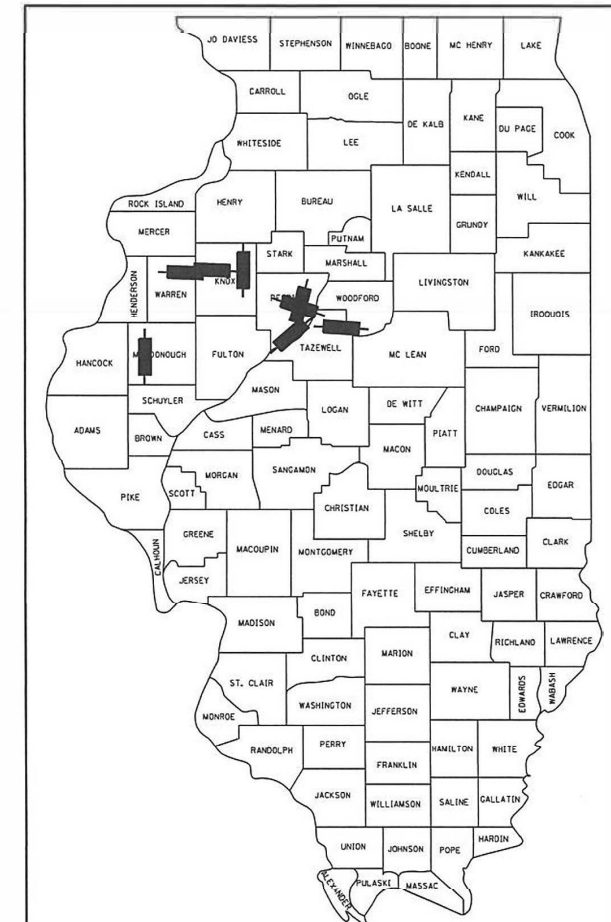


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
 (VAR) ROUTE VARIOUS
 SECTION D4 BRIDGE PAINTING 2024
 FED. PROJECT NO.: STP-QJ4I(014)
 VARIOUS COUNTIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024	*	60	1
ILLINOIS		CONTRACT NO. 68H79		

D-94-056-23

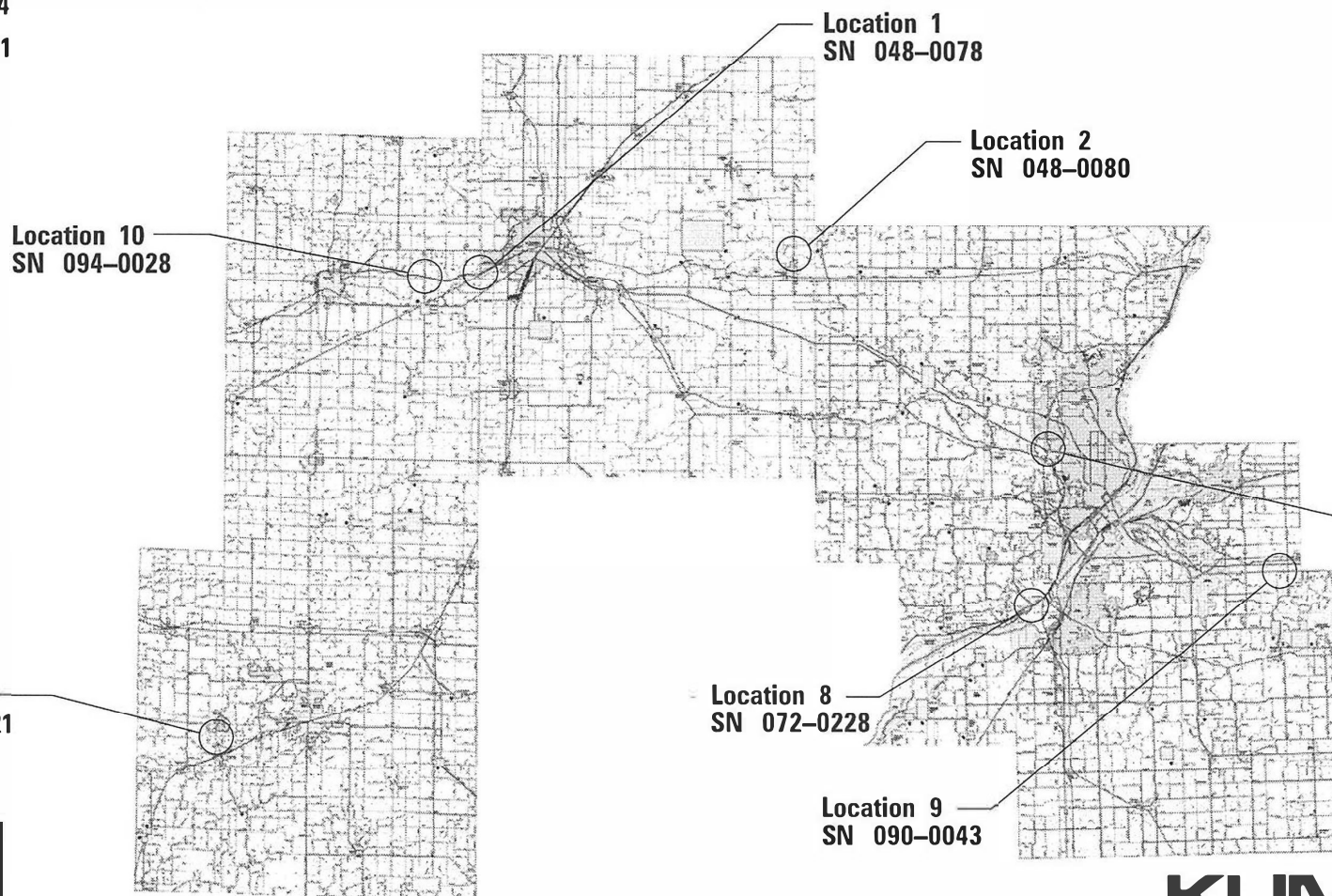


- INDEX OF SHEETS**
- 1 COVER SHEET
 - 2 LOCATION MAP - STRUCTURE LOCATIONS 1, 2, 3, 4, 5, 6, & 7
 - 3 LOCATION MAP - STRUCTURE LOCATIONS 8, 9, & 10
 - 4 GENERAL NOTES
 - 5-7 SUMMARY OF QUANTITIES
 - 8-60 STRUCTURES INFORMATION

HIGHWAY STANDARDS

000001-08	701321-18	701426-09
701001-02	701400-11	701428-01
701006-05	701402-12	701901-08
701101-05	701406-13	704001-08
701106-02	701411-09	780001-05
701301-04	701422-10	781001-04
701311-03	701423-10	782006-01

