

07-29-2016 LETTING ITEM 095

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

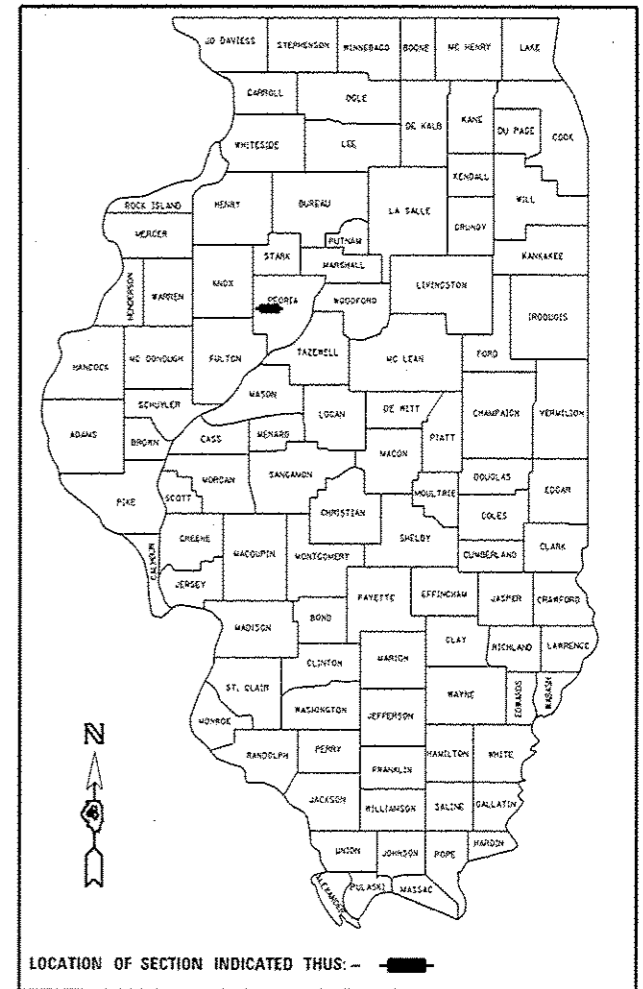
PROPOSED HIGHWAY PLANS

FAU 6659 (FARMINGTON RD.)
SECTION (11BR)B-R
EMERGENCY DECK
BEAM REM./REPL.
PEORIA COUNTY

C-94-078-16
R7 E

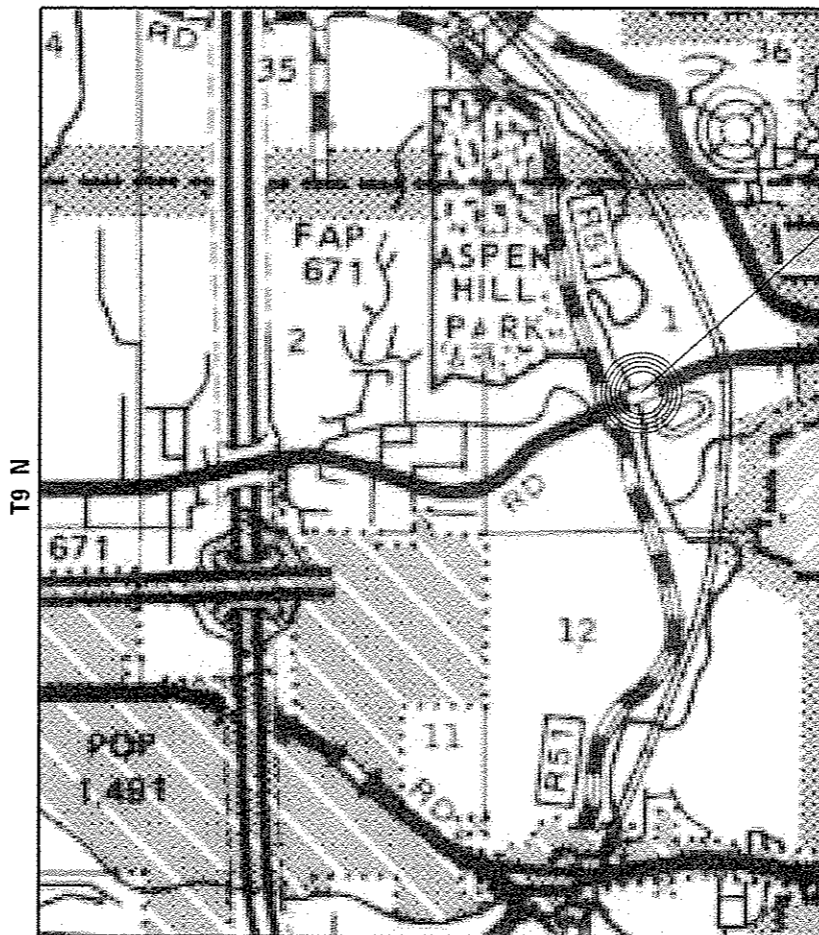
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	(11BR)B-R	PEORIA	17	1
EMERGENCY DECK BEAM REPL.		ILLINOIS	CONTRACT NO. 68D35	

D-94-046-16



SN.072-0063
STA. 269+00

PROJECT CONSISTS OF REMOVAL & REPLACEMENT OF SEVEN DECK BEAMS ON STRUCTURE SN.072-0063, CARRYING FARMINGTON ROAD OVER KICKAPOO CREEK

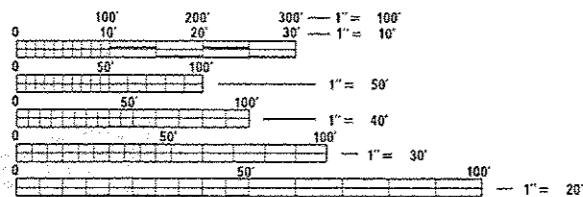


INDEX OF SHEETS:

1. COVER SHEET
2. GENERAL NOTES & COMMITMENTS
3. SUMMARY OF QUANTITIES
4. EXISTING TYPICALS
5. SCHEDULE OF QUANTITIES
6. PLAN LOCATION & ROW
- 7-11. DETOUR SIGNING DETAILS
- 12-17. STRUCTURE DETAILS

STANDARDS:

- | | |
|-----------|-----------|
| 701001-02 | 780001-05 |
| 701006-05 | BLR21-9 |
| 701301-04 | |
| 701901-05 | |



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: CHRISTOPHER MAUSHARD
PROJECT MANAGER: MIKE LEWIS

CONTRACT NO. 68D35 CAT. NO. 035418-00D

PROJECT DESIGNER: CLARK JONES
PHONE NO: (309) 671-3452

PROJECT ENGINEER: CHRISTOPHER MAUSHARD
PHONE NO: (309) 671-3453

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 20 2016

Rando Tama
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 1 2016
Christopher M. Maushard
ENGINEER OF DESIGN AND ENVIRONMENT

July 1 2016
Michelle Allen
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

GENERAL NOTES

AVAILABILITY OF ELECTRONIC FILES

MicroStation and GEOPAK files of this project will be made available to the Contractor after contract award. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the sole responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form * D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

BRIDGE OVERLAY NOTIFICATION

After placement of the bridge deck overlay, the Resident Engineer shall notify the District Bridge Maintenance Engineer of the *as constructed* milling depth and overlay thickness for updating the Illinois Highway Information System.

SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

JOB SPECIFIC NOTES

SIGNING

There shall be a total of (4) Changeable Message Signs for this project. Locations to be determined on Traffic Control Special detour sheets.

PAVEMENT MIX SPECIFICATION

The following mixture requirements are applicable as replacement for the existing HMA Surface Removal quantity on the bridge deck.

MIXTURE USE(S):	SURFACE COURSE (TWO LIFTS)
AC/PG:	PG 64-22
RAP% (MAX): **	15% Max
Design Air Voids:	4.0% @ N=50
Mixture Composition: (Mixture Gradation)	IL 9.5
Friction Aggregate:	Mixture D
Quality Management Program:	OC / OA

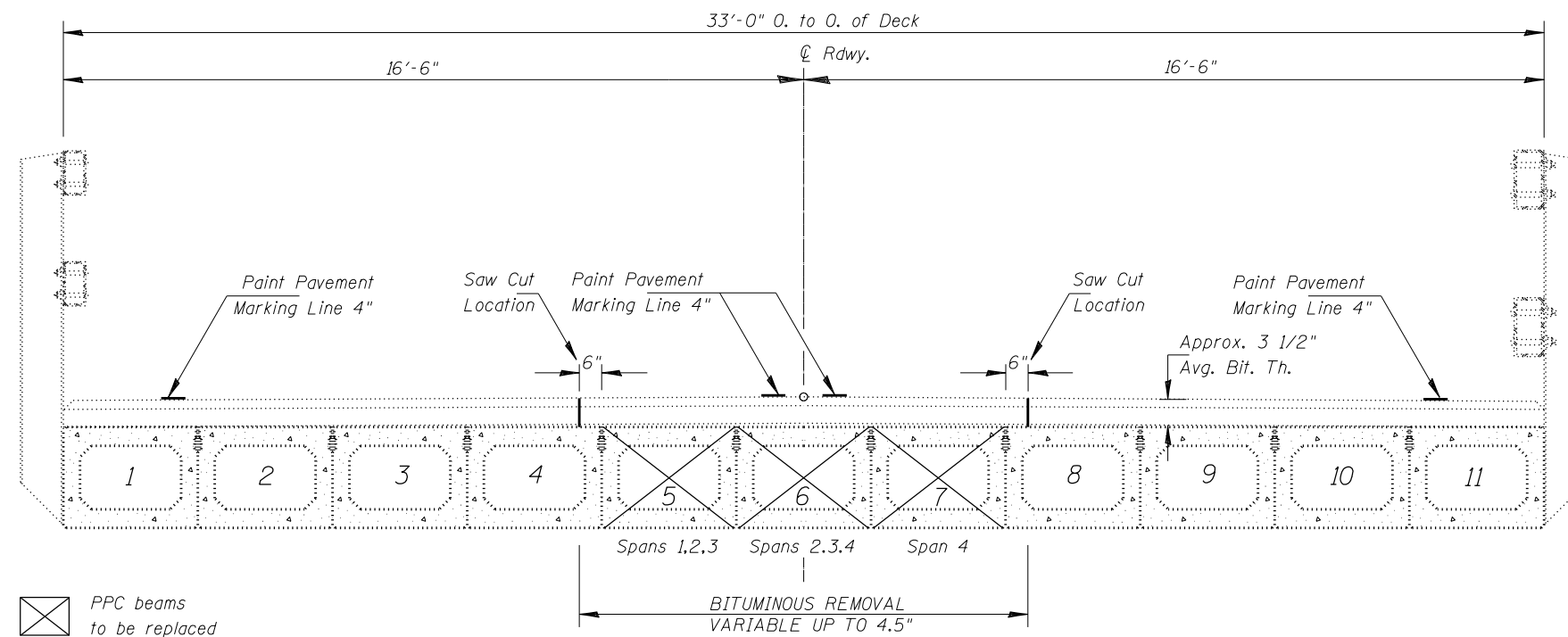
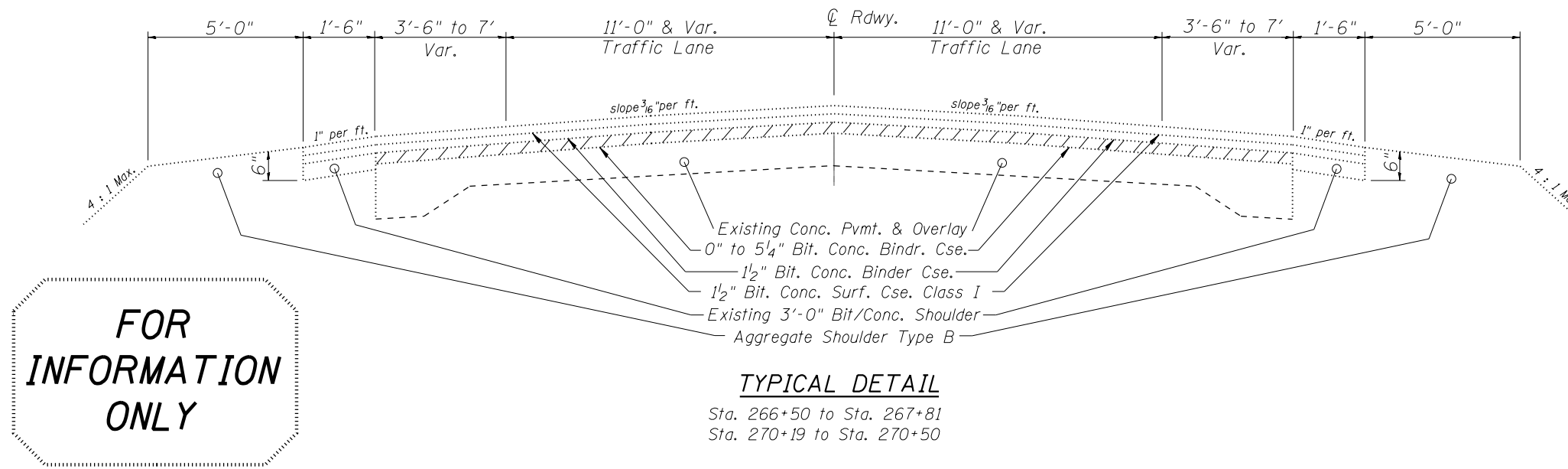
** If RAP option is selected, the asphalt cement grade may need to be adjusted by the Materials Engineer.

