

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31*	1
		ILLINOIS	CONTRACT NO. 74D02	

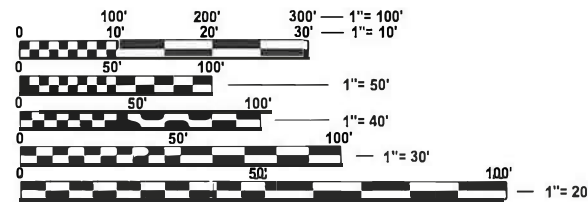
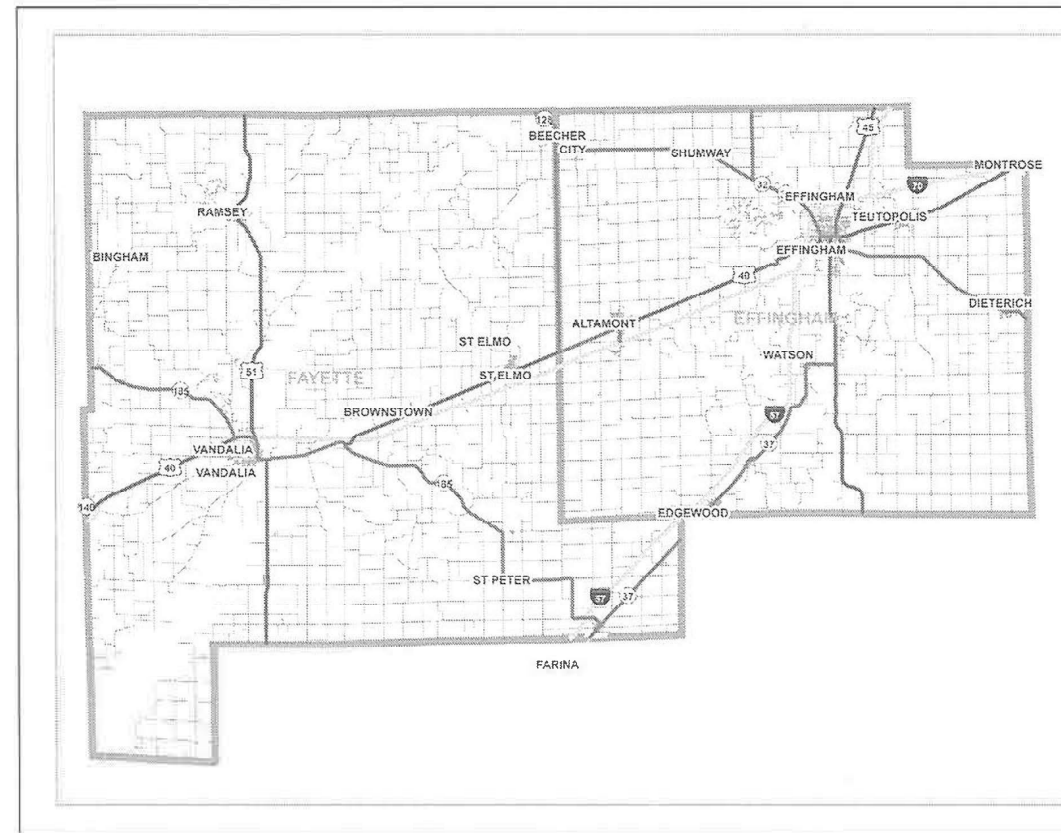
* 31 + 2 = 33 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
FAI 57, FAI 70, FAP 777
(I-70, I-57, IL 185)
SECTION D7 BRIDGE PAINTING 2025-2
VARIOUS COUNTIES
BRIDGE PAINTING

C-97-065-24



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 MATT BOWER
PROJECT MANAGER STACY ANDERSON

CONTRACT NO. 74D02

GROSS LENGTH = NA FT. = NA MILE
NET LENGTH = NA FT. = NA MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 21 2024
Jeffrey P. Myerles
REGIONAL ENGINEER

October 4, 2024
James A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024
James A. Etk
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 9 LOCATIONS: IL 70 AND I-57 IN FAYETTE & EFFINGHAM COUNTY.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING THE BRIDGE AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS.

THE STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS SPECIFIED IN THE PLANS AND THE SPECIAL PROVISIONS.

ALL DECK DRAINS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THEIR OWN EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ONLY STRUCTURAL STEEL IS TO BE PAINTED. ALL OTHER SURFACES WILL BE PROTECTED FROM BEING PAINTED. ALL PAINT AND OVERSPRAY WILL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

THE SSPC QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATION WILL BE REQUIRED FOR THIS PROJECT.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTIONS
3-4	SUMMARY OF QUANTITIES
5-6	LOCATION MAPS
7-31	EXISTING STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER THE LAST NUMBERED SHEET:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULT-ILANE, 15' TO 24' FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, FOR SPEEDS >= 45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

LOCATION #1, #2, & #5-#9

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSELL 5B 7/1.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for 'Cleaning and Painting Existing Steel Structures'. All structural steel, including beams, bearings, and diaphragms, shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. Cleaning and painting of the existing structural steel shall be specified in the special provision for 'Cleaning and Painting Existing Steel Structures'. This structure contains lead paint.

The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

LOCATION #1

BRIDGE #1
ROUTE: FAI 57
MARKED: IL 57
STATION: 50+08.22
STRUCTURE NUMBER: 025-0042, FAS 2701 over FAI-57
EFFINGHAM COUNTY

NO air monitors will be required at this location.

LOCATION #2

BRIDGE #2
ROUTE: FAI 57
MARKED: IL 57
STATION: 4726+61.05
STRUCTURE NUMBER: 025-0061, TR-215 over FAI-57
EFFINGHAM COUNTY

Two air monitors will be required at this location.

LOCATION #5

BRIDGE #5
ROUTE: FAI 70
MARKED: IL 70
STATION: 457+00
STRUCTURE NUMBER: 026-0013, FAI-70 EB over ILL-185
FAYETTE COUNTY

Four air monitors will be required at this location.

LOCATION #6

BRIDGE #6
ROUTE: FAI 70
MARKED: IL 70
STATION: 457+00
STRUCTURE NUMBER: 026-0014, FAI-70 WB over ILL-185
FAYETTE COUNTY

Four air monitors will be required at this location.

LOCATION #7

BRIDGE #7
ROUTE: FAI 777
MARKED: IL 185
STATION: 911+60
STRUCTURE NUMBER: 026-0051, FAP-777 (ILL-185) over HURRICANE CR BRANCH FAYETTE COUNTY

One air monitors will be required at this location.

LOCATION #8

BRIDGE #8
ROUTE: FAI 70
MARKED: IL 70
STATION: 1242+70.25
STRUCTURE NUMBER: 026-0080, TR-516 over FAI-70
FAYETTE COUNTY

One air monitors will be required at this location.

LOCATION #9

BRIDGE #9
ROUTE: FAI 70
MARKED: IL 70
STATION: 396+30
STRUCTURE NUMBER: 026-0087, FAU-8413 (US-40) over FAI-70 FAYETTE COUNTY

Four air monitors will be required at this location.

LOCATION #3 & #4

COLOR OF THE FINISH COAT SHALL BE GRAY, MUNSELL 5B 7/1.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for 'Cleaning and Painting Existing Steel Structures'. All structural steel, on all beams, bearings, and diaphragms, within 5' (measured along the beam) of the abutments and any expansion joints shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. The outside and bottoms of both fascia beams, for the entire length of the beams, shall be cleaned in their entirety by SSPC-SP10- Near White Metal Blast Cleaning.

The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

LOCATION #3

BRIDGE #3
ROUTE: FAI 57
MARKED: IL 57
STATION: 4627+37.83
STRUCTURE NUMBER: 025-0071, FAI-57 NB over LITTLE WABASH RIVER EFFINGHAM COUNTY

One air monitors will be required at this location.

LOCATION #4

BRIDGE #4
ROUTE: FAI 57
MARKED: IL 57
STATION: 4627+37.16
STRUCTURE NUMBER: 025-0072, FAI-57 SB over LITTLE WABASH RIVER EFFINGHAM COUNTY

One air monitors will be required at this location.

MODEL: GEN NOTES (Sheet)
FILE NAME: c:\pw\work\wcd\hills\illinois\0992980774D02-shr-gennotes.dgn

REV - MS

USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		INDEX OF SHEETS, GENERAL NOTES SHEETS		FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
jessica.h lle	-	-					VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	2
	DR AWN	REVISED					CONTRACT NO. 74D02				
	CHECKED	REVISED					ILLINOIS FED. AD. PROJECT				
PLOT DATE = 8/21/2024	DATE	REVISED			SCALE:	SHEET	OF 1	SHEETS	STA.	TO STA.	

100% STATE

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	10	10		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3	3		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2700	2700		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	100	100		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	5100	5100		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	9	9		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	17	17		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1		
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1	1		
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1	1		
Z0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1	1		
Z0007106	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1	1		
Z0007107	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 7	L SUM	1	1		
Z0007108	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 8	L SUM	1	1		
Z0007109	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 9	L SUM	1	1		

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REV - MS

100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1		
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1		
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1		
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1	1		
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1	1		
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1	1		
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1	1		
Z0010508	CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1	1		
Z0010509	CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
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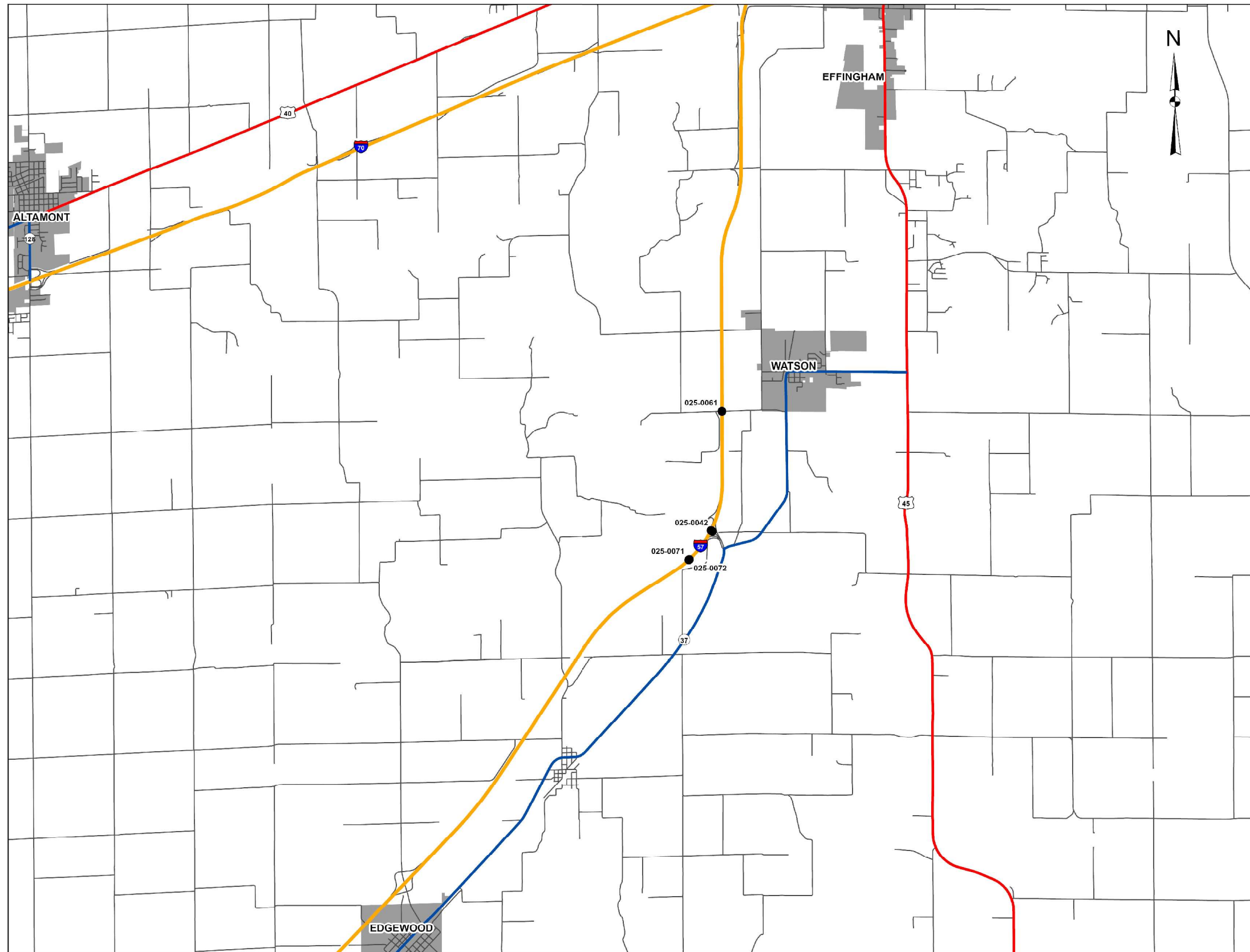
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES		
SCALE:	SHEET OF 2 SHEETS	STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	4
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				



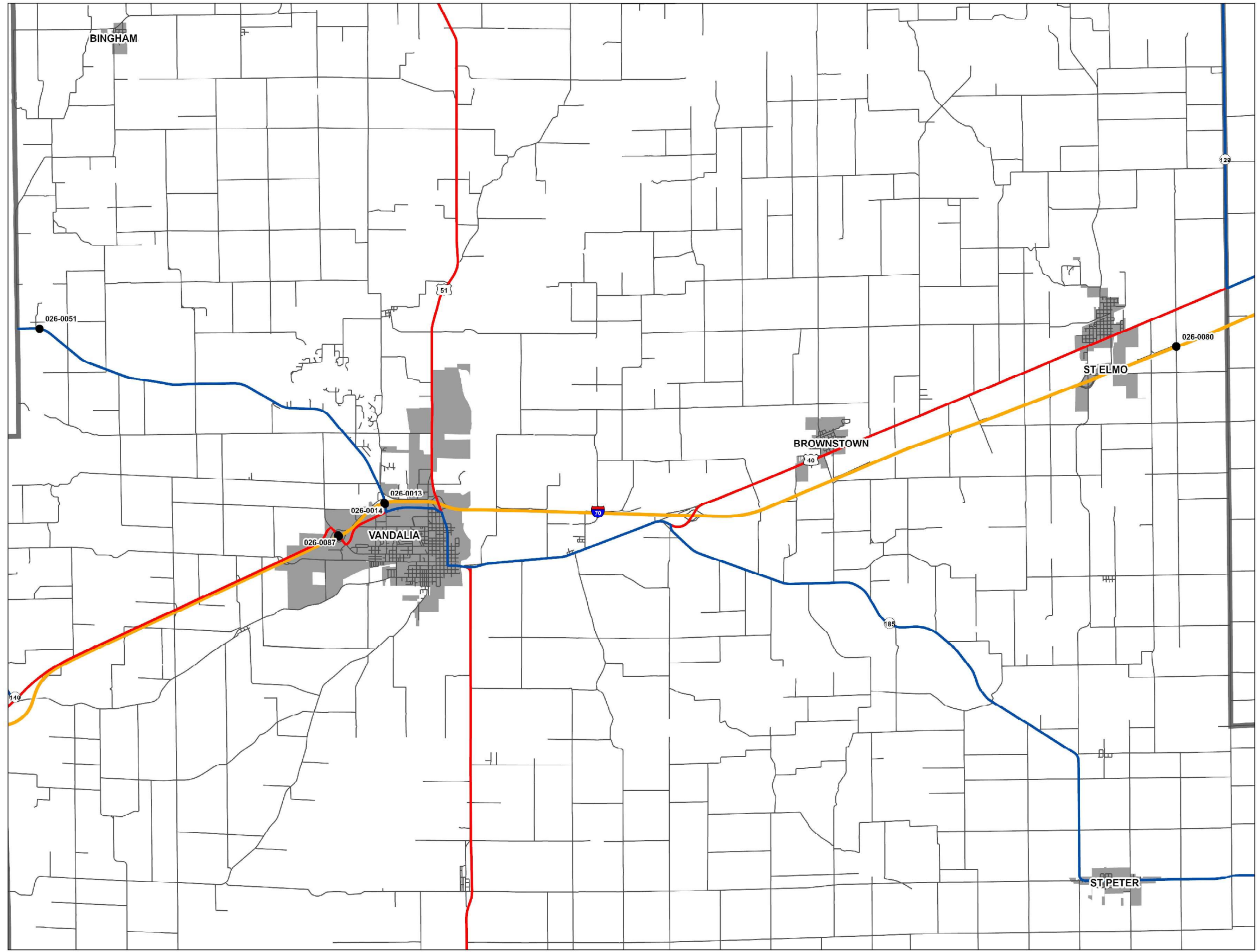
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USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1			
025-0042, 025-0061, 025-0071 & 025-0072			
SCALE:	SHEET	OF 27 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	5
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				



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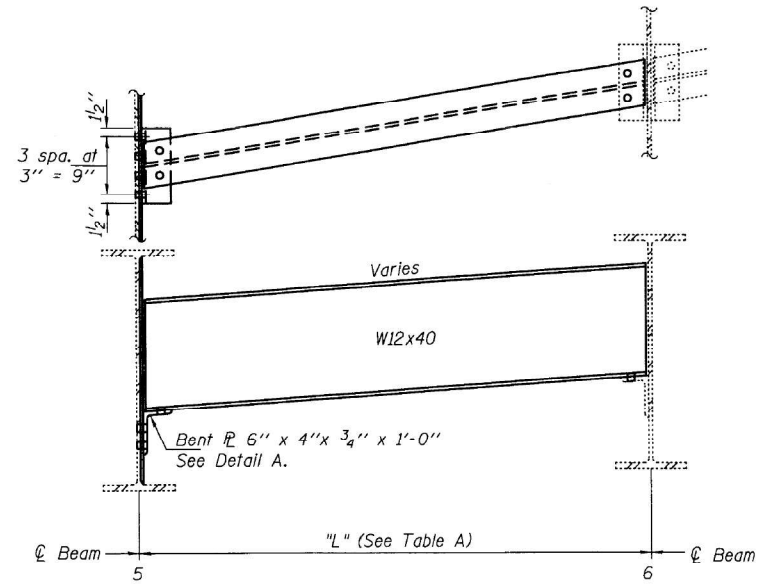
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2
026-0013, 026-0014, 026-0051, 026-0080 & 026-0087

SCALE: SHEET OF 27 SHEETS STA. TO STA.

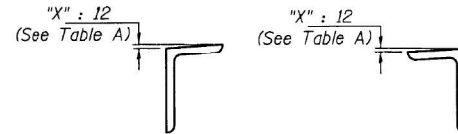
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	6
CONTRACT NO. 74D02			ILLINOIS FED. AID PROJECT	



DIAPHRAGM REPLACEMENT DETAIL
West abutment (D2) & Pier 1, Span 1 (D3)

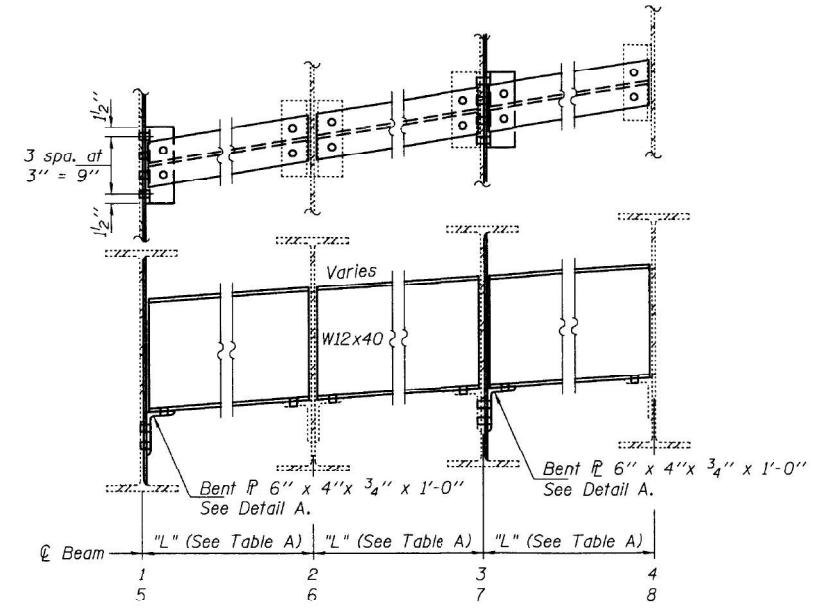
TABLE A

Diaphragm	L	X
D2	6'-6 ⁵ / ₁₆ "	1"
D3	6'-6 ⁵ / ₁₆ "	1"
D4	6'-2 ³ / ₈ "	1"
D5	6'-1 ³ / ₁₆ "	1"
D6	6'-5 ⁹ / ₁₆ "	1"
D8	6'-5 ⁹ / ₁₆ "	0
D9	6'-6"	0
D11	6'-1 ³ / ₄ "	1/2"
D12	6'-6"	9/16"
D13	6'-7 ¹ / ₈ "	1 ³ / ₈ "
D15	6'-7 ¹ / ₈ "	1 ³ / ₈ "
D16	6'-3 ¹ / ₈ "	1 ³ / ₈ "

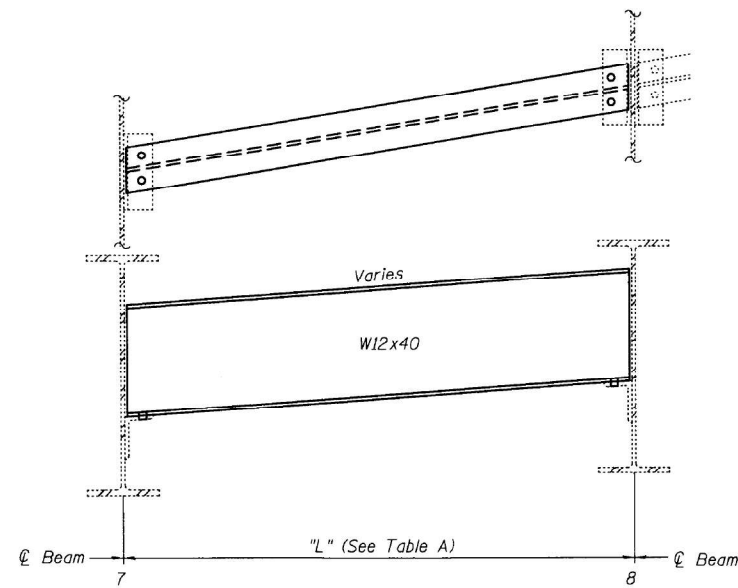


DETAIL A

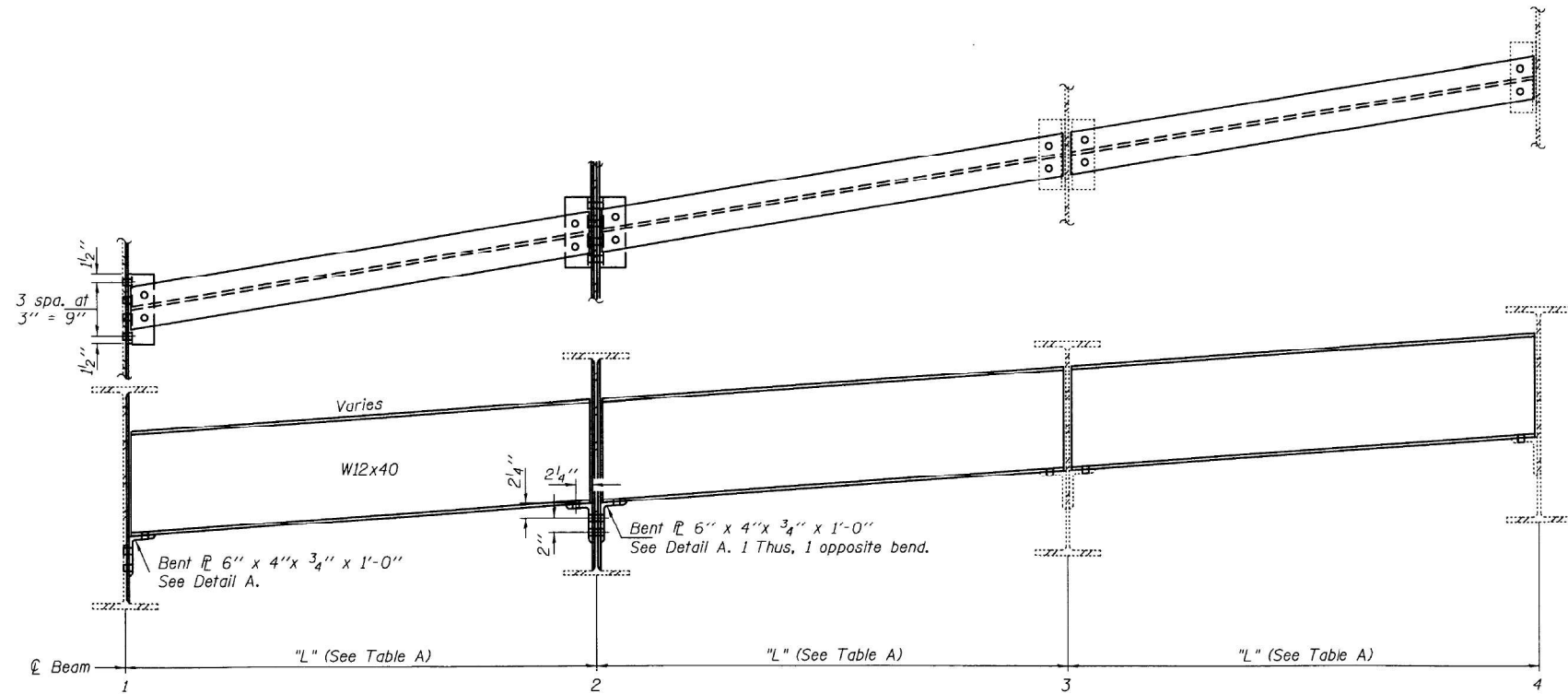
Notes:
All views are looking East.
All dimensions are typical except as noted.
Some beam end repairs not shown for clarity.
For beam end repairs, see sheets 8 & 9 of 20.
Field drill all holes for diaphragm locations to match existing.



DIAPHRAGM REPLACEMENT DETAIL
Pier 1, Span 2 (D5 Beams 1 thru 4) (D6 Beams 5 thru 8)



DIAPHRAGM REPLACEMENT DETAIL
West abutment (D2)



DIAPHRAGM REPLACEMENT DETAIL
Pier 1, Span 1 (D4)

DESIGNED <i>TLC</i>	EXAMINED <i>Timothy A. Anzani</i>	DATE <i>OCTOBER 16, 2014</i>
CHECKED <i>ATH</i>	PASSED <i>ACTING ENGINEER OF STRUCTURAL SERVICES</i>	REVISED
DRAWN <i>Steffen/baliva</i>	PASSED <i>ACTING ENGINEER OF BRIDGES AND STRUCTURES</i>	REVISED
CHECKED <i>TLC ATH</i>		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM REPLACEMENT DETAILS
SN 025-0042

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(25-6,7)RS-2	EFFINGHAM	63	58A
CONTRACT NO. 74638				

SHEET NO. 10 OF 20 SHEETS

ILLINOIS FED. AID PROJECT

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USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

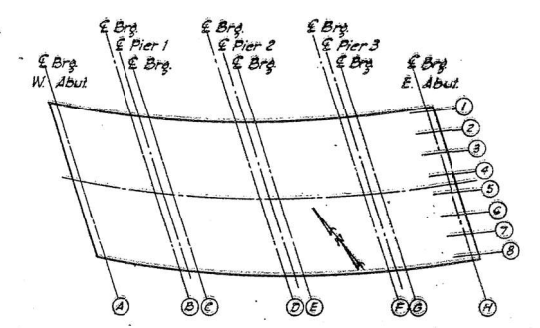
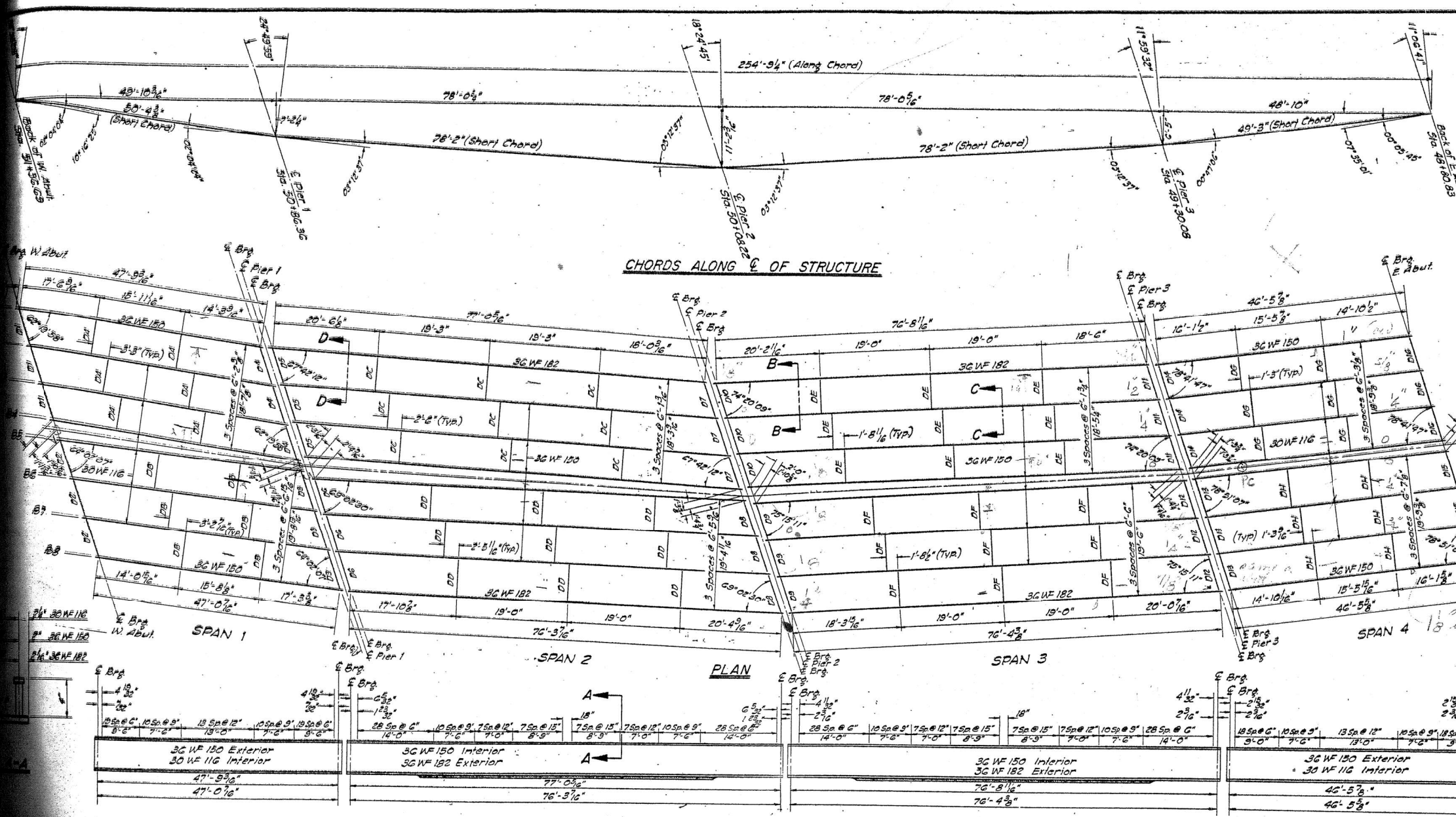
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
025-0042

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	7
CONTRACT NO. 74D02				

ILLINOIS FED. AID PROJECT

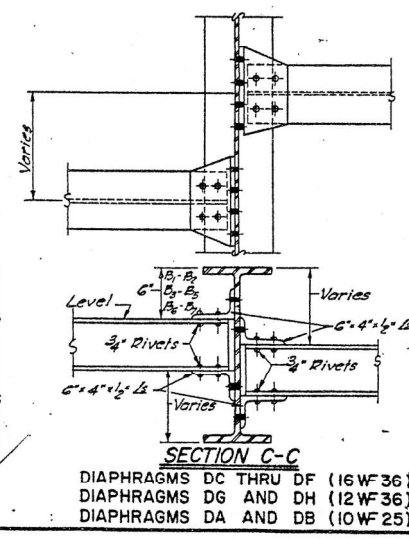
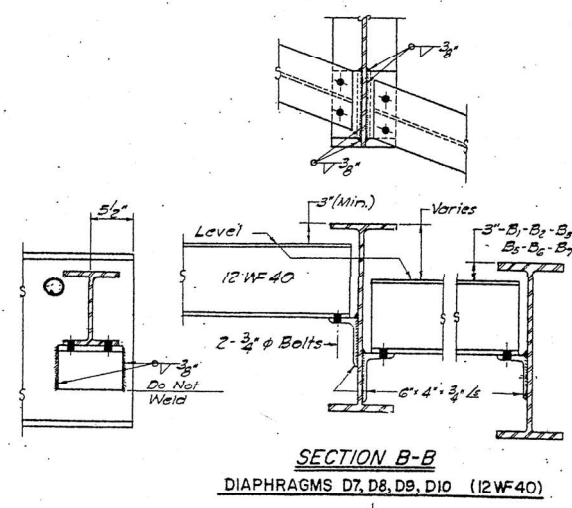
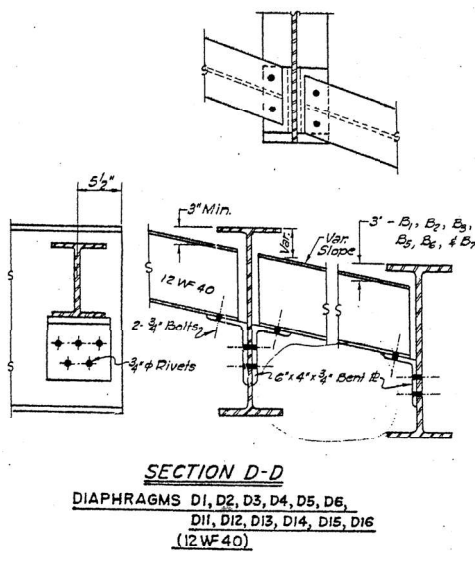
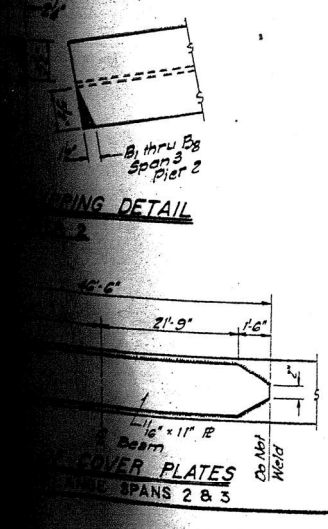


ORIENTATION SKETCH

TABLE OF ELEVATIONS
TOP OF WF

BEAM	ELEVATION	BEAM	ELEVATION	BEAM	ELEVATION
A	519.38	A	522.89	A	522.41
B	519.86	B	521.49	B	522.81
C	519.87	C	521.41	C	523.85
D	520.69	D	522.02	D	523.09
E	520.71	E	522.00	E	523.11
F	521.50	F	522.36	F	523.05
G	521.52	G	522.38	G	523.06
H	521.87	H	522.46	H	523.93
A	519.92	A	521.29	A	522.97
B	520.40	B	521.67	B	523.38
C	520.38	C	521.77	C	523.39
D	521.14	D	522.20	D	523.52
E	521.15	E	522.25	E	523.52
F	521.79	F	522.48	F	523.34
G	521.81	G	522.49	G	523.34
H	522.07	H	522.54	H	523.11
A	520.46	A	521.85		
B	520.95	B	522.24		
C	520.89	C	522.31		
D	521.59	D	522.65		
E	521.58	E	522.68		
F	522.08	F	522.77		
G	522.10	G	522.78		
H	522.27	H	522.74		

NOTE:
Weight of welded studs included in Quantity of Structural Steel, Sheet 9 of 11
Estimated Weight = 1732 lbs.