- ADT**
- Location 1 - 75 (2022)
 - Location 2 - 1,150 (2021)
 - Location 3 - 1,200 (2021)
 - Location 4 - 13,850 (2021)
 - Location 5 - 13,850 (2021)
 - Location 6 - 13,800 (2017)
 - Location 7 - 9,500 (2017)
 - Location 8 - 11,500 (2021)
 - Location 9 - 2,400 (2021)
 - Location 10 - 675 (2021)



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

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

CONTRACT NO. 68H79
 CATALOG NO. 036445-00D

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

KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 www.klingner.com
 Galesburg, Illinois
 49 North Prairie Street 309.342.4042
 Quincy, IL Hannibal, MO
 Burlington, IA Pella, IA Columbia, MO
 Davenport, IA Carbondale, IL
 DESIGN FIRM NO. 184-2738

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

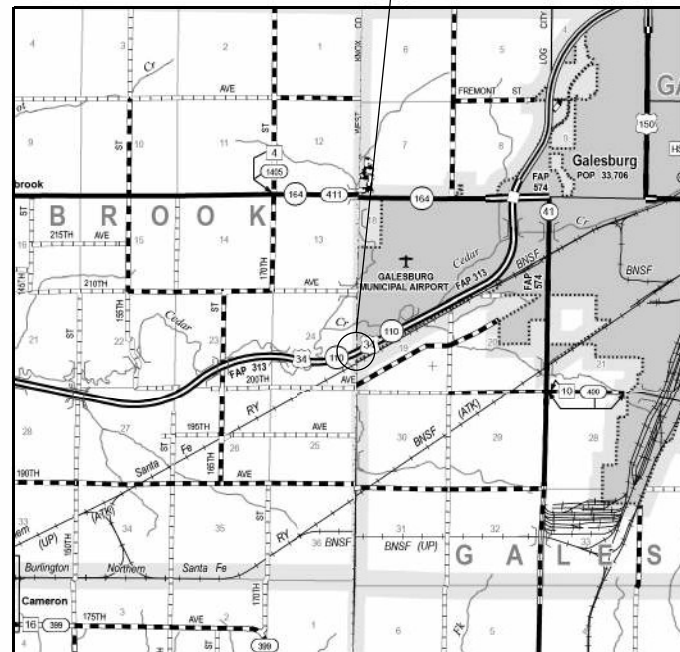
SUBMITTED August 21, 2023
 [Signature] REGIONAL ENGINEER

October 13, 2023 [Signature] ENGINEER OF DESIGN AND ENVIRONMENT

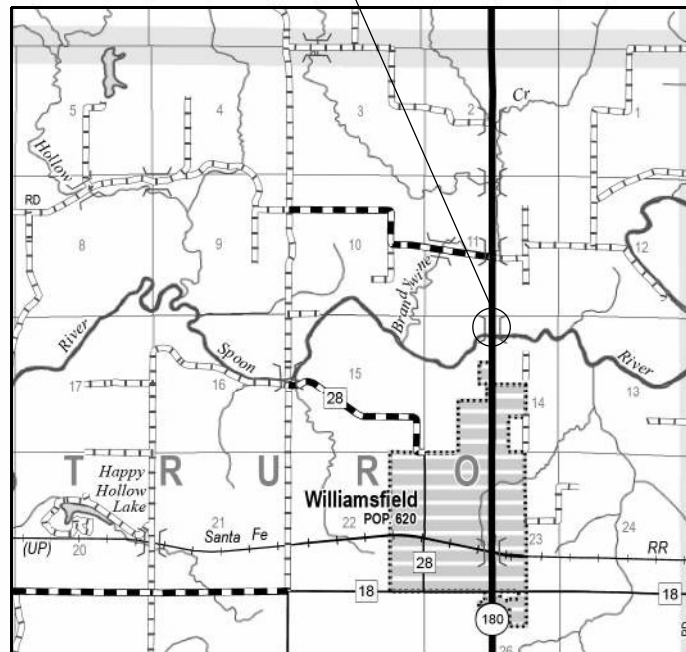
October 13, 2023 [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

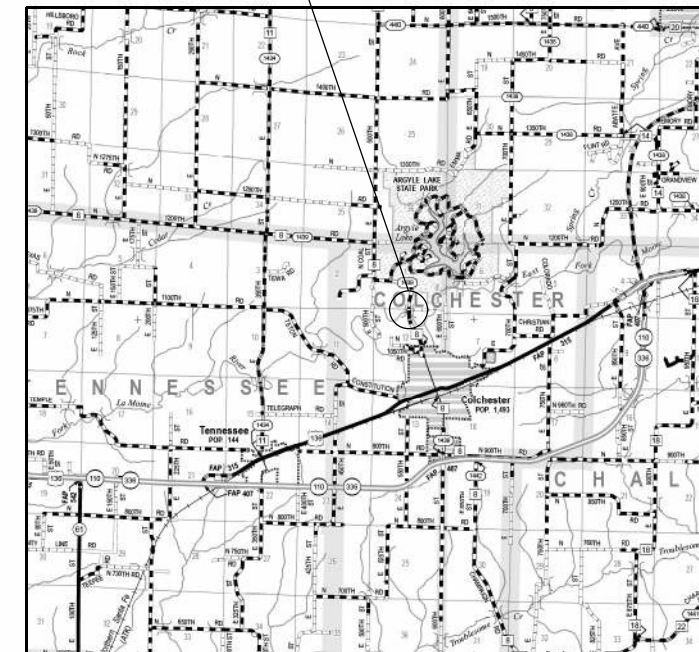
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SN 048-0078
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over US Rte. 34



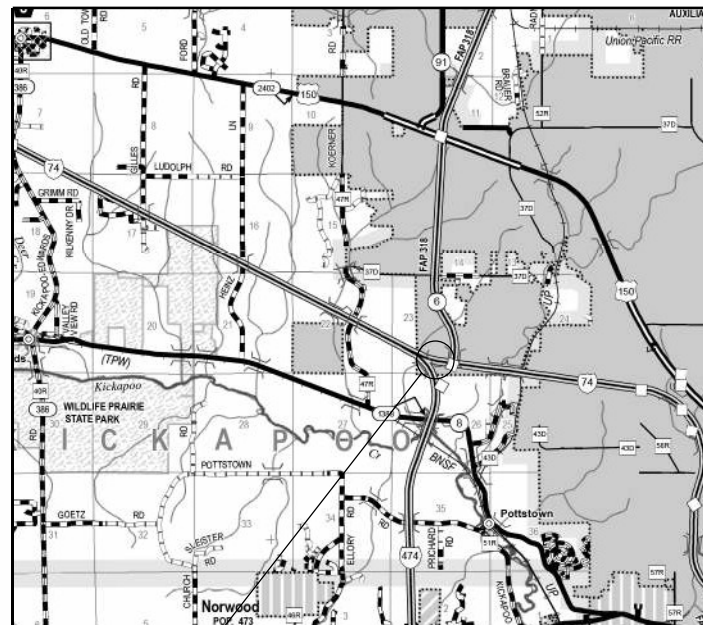
Location 2
SN 048-0080
IL-180
over Spoon River



