

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(48-B) BDS, BDR	PEORIA	22	1
		ILLINOIS	CONTRACT NO. 68G03	

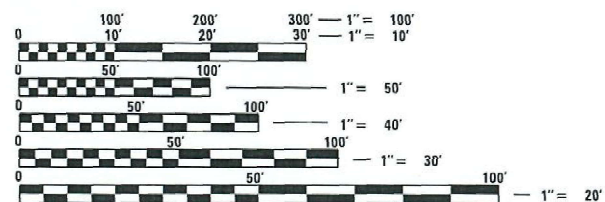
INDEX OF SHEETS

1. COVER SHEET
2. CONTRACT NOTES
3. SUMMARY OF QUANTITIES
4. SCHEDULE OF QUANTITIES
- 5-9 TRAFFIC CONTROL
- 10-13 STRUCTURAL PLANS
- 14-22 EXISTING PLANS (FOR INFORMATION ONLY)

HIGHWAY STANDARDS  
701101-05 701901-08  
701601-09 780001-05

CADD STANDARDS  
540002-D4  
606101-D4  
630101-D4

AADT: 14361 /2019  
MU: 6.67%  
SU: 7.30%



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811

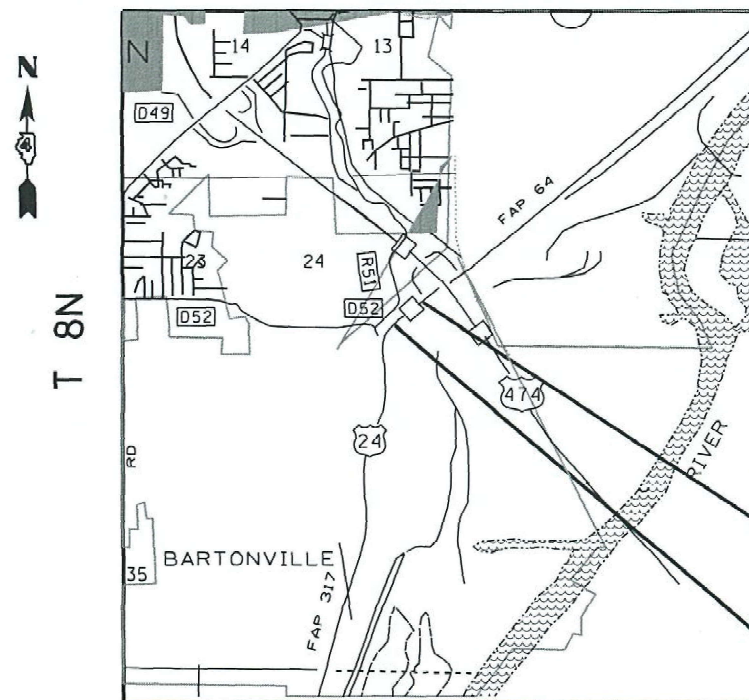
PROJECT ENGINEER: NICOLE FAYANT (309) 671-3454  
PROJECT MANAGER: SAMPSON ADADE (671-3467)  
CATALOG NO. 036118-00D  
CONTRACT NO. 68G03

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 317 (US 24)  
SECTION (48-B) BDS, BDR  
PROJECT NHPP-9EBA(458)  
BRIDGE OVERLAY  
PEORIA COUNTY

C-94-006-21

R 7E

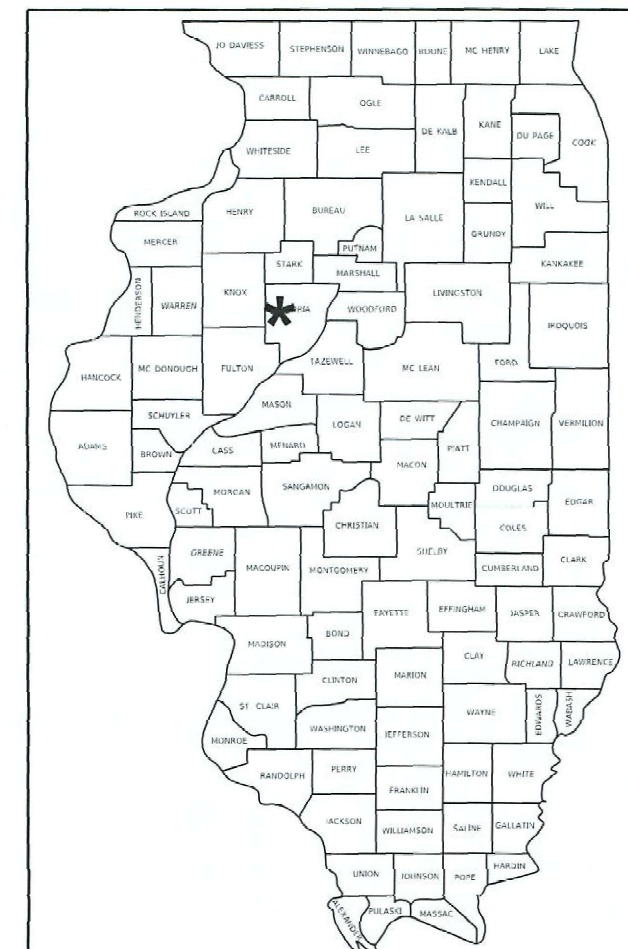


IMPROVEMENT ENDS  
STA. 189 + 53

IMPROVEMENT STARTS  
STA. 185 + 29

GROSS LENGTH = 424 FT. = 0.1 MILE  
NET LENGTH = 424 FT. = 0.1 MILE

D94-005-21



LOCATION OF SECTION INDICATED THUS: - [Star Symbol] -

This project consist of bridge deck waterproofing, deck overlay including deck slab repair(partial) to SN 072-0134 carrying US Route 24 over Kickapoo Creek near Bartonville, and related collateral work necessary to complete the project.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Mar 19 20 21  
Kensie A Garnett RSD  
REGIONAL ENGINEER

May 7, 2021 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**105.06 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 the 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 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.

**406.01 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.

**107.00 COMMITMENTS**

No Commitments were made.

**204.00 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 (Borrow Site Review)
- \* 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.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

**406.19 PAVING SURFACE COURSE**

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

The Contractor shall remove the existing asphalt at the joint to the satisfaction of the Engineer.

68G03	Description	US 24 over Kickapoo Creek				
	County	Peoria				
	Marked Route	US 24				
Notes are applicable for this project:						
Polymer Surface Course	Polymer Binder Course					
SBS or SBR 76-28	SBS or SBR 76-22					
4.0% @ N=50	4.0% @ N=50					
IL 9.5FG	IL 4.75					
Mixture D	N.A.					
QCQA	QCQA					
<small>                 s of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.                  mixture weight for all mixes is determined to be 112.0 lb/s y/in., unless otherwise noted.                  = 1000 tons, QCP = 1000 tons, unless otherwise agreed to by the Engineer and the paving contractor.             </small>						

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 FILE: M:\E...  
 PROJECT: \Projects\DOT...  
 USER: adadesa

USER NAME = adadesa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	F.A.P./RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 2062.1158' / in.	DRAWN -	REVISED -		317	(48-B) BDS, BDR	PEORIA	22	2
PLOT DATE = 4/23/2021	CHECKED -	REVISED -		CONTRACT NO.				
	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
					0059
					80% FED
					20% STATE
					PEORIA
40604110	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "D", N50	TON	390	390	
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL 4.75, N50	TON	36	36	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	25	25	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1920	1920	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	648	648	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5088	5088	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	452	452	
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	80	80	
X0900070	FULL LANE SEALANT WATERPROOFING SYSTEM	SQYD	4641	4641	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
Z0004556	HOT - MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	4641	4641	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	70	70	
Z0034105	MATERIAL TRANSFER DEVICE	TON	390	390	

\* = SPECIALTY ITEM

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PROJECT: 68G03-IL-COVER.dgn

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PLOT DATE = 2/5/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P./RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(48-B) BDS, BDR	PEORIA	26	3
		CONTRACT NO.		68G03
ILLINOIS FED. AID PROJECT				

**RESURFACING WATERPROOFING MEMBRANE**

LOCATION	STATION			LENGTH FT	AVRG WIDTH SHOULDER FT	WIDTH FT	AREA SQ YD	HMA SURF REM. (DECK) SQ YD	POLY HMA IL-9.5FG SURF CSE, 1.5" TON	FLS WATERPROOFING SYSTEM, FIRST & SECOND APP SQ YD	**POLY HMA IL-4.75 FG BINDER CSE, SPAN 1&2 ADDITIONAL TONS	**POLY HMA IL-4.75 FG BINDER CSE INCLUDED WITH FLS TONS	MATERIAL TRANSFER DEVICE (MTD) TON
WESTBOUND	185+29	TO	189+53	424		36	1,696	1,696	142	1,696		89	142
EASTBOUND	185+29	TO	189+53	424		36	1,696	1,696	142	1,696		89	142
WESTBOUND SHOULDERS	185+29	TO	189+53	424	4.5		212	212	18	212		9	18
EASTBOUND SHOULDERS & RAMP	185+29	TO	189+53	424	22.0		1,037	1,037	87	1,037		45	87
ADDITIONAL BINDER FOR SPAN 1 & 2											36		36
<b>TOTAL</b>								<b>4,641</b>	<b>390</b>	<b>4,641</b>	<b>36</b>	<b>232</b>	<b>426</b>

**\*\* 0.75" THICKNESS OF POLY HMA BINDER CSE IS INCLUDED IN THE COST OF FLS WATERPROOFING SYSTEM. SPANS 1 & 2 WILL HAVE ADDITIONAL THICKNESS OF BINDER DUE TO THE CAMBER OF THE PPC DECK BEAMS. THIS ADDITIONAL THICKNESS WILL VARY FROM 0" TO 1.75". THE ADDITIONAL AMOUNT OF BINDER TO BE PAID FOR SEPARATELY IS APPROXIMATELY 36 TONS PLUS MATERIAL TRANSFER DEVICE (MTD)**

HOT-MIX ASPHALT SURFACE REMOVAL(DECK)	
LOCATION	SQ YDS
STA. 185+29 TO 189+53	4641
<b>TOTAL</b>	<b>4641</b>

ENGINEER'S FIELD OFFICE, TYPE A	
LOCATION	CAL MO
JOBSITE	2
<b>TOTAL</b>	<b>2</b>

MODIFIED URETHANE PAV'T MARKING - 8"	
LOCATION	FOOT
STA. 185+29 TO 189+53	80
<b>TOTAL</b>	<b>80</b>

TRAFFIC CONTROL SPECIAL AND PROTECTION, (SPECIAL)	
LOCATION	L SUM
JOBSITE	1
<b>TOTAL</b>	<b>1</b>

MOBILIZATION	
LOCATION	L SUM
JOBSITE	1
<b>TOTAL</b>	<b>1</b>

SHORT-TERM PAVEMENT MARKING				
LOCATION	STATION			QUANTITY
				FEET
WESTBOUND	185+29	TO	189+53	480
EASTBOUND	185+29	TO	189+53	480
WESTBOUND SHOULDERS	185+29	TO	189+53	480
EASTBOUND SHOULDERS & RAMP	185+29	TO	189+53	480
<b>TOTAL</b>				<b>1920</b>

FULL LANE SEALANT WATERPROOFING SYSTEM	
LOCATION	SQ YDS
STA. 185+29 TO 189+53	4641
<b>TOTAL</b>	<b>4641</b>

CHANGEABLE MESSAGE SIGN	
LOCATION	CAL DA
JOBSITE	25
<b>TOTAL</b>	<b>25</b>

MODIFIED URETHANE PAV'T MARKING - 6"	
LOCATION	FOOT
STA. 185+29 TO 189+53	452
<b>TOTAL</b>	<b>452</b>

MODIFIED URETHANE PAV'T MARKING - 4"	
LOCATION	FOOT
STA. 185+29 TO 189+53	5088
<b>TOTAL</b>	<b>5088</b>

HOT-MIX ASPHALT SURFACE REMOVAL(DECK), SPAN 3,4,5&6	
LOCATION	SQ YDS
STA. 185+29 TO 189+53	4641
<b>TOTAL</b>	<b>4641</b>

SHORT-TERM PAVEMENT MARKING REMOVAL				
LOCATION	STATION			QUANTITY
				SQ FT
WESTBOUND	185+29	TO	189+53	162
EASTBOUND	185+29	TO	189+53	162
WESTBOUND SHOULDERS	185+29	TO	189+53	162
EASTBOUND SHOULDERS & RAMP	185+29	TO	189+53	162
<b>TOTAL</b>				<b>648</b>

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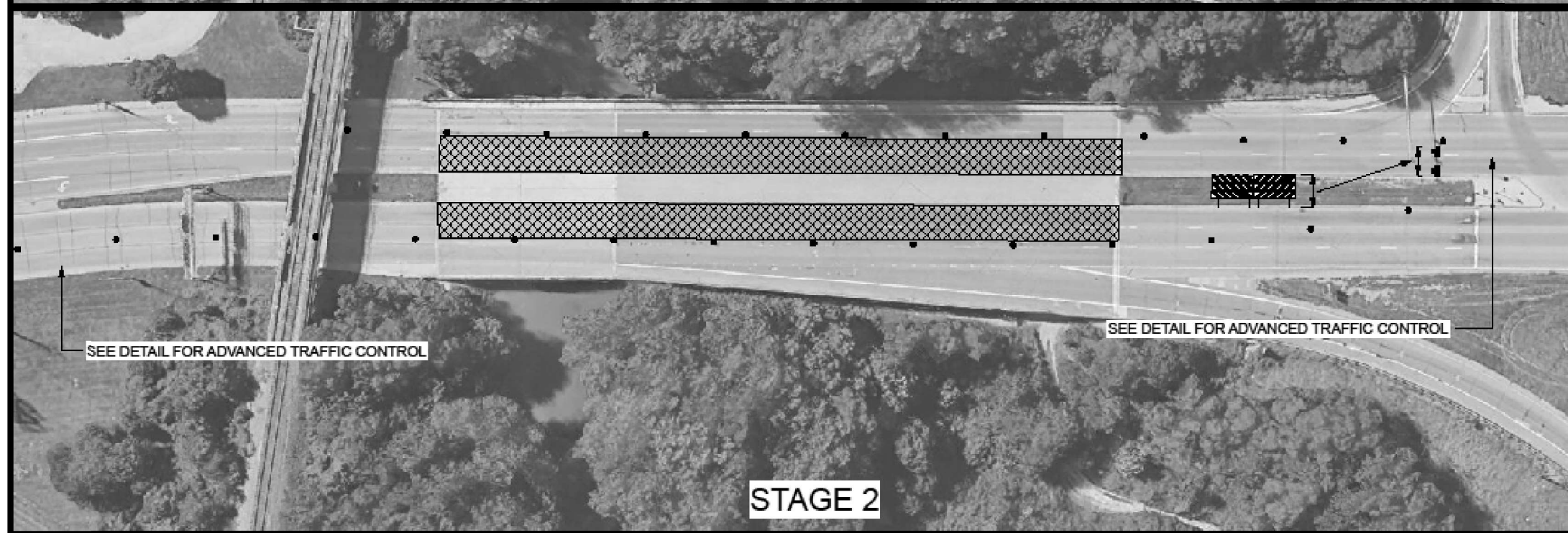
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS

F.A.P./ RTE. 317	SECTION (48-B) BDS, BDR	COUNTY PEORIA	TOTAL SHEETS 22	SHEET NO. 4
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				





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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A./P./RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(48-B) BDS, BDR	PEORIA	22	5
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

- TRAFFIC CONTROL AND PROTECTION SPECIAL PAY ITEM SHALL COVER ALL ASPECTS OF THE TRAFFIC CONTROL SHOWN AND REFERRED TO HEREIN.
- TRAFFIC CONTROL AND PROTECTION STANDARD 701601 SHALL BE USED AS A GUIDE AND REFERENCE FOR THE TRAFFIC SHOWN ON THE DETAILS.
- FLAGGER SIGNS (NOT SHOWN) SHALL BE PLACED 200' IN ADVANCE OF BRIDGE WHEN WORKERS ARE IN THE CLOSED LANE OR IN THE CLOSED LANE ADJACENT TO TRAFFIC. THEY SHALL BE REMOVED NIGHTLY WHEN USED AND MAY BE ON AN "A-FRAME". WHEN FLAGGER IS NOT NEEDED, A "WORKER" SIGN SHALL BE USED.
- ALL OTHER TRAFFIC CONTROL SIGNS SHALL BE PLACED ON A TEMPORARY, STAND MOUNT SIGN (NOT "A-FRAME" STYLE) FOR BETTER VISIBILITY.
- ADVANCE SIGNS SHOWN SHALL BE DUAL DISPLAY (NOT SHOWN). WHEN PLACED IN A BI-DIRECTIONAL TURN LANE, THREE LIT DEVICES SHALL BE PLACED ON THE BACK SIDE OF THE SIGN.
- TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON THE BRIDGE (ON OR NEAR CENTER MEDIAN) FOR SEVEN (7) CALENDAR DAYS TO ADVANCE WARN THE PUBLIC. THE EASTBOUND MESSAGE BOARD SHALL CONVEY THE CLOSING OF THE I-474 ENTRANCE RAMP.
- INTERSECTING SIDE ROADS WILL REQUIRE A "ROAD CONSTRUCTION AHEAD" SIGN-"A-FRAME" WILL BE ALLOWED.

