERS AT 25' CENTERS 2' INSIDE THE MEDIAN CURBLINE THROUGH THE CROSSOVERS. TUBULAR MARKER BASES SHALL BE BOLTED INTO TEMPORARY PAVEMENT.

GENERAL NOTES

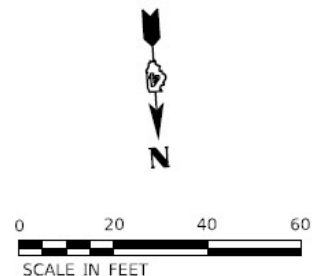
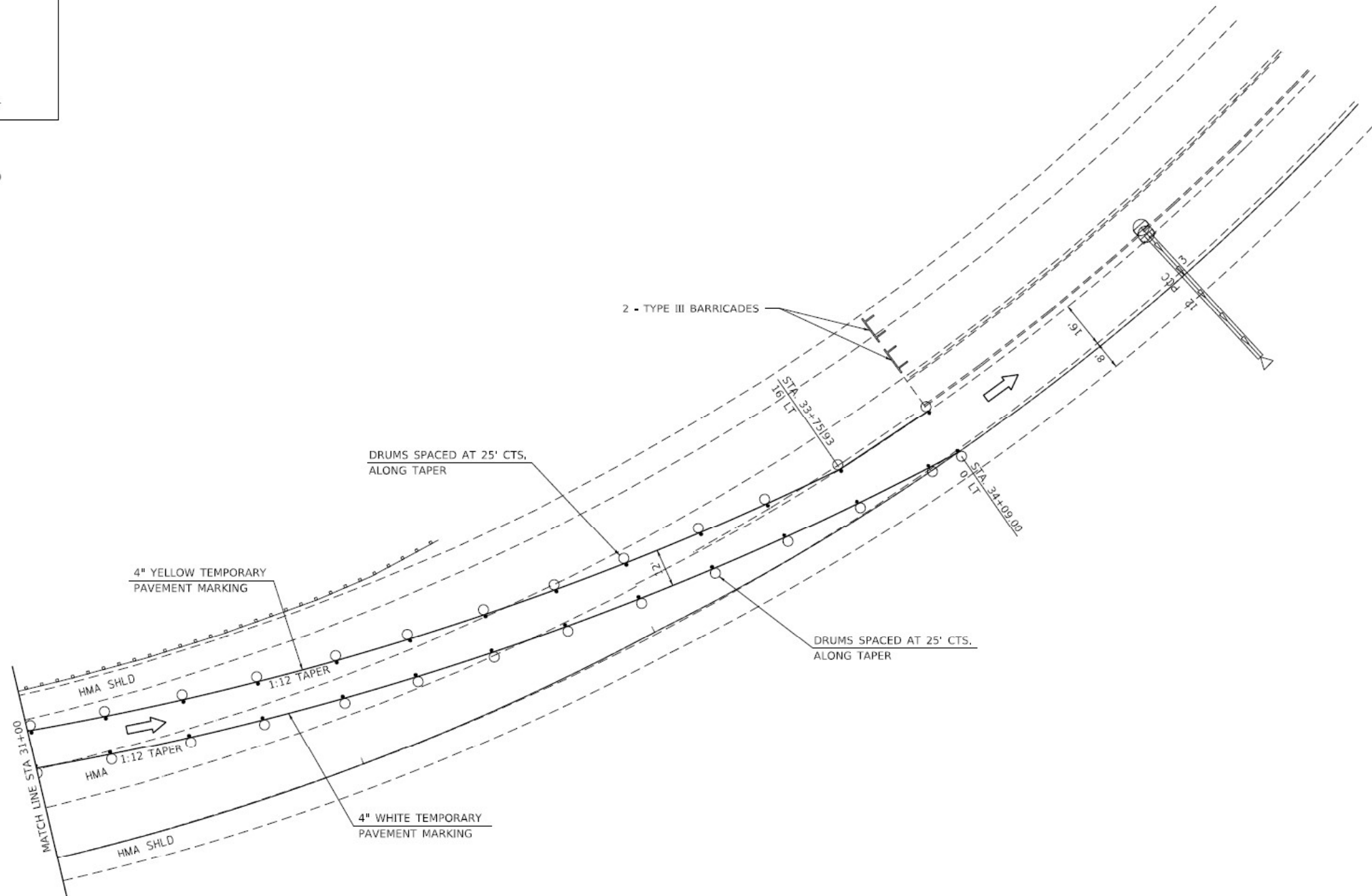
DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

COVER ALL CONFLICTING SIGNS.

NOTE:  
 OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D



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**KLINGNER & ASSOCIATES, P.C.**  
 Engineers - Architects - Surveyors  
 1000 North 1st Street  
 Peoria, Illinois 61603  
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USER NAME	- aschafer	DESIGNED	- AMS	REVISED	-
DRAWN	- AMS	CHECKED	- EBB	REVISED	-
PLOT SCALE	= 40,0000 ' / in.	DATE	-	REVISED	-
PLOT DATE	= 3/1/2023				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION PLAN			
STAGE 2			
SCALE: 1"=20'	SHEET 3	OF 3 SHEETS	STA. 31+00.00 TO STA. 35+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72+6HB+1)BJR.BRR	PEORIA	29	13
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

**STAGE CONSTRUCTION SEQUENCE**

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 3:**

- INSTALL TEMPORARY CONCRETE BARRIER AND BARRIER WALL REFLECTORS. GUARDRAIL REFLECTORS SHALL STILL BE IN PLACE FROM STAGE 1 CONSTRUCTION.
- INSTALL TEMPORARY PAVEMENT MARKING
- REMOVE TEMPORARY PAVEMENT FOR CROSSOVERS.
- CONSTRUCT PROPOSED COMBINED CONCRETE CURB AND GUTTERS, TYPE B-6.12.
- CONSTRUCT PROPOSED CONCRETE MEDIAN SURFACE, 4".

RECONSTRUCT BRIDGE MEDIAN THAT WAS REMOVED FOR EXPANSION JOINT INSTALLATION.

OPEN UP TRAFFIC.

**GENERAL NOTES**

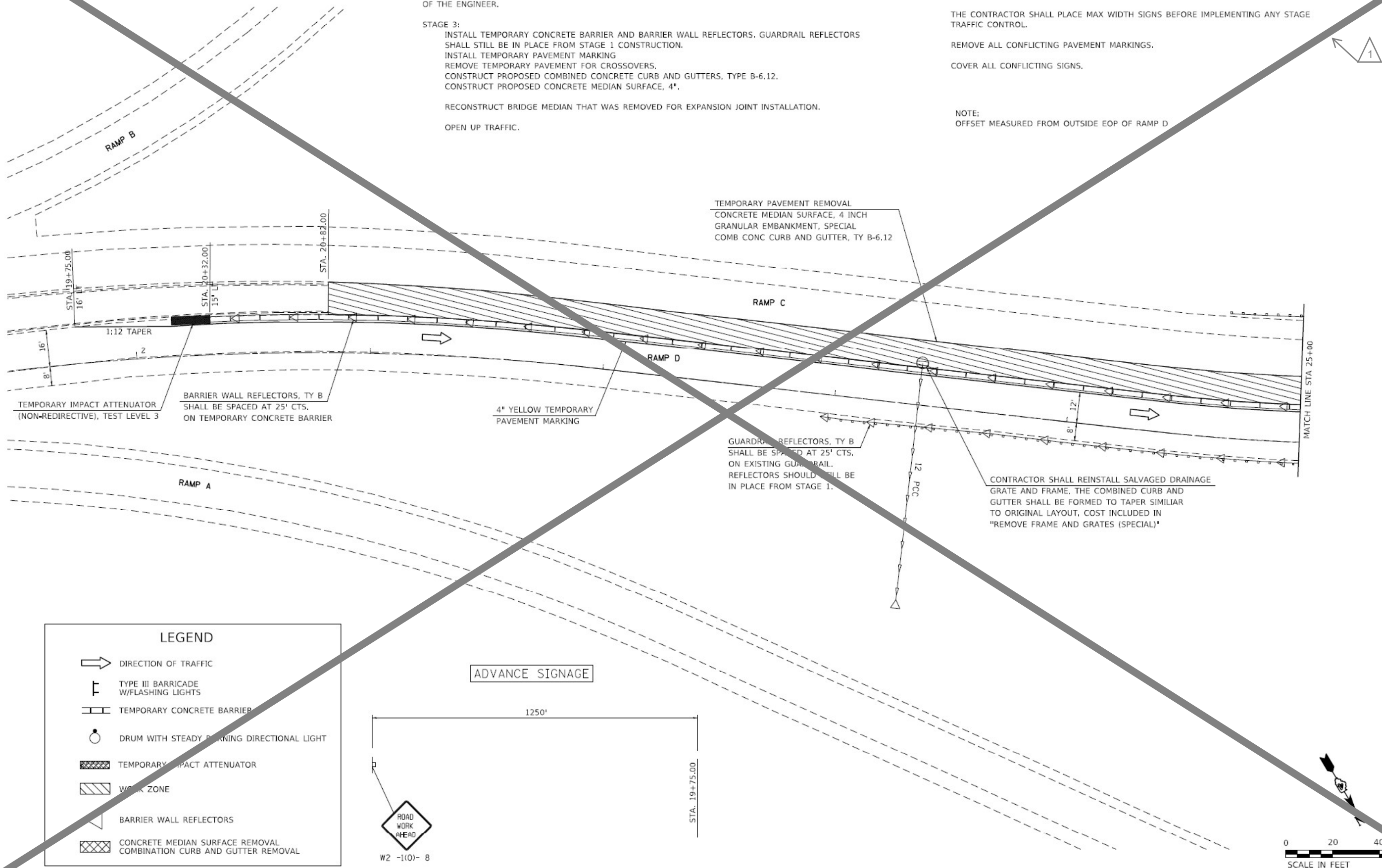
DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

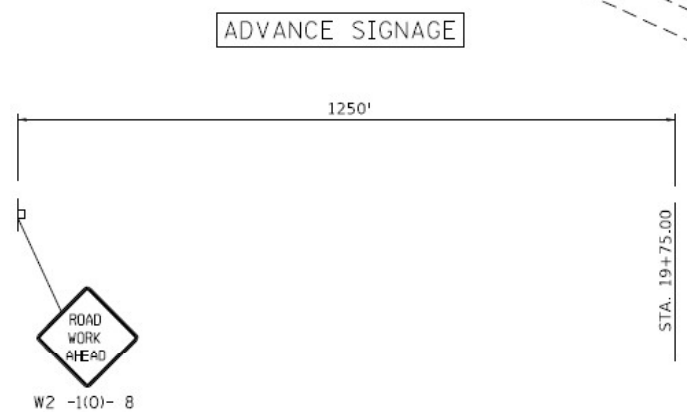
COVER ALL CONFLICTING SIGNS.

NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D



**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE W/FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- BARRIER WALL REFLECTORS
- CONCRETE MEDIAN SURFACE REMOVAL  
COMBINATION CURB AND GUTTER REMOVAL



**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
Galesburg, Illinois

USER NAME = aschafer  
DESIGNED = AMS  
DRAWN = AMS  
CHECKED = EBB  
PLOT SCALE = 40,0000' / 1" = 40,000'  
PLOT DATE = 3/1/2023

REVISIONS:  
REVISED -  
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REVISED -  
REVISED -

DATE -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN  
STAGE 3**

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 19+50.00 TO STA. 25+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6H8-1)BJR,BRR	PEORIA	29	14
CONTRACT NO. 68H63			ILLINOIS FED. AID PROJECT	

**STAGE CONSTRUCTION SEQUENCE**

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

**STAGE 3:**

- INSTALL TEMPORARY CONCRETE BARRIER AND BARRIER WALL REFLECTORS. GUARDRAIL REFLECTORS SHALL STILL BE IN PLACE FROM STAGE 1 CONSTRUCTION.
- INSTALL TEMPORARY PAVEMENT MARKING
- REMOVE TEMPORARY PAVEMENT FOR CROSSOVERS.
- CONSTRUCT PROPOSED COMBINED CONCRETE CURB AND GUTTERS, TYPE B-6.12.
- CONSTRUCT PROPOSED CONCRETE MEDIAN SURFACE, 4".

RECONSTRUCT BRIDGE MEDIAN THAT WAS REMOVED FOR EXPANSION JOINT INSTALLATION.

OPEN UP TRAFFIC.

**GENERAL NOTES**

DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

COVER ALL CONFLICTING SIGNS.

TEMPORARY PAVEMENT REMOVAL  
CONCRETE MEDIAN SURFACE, 4 INCH  
GRANULAR EMBANKMENT, SPECIAL  
COMB CONC CURB AND GUTTER, TY B-6.12

BARRIER WALL REFLECTORS, TY B  
SHALL BE SPACED AT 25' CTS.  
ON TEMPORARY CONCRETE BARRIER

GUARDRAIL REFLECTORS, TY B  
SHALL BE SPACED AT 25' CTS.  
ON EXISTING GUARDRAIL.  
REFLECTORS SHOULD STILL BE  
IN PLACE FROM STAGE 1.