FRAMING PLAN

ROCHESTER AND GOODELL
ENGINEERS INCORPORATED
BOX 371 SALEM, ILLINOIS PH. 350

BRIDGE OVER FAI ROUTE 57 CARRYING RAMP AB

STATION 4646 +79.77
FAI ROUTE 57
SECTION 25-0042-6, 6WF-6
EFFINGHAM COUNTY, ILLINOIS

DESIGNED - E. PYLE
DRAWN - R. HEAVENER
CHECKED - H. ROFFMANN
APPROVED - E. MOLDOVAN

SCALE NONE
DATE 9-22-90

MODEL: Default
FILE NAME: c:\pwwork\wv\illinois.gov\stacy.anderson@illinois.gov\d0989298D774D02-shr-p-bn.dgn

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

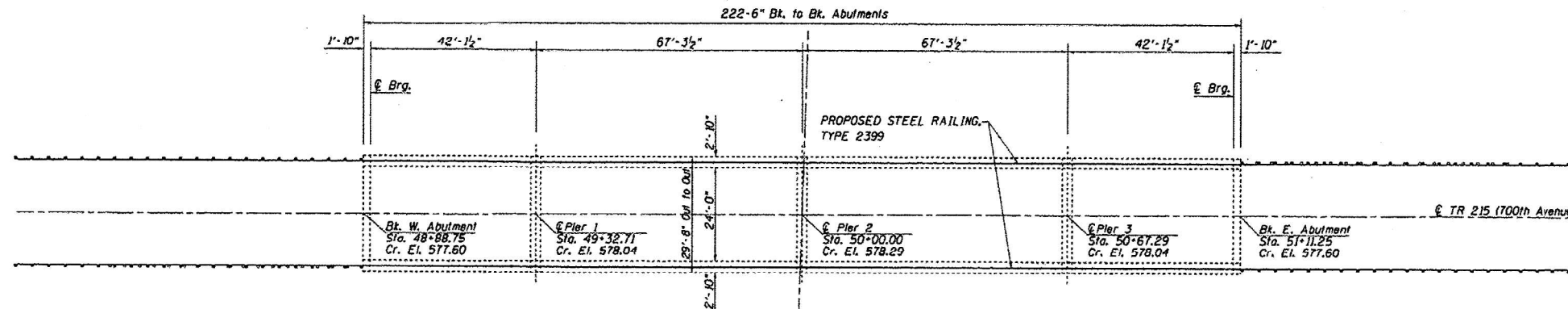
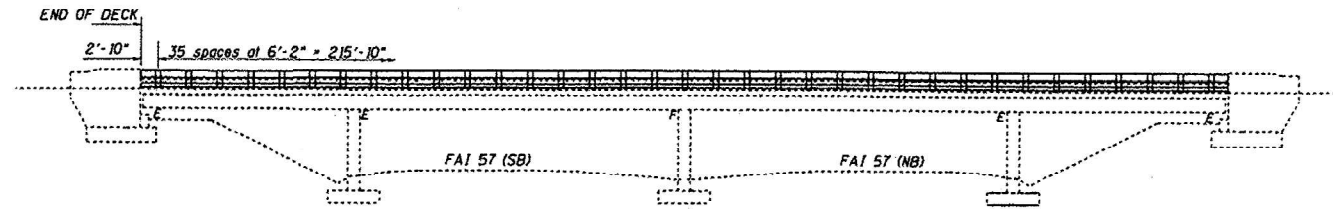
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
025-0042

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D7 BRIDGE PAINTING 2025-2	VARIOUS	ILLINOIS	31	7A
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

The existing four span continuous steel multi-beam structure was constructed in 1962 as TR-215 section 25-7HB at Sta. 4726+61.05. SN 025-0061 carries TR-215 (100th Avenue). The proposed project consists of Steel Railing, Type 2399.



DESIGN STRESSES
 $f_c = 1400$ p.s.i. Super & Sub
 $f_c = 75$ p.s.i. Footings
 $f_s = 20,000$ p.s.i. Reinf.
 $f_s = 18,000$ p.s.i. Struct.
 $n = 10$



David Carl Puzey 10/20/14
 Expires 11/30/14

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	442

FILE NAME =	USER NAME = staffenok	DESIGNED - MAD	REVISED -
4630-shs-details.dgn	4630-shs-details.dgn	DRAWN -	REVISED -
PLOT SCALE = 100.0000 1/16" = 1"	CHECKED - VHV	REVISED -	REVISED -
PLOT DATE = 9/8/2014	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 SN 025-0061

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(25-6, TRS-2)	EFFINGHAM	63	442
			CONTRACT NO. 74638	
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

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USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

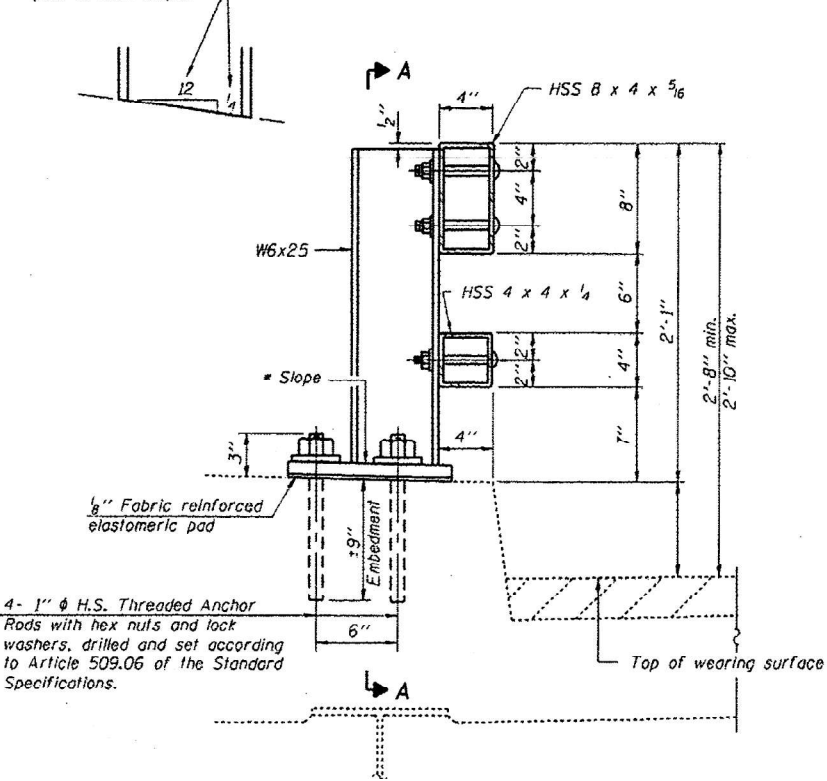
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 025-0061

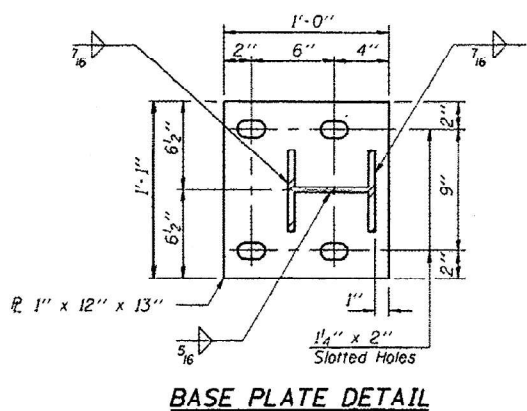
SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	8
			CONTRACT NO. 74D02	
ILLINOIS FED. AID PROJECT				

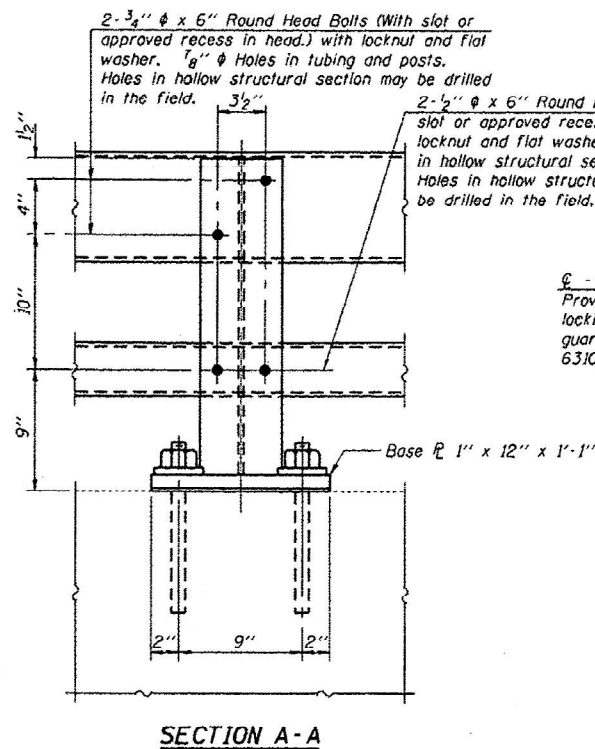
* Cut bottom end of post to curb slope.



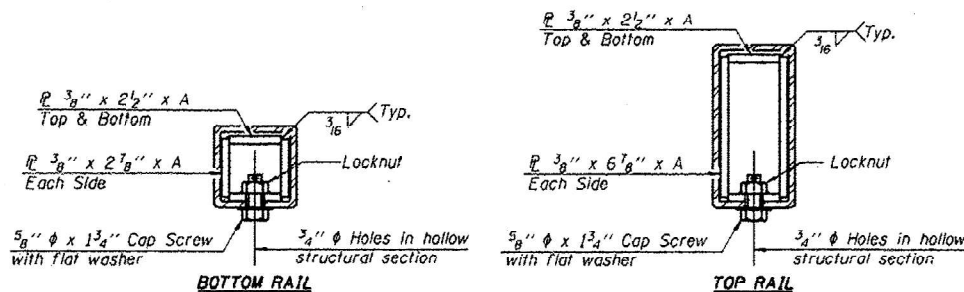
SECTION AT RAIL POST



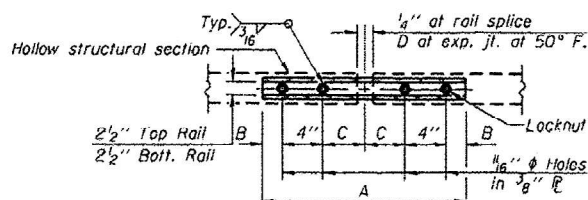
BASE PLATE DETAIL



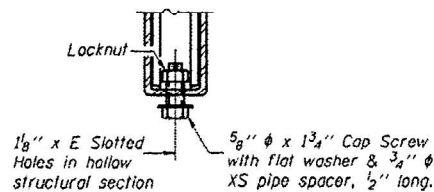
SECTION A-A



SECTIONS AT RAIL SPLICE

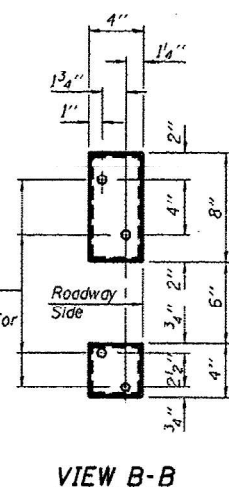


PLAN-BOTT. SPLICE TYPICAL

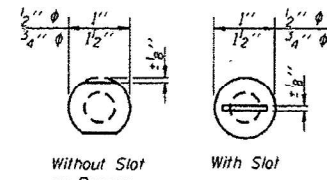


RAIL SPLICE CONNECTION AT EXPANSION JT.

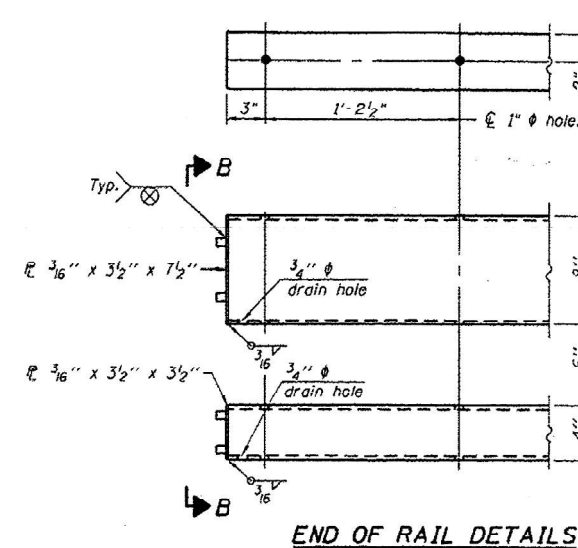
6-5/8" reduced base welded studs. Provide 4-5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



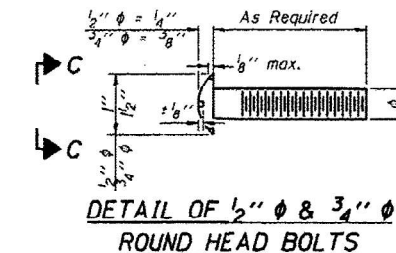
VIEW B-B



VIEW C-C



END OF RAIL DETAILS



DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 1/2"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/2"	1'-8"	2"	4"	—

T = Total movement of expansion joint as shown on the design plans.

BILL OF MATERIAL

Structure	Item	Unit	Quantity
SN 025-0061	Steel Railing, Type 2399	Foot	442

R-31 7-1-10 (6'-3" Maximum Post Spacing)

FILE NAME	USER NAME	DESIGNED	REVISED
c:\pwwork\stacyanderson\illinois\p01\09892998\0774002-shr-ran.dgn	stacyanderson	-	-
	4638-pnt-detailed.dgn	DRAWN	REVISED
	PLOT SCALE = 1/8" = 1'-0"	CHECKED	REVISED
	PLOT DATE = 7/6/2014	DATE	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
 STRUCTURE NO. 025-0061

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(25-6,7)RS-2	EFFINGHAM	63	47

CONTRACT NO. 74638

MODEL: Plans - 9 (Sheet)
 FILE NAME: c:\pwwork\stacyanderson\illinois\p01\09892998\0774002-shr-ran.dgn

USER NAME	DESIGNED	REVISED
stacyanderson	-	-
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

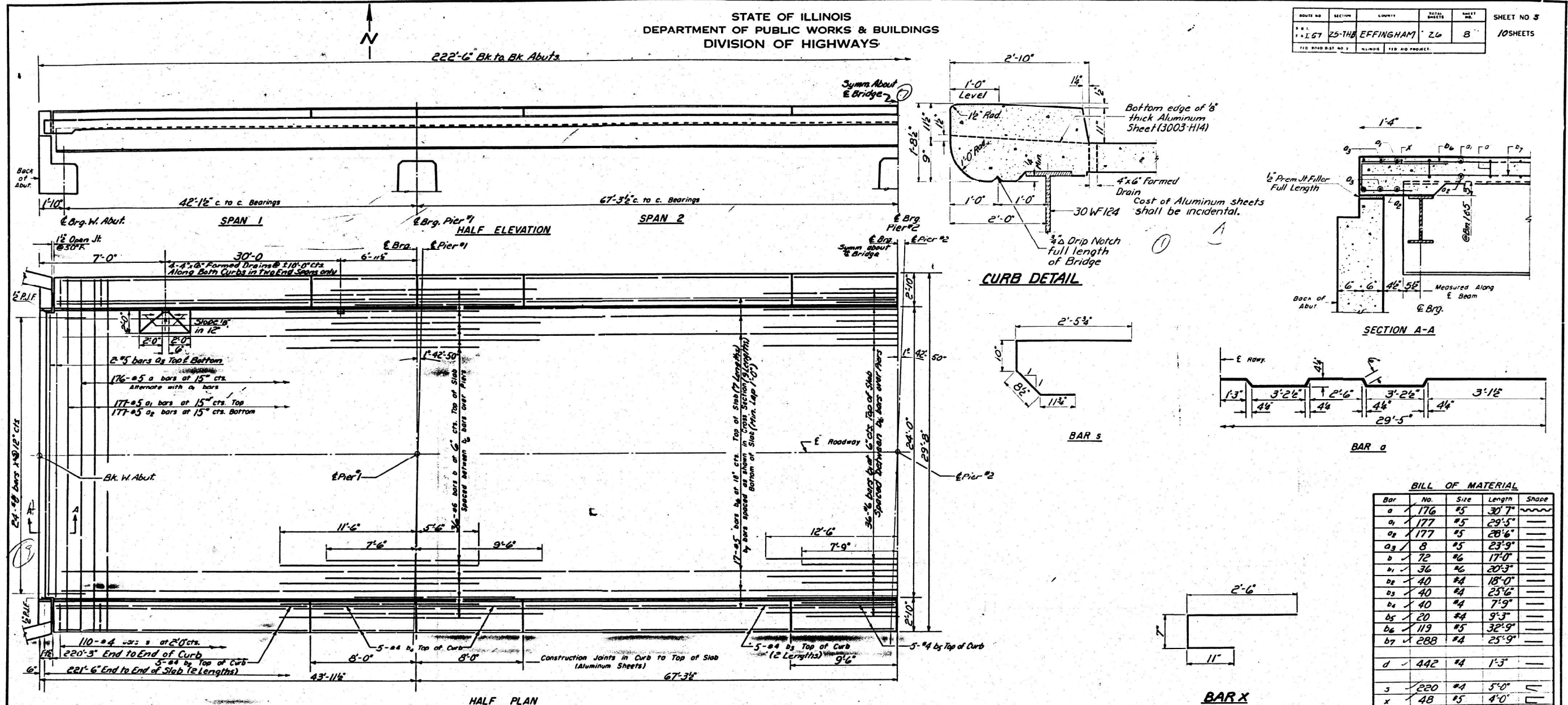
EXISTING STRUCTURE PLANS
 025-0061

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	9

CONTRACT NO. 74D02

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-157	25-TH	EFFINGHAM	26	8
SHEET NO. 3 OF 10 SHEETS				



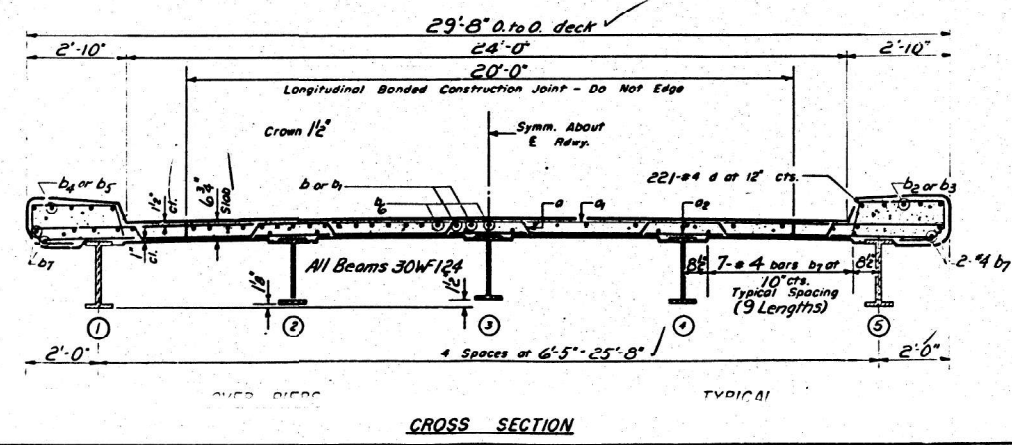
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	176	#5	30' 7"	~
a ₁	177	#5	29' 5"	~
a ₂	177	#5	28' 6"	~
b	8	#5	23' 9"	~
b ₁	72	#6	17' 0"	~
b ₂	36	#6	20' 3"	~
b ₃	40	#4	18' 0"	~
b ₄	40	#4	25' 6"	~
b ₅	40	#4	7' 9"	~
b ₆	20	#4	9' 3"	~
b ₇	119	#5	32' 9"	~
b ₈	288	#4	25' 9"	~
d	442	#4	1' 3"	~
s	220	#4	5' 0"	~
x	48	#5	4' 0"	~
Class X Concrete		Cu. Yds.	185.0	
Reinforcement Bars		Lbs.	31,272	
Structural Steel		Lbs.	166,320	
Name Plates		Each	2	

* Weight of Bolsters, Rockers, Bearing Plates, Lead Plates and Anchor Bolts included as Structural Steel. Est. Wt. 6430 lbs.

METHOD OF DETERMINING FILLET HEIGHT "4"
 After all Structural Steel has been erected elevations of the top flanges of the beams shall be taken at intervals shown on sheet "4". These elevations subtracted from the elevation top of slab, corrected for D.L. Deflections minus floor thickness equals the fillet heights above top of beam

DESIGNED *W. H. King*
 CHECKED *W. H. King*
 DRAWN *W. A. Sausman*
 EXAMINED *H. E. Baumann*
 PASSED *E. H. Harts*
 APPROVED *R. K. Mitchell*
 AUG 25 1960



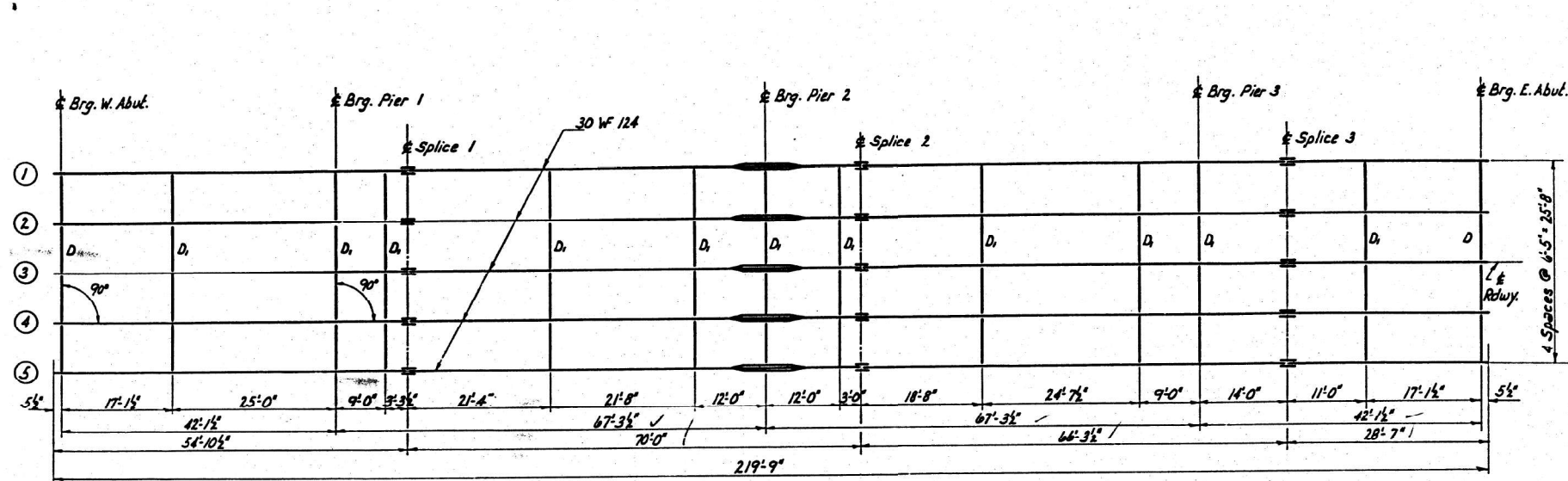
SUPERSTRUCTURE
 F.A.I. RT. 57 SEC. 25-TH
 EFFINGHAM COUNTY
 STA. 4726+61.05

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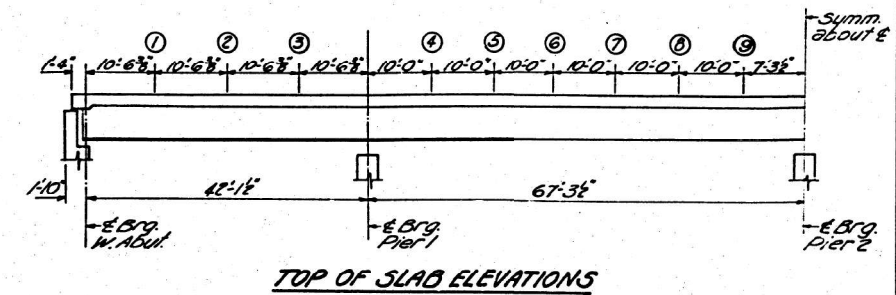
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DESIGNED -	DRAWN -	REVISED -			VAR	D7 BRIDGE PAINTING 2025-2	EFFINGHAM	31	11
CHECKED -	CHECKED -	REVISED -			CONTRACT NO. 74D02				
DRAWN -	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1.57	25-7HB	EFFINGHAM	26	9
SHEET NO. 4 10 SHEETS				

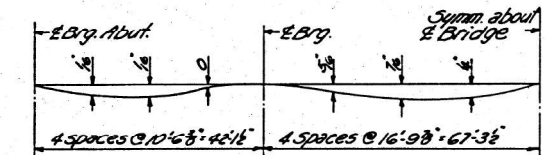


STEEL FRAMING PLAN



TOP OF SLAB ELEVATIONS

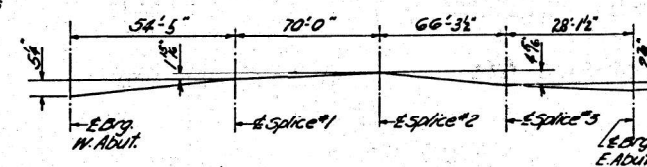
Point	End of Slab	E. Brg. Abut.	1	2	3	E. Brg. Pier 1	4	5	6	7	8	9	E. Brg. Pier 2
Edge of curb	577.454	577.501	577.623	577.732	577.829	577.914	577.984	578.042	578.089	578.125	578.149	578.163	578.160
2' E. 4	577.578	577.595	577.717	577.826	577.923	578.008	578.078	578.136	578.183	578.219	578.263	578.257	578.260
3	577.608	577.626	577.748	577.857	577.954	578.039	578.109	578.167	578.214	578.250	578.274	578.288	578.291



DEAD LOAD DEFLECTION DIAGRAM

ELEVATION TOP OF BEAMS
(For Fabrication Only)

Beam No.	Span	1	2	3	4	5	6	7	8	9
1/1 #5	576.94	577.28	577.38	577.51	577.54	577.26	577.18	576.94		
2/2 #4	577.03	577.37	577.47	577.60	577.63	577.35	577.27	577.03		
3	577.06	577.40	577.50	577.63	577.66	577.38	577.30	577.06		



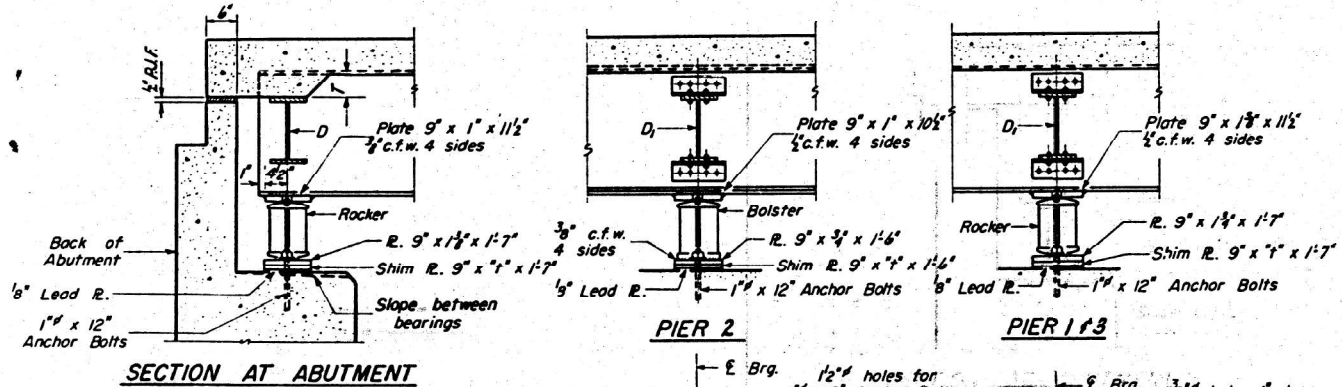
FABRICATION DIAGRAM
(All Beams)

TABLE OF T & T DIMENSIONS

Beam No.	1	2	3	4	5
T	3'	4 1/2'	4 1/2'	4 1/2'	3'
t	6'	7 1/2'	7 1/2'	7 1/2'	6'