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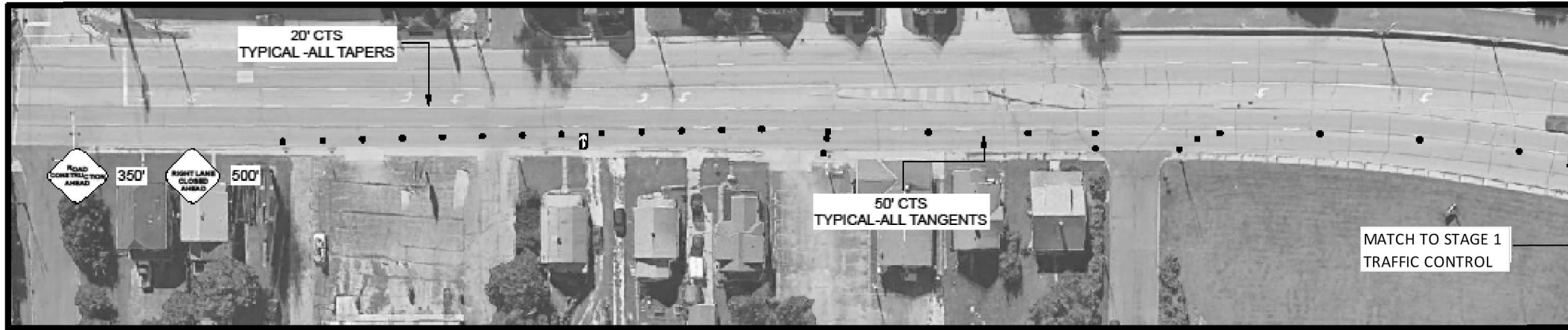
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL**

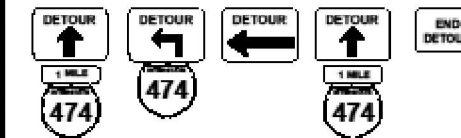
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(48-B) BDS, BDR	PEORIA	22	6
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				





**EASTBOUND-STAGE 1 APPROACH**  
**I-474 ENTRANCE RAMP DETOUR SIGNAGE**



TEMP STANDS ALLOWED. DETOUR WILL UTILIZE WASHINGTON ST.  
 U-TURN LOOP. LOCATIONS WILL BE DISCUSSED AT THE  
 PRECONSTRUCTION MEETING.

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PLOT DATE = 4/23/2021	DATE -	REVISED -

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

**TRAFFIC CONTROL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P./RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(48-B) BDS, BDR	PEORIA	22	7
CONTRACT NO. 68G03			ILLINOIS FED. AID PROJECT	



EASTBOUND- STAGE 2 APPROACH

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PLOT DATE = 4/26/2021	JATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL

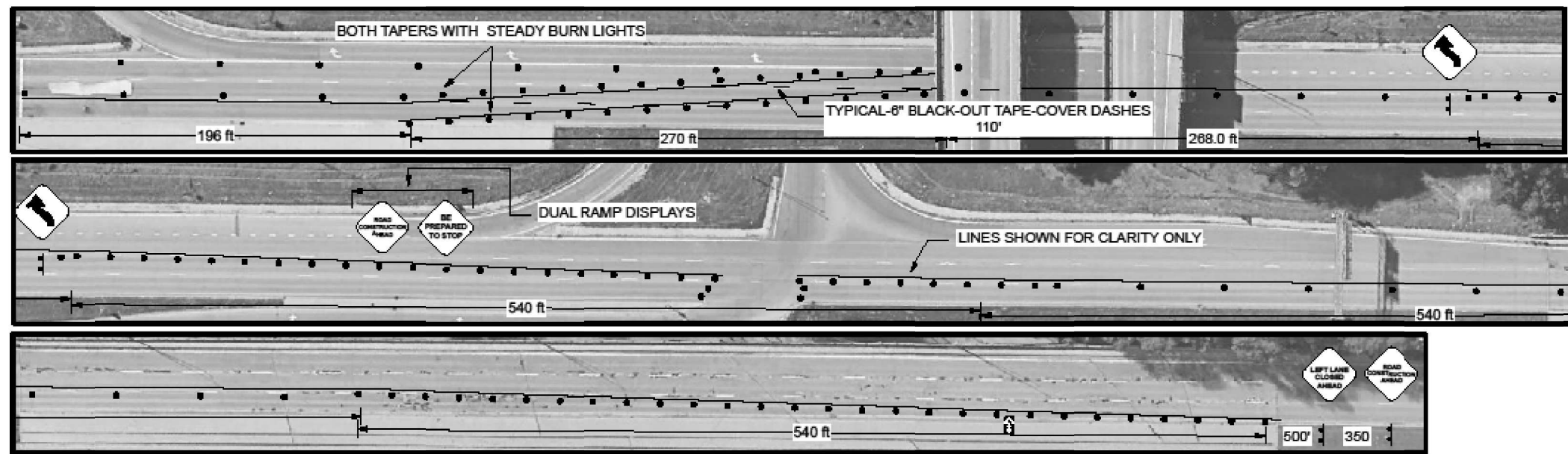
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F.A.P./ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(48-B) BDS, BDR	PEORIA	22	8
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				





STAGE 2- WESTBOUND APPROACH



STAGE 3- WESTBOUND APPROACH

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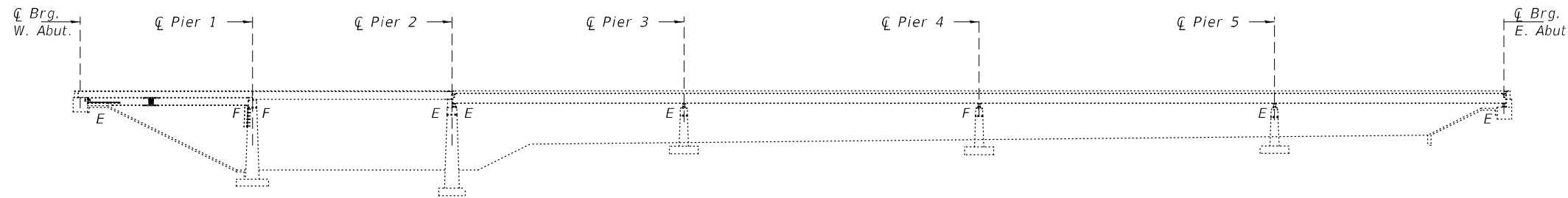
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PLOT DATE = 4/23/2021	DATE -	REVISED -

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

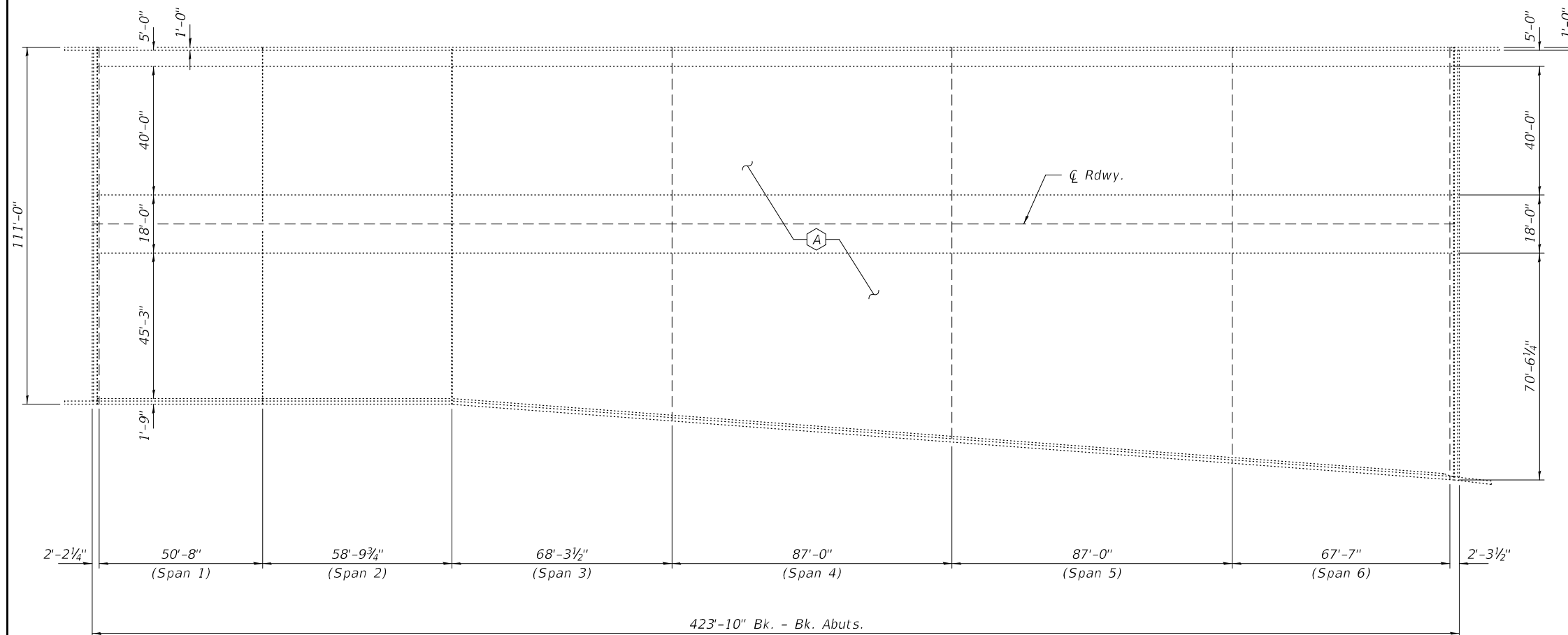
**TRAFFIC CONTROL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P./ RTE. 317	SECTION (48-B) BDS, BDR	COUNTY PEORIA	TOTAL SHEETS 22	SHEET NO. 9
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

(A) - Full Lane Sealant Waterproofing System.  
For details see sheet 4 of 4.

GENERAL NOTES

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Surface Removal (Deck)	Sq. Yd.	4641
Polymerized Hot Mix Asphalt Surface Course, 1L 9.5 Mix D, N50	Ton	390
Full Lane Sealant Waterproofing System	Sq. Yd.	4641
* Deck Slab Repair (Partial Depth)	Sq. Yd.	70
Polymerized Hot Mix Asphalt Binder Course, 1L-4.75, N50	Ton	36

\* Quantity is estimated. Location and size of patches is to be determined in the field by the Engineer.

Note:  
Patching, if necessary, is only intended to be done on Spans 3-6. No patching on Spans 1-2 is allowed to avoid damaging the PPC deck beams.



EXPIRES 11-30-2022

DESIGNED - Victor H. Veliz  
CHECKED - Adrian T. Halloway  
DRAWN - daburdell  
CHECKED - VHV ATH

EXAMINED - *Trig A. Deak*  
ENGINEER OF STRUCTURAL SERVICES  
PASSED - *Dr. Carl Pinye*  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - APRIL 27, 2021  
REVISED -  
REVISED -

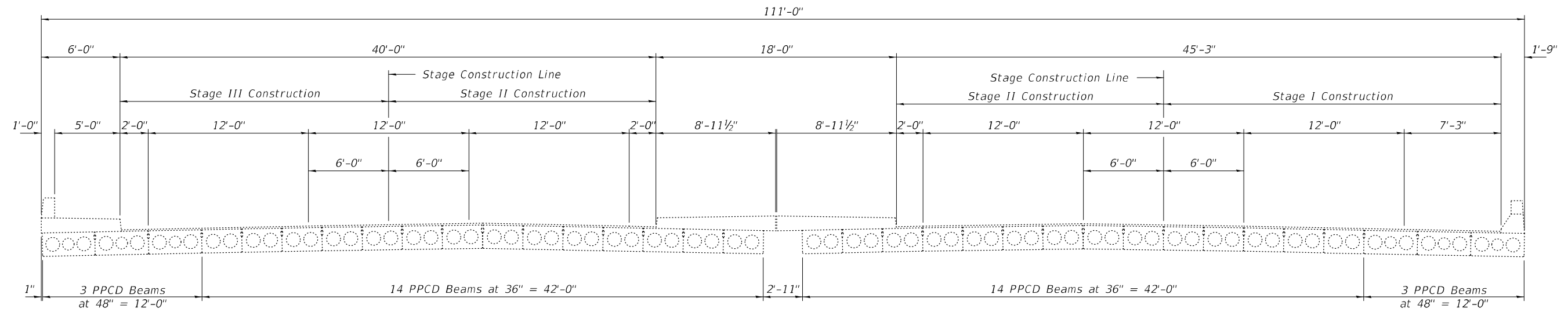
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
FAP 317 (US RTE 24) OVER KICKAPOO CREEK  
SN 072-0134