SN 072-0149  
SEE BRIDGE PLANS

NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D

**LEGEND**

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE W/FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- BARRIER WALL REFLECTORS
- CONCRETE MEDIAN SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL



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**KLINGNER & ASSOCIATES, P.C.**  
Engineers - Architects - Surveyors  
www.k-a.com  
Galesburg, Illinois

USER NAME = aschafer  
DESIGNED - AMS  
DRAWN - AMS  
PLOT SCALE = 40.0000' / In.  
CHECKED - EBB  
PLOT DATE = 3/1/2023  
DATE -

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






**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN  
STAGE 3**

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 25+00.00 TO STA. 31+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6H8-1)BJR,BRR	PEORIA	29	15
CONTRACT NO. 68H63			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADE W/FLASHING LIGHTS
-  TEMPORARY CONCRETE BARRIER
-  DRUM WITH STEADY BURNING DIRECTIONAL LIGHT
-  TEMPORARY IMPACT ATTENUATOR
-  WORK ZONE
-  BARRIER WALL REFLECTORS
-  CONCRETE MEDIAN SURFACE REMOVAL COMBINATION CURB AND GUTTER REMOVAL

NOTE:  
OFFSET MEASURED FROM OUTSIDE EOP OF RAMP D

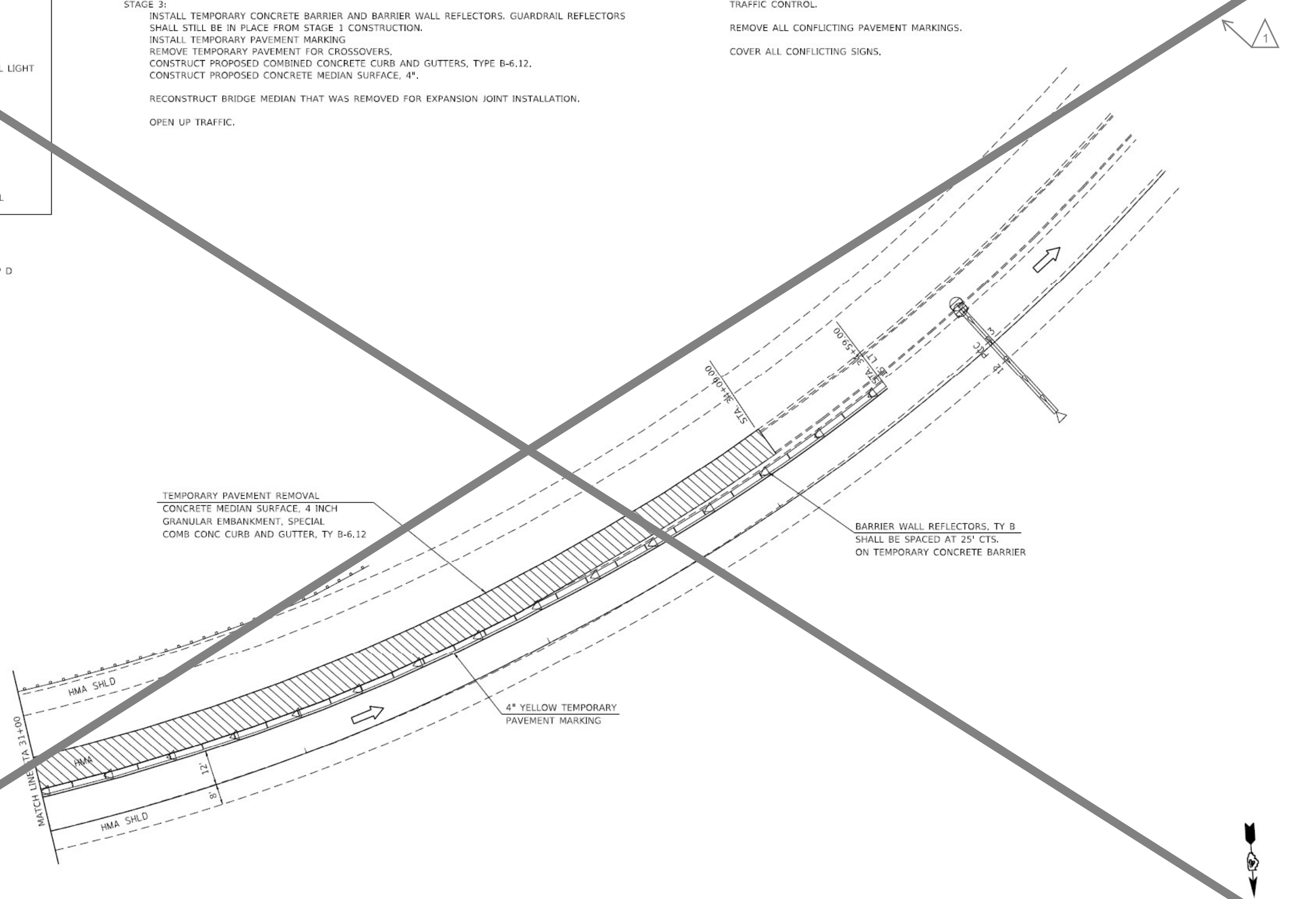
STAGE CONSTRUCTION SEQUENCE

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- STAGE 3:
- INSTALL TEMPORARY CONCRETE BARRIER AND BARRIER WALL REFLECTORS. GUARDRAIL REFLECTORS SHALL STILL BE IN PLACE FROM STAGE 1 CONSTRUCTION.
  - INSTALL TEMPORARY PAVEMENT MARKING
  - REMOVE TEMPORARY PAVEMENT FOR CROSSOVERS.
  - CONSTRUCT PROPOSED COMBINED CONCRETE CURB AND GUTTERS, TYPE B-6.12.
  - CONSTRUCT PROPOSED CONCRETE MEDIAN SURFACE, 4".
- RECONSTRUCT BRIDGE MEDIAN THAT WAS REMOVED FOR EXPANSION JOINT INSTALLATION.
- OPEN UP TRAFFIC.

GENERAL NOTES

- DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, AND SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD, (SPECIAL)"
- THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
- COVER ALL CONFLICTING SIGNS.



TEMPORARY PAVEMENT REMOVAL  
CONCRETE MEDIAN SURFACE, 4 INCH  
GRANULAR EMBANKMENT, SPECIAL  
COMB CONC CURB AND GUTTER, TY B-6.12

BARRIER WALL REFLECTORS, TY B  
SHALL BE SPACED AT 25' CTS.  
ON TEMPORARY CONCRETE BARRIER

4" YELLOW TEMPORARY  
PAVEMENT MARKING



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	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION**

<b>STAGE CONSTRUCTION PLAN STAGE 3</b>			
SCALE: 1"=20'	SHEET 3	OF 3 SHEETS	STA. 31+00.00 TO STA. 35+50.00

F.A.P. RTE. 318	SECTION (72-6H8-1)BJR,BRR	COUNTY PEORIA	TOTAL SHEETS 29	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H63	





**INDEX OF SHEETS**

1. GENERAL PLAN AND ELEVATION
2. GENERAL NOTES, TOTAL BILL OF MATERIAL
3. SUPERSTRUCTURE DETAILS
4. STAGING
5. JOINT REMOVAL DETAILS
6. JOINT REPLACEMENT DETAILS
7. MEDIAN REPLACEMENT DETAILS
8. DECK PATCHING
9. SIDE RETAINER DETAILS
10. ABUTMENT CONCRETE REPAIR
11. PREFORMED JOINT STRIP SEAL
12. BAR SPLICERS
13. TEMPORARY CONCRETE BARRIER

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 1 in. Ø, holes 1¼ in. Ø, unless otherwise noted.

Calculated weight of Structural Steel = 350 lbs. (Grade 36)

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding ¼ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	15.6
Protective Coat	Sq. Yd.	45
Concrete Superstructure	Cu. Yd.	15.9
Furnishing and Erecting Structural Steel	Pound	842
Reinforcement Bars, Epoxy Coated	Pound	2,470
Bar Splicers	Each	22
Prefomed Joint Strip Seal	Foot	130
Anchor Bolts, 1"	Each	72
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	251
Deck Slab Repair (Partial)	Sq. Yd.	12.8

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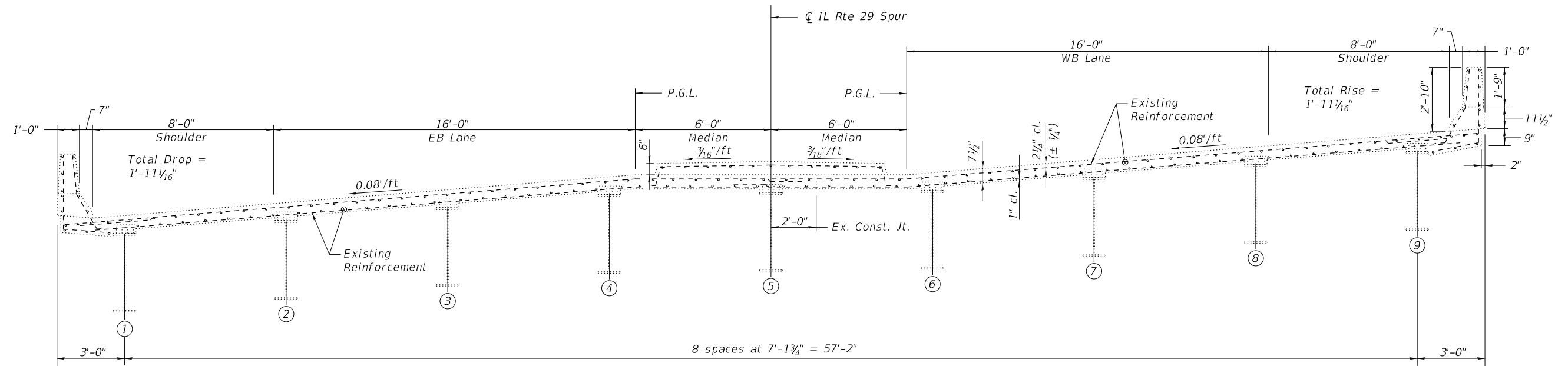
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**GENERAL NOTES TOTAL BILL OF MATERIAL SIDE RETAINERS  
STRUCTURE NO. 072-0149**

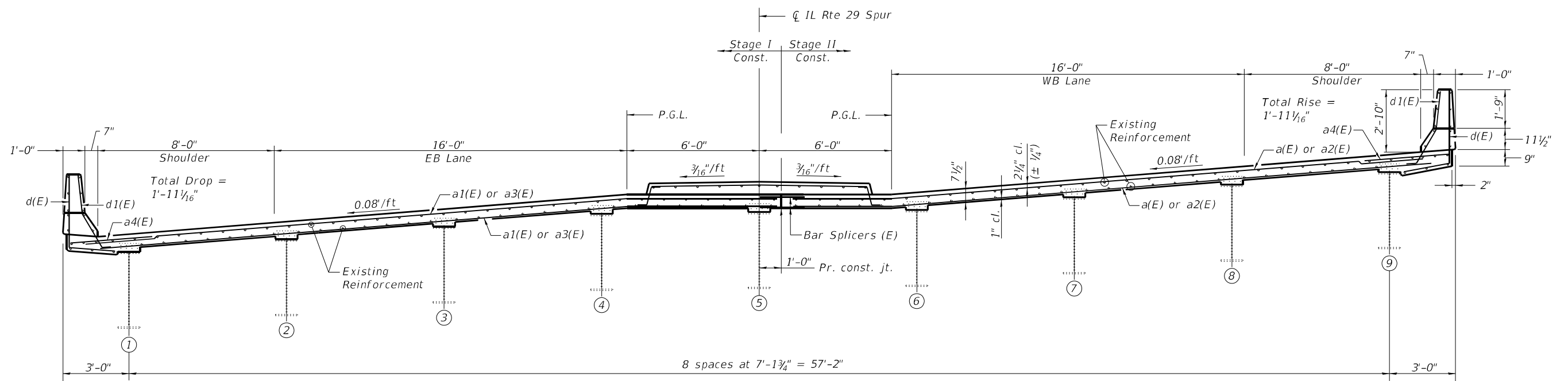
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	18
CONTRACT NO. 68H63				
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**EXISTING CROSS SECTION THRU EXPANSION JOINT**  
(Looking West)

\*Note: The longitudinal reinforcement bars in the area of the slab, curb, and parapet removal areas should remain in place and should be cleaned and incorporated into the new construction. Cost included with concrete removal.