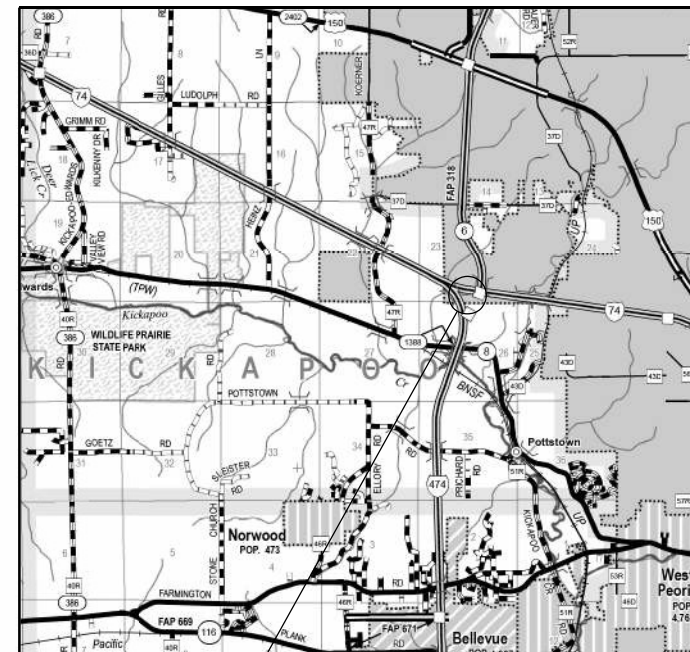
Location 3
SN 055-0021
CH 8 over E. Fork
Lamoine River



Location 4 & 5
SN 072-0106 /072-0107
SB IL-6 over WB I-74
& FAI 474 Ramp 109
over WB I-74



Location 6 & 7
SN 072-0108 /072-0109
FAI 474 Ramp 1.18
over EB I-74
& FAI 474 Ramp #109
over EB I-74



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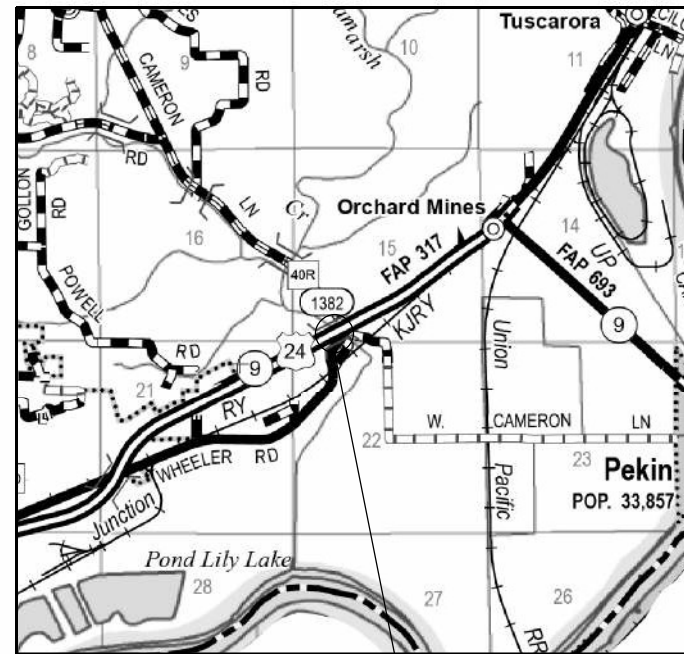
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

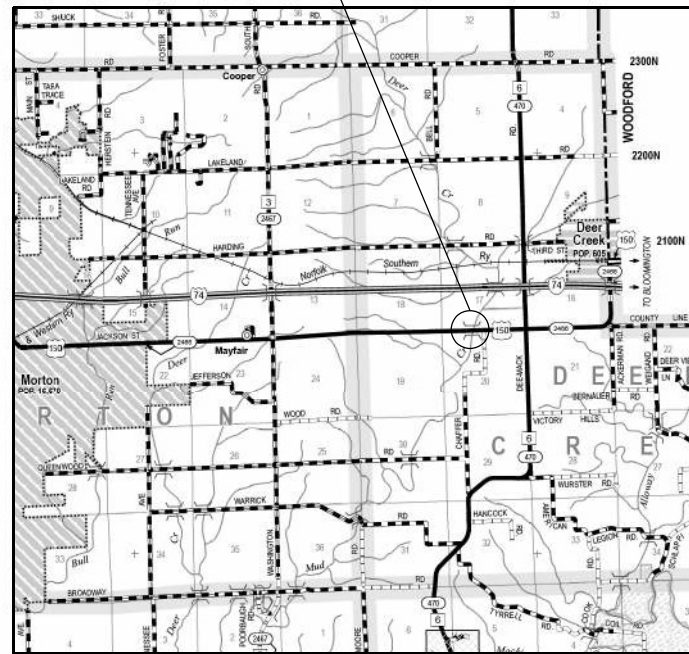
LOCATION MAP
STRUCTURE LOCATIONS 1, 2, 3, 4, 5, 6, & 7

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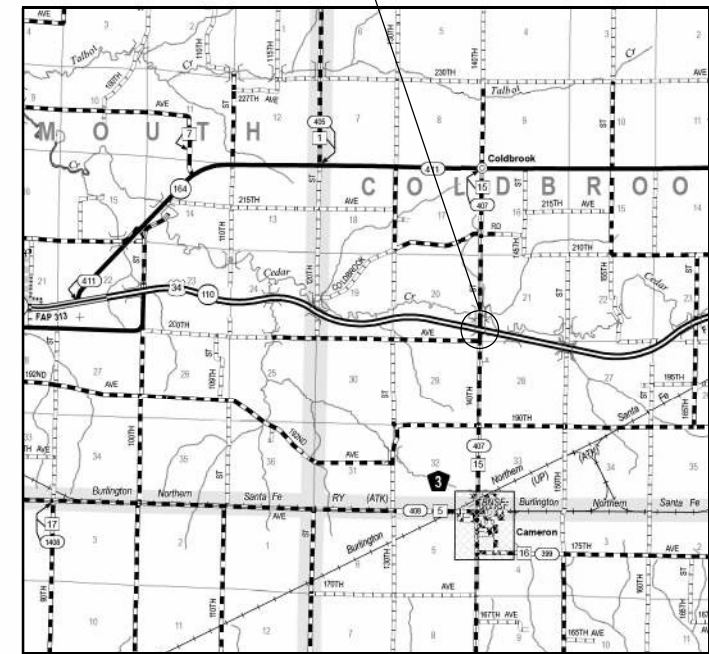
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VAR	D4 BRIDGE PAINTING 2024	*	60	2
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS			FED. AID PROJECT	



Location 8
 SN 072-0228
 US Rte. 24 and IL Rte. 9
 over Lamarsh Creek



Location 9
 SN 090-0043
 US Rte. 150
 over Mud Creek



Location 10
 SN 094-0028
 Cameron Rd.
 over US Rte. 34

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PLOT DATE = 8/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
 STRUCTURE LOCATIONS 8, 9, & 10**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024	*	60	3
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

PROJECT SPECIFIC NOTES

DO NOT SCALE PLANS FOR CONSTRUCTION MEASUREMENTS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE.