FILE NAME : 072-0063.dgn	USER NAME : kashbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & COMMITMENTS SN. 072-0063		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE * 200.0000' / in.	DRAWN - CEJ	REVISED -		6659	(11)-BR18-R	PEORIA	17	2		
	PLOT DATE * 6/28/2015	CHECKED - GEM	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		EMERGENCY PPC BEAM REPAIR		CONTRACT NO. 68035		
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE	
				URBAN	
				100% STATE	BRIDGE
					0014
				SN. 072-0063	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	LB	82		82
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	25		25
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SOFT	465		465
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SOFT	766		766
58100200	WATERPROOFING MEMBRANE SYSTEM	SOYD	182.6		182.6
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	652		652
67100100	MOBILIZATION	LSUM	1		1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1		1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	952		952
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SOFT	1250		1250
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1		1
X7015005	CHANGEABLE MESSAGE SIGN	CALDA	120		120
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SOYD	182.6		182.6

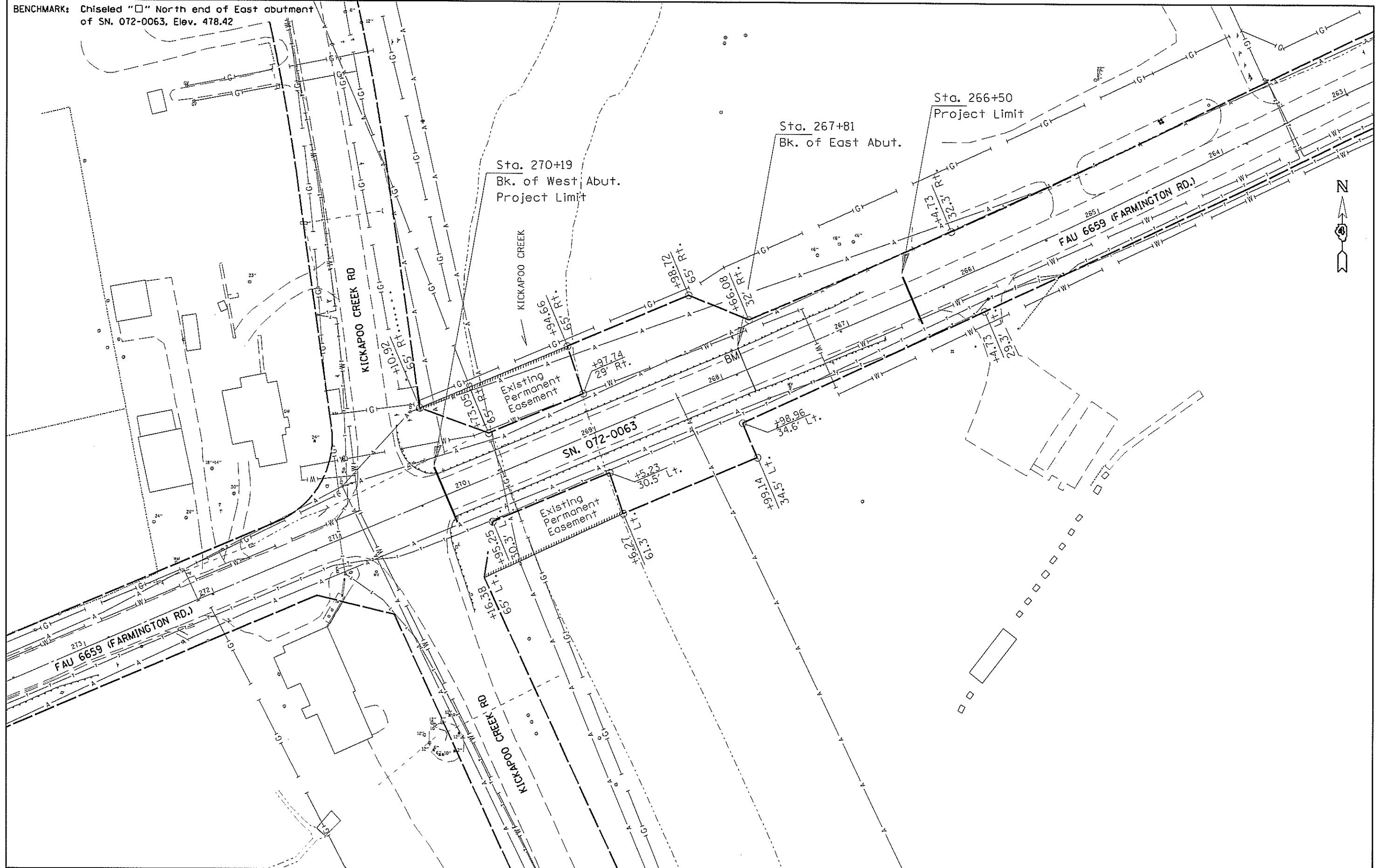
13

* SPECIALTY ITEM



FILE NAME = 072-0063.dgn	USER NAME = keithbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICALS SN. 072-0063	F.A.U. RTE. 6659	SECTION (11BR)B-R	COUNTY PEORIA	TOTAL SHEETS 17	SHEET NO. 4
Default	PLOT SCALE = 200.0000' / in.	CHECKED - CEM	REVISED -			EMERGENCY PPC BEAM REPAIR	CONTRACT NO. 68D35			
	PLOT DATE = 6/20/2016	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET OF SHEETS STA. TO STA.			

BENCHMARK: Chiseled "□" North end of East abutment of SN. 072-0063, Elev. 478.42



FILE NAME = 072-0063.dgn	USER NAME = jonesce	DESIGNED -	REVISED -
Default	PLOT SCALE = 64.3701' / in.	DRAWN - CEJ	REVISED -
	PLOT DATE = 6/20/2016	CHECKED - CEM	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL LOCATION	
SN. 072-0063	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	11-BR/B-R	PEORIA	17	6
EMERGENCY PPC BEAM REPAIR			CONTRACT NO. 68035	
ILLINOIS FED. AID PROJECT				

PROJECT GENERAL NOTES

SEVEN (7) CALENDAR DAYS PRIOR TO CLOSING STRUCTURE- 2 PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED ON EACH SIDE OF STRUCTURE ON FARMINGTON ROAD AND 2 PCMS SHALL BE PLACED ON KICKAPOO CREEK ROAD- ONE ON THE NORTH LEG AND ONE ON THE SOUTH LEG. **THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PAID FOR AS CHANGEABLE MESSAGE SIGNS.**

THE MESSAGE SHALL BE AS FOLLOWS:

FARMNGTN	CLOSING
ROAD	JULY 4
BRIDGE	3:00 PM

(DATE AND TIME ARE ARBITRARY)

THE CONTRACTOR SHALL NOT HAVE THE STRUCTURE CLOSED BETWEEN THE HOURS OF 6:00 AM TO 8:30 AM ON THE DATE SET (CLOSURE/DETOUR MAY BE COMPLETED PRIOR TO 6:00 AM) AND HAVE THE FULL CLOSURE/DETOUR IN PLACE NO LATER THAN 3:00 PM ON THE DATE SET. THE INTENT IS TO NOT CLOSE THE STRUCTURE DURING RUSH HOUR TIMES WHEN HIGHER TRAFFIC VOLUMES ARE PRESENT.

ALL DETOUR/CLOSURE SIGNAGE SHALL BE COMPLETELY INSTALLED PRIOR TO CLOSING THE STRUCTURE.

PCMS SHALL BE MOVED IMMEDIATELY PRIOR THE CLOSING OF THE BRIDGE. PCMS SHALL BE RELOCATED AS FOLLOWS:

- 1) TOP OF FARMINGTON ROAD HILL 2) TOP OF STERLING AVE. 3) WEST OF N. PARK ROAD

STOP	BE
SIGNS	PREPARED
AHEAD	TO STOP

FARMNGTN	CLOSED
ROAD	PAST
BRIDGE	SPEEDWAY

FARMNGTN	CLOSED
ROAD	PAST
BRIDGE	SPEEDWAY

- 4) TOP OF AIRPORT ROAD BY 474

FARMNGTN	CLOSED
ROAD	PRIOR TO
BRIDGE	SPEEDWAY

TEMP STAND MOUNTS SHALL BE ALLOWED WITH THE FOLLOWING EXCEPTION: "BE PREPARED TO STOP" , "STOP AHEAD", AND "STOP SIGNS" SHALL BE POST MOUNTED ON FARMINGTON ROAD. SIGNAGE SHALL NOT BE LOCATED ON ANY SIDEWALK OR CAUSE ANY CONFLICT WITH PEDESTRIAN MOVEMENT. ALL SIGNAGE SHALL BE A MINIMUM OF 5' ABOVE THE TRAVELLED WAY.

PRIOR TO RETURNING FARMINGTON ROAD TO THE ORIGINAL TRAFFIC PATTERN AND OPENING TO TRAFFIC, 2 PCMS SHALL BE RELOCATED TO THE NORTH AND SOUTH LEG OF KICKAPOO CREEK ROAD AND DISPLAY THE FOLLOWING MESSAGE FOR 7 CALENDAR DAYS:

CROSS	DOES
TRAFFIC	NOT
AHEAD	STOP

PUBLIC NOTIFICATIONS

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING ENTITIES, IN WRITING BY CERTIFIED MAIL, A MINIMUM OF TEN DAYS PRIOR TO CLOSING THE STRUCTURE:

- ILLINOIS STATE POLICE-GERMANTOWN HILLS
- PEORIA COUNTY SHERIFFS DEPARTMENT
- PLEASANT VALLEY SCHOOL
- PLEASANT HILL SCHOOL
- ADVANCED MEDICAL TRANSPORT (AMT)
- LIMESTONE TOWNSHIP FIRE PROTECTION DISTRICT-CENTRAL HOUSE
- NORWOOD PRIMARY SCHOOL
- NORWOOD ELEMENTARY SCHOOL
- UNITED STATES POSTAL SERVICE
- WEST PEORIA FIRE DEPARTMENT
- PEORIA FIRE DEPARTMENT
- PEORIA COUNTY HIGHWAY DEPARTMENT
- LIMESTONE COMMUNITY HIGH SCHOOL
- PEORIA POLICE DEPARTMENT
- CITY OF PEORIA STREET DEPARTMENT

THE LETTER SHALL BE ON COMPANY LETTERHEAD AND PROVIDE A BRIEF EXPLANATION OF WORK TO BE COMPLETED, ANTICIPATED CLOSURE DATES AND CLOSURE LOCATION, AND INFORM RECIPIENT THERE WILL BE A MARKED DETOUR IN PLACE. THE LETTER SHALL ALSO PROVIDE A CONTACT PHONE NUMBER FOR ANY QUESTIONS OR CONCERNS. THE RESIDENT ENGINEER SHALL BE SATISFIED SUCH CONTACTS HAVE BEEN MADE. ANY CONCERNS RECEIVED SHALL BE DISCUSSED AMONG THE CONTRACTOR AND RESIDENT ENGINEER AND RESOLVED, AS BEST AS POSSIBLE, PRIOR TO THE CLOSURE/DETOUR.

BASIS OF PAYMENT

ROAD CLOSED AHEAD SIGNS AND DEVICES REQUIRED PER BLR-21 AT THE CLOSURE SHALL BE PAID ACCORDING TO BLR- 21.

ALL OTHER CLOSURE/DETOUR SIGNAGE AND DEVICES SHOWN SHALL BE PAID ACCORDING TO TRAFFIC CONTROL SPECIAL. TRAFFIC CONTROL SPECIAL SHALL ALSO INCLUDE THE FOLLOWING: PLACEMENT AND REMOVAL OF THE TEMPORARY RUMBLE STRIPS AND STOP BAR, PLACEMENT/MAINTENANCE/AND REMOVAL OF SIGNAGE AND DEVICES AND STD. 701301 AS REQUIRED.

TRAFFIC CONTROL SPECIAL SHALL ALSO INCLUDE WORK NECESSARY FOR ALTERING THE STOP SIGNS AND REPLACING TO THEIR ORIGINAL CONFIGURATION AT THE INTERSECTION OF FARMINGTON ROAD AND KICKAPOO CREEK ROAD.