**PROPOSED CROSS SECTION THRU EXPANSION JOINT**  
(Looking West)

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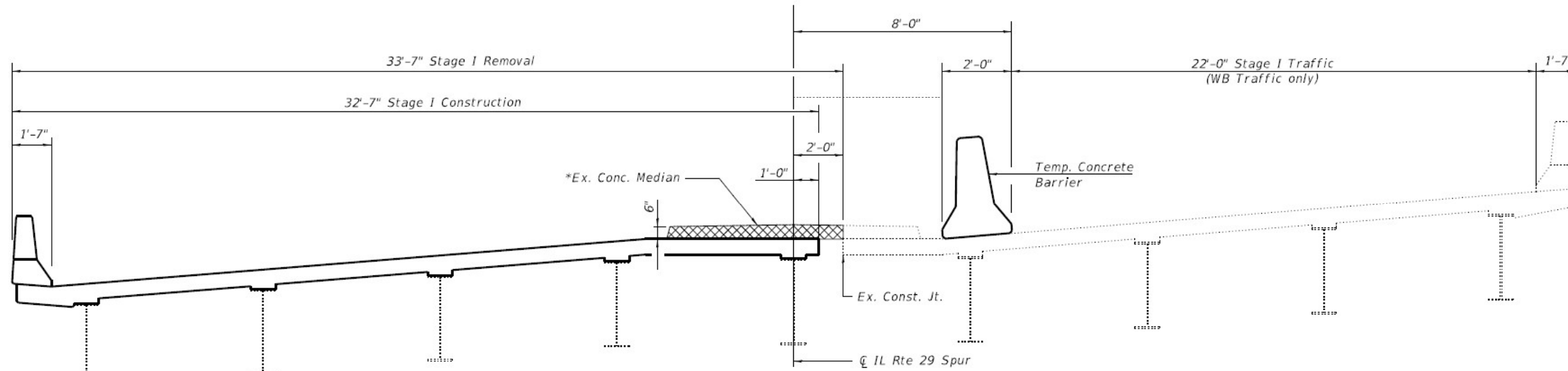
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**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 072-0149**

SCALE: SHEET 3 OF 13 SHEETS STA. TO STA.

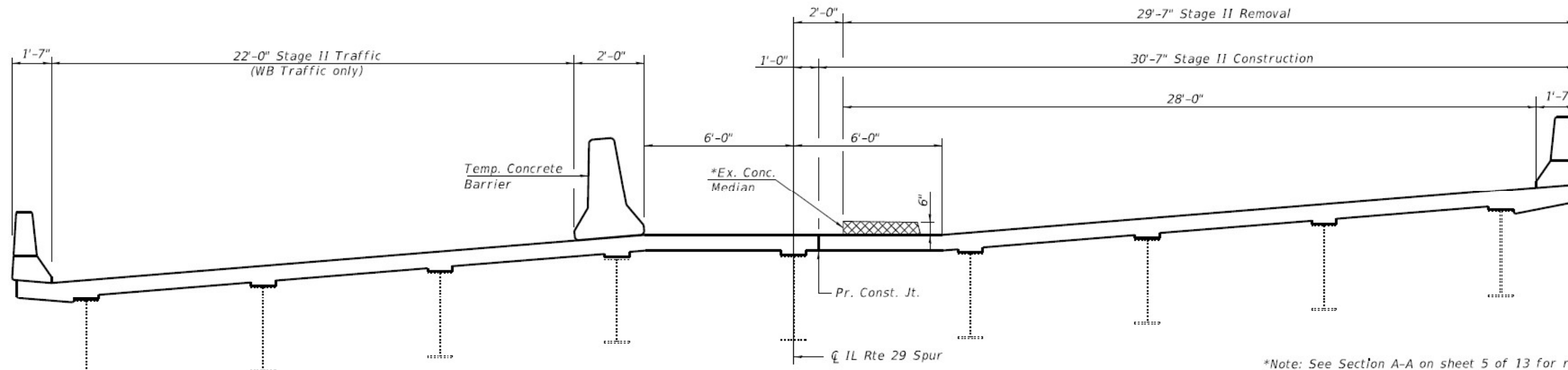
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318	(72-6HB-1)BJR,BRR	PEORIA	29	19
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				



**STAGE I CONSTRUCTION THRU EXPANSION JOINT**

(Looking West)

\*Note: See Section A-A on sheet 5 of 13 for removal limits.



**STAGE II CONSTRUCTION THRU EXPANSION JOINT**

(Looking West)

\*Note: See Section A-A on sheet 5 of 13 for removal limits.

Concrete Median to be removed, cost included with Concrete Removal

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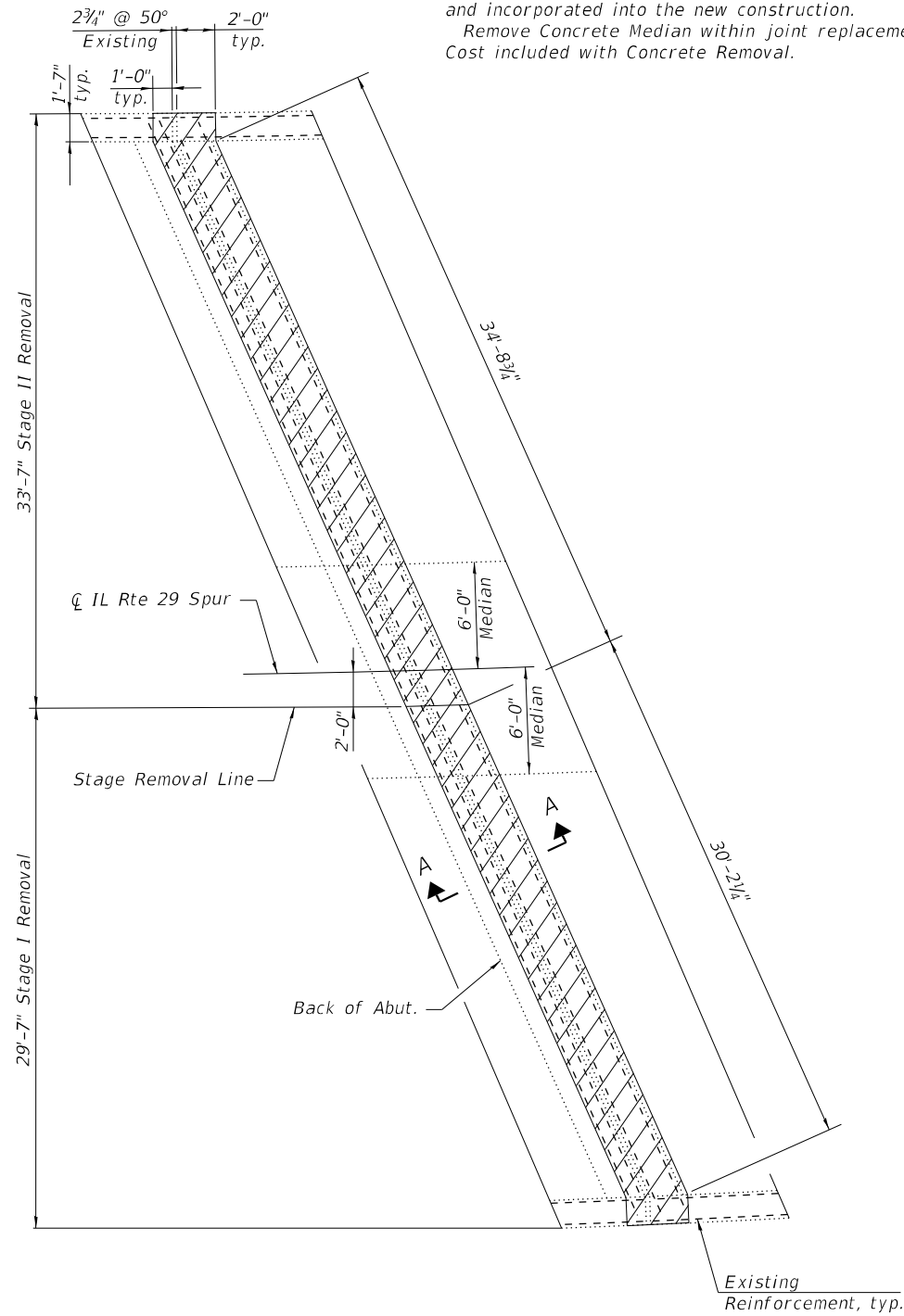
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**STAGING  
STRUCTURE NO. 072-0149**

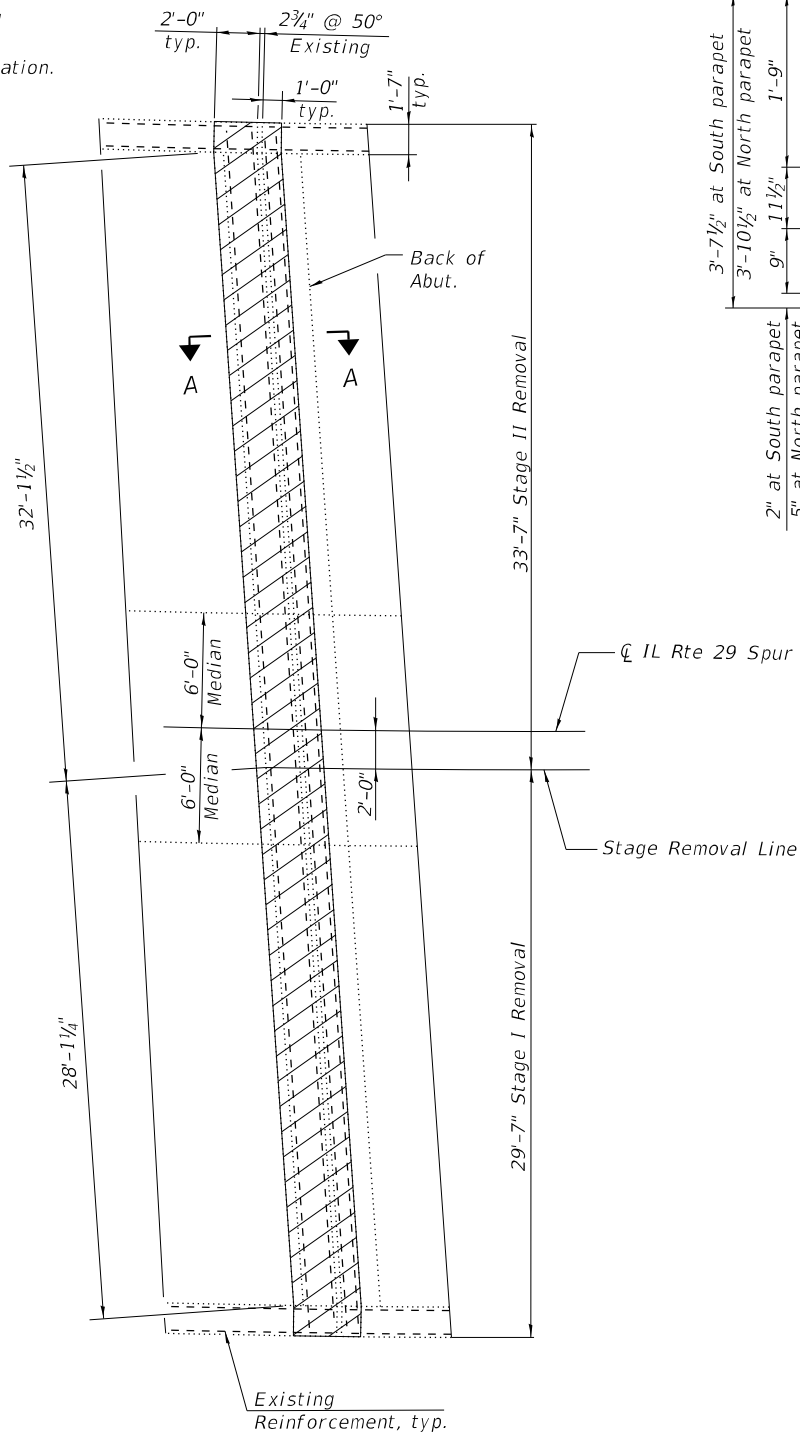
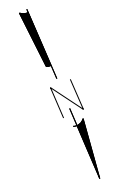
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68H63			ILLINOIS FED. AID PROJECT	

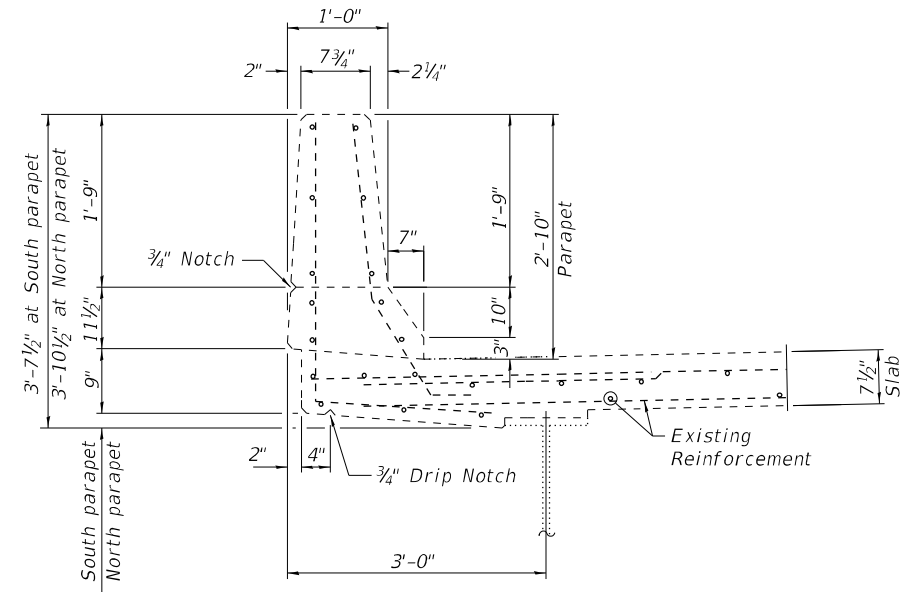
Notes:  
 Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut  $\frac{3}{4}$ " prior to the removal of concrete.  
 Existing reinforcement bars shown are to be cleaned and incorporated into the new construction.  
 Remove Concrete Median within joint replacement location.  
 Cost included with Concrete Removal.