LOCATION 1 SN 048-0078: PAINT ENTIRE STRUCTURE.

LOCATION 2 SN 048-0080: PAINT ENTIRE STRUCTURE.

LOCATION 3 SN 055-0021: PAINT 8' OF BEAM ENDS MEASURED FROM THE END OF THE GIRDERS AT ABUTMENTS AND END DIAPHRAGM CROSS FRAMES OF STRUCTURE.

LOCATION 4, 5, 6, & 7 SN 072-0106/072-0107/072-0108/072-0109: PAINT ENTIRE STRUCTURES.

LOCATION 8 SN 072-0228: PAINT 10' OF BEAM ENDS AT THE ABUTMENT FACES.

LOCATION 9 SN 090-0043: PAINT ENTIRE STRUCTURE.

LOCATION 10 SN 094-0028: PAINT ENTIRE STRUCTURE.

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SPI0 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZE/U.

FOR LOCATIONS 1,4,5,6,7,10 THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, (MUNSELL NO.5B 7/1). THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS AND ANY DOWNSPOUTS SHALL BE BLUE (MUNSELL COLOR NO. JOB 3/6).

FOR LOCATIONS 2,3,8,9 THE COLOR OF THE FINAL FINISH COAT FOR ALL SURFACES SHALL BE GRAY (MUNSELL NO.5B 7/1)

ONLY STRUCTURAL STEEL AND OTHER DESIGNATED SURFACES SHALL BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM CONTRACTORS BLASTING AND PAINTING OPERATIONS. ANY AREAS DAMAGED BY BLASTING OR OVERSPRAY WILL BE REMOVED OR REPAIRED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

THE SSPC-QPI AND QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

ALL TRASH AND PAINTING DEBRIS, EXCLUDING WASTE BARRELS OR ROLL-OFF DUMPSTERS, SHALL BE REMOVED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THE FOLLOWING LOCATIONS:

	MIN REQUIRED
1. SN 048-0078	2
3. SN 072-0106	2
4. SN 072-0107	2
5. SN 072-0108	2
6. SN 072-0109	2
7. SN 090-0043	3
9. SN 090-0043	2
10. SN 094-0028	2

SEE SPECIAL PROVISION FOR CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES.

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PLOT DATE = 8/25/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024	*	60	4
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATIONS 4/5	LOCATIONS 6/7	LOCATION 8	LOCATION 9	LOCATION 10
				W KNOX RD	IL 180	CH 8	IL 6/FAI 474	FAI 474/FAI 474	US 24	US 150	CAMERON RD
				SN 048-0078	SN 048-0080	SN 055-0021	SN 072-0106/0107	SN 072-0108/0109	SN 072-0228	SN 090-0043	SN 094-0028
	KNOX	KNOX	MCDONOUGH	PEORIA	PEORIA	PEORIA	TAZEWELL	WARREN			
	URBAN	RURAL	RURAL	URBAN	URBAN	URBAN	RURAL	RURAL			
	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL			
	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE			
	0047	0047	0047	0047	0047	0047	0047	0047			
67100100	MOBILIZATION	L SUM	1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	6	2			1	1			2
70100315	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	2						2		
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2						2		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3		1	1				1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	10				5	5			
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1				0.5	0.5			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3		1	1				1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	468	36	36	36	126	126	36	36	36
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3525	400	600	550	325	500	375	275	500
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	1164	168	60	252	144	186	66	72	216
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3350	400	600	550	325	325	375	275	500
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	13	2	2	2	1	1	1	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	13	2	2	2	1	1	1	2	2
X5017307	PROTECTIVE SHIELD (SPECIAL)	SQ YD	1005				494	511			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 1 OF 3 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE								
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATIONS 4/5	LOCATIONS 6/7	LOCATION 8	LOCATION 9	LOCATION 10	
				W KNOX RD	IL 180	CH 8	IL 6/FAI 474	FAI 474/FAI 474	US 24	US 150	CAMERON RD	
				SN 048-0078	SN 048-0080	SN 055-0021	SN 072-0106/0107	SN 072-0108/0109	SN 072-0228	SN 090-0043	SN 094-0028	
				KNOX	KNOX	MCDONOUGH	PEORIA	PEORIA	PEORIA	TAZEWELL	WARREN	
				80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL	80% FEDERAL
				20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE	20% STATE
				0047	0047	0047	0047	0047	0047	0047	0047	0047
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1							
X5060608	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 8	L SUM	1						1			
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	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				
Z0007109	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 9	L SUM	1							1		
Z0007110	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 10	L SUM	1									1
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						

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PLOT DATE = 8/25/2023	DATE -	REVISED -

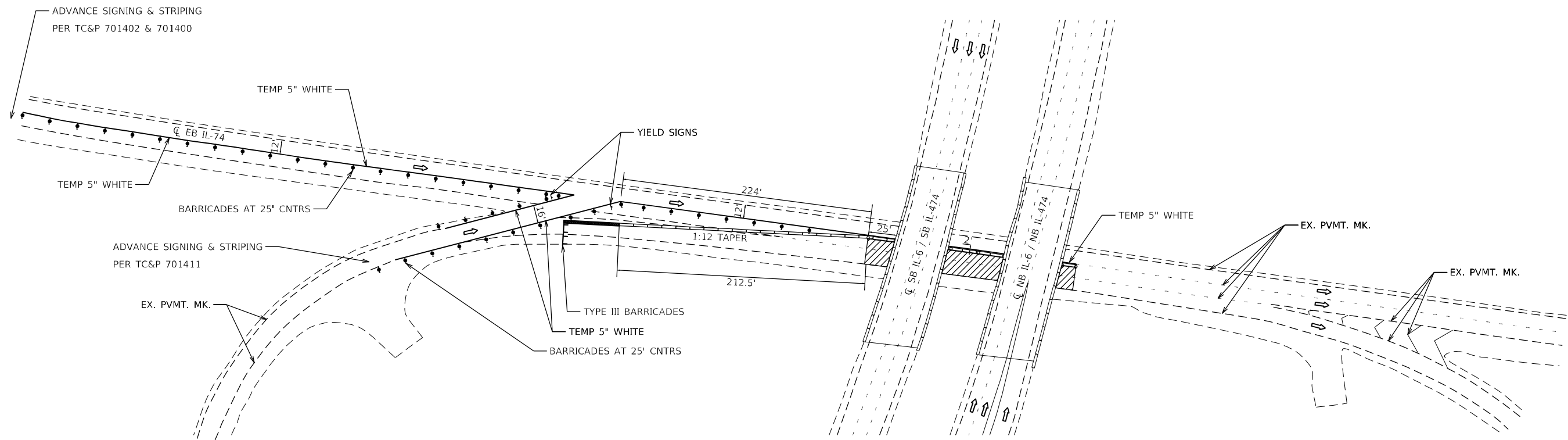
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 2 OF 3 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024	*	60	6
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED AID PROJECT		

