

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

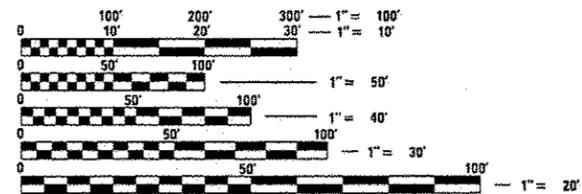
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
668	(28) BDR, BJR	SANGAMON	8	1
		ILLINOIS	CONTRACT NO. 72J72	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

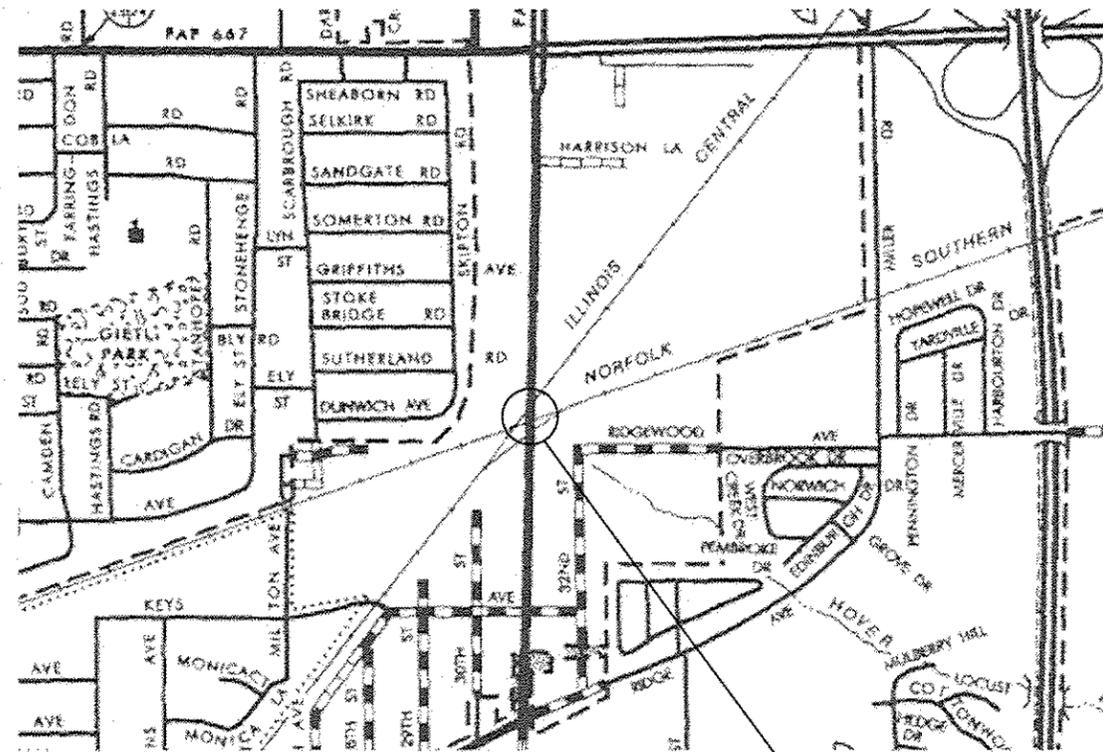
FAP ROUTE 668 (IL 29, DIRKSEN PKWY)
SECTION (28) BDR, BJR
PROJECT NHPP-0668(008)
BRIDGE DECK PATCHING
SANGAMON COUNTY

C-96-036-17



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 LOCATION:
SN 084-0073 & 084-0178
DIRKSEN PKWY OVER
NS RR & ICC RR
0.4 MI SOUTH OF SANGAMON AVE
N39.824748° W89.605023°

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY (217) 785-9290
DESIGNER: BEN WHELAN

NET LENGTH = 410 FT. = 0.078 MILE

CONTRACT NO. 72J72

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *20 March 2017*
[Signature] REGIONAL ENGINEER
May 12 2017
Maureen M. Addis, P.E. ENGINEER OF DESIGN AND ENVIRONMENT
May 12 2017
[Signature] DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, GENERAL NOTES, & SUMMARY OF QUANTITIES
- 3-4 TRAFFIC CONTROL PLAN
- 5-8 BRIDGE PLANS

HIGHWAY STANDARDS

- 001001-02
- 001006
- 701101-05
- 701106-02
- 701601-09
- 701901-06

GENERAL NOTES:

FULL DEPTH PATCHES SHOWN ON THE PLAN SHEETS IDENTIFY AREAS WHERE THE POTENTIAL FOR FULL DEPTH PATCHES IS GREATER. THE CONTRACTOR SHALL NOT INTENTIONALLY REMOVE SOUND CONCRETE IN ORDER TO MAKE PATCHES FULL DEPTH.