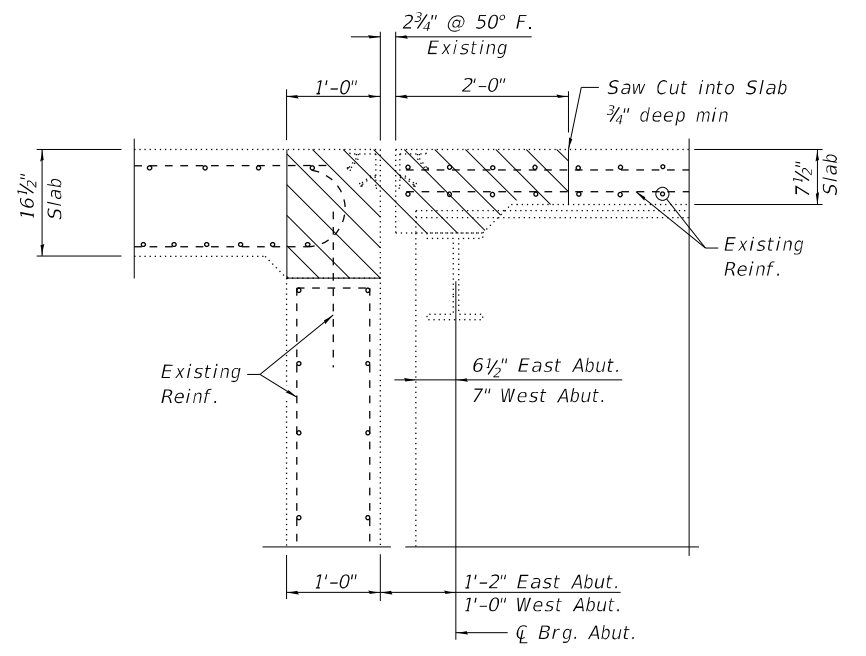
**PARTIAL REMOVAL PLAN**  
 (East Abutment)



**PARTIAL REMOVAL PLAN**  
 (West Abutment)



**SECTION THRU EXISTING PARAPET**  
 (showing removal)



**SECTION A-A**  
 (showing removal)

**TWO ABUTMENTS**  
**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	15.3

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**JOINT REMOVAL DETAILS**  
**STRUCTURE NO. 072-0149**

SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

F.A.P. RTE. 318	SECTION (72-6HB-1)BR,BRR	COUNTY PEORIA	TOTAL SHEETS 29	SHEET NO. 21
CONTRACT NO. 68H63				
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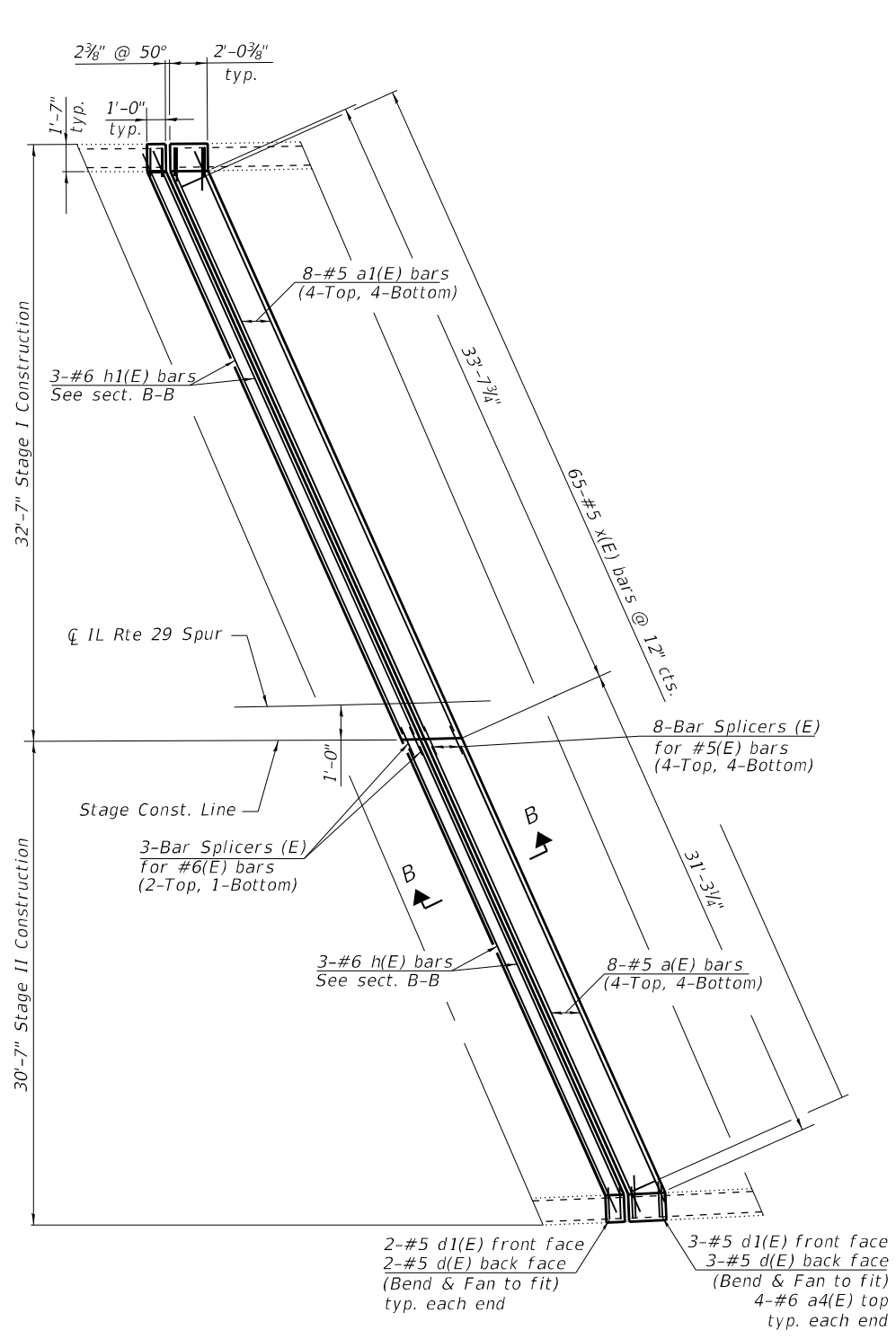
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**JOINT REPLACEMENT DETAILS  
 STRUCTURE NO. 072-0149**

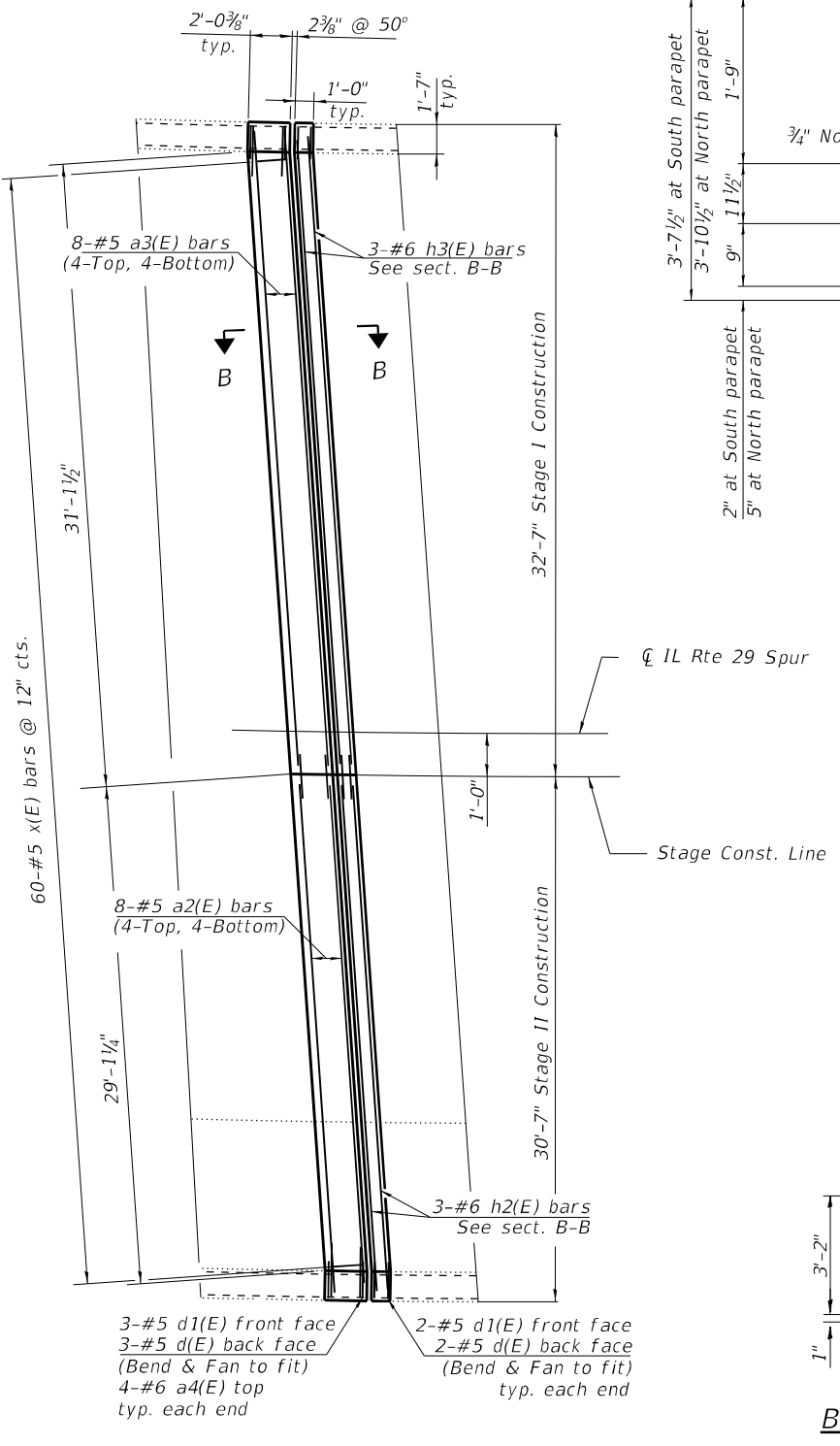
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CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

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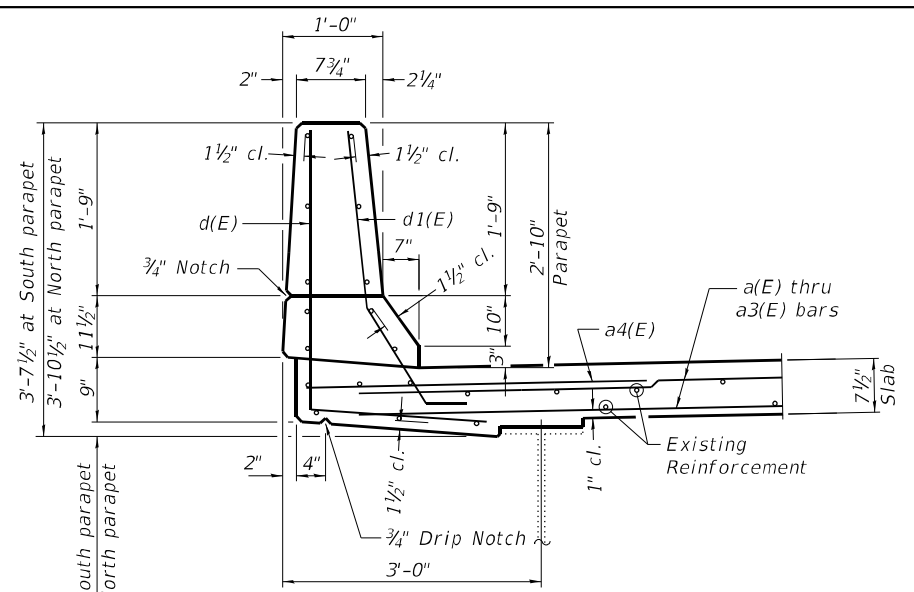
Note: See Sheet 7 of 13 for reinforcement Bill of Material