SHEET NO. 1 OF 4 SHEETS

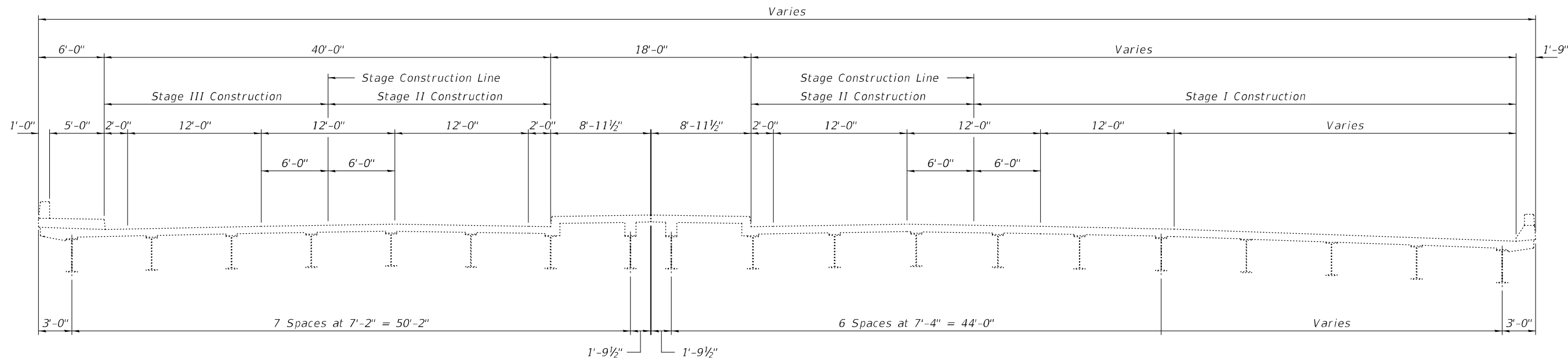
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317		PEORIA	22	10
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				



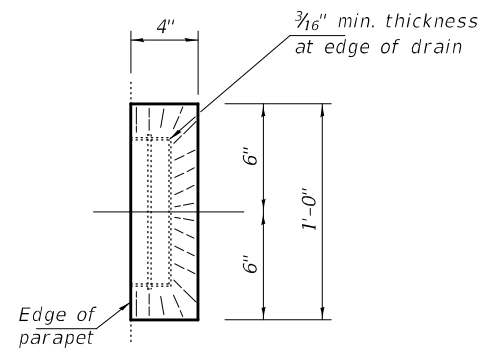


**STAGING CROSS SECTION**  
(Looking East)

DESIGNED - VHV	EXAMINED	DATE - APRIL 27, 2021	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTION - SPANS 1 &amp; 2 SN 072-0134</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - ATH	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -			317		PEORIA	22	11	
DRAWN - daburdell	PASSED <i>Carl Ruyter</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 68G03					
CHECKED - VHV ATH					SHEET NO. 2 OF 4 SHEETS					
					ILLINOIS FED. AID PROJECT					

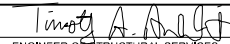
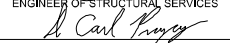


**STAGING CROSS SECTION**  
(Looking East)



**DRAIN DETAIL**  
\* slope to drain

DESIGNED - VHV  
CHECKED - ATH  
DRAWN - daburdell  
CHECKED - VHV ATH

EXAMINED  
PASSED  
  
  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

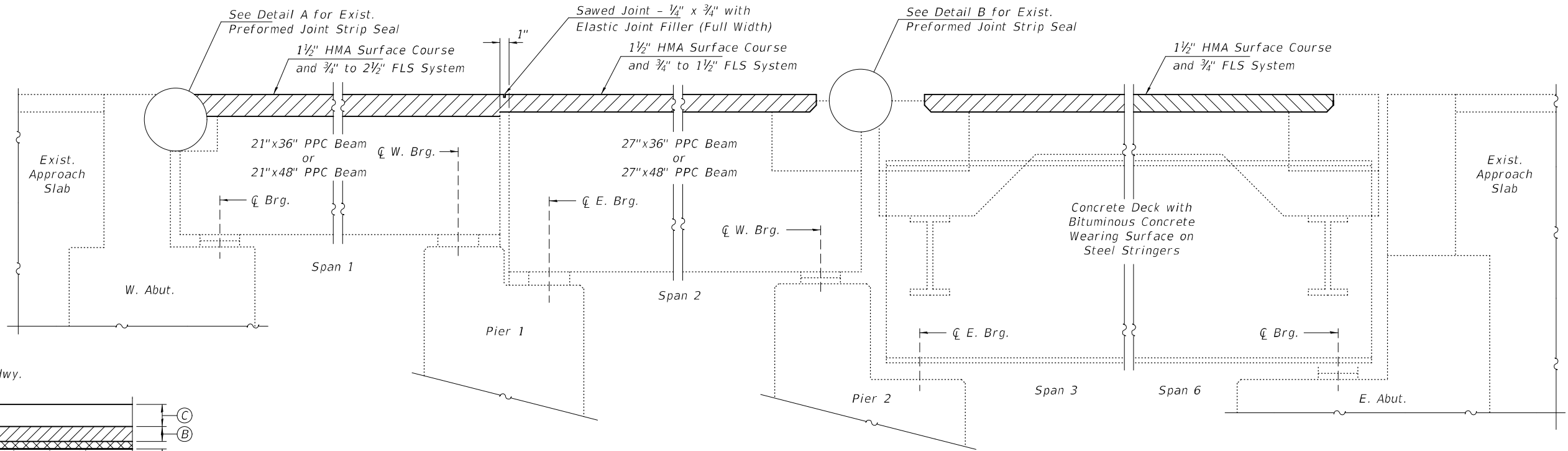
DATE - APRIL 27, 2021  
 REVISED -  
 REVISED -

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

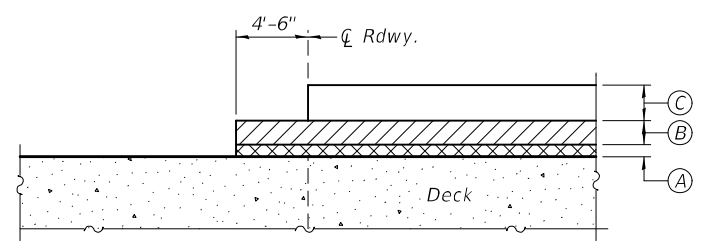
**CROSS SECTION - SPANS 3 THRU 6**  
**SN 072-0134**

SHEET NO. 3 OF 4 SHEETS

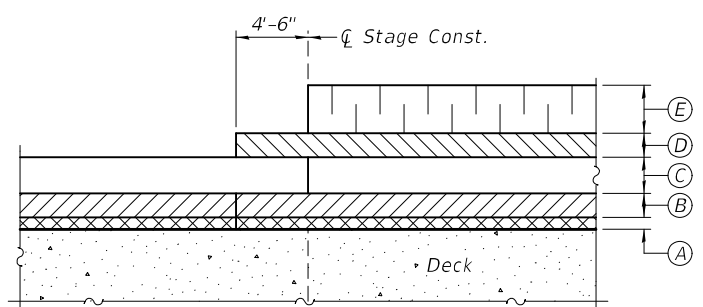
F.A.P. RTE. 317	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PEORIA	22	12
CONTRACT NO. 68G03				
ILLINOIS FED. AID PROJECT				



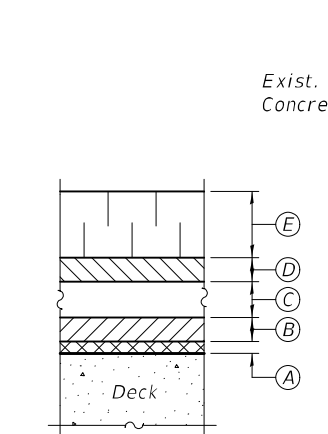
**BEAM ELEVATION**



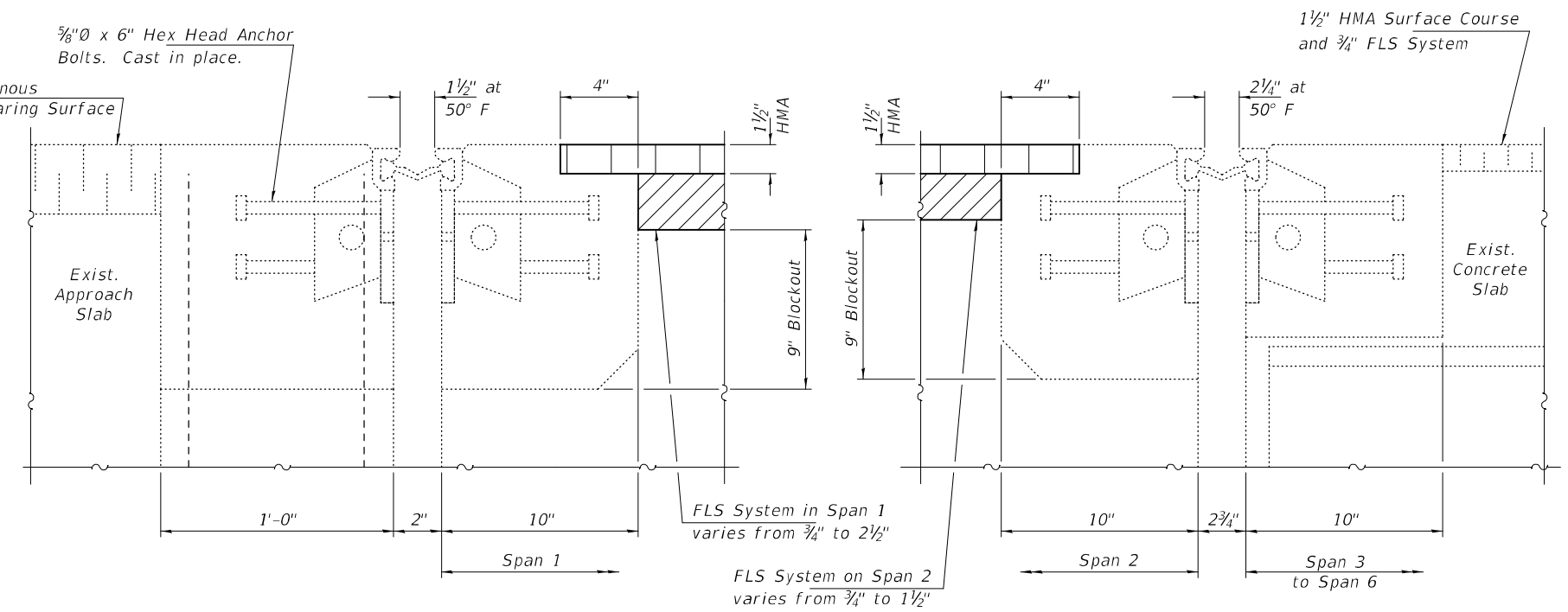
**FIRST LANE TACK COAT, FULL LANE SEALANT & IL-4.75 MIXTURE PLACEMENT**



**FIRST LANE FULL LANE SEALANT & IL-9.5FG MIXTURE PLACEMENT**



**FULL LANE SEALANT SYSTEM DIAGRAM**



**DETAIL "A"**

**DETAIL "B"**

**FULL LANE SEALANT LEGEND**

- (A) - 0.05 lb./sq. ft. Tack Coat
  - (B) - 0.25 lb./sq. ft. Full Lane Sealant
  - (C) - 0.75 inches IL-4.75 Mixture
  - (D) - 0.15 lb./sq. ft. Full Lane Sealant
  - (E) - 1.5 inches IL-9.5FG Mixture
- Included FLS pay item.  
 — Included HMA pay item.

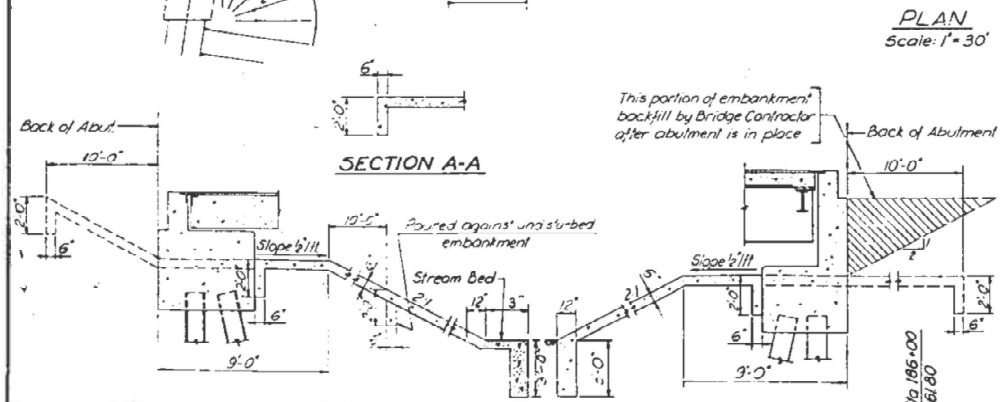
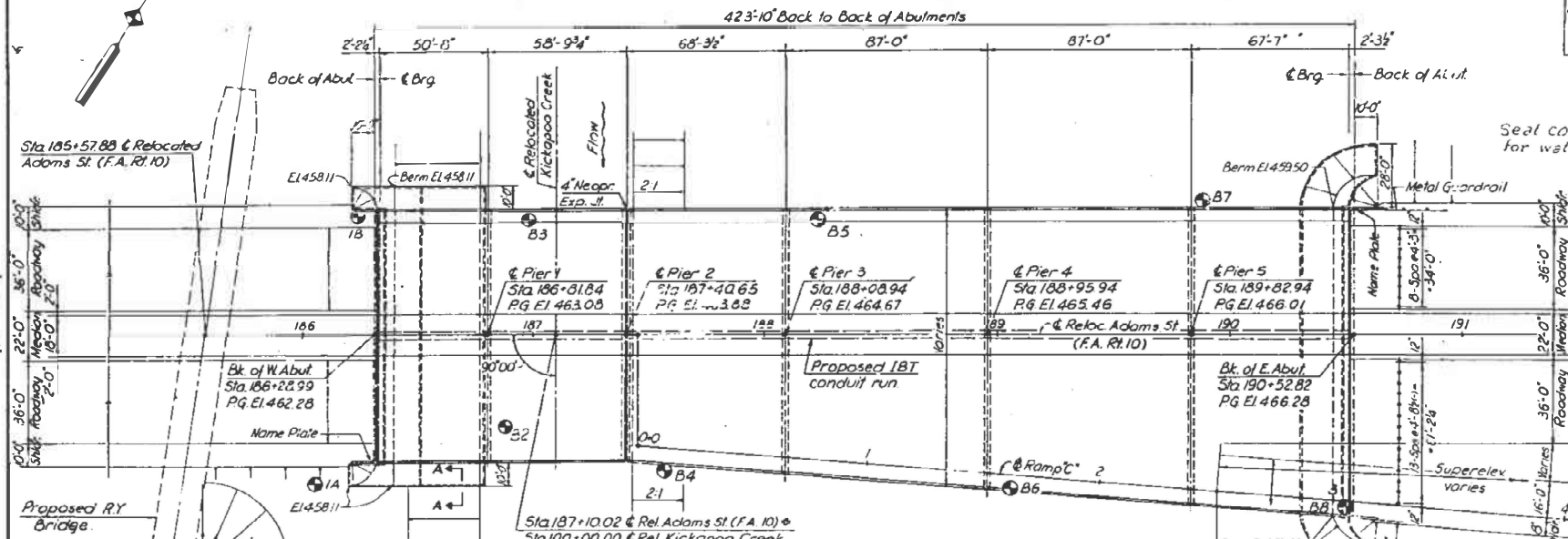
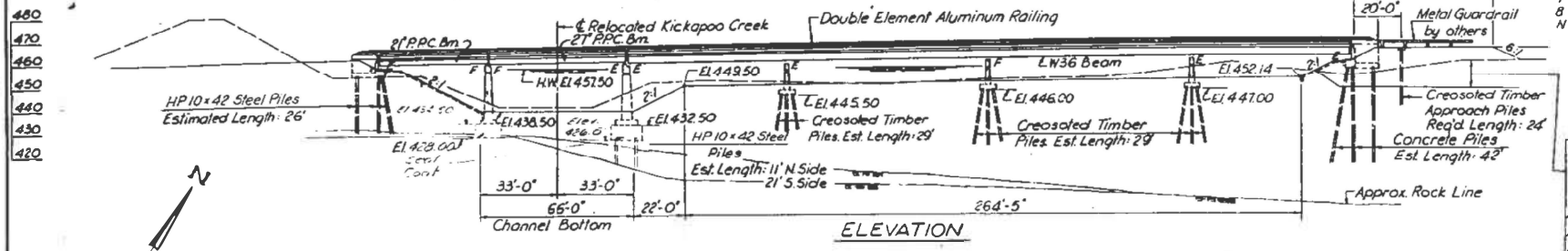
**Notes:**  
 Contractor must exercise extreme care during HMA removal operations to ensure that no damage is done to the existing joints. Any damage done to the joints must be repaired to the satisfaction of the Engineer at the Contractors expense.  
 New overlay must match the existing profile and the existing joints.  
 The FLS System includes 3/4" of IL-4.75 mixture. Any excess required in Spans 1 and 2 to account for the camber of the beams is being paid as Polymerized Hot Mix Asphalt Binder Course, IL-4.75, N50.