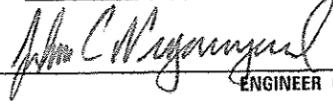
THE PATCH SIZES AND LOCATIONS SHOWN ON THE PLAN SHEETS ARE ESTIMATED. THE FINAL PATCH LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

FULL DEPTH PATCHES REMAINING OPEN OVERNIGHT SHALL BE COVERED WITH STEEL PLATES. THE COST OF FURNISHING, SETTING, AND REMOVING STEEL PLATES SHALL BE INCLUDED IN THE BID PRICE FOR 'DECK SLAB REPAIR (FULL DEPTH)' OF THE RESPECTIVE TYPE.

PPS NO.
6-01021-0000
80% FEDERAL
20% STATE
BRIDGE
0014
URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50102400	CONCRETE REMOVAL	CU YD	2	2
52000040	PREFORMED JOINT SEAL 3 1/2"	FOOT	72	72
67100100	MOBILIZATION	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	1	1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	4	4
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	152	152
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	72	72
Z0021912	SILICONE JOINT SEALER, 2.5"	FOOT	36	36
Z0041895	POLYMER CONCRETE	CU FT	18	18
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED March 6th 20 17

 ENGINEER OF OPERATIONS

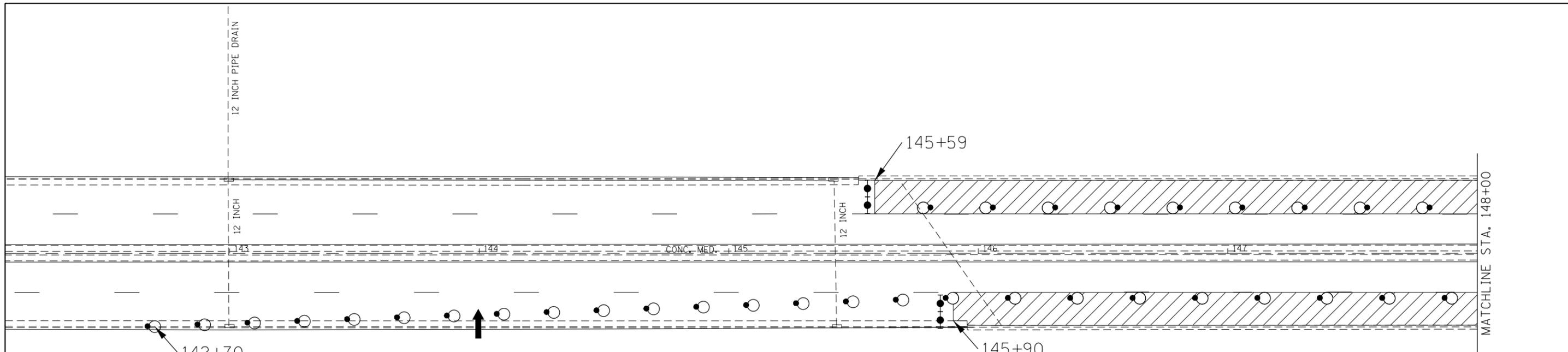
EXAMINED March 10 20 17