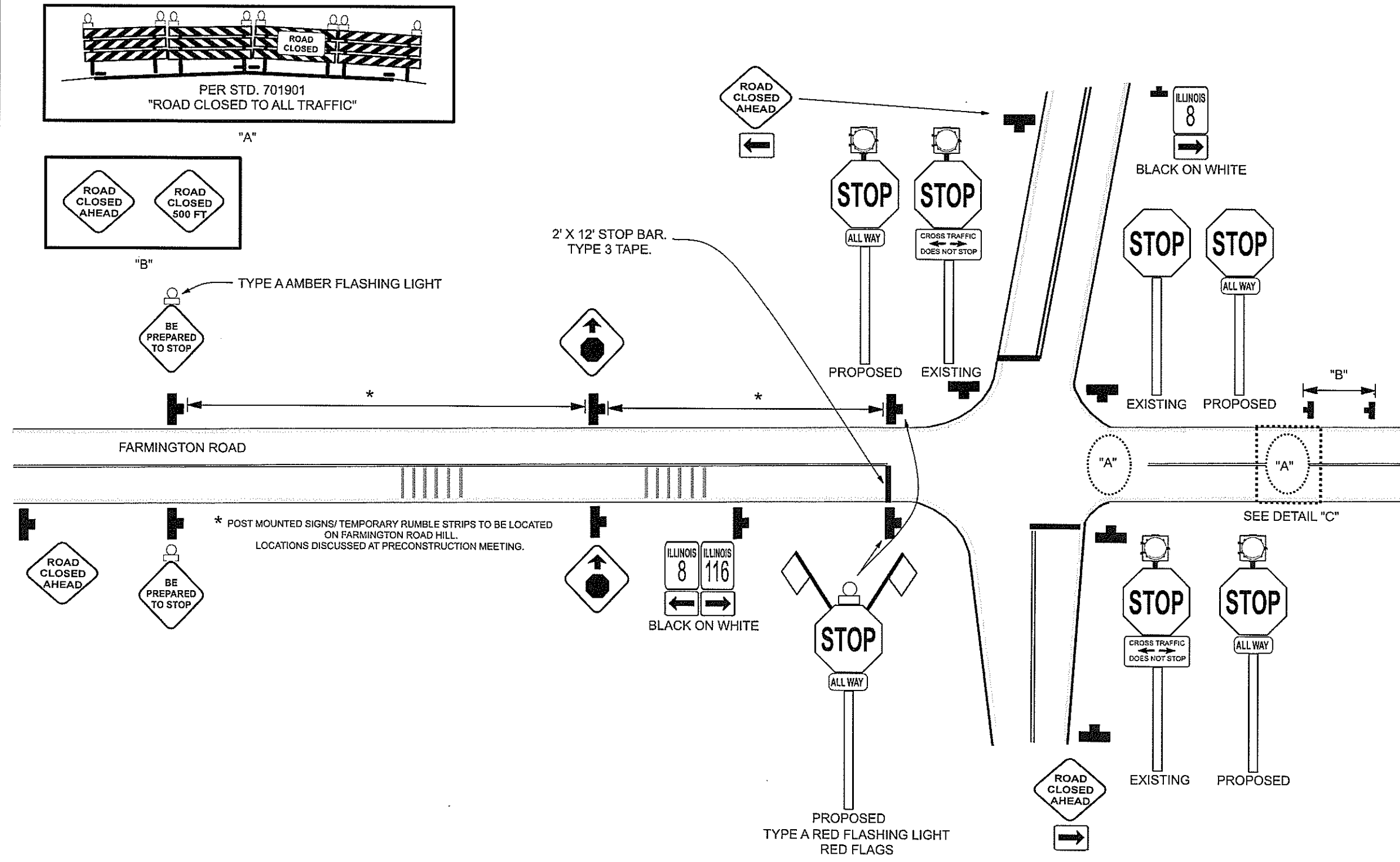
CHANGEABLE MESSAGE SIGN SHALL INCLUDE THE PROVIDING, PRESETTING, AND RELOCATING AS DESCRIBED IN THE PLAN SHEETS.

FILE NAME = 072-0063.dgn	USER NAME = jonesco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING DETAILS SN. 072-0063	F.A.J. RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 205.9925' / in.	DRAWN - CEJ	REVISED -			6659	111-BR/B-R	PEORIA	17	T
	PLOT DATE = 6/20/2016	CHECKED - CEM	REVISED -			EMERGENCY PPC BEAM REPAIR		CONTRACT NO. 68035		
						ILLINOIS FED. AID PROJECT				

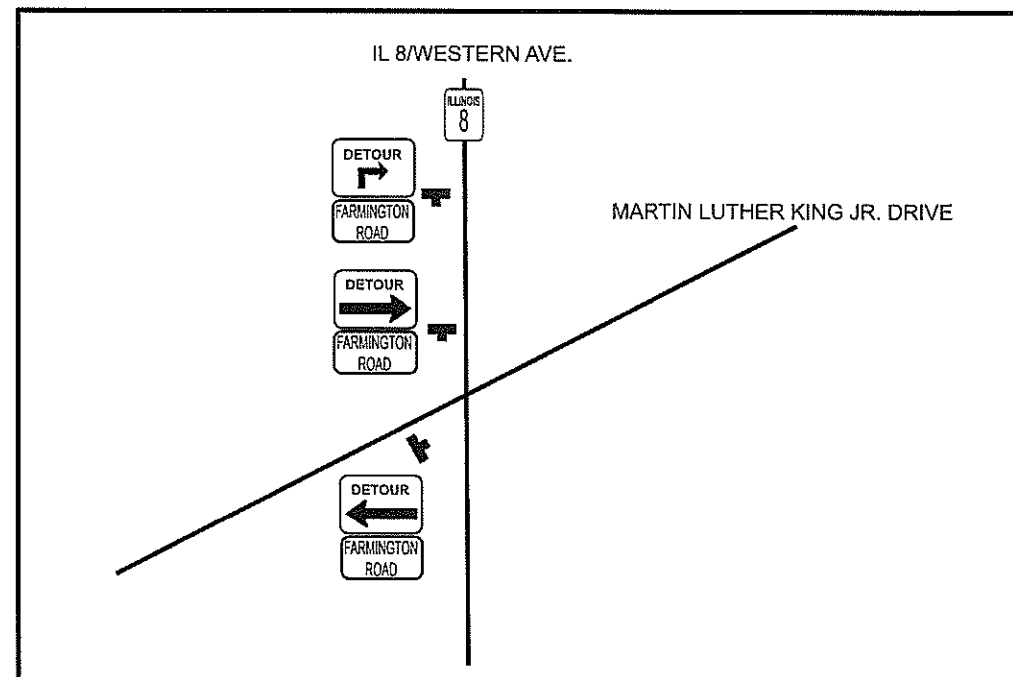
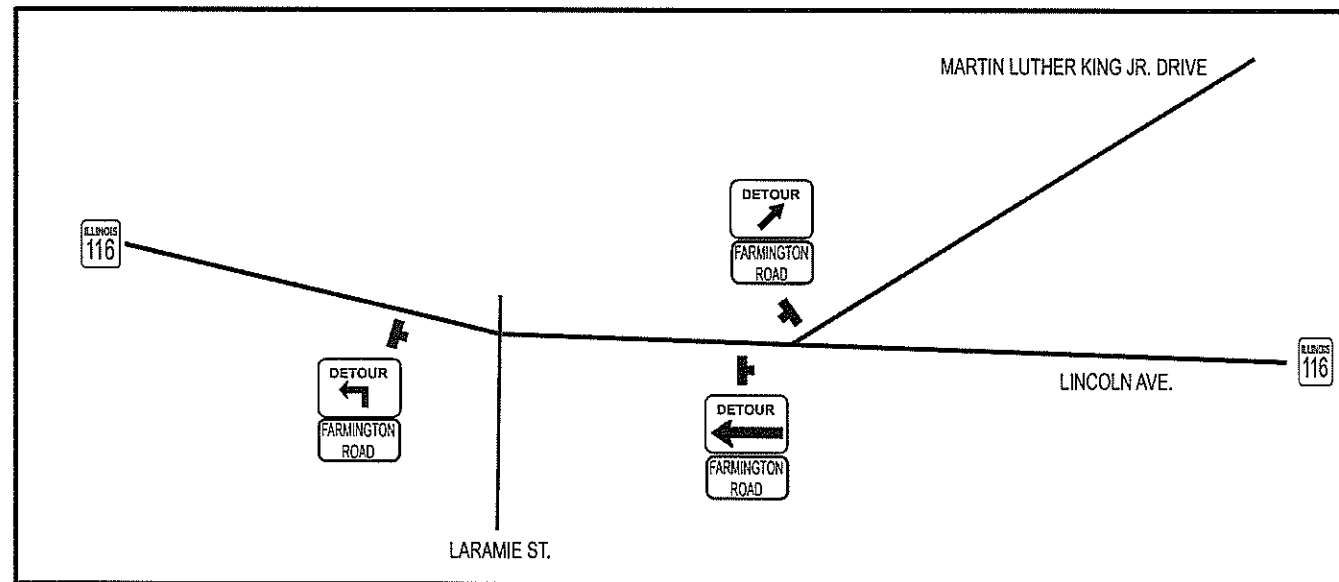
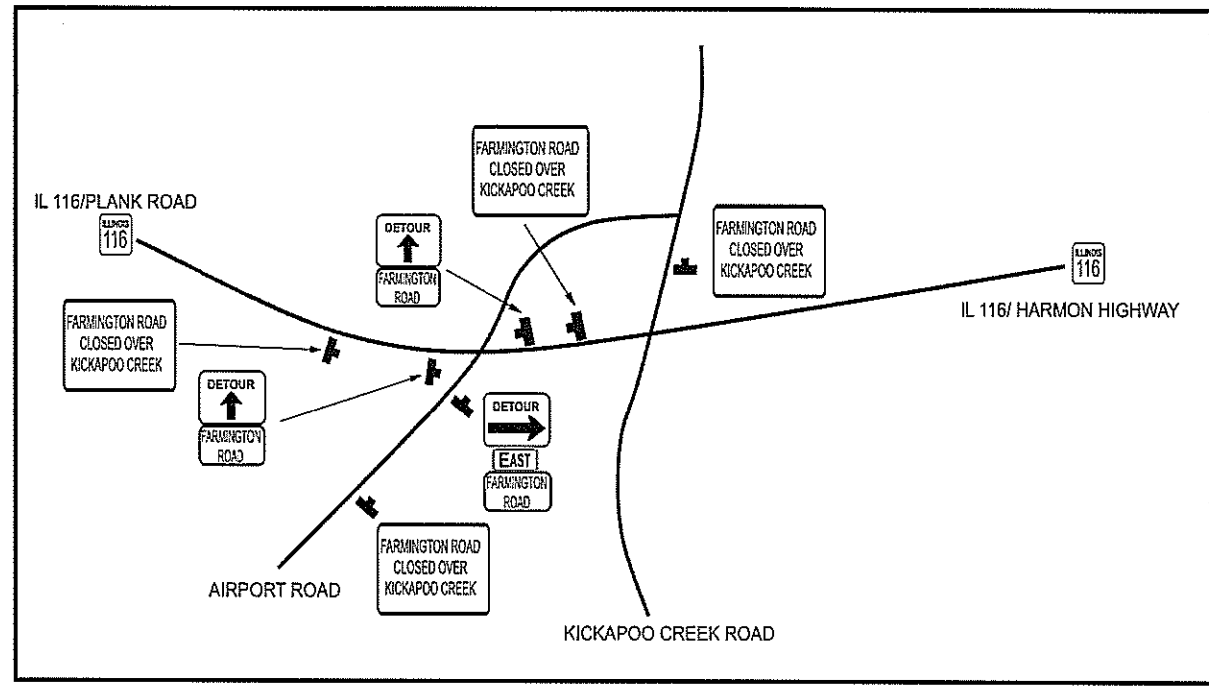
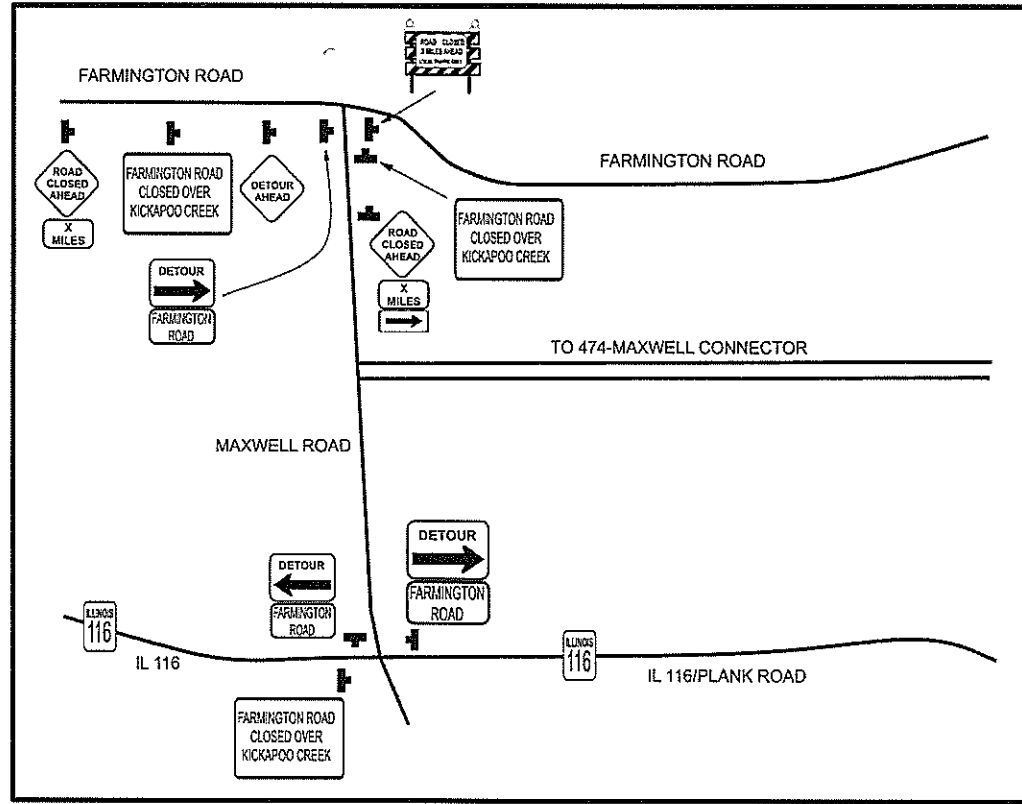