DESIGNED - VHV	EXAMINED - <i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	DATE - APRIL 27, 2021	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HMA OVERLAY DETAILS SN 072-0134</b>	F.A.P. RTE. 317	SECTION	COUNTY PEORIA	TOTAL SHEETS 22	SHEET NO. 13
CHECKED - ATH	PASSED - <i>Carl R. Berger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 4 OF 4 SHEETS		CONTRACT NO. 68G03		
DRAWN - daburdell		REVISED -			ILLINOIS FED. AID PROJECT				
CHECKED - VHV ATH									



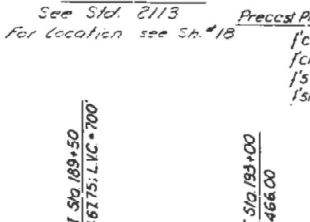
U.S.C. & G.S. BM-1: EL 461.90; Barknville, at E. edge of, on S. side of W. end of State Hwy Bridge over Kickapoo Creek, on top of parapet of concrete abutment, chiseled square (Sanitary District B.M.)

480  
470  
460  
450  
440  
430  
420



PLAN  
Scale: 1" = 30'

STATION 187+10.02  
BUILT 197 BY  
STATE OF ILLINOIS  
FAI RT 474 SEC. 48-B  
FA. PROJ. I-474-7( )  
LOADING H 520  
NAME PLATE  
See Std. 2113  
For location see St. #18



**SPECIFICATIONS**  
1969 A.A.S.H.O. as applicable  
**DESIGN STRESSES**

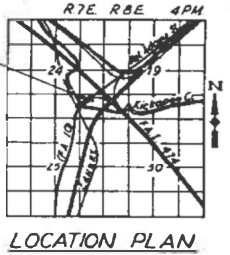
Precast Prestressed Conc. Beams  
fc = 4000 psi  
fc' = 4,000 psi  
fs = 248,000 psi (5 Strands)  
fs' = 173,600 psi (5 Strands)

Deck Slab  
Substructure, Curb & Parapet  
Structural Steel  
Reinforcement  
Footings  
LL Deflection  
7,200 Comp; 1,000 Non-Comp.

LOADING  
H 520-44  
25% Future Wearing Surface

\* Alternate to Aluminum  
\* Not in this Contract.

**WATERWAY INFORMATION**  
Drainage Area: 192,960 Acres  
Character: Hilly  
Required Opening: (50 Yr. Flood) 3,500 Sq Ft  
Proposed Opening: 3,525 Sq Ft



**LOCATION PLAN**  
Unsuitable Material to be removed and backfilled with porous granular embankment to 2'-0" above the water level, if any, in the excavation of the time of replacement and above that level with suitable earth embankment (By Other)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 474	48-B	PEORIA	35	4
FED. ROAD DIV. NO. 7			ILLINOIS	PROJECT

**GENERAL NOTES**

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN. FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4" & OPEN HOLES 13/16" & UNLESS OTHERWISE NOTED.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 112,520 LBS

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

EXPANSION GUARDS WHICH ARE NOT CAST IN THE PRECAST UNIT SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 503.07(c) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM PLANES OF BEAMS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH, WEIGHING 50# PER 100 SQ. FT.

LAYOUT OF SLOPE WALLS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DRIVE 1 STEEL, 1 TIMBER AND 1 CONCRETE TEST PILES IN A PERMANENT LOCATION AT PIER 2, PIER 4 AND EAST ABUTMENT RESPECTIVELY AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

CONCRETE PILES AT EAST ABUTMENT SHALL BE DRIVEN IN HOLES PRECURED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 513.05(c) OF THE STANDARD SPECIFICATIONS.

AN ALTERNATE STRAND PATTERN USING EXTRA HIGH STRENGTH PRESTRESSING STRAND (270 K.S.I.) IS PERMITTED.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH EQUAL TAR INTERLAYER PROTECTIVE COAT IS APPLIED.

BEARING SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

**TOTAL BILL OF MATERIAL**

Item	Unit	Superstr.	Substr.	Total
Biluminous Concrete Surface Course, Class I	Ton	427	—	427
Structure Excavation	Cu Yd	—	860	860
Seal Coat Concrete	Cu Yd	—	740	740
Protective Coat	Sq Yd	1,441	18	1,459
Class 'A' Concrete	Cu Yd	—	1,477.5	1,477.5
Class 'X' Concrete	Cu Yd	1,264.6	211.5	1,476.1
PP Concrete Deck Beam 21' Deep	Sq Ft	5,530	—	5,530
PP Concrete Deck Beam 27' Deep	Sq Ft	6,332	—	6,332
Structural Steel	Lump Sum	1	—	1
Stud Shear Connectors	Each	11,514	—	11,514
Aluminum Railing Type L	Lin Ft	884	—	884
Slip Railing Type M	Lin Ft	884	—	884
Reinforcement Bars	Lb	289,340	75,470	364,810
Creosoted Piles 201 to 38 Ft	Lin Ft	—	9,556	9,556
Steel Piles HP10X42	Lin Ft	—	1,272	1,272
Concrete Piles	Lin Ft	—	366	366
Test Pile Timber	Each	—	1	1
Test Pile Steel HP10X42	Each	—	1	1
Test Pile Concrete	Each	—	1	1
Name Plate	Each	—	2	2
Slope Wall 6"	Sq Yd	—	1,431	1,431
Coal Tar Interlayer Protective Coat	Sq Yd	4,405	—	4,405
Prelformed Joint Sealer 2 1/2"	Lin Ft	114	—	114
Neoprene Expansion Joint 4"	Lin Ft	113	—	113
Neoprene Expansion Joint 2"	Lin Ft	137	—	137
Cofferdam (Pier 1)	Each	—	1	1
Cofferdam (Pier 2)	Each	—	1	1
Cofferdam Excavation	Cu Yd	—	1,375	1,375

**GENERAL PLAN**  
RELOCATED ADAMS STREET (FA 10)  
OVER  
KICKAPOO CREEK  
STA. 187+10.02  
PEORIA COUNTY SECTION 48-B  
CHRISTIAN-ROSE AND ASSOCIATES  
ENGINEERS  
CHICAGO, ILLINOIS  
SHEET  
1 OF 35

Revised Proposed Joint Sealer from 560 to 114 Lin Ft. Deleted Rock Excavation 92 cu yds. Added Seal Coat Concrete 740 cu yds. Structure Excavation from 1875 to 860 cu yds. Total A Comp. from 1157 to 1477.5 cu yds. Added Cofferdam (Pier 1) 1 Each and Cofferdam (Pier 2) 1 Each. Total from 363,780 to 364,810 Lb. Added Cofferdam Excavation 1375 cu yds. 3-8-73 G.R.

FOR INFORMATION ONLY

USER NAME	DESIGNED	REVISED	EXISTING PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
= hudelsonme	-	-	FOR INFORMATION ONLY	317	(48-B)BDS,BDR	PEORIA	22	14
DESIGNED BY	DRAWN	REVISIONS	SCALE:	ILLINOIS FED. AID PROJECT				
DRAWN BY	CHECKED	REVISIONS	SHEET OF SHEETS	CONTRACT NO. 68G03				
CHECKED BY	DATE	REVISIONS	STA. TO STA.					
PLOT SCALE = 100,000" / in.	DATE	REVISIONS	TO STA.					
PLOT DATE = 1/29/2021	DATE	REVISIONS	TO STA.					

MODEL: D:\draft FILE: M:\E:\pvt\ludelsonme\dot\illinois\gov\pww\DOT\Documents\DOT\Office\District: A\Projects\68G03\CAD\Drawings\CAD\Drawings\68G03\shp-plan.dwg

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
F.A.P. 317	(48B) PEORIA	29	15 SHEETS
D-94-062-05			

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

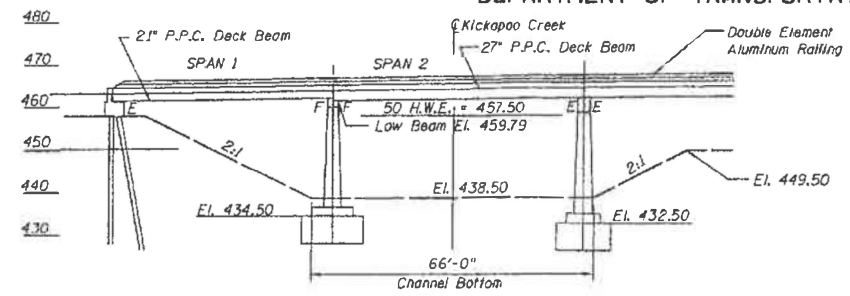
- The Contractor is advised that the existing PCC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
- Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (LL Modified).
- Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10(c) of the Standard specifications and are included in Preformed Joint Strip Seal.
- Plan dimensions and details relative to existing structures have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope or work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- No in-stream work will be allowed on this project.
- Existing name plate shall be cleaned and relocated adjacent to new name plate. Cost incidental to "Name Plates".
- Note Deleted.
- Note Deleted.
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hrs. prior to grouting the shear keys.
- The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements ASTM A 790. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.
- If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, 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 beams. To distribute load to multiple beams and protect the concrete, 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. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curling the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.
- Expansion joint plates and attached bars shall be AASHTO M 270 Grade 50.
- Contractor shall provide the necessary support for the existing Telephone Duct Bank suspended from the existing median throughout the project. It shall be the Contractor's responsibility to call out additional inserts required in Beams 18 & 19 to accommodate this support.
- Reinforcement bars designated (E) shall be epoxy coated.
- The existing steel wide flange beams (2) used as temporary carrier beams under span 1 shall remain the property of the state. In addition, the steel "shear key clamping" plate and existing transverse ties shall remain the property of the state. All said materials shall be delivered by the contractor to the IDOT building maintenance yard located on Camp Street in East Peoria, Illinois. Phone #309-699-3822. Costs are included with removal of existing super structure.

U.S.C. & G.S. B.M. - I: EL 461.910 Bartonville, on S. side of W end of State Hwy, Bridge over Kickapoo Creek, on top of parapet of concrete abutment chiseled square (Sanitary District B.M.)

Existing structure consists of 1 span 21" PCC deck, 1 span 27" PCC deck beam & 3 spans of cast in place deck on 36" beams.

Salvage existing aluminum railing & reinf.

Staging: See sheets 2-5.



PARTIAL ELEVATION

**APPROVED**  
For Structural Adequacy Only

*Robert E. Anderson*  
Engineer of Bridges & Structures

- INDEX OF SHEETS**
- GENERAL PLAN AND ELEVATION
  - STAGE 1-3 REMOVAL AND CONSTRUCTION
  - STAGING DETAILS
  - TYPICAL BRIDGE SECTION
  - PARAPET, MEDIAN, AND SIDEWALK DETAILS
  - PARAPET AND RAILING LAYOUT
  - 21" BEAM DETAILS SPAN 1
  - 27" BEAM DETAILS SPAN 2
  - BEAM TYPES
  - MISCELLANEOUS DETAILS
  - PREFORMED JOINT STRIP SEAL
  - TYPE L ALUMINUM RAILING
  - ANCHOR BOLT DETAILS
  - TEMPORARY CONCRETE BARRIER

**LOADING HS20-44**  
(Existing structure designed for 25#/sq. ft. for Future Wearing Surface.)

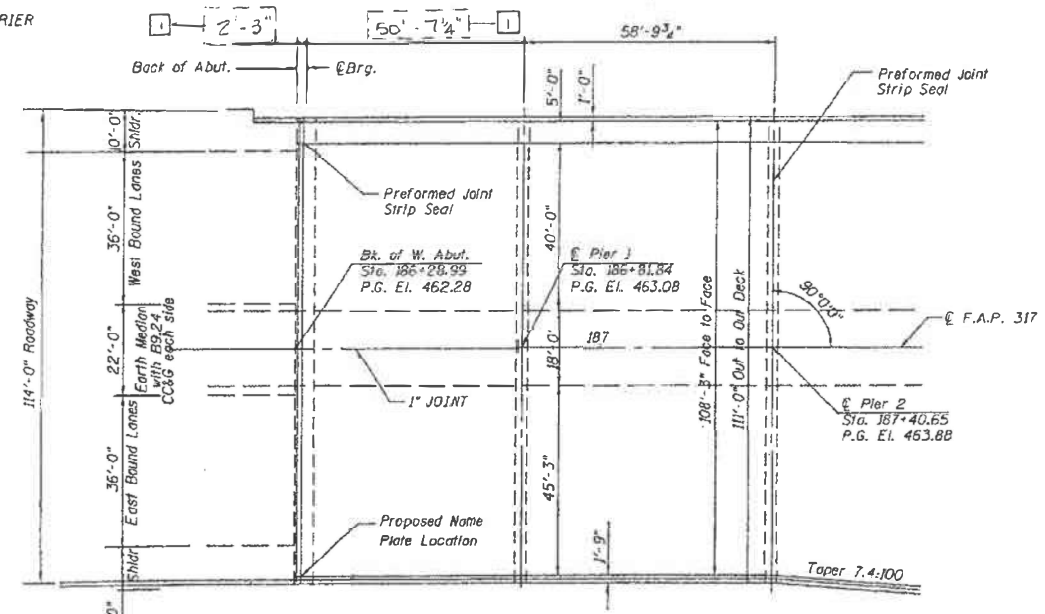
**SPECIFICATIONS**  
2002 AASHTO (2002 INTERIMS)

**SPECIFICATIONS**

$f'_c = 5,000$  psi (precast)  
 $f'_c = 4,000$  psi (precast)  
 $f'_c = 3,500$  psi (cast-in-place)  
 $f'_s = 270,000$  psi (strands)  
 $f'_s = 201,960$  psi (strands)  
 $f_y = 60,000$  psi (reinf. bars)

**SEISMIC DATA 1990**

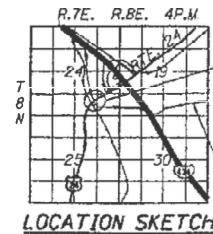
Seismic Performance Category (SPC) = A  
 Bedrock Acceleration Coefficient (A) = 0.048  
 Site Coefficient (S) = 1.2



PARTIAL PLAN

KICKAPOO CREEK  
STATION 187+10.02  
BUILT 200. BY  
STATE OF ILLINOIS  
F.A.P. 317 SEC. (48B)  
LOADING HS20  
STR. NO. 072-0134

**NAME PLATE**  
See Sta. 515001



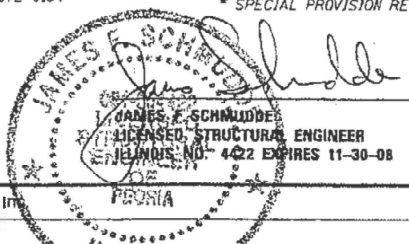
Prepared by: Foth & Van Dyke and Associates, Inc.