TABLE OF 'L' DIMENSIONS

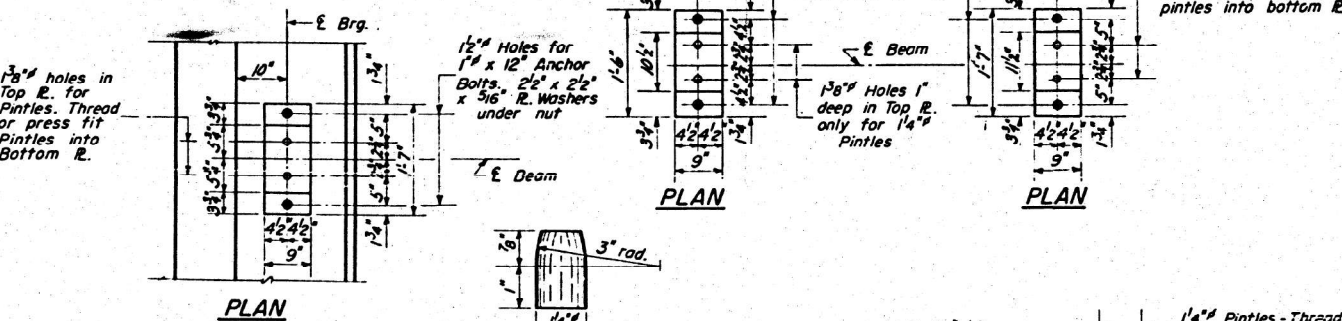
Beam No.	1	2	3	4	5
l	0	0	1/2'	0	0



SECTION AT ABUTMENT

PIER 2

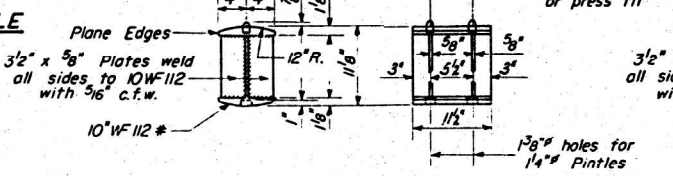
PIER 1 & 3



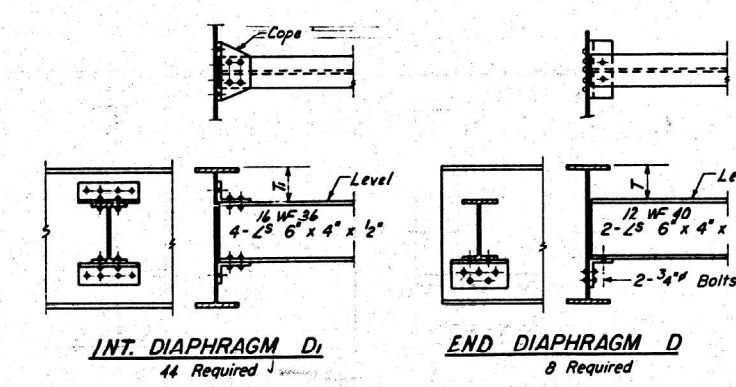
PLAN

PLAN

DETAIL OF PINTLE

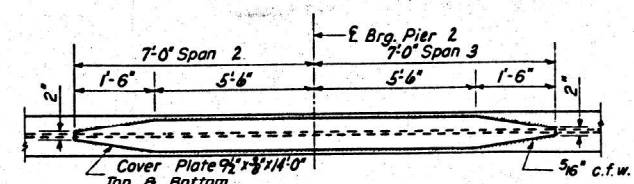


DETAIL OF BEARING AT PIER 1, 3 FABRICATED

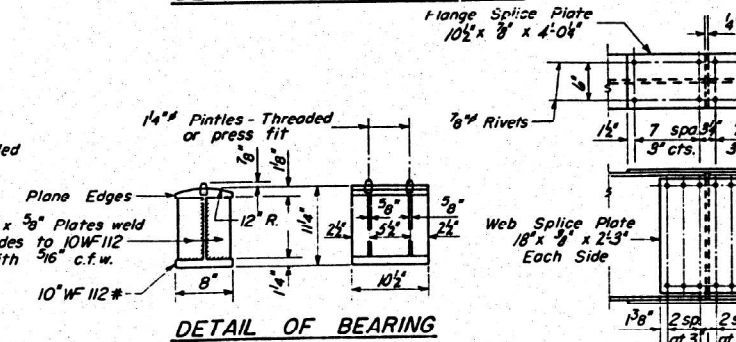


INT. DIAPHRAGM D1
44 Required

END DIAPHRAGM D
8 Required



DETAIL OF COVER PLATES



DETAIL OF BEARING AT PIER 2

DETAIL OF SPLICE

DESIGNED *W. A. Sausman*
CHECKED *W. A. Sausman*
DRAWN *W. A. Sausman*
EXAMINED *H. B. Bensman*
PASSED *E. E. Eberhart*
APPROVED *R. B. B. B.*

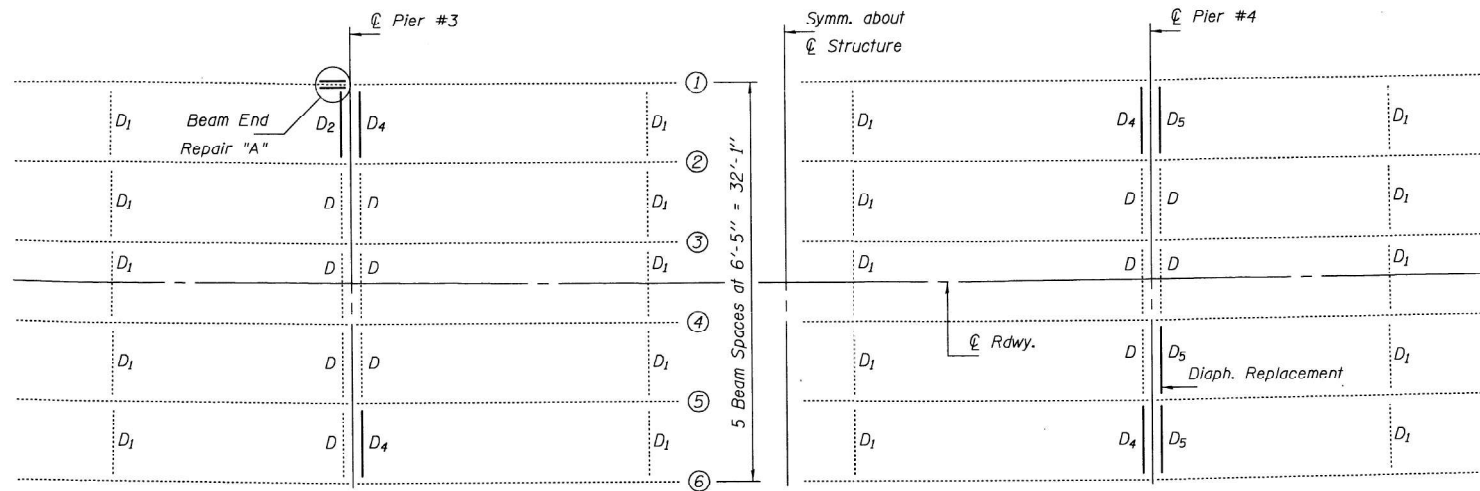
AUG 25 1960

I-2 Re-drawn 8-18-59

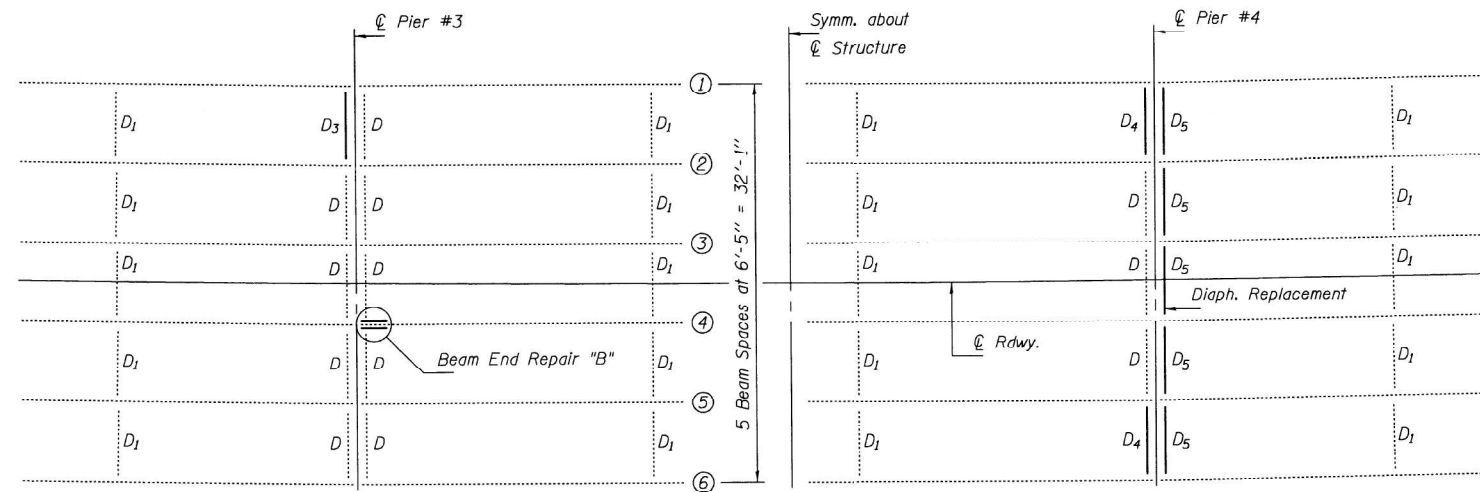
STRUCTURAL STEEL
F.A.I. RT. 57 SEC. 25-7HB
EFFINGHAM COUNTY

MODEL: Plans - 12 (Sheet)
FILE NAME: c:\pwworking\illinois.gov\stacy.anderson\illinois\pwworking\74D02-shr-dan.dwg

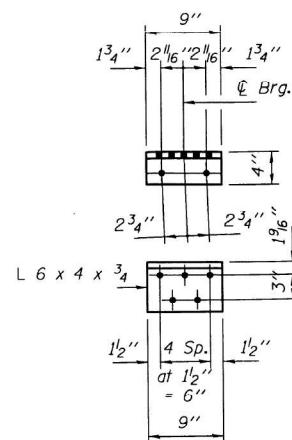
USER NAME = stacy.anderson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS 025-0061	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 8/21/2024	DRAWN -	REVISED -			VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	12
	CHECKED -	REVISED -							CONTRACT NO. 74D02
	DATE -	REVISED -			SCALE:	SHEET OF 27 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT



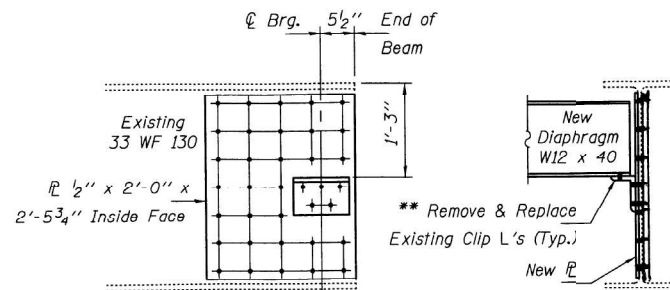
**PLAN STRUCTURAL STEEL REPAIR
SOUTH BOUND LANES SN 025-0072**



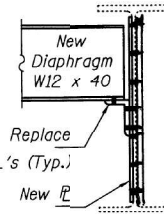
**PLAN STRUCTURAL STEEL REPAIR
NORTH BOUND LANES SN 025-0071**



CLIP ANGLE "A"
(No. Req'd. = 1)

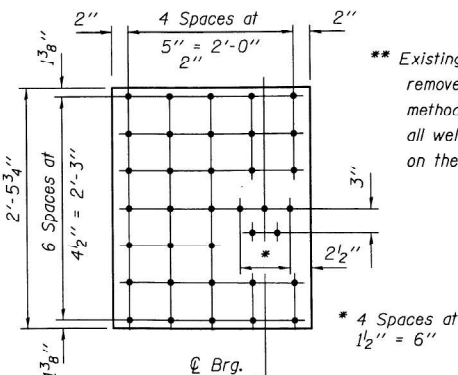


BEAM END REPAIR "A"
Cost included with Structural Steel Repair.



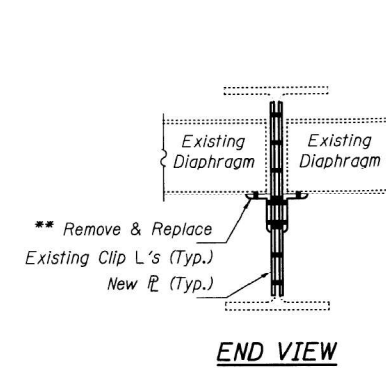
END VIEW

Rev. VHW
02/18/2015

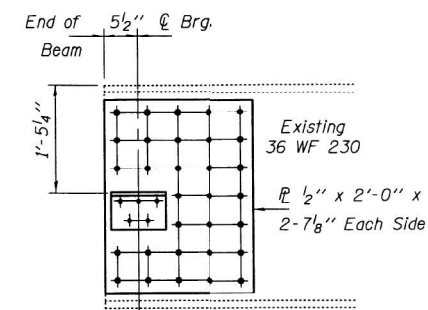


REPAIR PLATE "A"
(No. Req'd. = 2)

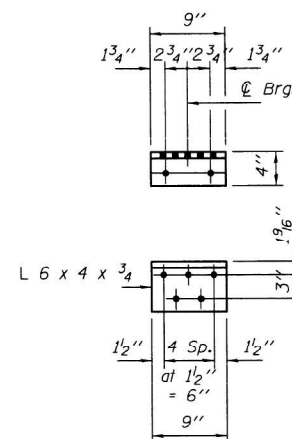
** Existing Clip Angles to be removed using the air-arc method and grind smooth all weld material remaining on the web.



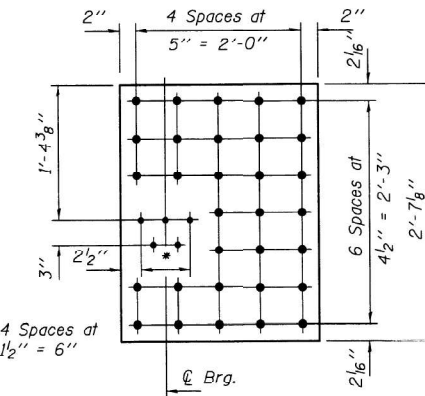
END VIEW



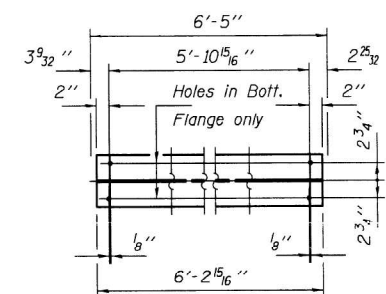
BEAM END REPAIR "B"
Cost included with Structural Steel Repair.



CLIP ANGLE "B"
(No. Req'd. = 2)



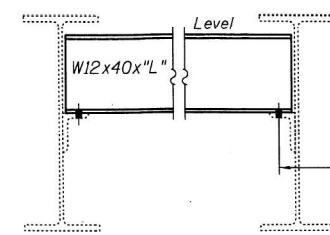
REPAIR PLATE "B"
(No. Req'd. = 2)



DIAPHRAGM D₂
(No. Req'd. = 1)

DIMENSION "L"

Diaph.	"L"	No. Req'd.
D ₃	6'-3 7/16"	1
D ₄	6'-3 7/16"	6
D ₅	6'-3 7/16"	8



DIAPHRAGM REPLACEMENT DETAIL

Using existing holes in existing clip angles as template, field drill holes in New Diaphragms at locations where strengthening L's are not used.

DESIGNED SMR	EXAMINED <i>Timothy A. Anderson</i>	DATE October 15, 2014
CHECKED CCC	PASSED <i>ACTING ENGINEER OF STRUCTURAL SERVICES</i>	REVISED
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED SMR CCC		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
SN 025-0071 & 025-0072

F.A.I. R.T.E. 57	SECTION (25-6, TIRS-2)	COUNTY EFFINGHAM	TOTAL SHEETS 63	SHEET NO. 49A
			CONTRACT NO. 74638	
ILLINOIS FED. AID PROJECT				

USER NAME = stacy.anderson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

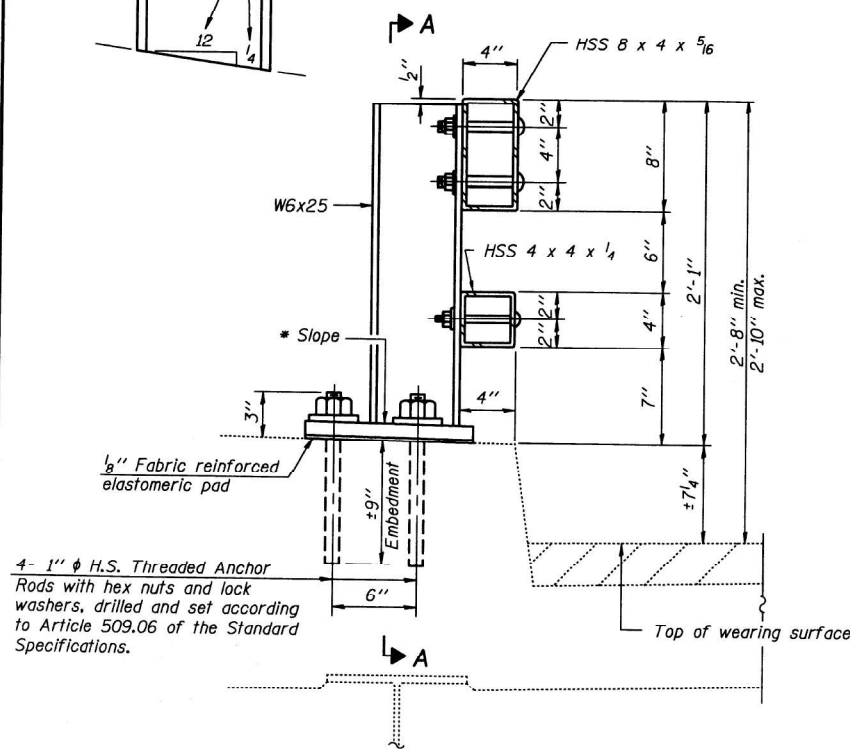
EXISTING STRUCTURE PLANS
025-0071 & 025-0072

SCALE: SHEET OF 27 SHEETS STA. TO STA.

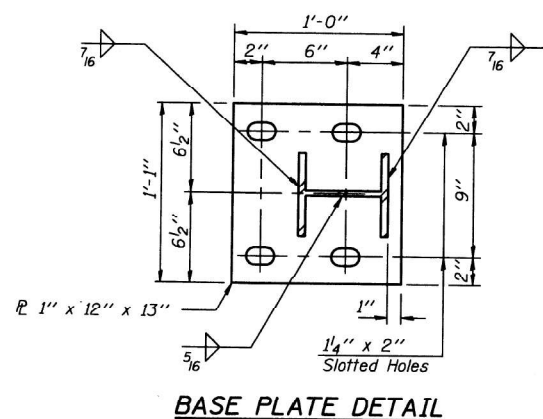
F.A.I. R.T.E. VAR	SECTION D7 BRIDGE PAINTING 2025-2	COUNTY VAR	TOTAL SHEETS 31	SHEET NO. 13
			CONTRACT NO. 74D02	
ILLINOIS FED. AID PROJECT				

MODEL: Plans - 13 (Sheet)
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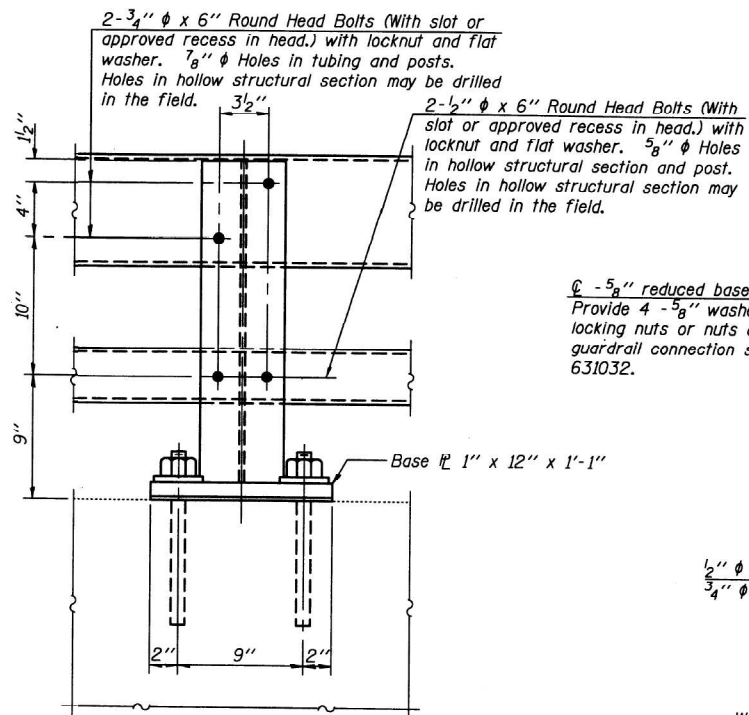
* Cut bottom end of post to curb slope.



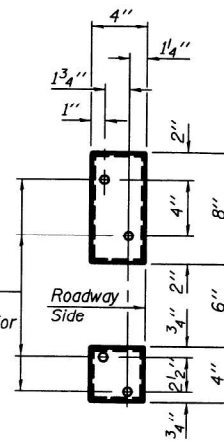
SECTION AT RAIL POST



BASE PLATE DETAIL

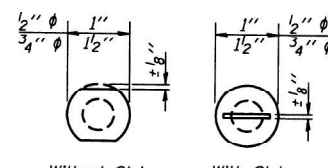


SECTION A-A

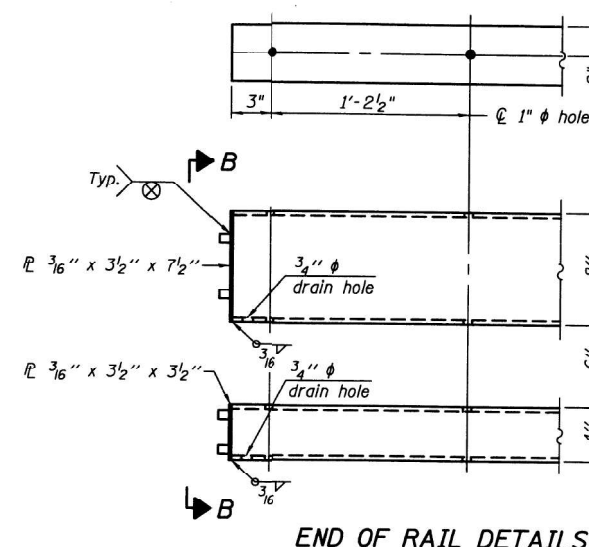


VIEW B-B

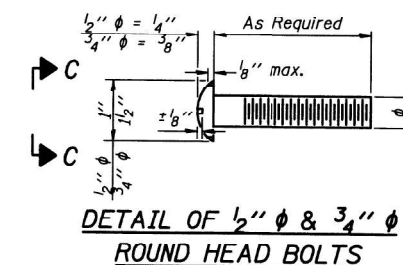
4- 5/8" reduced base welded studs. Provide 4- 3/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



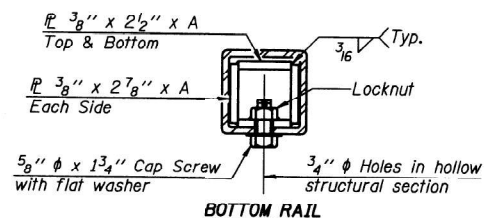
VIEW C-C



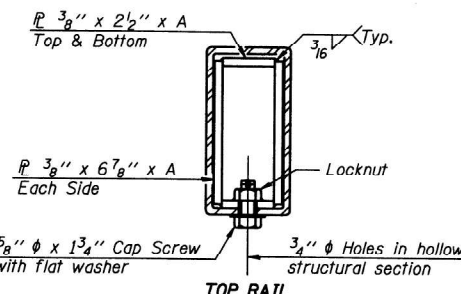
END OF RAIL DETAILS



DETAIL OF 1/2" φ & 3/4" φ ROUND HEAD BOLTS

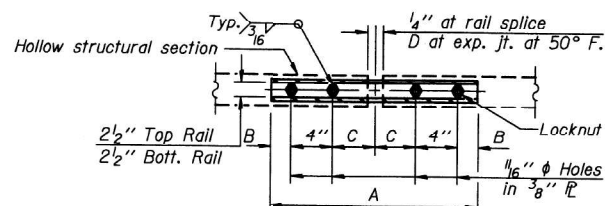


BOTTOM RAIL

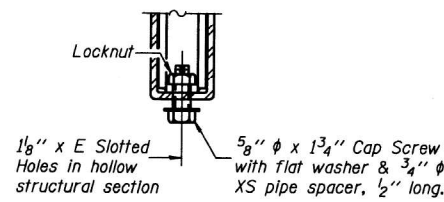


TOP RAIL

SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	1344

R-31

7-1-10

(6'-3" Maximum Post Spacing)

DESIGNED SMR	EXAMINED	DATE
CHECKED CCC	<i>Timothy A. Anderson</i>	October 15, 2014
DRAWN J. Schneller	ACTING ENGINEER OF STRUCTURAL SERVICES	
CHECKED SMR CCC	<i>Carl Perry</i>	REVISED
	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL BRIDGE RAIL (2399) DETAILS
SN 025-0071 & 025-0072

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(25-6, TRS-2	EFFINGHAM	63	49
CONTRACT NO. 74638				
ILLINOIS FED. AID PROJECT				

MODEL: Plans - 14 (Sheet)
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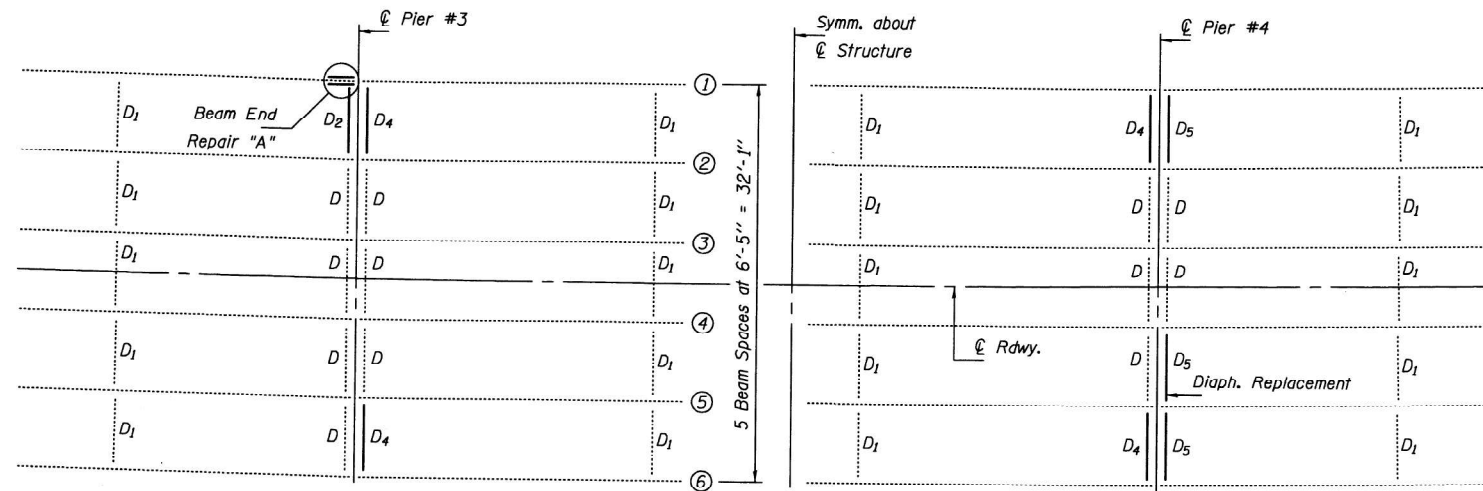
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

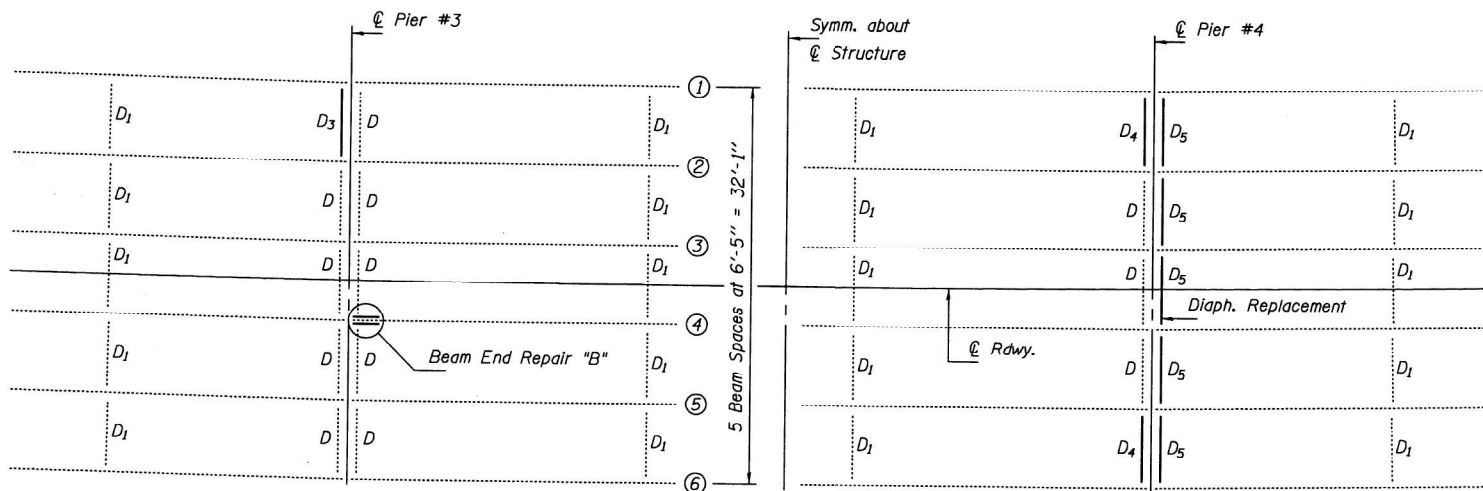
EXISTING STRUCTURE PLANS
025-0071 & 025-0072

SCALE: SHEET OF 27 SHEETS STA. TO STA.

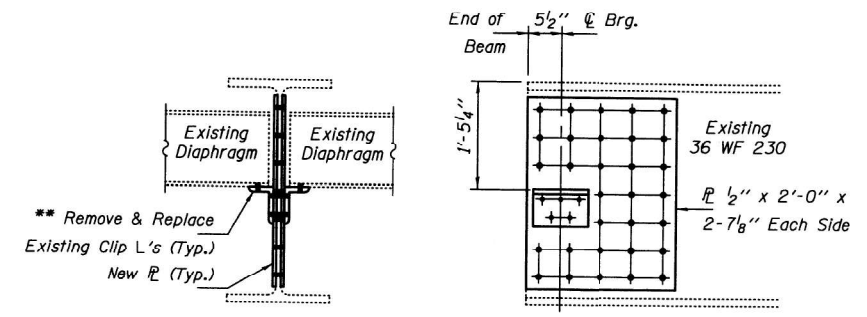
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	14
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				



**PLAN STRUCTURAL STEEL REPAIR
SOUTH BOUND LANES SN 025-0072**

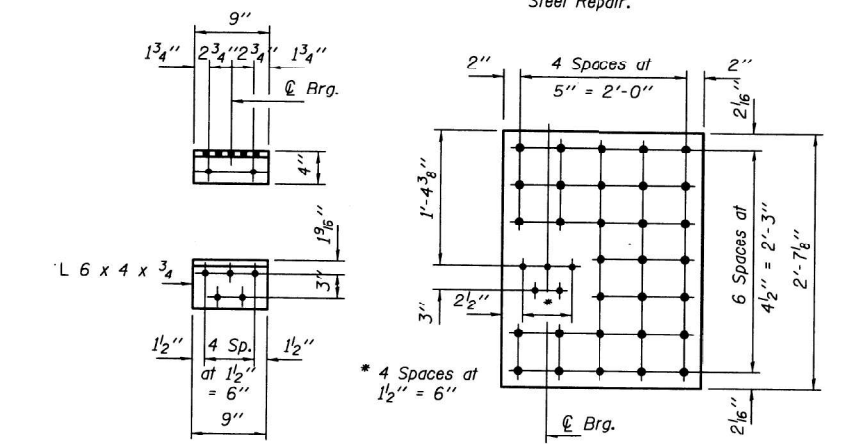


**PLAN STRUCTURAL STEEL REPAIR
NORTH BOUND LANES SN 025-0071**



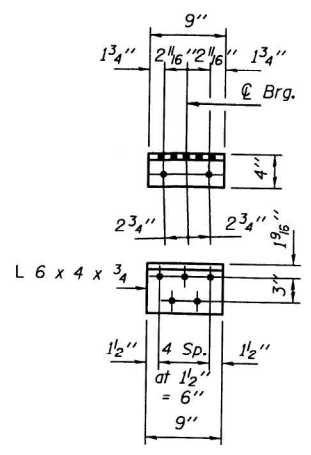
END VIEW

BEAM END REPAIR "B"

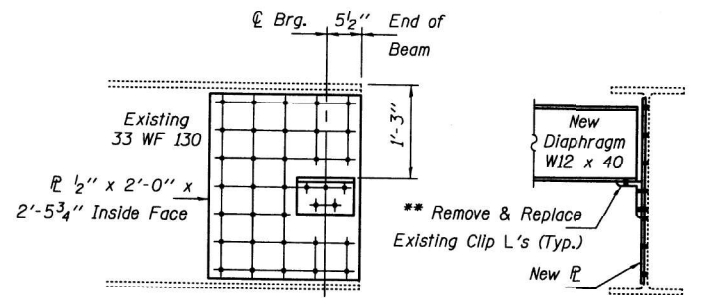


CLIP ANGLE "B"
(No. Req'd. = 2)

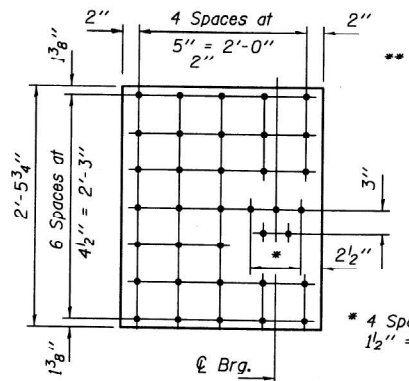
REPAIR PLATE "B"
(No. Req'd. = 2)



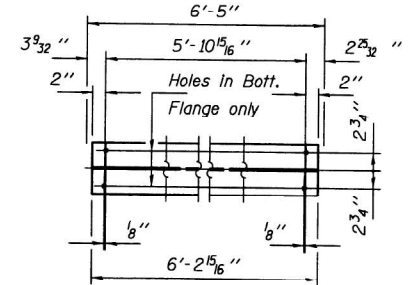
CLIP ANGLE "A"
(No. Req'd. = 1)



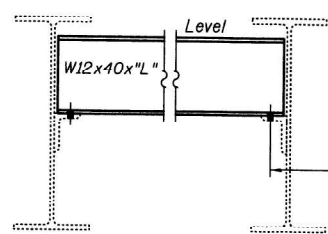
BEAM END REPAIR "A"
Cost included with Structural Steel Repair.