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED March 10 20 17

 ENGINEER OF PROGRAM DEVELOPMENT

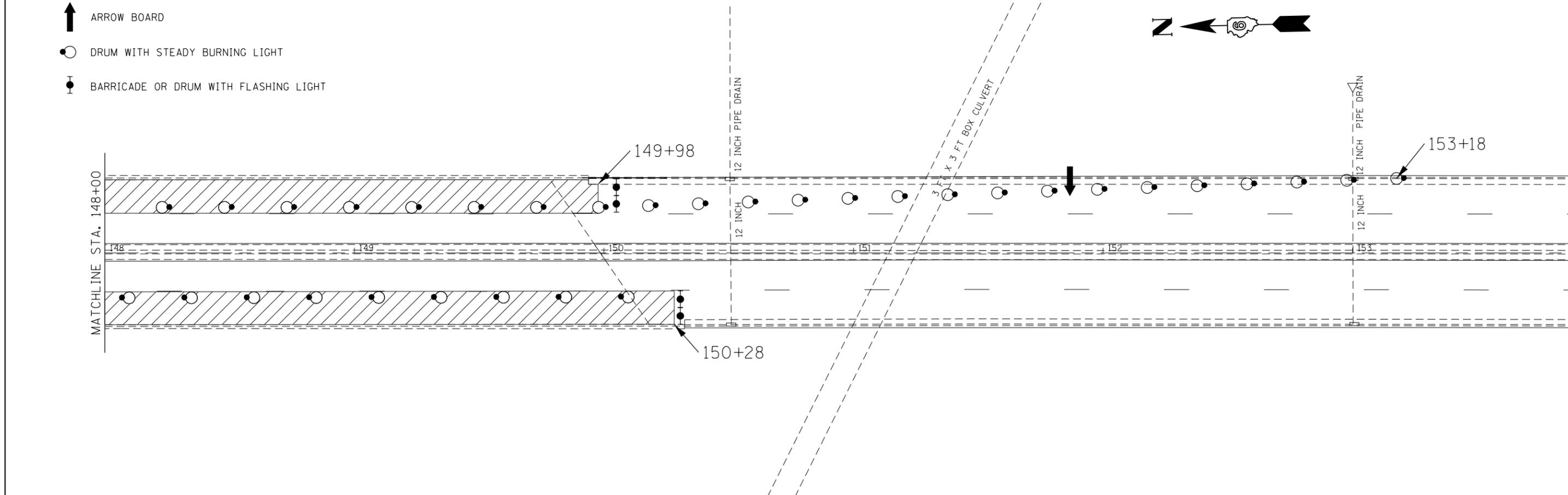
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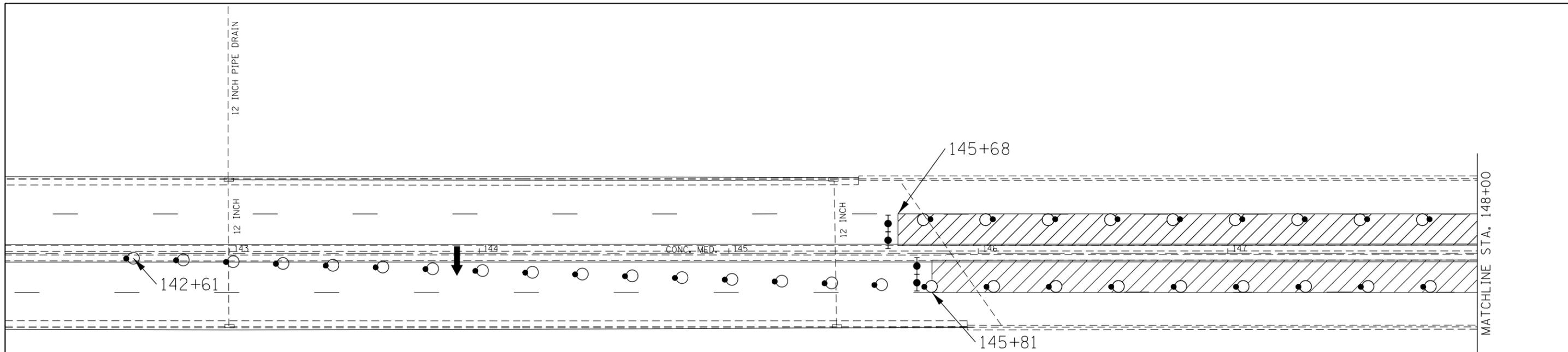
SYMBOLS

- WORK AREA
- SIGN
- ARROW BOARD
- DRUM WITH STEADY BURNING LIGHT
- BARRICADE OR DRUM WITH FLASHING LIGHT

- NOTES:
1. PREVIOUS RESURFACING IN THIS AREA WAS COMPLETED WITH METRIC STATIONING. IF METRIC STATIONING IS STAMPED IN THE PAVEMENT UTILIZE THE FOLLOWING CONVERSION. STA 7+500 = STA 145+39.61.
 2. THERE WAS ALSO A METRIC STATION EQUATION AT 145+83.57 WHICH WILL NEED TO BE ACCOUNTED FOR. THE EQUATION WAS AS FOLLOWS. STA 7+486.575 AH = STA 7+483.196 BK.
 3. TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701601 AND AS SHOWN ON THIS SHEET.
 4. ALL TRAFFIC CONTROL DEVICES NOT SHOWN ON THIS DETAIL SHALL BE PLACED PER STANDARD 701601.



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL PLAN STAGE I				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					SCALE: SHEET OF SHEETS STA. TO STA.				668	(28) BDR, BJR	SANGAMON	8	3
									CONTRACT NO. 72J72				
									ILLINOIS FED. AID PROJECT				