TOTAL BILL OF MATERIAL

PAY ITEM	DESCRIPTION	UNITS	TOTAL
40803340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N/O	TON	88
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	134
50300300	PROTECTIVE COAT	SQ YD	375
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	5530
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	6332
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9927
50900305	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	220
51500100	NAME PLATES	EACH	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	224
52100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1040
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	51
*20001900	ASBESTOS BEARING PAD REMOVAL	EACH	144
	CONNECTOR FOR TYPE L ALUMINUM RAILING	EACH	22

\* SPECIAL PROVISION REQUIRED

GENERAL PLAN AND ELEVATION  
F.A.P. 317 (U.S. RTE. 24)  
STRUCTURE 072-0134  
PEORIA COUNTY, ILLINOIS  
STATION 187+10.02



5-10-07  
DATE

DESIGNED	JRG
CHECKED	JFS
DRAWN	ACJ
CHECKED	JRG/JFS

REVISED 08-23-07  
JFS

FOR INFORMATION ONLY

USER NAME = hudelsonme	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS FOR INFORMATION ONLY	F.A.P. RTE. 317	SECTION (48-B)BDS.BDR	COUNTY PEORIA	TOTAL SHEETS 22	SHEET NO. 15
PLOT SCALE = 100.0000' / in.	DRAWN =	REVISED =	SCALE:	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO. 68G03		
PLOT DATE = 1/29/2021	CHECKED =	REVISED =				ILLINOIS FED. AID PROJECT			

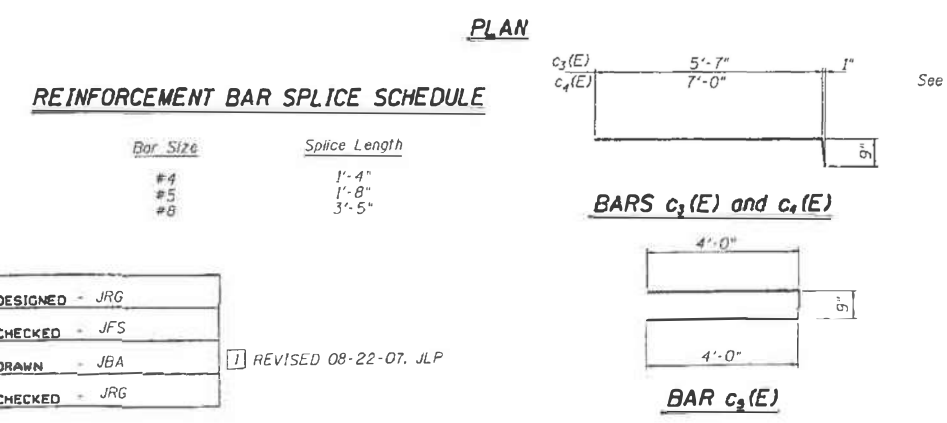
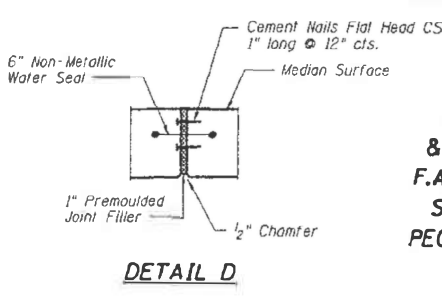
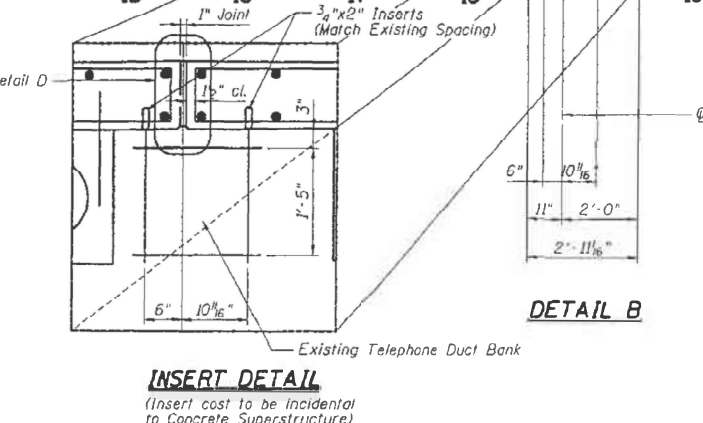
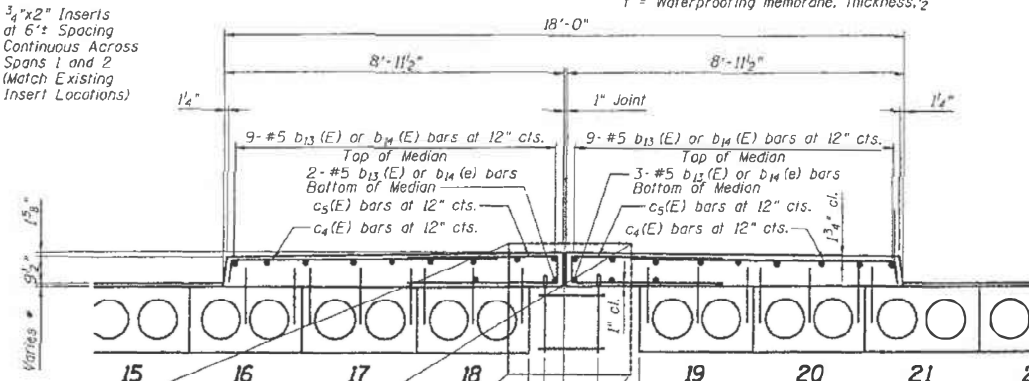
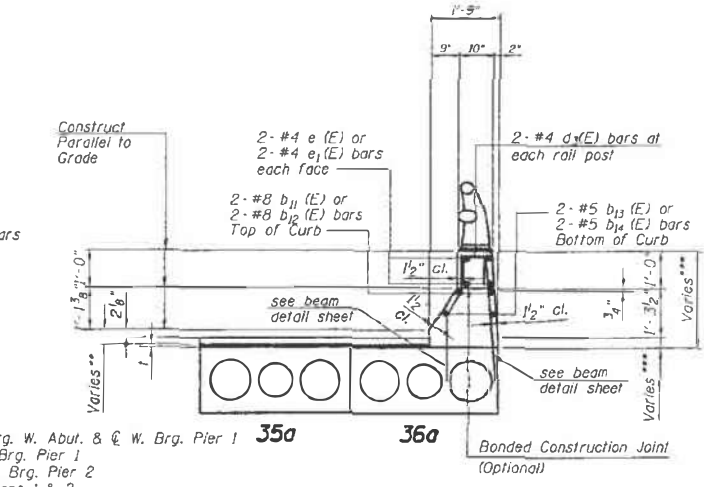
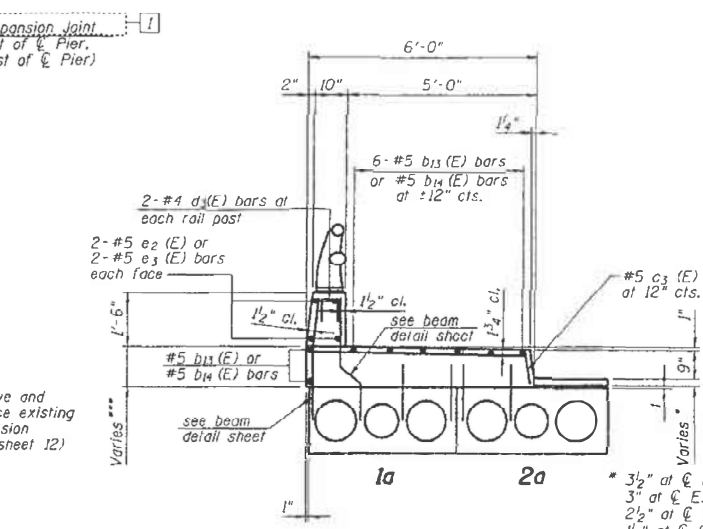
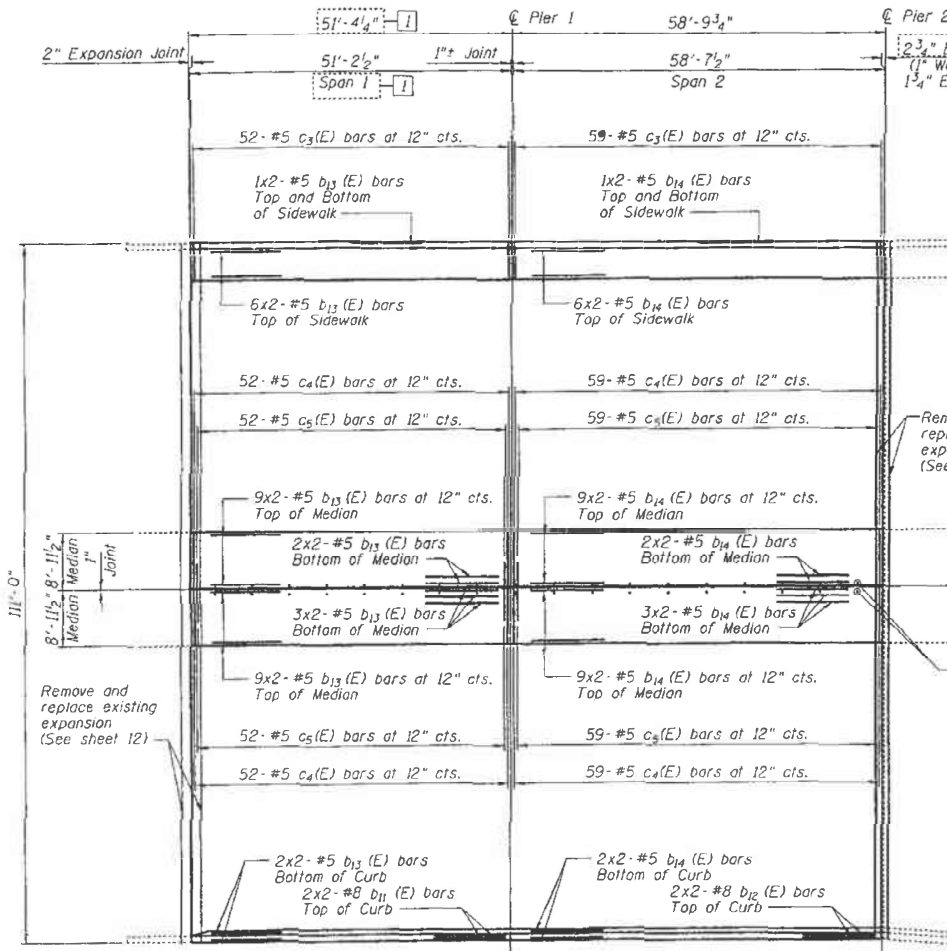




STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Contract No. 68480

F.A.P. No.	SECTION	STATION	TOTAL SHEETS	SHEET NO.
317	(48-B)	BD, BDR	29	19
SHEET NO. 7				
16 SHEETS				
D-94-062-05				



**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
b <sub>13</sub> (E)	4	#8	27'-2"	
b <sub>14</sub> (E)	4	#8	31'-0"	
b <sub>13</sub> (E)	66	#5	26'-4"	
b <sub>14</sub> (E)	66	#5	30'-1"	
c <sub>3</sub> (E)	111	#5	6'-4"	
c <sub>4</sub> (E)	222	#5	7'-9"	
c <sub>5</sub> (E)	222	#5	8'-9"	
Reinforcement Bars (Epoxy Coated) lb. 9.127				
Conc. Superstructure Cu. Yd. 131				
Protective Coat Sq. Yd. 375				

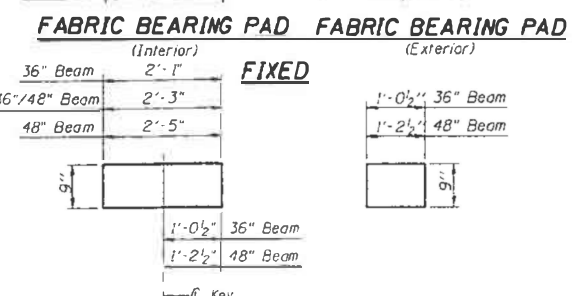
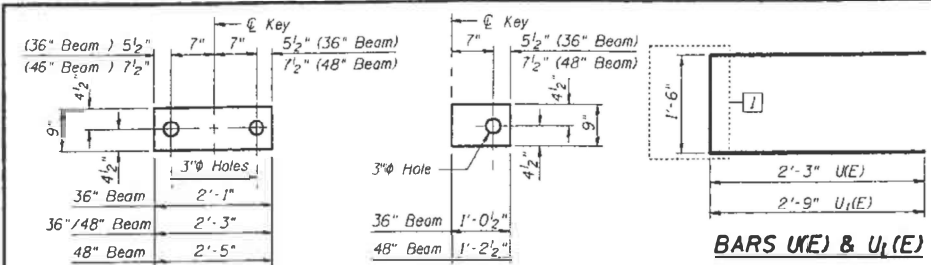
**PARAPET, MEDIAN & SIDEWALK DETAILS**  
F.A.P. 317 (U.S. RTE. 24)  
STRUCTURE 072-0134  
PEORIA COUNTY, ILLINOIS  
STATION 187+00.02

FOR INFORMATION ONLY

USER NAME = hudsonme	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS FOR INFORMATION ONLY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			317	(48-B)BDS,BDR	PEORIA	22	17	
PLOT DATE = 1/29/2021	CHECKED -	REVISED -			CONTRACT NO. 68G03					
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