REPAIR PLATE "A"
(No. Req'd. = 1)



DIAPHRAGM D₂
(No. Req'd. = 1)



DIAPHRAGM REPLACEMENT DETAIL

Notes:
Field drill holes in new diaphragms using existing Clip L's as template.
(Strengthening Web Plates not shown)

DIMENSION "L"

Diaph.	"L"	No. Req'd.
D ₂	6'-3 7/16"	1
D ₄	6'-3 7/16"	6
D ₅	6'-3 7/16"	8

Using existing holes in existing clip angles as template, field drill holes in New Diaphragms at locations where strengthening R's are not used.

DESIGNED SMR	EXAMINED	DATE
CHECKED CCC	<i>Timothy A. Anderson</i>	October 15, 2014
DRAWN J. Schneller	ACTING ENGINEER OF STRUCTURAL SERVICES	
CHECKED SMR CCC	PASSED	
	<i>Paul Perry</i>	
	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
SN 025-0071 & 025-0072

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(25-6, TIRS-2)	EFFINGHAM	63	49A
CONTRACT NO. 74638				

SHEET NO. 22 OF 22 SHEETS

ILLINOIS FED. AID PROJECT

MODEL: Plans - 15 (Sheet)
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USER NAME = stacy.anderson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

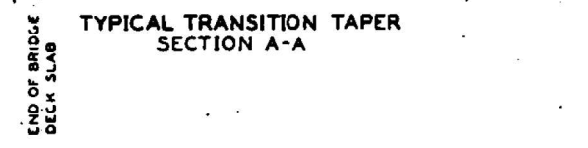
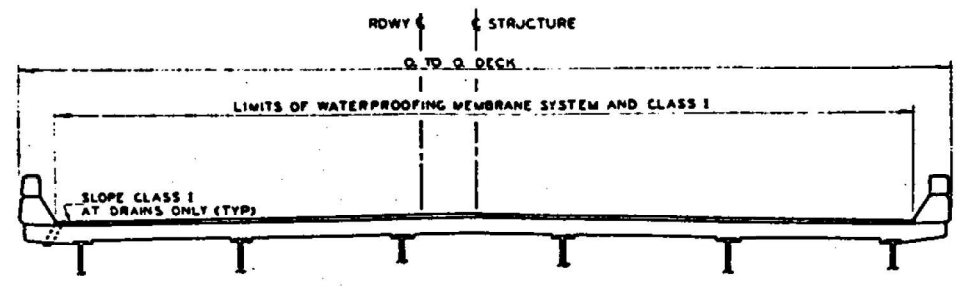
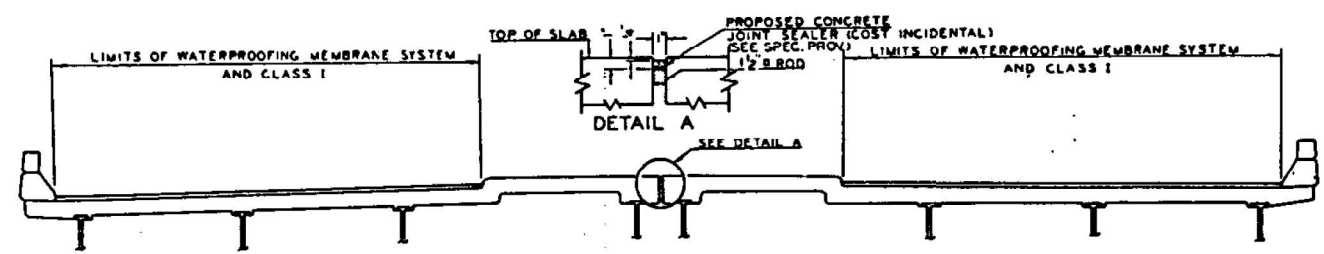
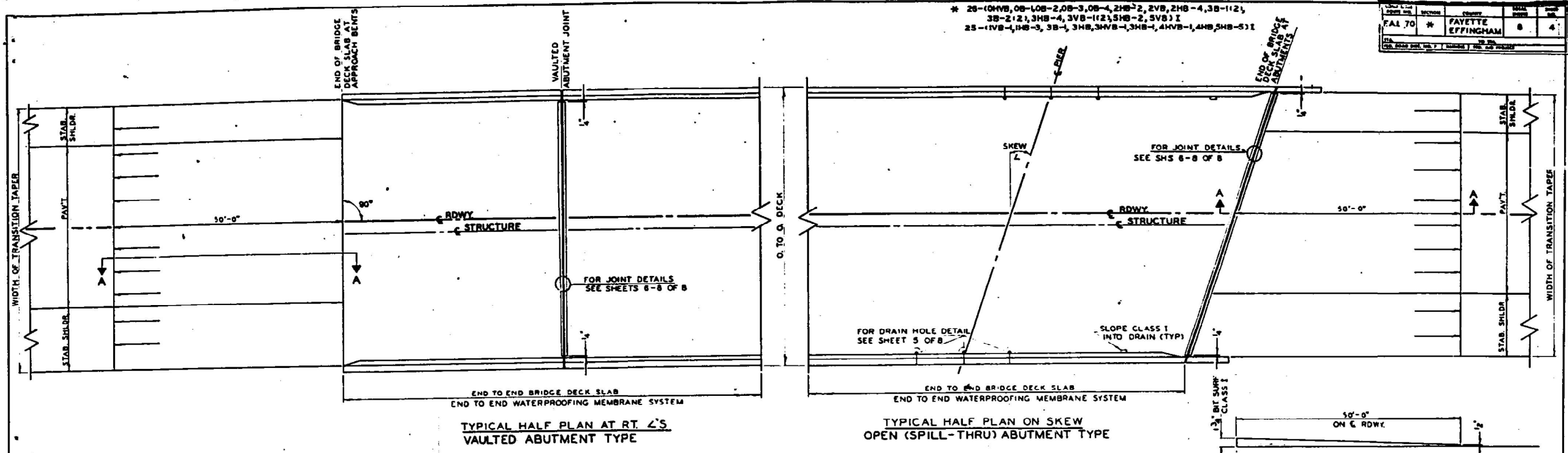
EXISTING STRUCTURE PLANS
025-0071 & 025-0072

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	15
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 70	*	FAYETTE	8	4
EFFINGHAM				

* 26-10HB, 06-10B-2, 08-3, 08-4, 2HB-2, 2VB, 2HB-4, 3B-1(2), 3B-2(2), 3HB-4, 3VB-1(2), 5HB-2, 5VB) I
 25-1VB-1, 1HB-3, 3B-1, 3HB, 3VB-1, 3HB-1, 4HB, 5HB-5) I



CLASS X SCHEDULE

SECTION	CONCRETE REMOVAL	CLASS 'X' CONCRETE	LOCATION
* 25-1VB-1	2.1	1.9	E ABUT. W.B.L.
* 25-1HB-3	15.1	15.3	C JOINT
* 25-3HB-1	2.8	2.5	E ABUT.
* 25-4HB-1	5.6	5.2	E ABUT. W.B.L.
			E ABUT. E.B.L.
* 25-3HB	4.5	4.4	PIER #1 (5029C + 52.60)
* 25-3HB	2.3	2.3	PIER #1 (77 + 114)
* 25-3HB	2.7	2.6	PIER #4 (77 + 114)
* 25-4HB	5.2	5.1	PIER #1 (5307D + 22.90)
* 25-4HB	3.0	2.9	PIER #1 (107 + 91+34)
* 25-4HB	2.5	2.4	PIER #4 (107 + 91+34)
* 25-5HB-5	12.7	12.9	C JOINT
* 26-2VB	9.2	8.4	E & W ABUT. W.B.L.
			E & W ABUT. E.B.L.
* 26-3VB-1(2)	5.1	4.7	E ABUT. W.B.L.
* 26-3VB	4.2	3.8	E ABUT. W.B.L.
			E ABUT. E.B.L.
TOTAL	77.0 CU.YD.	74.4 CU.YD.	

* NON-PARTICIPATING

SUPERSTRUCTURE TYPICALS, CLASS X SCHEDULE, TRANSITION TAPER

MODEL: Plans - 16 (Sheet) FILE NAME: c:\p\work\illinois.gov\stacy.anderson\illinois\p\0989298\077402-shr-plan.dgn

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS
026-0013 & 026-0014**

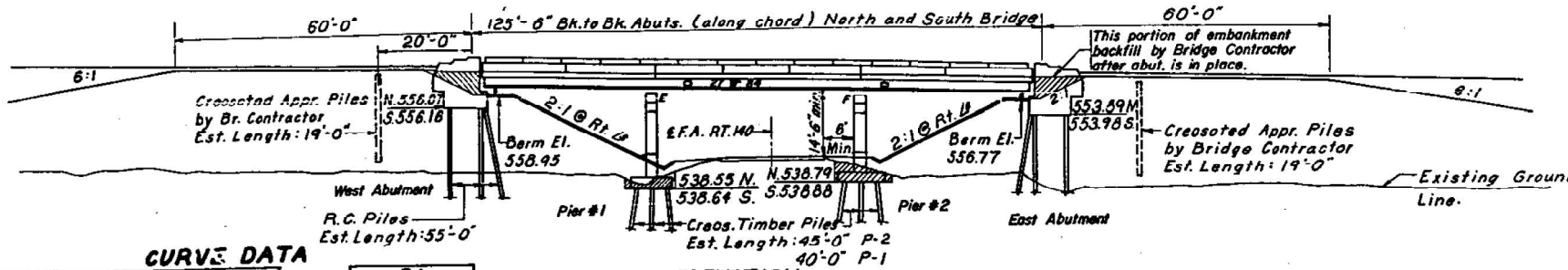
SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	16
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

B.M. Top of U.S.C. & G.S. Azimuth Marker "Vandalia 1959"
 560' Li. Sta. 457+00 El. 543.64.
 No existing structure

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	26-2HB-2	FAYETTE	27	6
SHEET NO. 11 SHEETS				



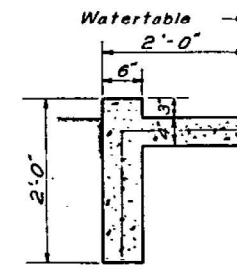
CURVE DATA

F.A.I.		F.A.	
P.I. Sta. 450+93.43	T=2007.09	Δ=22'-24"	
P.C. Sta. 430+06.34	R=4583.75	D=0'-54"	
P.T. Sta. 468+69.90	L=3703.56	T=1260.0'	
Δ=47'-17'-40"	E=420.17	R=6366.26	
D=1'-15'-00"	SE=0.01%	L=2488.9	
		E=123.6	
		SE=0.02%	

ELEVATION

Sta. 456+02
 36'-0" P-1
 40'-0" P-1

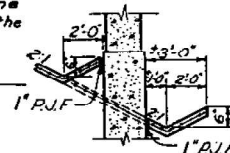
Note: The contractor shall drive two untreated timber testpiles, one in the vicinity of Pier #1 East bound lane, and one in the vicinity of pier #2 West bound lane, as directed by the Engineer before ordering remainder of piles.



SECTION A-A



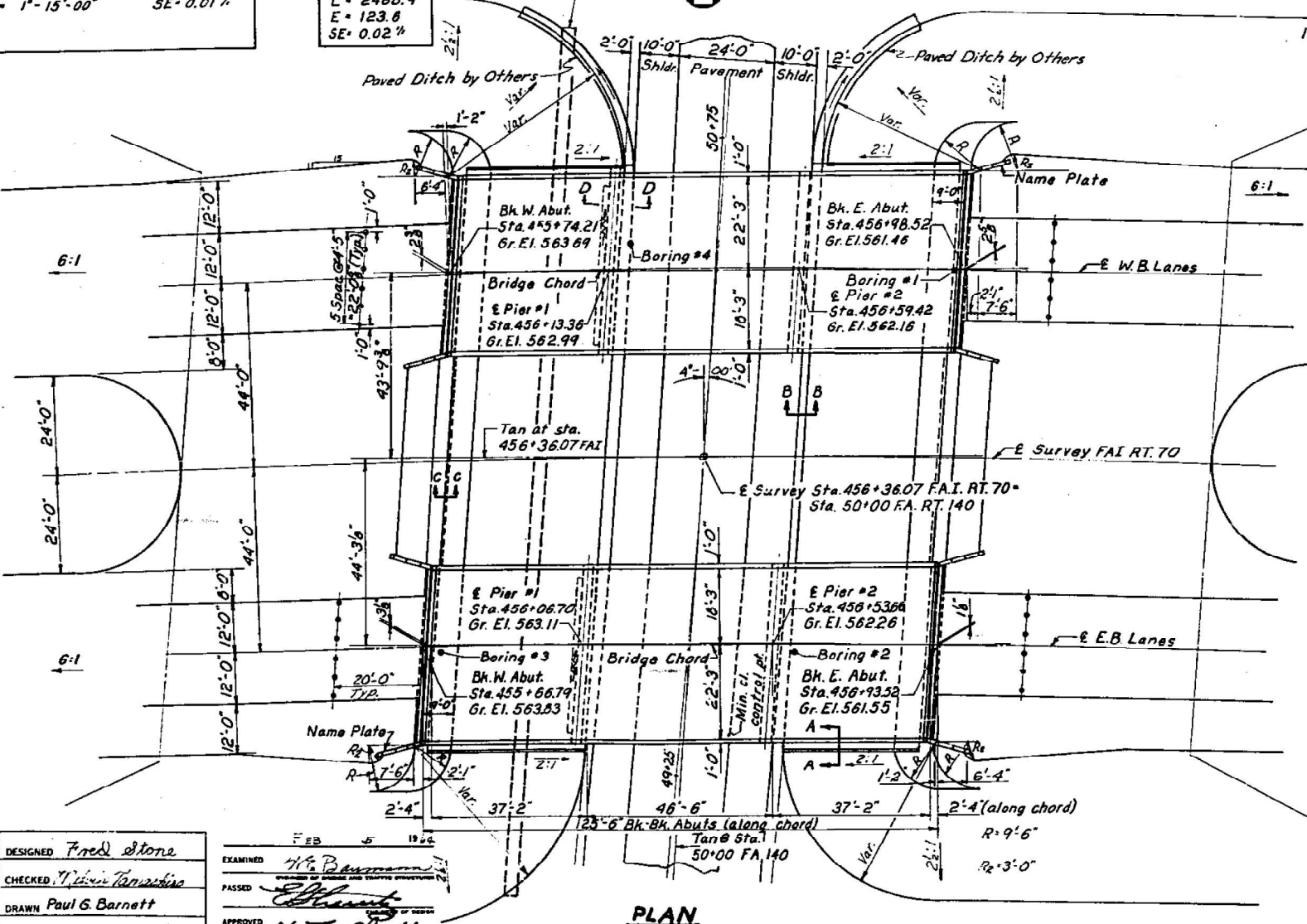
SECTION B-B



SECTION D-D



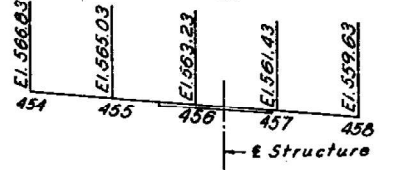
SECTION G-G



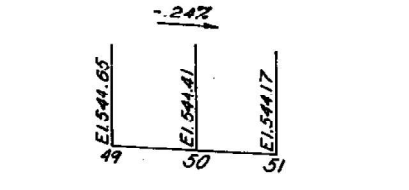
PLAN

STATION 456+36.07
BUILT 1964 BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. 26-2HB-2
F.A. PROJ. I-70-2(54)
LOADING H20-S16 & ALT.

NAME PLATE LETTERING:
 See Standard 2113-1
 (See Sheet #4 for location)
 -1.80%



GRADE PROFILE F.A.I. 70



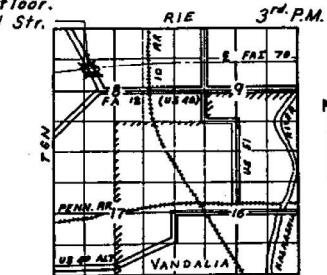
GRADE PROFILE F.A. Rt. 140

DESIGN STRESSES

$f_c = 1400$ psi Super. & Sub.
 $f_v = 75$ psi Frgs
 $f_s = 20,000$ psi Reinf
 $f_s = 20,000$ psi Struct. (A-36)
 $n = 10$
 Allowable Deflection = $\frac{1}{160}$ (Non-Comp.)
 Loading H20-S16-44 & Alternate

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end posts must be absolutely free of chert, flint, limonite and soft sandstone.
 The concrete floor slab shall be finished in accordance with Article 51.19 of the Std. & Supp. Specs.
 Slope Wall shall be reinforced with wire fabric 6"x6" mesh, weighing 56# per 100 Sq. ft.
 All structural steel shall conform to A.S.T.M. designation A-36.
 Rivets 3/4", Open Holes 1 1/2", unless otherwise noted.
 Anchor bolts shall be set before fastening diaphragms over supports.
 The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.
 Expansion guards are included in the quantity of Structural Steel. Est. weight = 4450 lbs.
 Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.
 The contractor shall drive two concrete test piles, one at West Abutment West bound lane, and one at East Abutment East bound lane, all in permanent locations as directed by the Engineer before ordering the remainder of piles.
 Permanent forms will not be permitted in forming the concrete floor.
 Proposed Str.



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB.	TOTAL
Class A Excavation for Structure	Cu. Yds.		200	200
Class X Concrete	Cu. Yds.	2800	375.6	655.6
Structural Steel	Lbs.	493,770		493,770
Aluminum Handrail	Lin. Ft.	490		490
Reinforcement Bars	Lbs.	67,410	37,680	105,090
Creasoted Piles (Up to 20')	Lin. Ft.	456		456
Creasoted Piles (Over 36')	Lin. Ft.		2,890	2,890
Test Piles (Concrete)	Each		2	2
Name Plates	Each	2		2
Slope Wall (4')	Sq. Yds.		1,260	1,260
Protective Coat	Sq. Yds.	1,200		1,200
Test Piles (Timber)	Each		2	2
Concrete Piles	Lin. Ft.		1,870	1,870
Bridge Seal Sealant	Lbs.			1

* Abutments Only

GENERAL PLAN & ELEVATION
PRCJ. I-70-2(54) 61

F.A.I. RT. 70
OVER F.A. Rt. 140 (ILL. RT. 185)
SEC. 26-2HB-2
FAYETTE COUNTY
STA. 456+36.07

DESIGNED Fred Stone	EXAMINED
CHECKED	PASSED
DRAWN Paul G. Barnett	APPROVED
CHECKED	

Rev. 5-14-64. Borrow Excavation 42,000 Cu. Yds. rev. to Earth Excavation 59,057 Cu. Yds.
 Protective Coat revised from 1250 Cu. Yds. to 1200 Cu. Yds.
 side slopes rev. from 2:1 to 2 1/2:1

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USER NAME = stacy.anderson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 026-0013 & 026-0014

SCALE: SHEET OF 27 SHEETS STA. TO STA.

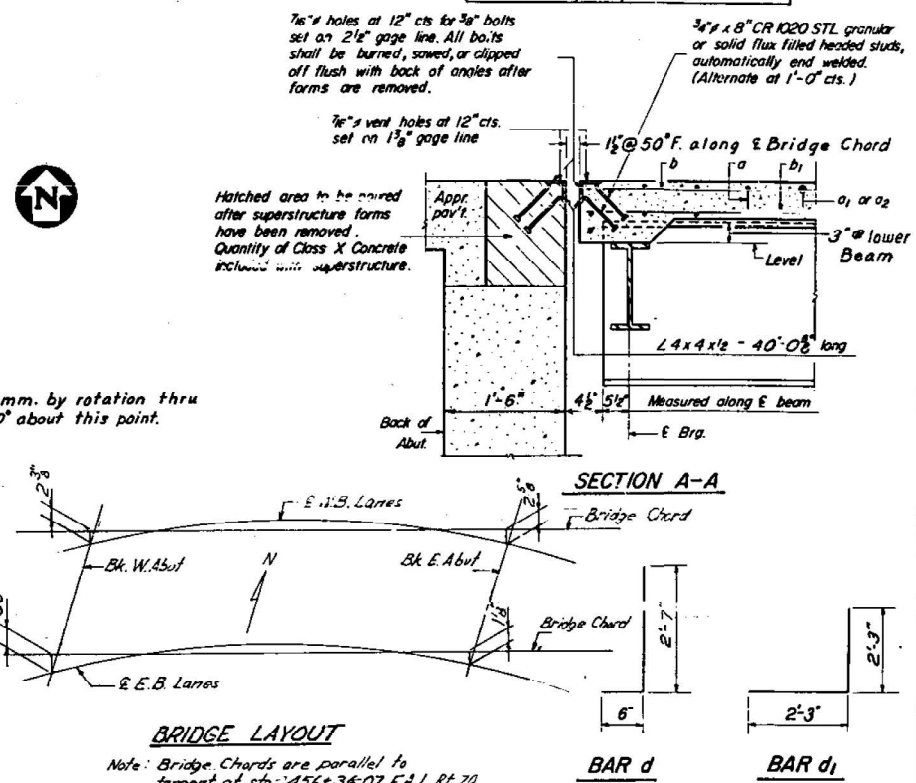
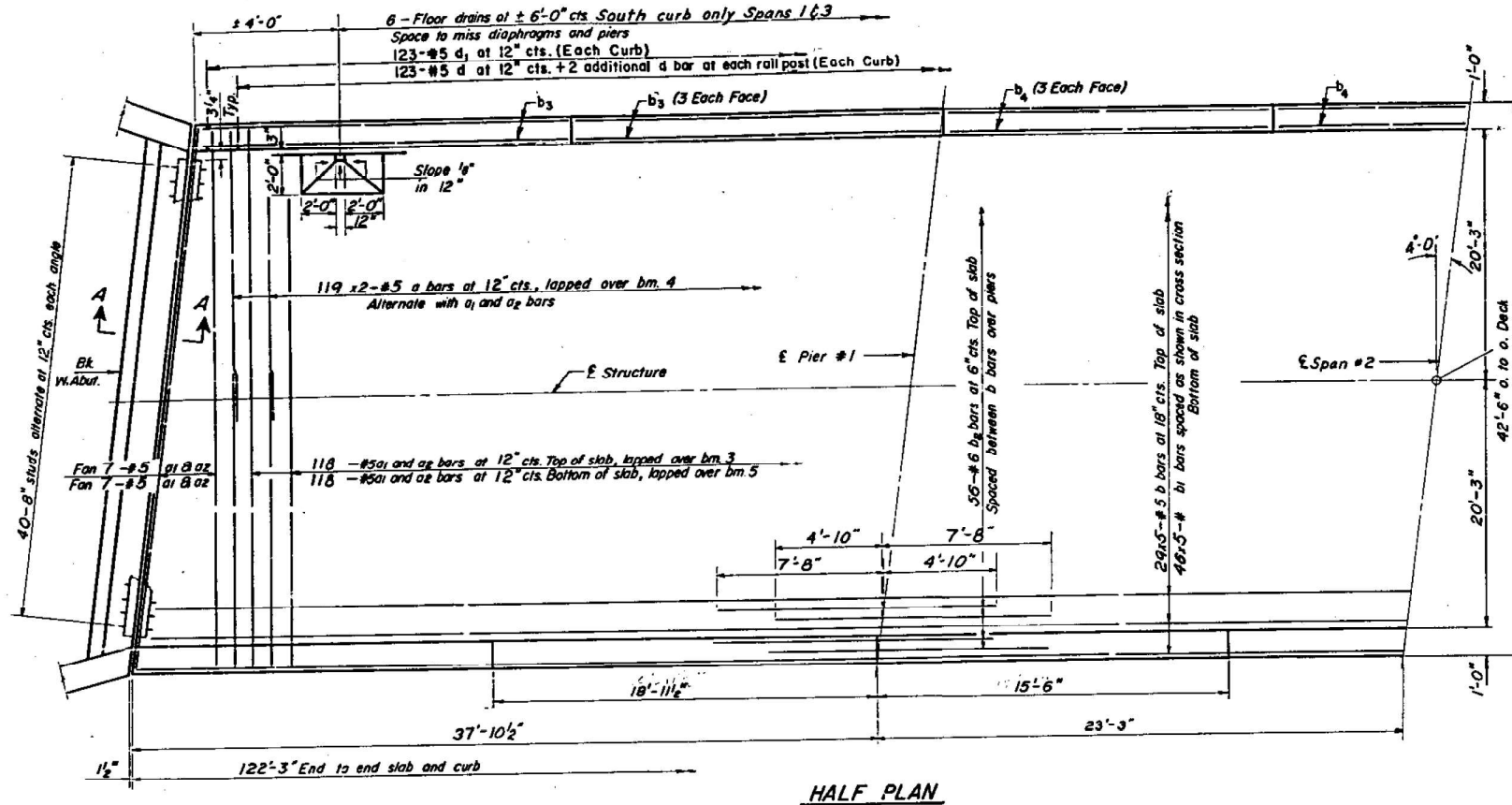
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	17
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-1-70	26-2HB-2	FAYETTE	27	7
FED. ROAD DIST. NO. 1			ILLINOIS	FED. AID PROJECT

SHEET NO. 2
11 SHEETS

Note:
Bars indicated thus 20x3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
Min. bar laps = 20 dia.

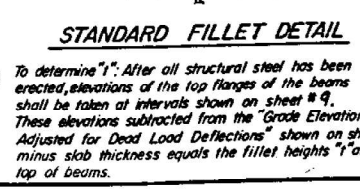
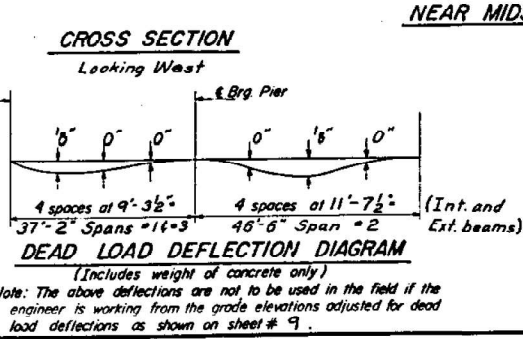
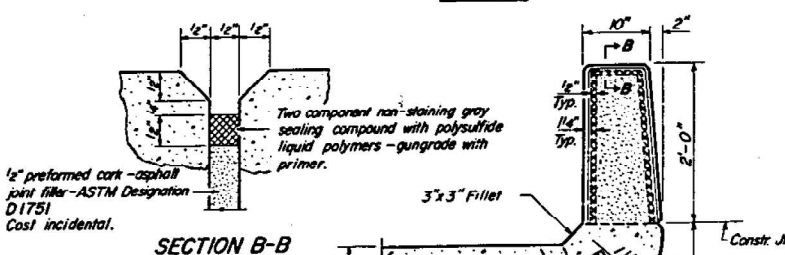
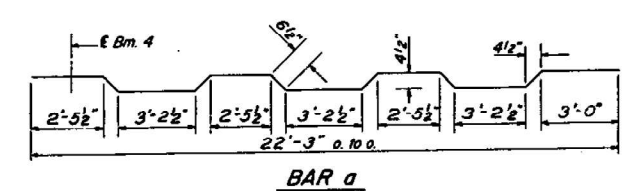
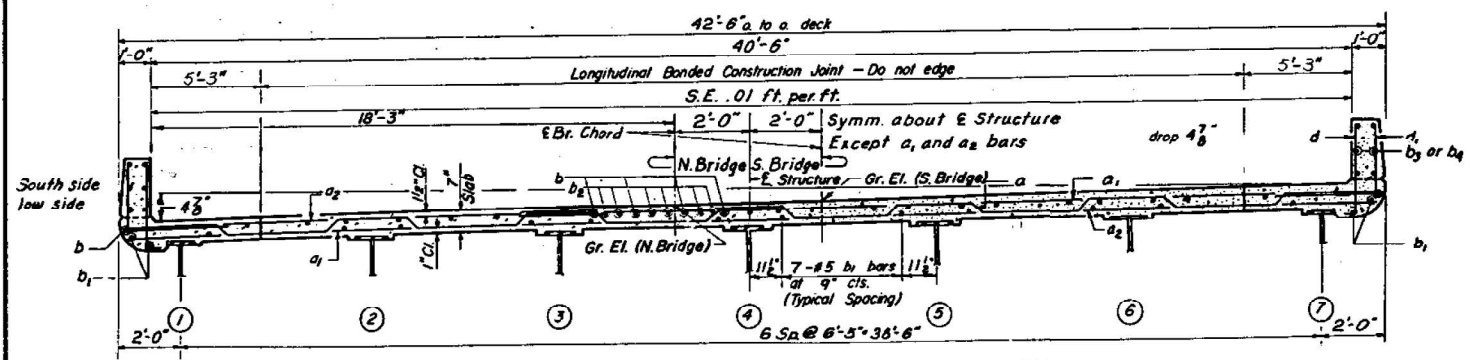


TWO BRIDGES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	476	#5	23'-3"	~
a ₁	528	#5	28'-6"	—
a ₂	528	#5	15'-10"	—
b	290	#5	25'-6"	—
b ₁	460	#5	25'-8"	—
b ₂	224	#6	12'-6"	—
b ₃	98	#5	18'-8"	—
b ₄	72	#5	15'-3"	—
d	612	#5	3'-1"	—
d ₁	492	#5	4'-6"	—

Class X Concrete	Cu Yd	280.0
Reinforcement Bars	Lbs.	67,440
Structural Steel	Lbs.	193,770

* Weight of bearing assemblies with load plates and anchor bolts are included as structural steel.
Est Weight = 14,390 lbs.



DESIGNED Fred Stone
CHECKED Minnie Ramirez
DRAWN Paul G. Barnett
CHECKED J.M.S.