LOCATION 6 & 7 – (FAI 474 RMP 1.18 & FAI 474 RMP #109)



GENERAL NOTES

COVERING CONFLICTING PAVEMENT MARKINGS, INSTALLATION AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS, GUARDRAIL AND BARRIER WALL REFLECTORS, REMOVAL AND REINSTALLATION OF RAISED REFLECTIVE PAVEMENT MARKERS, VERTICAL PANELS, BARRICADES WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, ETC., SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701402".

COVERING CONFLICTING PAVEMENT MARKINGS, INSTALLATION AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS, REMOVAL AND REINSTALLATION OF RAISED REFLECTIVE PAVEMENT MARKERS, VERTICAL PANELS, BARRICADES WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, ETC., SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701411".

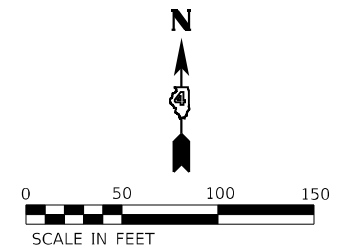
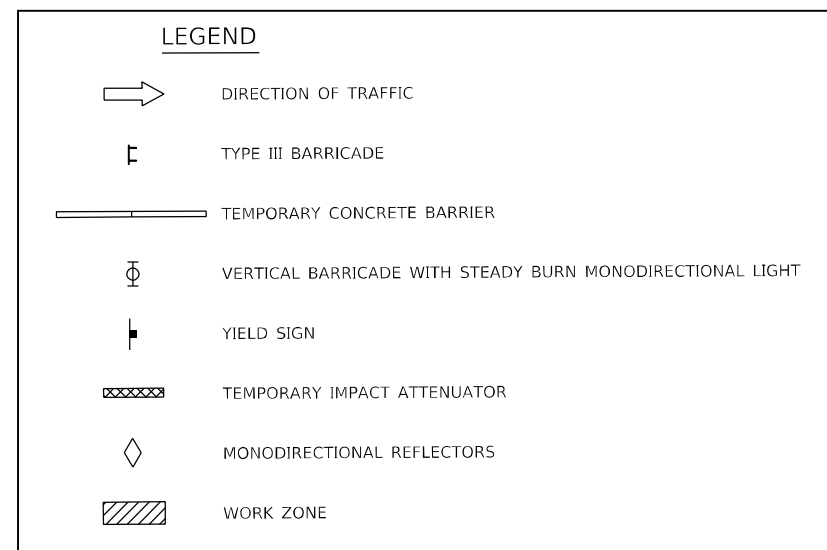
THIS WORK SHALL SUPPLEMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701402 & 701411.

FOR DIMENSIONS AND SPACING, SEE HIGHWAY STANDARD 701400, 701402, & 701411.

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

COVER ALL CONFLICTING PAVEMENT MARKINGS.

TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY ENGINEER.



SN 072-0108 & 072-0109

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

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	DATE -	REVISED -

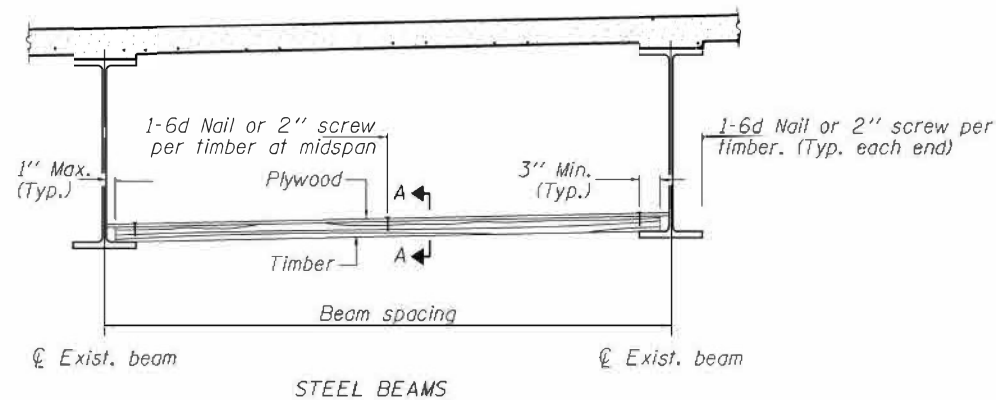
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DETAIL
STRUCTURE LOCATIONS 6 & 7

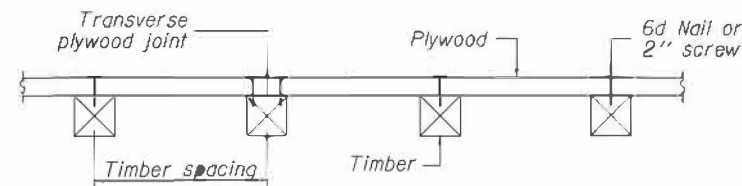
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VAR	D4 BRIDGE PAINTING 2024	*	60	8
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS			FED. AID PROJECT	

LOCATION 4 & 5 – (SB/NB IL 6) & LOCATION 6 & 7 – (FAI 474 RMP 1.18 & FAI 474 RMP #109)



STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

Notes:

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.

All timber shall be treated.

Plywood shall be 5/8" Exterior type plywood.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

Design load = 200 psf.