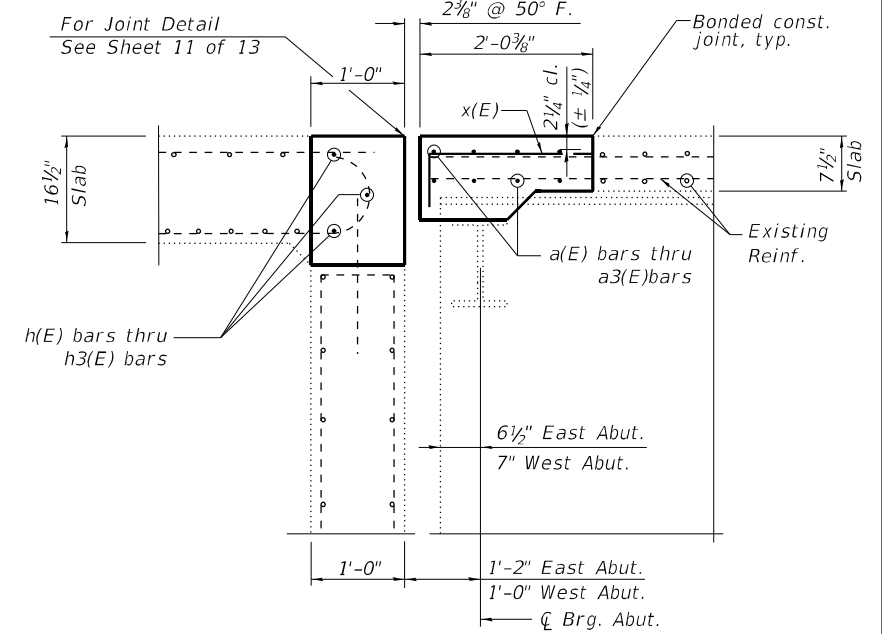
PARTIAL PROPOSED PLAN  
(East Abutment)



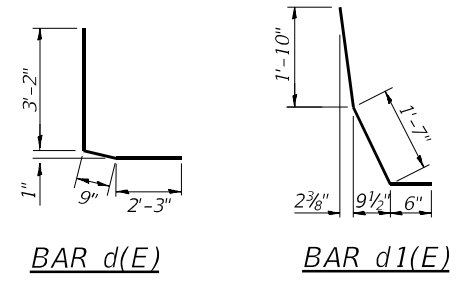
PARTIAL PROPOSED PLAN  
(West Abutment)



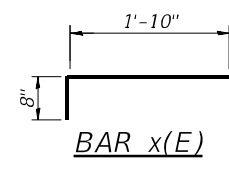
SECTION THRU PARAPET



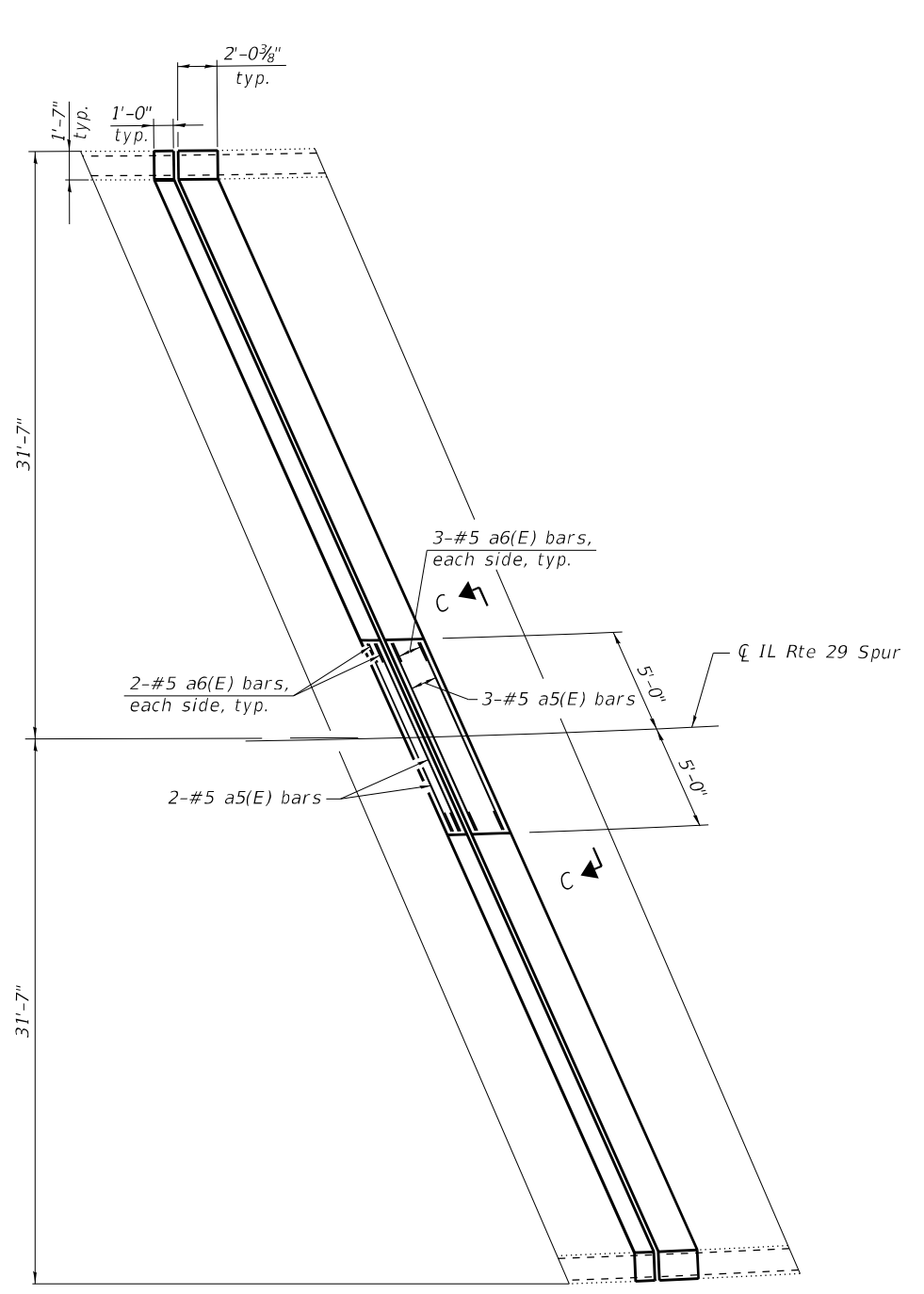
SECTION B-B



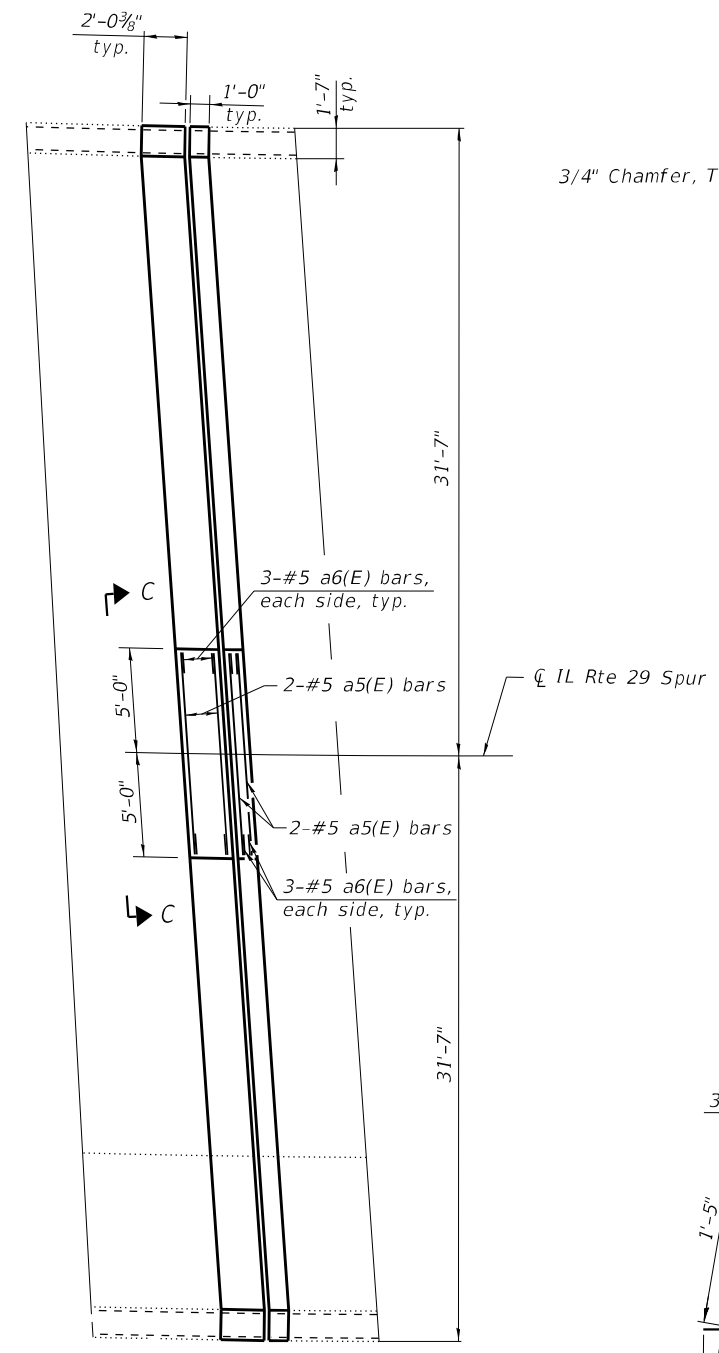
BAR d(E)      BAR d1(E)



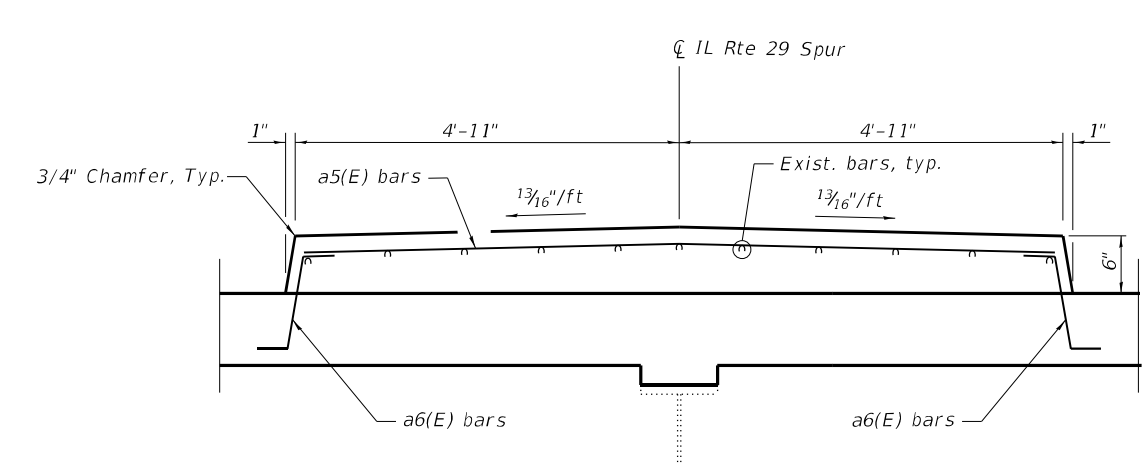
BAR x(E)



**PARTIAL PROPOSED PLAN - MEDIAN**  
(East Abutment)

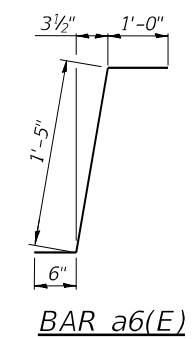


**PARTIAL PROPOSED PLAN - MEDIAN**  
(West Abutment)



**SECTION C-C**  
(Deck Reinforcement not shown for clarity)

Notes:  
Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced, as directed by the engineer.  
Cost included in Concrete Removal.