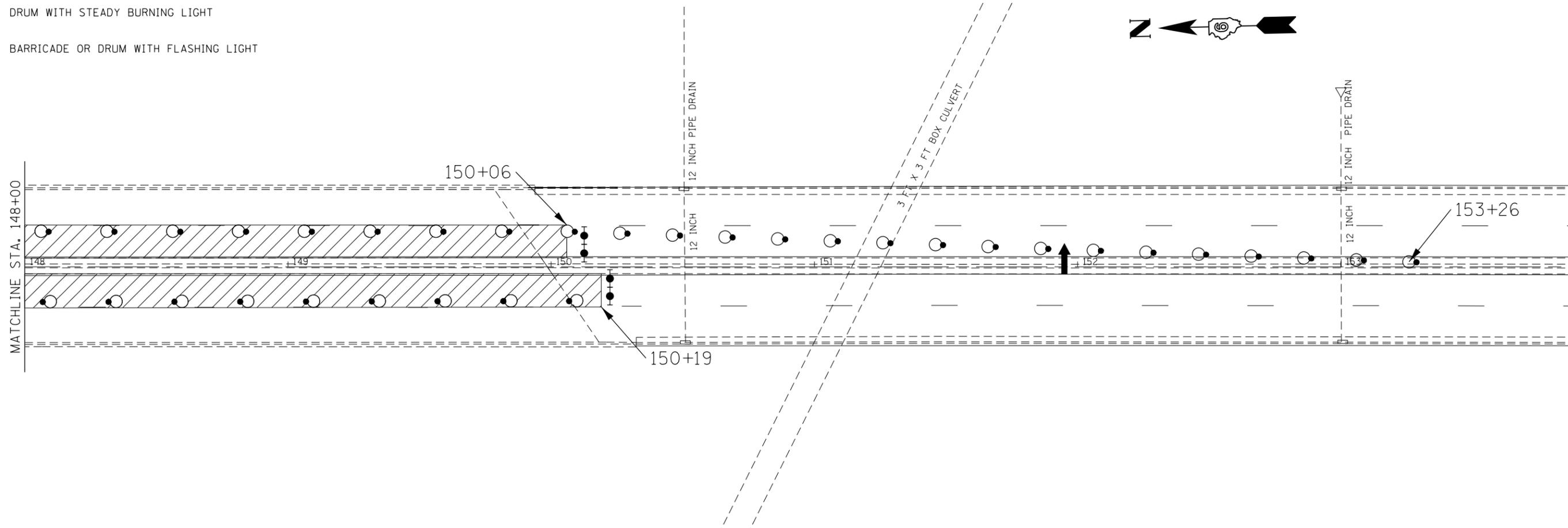


SYMBOLS

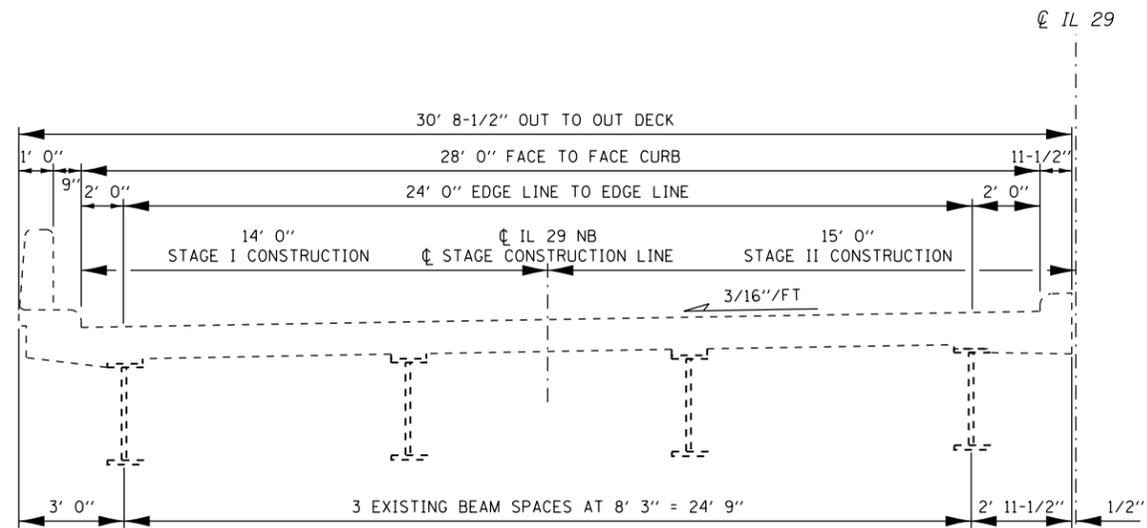
-  WORK AREA
-  SIGN
-  ARROW BOARD
-  DRUM WITH STEADY BURNING LIGHT
-  BARRICADE OR DRUM WITH FLASHING LIGHT

NOTES:

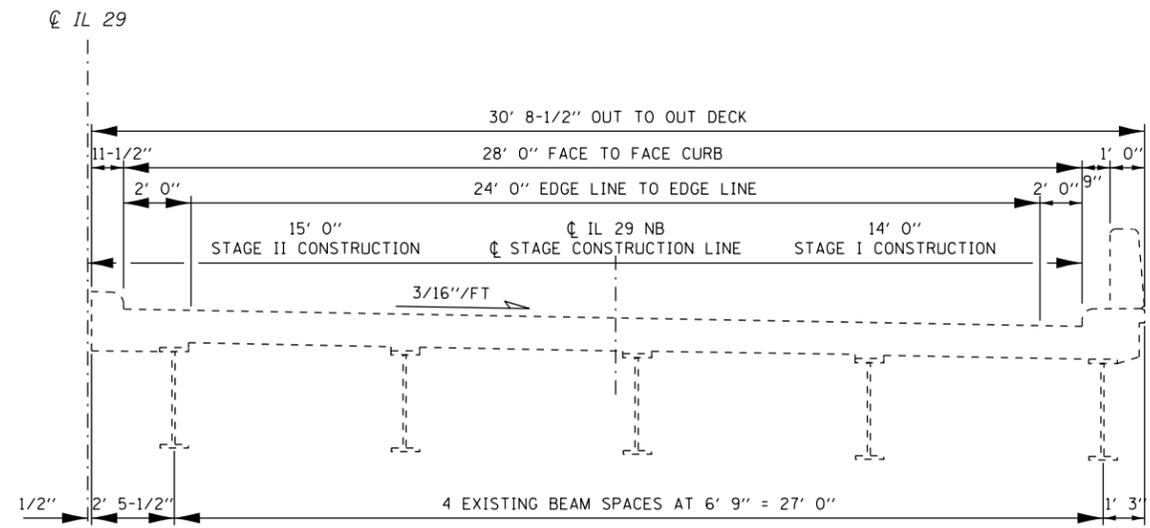
1. PREVIOUS RESURFACING IN THIS AREA WAS COMPLETED WITH METRIC STATIONING. IF METRIC STATIONING IS STAMPED IN THE PAVEMENT UTILIZE THE FOLLOWING CONVERSION. STA 7+500 = STA 145+39.61.
2. THERE WAS ALSO A METRIC STATION EQUATION AT 145+83.57 WHICH WILL NEED TO BE ACCOUNTED FOR. THE EQUATION WAS AS FOLLOWS. STA 7+486.575 AH = STA 7+483.196 BK.
3. TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701601 AND AS SHOWN ON THIS SHEET.
4. ALL TRAFFIC CONTROL DEVICES NOT SHOWN ON THIS DETAIL SHALL BE PLACED PER STANDARD 701601.
5. THE CONTRACTOR SHALL PLACE AND MAINTAIN BOTH STAGE II INSIDE LANE CLOSURES CONCURRENTLY TO PROVIDE A SAFE ESCAPE AREA FOR WORKERS.



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL PLAN STAGE II			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	\\Central\6\OPERATIONS\Bridges\plans_CAD\72J72 - 0840073 & 0178 patching\72J72\Drawings\Drawn Sheets.dgn	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	668	(28) BDR, BJR	SANGAMON	8	4
	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -												
	PLOT DATE = 3/21/2017														