SN 072-0106, 072-0107, 072-0108, & 072-0109

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USER NAME = ebb	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.0833' / in.	CHECKED -	REVISED -
PLOT DATE = 8/25/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROTECTIVE SHIELD DETAIL

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

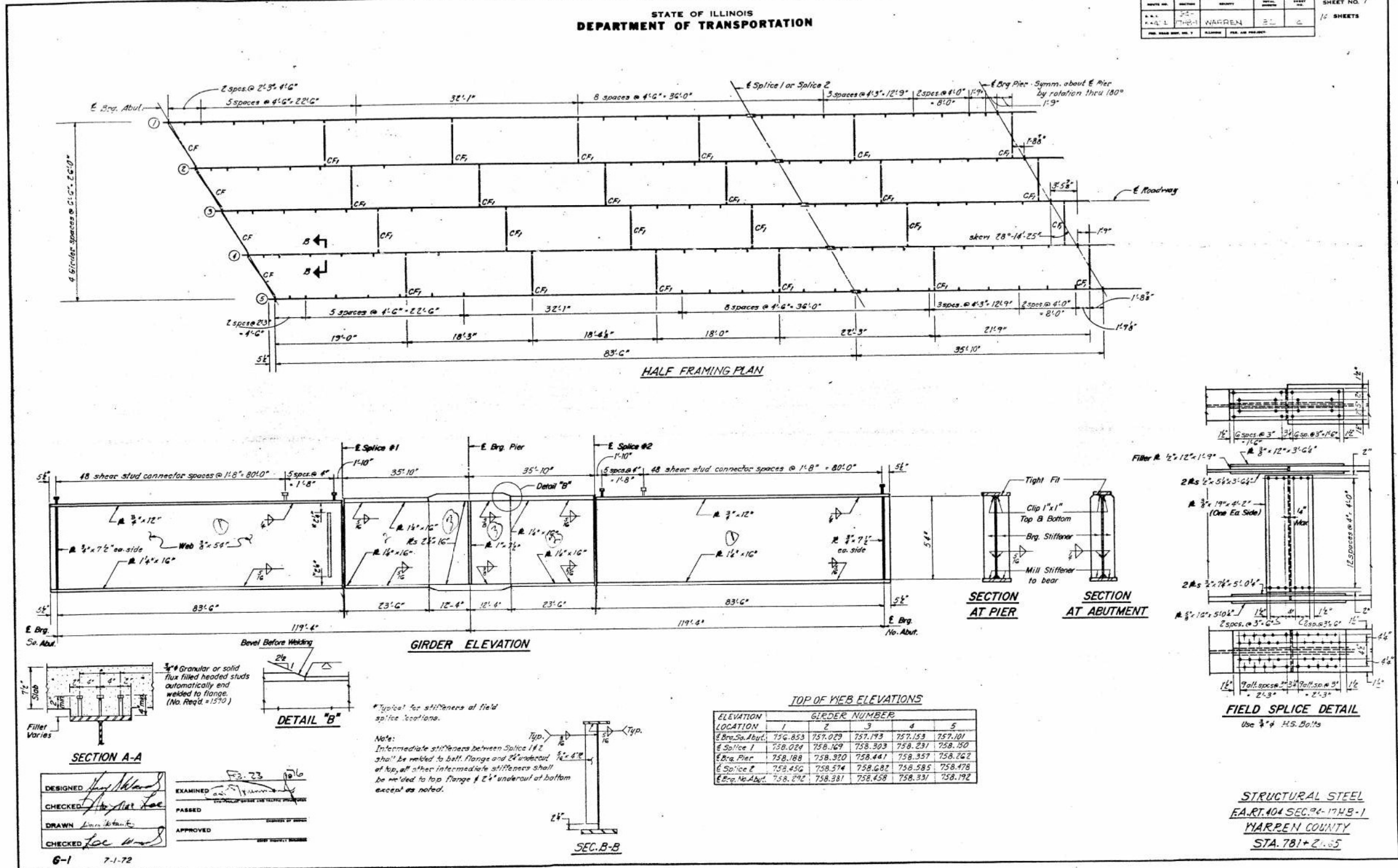
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024	*	60	9
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED AID PROJECT		

FOR INFORMATION ONLY

LOCATION 1 (EB US 34)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	D4 BRIDGE PAINTING	WARREN	60	12
16 SHEETS				



MODEL D:\dof\11...
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SN 048-0078

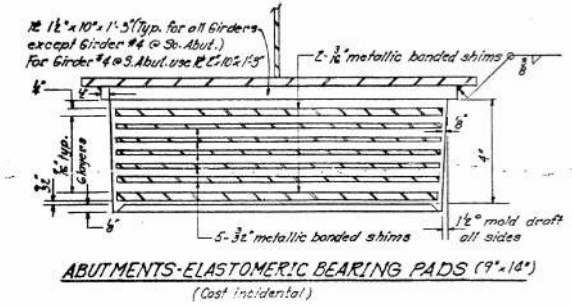
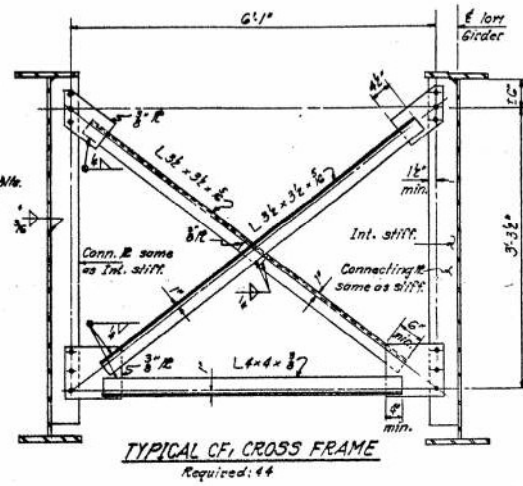
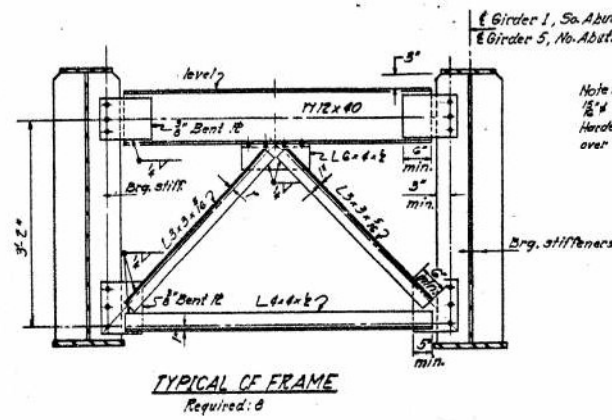
USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 1 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -			VAR	D4 BRIDGE PAINTING 2024			60	12
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			SCALE: N/A SHEET 3 OF 4 SHEETS STA. N/A TO STA. N/A		* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79	
	DATE -	REVISED -					ILLINOIS		FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 1 (EB US 34)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 14 SHEETS
114	17B-1	WARREN	31	15	
<small>FILE NAME: P:\Galesburg\2161\es\216881\DOT - DIST 4 - PTB 201833\Work Order 20 - FY 2024 - Bridge Painting\0468100-struct-bridgepainting.dgn</small>					