**TWO ABUTMENTS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#5	32'-1"	—
a1(E)	8	#5	34'-6"	—
a2(E)	8	#5	29'-10"	—
a3(E)	8	#5	31'-10"	—
a4(E)	16	#6	4'-0"	—
a5(E)	10	#5	9'-7"	—
a6(E)	20	#5	2'-11"	J
b(E)	1	#5	19'-8"	—
d(E)	20	#5	6'-2"	J
d1(E)	20	#5	3'-11"	J
h(E)	3	#6	32'-8"	—
h1(E)	3	#6	35'-1"	—
h2(E)	3	#6	30'-4"	—
h3(E)	3	#6	32'-4"	—
x(E)	125	#5	2'-6"	J
Reinforcement Bars, Epoxy Coated			Pound	2,470
Bar Splicers			Each	22
Concrete Superstructure			Cu. Yd.	15.6
Protective Coat			Sq. Yd.	42

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**MEDIAN REPLACEMENT DETAILS  
STRUCTURE NO. 072-0149**

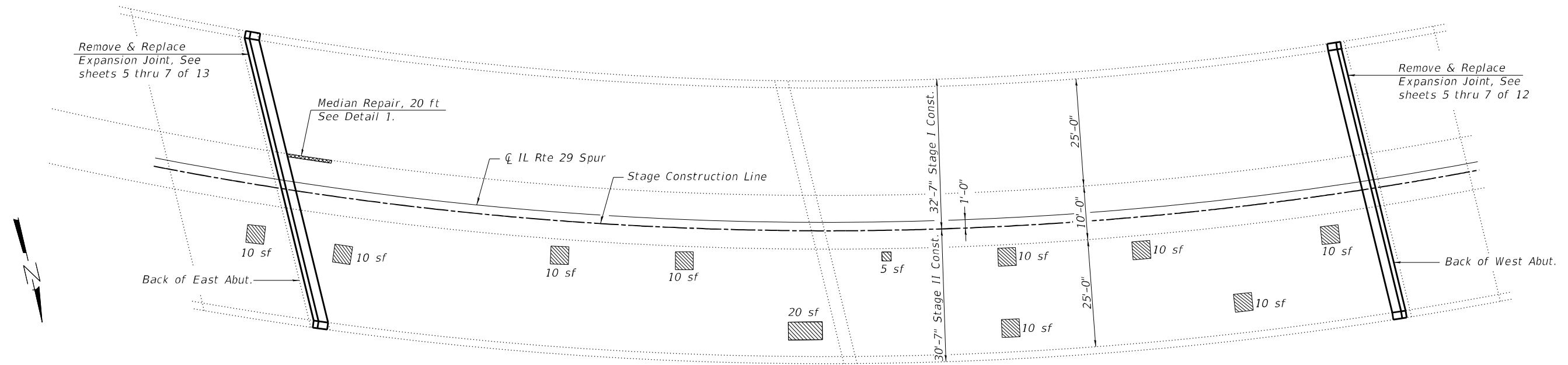
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CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

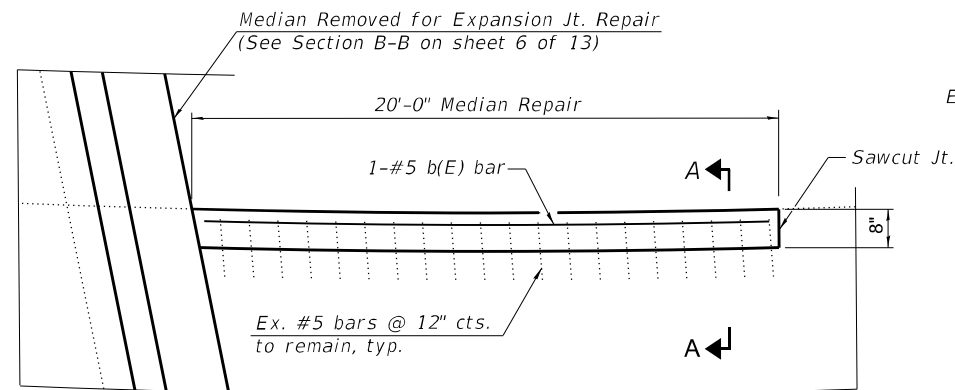
**LEGEND**

 Deck Slab Repair (Partial Depth)

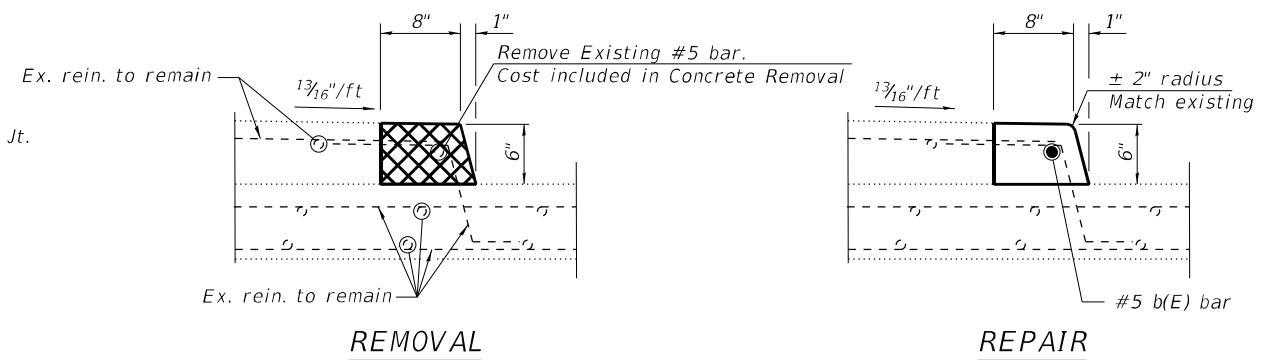
 Remove and Replace Curb



**DECK PATCHING PLAN**



**DETAIL 1 - CURB REPAIR PLAN**



**SECTION A-A**

Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced, as directed by the engineer. Cost included in Concrete Removal.

**BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	12.8
Concrete Superstructure	Cu. Yd.	0.3
Concrete Removal	Cu. Yd.	0.3
Protective coat	Sq. Yd.	3

See Sheet 7 of 13 for reinforcement Bill of Material

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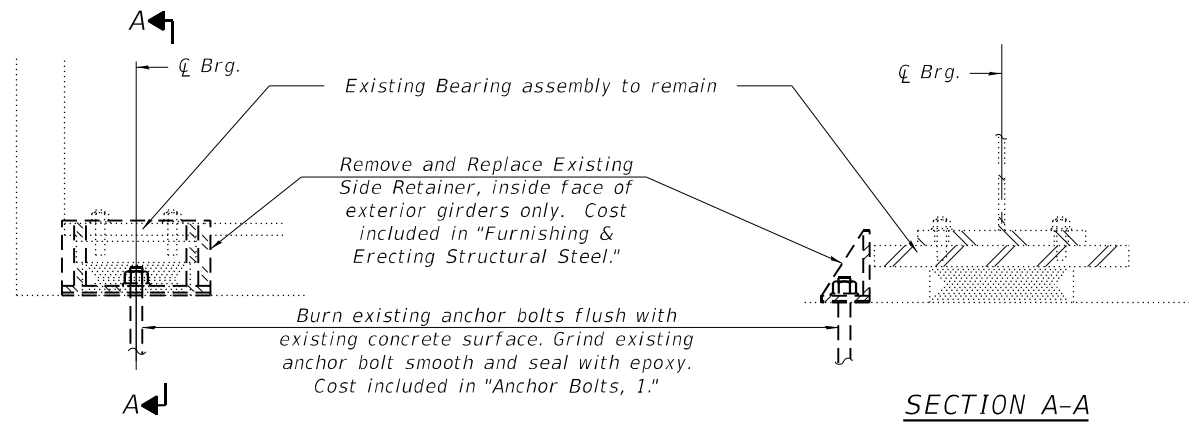
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**DECK PATCHING  
 STRUCTURE NO. 072-0149**

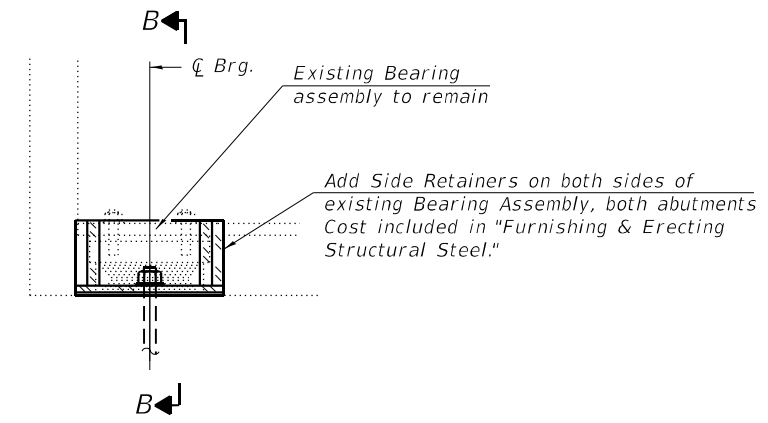
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CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

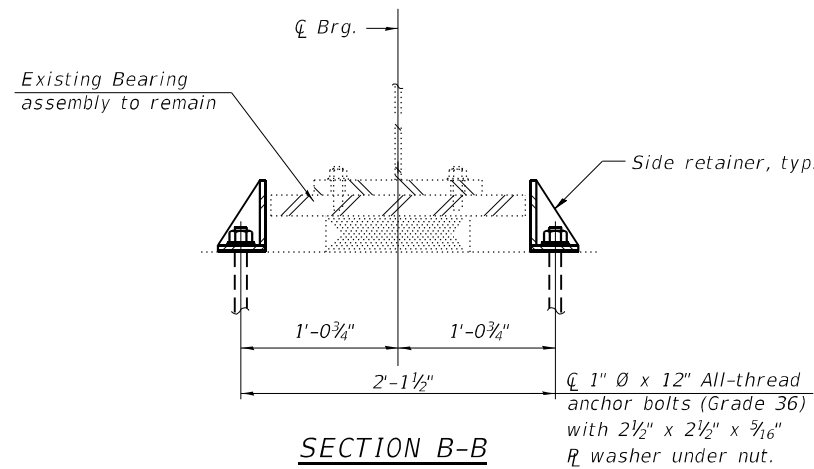




**ANCHOR BOLT & SIDE RETAINER REMOVAL**  
(Inside face of exterior girders, 4 each)

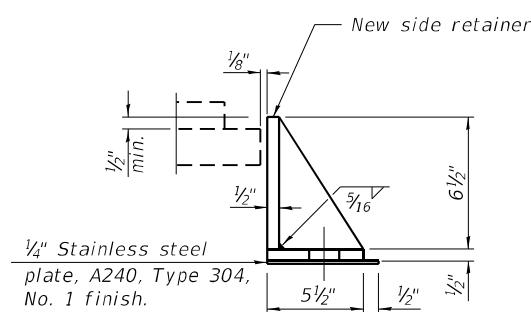


**PROPOSED ANCHOR BOLTS & SIDE RETAINERS**  
(18 locations)



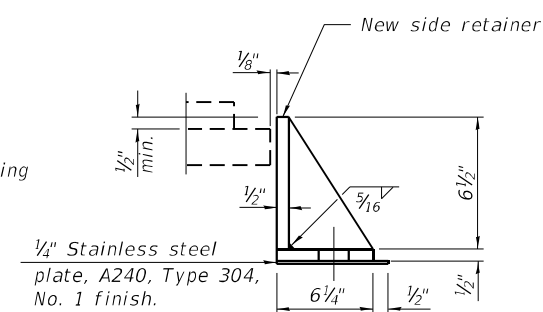
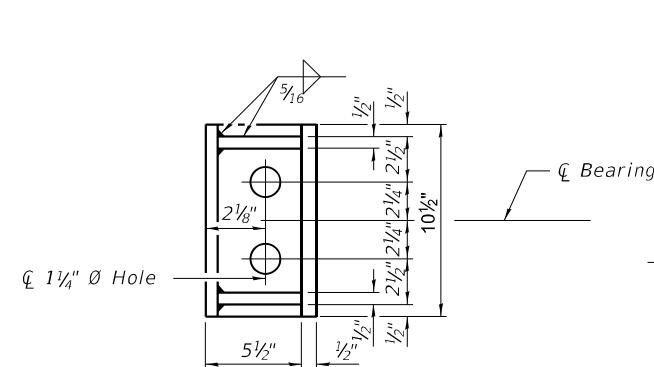
**SECTION B-B**

**Notes:**  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
All side retainers, anchor bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable unless noted otherwise.



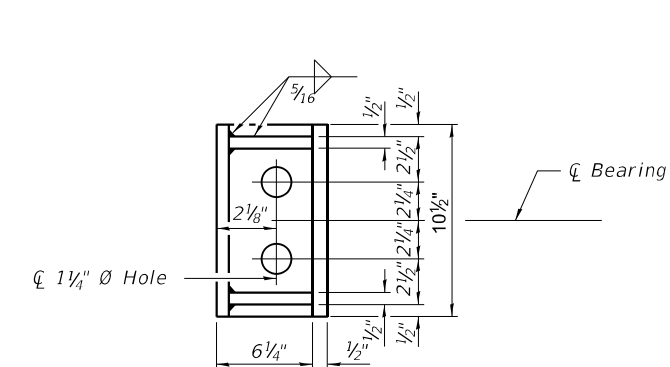
**SIDE RETAINER - EAST ABUTMENT**  
(18 each)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**SIDE RETAINER - WEST ABUTMENT**  
(18 each)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**TWO ABUTMENTS  
BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1"	Each	72
Furnishing and Erecting Structural Steel	Pound	842