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	PLT DATE = 6/20/2016	CHECKED - CEM	REVISED -									EMERGENCY PPC BEAM REPAIR	CONTRACT NO. 68035			
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

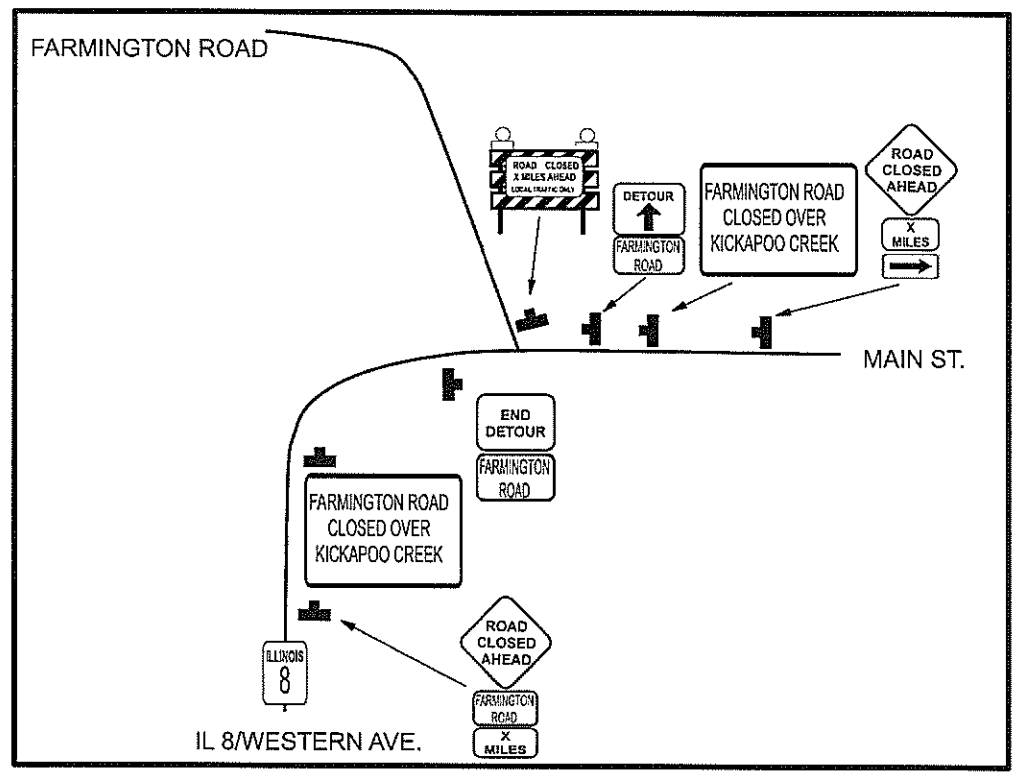
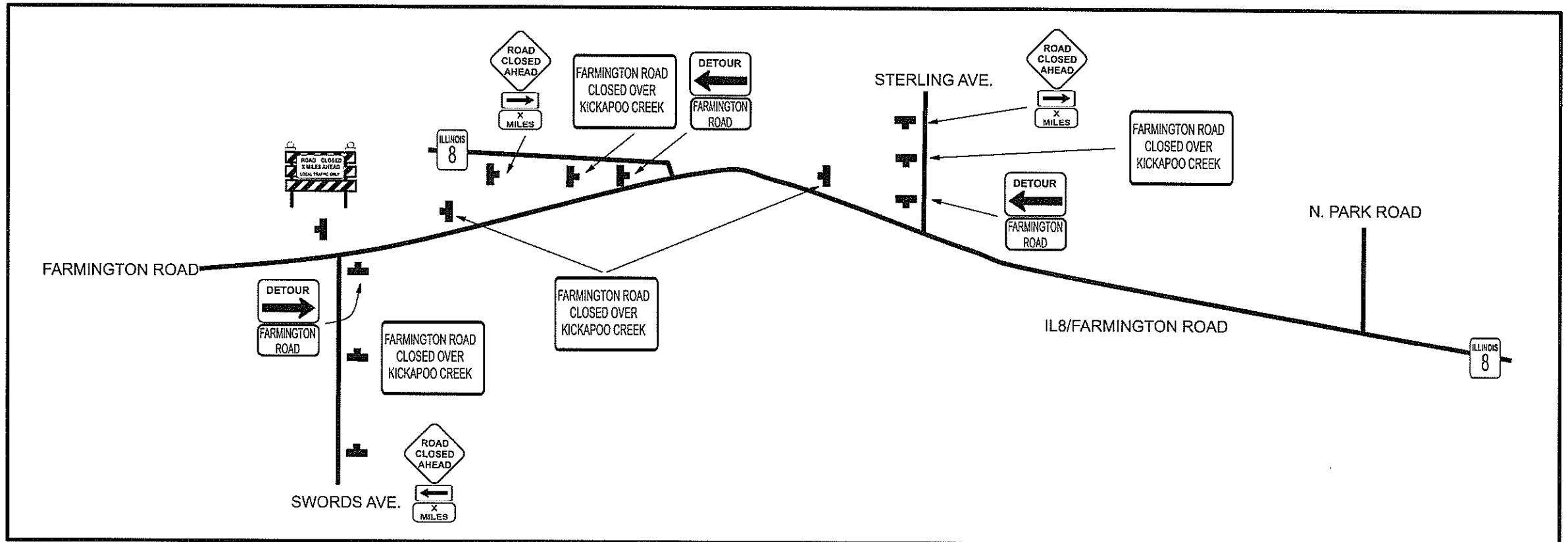
NOTE:
 DETAILS "A" & "B" SHALL BE PAID FOR
 BY HIGHWAY STANDARD BLR21-9.



FILE NAME = 072-2863.dgn	USER NAME = jonesco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING DETAILS SN. 072-0063		F.A.U. RTE. 6659	SECTION 111-BR/B-R	COUNTY PEORIA	TOTAL SHEETS 17	SHEET NO. 9
Default	PLOT SCALE = 205.9925' / 1" =	DRAWN - CEJ	REVISED -		SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	EMERGENCY PPC BEAM REPAIR	CONTRACT NO. 68035		ILLINOIS FED. AID PROJECT
	PLOT DATE = 6/20/2016	CHECKED - CEM	REVISED -								



FILE NAME = 072-0263.dgn	USER NAME = jonesco	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING DETAILS SN. 072-0063		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 285.9925' / in.	DRAWN - CEJ	REVISED - _____		6659	111-BR3-R	PEORIA	18	10		
	PLOT DATE = 6/28/2016	CHECKED - CEM	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		EMERGENCY PPC BEAM REPAIR		CONTRACT NO. 68D35		
		DATE - _____	REVISED - _____		ILLINOIS/FED. AID PROJECT						



SIGNAGE AND DETAILS SHOWN FOR CLOSURE/DETOUR ARE NOT TO SCALE. UNLESS OTHERWISE NOTED, SIGNS ARE STANDARD SIZE.

**FARMINGTON ROAD
CLOSED OVER
KICKAPOO CREEK**

4' X 6'
BLACK ON ORANGE

FILE NAME = 072-2263.dgn	USER NAME = Jonesce	DESIGNED -	REVISED -
Default	PLOT SCALE = 205.9925' / in.	DRAWN - CEJ	REVISED -
	PLOT DATE = 6/23/2016	CHECKED - CEM	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING DETAILS	
SN. 072-0063	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	11-BR/B-R	PEORIA	17	11
EMERGENCY PPC BEAM REPAIR			CONTRACT NO. 68035	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

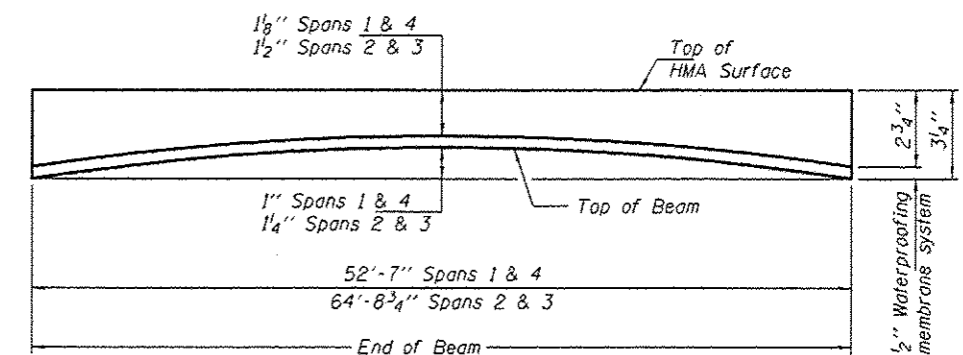
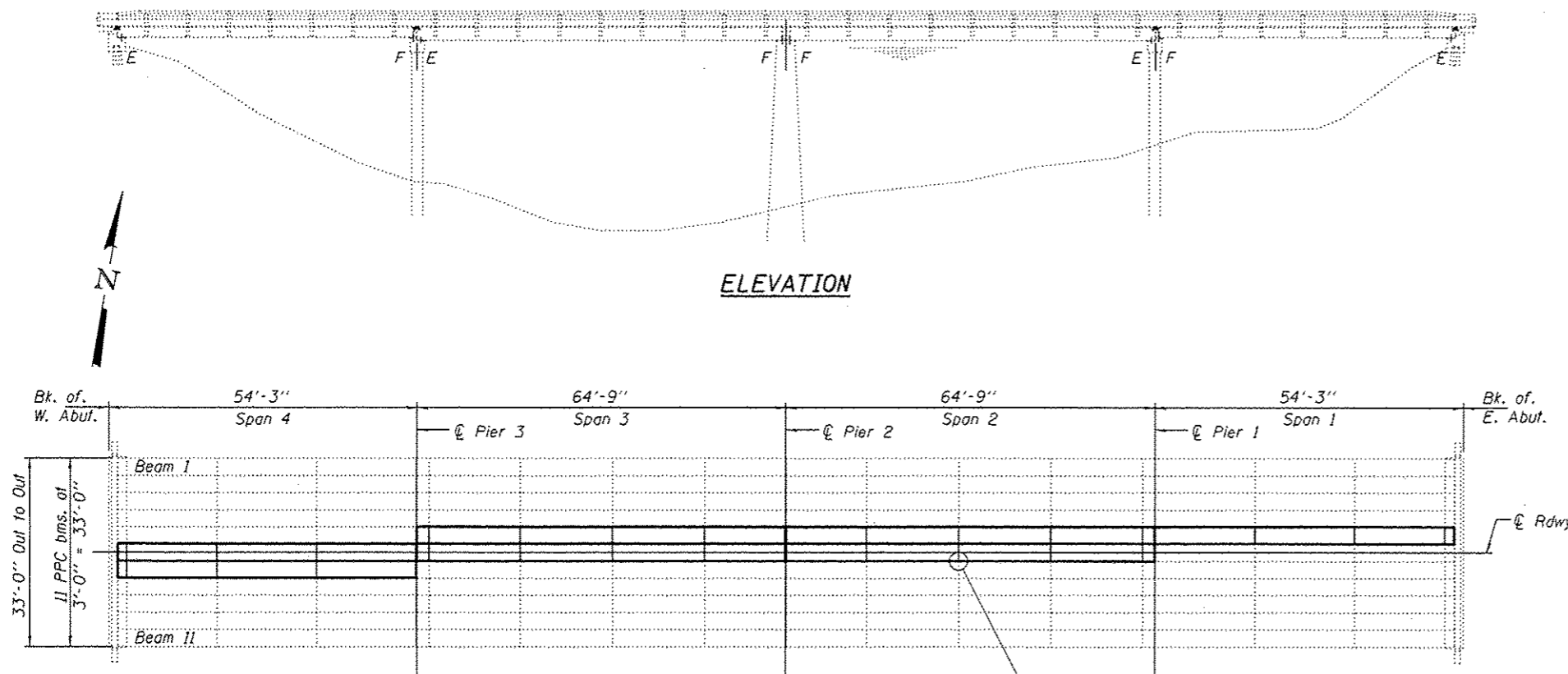
Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause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

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.

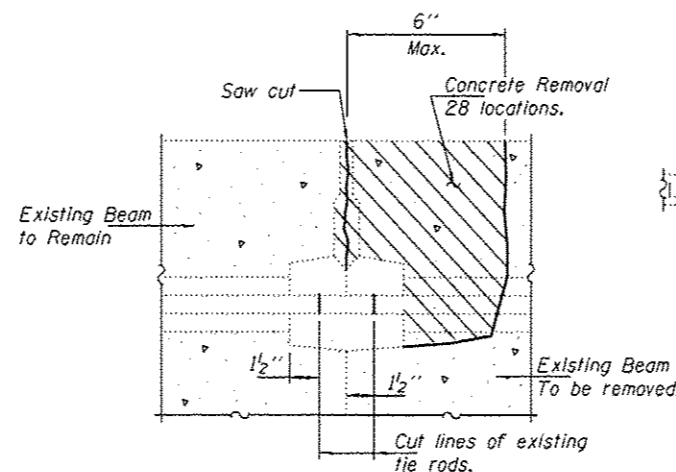
If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

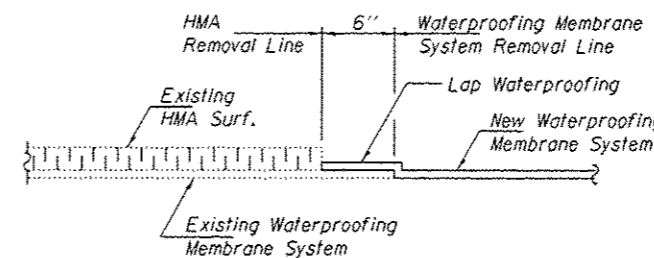
Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams. Work to be completed under bridge closure.