NORTHBOUND CROSS SECTION
 LOOKING SOUTH



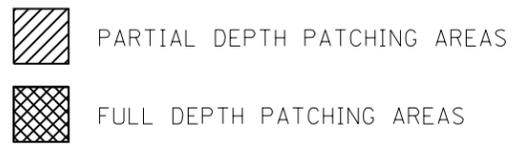
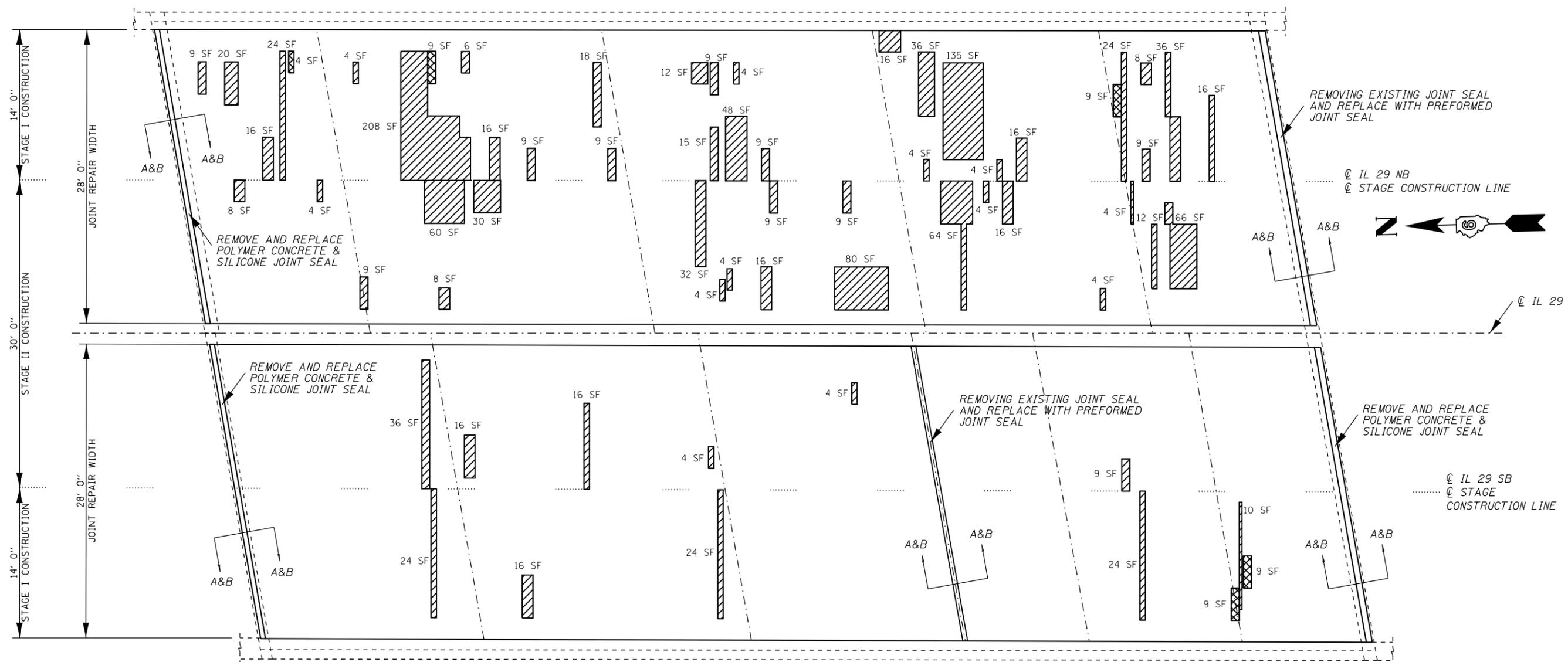
SOUTHBOUND CROSS SECTION
 LOOKING SOUTH

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
\\Central\6\OPERATIONS\Bridges\Bridges\Plans\CAD\72J72 - 0840073 & 0178 patching\72J72\Drawn Sheets.dgn		DRAWN	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/21/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
SN 084-0073 & 084-0178			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

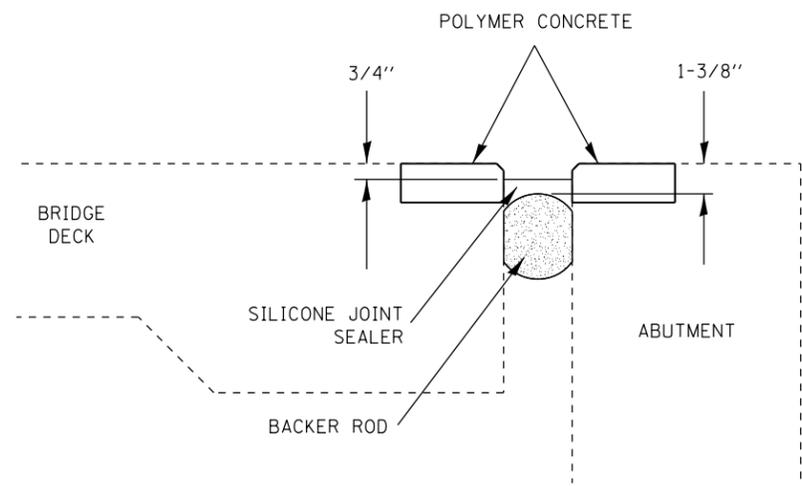
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
668	(28) BDR, BJR	SANGAMON	8	6
CONTRACT NO. 72J72				
ILLINOIS FED. AID PROJECT				



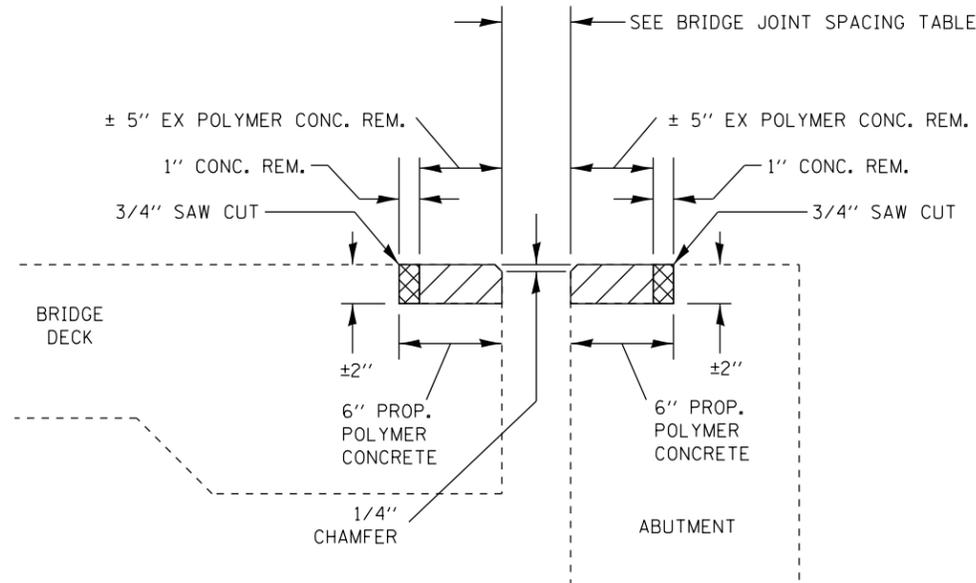
NOTES:

- IDENTIFIED PATCHING LOCATIONS ARE ESTIMATED FROM A DECK SURVEY PERFORMED ON 1/11/2017.
- THE ANTICIPATED FULL DEPTH REPAIR LOCATIONS INDICATE PORTIONS OF THE DECK THAT HAVE HIGHER POTENTIAL FOR REQUIRING FULL DEPTH REPAIRS. THE CONTRACTOR SHALL NOT INTENTIONALLY REMOVE SOUND CONCRETE IN ORDER TO MAKE PATCHES FULL DEPTH.
- THE ENGINEER SHALL SHOW ANY ACTUAL LOCATIONS OF FULL DEPTH REPAIRS ON AS-BUILT PLANS.
- PRIOR TO POURING THE NEW CONCRETE, 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 DECK SLAB REPAIR.
- EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, 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 DECK SLAB REPAIR.
- FOR PREFORMED JOINT SEAL THE CONTRACTOR SHALL UTILIZE THE PREFORMED, PRE-COMPRESSED, SILICONE COATED, SELF-EXPANDING SEALANT SYSTEM.
- SEE TABLE ON SHEET 4 OF 4 FOR JOINT SPACINGS
- REMOVAL OF THE EXISTING JOINT SEAL WILL NOT BE MEASURED FOR PAYMENT AND WILL BE CONSIDERED INCIDENTAL TO THE PREFORMED JOINT SEALER.
- THE CONTRACTOR SHALL SUSPEND ALL PATCH REMOVAL OPERATIONS AT ANY TIME A TRAIN PASSES UNDER THE BRIDGE.

FILE NAME = \\Central\6\OPERATIONS\Bridges\Bridges\ans_CAD\72J72 - 0840073 & 0178 patching\72J72\Drawings\Sheets.dgn	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PATCHING PLAN SN 084-0073 & 084-0178	F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			668	(28) BDR, BUR	SANGAMON	8	7
Default	PLOT DATE = 3/21/2017	DATE -	REVISED -	SCALE:	SHEET 3 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 72J72		
						ILLINOIS FED. AID PROJECT				