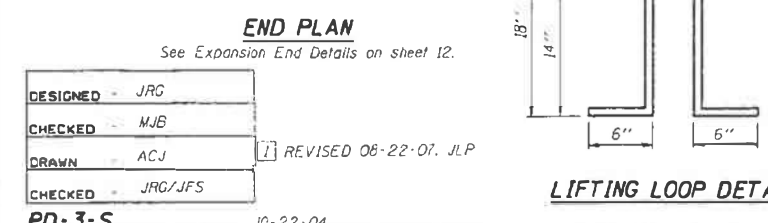
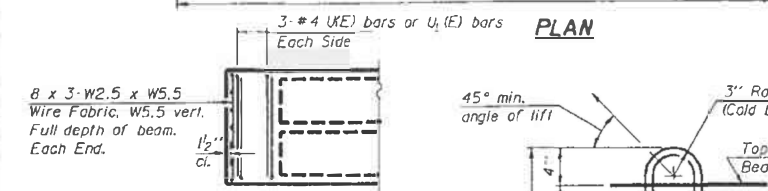
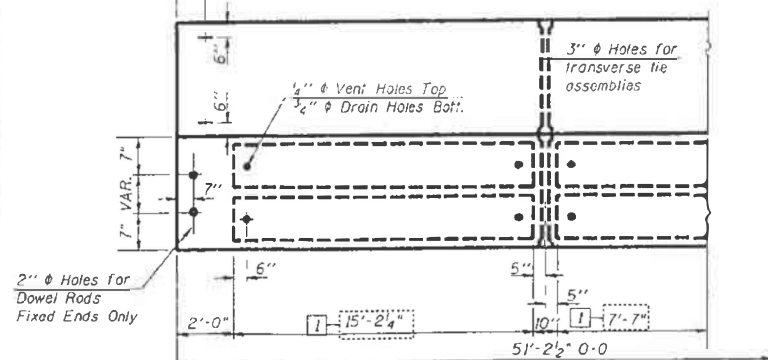
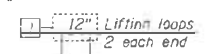
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	SHEET NO.
F.A.P. 317 (48B) PEORIA	29	21	16 SHEETS

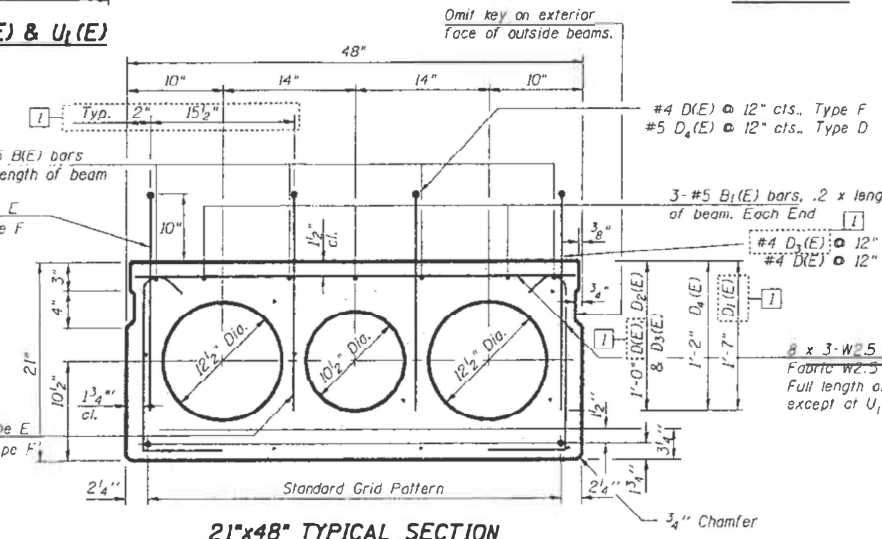


SHIM NOTE:  
Provide two (2) 1/8" thick fabric Shim Pads for all beams.

1'-0 1/2" x 9" - 32 locations  
 1'-2 1/2" x 9" - 8 locations



DESIGNED - JRC  
 CHECKED - MJB  
 DRAWN - ACJ  
 CHECKED - JRC/JFS  
 PD-3-S  
 REVISED 06-22-07, JLP  
 10-22-04



21"x48" TYPICAL SECTION  
 1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
 6-Strands 1 3/4" up, 10-Strands 3/4" up, 2-Strands 6" up

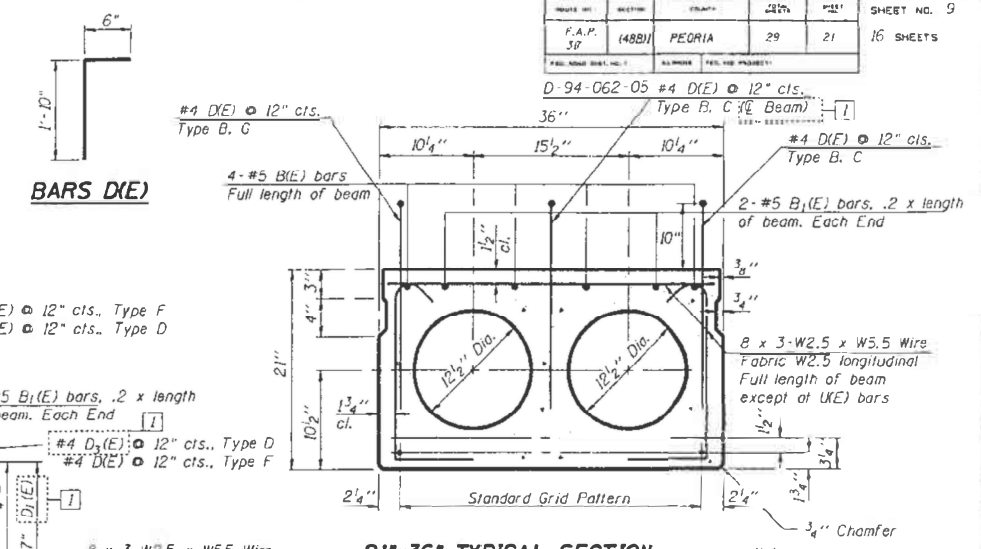
**BAR LIST**

No. Beams	Beam Type A	Beam Type B	Beam Type C	Beam Type D	Beam Type E	Beam Type F	Beam Type G	Beam Type H	Size	Length	Shape
22	4	4	1	1	1	1	1	3			
B (E)	4	4	4	4	4	4	4	4	#5	50'-11"	
B1 (E)	4	4	4	6	6	6	4	6	#5	10'-3"	
U (E)	10	10	10				10		#4	6'-0"	
U1 (E)				10	10	10		10	#4	7'-0"	
U2 (E)	4	4	4	4	4	4	4	4	#4	6'-3"	
D1 (E)		153	102		102	102	51		#4	2'-4"	
D2 (E)							51		#4	4'-2"	
D3 (E)							51		#4	3'-5"	
D4 (E)									#5	3'-2"	
E (E)	4	4	4	5	5	5	4	5	#5	2'-0"	
E2 (E)	4	4	4	5	5	5	4	5	#4	2'-6"	

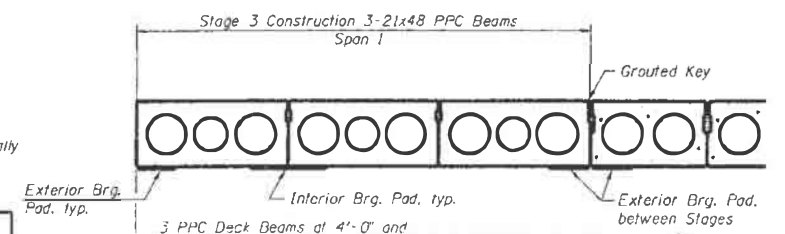
FOR ONE BEAM ONLY  
 Bar U2 (E), E (E) & E2 (E) shown on Sheet 12  
 Beam types are shown on Sheet 6  
 Bars D1 (E), D2 (E), D3 (E) & D4 (E) shown on Sheet 11

- NOTES (SHEET 9, 10, 11)**
1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
  2. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
  3. Lifting loops shall be 3-1/2"  $\phi$ -270 ksi strands, as shown.
  4. The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
  5. Non prestressing steel shall conform to AASHTO A706 Grade 60.
  6. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
  7. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
  8. Corrosion inhibitor, as covered in section 1021 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
  9. Required Release Strength, f'ci, shall be 4000 p.s.i.
  10. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Prestressed Concrete Products.

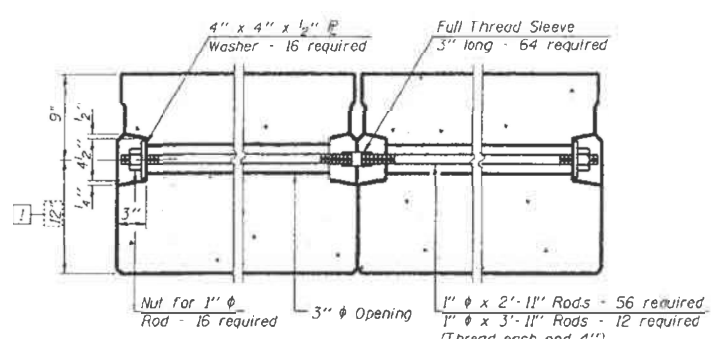
Prepared by: Foth & Van Duke and Associates, Inc.



21"x36" TYPICAL SECTION  
 1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
 7-Strands 1 3/4" up, 6-Strands 3/4" up, 2-Strands 9" up



HALF CROSS SECTION  
 3 PPC Deck Beams at 4'-0" and  
 14 Precast Prestressed Concrete Deck Beams at 3'-0" = 54'-0"



TYPICAL TRANSVERSE TIE ASSEMBLY  
 Nut for 1"  $\phi$  Rod - 16 required  
 3"  $\phi$  Opening  
 1"  $\phi$  x 2'-11" Rods - 56 required  
 1"  $\phi$  x 3'-11" Rods - 12 required  
 (Thread each end 4")

**BILL OF MATERIAL**

Precast Prestressed Concrete Deck Beams (21" Depth)	50 FT	5.530
-----------------------------------------------------	-------	-------

21" BEAM DETAILS SPAN 1  
 F.A.P. 317 (U.S. RTE. 24)  
 STRUCTURE 072-0134  
 PEORIA COUNTY, ILLINOIS  
 STATION 187+10.02

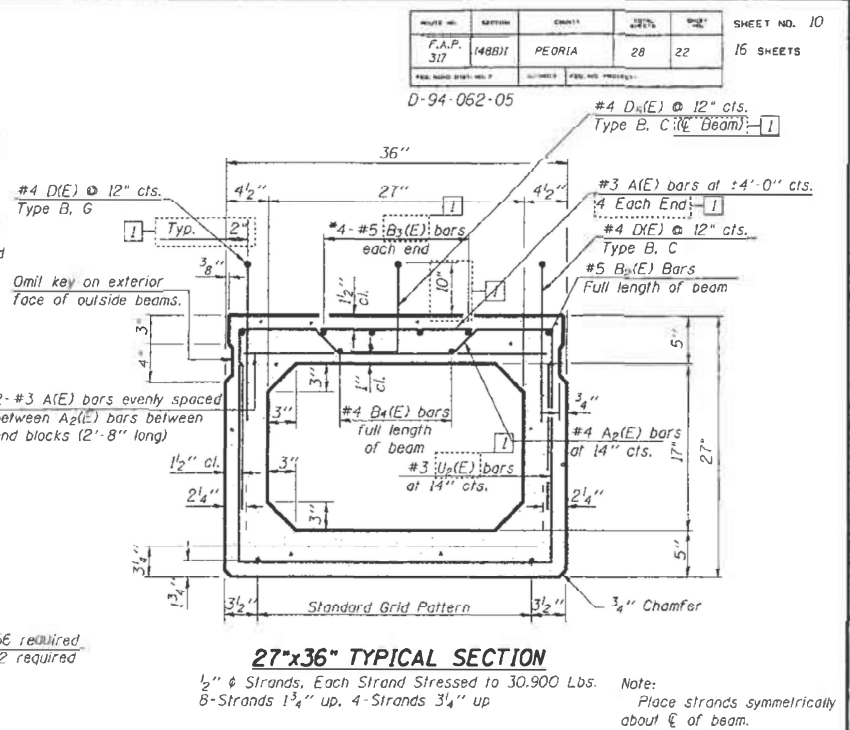
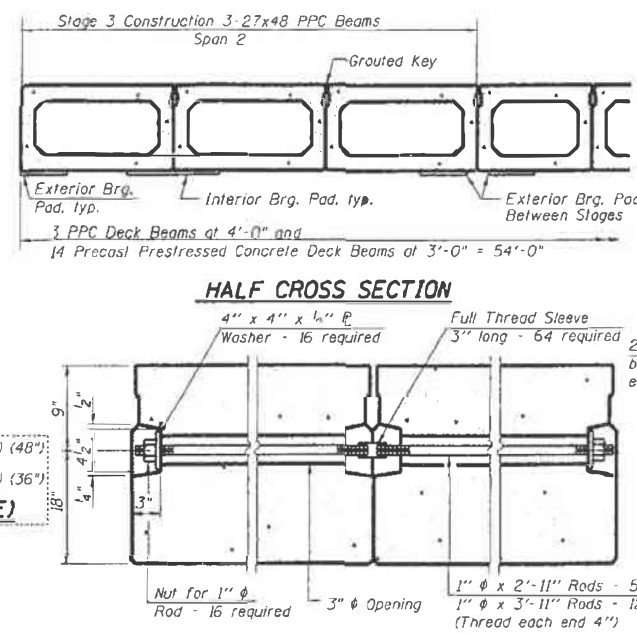
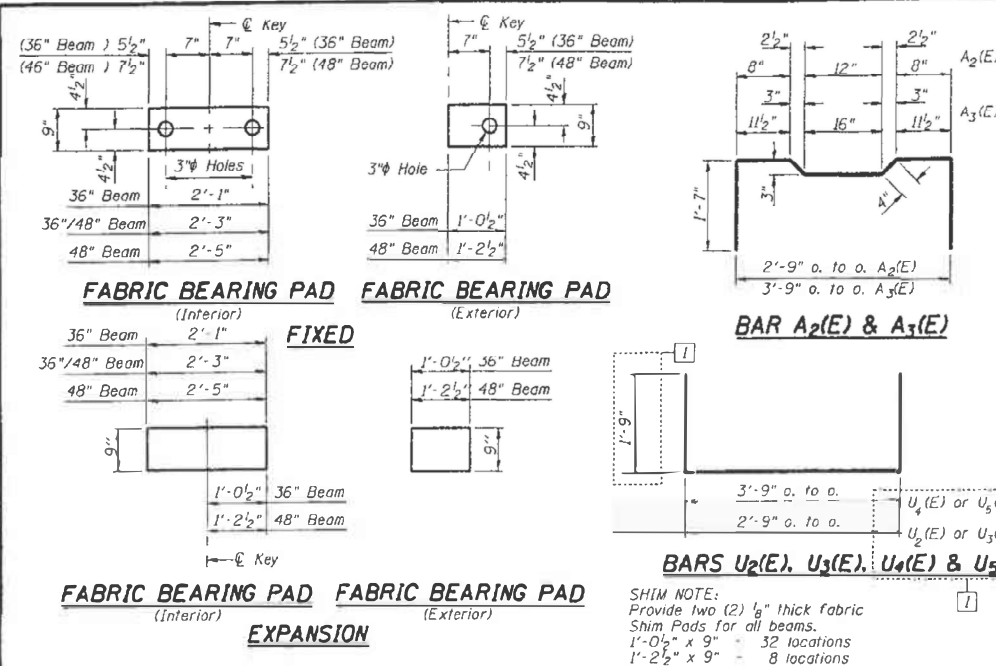
FVN # 6589 RN