ANTICIPATED INITIAL CAMBER DIAGRAM



BEAM REMOVAL DETAIL AT TRANSVERSE TIES



WATERPROOFING TREATMENT

DESIGN STRESSES

PRECAST PRESTRESSED UNITS
 $f'c = 6,000 \text{ psi}$
 $f'ci = 5,000 \text{ psi}$
 $f's = 270,000 \text{ psi}$ ($1/2"$ low lax strands)
 $f'sl = 201,960 \text{ psi}$ ($1/2"$ low lax strands)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	1250
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	465
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	766
Hot-Mix Asphalt Surface Removal	Sq. Yd.	182.6
HMA Surface Course Mix "C" N50	Tons	275
Waterproofing Membrane System	Sq. Yd.	182.6
PC Mortar Fairing Course	Foot	652



EXPIRES 11-30-2016

DESIGNED: *[Signature]*
 CHECKED: *[Signature]*
 DRAWN: *[Signature]*
 CHECKED: *[Signature]*

PASSED

[Signature]
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE: JUNE 29, 2016

REVISED: _____
 REVISED: _____

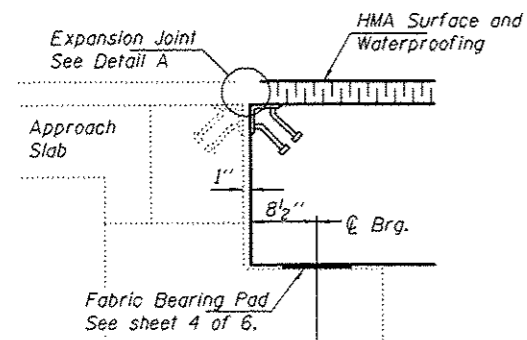
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
 SBI 8 (FARMINGTON RD.) OVER KICKAPOO CREEK
 SN 072-0063

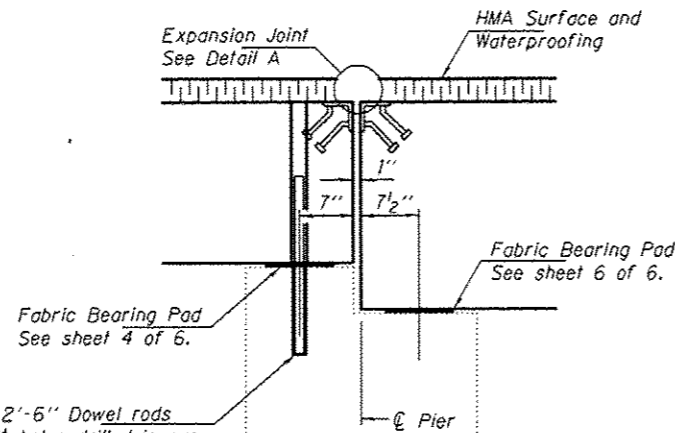
SHEET NO. 1 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	118R18-R	PEORIA	17	12

CONTRACT NO. 68035
 ILLINOIS/FED. AID PROJECT

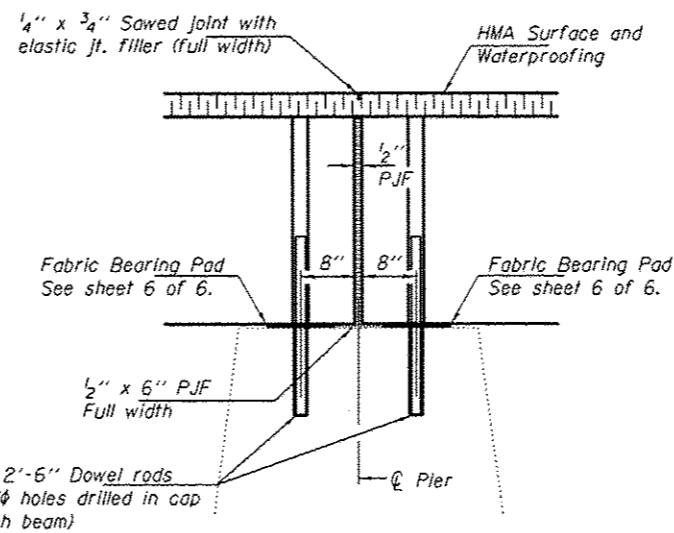


SECTION THRU ABUTMENT



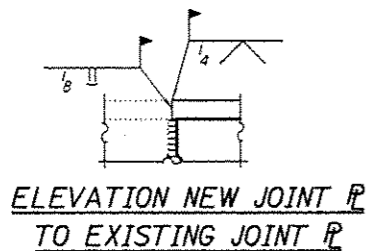
* 1"φ x 2'-6" Dowel rods in 1.5"φ holes drilled in cap (2 each beam)

SECTION THRU PIER 3
(Pier 1 similar by rotation)



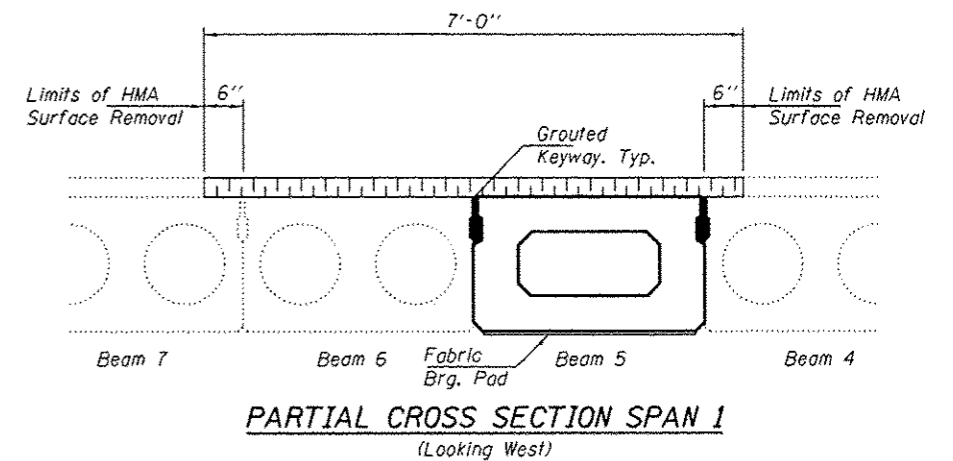
* 1"φ x 2'-6" Dowel rods in 1.5"φ holes drilled in cap (2 each beam)

SECTION THRU PIER 2

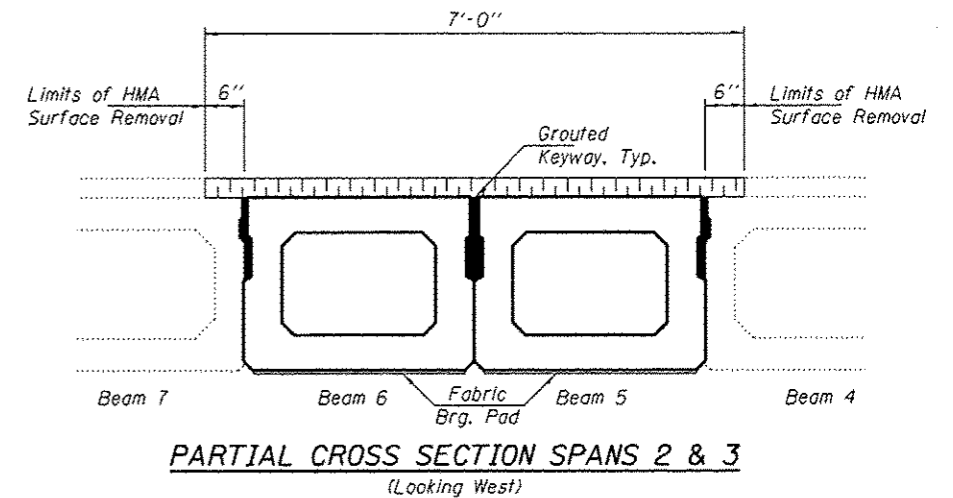


ELEVATION NEW JOINT P TO EXISTING JOINT P

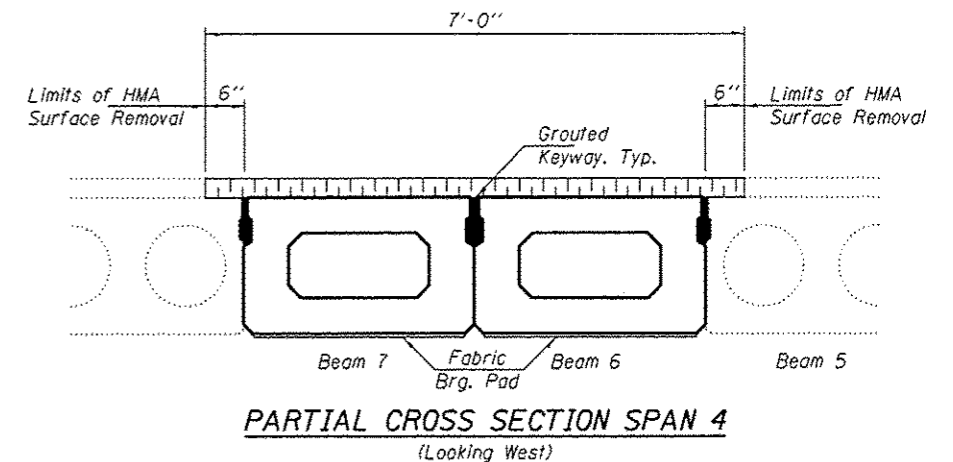
* Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing PPC Deck Beams. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.



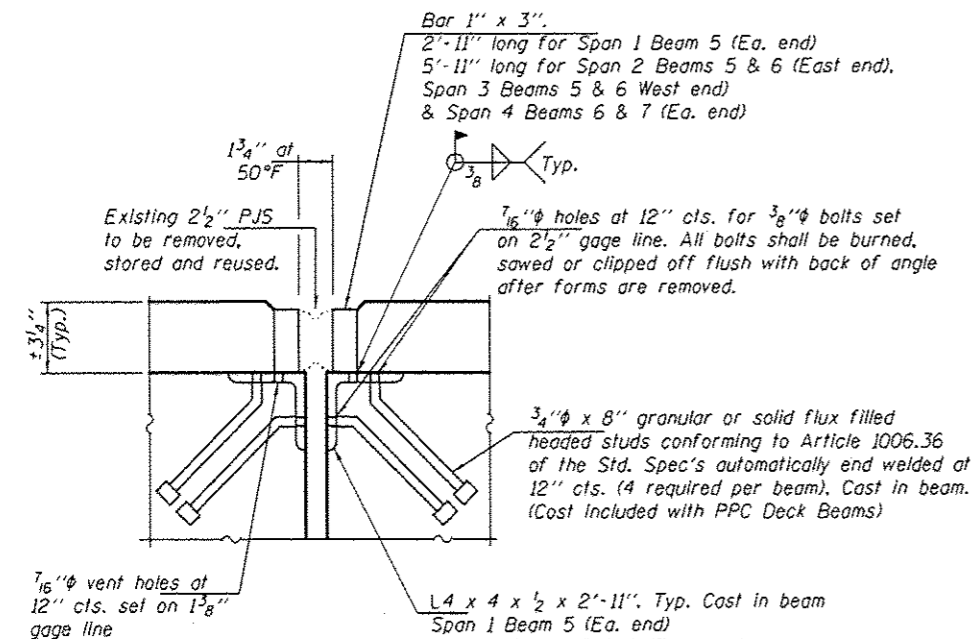
PARTIAL CROSS SECTION SPAN 1
(Looking West)



PARTIAL CROSS SECTION SPANS 2 & 3
(Looking West)



PARTIAL CROSS SECTION SPAN 4
(Looking West)



DETAIL A

DESIGNED DAB
CHECKED VHV
DRAWN boliva
CHECKED DAB VHV

PASSED

Carl Perry
ACTING ENGINEER OF BRIDGES AND STRUCTURES

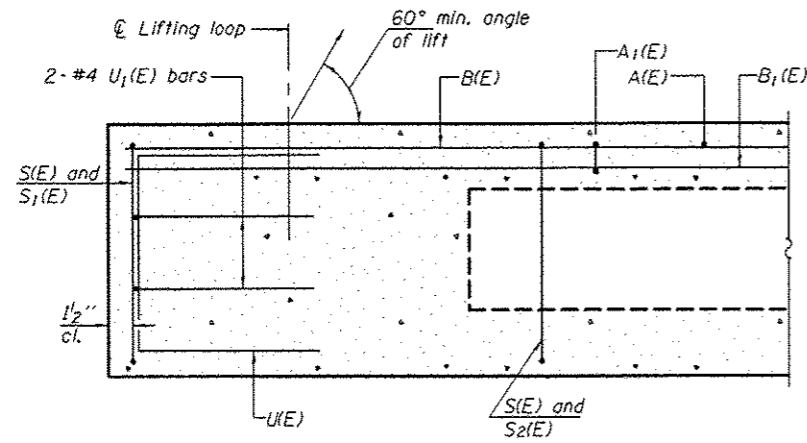
DATE JUNE 29, 2016
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