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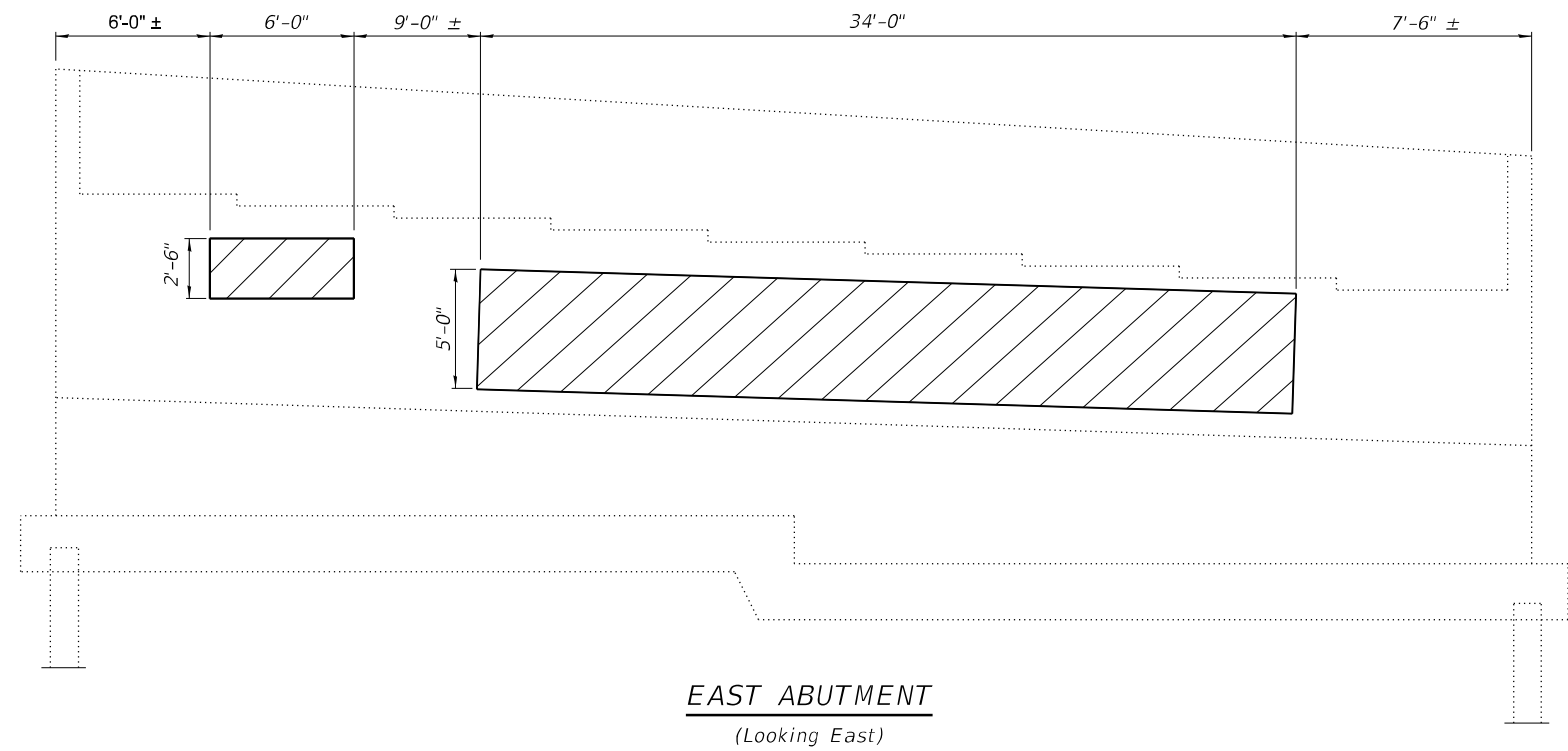
**STATE OF ILLINOIS  
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<b>SIDE RETAINER DETAILS STRUCTURE NO. 072-0149</b>	
SCALE:	SHEET 9 OF 13 SHEETS STA. TO STA.

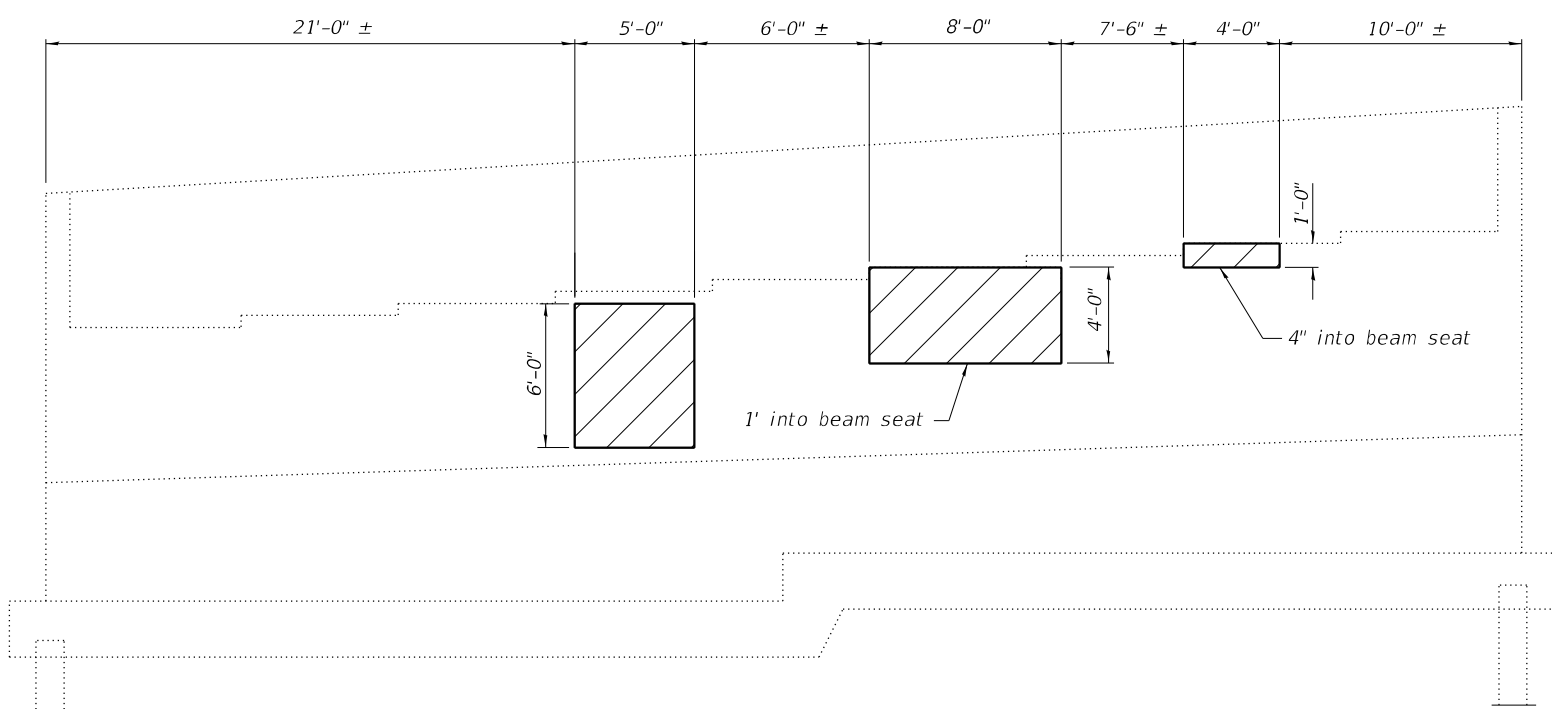
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	25
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				

**LEGEND**

 Structural Repair of Concrete (Depth Equal to or Less than 5 inches)



**EAST ABUTMENT**  
(Looking East)



**WEST ABUTMENT**  
(Looking West)

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	251

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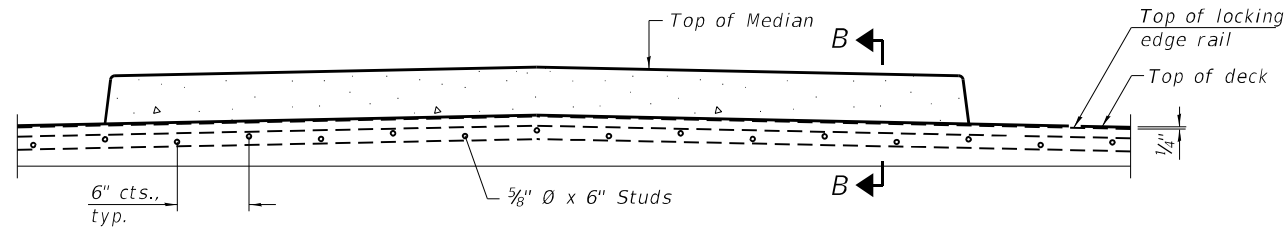
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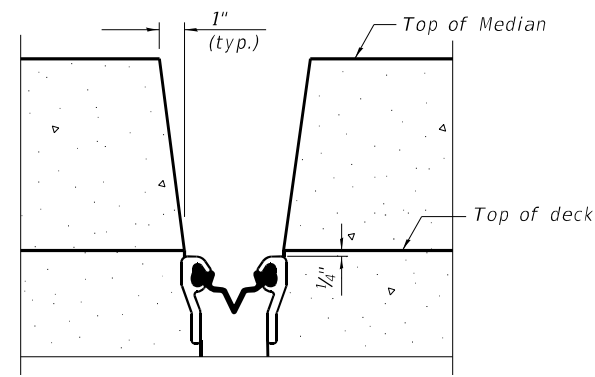
**ABUTMENT CONCRETE REPAIR  
STRUCTURE NO. 072-0149**

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

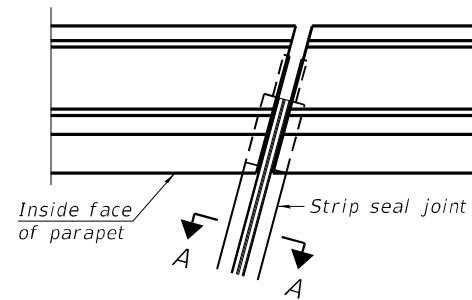
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318	(72-6HB-1)BJR,BRR	PEORIA	29	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68H63	



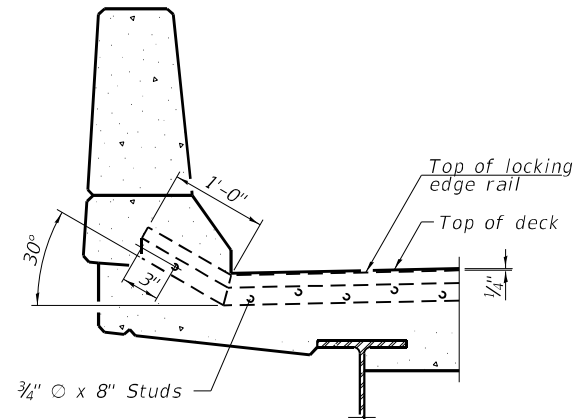
ELEVATION AT MEDIAN



SECTION B-B  
(at Rt. L's)



PLAN AT PARAPET



AT PARAPET

See Section A-A for end treatment of skews > 30°.

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.

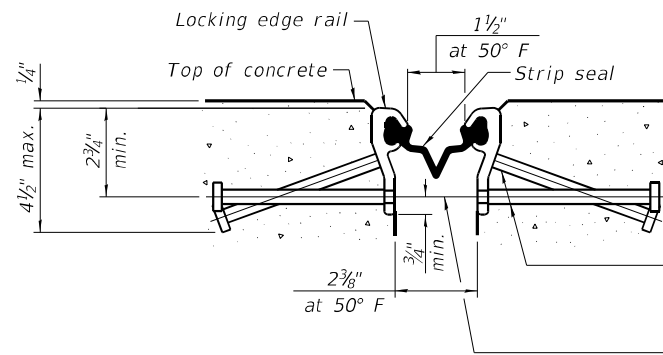
The manufacturer's recommended installation methods shall be followed.

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.

Cost of parapet sliding plates, embedded plates, and anchorage studs 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.



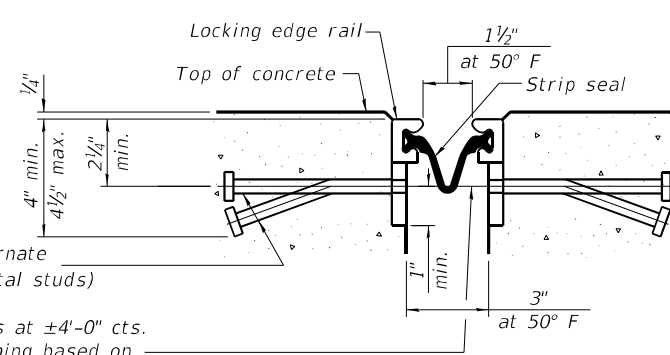
SHOWING ROLLED RAIL JOINT

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

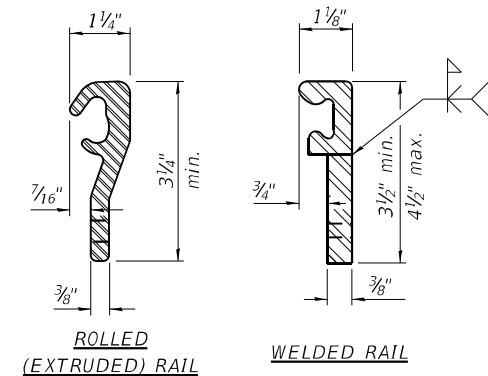
3/8"  $\phi$  threaded rods in 7/16"  $\phi$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