FOR INFORMATION ONLY

USER NAME = hudelsonme	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS FOR INFORMATION ONLY	F.A.P. RTE. 317	SECTION (48-B)BDS,BDR	COUNTY PEORIA	TOTAL SHEETS 22	SHEET NO. 18
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISOR -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 68G03	
PLOT DATE = 1/29/2021	CHECKED -	REVISOR -				ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET NO.	10
TOTAL SHEETS	16
F.A.P. 317	SECTION (48-B)
PEORIA	28 22
DATE	10-22-04

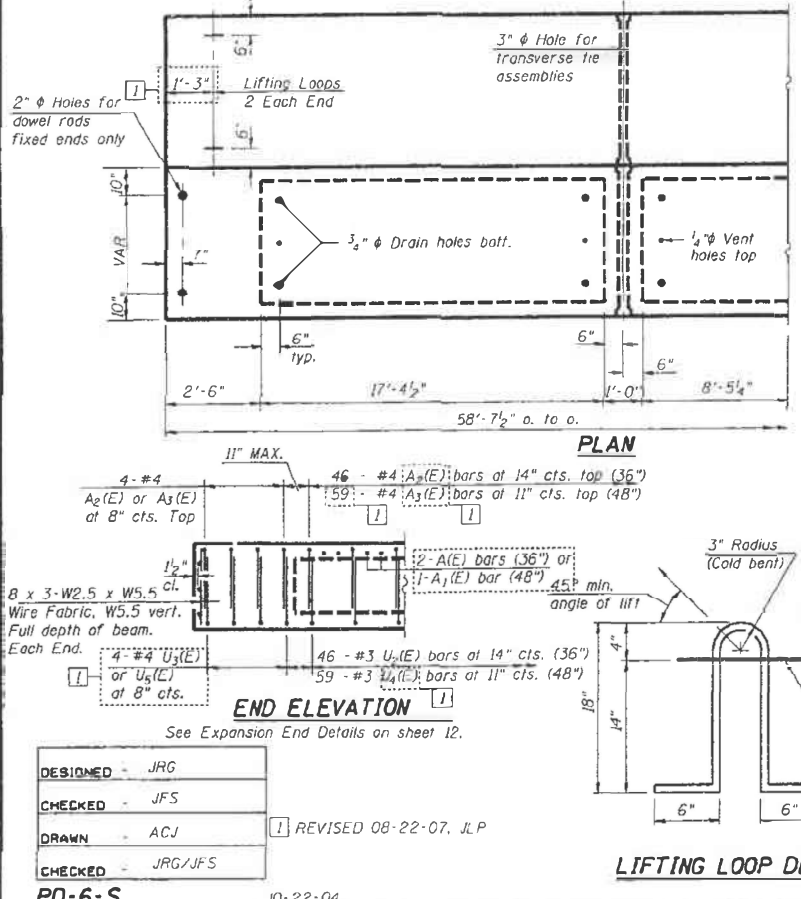


**SHIM NOTE:**  
 Provide two (2) 1/8" thick fabric Shim Pads for all beams.  
 1'-0 1/2" x 9" = 32 locations  
 1'-2 1/2" x 9" = 8 locations

**BAR LIST**

No. Beams	Beam Type A	Beam Type B	Beam Type C	Beam Type D	Beam Type E	Beam Type F	Beam Type G	Beam Type H	Size	Length	Shape
22	4	1	1	1	1	1	1	3			
A <sub>1</sub> (E)	102	102	102					102	#3	2'-8"	
A <sub>2</sub> (E)	53	53	53	70	70	70		70	#3	3'-8"	
A <sub>3</sub> (E)				66	66	66	53	66	#4	6'-1"	
B <sub>2</sub> (E)	2	2	2	5	5	5	2	5	#5	58'-4"	
B <sub>3</sub> (E)	8	8	8	8	8	8	8	8	#5	11'-8"	
B <sub>4</sub> (E)	2	2	2	4	4	4	2	4	#4	58'-4"	
C(E)	6	6	6	7	7	7	6	7	#5	3'-0"	
U <sub>2</sub> (E)	46	46	46				46		#3	34'-0"	
U <sub>3</sub> (E)	8	8	8	59	59	59	8	59	#4	4'-0"	
U <sub>4</sub> (E)				59	59	59		59	#3	5'-6"	
U <sub>5</sub> (E)				8	8	8		8	#4	5'-6"	
U <sub>7</sub> (E)	4	4	4	4	4	4	4	4	#4	6'-3"	
D <sub>1</sub> (E)		116	58						#4	2'-4"	
D <sub>2</sub> (E)				58	58	58			#4	3'-5"	
D <sub>3</sub> (E)					58	58			#4	3'-2"	
D <sub>4</sub> (E)							58		#4	2'-4"	
D <sub>5</sub> (E)								58	#6	4'-2"	
E <sub>1</sub> (E)	4	4	4	5	5	5	4	5	#5	3'-7"	
E <sub>2</sub> (E)	4	4	4	5	5	5	4	5	#4	2'-6"	

**NOTES**  
 1. See sheet 9 for notes.



DESIGNED - JRG  
 CHECKED - JFS  
 DRAWN - ACJ  
 CHECKED - JRG/JFS

PD-6-S 10-22-04

Prepared by: Foth & Van Dyke and Associates, Inc.

**BILL OF MATERIAL**

Precast Prestressed Concrete Deck Beams (27" Depth)	50 FT 6,332
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**27" BEAM DETAILS SPAN 2**  
 F.A.P. 317 (U.S. RTE. 24)  
 STRUCTURE 072-0134  
 PEORIA COUNTY, ILLINOIS  
 STATION 187+10.02

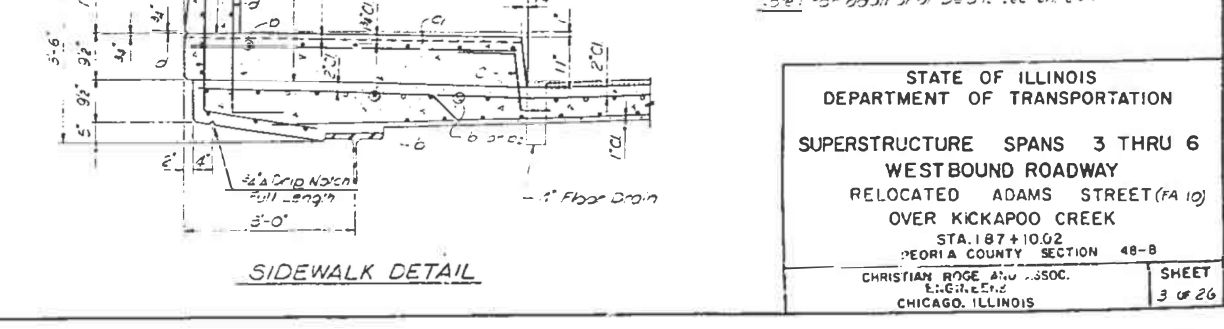
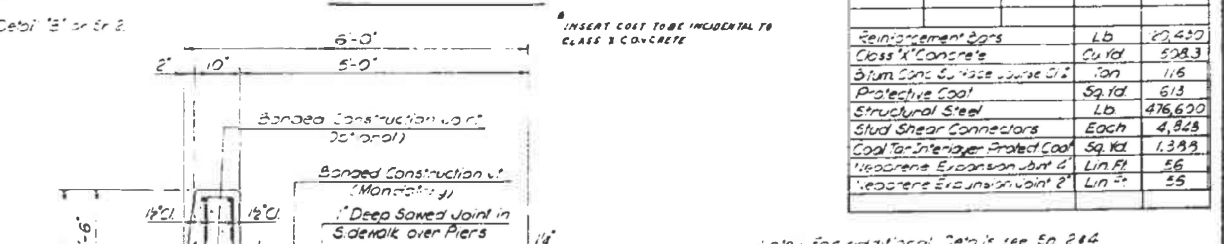
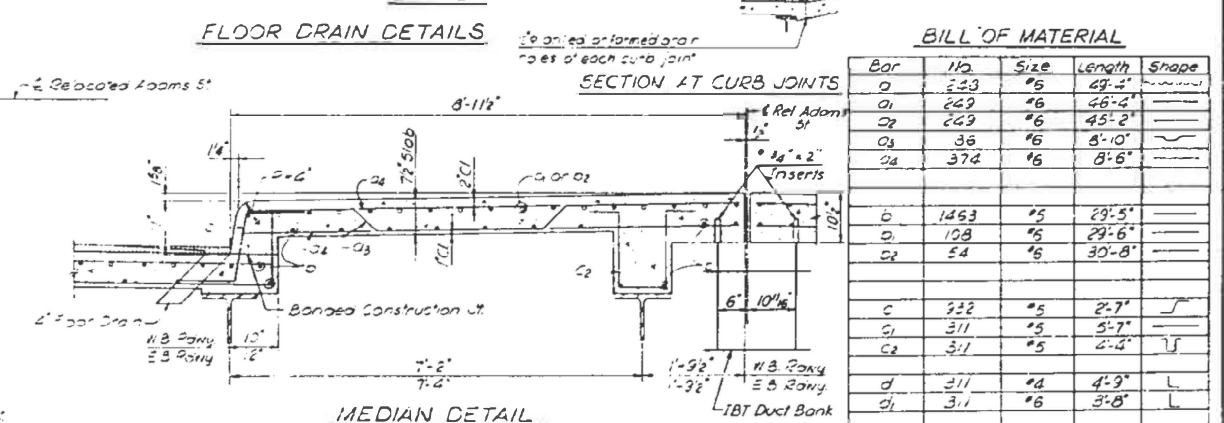
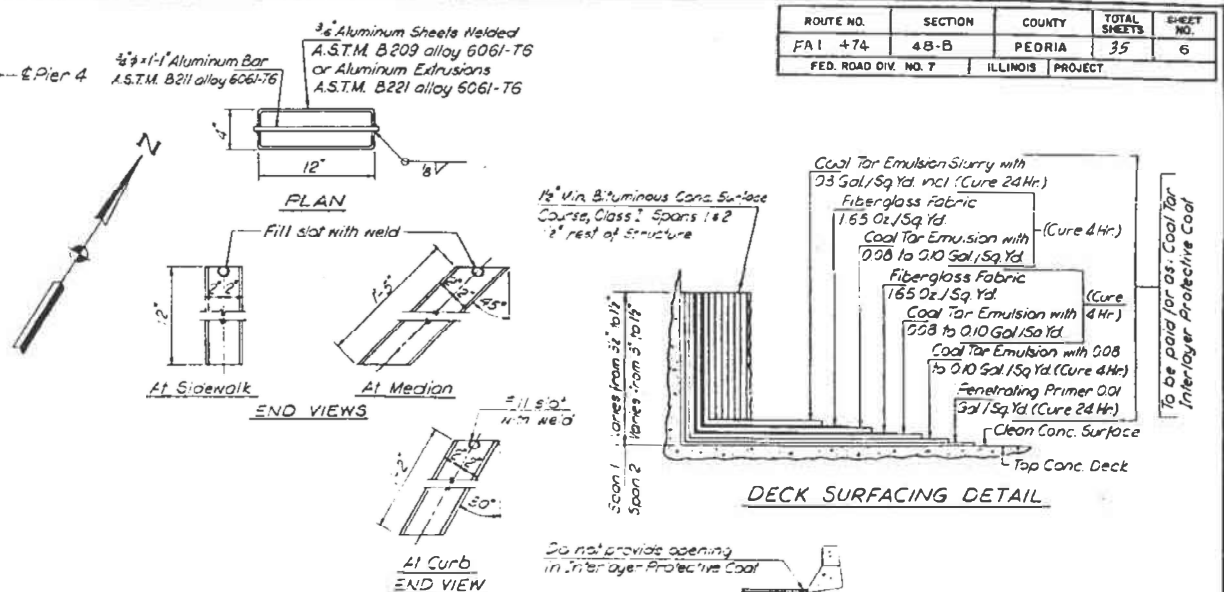
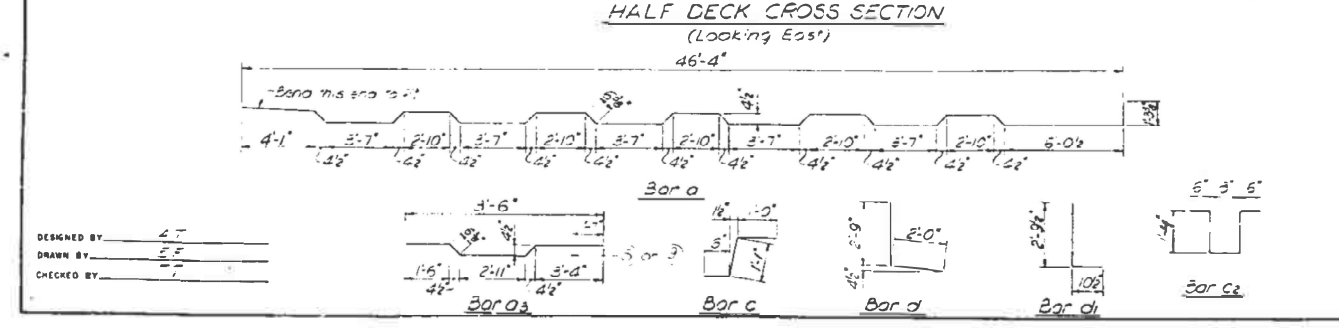
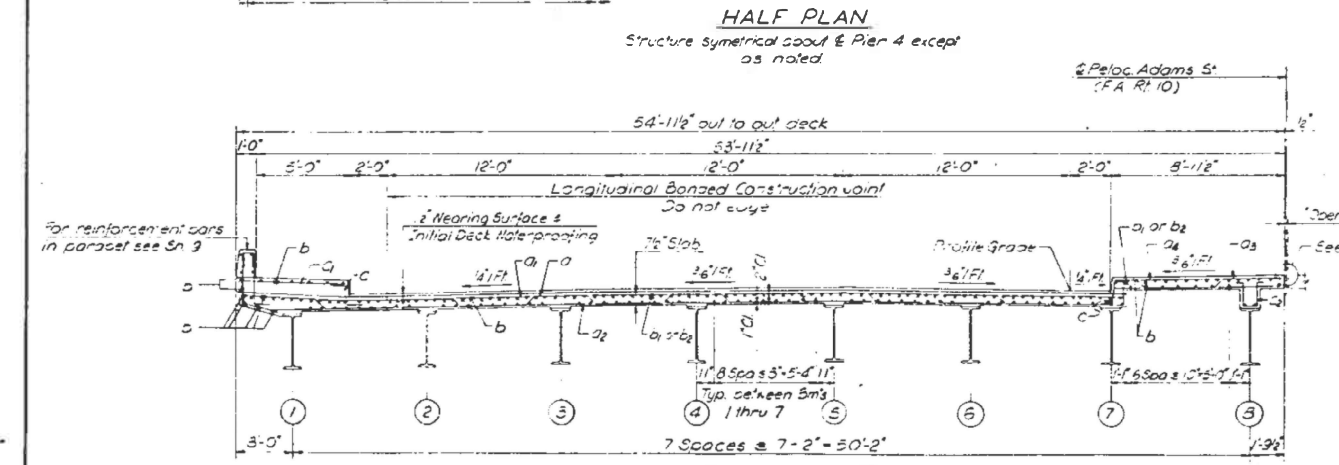
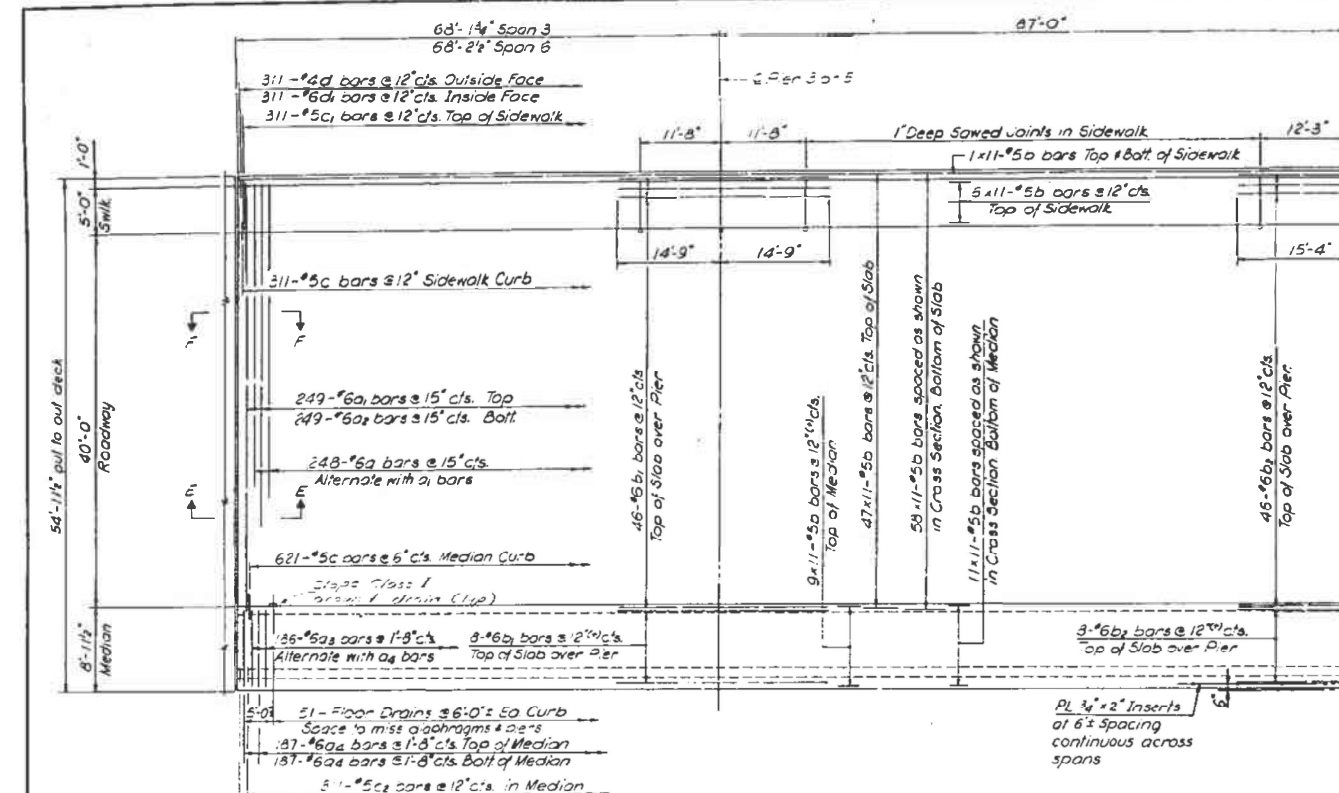
FOR INFORMATION ONLY