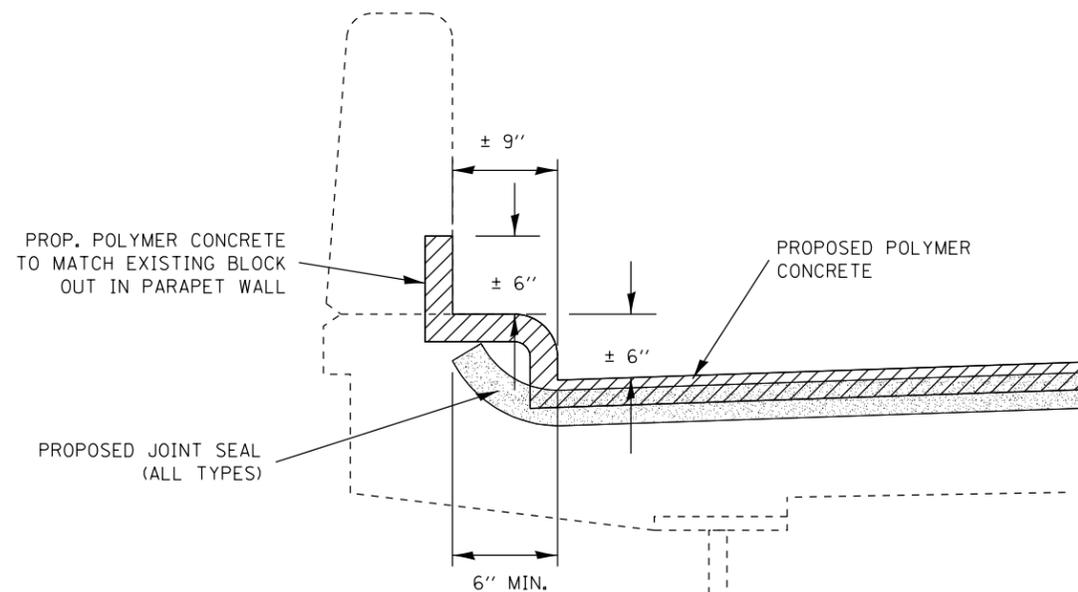
**SECTION A-A
SILICONE JOINT SEALER DETAIL ***



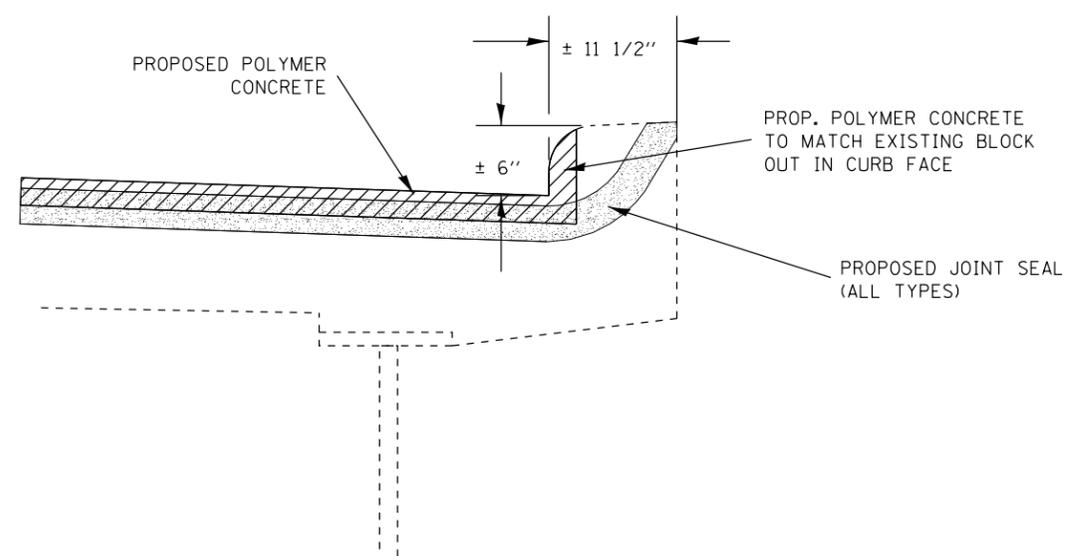
**SECTION B-B
PROPOSED POLYMER CONCRETE
CROSS SECTION ***

BRIDGE JOINT SPACING TABLE	
LOCATION	JOINT SPACING @ 50°F
NORTHBOUND NORTH ABUTMENT	2 1/2"
NORTHBOUND SOUTH ABUTMENT	3 1/2"
SOUTHBOUND NORTH ABUTMENT	2"
SOUTHBOUND PIER 3	3 1/2"
SOUTHBOUND SOUTH ABUTMENT	2"

* BOTH SIDES OF PIER JOINT SIMILAR TO BRIDGE DECK PORTION OF DETAIL



**TYPICAL PARAPET CROSS SECTION
JOINT SEALER END TREATMENT**



**TYPICAL CURB CROSS SECTION
JOINT SEALER END TREATMENT**

NOTES:

1/4" CHAMFER MAY BE ACHIEVED BY GRINDING AFTER POLYMER CONCRETE HAS CURED.

ANY STEEL ANCHORING STUDS ENCOUNTERED IN THE JOINT REMOVAL AREA SHALL BE CUT OFF FLUSH WITH THE EXISTING CONCRETE, COST TO BE INCLUDED IN THE BID PRICE FOR CONCRETE REMOVAL.

JOINT WIDTHS SPECIFIED IN PLANS ARE AT 50° F. THE CONTRACTOR SHALL INSTALL BACKER ROD HAVING A DIAMETER 25% GREATER THAN THE JOINT OPENING AT THE TIME OF INSTALLATION.

FOR PREFORMED JOINT SEAL THE CONTRACTOR SHALL UTILIZE THE PREFORMED, PRE-COMPRESSED, SILICONE COATED, SELF-EXPANDING SEALANT SYSTEM. DIMENSIONS AND INSTALLATION CLEARANCES SHALL BE AS DIRECTED BY THE MANUFACTURER.

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
\\Central\6\OPERATIONS\Bridges\Bridges\plans_CAD\72J72 - 0840073 & 0178 patching\72J72\Drawings\Sheets.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 3/21/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPAIR DETAILS
SN 084-0073 & 084-0178**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
668	(28) BDR, BJR	SANGAMON	8	8
CONTRACT NO. 72J72				
ILLINOIS FED. AID PROJECT				