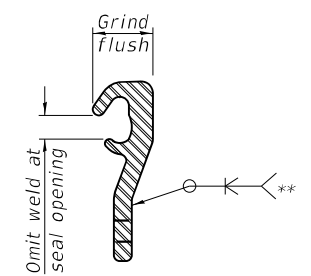


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

\*\* Back 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	130

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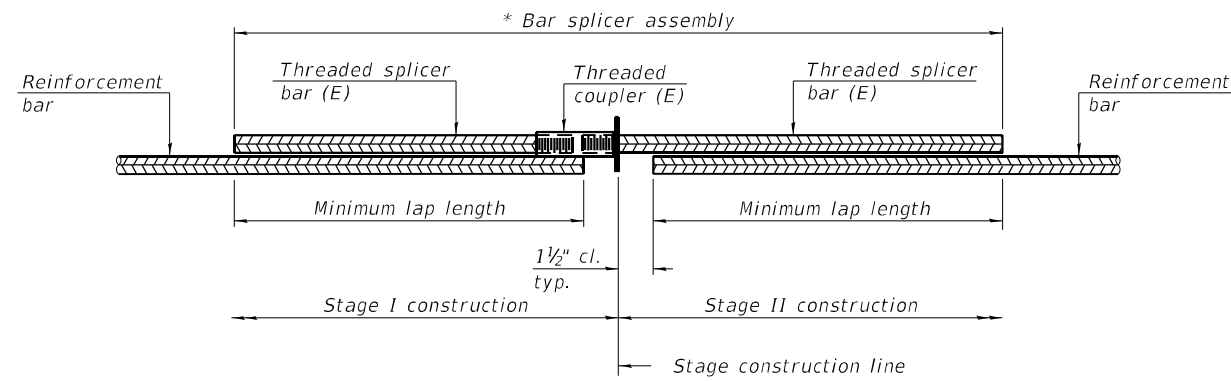
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DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 072-0149

SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 68H63	
		ILLINOIS	FED. AID PROJECT	



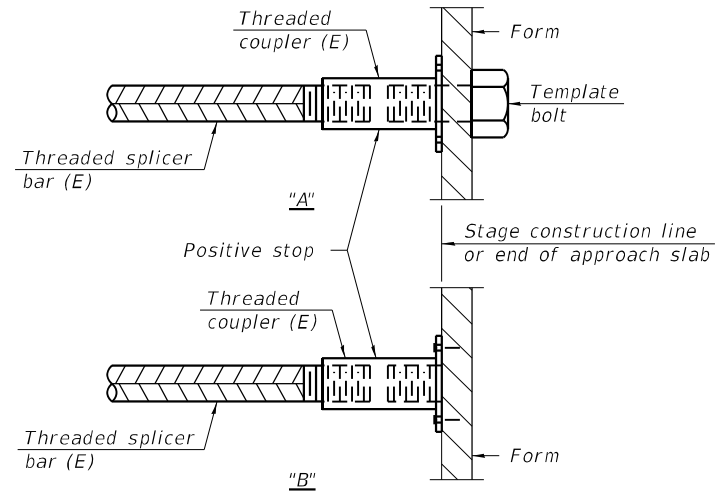
**STANDARD BAR SPLICER ASSEMBLY PLAN**

(All components shall be provided from one supplier)

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
E. Abutment	#5	8	2'-7"
E. Abutment	#6	3	3'-1"
W. Abutment	#5	8	2'-7"
W. Abutment	#6	3	3'-1"

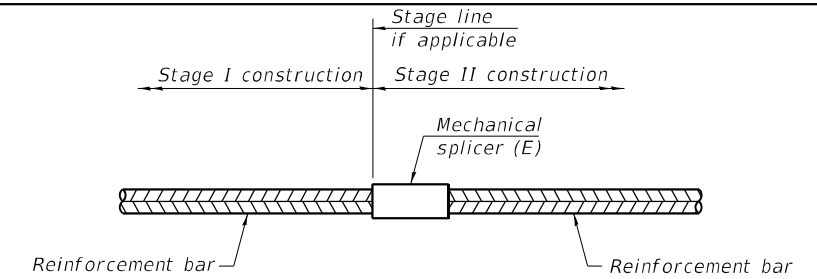


**INSTALLATION AND SETTING METHODS**

"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.

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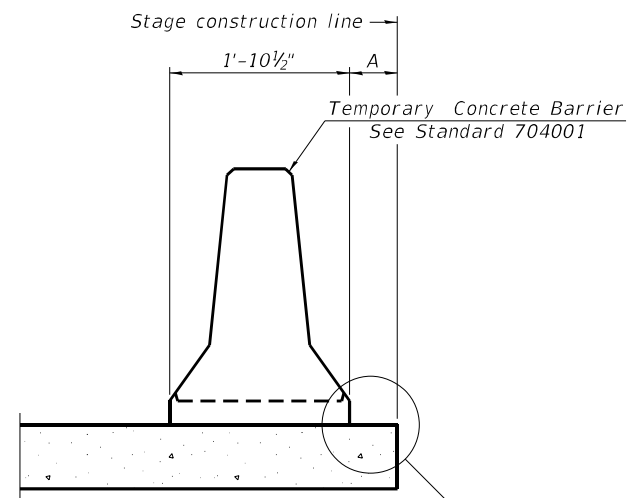
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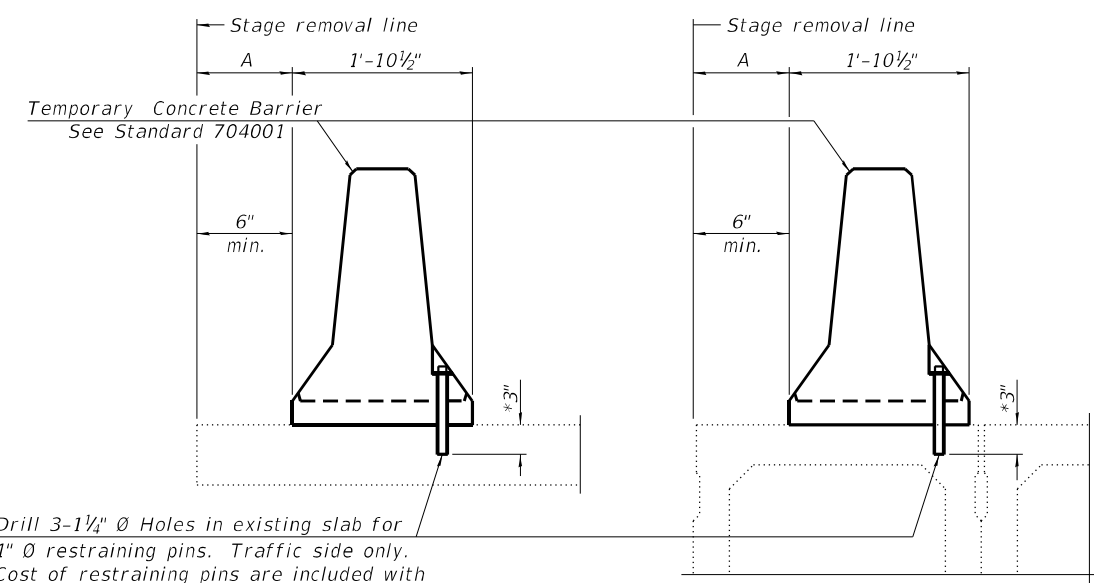
<b>BAR SPLICERS STRUCTURE NO. 072-0149</b>			
SCALE:	SHEET 12	OF 13 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BJR,BRR	PEORIA	29	28
				CONTRACT NO. 68H63
		ILLINOIS	FED. AID PROJECT	



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**

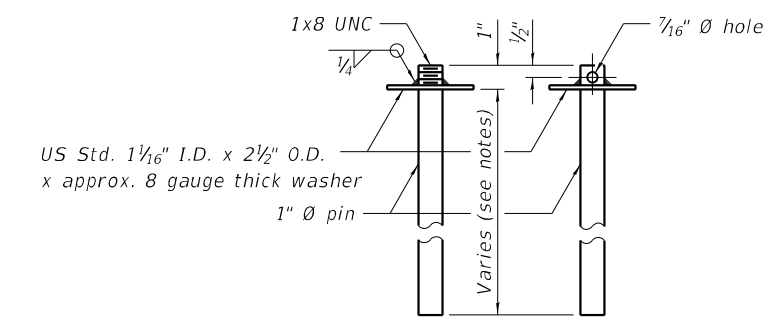


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

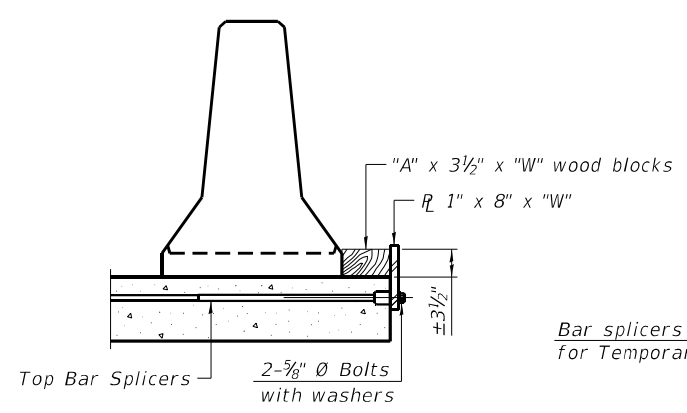
**EXISTING DECK BEAM**

**SECTIONS THRU SLAB OR DECK BEAM**

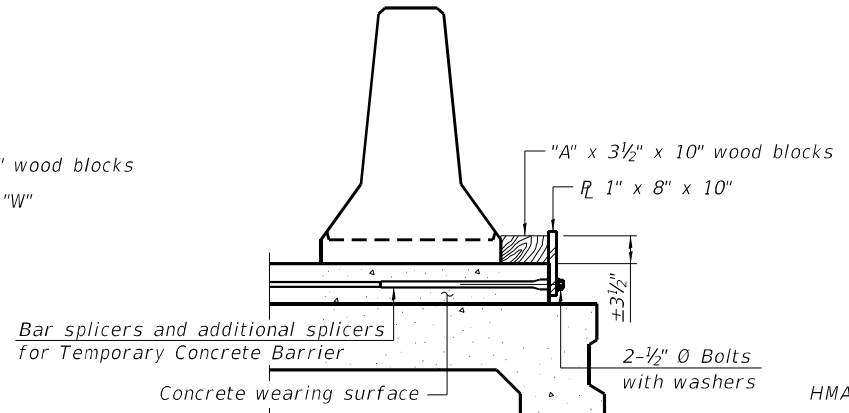


**RESTRAINING PIN**

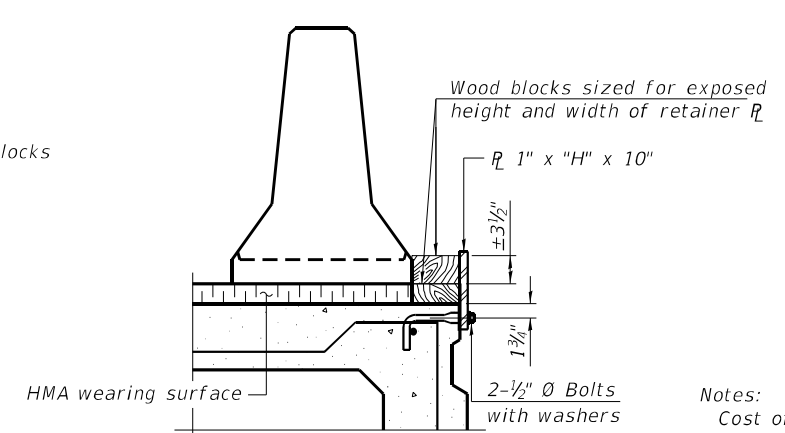
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



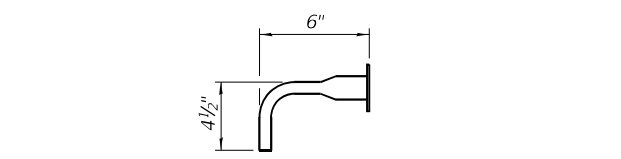
**DETAIL I**



**DETAIL II**



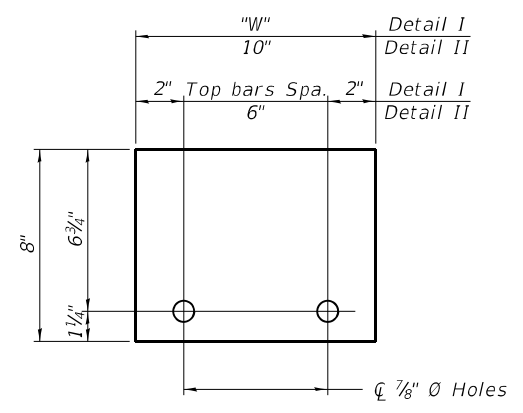
**DETAIL III**



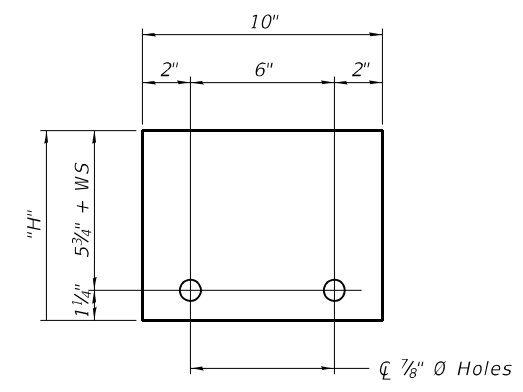
**BAR SPLICER FOR #4 BAR - DETAIL III**

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate C of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

**Detail I -** Installation for a new bridge deck or bridge slab.  
**Detail II -** Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III -** Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



**STEEL RETAINER R 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER R 1" x "H" x 10"**  
(Detail III)

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

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**TEMPORARY CONCRETE BARRIER  
 STRUCTURE NO. 072-0149**

SCALE: SHEET 13 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-1)BR,BRR	PEORIA	29	29
CONTRACT NO. 68H63				
ILLINOIS FED. AID PROJECT				