USER NAME = hudelsonme	DESIGNED = JRG	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS FOR INFORMATION ONLY	F.A.P. RTE. 317	SECTION (48-B)BDS,BDR	COUNTY PEORIA	TOTAL SHEETS 22	SHEET NO. 19
PLOT SCALE = 100.0000" / in.	DRAWN = ACJ	REVISIONS	SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 68G03		
PLOT DATE = 1/29/2021	CHECKED = JRG/JFS	REVISIONS							





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 1 +74	48-B	PEORIA	35	6
FED. ROAD DIV. NO. 7 ILLINOIS PROJECT				



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	223	#5	49'-4"	
a1	269	#6	46'-2"	
a2	269	#6	45'-2"	
a3	36	#6	8'-10"	
a4	374	#6	8'-6"	
b	1453	#5	29'-5"	
b1	108	#5	29'-6"	
b2	54	#6	30'-8"	
c	222	#5	2'-7"	
c1	311	#5	5'-7"	
c2	311	#5	4'-5"	
d	211	#4	4'-9"	
d1	311	#6	5'-8"	

Reinforcement Bars	Lb	(27,427)
Class X Concrete	Cu Yd	528.3
Bitum. Conc. Surface Course 5/8"	Ton	116
Protective Coat	Sq. Yd	613
Structural Steel	Lb	476,600
Stud Shear Connectors	Each	4,843
Cool Tar Interlayer Protect Coat	Sq. Yd	1,399
Headspace Expansion Joint 4"	Lin. Ft.	56
Headspace Expansion Joint 2"	Lin. Ft.	55

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUPERSTRUCTURE SPANS 3 THRU 6  
WESTBOUND ROADWAY  
RELOCATED ADAMS STREET (FA 10)  
OVER KICKAPOO CREEK  
STA. 187+10.02  
PEORIA COUNTY SECTION 48-B  
CHRISTIAN ROUGE AND ASSOC.  
CHICAGO, ILLINOIS

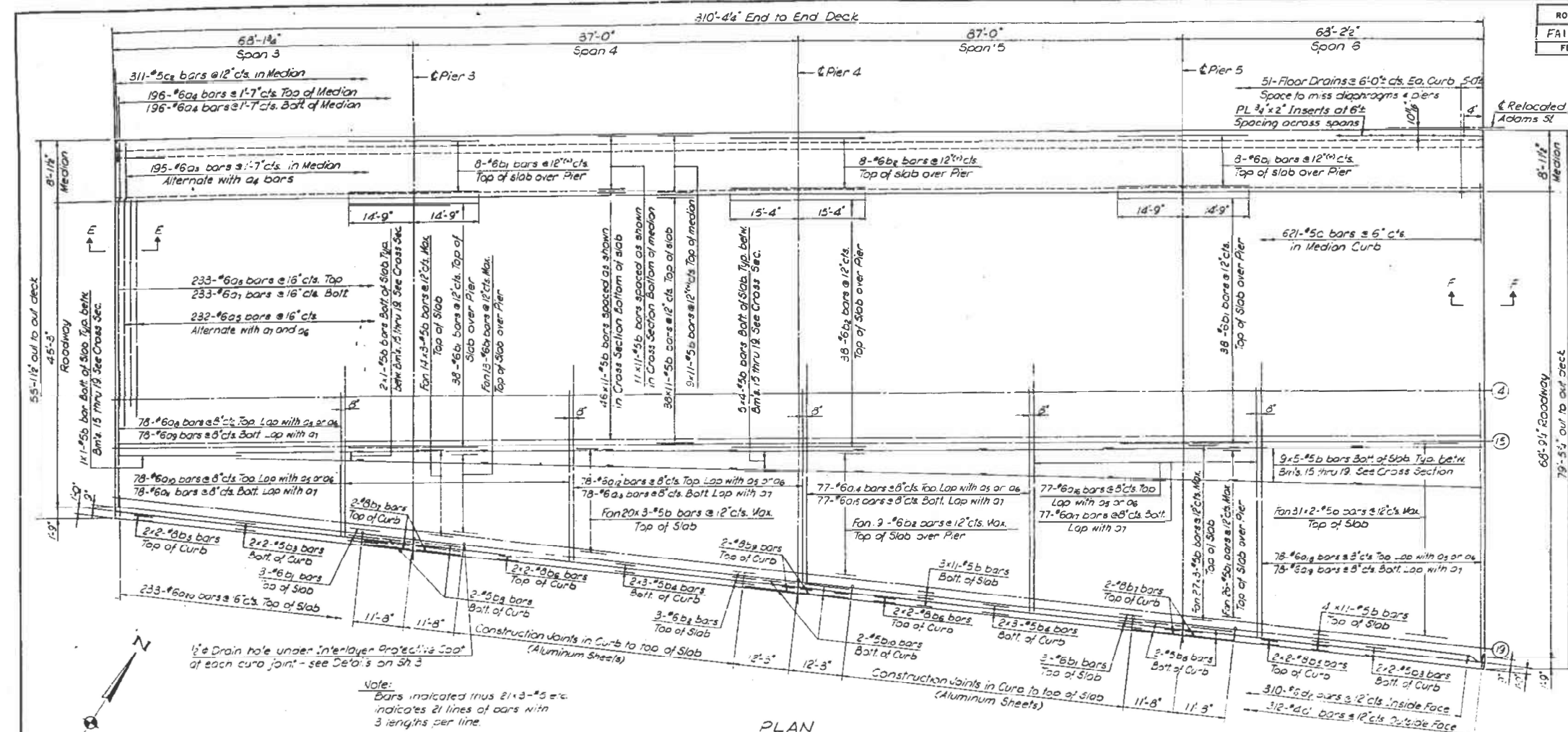
SHEET 3 OF 26

FOR INFORMATION ONLY

USER NAME = hudeisonne	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS FOR INFORMATION ONLY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN BY -	REVISED -	317			(48-B)BDS,BDR	PEORIA	22	21	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 68G03				
PLOT DATE = 1/29/2021	DATE -	REVISED -			ILLINOIS	FED. AID PROJECT			

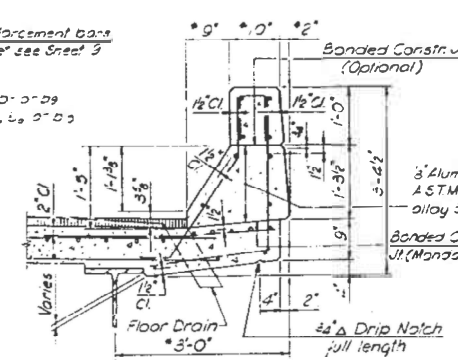
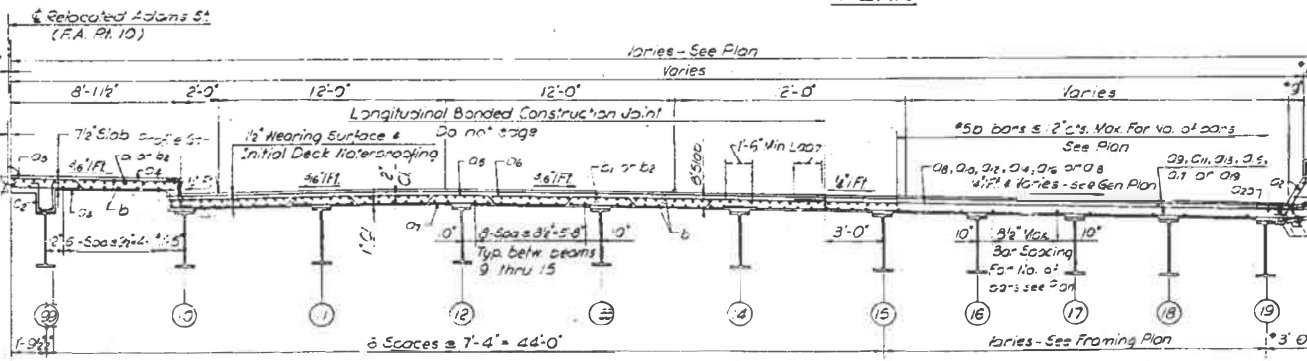


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 474	48-B	PEORIA	35	7
FED. ROAD DIV. NO. 7		ILLINOIS PROJECT		



**BILL OF MATERIAL**

Bar	No	Size	Length	Shape
a1	195	#6	8'-10"	
a2	592	#6	8'-6"	
a3	232	#6	36'-10"	
a4	233	#6	34'-4"	
a5	233	#6	30'-11"	
a6	78	#6	17'-9"	
a7	78	#6	21'-2"	
a8	78	#6	21'-8"	
a9	78	#6	25'-1"	
a10	78	#6	25'-7"	
a11	78	#6	29'-0"	
a12	77	#6	29'-6"	
a13	77	#6	32'-11"	
a14	77	#6	33'-5"	
a15	77	#6	35'-10"	
a16	73	#6	37'-4"	
a17	73	#6	40'-9"	
a18	233	#6	4'-0"	
b	1728	#5	29'-5"	
b1	137	#6	29'-6"	
b2	63	#6	37'-8"	
b3	3	#5	28'-10"	
b4	12	#5	22'-1"	
b5	3	#8	29'-3"	
b6	3	#8	32'-6"	
b7	8	#8	11'-4"	
b8	8	#5	11'-4"	
b9	4	#8	11'-11"	
b10	4	#5	11'-11"	
c	521	#5	2'-7"	
c1	311	#5	4'-4"	
d	312	#4	4'-9"	
d1	310	#6	3'-8"	
Reinforcement Bars	Lb	155,930		
Class X Concrete	Cu Yd	594.7		
Bitum Cons-Substr Course Cl 1	Ton	16.6		
Protective Coat	Sq Yd	451		
Structural Steel	Lb	636,350		
Stud Shear Connectors	Each	6,666		
Coat For Interlayer Protect Coat	Sq Yd	1,971.1		
Neoprene Expansion Jt	Ln Ft	57		
Neoprene Expansion Jt	Ln Ft	51		



DESIGNED BY: A.T.  
 DRAWN BY: E.F.  
 CHECKED BY: T.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SUPERSTRUCTURE SPANS 3 THRU 6  
 EASTBOUND ROADWAY  
 RELOCATED ADAMS STREET (FAI 10)  
 OVER KICKAPOO CREEK  
 STA. 187+10.02  
 PEORIA COUNTY SECTION 48-B  
 CHRISTIAN, ROGE AND ASSOC.  
 ENGINEERS  
 CHICAGO, ILLINOIS  
 SHEET 4 of 26

FOR INFORMATION ONLY

USER NAME = hudelsonme	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		EXISTING PLANS FOR INFORMATION ONLY		F.A.P. RTE. = 317	SECTION = (48-B)BDS,BDR	COUNTY = PEORIA	TOTAL SHEETS = 22	SHEET NO. = 22
PLOT SCALE = 100.0000' / in.	CHECKED =	REVISED =	SCALE:		SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				
PLOT DATE = 1/29/2021	DATE =	REVISED =					CONTRACT NO. 68G03				