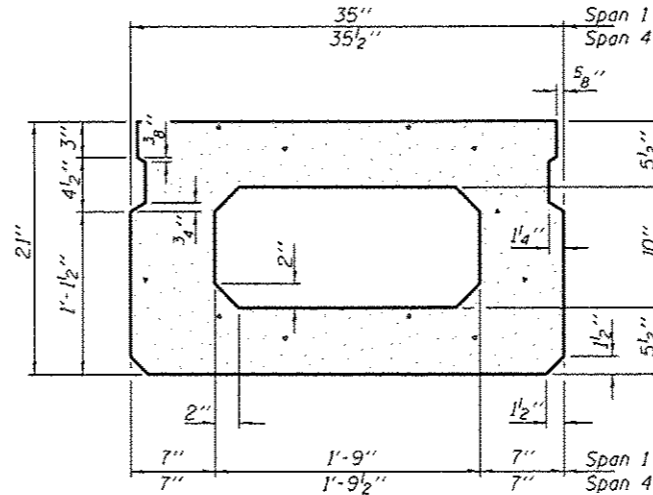
REPAIR DETAILS
SN 072-0063

SHEET NO. 2 OF 6 SHEETS

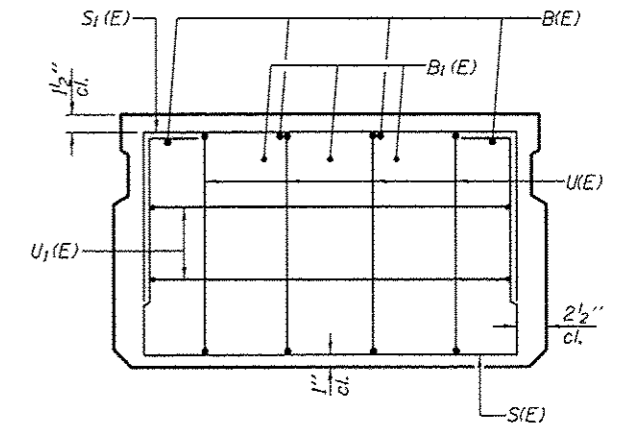
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	11BR0-R	PEORIA	13	13
CONTRACT NO. 68D35			ILLINOIS FED. AID PROJECT	



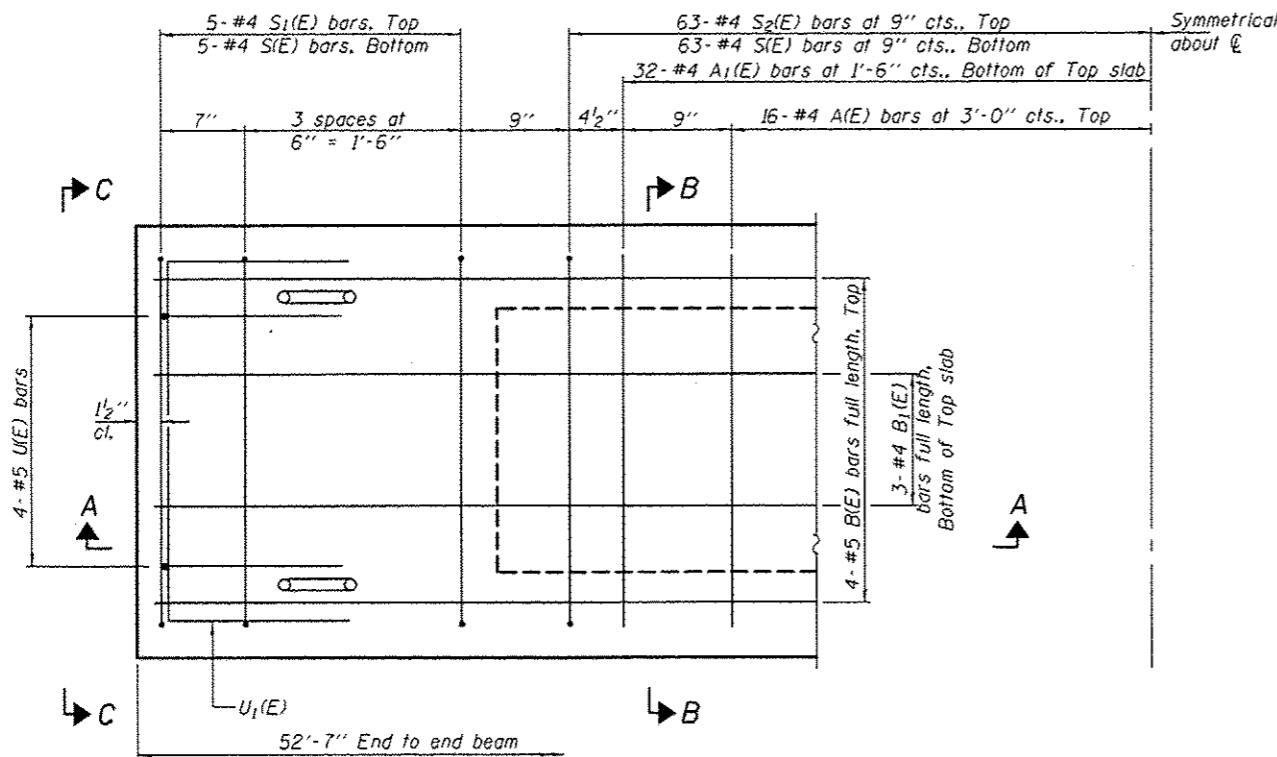
SECTION A-A



SECTION B-B
(Showing dimensions)

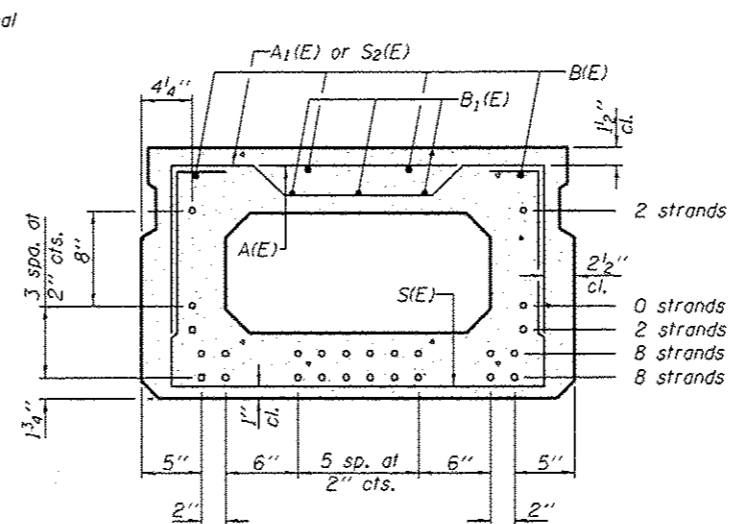


VIEW C-C

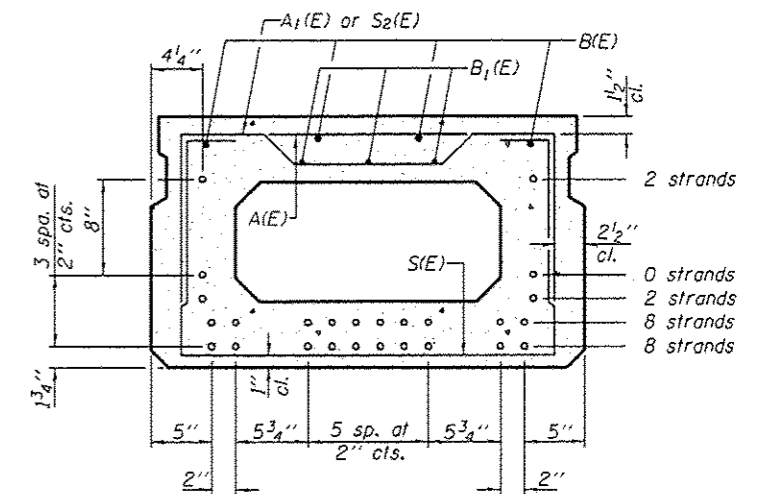


PLAN VIEW

Note: Spacing of S1(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B (SPAN 1)
(Showing reinforcement and permissible strand locations)



SECTION B-B (SPAN 4)
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	2'-7"	—
A1(E)	32	#4	2'-9"	—
B(E)	8	#5	27'-6"	—
B1(E)	6	#4	27'-3"	—
S(E)	73	#4	6'-4"	□
S1(E)	10	#4	4'-11"	□
S2(E)	63	#4	5'-11"	□
U1(E)	8	#5	4'-0"	□
U1(E)	4	#4	4'-11"	□

Note: See sheet 4 of 6 for additional details and Bill of Material.

DESIGNED DAB
CHECKED VHV
DRAWN baliva
CHECKED DAB VHV

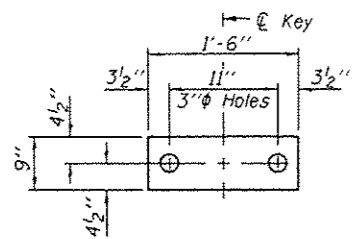
DATE JUNE 29, 2016
PASSED *[Signature]*
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

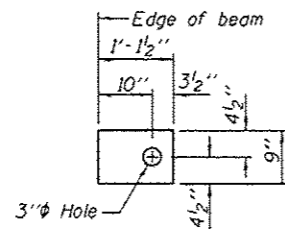
21" x 36" PPC DECK BEAM SPANS 1 & 4
SN 072-0063

SHEET NO. 3 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	11BR08-R	PEORIA	11	14
CONTRACT NO. 68035			ILLINOIS FED. AID PROJECT	



FABRIC BEARING PAD
(Interior)

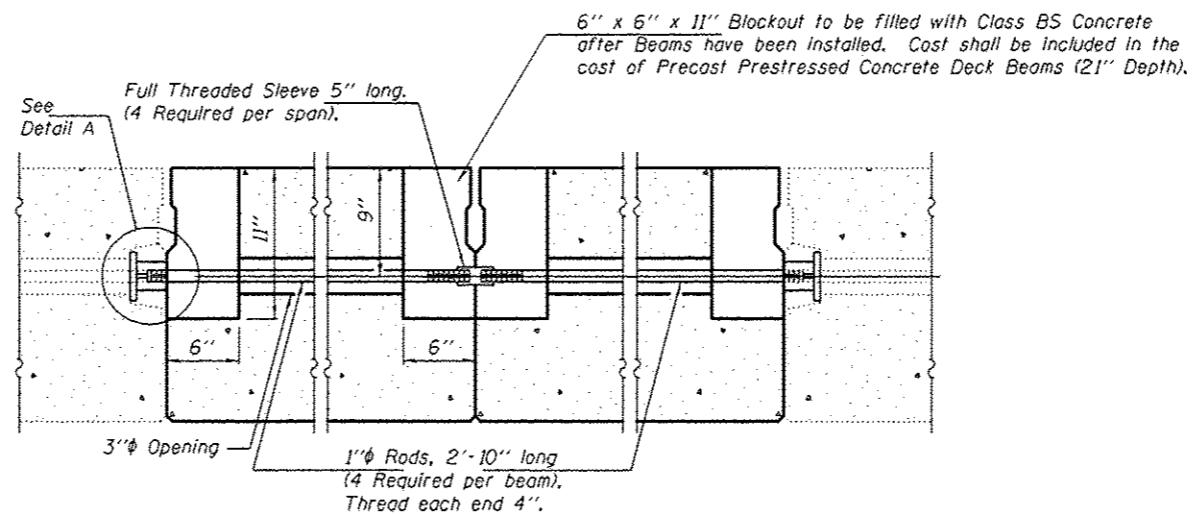


FABRIC BEARING PAD
(Exterior)

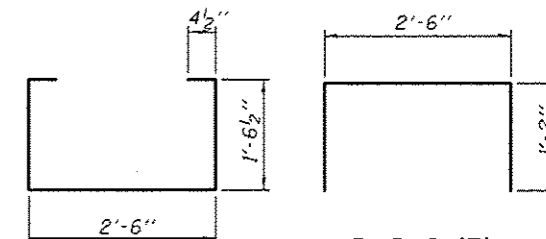
FIXED

Notes:

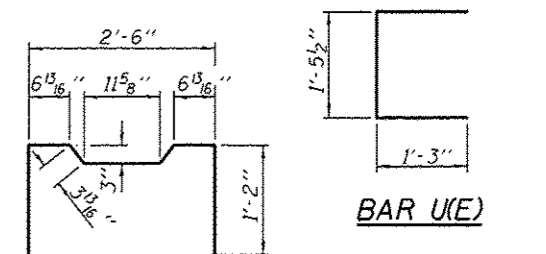
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