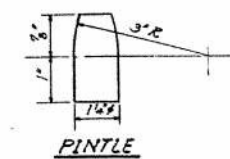
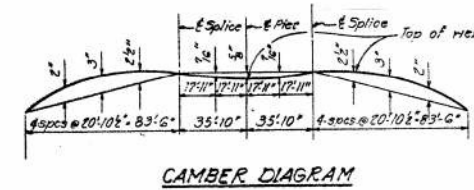
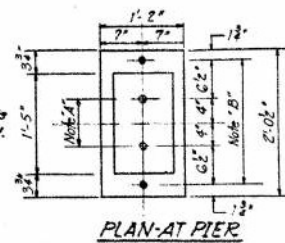
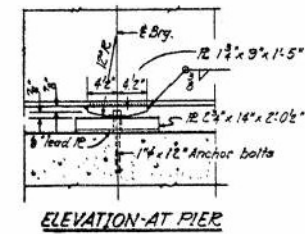
INTERIOR GIRDER MOMENT TABLE		
	4 Span /	Pier
I_x (in ⁴)	23028	61704.2
I_y (in ⁴)	68578	
S_x (in ³)	1136	2116
S_y (in ³)	1533	
r_x (in)	852	852
r_y (in)	716	1850
M_x (ft-k)	7.6	10.5
M_y (ft-k)	4.8	4.8
M_x (ft-k)	437	687
M_y (ft-k)	918	850
M_{imp} (ft-k)	187	173
TOTAL (ft-k)	1344	1712
V_R (k)	12.7	9.7
V_R TOTAL (k)	19.7	20.2
V_R (k)	51	

I_x and S_x are the moment of inertia and section modulus of the steel section.
 I_y and S_y are the moment of inertia and section modulus of the composite section in computing V_R .
 V_R is the maximum $U +$ impact shear range in span used to determine shear connector spacing.

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R_D (k)	54.5	194.7
R_4 (k)	58.5	71.0
R_{imp} (k)	7.7	14.5
R TOTAL	100.7	279.6

Note "A":
1 1/8" holes 1" deep in top flange for 1/4" pinholes. Thread or press fit pinholes in both flanges.

Note "B":
1 1/8" holes for 1" anchor bolts. 2 1/2" x 2 1/2" x 1/4" washers under nut.



DESIGNED: <i>[Signature]</i>	EXAMINED: <i>[Signature]</i>
CHECKED: <i>[Signature]</i>	PASSED: <i>[Signature]</i>
DRAWN: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>
CHECKED: <i>[Signature]</i>	

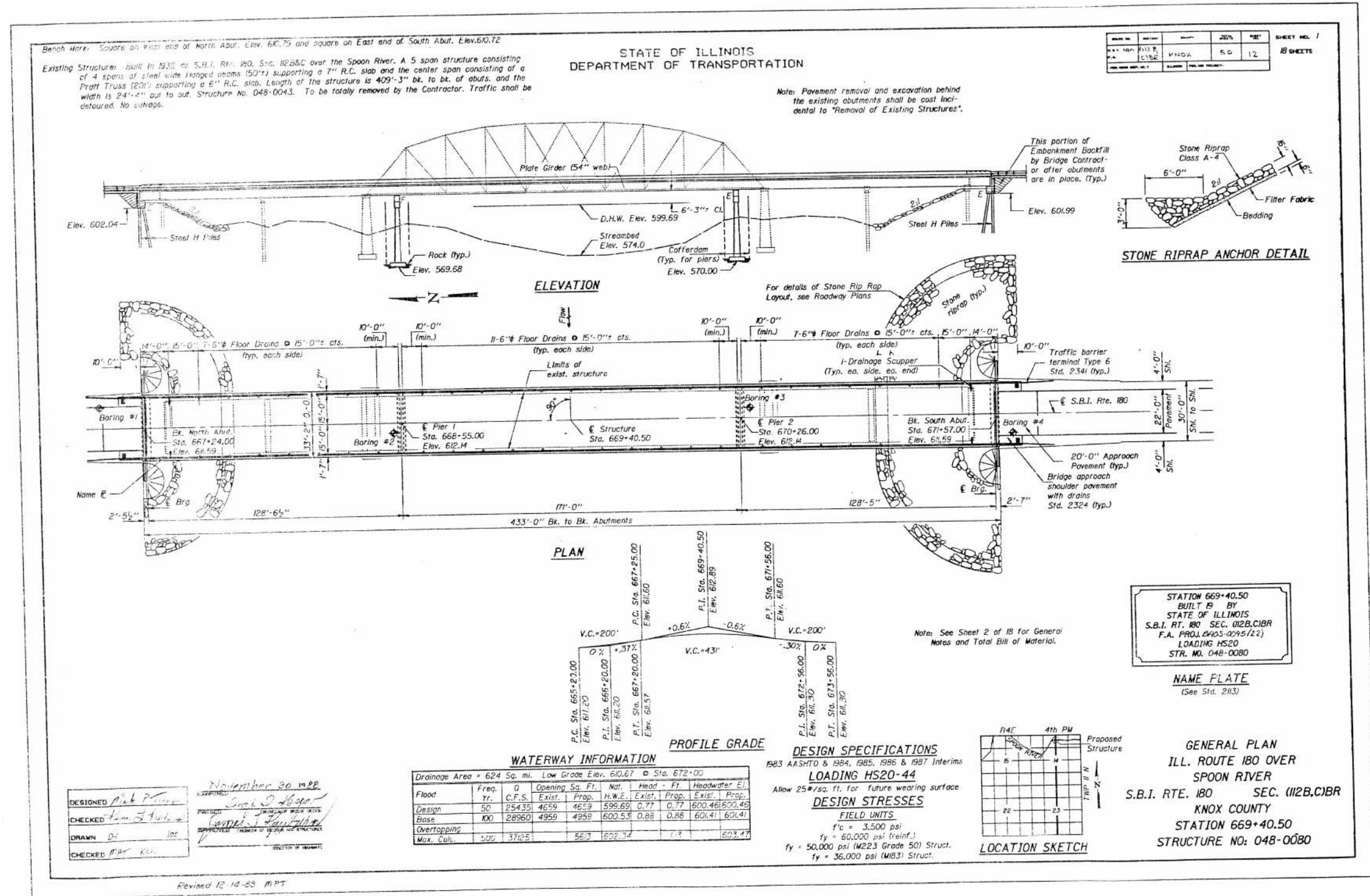
STRUCTURAL STEEL DETAILS
F.A.R.T. 404 SEC. 93-17 HB-1
WARREN COUNTY
STA. 781+2.65

SN 048-0078

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 1 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -			VAR	D4 BRIDGE PAINTING 2024		60	13		
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			SCALE: N/A		SHEET 4 OF 4 SHEETS	STA. N/A	TO STA. N/A	* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79	
	DATE -	REVISED -						ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 2 (IL 180) SPOON RIVER BRIDGE