EXAMINED H.G. Baumann
PASSED J.E. Cluff
APPROVED J.E. Cluff

F.A.I. 5 1962

SUPERSTRUCTURE
F.A.I. Rt. 70 SEC. 26-2HB-2
FAYETTE COUNTY
STA. 456 + 36.07

I-7-L (≤ 15°) 11-15-62

MODEL: Plans - 18 (Sheet)
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USER NAME = stacy.anderson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

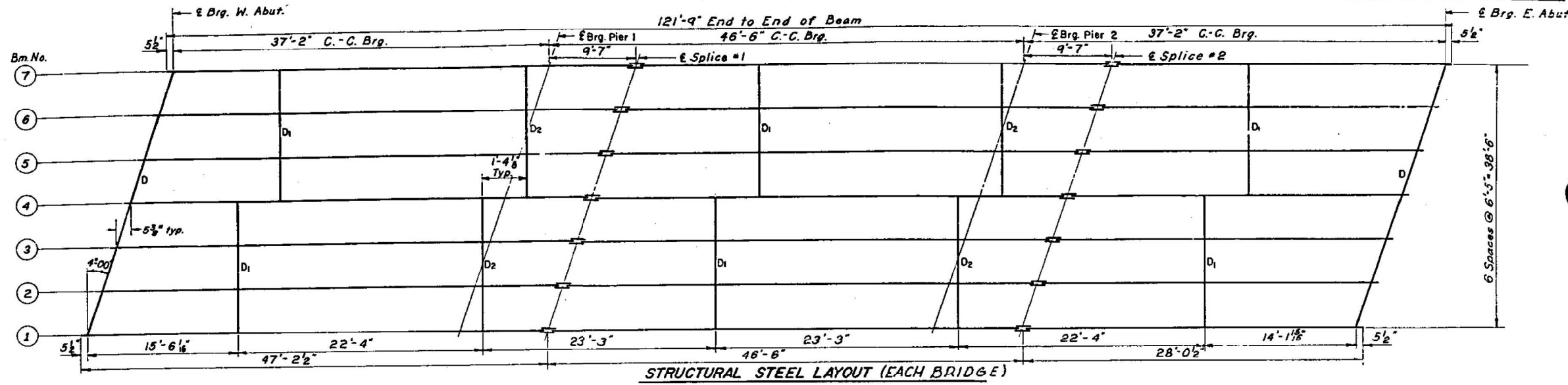
EXISTING STRUCTURE PLANS
026-0013 & 026-0014

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	18
CONTRACT NO. 74D02			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 70	26-2HB-2	FAYETTE	27	8



STRUCTURAL STEEL LAYOUT (EACH BRIDGE)
All Beams 27 WF 84

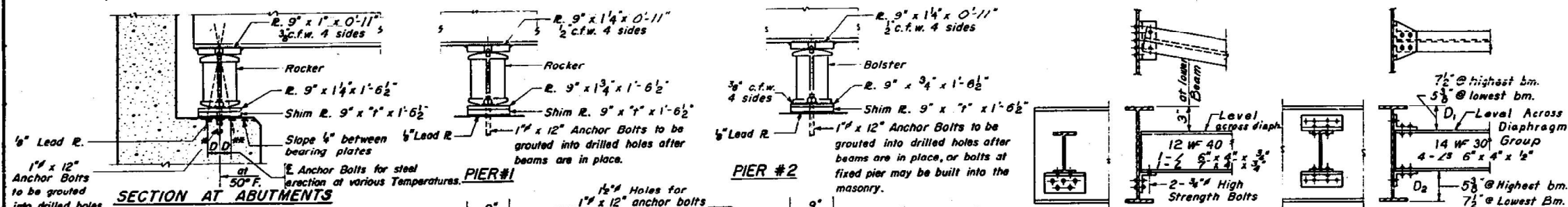
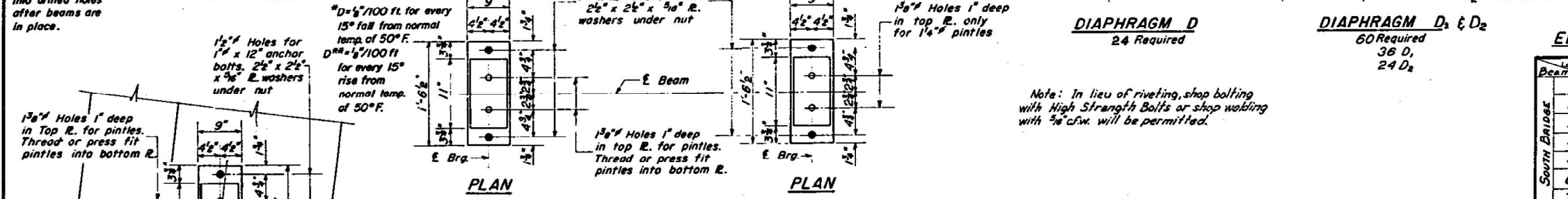


TABLE OF "I" DIMENSIONS

Locations	Bm. #2	Bm. #4	Bm. #6
Brigs. Abuts & Piers	3"	3"	3"



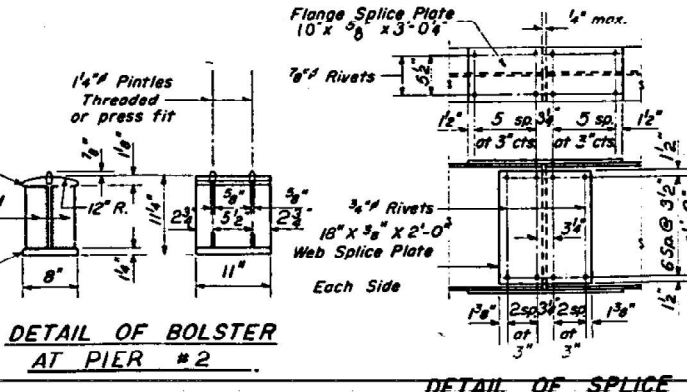
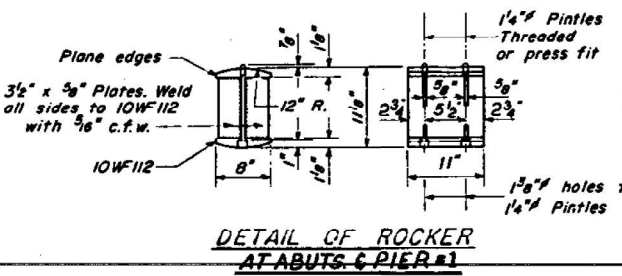
ELEVATION TOP OF WF

Beam	Loc. at Abut.	Brig. Pier #1	Splice #1	Brig. Pier #2	Splice #2	Brig. Abut.
1	563.01	562.31	562.14	561.47	561.30	562.83
2	563.07	562.37	562.20	561.53	561.36	562.89
3	563.12	562.42	562.25	561.58	561.41	562.94
4	563.18	562.48	562.31	561.64	561.47	561.00
5	563.24	562.54	562.37	561.70	561.53	561.06
6	563.29	562.59	562.42	561.75	561.58	561.11
7	563.35	562.65	562.48	561.81	561.64	561.17
1	562.92	562.25	562.08	561.38	561.21	560.74
2	562.98	562.31	562.14	561.44	561.27	560.80
3	563.03	562.36	562.19	561.49	561.32	560.85
4	563.09	562.41	562.24	561.55	561.38	560.91
5	563.15	562.46	562.29	561.61	561.44	560.97
6	563.20	562.51	562.34	561.66	561.49	561.02
7	563.26	562.56	562.39	561.72	561.55	561.08

STRUCTURAL STEEL NORTH & SOUTH BRIDGES

F.A.I. Rt. 70 SEC. 26-2HB-2
FAYETTE COUNTY
STA. 456 + 36.07

DESIGNED Fred Stone
CHECKED M. J. ...
DRAWN ...
EXAMINED ...
PASSED ...
APPROVED ...



I-2 7-2-62 Rev. 11-9-62

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0013 & 026-0014

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	19
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

F.A. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
777	9BR-2	FAYETTE	17	7

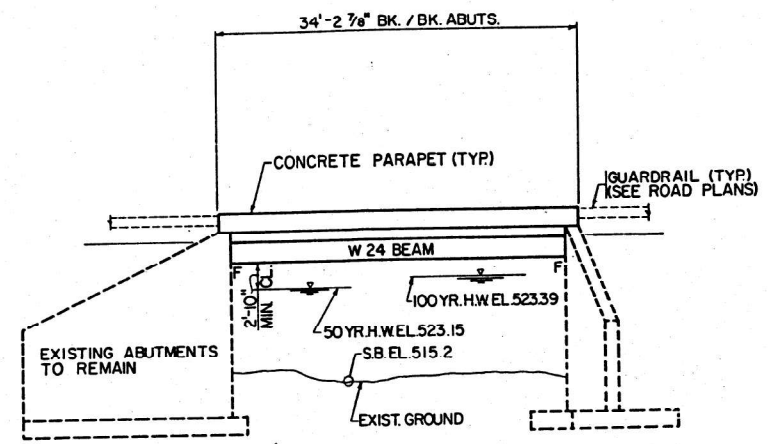
SHEET 1 OF 9

B.M.-CHISELED "O" S.W. WING OF EXISTING STRUCTURE. STA. 911+66. EL. 527.61.

EXISTING STRUCTURE: NO. 026-0051
SINGLE SPAN RC DECK GIRDER BRIDGE, AT 45° SKEW, ON CLOSED CONCRETE ABUTMENTS, (BUILT 1936). 34'-3" BK. / BK. OF ABUTMENTS, 40' FACE TO FACE OF HUBGUARDS.

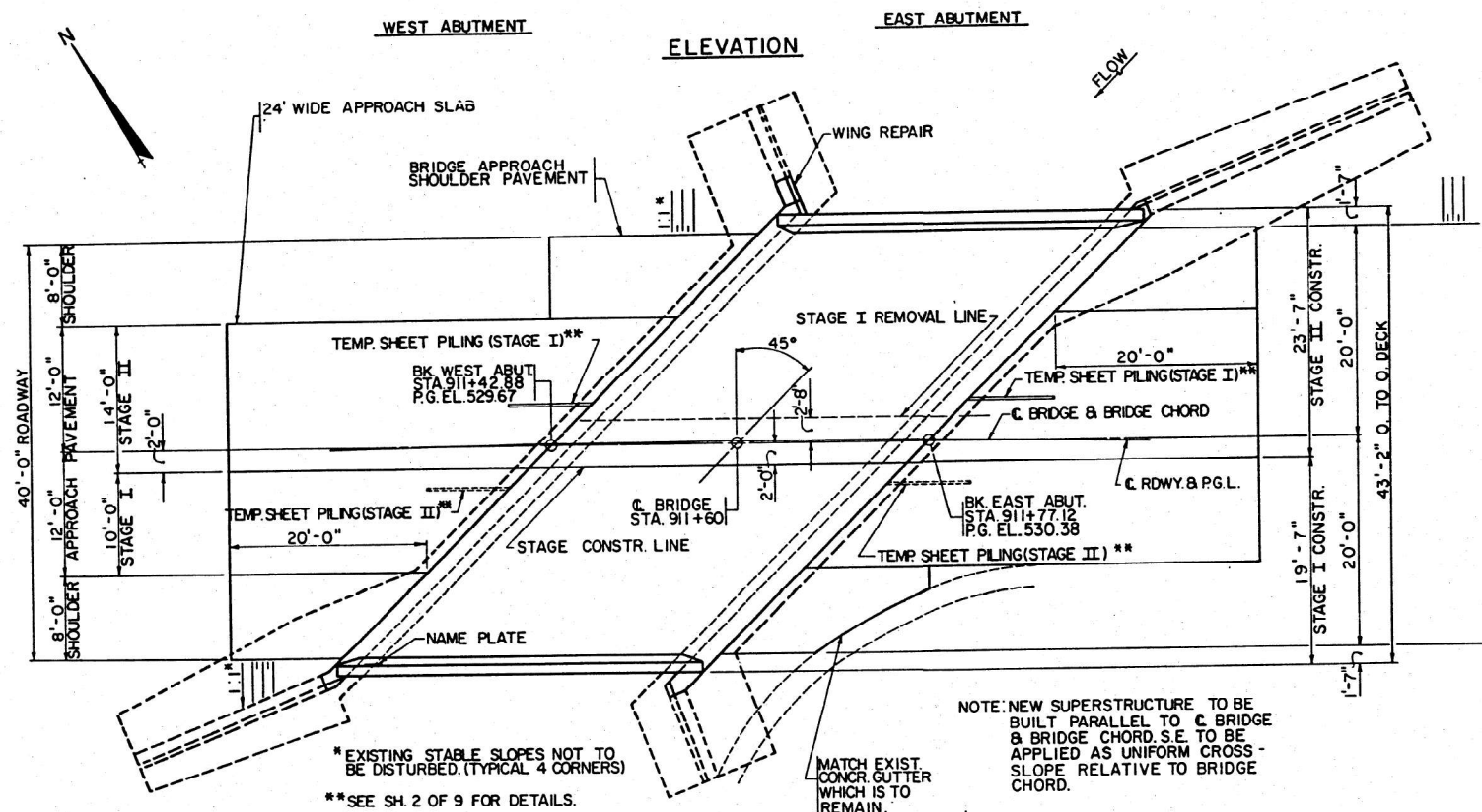
CONTRACTOR SHALL REMOVE THE EXISTING SUPERSTRUCTURE AND PORTIONS OF THE ABUTMENTS UTILIZING STAGE CONSTRUCTION. ONE WAY TRAFFIC SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

NO SALVAGE.



GENERAL NOTES

- FASTENERS SHALL BE HIGH STRENGTH BOLTS (A.A.S.H.T.O. M164, TYPE 3). BOLTS 3/4" Ø, OPEN HOLES 1 1/16" Ø, UNLESS OTHERWISE NOTED.
- CALCULATED WEIGHT OF STRUCTURAL STEEL = 15,880 LBS.
- ALL STRUCTURAL STEEL SHALL BE A.A.S.H.T.O. M222.
- THE BACK FACE OF NEW CONSTRUCTION AT THE ABUTMENTS SHALL BE WATERPROOFED ACCORDING TO ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. THIS INCLUDES THE NEW STEPS AND DIAPHRAGMS. EXISTING ABUTMENTS ARE TO REMAIN IN PLACE.
- FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
- THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE W24 WIDE FLANGE BEAMS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. M-31 OR M-53 GRADE 60.
- BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE HAS BEEN POURED. SEE GENERAL NOTE NO. 12 AND ARTICLE 502.11 OF THE STANDARD SPECIFICATIONS.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- BEARING SEAT 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.
- THE PROPOSED BRIDGE IS TO BE CONSTRUCTED IN TWO STAGES. DURING CONSTRUCTION, PORTIONS OF THE EXISTING AND PROPOSED BRIDGES ARE TO BE USED FOR REVERSIBLE ONE-WAY TRAFFIC FOR DETAILS OF STAGE CONSTRUCTION, SEE SHEET 2 OF 9.
- EXISTING ABUTMENT BREASTWALLS ARE OF THE SIMPLE SPAN TYPE AND REQUIRE HORIZONTAL SUPPORT AT THE TOP FOR STABILITY. BRACING OR OTHER TEMPORARY SUPPORT MUST BE PROVIDED BEFORE PORTIONS OF THE SUPERSTRUCTURE ARE REMOVED DURING STAGE CONSTRUCTION. THE CONTRACTOR SHALL FURNISH A PROPOSED SCHEME AND DESIGN OF SUCH TEMPORARY SUPPORT, FOR REVIEW AND APPROVAL, PRIOR TO CONSTRUCTION. THE SCHEME SHOWN ON SH 2 IS INTENDED ONLY TO ESTABLISH A MINIMUM STANDARD OF PROTECTION REQUIRED. COST INCIDENTAL TO CONTRACT.



STATION 911+60
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 777 SEC. 9BR-2
F.A. PROJECT BHF-777(1)
LOADING HS 20
STR. NO. 026-0051

LETTERING FOR NAME PLATE
(SEE STD. 2113)
LOCATE AT SOUTHWEST CORNER OF BRIDGE

TOTAL BILL OF MATERIAL

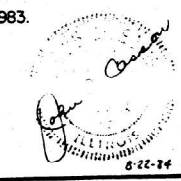
ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING SUPERSTRUCTURES EACH		1		1
CONCRETE REMOVAL	CU.YD.		2.1	2.1
STRUCTURE EXCAVATION	CU.YD.	32		32
PROTECTIVE COAT	SQ.YD.	179		179
CLASS X CONCRETE	CU.YD.	49.3	4.2	53.5
STRUCTURAL STEEL	L.SUM	1		1
STUD SHEAR CONNECTORS	EACH	648		648
REINFORCEMENT BARS	POUND	950	450	1400
REINFORCEMENT BARS (EPOXY COATED)	POUND	9630		9630
TEMPORARY SHEET PILING	SQ.FT.	256		256
NAME PLATES	EACH	1		1

NEW CONSTRUCTION DESIGN STRESSES

f'c = 3,500 p.s.i.
f'y = 60,000 p.s.i. (REINFORCEMENT)
f'y = 50,000 p.s.i. (STR. STEEL, M-222)
LOADING HS 20-44
(+25 p.s.f. ALLOWANCE FOR FUTURE WEARING SURFACE).
DESIGN SPECIFICATIONS: A.A.S.H.T.O. 1983.

APPROVED

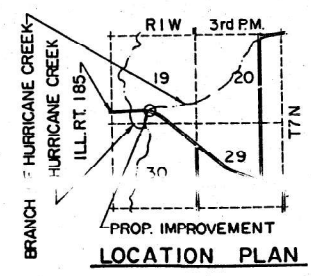
James J. Ray, P.E.
Engineer of Bridge Structures



WATERWAY DATA

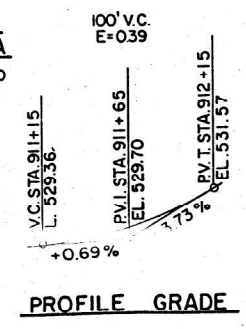
DRAINAGE AREA = 2.27 SQ.MI.		LOW GRADE EL. = 528.24		AT STA. 902+00			
FLOOD	FREQ. YR.	Q. C.F.S.	OPENING EXIST. PROP.	NAT. H.W.E.	HEAD-FT. EXIST.	PROP.	HEADWATER EL. EXIST. PROP.
DESIGN	50	1254	155 155	523.15	2.88	2.88	526.03 526.03
BASE	100	1313	160 160	523.39	2.97	2.97	526.36 526.36
OVERFLOWING							
MAX. CALC.	500	1490	171 171	523.89	2.94	2.94	526.83 526.83

PLAN



ROADWAY CURVE DATA

P.I. STA. 916+25.00
Δ = 40°-10' (RT.)
D = 2°-20'
R = 2455.53'
T = 897.79'
L = 1721.40'
E = 159.00'
SE = 0.04' / FT.



1	BRIDGE OFFICE REVIEW	JCC/2-30-84
REV. NO.	DESCRIPTION	BY DATE APPROVAL
GENERAL PLAN & ELEVATION		
Design: JCC	BRANCH OF HURRICANE CREEK	SCALE NONE
Date: 2-22-84	SEC. 9BR-2, F.A. RT. 777	SBC PROJECT NO. 034-8401
Drawn: JCC/JR	FAYETTE COUNTY	CLIENT PROJECT NO. 0-97-020-82
Date: 2-22-84		DRAWING NO.
Checked: TRC		
Approved:	BUC BLANK, WESSELINK, COOK & ASSOCIATES, INC.	
Date:	ENGINEERS & CONSULTANTS	
Client:		
Appr.:		
Date:		

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

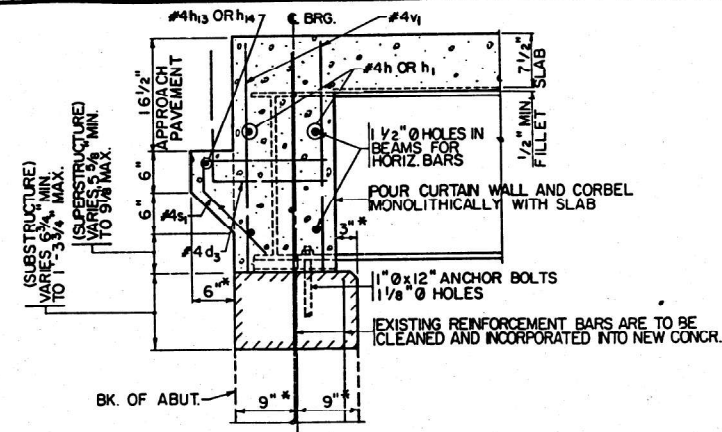
EXISTING STRUCTURE PLANS
026-0051

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	20
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

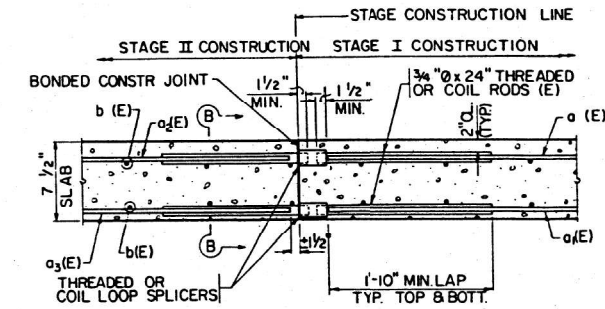
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777	9BR-2	FAYETTE	17	11

ILLINOIS PROJECT SHEET 5 OF 9.

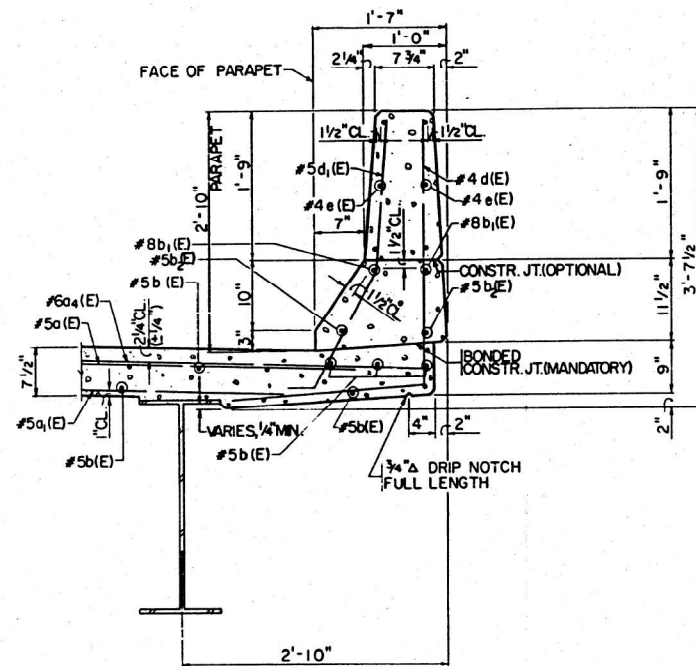


SECTION A-A

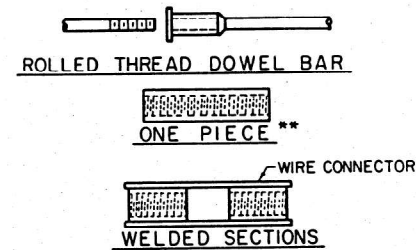
*ALL DIMENSIONS AT RIGHT ANGLES TO ABUTMENT.



SECTION THRU SLAB

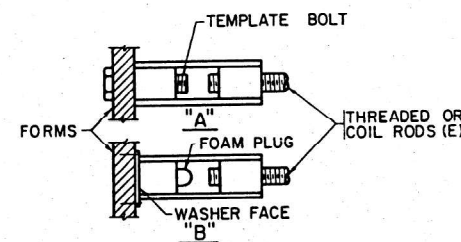


SECTION THRU PARAPET



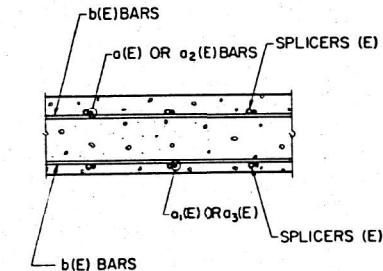
SPLICER ALTERNATIVES

**HEAVY HEX NUTS CONFORMING TO ASTM A563, GRADE C, D OR DH MAY BE USED.



"A"-SET SPLICER BY MEANS OF A TEMPLATE BOLT.
 "B"-SET SPLICER BY NAILING TO WOOD FORMS OR CEMENTING TO STEEL FORMS.
 (E) INDICATES EPOXY COATING, SEE SPECIAL PROVISIONS

INSTALLATION AND SETTING METHODS



SECTION B-B

SPLICER NOTES

STEEL SPLICER (COUPLER) ASSEMBLY SHALL BE OF AN APPROVED TYPE AND SHALL DEVELOP TENSION AT LEAST 125 PERCENT OF THE YIELD STRENGTH OF THE LAPPED REINFORCEMENT BARS.

STEEL SPLICER RODS SHALL BE OF MINIMUM 60 KSI. YIELD STRENGTH, THREADED OR COILED FULL LENGTH AND HAVE EFFECTIVE TENSILE STRESS AREA EQUAL OR GREATER THAN THAT OF THE LAPPED REINFORCEMENT BARS.

SPLICER RODS SHALL EXTEND A MINIMUM 1 1/2 INCHES INTO THE COUPLERS

ALL REINFORCEMENT BARS SHALL BE LAPPED AND TIED TO THE SPLICER RODS.

SPLICER (COUPLER) ASSEMBLY IN THE SLAB SHALL BE EPOXY COATED IN ACCORDANCE WITH THE REQUIREMENTS FOR REINFORCEMENT BARS.

OTHER SYSTEMS OF SIMILAR DESIGN MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL. APPROVAL SHALL BE BASED ON CERTIFIED TEST RESULTS FROM AN APPROVED TESTING LABORATORY THAT THE PROPOSED SPLICER (COUPLER) ASSEMBLY SATISFIES THE FOLLOWING REQUIREMENTS:

- ① MINIMUM CAPACITY = 125 x fy x At (TENSION IN KIPS)
- ② MINIMUM PULL-OUT STRENGTH = 125 x fs x At (TENSION IN KIPS)

WHERE fy = YIELD STRENGTH OF LAPPED REINFORCEMENT BARS IN KSI
 fs = ALLOWABLE TENSILE STRESS IN LAPPED REINFORCEMENT BARS IN KSI (SERVICE LOAD)
 At = TENSILE STRESS AREA OF LAPPED REINFORCEMENT BARS
 * = 28 DAY CONCRETE

TYPICAL SPLICER (COUPLER) ASSEMBLY SIZES:
 #5 BAR LAP WITH 3/4" Ø SPLICER MIN. CAPACITY = 230 KIPS-TENSION
 IN SLAB [COUPLER] x 2'-0" SPLICER RODS MIN. PULL-OUT STRENGTH = 92 KIPS-TENSION

SPLICER DETAILS

(NO REQ'D. 109)
 (COST INCIDENTAL TO REINFORCEMENT BARS (EPOXY COATED)).

REV NO.	DESCRIPTION	BY	DATE	APPROVAL
1	BRIDGE OFFICE REVIEW		JCC-2-30-04	
SUPERSTRUCTURE				
Design TRC	BRANCH OF HURRICANE CREEK		SCALE NONE	
Date 8-22-04	SEC. 9BR-2, F.A. RT. 777		BCC PROJECT NO. 034-8401	
Drawn JCC/R	FAYETTE COUNTY		CLIENT PROJECT NO. P-97-020-82	
Date 8-22-04	STA. 911+60			
Checked JCC	WESSELINK, COOK & ASSOCIATES, INC.			
Date 8-22-04	ENGINEERS & CONSULTANTS			

8323

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	CHECKED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

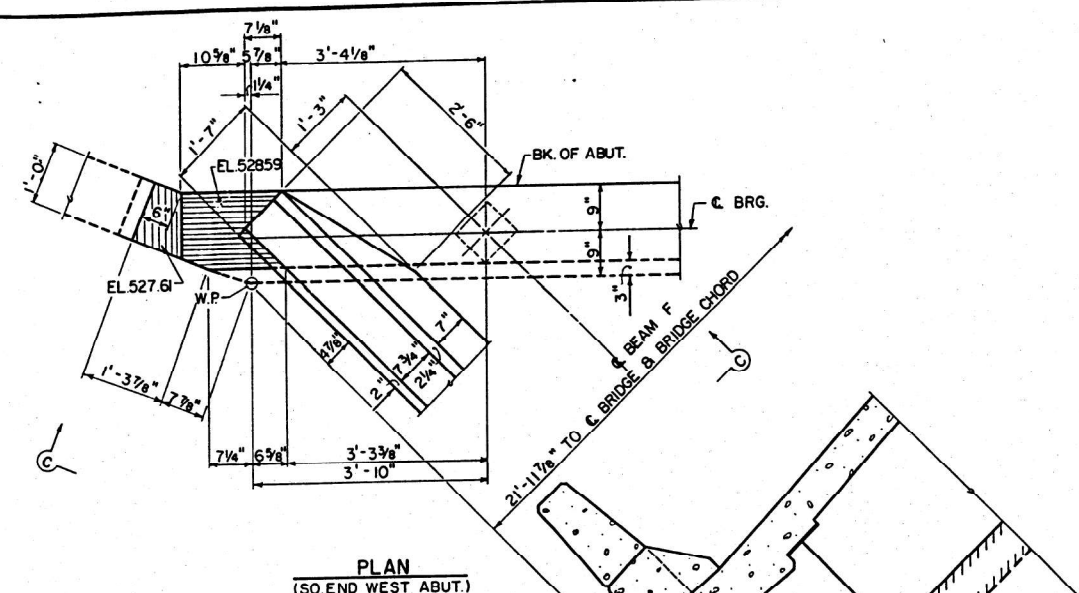
EXISTING STRUCTURE PLANS
 026-0051

SCALE: SHEET OF 27 SHEETS STA. TO STA.

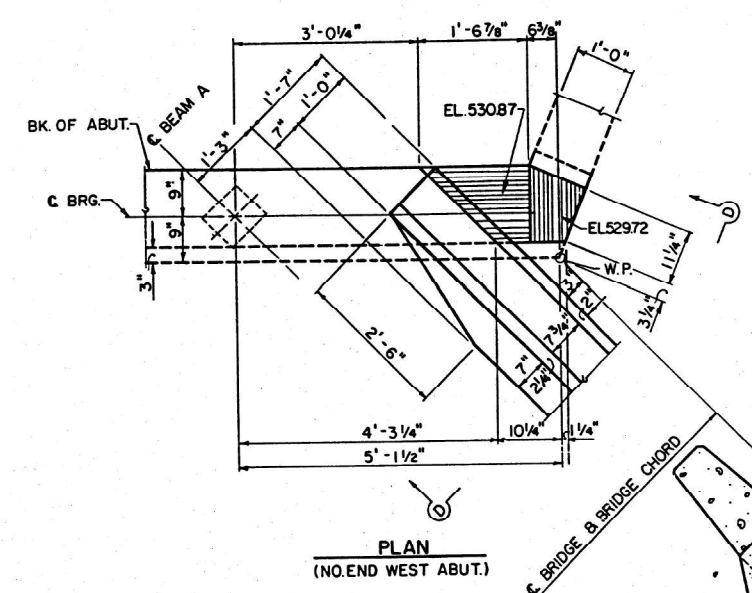
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VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	21
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

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ILLINOIS PROJECT				

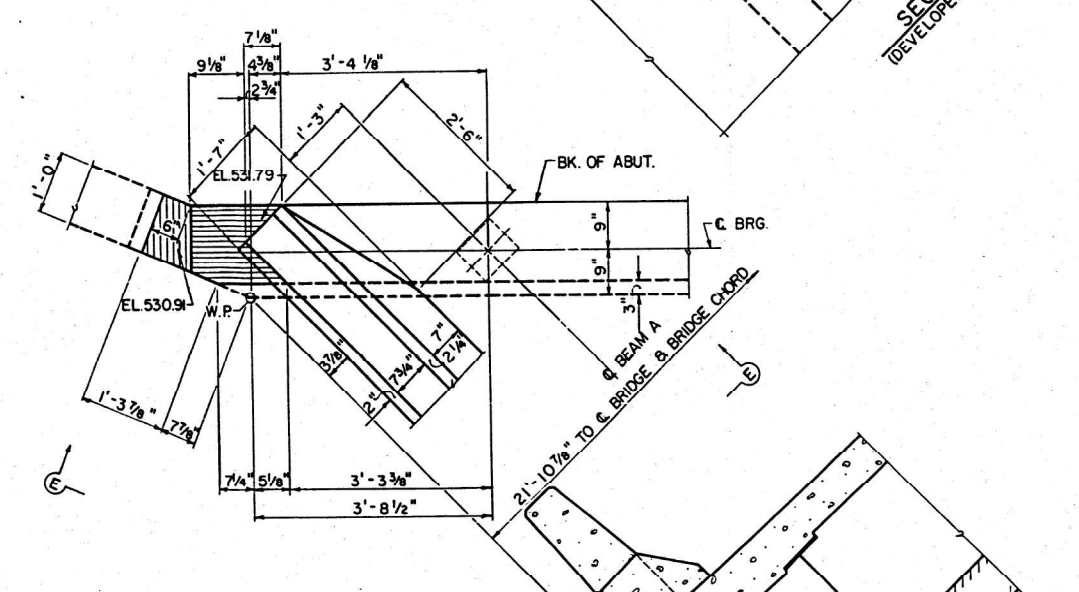
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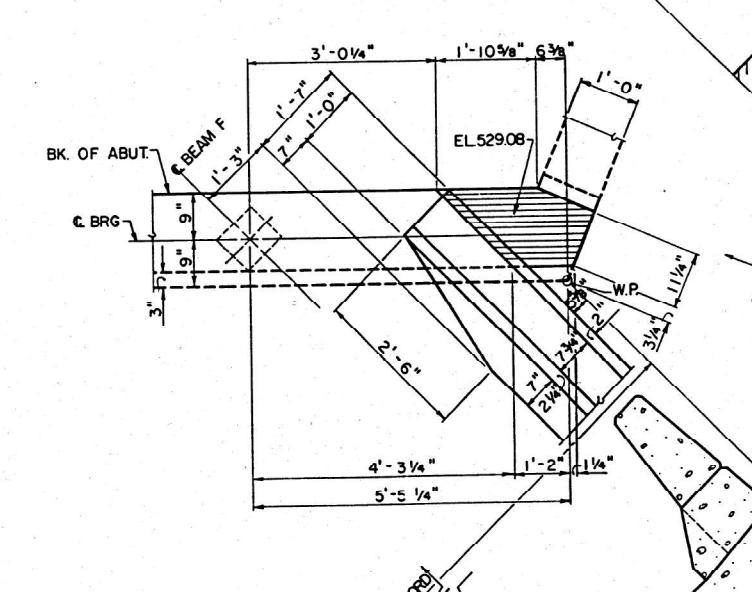
PLAN
(SO END WEST ABUT.)