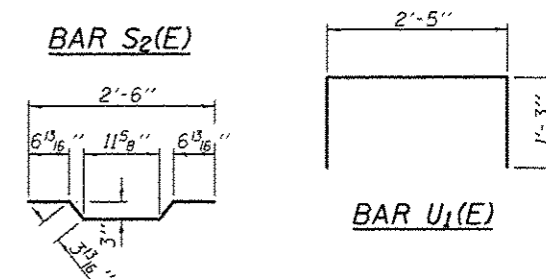
TRANSVERSE TIE ASSEMBLY



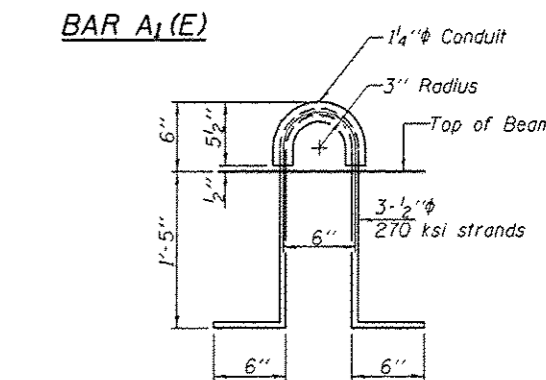
BAR S1(E)



BAR UE(E)

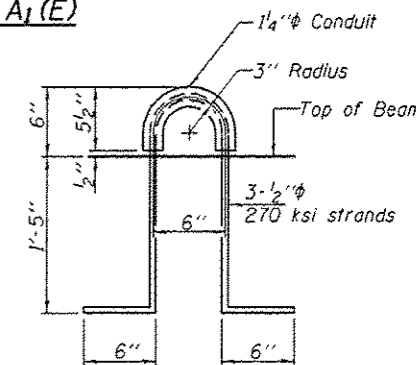


BAR S2(E)

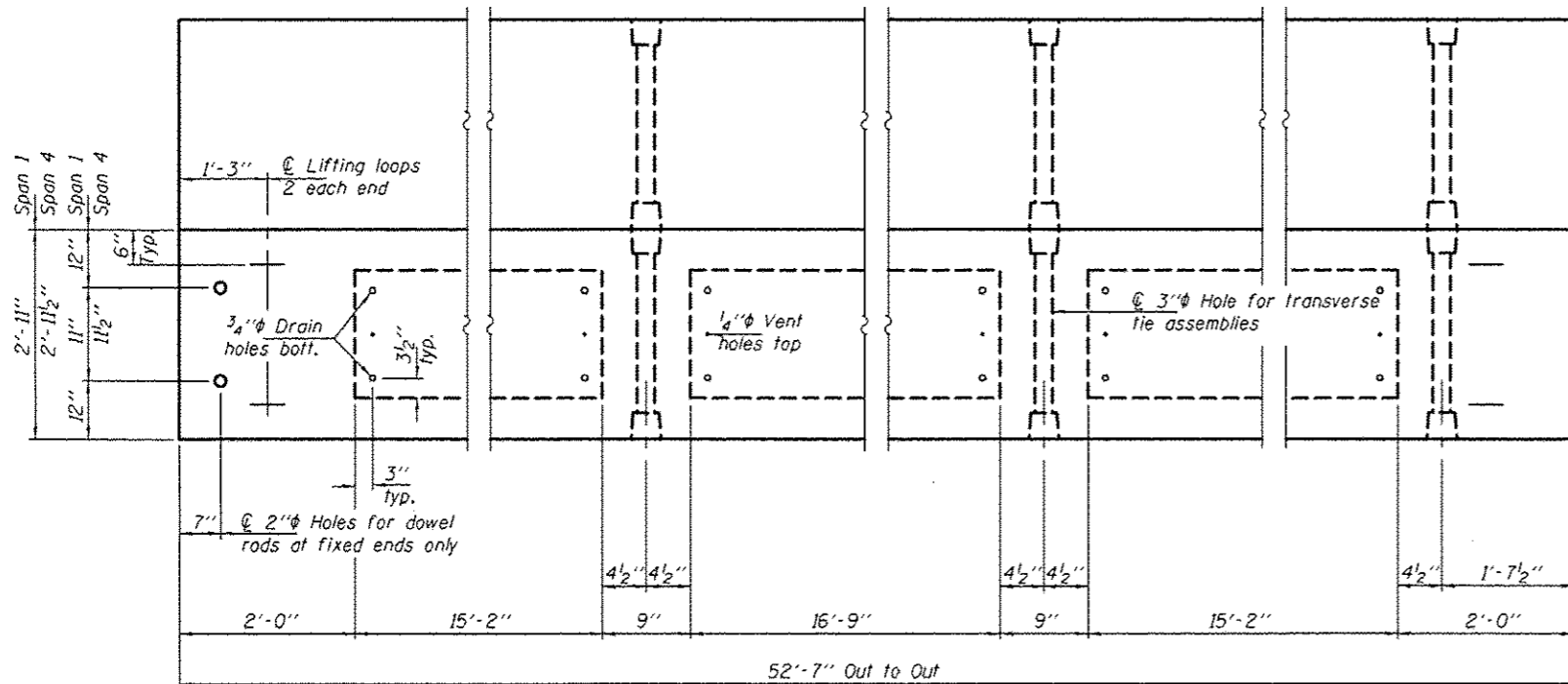


BAR U1(E)

BAR A1(E)



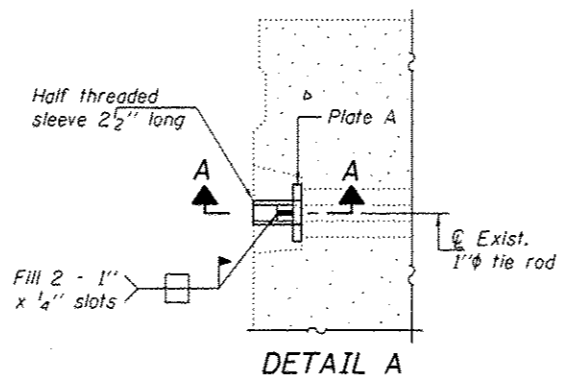
LIFTING LOOP DETAIL



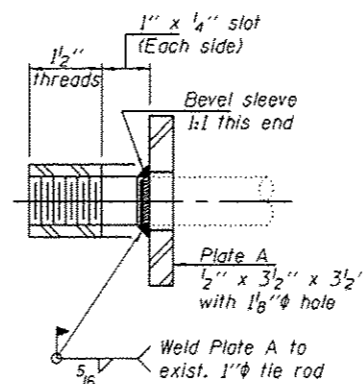
PLAN VIEW

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



DETAIL A



SECTION A-A
(3 Required per beam)

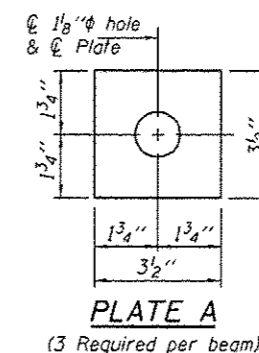


PLATE A
(3 Required per beam)

BILL OF MATERIAL
(3 BEAMS)

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	465
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DESIGNED DAB
CHECKED VHV
DRAWN balva
CHECKED DAB VHV

PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

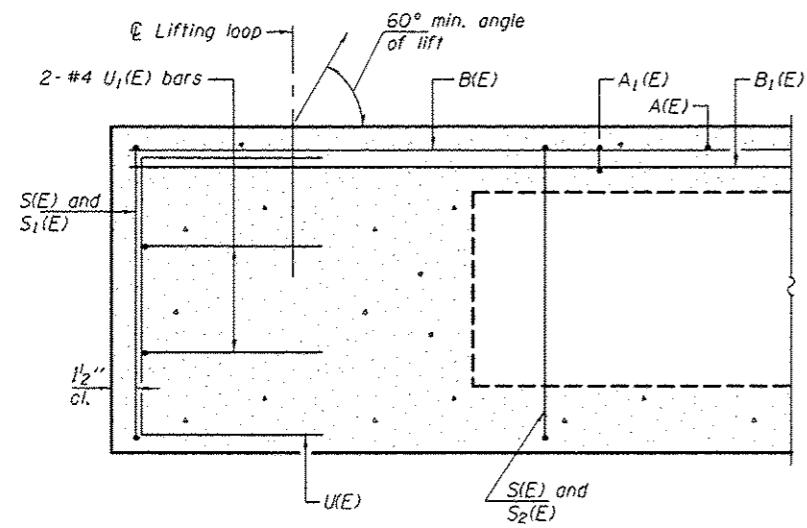
DATE JUNE 29, 2016
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

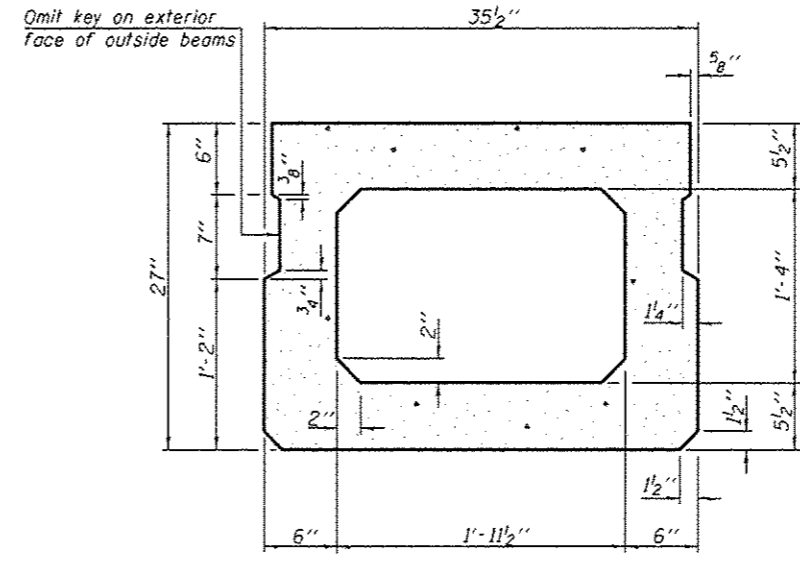
21" x 36" PPC DECK BEAM DETAILS SPANS 1 & 4
SN 072-0063

SHEET NO. 4 OF 6 SHEETS

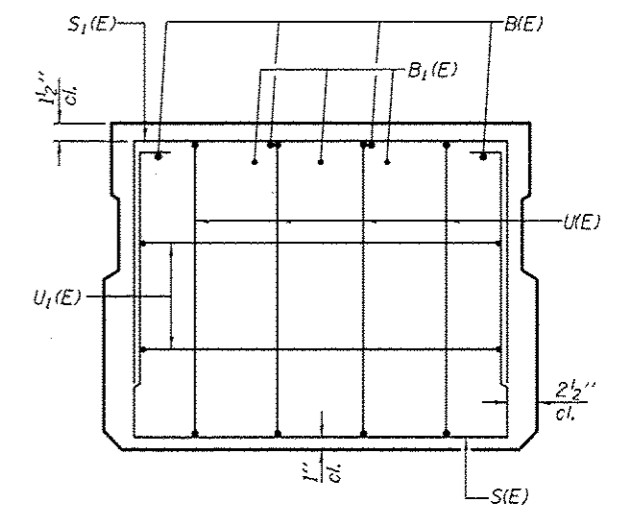
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	118R18-R	PEORIA	17	15
CONTRACT NO. 68D35			ILLINOIS FED. AID PROJECT	



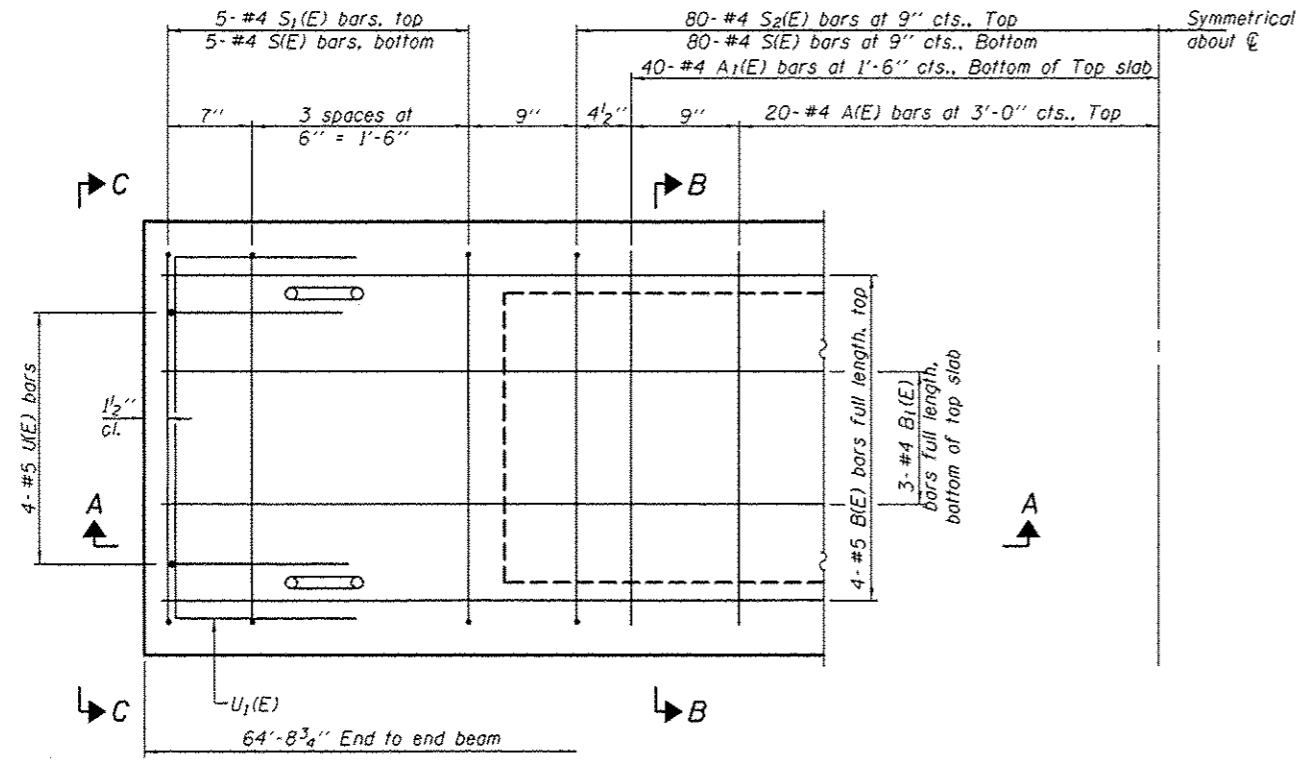
SECTION A-A



SECTION B-B
(Showing dimensions)

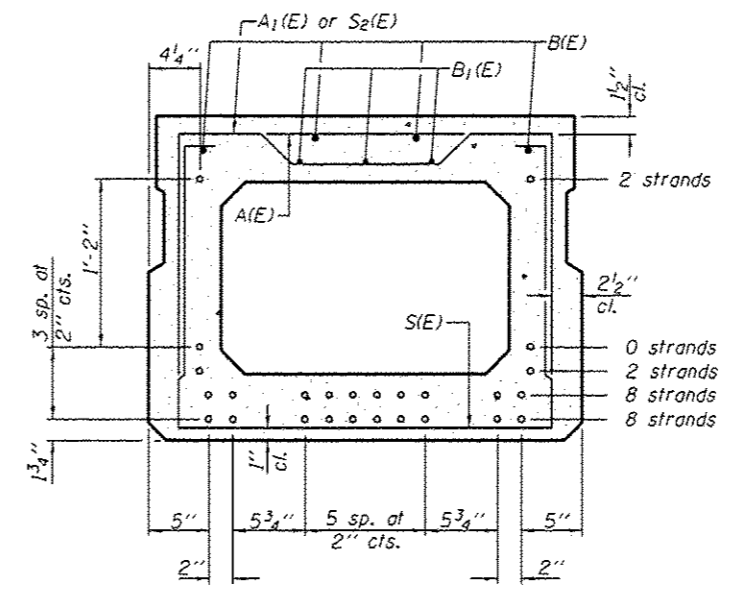


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	20	#4	2'-7"	—
A1(E)	40	#4	2'-9"	—
B(E)	8	#5	33'-9"	—
B1(E)	6	#4	33'-4"	—
S(E)	90	#4	7'-9"	□
S1(E)	10	#4	5'-10"	□
S2(E)	80	#4	6'-9"	□
U(E)	8	#5	4'-6"	□
U1(E)	4	#4	4'-11"	□

Note: See sheet 6 of 6 for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

DESIGNED *DAB*
CHECKED *VHV*
DRAWN *baliva*
CHECKED *DAB VHV*

PASSED
Carl Perry
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JUNE 29, 2016
REVISED
REVISED

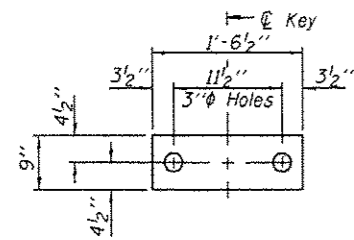
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM SPANS 2 & 3
SN 072-0063

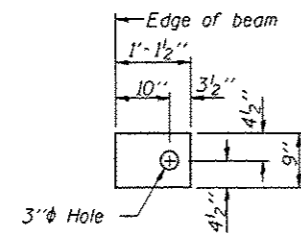
SHEET NO. 5 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6659	118R18-R	PEORIA	11	16

CONTRACT NO. 68D35
ILLINOIS FED. AID PROJECT



FABRIC BEARING PAD
(Interior)

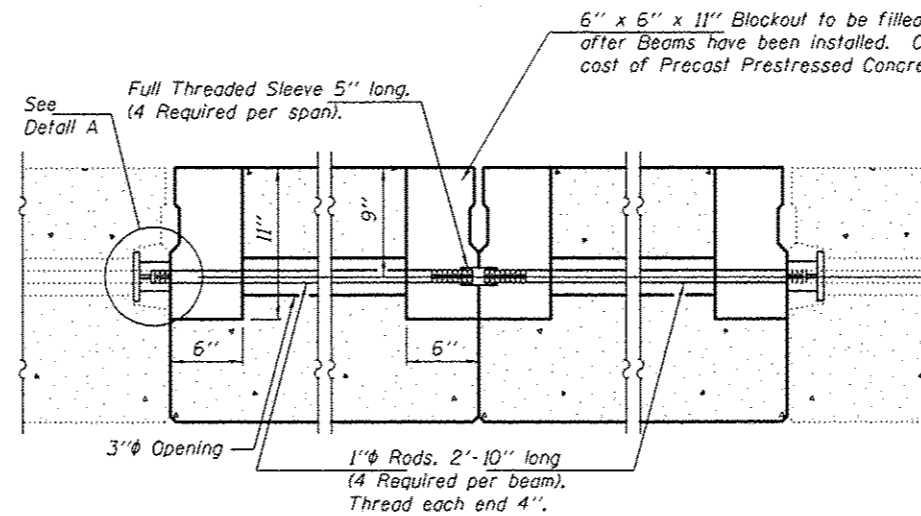


FABRIC BEARING PAD
(Exterior)

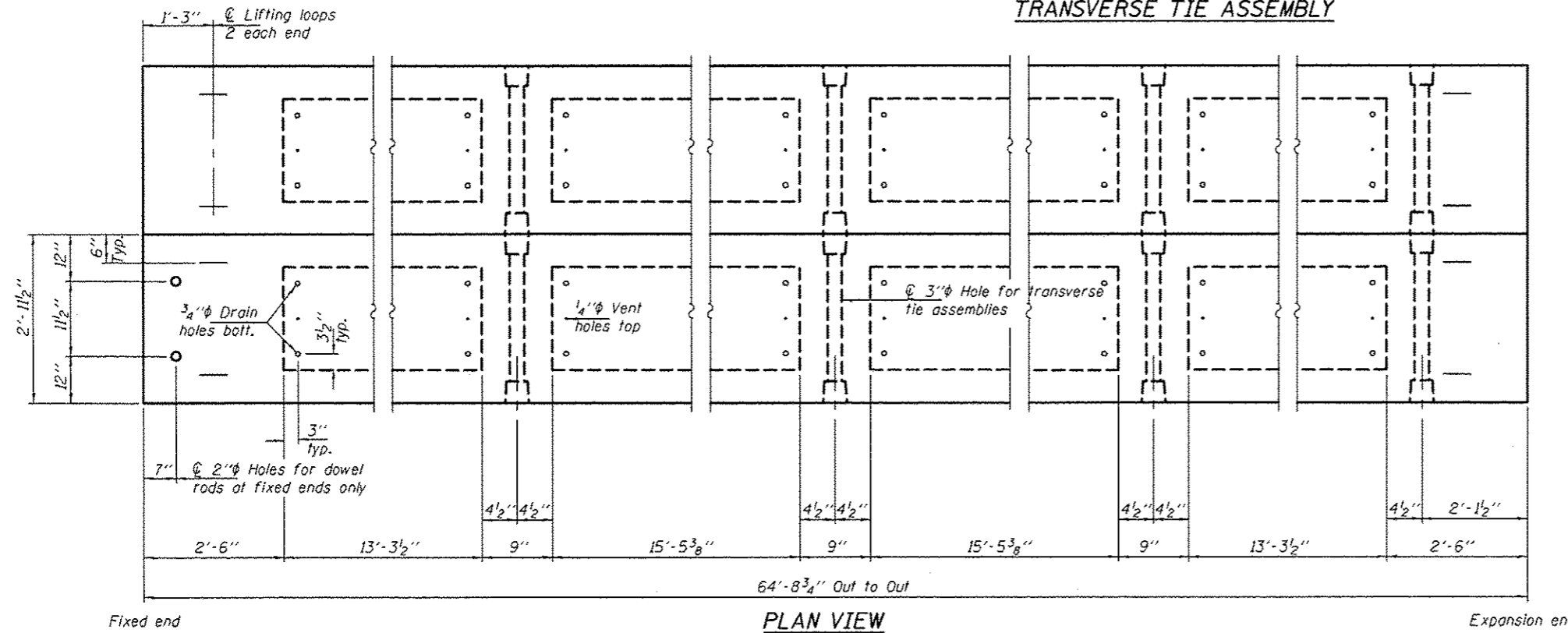
FIXED

Notes:

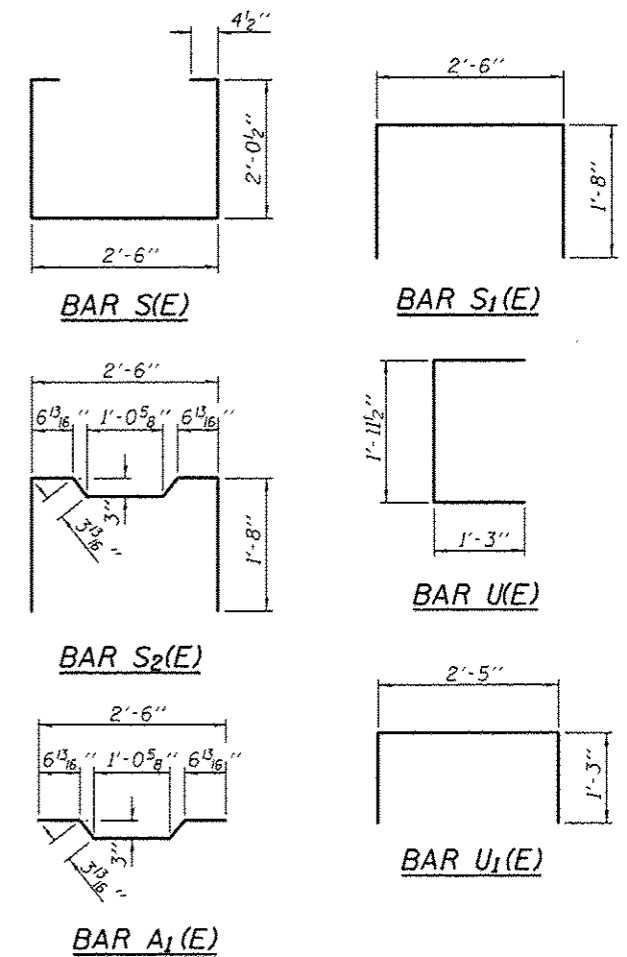
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



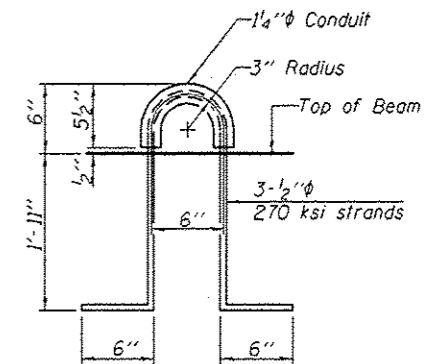
TRANSVERSE TIE ASSEMBLY



PLAN VIEW

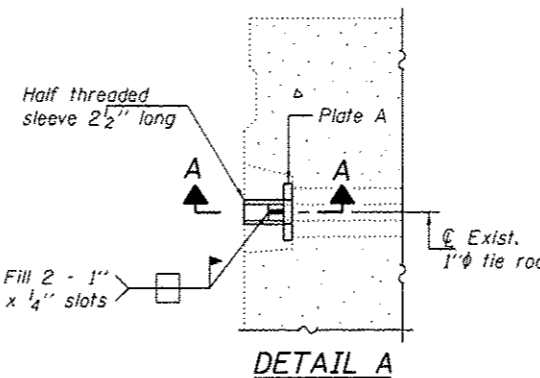


LIFTING LOOP DETAIL

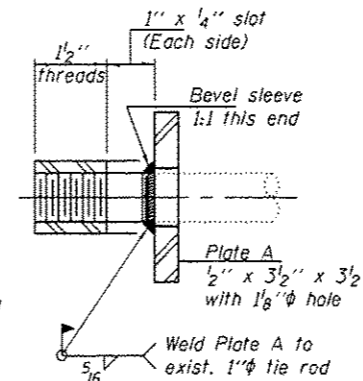


NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



DETAIL A



SECTION A-A
(4 Required per beam)

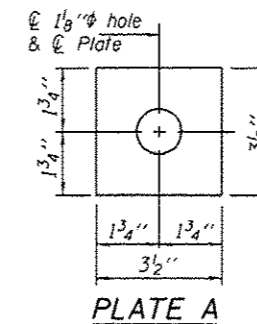


PLATE A
(4 Required per beam)

BILL OF MATERIAL
(4 BEAMS)

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	766
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DESIGNED DAB
CHECKED VHV
DRAWN baliva
CHECKED DAB VHV

PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JUNE 29, 2016
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM DETAILS SPANS 2 & 3
SN 072-0063

SHEET NO. 6 OF 6 SHEETS

F.A.U. RTE. 6653	SECTION 11BRB-R	COUNTY PEORIA	TOTAL SHEETS 11	SHEET NO. 17
CONTRACT NO. 68D35				ILLINOIS FED. AID PROJECT