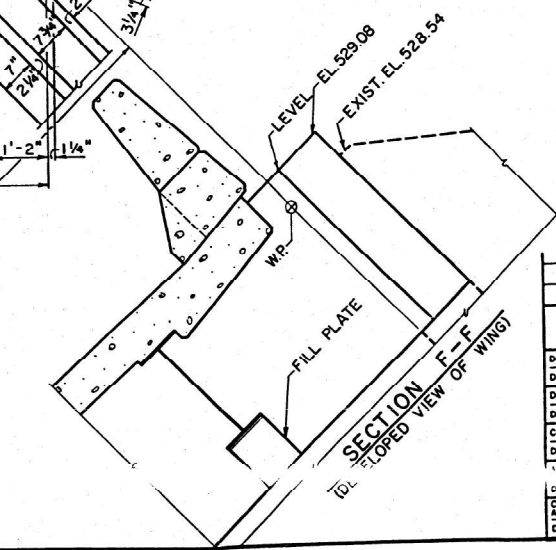
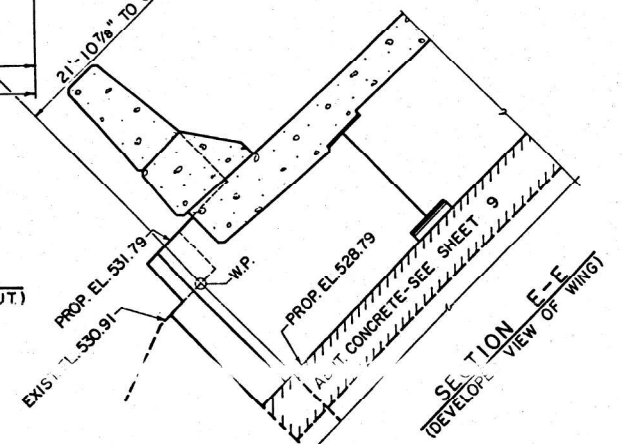
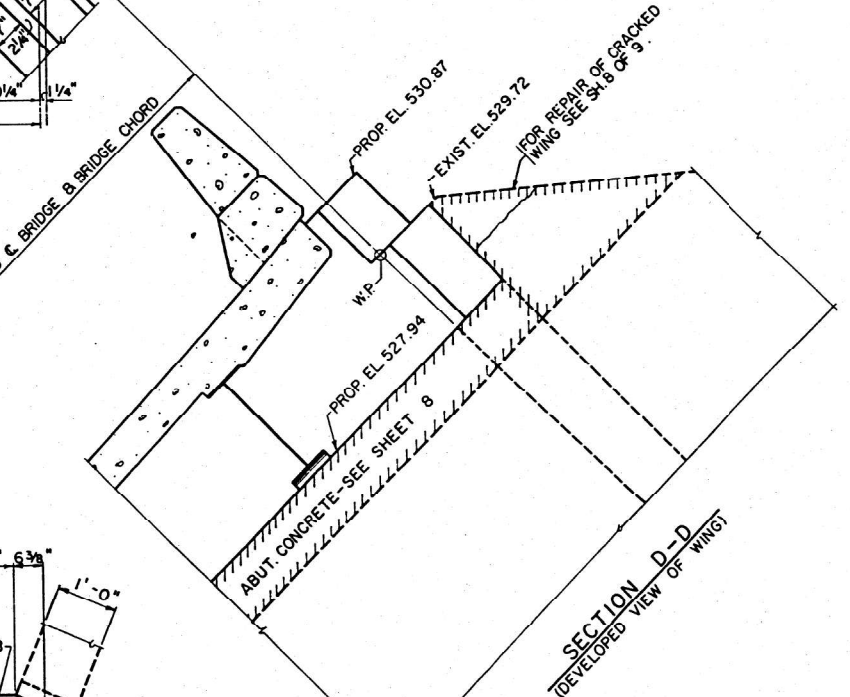
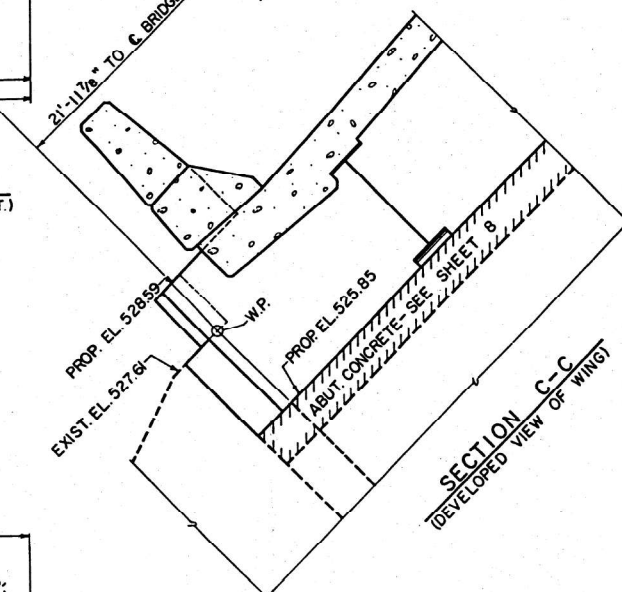
PLAN
(NO. END WEST ABUT.)



PLAN
(NO. END EAST ABUT.)



PLAN
(SO. END EAST ABUT.)



NOTE: CONTRACTOR TO VERIFY EXISTING DIMENSIONS.
SEE SHEETS 8 AND 9 FOR DETAILED DIMENSIONS AND ARRANGEMENT AT ABUTMENTS.

REV. NO.	BRIDGE OFFICE REVIEW	JCC12-30-84
REV. NO.	DESCRIPTION	BY DATE APPROVAL
SUPERSTRUCTURE		
Drawn TRC	BRANCH OF HURRICANE CREEK	SCALE NONE
Date 8-22-84	SEC. 9BR-2, F.A. RT. 777	BWC PROJECT NO. 034-8401
Drawn JCC	FAYETTE COUNTY	CLIENT PROJECT NO. P-97-020-82
Date 8-22-84	STA. 911+60	DRAWING NO.
Checked JCC	WESSELINA, COOK & ASSOCIATES, INC.	
Date 8-22-84	ENGINEERS & CONSULTANTS	

8323

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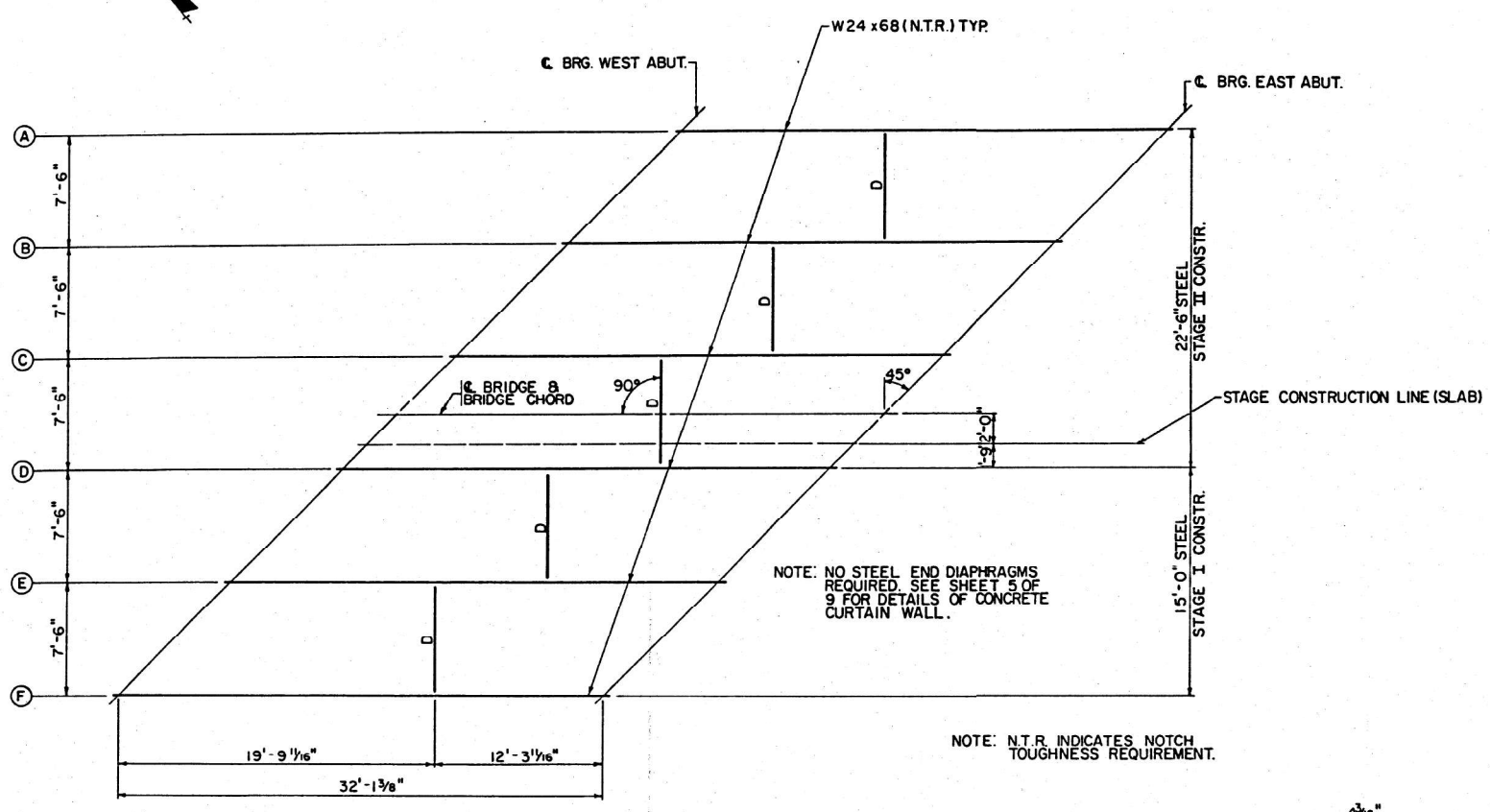
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0051

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	22
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				



INTERIOR BEAM MOMENT TABLE	
	0.5 SPAN I
Is (in ⁴)	1830
Ic (in ⁴)	6368
Ss (in ³)	154
Sc (in ³)	258
Q (k/i)	0.787
M _Q (k')	103.9
S _Q (k/i)	0.320
M _{SQ} (k')	42.3
M _L (k')	207.4
M _{IMP} (k')	62.2
2/3 (M _L +I) (k')	449.3
M _a (k')	719.2
f _s Q NON-COMP. (k.s.i.)	8.1
f _s Q (COMP.) (k.s.i.)	2.0
f _s 2/3 (L+I) (k.s.i.)	20.9
f _s (OVERLOAD) (k.s.i.)	31.0
f _s (TOTAL) (k.s.i.)	40.3
VR (k)	45.4

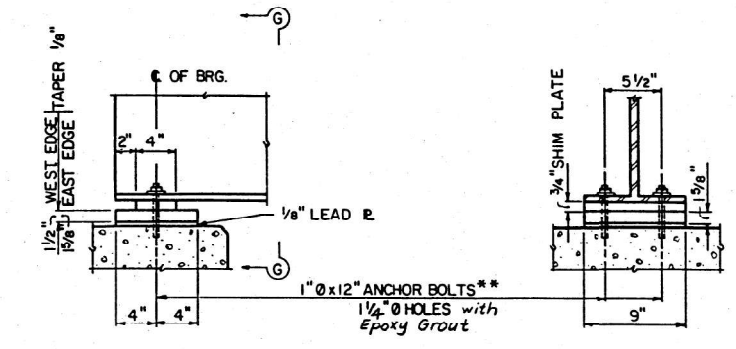
INTERIOR BEAM REACTION TABLE	
	ABUT.
R _Q (k)	17.9
R _L (k)	34.9
IMP (k)	10.5
R TOTAL	63.3

(SEE NOTE A)

TOP OF BEAM ELEVATIONS *		
BEAM	C. BRG. WEST ABUT.	C. BRG. EAST ABUT.
A	530.12	530.96
B	529.67	530.44
C	529.23	529.93
D	528.81	529.44
F	528.03	528.51

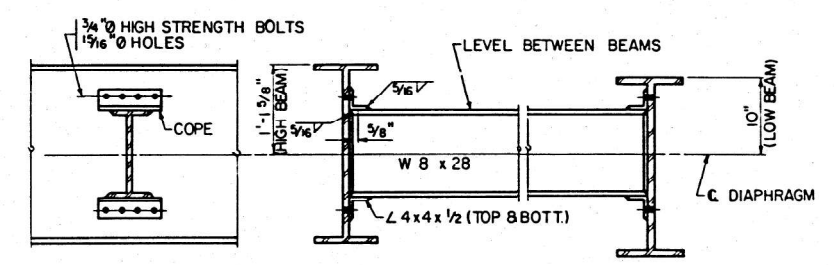
*FOR FABRICATION ONLY

NOTE A: I_s AND S_s ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING f_s (TOTAL & OVERLOAD). I_c AND S_c ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING f_s (TOTAL & OVERLOAD). VR IS THE MAXIMUM L+IMPACT SHEAR RANGE IN SPAN. M_a (APPLIED MOMENT) = 1.3 [M_Q + 2/3 (M_L+I)]. f_s (OVERLOAD) IS THE SUM OF THE STRESSES DUE TO M_Q + 2/3 (M_L+I). f_s (TOTAL) IS THE SUM OF THE STRESSES DUE TO 1.3 [M_Q + 2/3 (M_L+I)].



FIXED BEARINGS
(6 REQ'D AT EA ABUT)

*1" x 1'-6" ANCHOR BOLTS REQUIRED AT BEAMS D, E, & F (EAST ABUT.)



NOTE: HARDENED WASHERS SHALL BE REQUIRED OVER 1 1/16" HOLES.

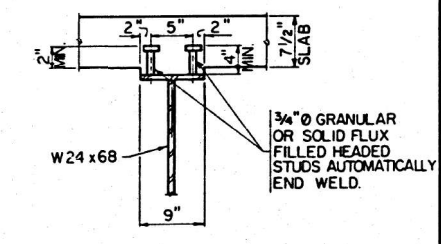
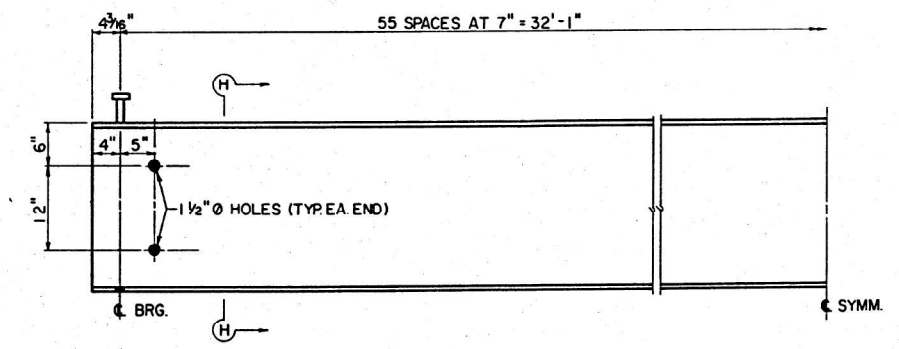


TABLE OF REQUIRED BEARING FILL PLATES

BEAMS	EAST ABUT.
D	5 9/8" x 8" x 9"
E	4 3/8" x 8" x 9"
F	3 1/2" x 8" x 9"

REV. NO.	DESCRIPTION	DATE	APPROVAL
1	BRIDGE OFFICE REVIEW	JCC12-30-84	
STRUCTURAL STEEL			
DATE	SCALE	PROJECT NO.	
08/22/84	NONE	034-8401	
FAYETTE COUNTY			
STA. 911+60			
BRIDGE			
BRANCH OF HURRICANE CREEK			
SEC. 9BR-2, F.A. RT. 777			
ENGINEERS & CONSULTANTS			

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0051

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	23
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

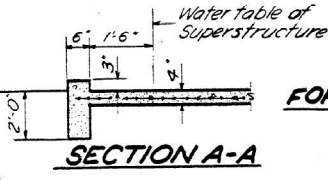
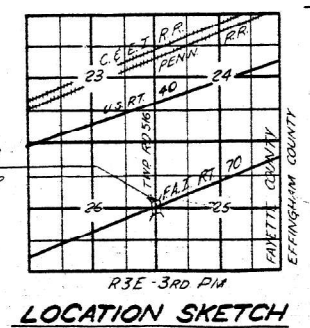
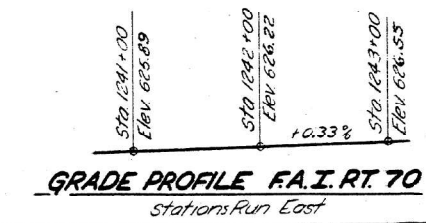
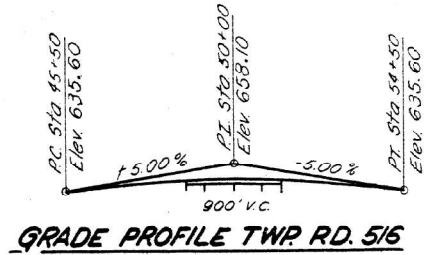
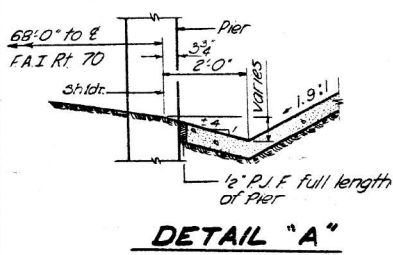
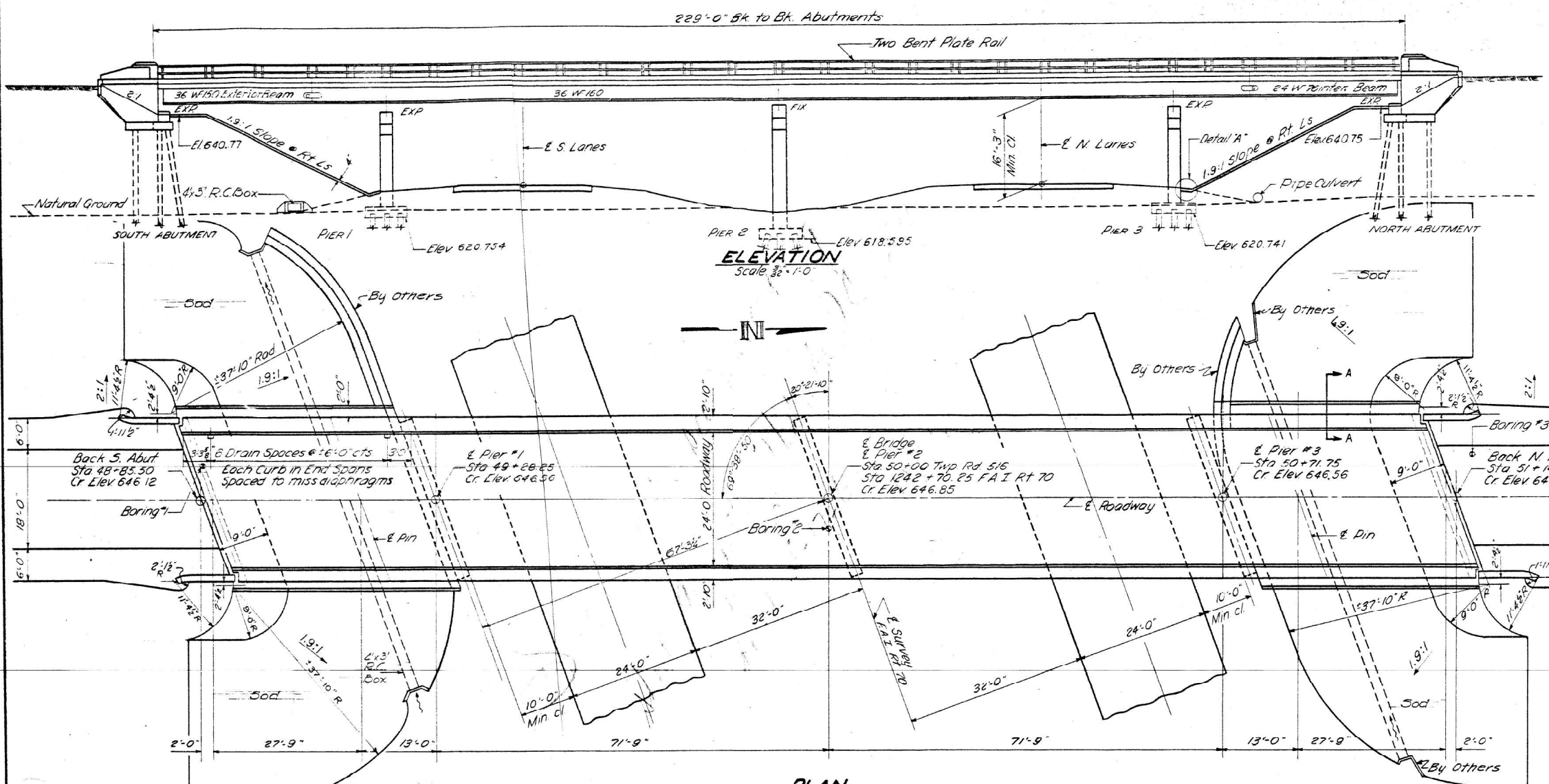
B.M. Top of ROW Marker 247' L1 Sta 1243+00
in East ROW Line of N. E.S. Road Elev 623.71
No Existing Structure

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
FAI RT 70	26-5	FAYETTE	33	10
FED. ROAD BUD. AC.	ILLINOIS	FED. AID PROJECT	1-70-3(52)78	

GENERAL NOTES

Class X Concrete shall be used throughout except in the end posts.
Handrail Concrete shall be used in the end posts.
The Concrete Floor Slab shall be poured in one continuous operation between longitudinal construction joints and shall be finished in accordance with Article 51.19 of the Standard Specifications.
The curb and slab outside of the longitudinal bonded construction joint shall be poured monolithically.
All Rockers, Bolsters, Bearing Plates, Lead Plates and Anchor Bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in the Total Bill of Material as Structural Steel. Estimated Weight 7110 Lbs.
All rivets shall be 3/4" unless noted.
Conc. Piles at abutments shall be driven in holes precored to natural ground line in accordance with Art. 609(c) of Std. Specifications.
Anchor Bolts shall be set before riveting diaphragms over abutments and piers.
Metal Handrail and Structural Steel except the anchor bolts shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.3 inclusive of the Standard Specifications.
All paint shall be furnished and applied by the Contractor.
All Structural Steel and Metal Handrail shall be inspected by the Illinois Division of Highway before painting.
Expansion Guards shall be fabricated and erected in accordance with Article 51.18(d) of the Standard Specifications and are included in the quantity of Structural Steel. Estimated Weight: 650 Lbs.
Welding shall comply with Article 54.5 (s) of the Standard Specifications.
The slope wall is to be reinforced with #4 gauge welded wire fabric 6'x6' mesh and weighing 58# per 100 sq. ft.
The Contractor shall drive one Concrete test pile in a permanent location at the No. Abut. and one timber pile near the vicinity of Pier 2 before ordering remainder of the Piles.



STATION 1242 + 70.25
BUILT 19 BY
STATE OF ILLINOIS
FAI RT. 70 SEC 26-5HB-3
FA. PROJ 1-70-3(52)
LOADING H15-S12

**FOR NAME PLATE LETTERING
SEE STD. 2113**

DESIGN STRESSSES

f_c = 1400 p.s.i. Super & Sub.
f_t = 75 p.s.i. Footing
f_s = 20,000 p.s.i. Reinforcement
f_s = 18,000 p.s.i. Structure
n = 10

LOADING H15-S12-44

DESIGNED	T. Tomaka	EXAMINED	M. Bauman	DATE	OCT 13 1960
CHECKED	A. Wood	PASSED	J. Smith		
DRAWN	J. Putnam	APPROVED	A.R. Bartholomew		
CHECKED	Abraham D. Wolf				

TOTAL BILL OF MATERIAL

Item	Unit	Superstr	Substr	Total
Class X Concrete	Cu Yds	193.1	201.4	394.5
Reinforcement Bars	Lbs.	28,560	15,220	44,780
Handrail Concrete	Cu Yds	2.9		2.9
Metal Handrail	Lin Ft	454		454
Structural Steel	Lbs	198,000		198,000
Name Plates	Each		2	2
Slope Wall	Sq Yds		325	325
Class A Excavation for Str	Cu Yds		100	100
Creosoted Piles	Lin Ft		510	510
Concrete Piles	Lin Ft		465	465
Test Piles (Concrete)	Each		one	one
Test Piles (Timber)	Each		one	one

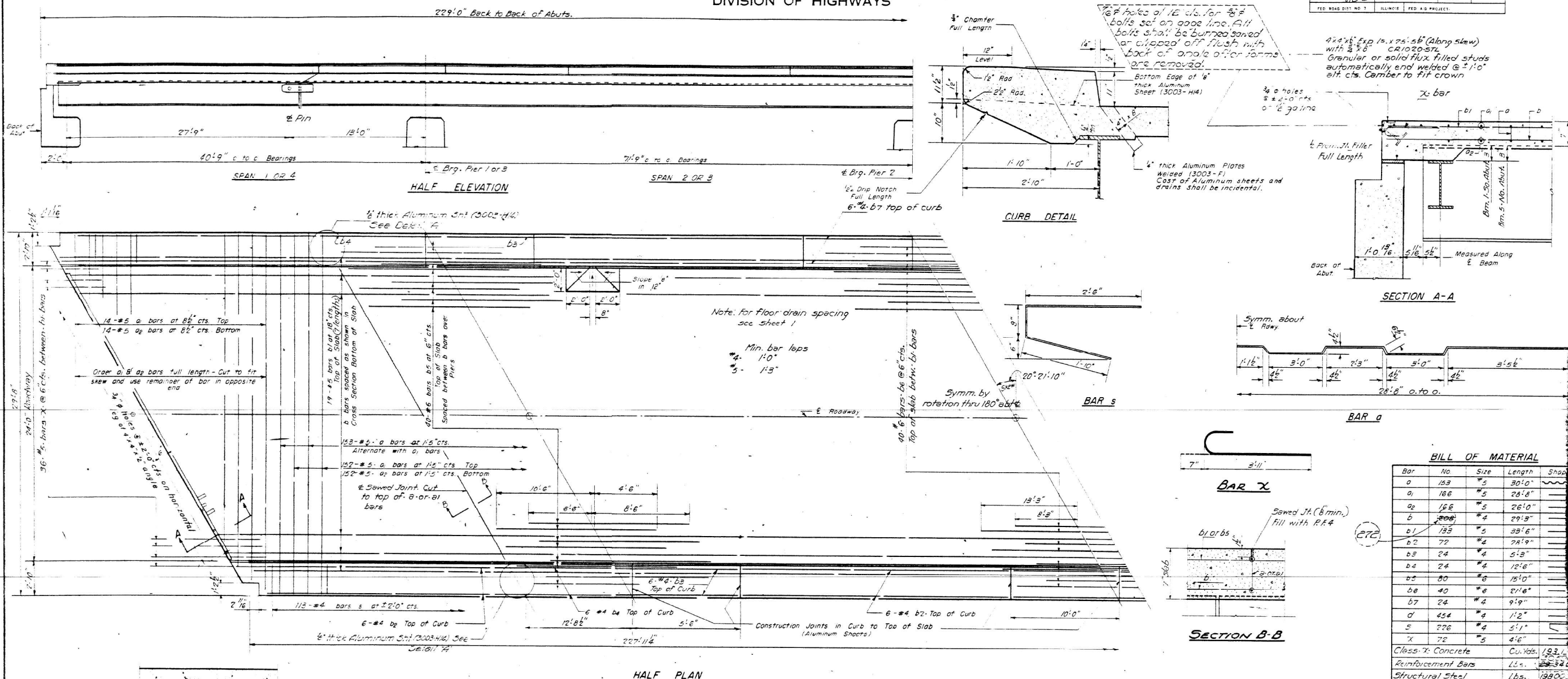
* Cut-off walls included in quantity of slope wall.

GENERAL PLAN & ELEVATION
PROJECT 1-70-3(52)78
F.A.I. RT. 70 SEC 26-5HB-3
FAYETTE COUNTY
STATION 1242 + 70.25

Revised: 5/9/61 In ELEVATION removed notation "Embankment" + 4400 Cu Yds and "Borrow Exc. 5880 Cu Yds" + definition lines of all brackets from each Abut. Location Changed of Sod at Pipe Culvert to 4.5" R.C. Box. In PLAN changed Pipe Culvert to 4.5" R.C. Box (see above) + showed definition lines of Sod at each end and added "By Others" in General Note. Applied note for Piles. In Bill of Material removed the following items: "Borrow Excavation", Pipe Culvert type 2'-20" and Class X Conc. - 10,000 Lbs. Quantities of Reinf. Bars changed from 15,220 Lbs. (Substr) & from 44,900 to 44,780 Lbs. (Total). In PLAN removed the following items: "Borrow Excavation", "Pipe Culvert" and "Class X Conc." + added "By Others" in General Note.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	26-5 48-3	FAYETTE	33	11
SHEET NO. 2 10 SHEETS				

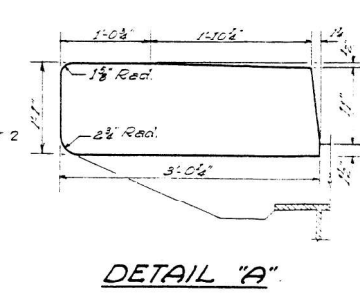
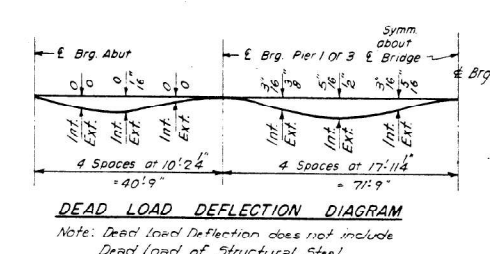
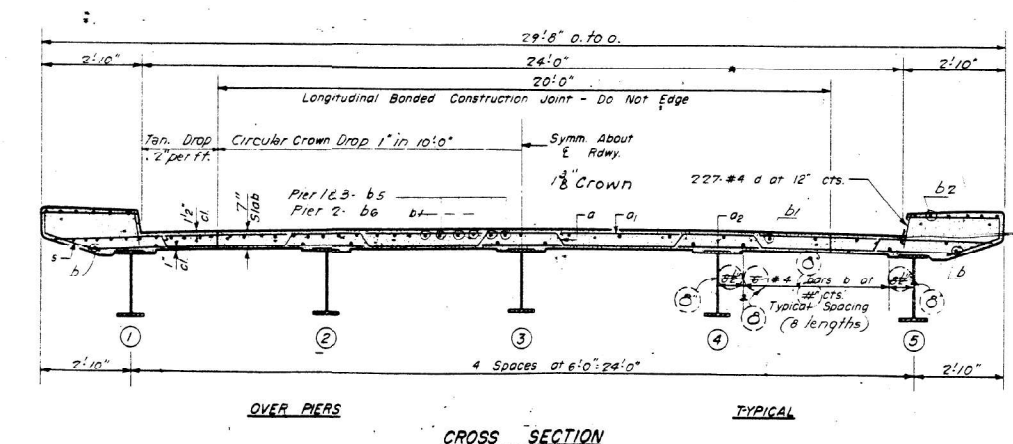


Note: For floor drain spacing see sheet 1
Min. bar laps
#2 - 1'-0"
#3 - 1'-3"

BILL OF MATERIAL

Bar	No.	Size	Length	Shap
a	153	#5	30'-0"	
a1	166	#5	28'-8"	
a2	166	#5	26'-0"	
b	208	#4	29'-9"	
b1	133	#5	33'-6"	
b2	72	#4	28'-9"	
b3	24	#4	5'-3"	
b4	24	#4	12'-6"	
b5	80	#6	15'-0"	
b6	40	#6	21'-6"	
b7	24	#4	9'-9"	
d	454	#4	1'-2"	
e	226	#4	5'-1"	
x	72	#5	4'-6"	
Class: X Concrete		Cu. Yds.	193.6	
Reinforcement Bars		Lbs.	23,320	
Structural Steel		Lbs.	19900	

METHOD OF DETERMINING FILLET HEIGHT "h"
After all Structural Steel has been erected elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 Ft. From these elevations subtract the increments of deflections for these points, determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness equals the fillet heights above top of beam.



DESIGN STRESSES
Fs = 18000% Structural Steel
Ft = 20000% Reinforcement
Ft = 14000% Superstructure
Fc = 1400% Substructure
n = 10

SUPERSTRUCTURE
F.A.I. Rt. 70-SEC. 26-5HB-3
FAYETTE COUNTY
STATION 1242+70.25

DESIGNED	T. Tanaka	EXAMINED	H. B. Bussard
CHECKED	A. W. H. J.	PASSED	
DRAWN	W. A. Sakomura	APPROVED	P. J. J. J.
CHECKED	A. W. H. J.		

12-30-58
REV. 9-10-58 9-22-58 10-11-58

Revised 5/1/58: In CURB Detail, added 1/2" Min. In PLAN, removed 1/2" wide sawed joint across curb and at same location inserted 1/2" Alum. Sht. At left side of curb added DETAIL 'A'.
Revised 5/1/58: Port of Slab (Dist. in Steel) to 67% D.L.S.

MODEL: Plans - 25 (Sheet)
FILE NAME: c:\pwworking\illinois.gov\stacy.anderson\illinois\pwworking\74D02-shr-1-plan.dwg

USER NAME	= stacy.anderson	DESIGNED	-	REVISED	-
DRAWN	-	REVISIONS	-		
CHECKED	-	REVISIONS	-		
DATE	-	REVISIONS	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0080

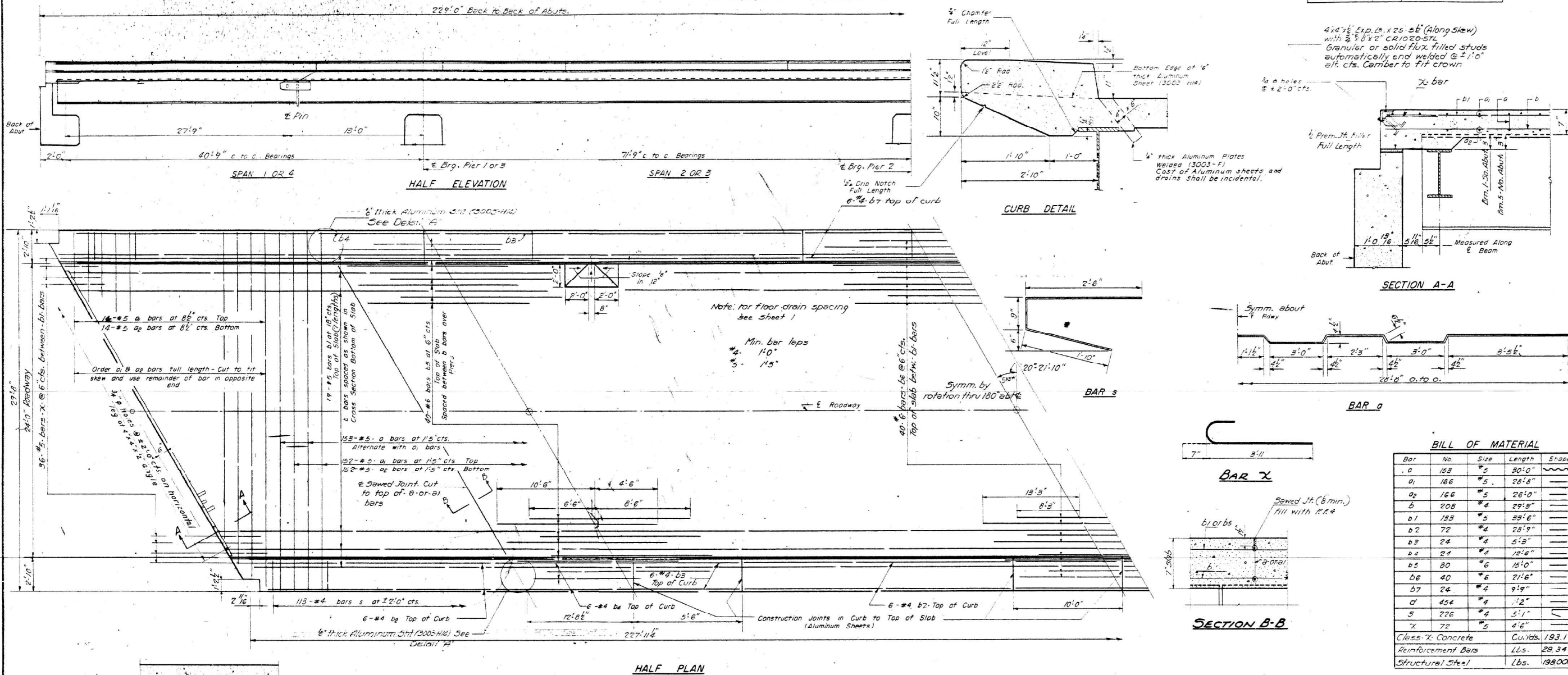
SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	25
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

POSTAL NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74-1-74	26-5	FAYETTE	33	11
F.A.I. RT. 70-SEC. 26-5HB-3		ILLINOIS FED. AID PROJECT		

SHEET NO. 2
10 SHEETS



BILL OF MATERIAL

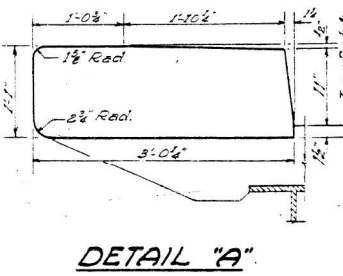
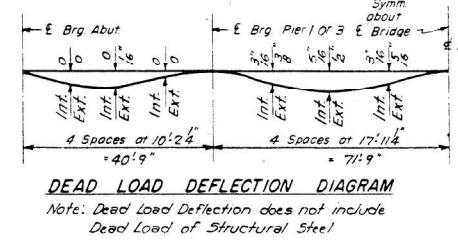
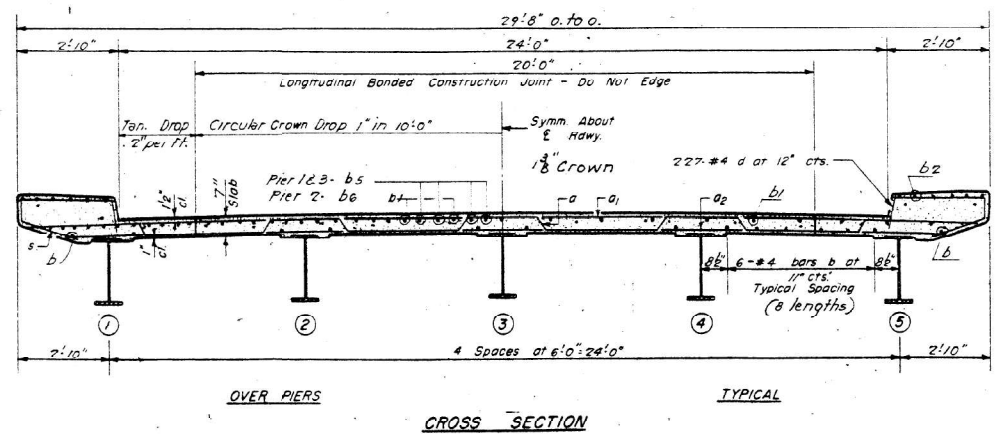
Bar	No.	Size	Length	Shape
a	153	#5	30'0"	
a1	166	#5	28'8"	
a2	166	#5	26'10"	
b	208	#4	29'5"	
b1	153	#5	29'6"	
b2	72	#4	28'9"	
b3	24	#4	5'3"	
b4	24	#4	12'6"	
b5	80	#6	15'0"	
b6	40	#6	21'6"	
b7	24	#4	9'9"	
c	454	#4	1'2"	
s	226	#4	5'1"	
x	72	#5	4'6"	

Class X Concrete Cu. Wt. 193.1
Reinforcement Bars Lbs. 29,340
Structural Steel Lbs. 19,800

METHOD OF DETERMINING FILLET HEIGHT "h"
After all Structural Steel has been erected elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 Ft. From these elevations subtract the increment of deflections at these points, determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness equals the fillet heights above top of beam.

DESIGNED	T. Tanaka	EXAMINED	H. B. Baurman
CHECKED	A. Wood	PASSED	
DRAWN	W. A. Sabomir	APPROVED	R. R. Baurman
CHECKED	A. Wood		

OCT 13 1960



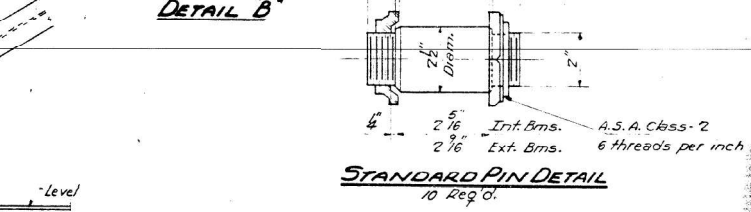
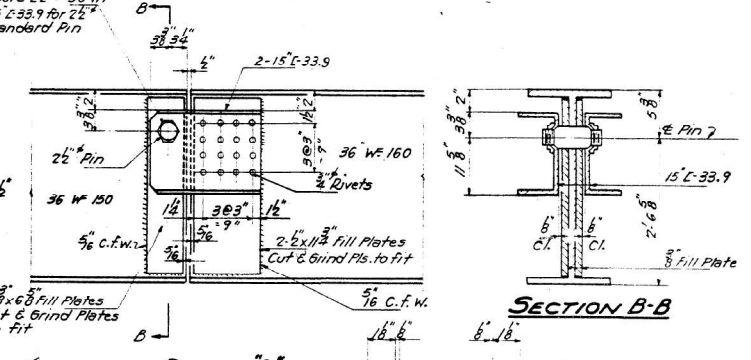
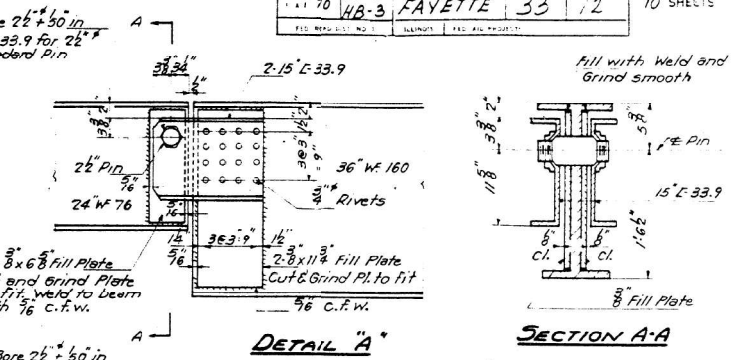
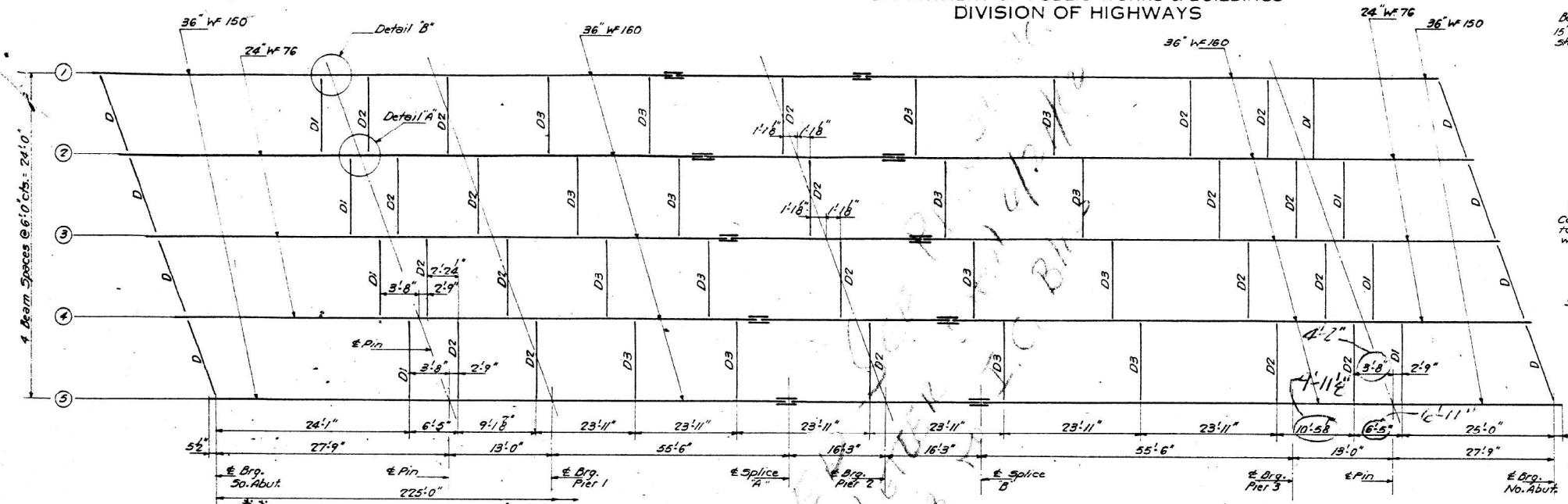
DESIGN STRESSES
fs = 18000% Structural Steel
fs = 20000% Reinforcement
fc = 1400% Superstructure
fc = 1400% Substructure
n = 10

SUPERSTRUCTURE
F.A.I. RT. 70-SEC. 26-5HB-3
FAYETTE COUNTY
STATION 1242+70.25

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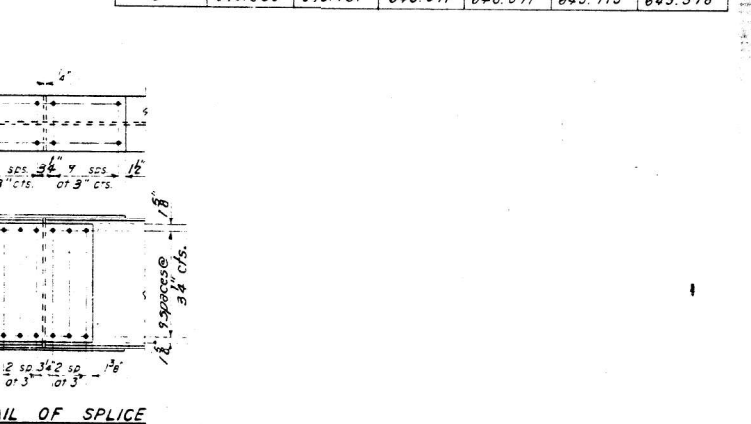
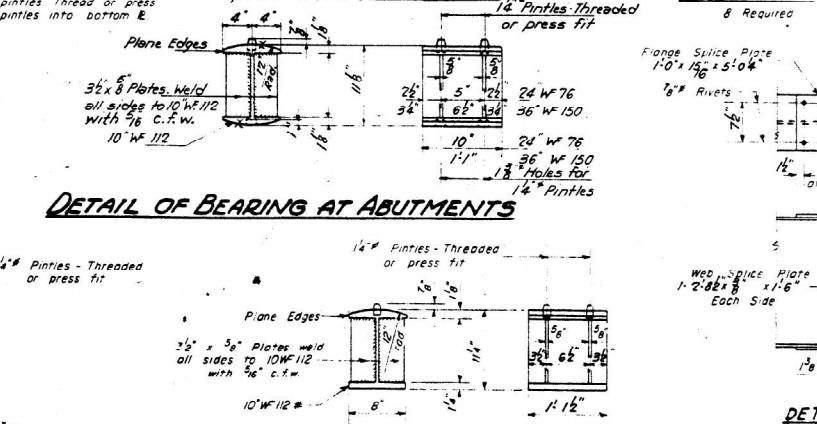
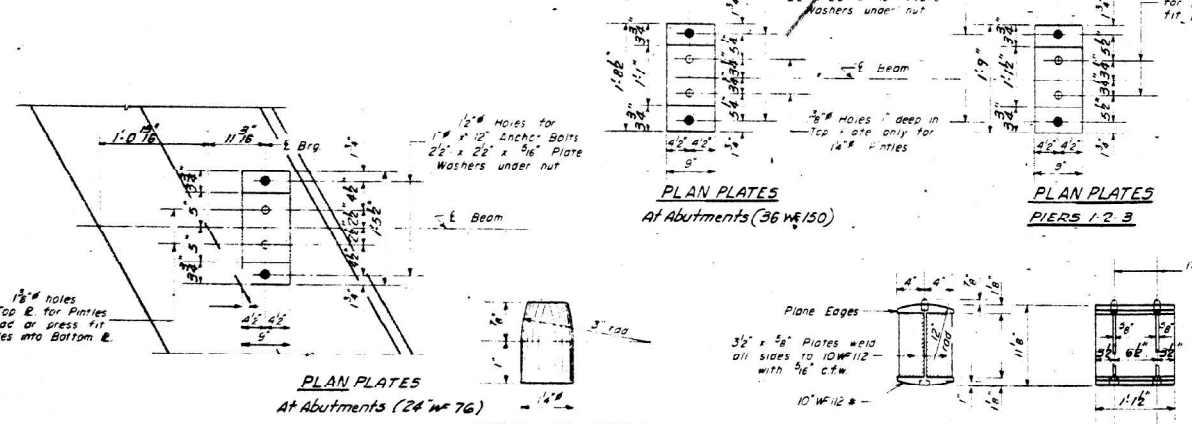
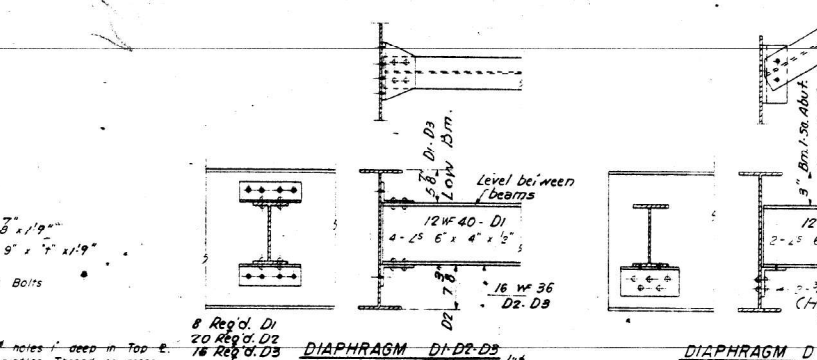
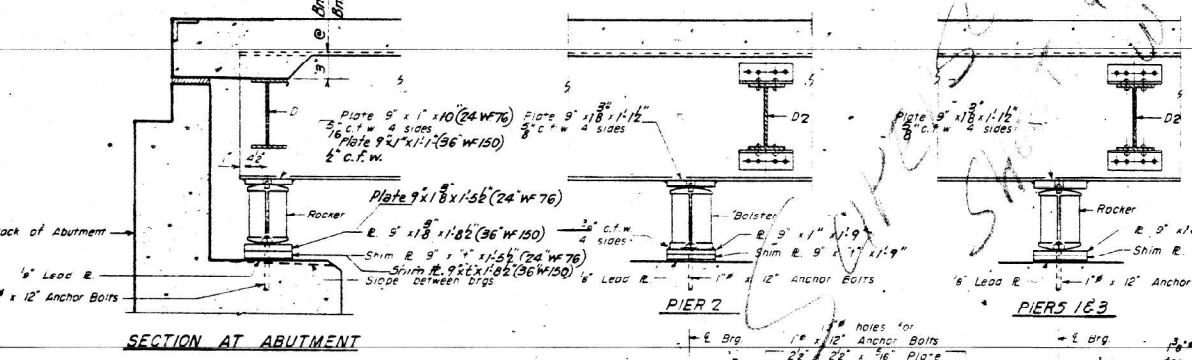
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18-30-58
REV. 9-10-58 9-22-58 10-11-58
Revised 2/4/61 In CURB DETAIL, added 1/2" Min. In PLAN, removed 1/2" wide sawed joint across curbs and at same location inserted 1/2" Alum. Sht. At left side of pier added DETAIL 'A'.
J.L.K.

USER NAME = stacy.anderson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS 026-0080	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
	DRAWN -	REVISED -			VAR D7 BRIDGE PAINTING 2025-2 VAR 31 26
	CHECKED -	REVISED -			CONTRACT NO. 74D02
PLOT DATE = 8/21/2024	DATE -	REVISED -			ILLINOIS FED. AID PROJECT



ELEVATION TOP OF BEAMS

Beam	Location	Brq. 5. Abut.	Pin	Splice A	Splice B	Pin	Brq. N. Abut.
1	645.395	645.731	646.071	646.071	645.715	645.378	
2	645.483	645.819	646.159	646.159	645.838	645.467	
3	645.518	645.855	646.195	646.195	645.838	645.502	
4	645.483	645.819	646.159	646.159	645.803	645.467	
5	645.395	645.731	646.071	646.071	645.715	645.378	



DESIGNED T. Tander
CHECKED A. Wood Jr.
DRAWN W. A. Miller
CHECKED A. Wood Jr.

EXAMINED H. B. Baumann
PASSED
APPROVED

Oct 13 1960

DETAIL OF PINTLE

DETAIL OF BEARINGS AT PIERS 1 & 2

*TABLE OF "s" DIMENSIONS

Beam	Location	Brq. 5. Abut.	Pier 1	Pier 2	Pier 3	Brq. N. Abut.
2 and 4	3/8	3/8	3/8	3/8	3/8	3/8
3	5/8	5/8	5/8	5/8	5/8	5/8

* s Denotes Shim Plate Thickness

STRUCTURAL STEEL DETAILS
F.A.I. R.T. 70-SEC. 26-5 HB-3
FAYETTE COUNTY
STATION 1242+70.25

I-2-R DRAWN 5-11-62

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DRAWN	REVISOR	REVISION
CHECKED	REVISOR	REVISION
PLOT DATE = 8/21/2024	DATE	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0080

SCALE: SHEET OF 27 SHEETS STA. TO STA.

F.A.I. R.T.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	27
CONTRACT NO. 74D02			ILLINOIS FED. AID PROJECT	

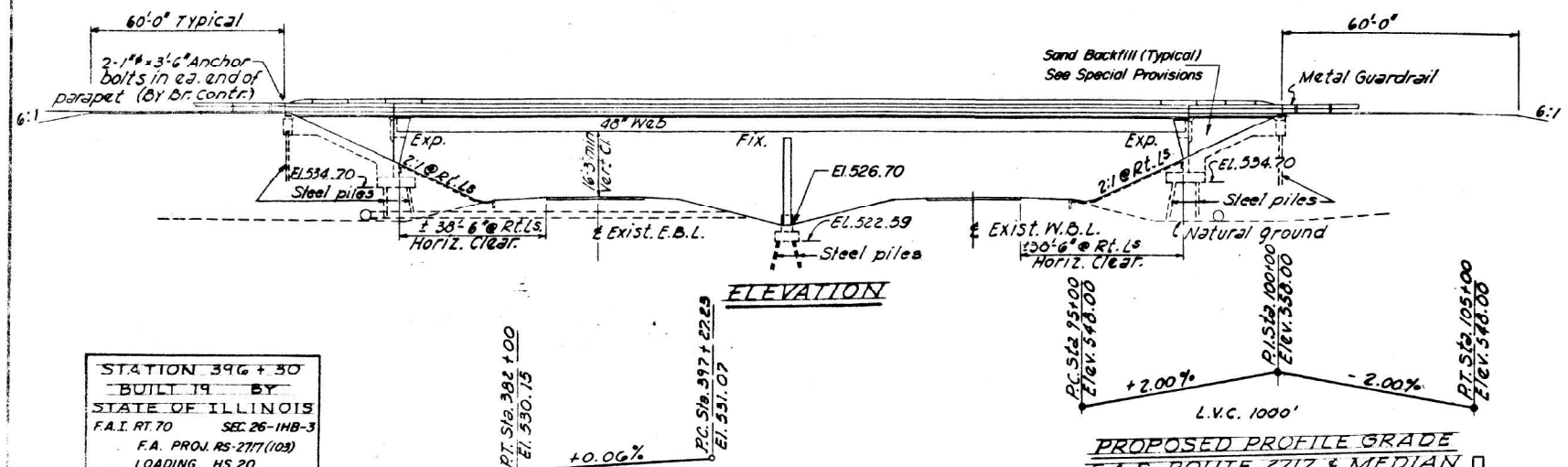
B.M. Permanent survey marker @ F.A.I. Route 70
 PC Sta. 399+14.06 Elev. Stamped 526.16
 No Existing Structure.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
26-1	HB-3	Fayette	45	61
SHEET NO. 1 13 SHEETS				

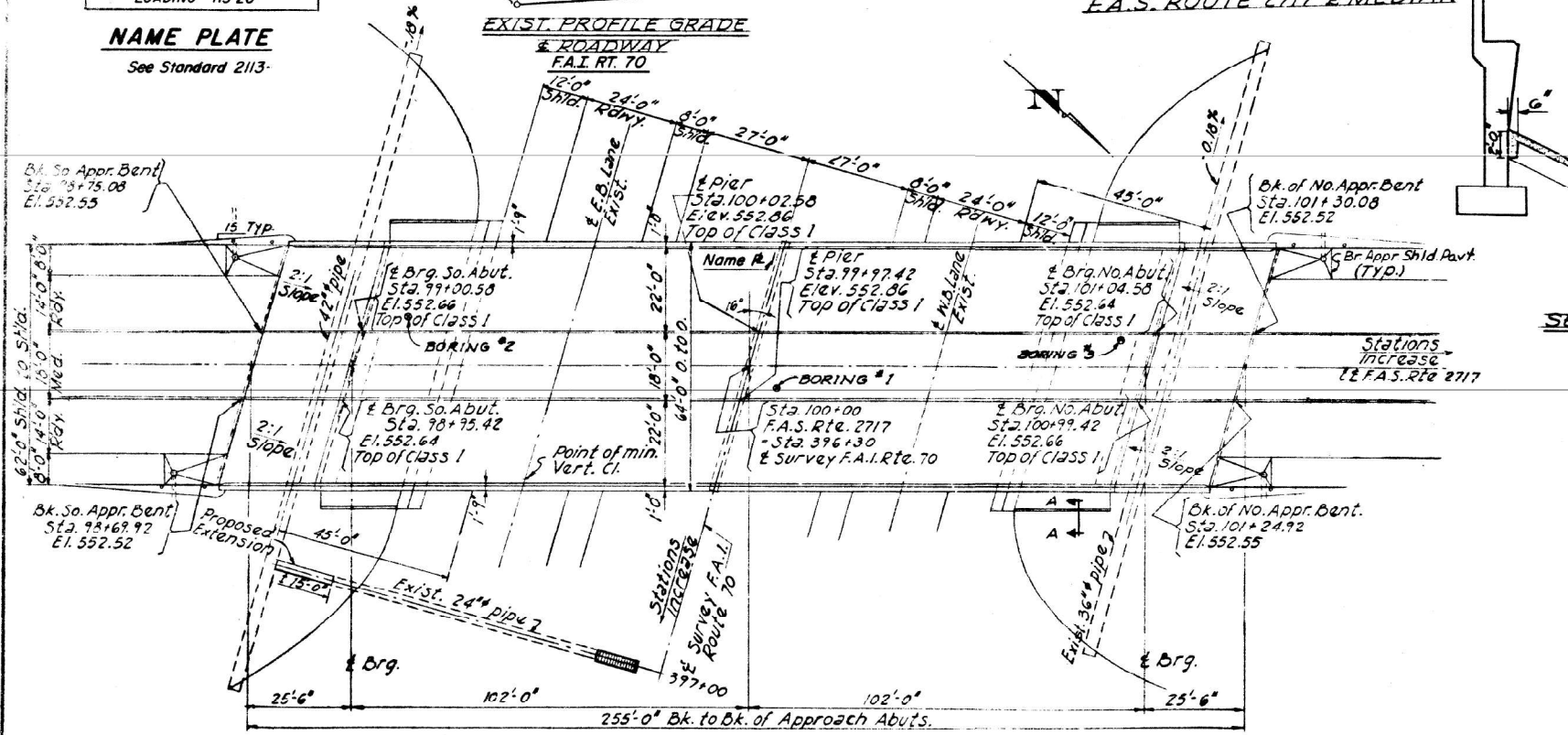
GENERAL NOTES

- All reinforcement bars shall be lapped 24 diameters unless otherwise shown. Fasteners shall be high strength bolts. Bolts 1/2" open holes 1/8" unless otherwise noted.
- Calculated weight of Structural Steel = 380,110 lbs.
- The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.
- Field welding of construction accessories will not be permitted to the bottom flange of girders 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 58# per 100 sq. ft.
- The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the Hanges, webs, and splice plates.
- 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 aggregates shall conform to the requirements of Handrail Concrete.
- Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- Bearing seat 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 inch adjusting shims of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates.
- The Contractor shall drive 3 Steel Test Piles in permanent locations, one at each abutment and one at the pier, as directed by the Engineer before ordering the remainder of piles.
- Reinforcement bars indicated thus: 3x7-#5 etc., indicates 3 lines of bars with 7 lengths per line. Min. bar lap = 24 diameters.
- The bridge embankment shall be in place nine months before paving operations for F.A.S. 2717 begin.



STATION 396 + 30
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RT. 70 SEC. 26-1HB-3
 F.A. PROJ. RS-2717(103)
 LOADING HS 20

NAME PLATE
 See Standard 2113-



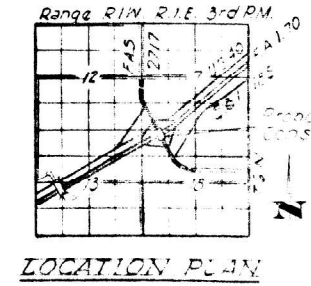
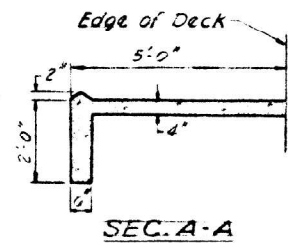
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. yd.		115	115
Class X Concrete	Cu. yd.	564.0	405.5	969.5
Reinforcement Bars	Lbs.	55,130	45,560	100,690
Structural Steel	LS			LS
Deformed Welded Wire Fabric	Lbs.	77,730		77,730
Stud Shear Connectors	Each	2772		2772
Aluminum Railing	Lin. ft.	504		504
Steel Piles - (HP 12 x 53)	Lin. ft.		2952	2952
Test Piles - Steel (HP 8 x 36)	Each		2	2
Slope Wall (4')	Sq. yd.		590	590
Name Plates	Each		1	1
Bit. Conc. Surface Course Class I	Tons	99		99
Waterproofing Membrane System*	Sq. yd.	1240		1240
Protective Coat	Sq. yd.	695		695
Preformed Joint Sealer (4')	Lin. ft.	134		134
Sand Backfill	Cu. yd.		405	405
Steel Piles (HP 8 x 36)	Lin. ft.		696	696
Test Piles Steel (HP 8 x 36)	Each		1	1

*See Special Provisions

DESIGN STRESSES

fc = 1200 p.s.i. slab fc = 1000 with earth pressure.
 fc = 1400 p.s.i. curb parapet, substr.
 fs = 20,000 p.s.i. Reinf. Structural Steel.
 fs = 24,000 p.s.i. Deformed Welded Wire Fabric
 vc = 75 p.s.i. Footings
 n = 10



F.A. PROJ. RS-2717(103)
 GENERAL PLAN & ELEVATION
 F.A.I. RT. 70 SEC. 26-1HB-3
 F.A.S. RT 2717 OVER F.A.I. RT. 70
 FAYETTE COUNTY
 STATION 396 + 30

DESIGNED: [Signature]
 CHECKED: [Signature]
 DRAWN: J.C.M.
 EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]

**Except as noted on Sheet #5.

Allow for future INVS. 25#/sq. ft.
 LOADING HS 20-44

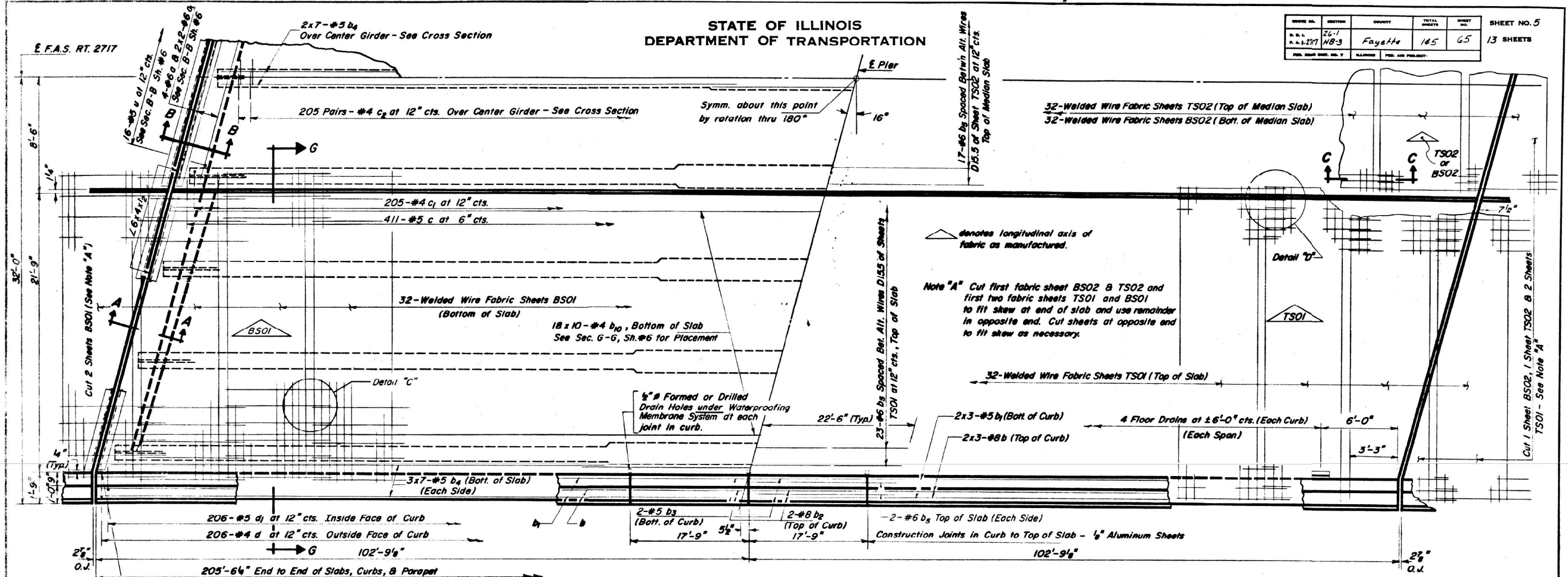
026-0087

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PLOT DATE = 8/21/2024	DRAWN -	REVISED -			VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	28
	CHECKED -	REVISED -							CONTRACT NO. 74D02
	DATE -	REVISED -			SCALE:	SHEET	OF 27 SHEETS	STA.	TO STA.
									ILLINOIS FED. AID PROJECT

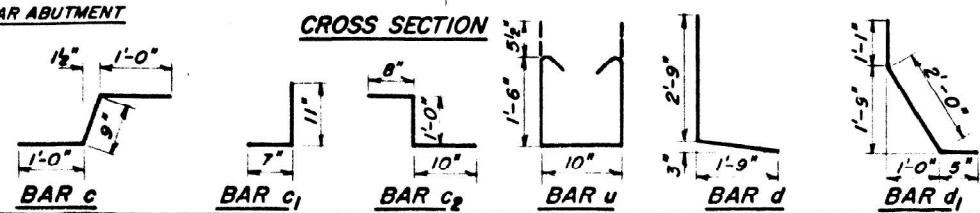
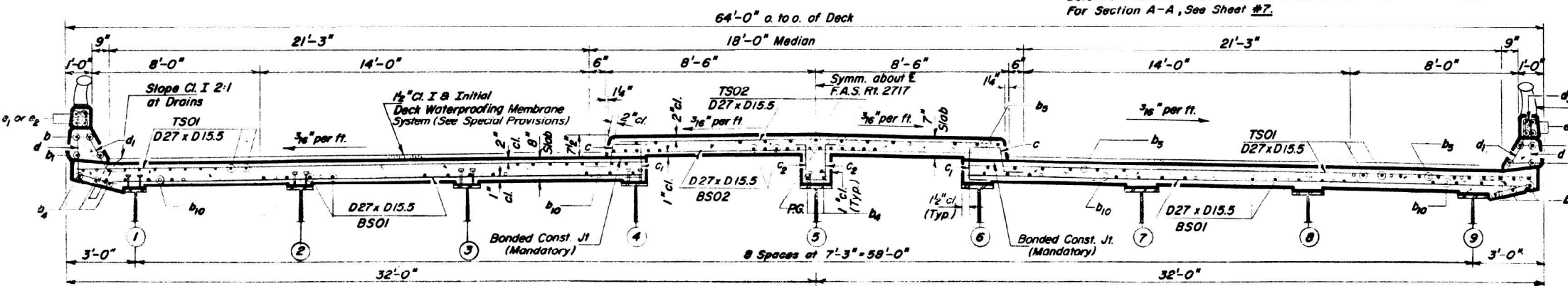
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN NO.	SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.S. RT. 2717	26-1 NB-3	Fayette	145	65	13 SHEETS
ILLINOIS FED. AID PROJECT					



BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
a	8	#6	17'-3"	—
a ₁	8	#6	7'-3"	—
b	24	#8	29'-9"	—
b ₁	24	#5	29'-3"	—
b ₂	8	#8	17'-6"	—
b ₃	8	#5	17'-6"	—
b ₄	56	#5	30'-6"	—
b ₅	67	#6	45'-0"	—
*b ₁₀	360	#4	21'-6"	—
c	822	#5	2'-9"	┌
c ₁	410	#4	1'-6"	┌
c ₂	410	#4	2'-6"	┌
d	412	#4	4'-6"	┌
d ₁	412	#5	3'-6"	┌
u	32	#5	4'-9"	└
Class X Concrete				Cu. Yds. 377.5
Reinforcement Bars				Lbs. 21,290



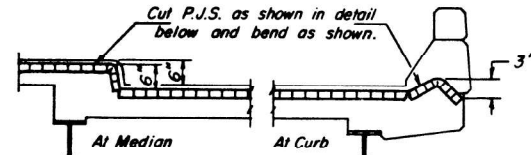
DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

SUPERSTRUCTURE
F.A.I. RT. 70 SEC. 26-1HB-3
FAYETTE COUNTY
STATION 396 + 30

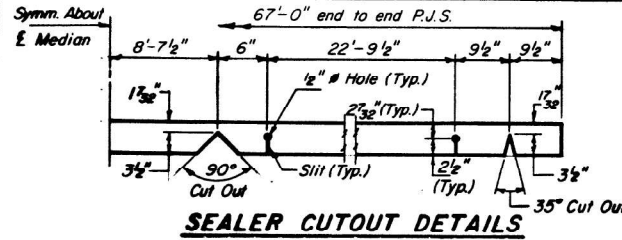
MODEL: Plans - 20 (Sheet) FILE NAME: c:\paw\work\illinois\gov\stacy.anderson\illinois\paw\09892980\0774002-shr-fan.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GROUP NO.	DESIGN	SUBJECT	TOTAL SHEETS	SHEET NO.
14-1	MB-3	Fayette	145	66
SHEET NO. 6 13 SHEETS				



PREFORMED JT. SEALER INSTALLATION DETAILS

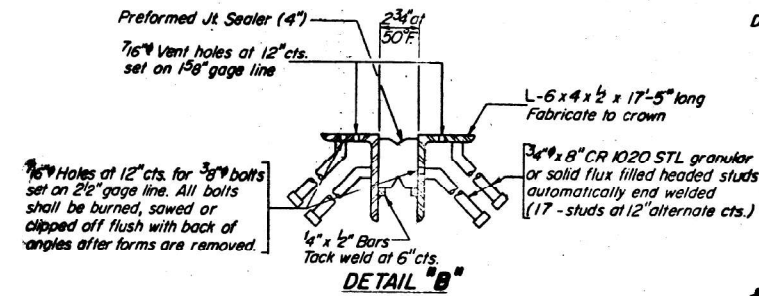


SEALER CUTOUT DETAILS

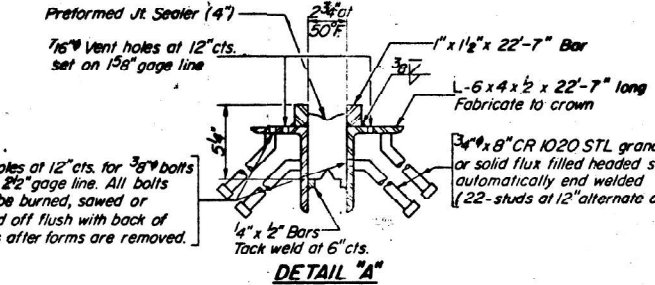


FLOOR DRAIN

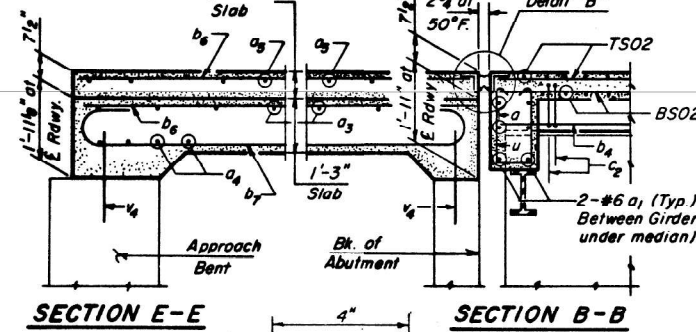
Aluminum Sheets Welded
ASTM B209 alloy 6061-T6
or Aluminum Extrusions
A.S.T.M.:B221 alloy 6061-T6
(Last incidental to Class X Concrete)



DETAIL "B"

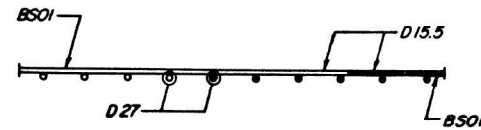


DETAIL "A"

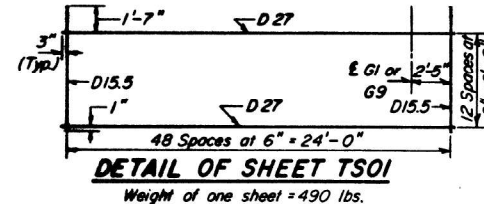


SECTION E-E

SECTION B-B

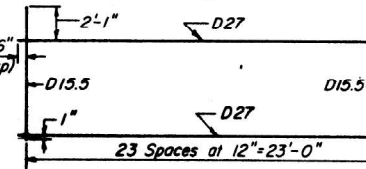


SECTION J-J



DETAIL OF SHEET BS01

Weight of one sheet = 490 lbs.



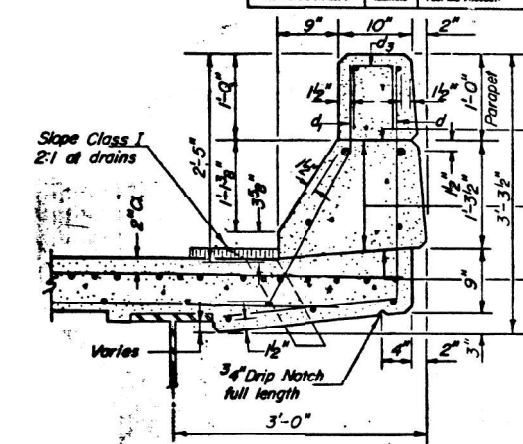
DETAIL OF SHEET BS02

Weight of one sheet = 339 lbs.

BILL OF MATERIAL

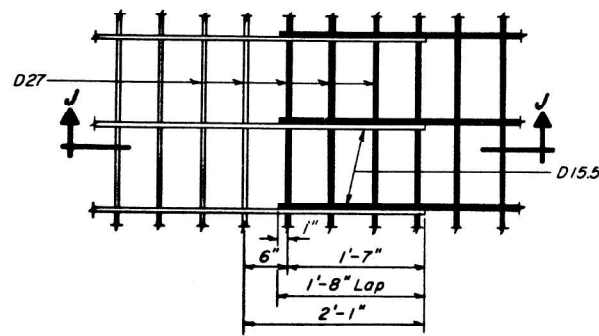
(For Deformed Welded Wire Fabric)

Sheet	No.	Wire Size	Spacing	Width	Length	Overhang
BS01	64	D27 x D15.5	6" x 12"	6'-0" (+1", +25")	24'-0"	6", 6"
BS02	32	D27 x D15.5	6" x 6"	6'-0" (+1", +25")	16'-6"	3", 3"
TS01	64	D27 x D15.5	6" x 6"	6'-0" (+1", +19")	24'-6"	3", 3"
TS02	32	D27 x D15.5	6" x 6"	6'-6" (+1", +19")	16'-6"	3", 3"
Deformed Welded Wire Fabric						Lbs. 77,730

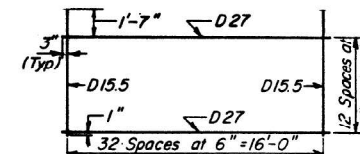


CURB SECTION

Cost of Aluminum Drains and Sheets shall be incidental to Class X Concrete

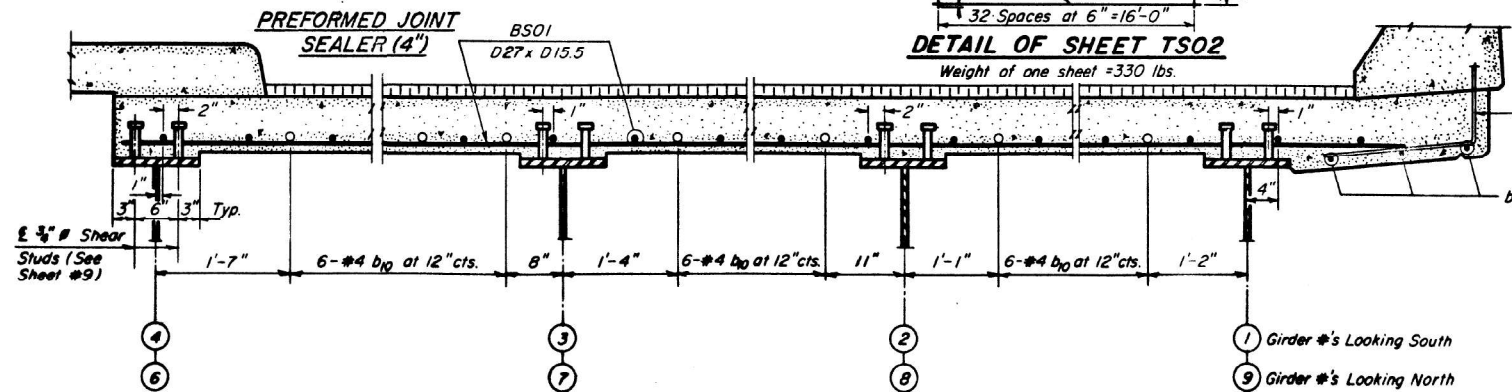


DETAIL "C"



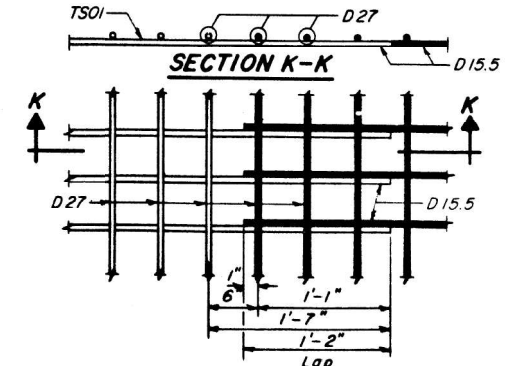
DETAIL OF SHEET TS02

Weight of one sheet = 330 lbs.



SECTION G-G

Showing bottom of roadway slab reinforcement,
B Shear Stud placement over Girders 1-4 & 6-9.



SECTION K-K

DETAIL "D"

SUPERSTRUCTURE DETAILS
E.A.T. RT. 70 SEC. 26-1HB-3
FAYETTE COUNTY
STA. 396+30

DESIGNED	Colin Strong	EXAMINED	12/21/2025
CHECKED	W. H. H.	PASSED	
DRAWN	P. Barnett	APPROVED	
CHECKED	C. H.		

MODEL: Plans - 30 (Sheet)
FILE NAME: c:\p\work\illinois\gov\stacy.anderson@illinois.gov\d0989298\0774D02-shr-ban.dgn

USER NAME	= stacy.anderson
DESIGNED	-
DRAWN	-
CHECKED	-
PLOT DATE	= 8/21/2024

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

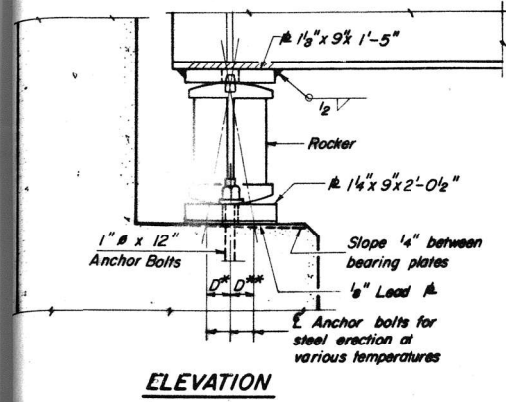
EXISTING STRUCTURE PLANS
026-0087

SCALE: SHEET OF 27 SHEETS STA. TO STA.

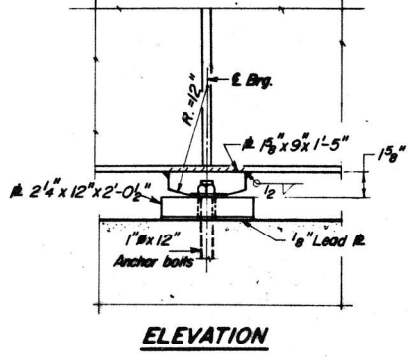
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	30
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

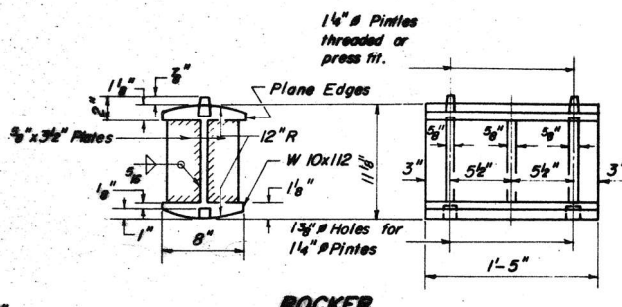
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
26-1	HB-3	Fayette	145	70	13 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



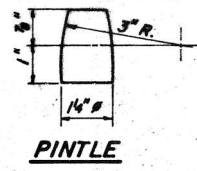
ELEVATION



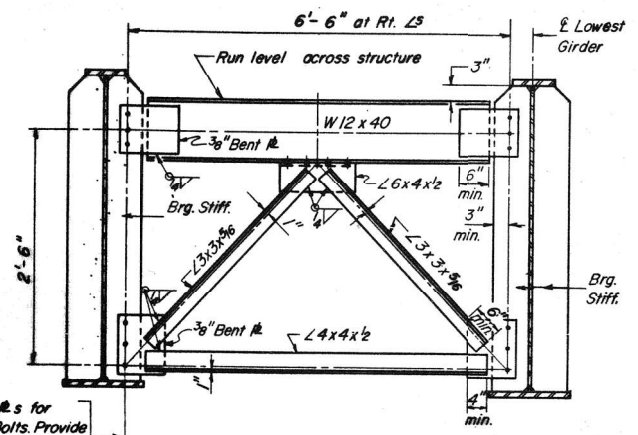
ELEVATION



ROCKER

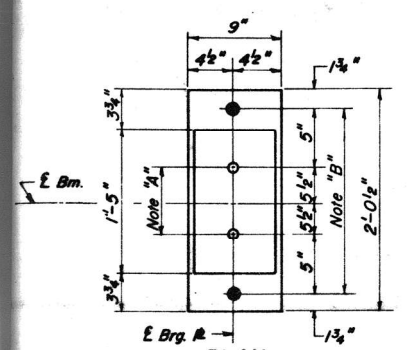


PINTLE



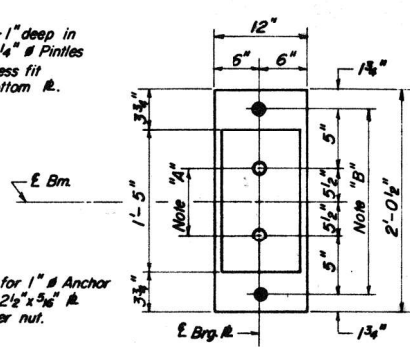
CROSS FRAME CF

No. Required: 16



PLAN AT ABUTMENT

Note "A"
1 1/2 inch Holes - 1 inch deep in top fl. for 1 1/4 inch Pintoles Thread or press fit pintoles in bottom fl.



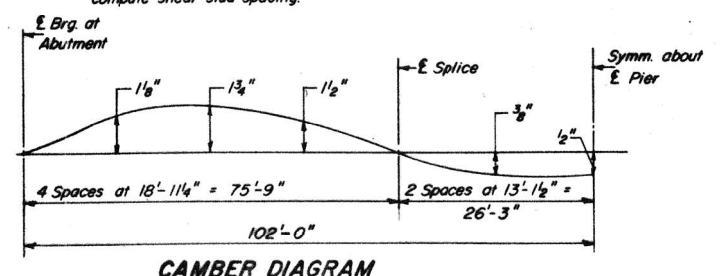
PLAN AT PIER

Note "B"
1 1/2 inch Holes for 1 inch Anchor Bolts - 2 1/2 x 2 1/2 x 3/8 inch Washers under nut.

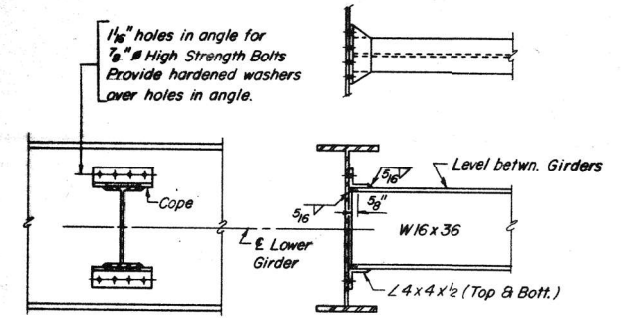
	0.4 Sp.1	Pier
I_s (in ⁴)	17,997	39,273
I_c (in ⁴)	46,892	
S_s (in ³)	608.4	1525.2
S_c (in ³)	1134.7	
\bar{Q} (K/1)	.942	1.06
$M_{\bar{Q}}$ (K)	603.5	1430.7
$f_s \bar{Q}$ (ksi)	9.0	11.2
$s \bar{Q}$ (K/1)	.378	.378
$M_{s \bar{Q}}$ (K)	294.5	443.7
$M_{\bar{Q}} + M_{s \bar{Q}}$ (K)	672.6	553.6
M_{xmp} (K)	148.2	121.7
Total (K)	1115.3	1119.0
$f_s \bar{Q} + M_{xmp}$ (ksi)	11.8	8.8
$f_s \text{ Total}$ (ksi)	20.8	20.0
VR (K)	44.3	

	Abut.	Pier
$R_{\bar{Q}}$ (K)	48.9	171.4
$R_{s \bar{Q}}$ (K)	33.2	54.9
Imp. (K)	7.3	12.1
R Total (K)	89.4	238.4

I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s .
VR is the maximum $\bar{Q} +$ Impact shear range in span, used to compute shear stud spacing.



CAMBER DIAGRAM



DIAPHRAGM D

No. Required: 72

INSTRUCTIONS FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

D^* (Side of brg. away from fixed brg.)
 $D^* = 1/8$ inch per 100' of expansion for every 15° fall below the normal temp. of 50° F.
 D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = 1/8$ inch per 100' of expansion for every 15° rise above the normal temp. of 50° F.

After beams have been erected and dimensions D^* & D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

2-6 3-29-71

NEED: [Signature]
EXAMINED: [Signature] FEB 25 1974
PASSED: [Signature]
APPROVED: [Signature]

BEARING DETAILS
FAI RT 70 SEC. 26-1HB-3
FAYETTE COUNTY
STA. 396+30

MODEL: Default
FILE NAME: c:\pwwork\work\illinois.gov_stacy_anderson\illinois.gov\08982980\74D02-shr-1-plan.dgn

USER NAME = jessica.hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

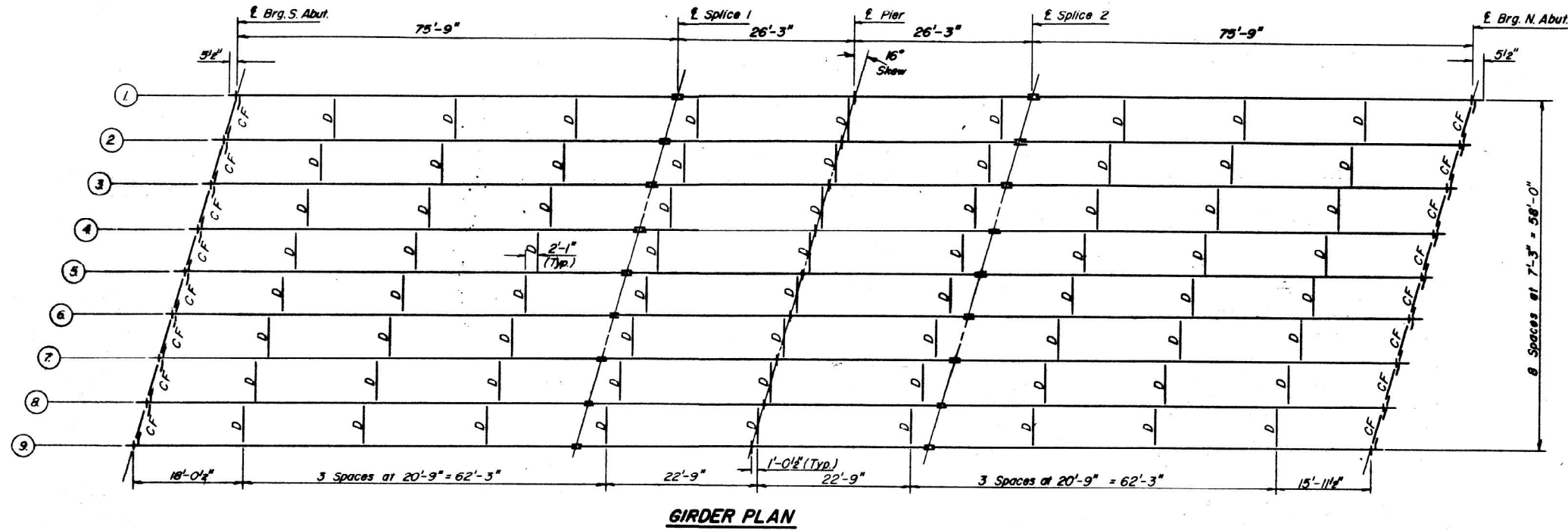
EXISTING STRUCTURE PLANS
026-0087

SCALE: SHEET OF SHEETS STA. TO STA.

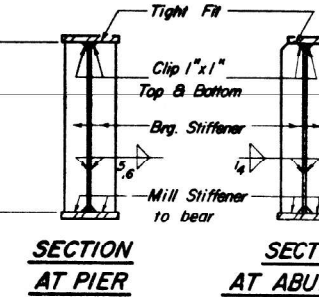
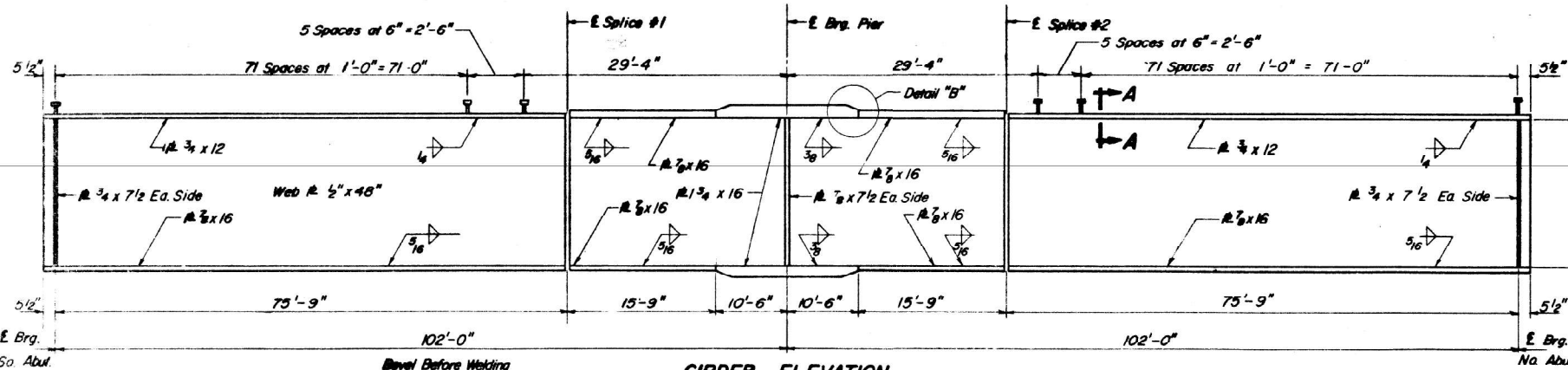
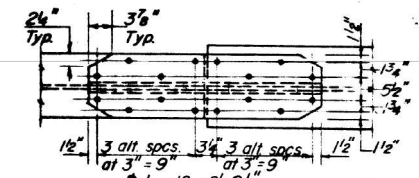
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VARIOUS	31	30A
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

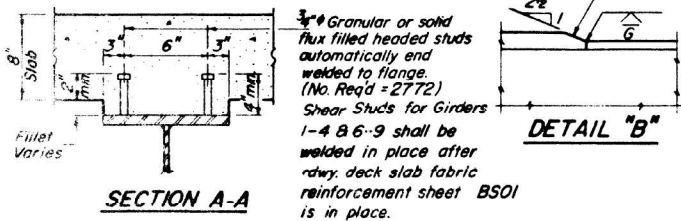
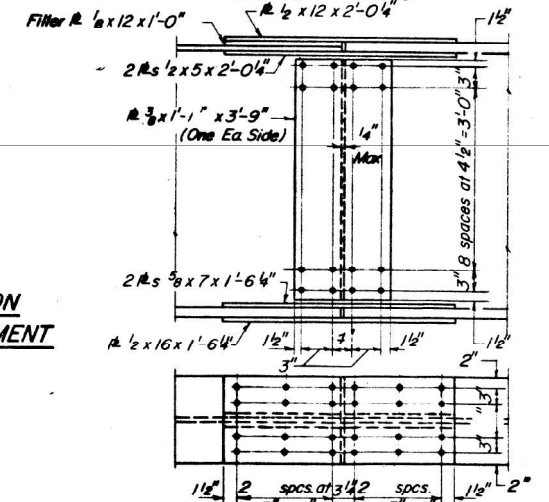
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
26-1	14B-3	Fayette	145	69
SHEET NO. 9				
13 SHEETS				



Clip top & bottom splice & filter plates for top flange splice 2 1/4" x 3 7/8" at corners as shown below.



SECTION AT ABUTMENT



GIRDER ELEVATION

TOP OF WEB ELEVATIONS

Girder No.	1	2	3	4	5	6	7	8	9
E Brg. S.A.	551.48	551.58	551.69	551.79	551.90	551.77	551.65	551.53	551.41
E Splice 1	551.61	551.72	551.84	551.95	552.07	551.95	551.84	551.72	551.61
E Brg. Pier	551.57	551.68	551.80	551.91	552.03	551.91	551.80	551.68	551.57
E Splice 2	551.61	551.72	551.84	551.95	552.07	551.95	551.84	551.72	551.61
E Brg. N.A.	551.41	551.53	551.65	551.77	551.90	551.79	551.69	551.53	551.48

Elevations are for fabrication only.
Elevations at splice have been adjusted for camber.

DESIGNED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>
DRAWN	Craig J. Smith
CHECKED	

EXAMINED	<i>[Signature]</i>
PASSED	<i>[Signature]</i>
APPROVED	<i>[Signature]</i>

STRUCTURAL STEEL
FAI RTE. 70 SEC. 26-14B-3
FAYETTE COUNTY
STA. 396 + 30

MODEL: Plans - 31 (Sheet)
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USER NAME = stacy.anderson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/21/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
026-0087

SCALE: SHEET OF 27 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2025-2	VAR	31	31
CONTRACT NO. 74D02				
ILLINOIS FED. AID PROJECT				