SN 048-0080

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2 - STRUCTURE INFORMATION

SCALE: N/A SHEET 1 OF 7 SHEETS STA. N/A TO STA. N/A

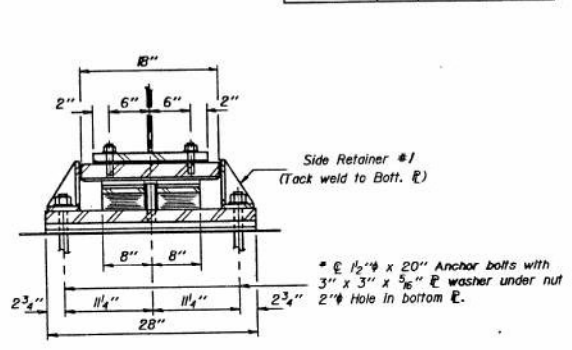
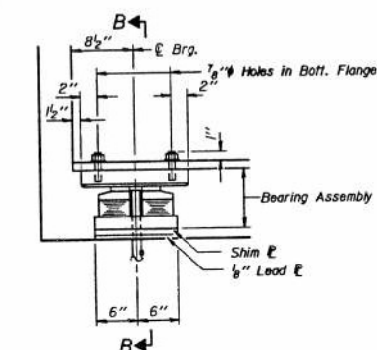
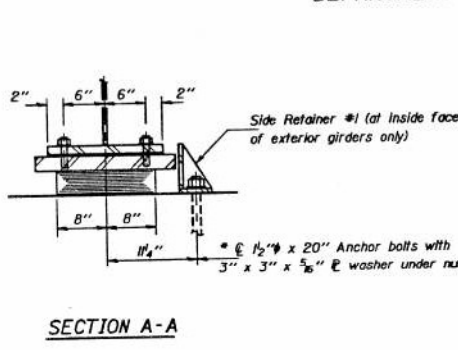
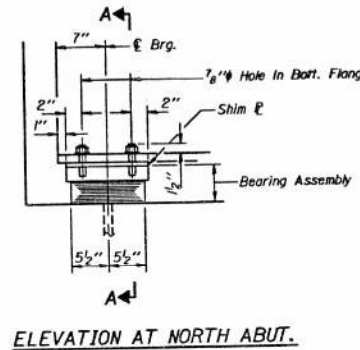
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	14
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS			FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 2 (IL 180) SPOON RIVER BRIDGE

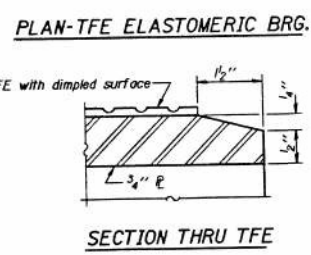
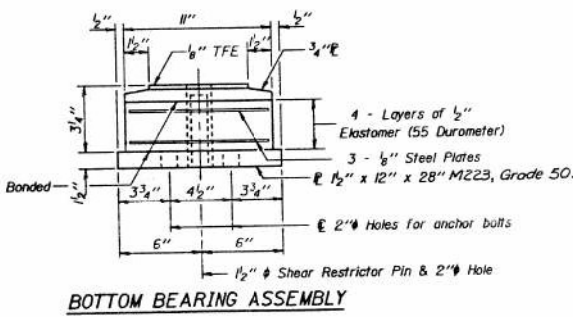
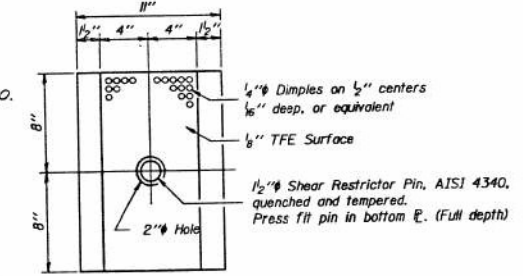
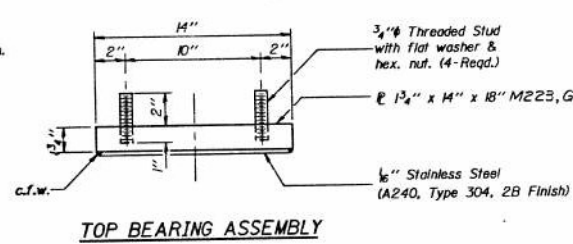
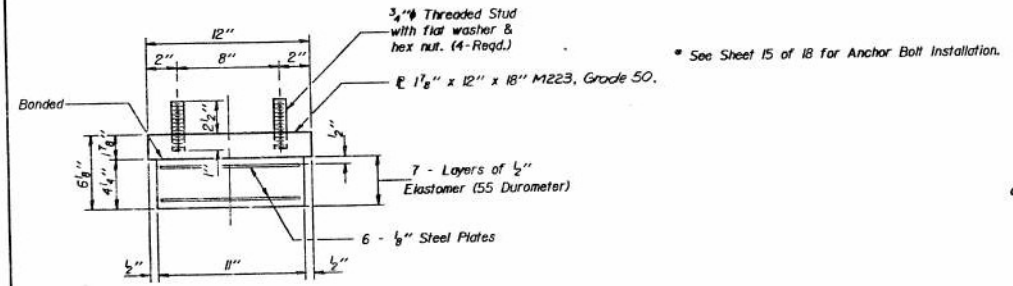
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	APP. NO.	DATE	SHEET NO. 13
11/15/24		K.L.O.K.	50	14	18 SHEETS



TYPE I ELASTOMERIC EXP. BRG.

TYPE III ELASTOMERIC EXP. BRG.



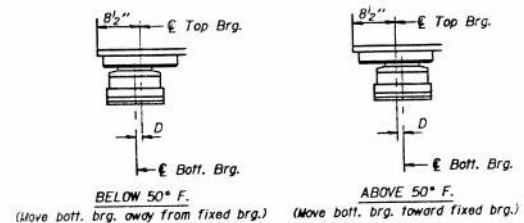
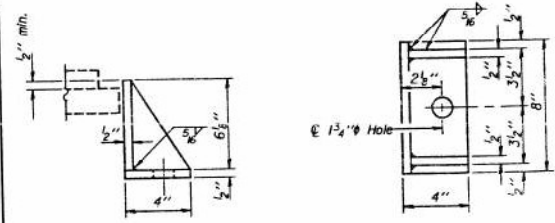
Note: Shim plates shall not be placed under Bearing Assembly.

Note: The 1/2" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMW-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/2" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by The Engineer.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	4
Elastomeric Bearing Assembly Type III	Each	4



DESIGNED: <i>Mark P. Wilson</i>	EXAMINED: <i>James J. [Signature]</i>
CHECKED: <i>Kevin J. [Signature]</i>	PASSED: <i>James J. [Signature]</i>
DRAWN: <i>Dierbert</i>	APPROVED: <i>James J. [Signature]</i>
CHECKED: <i>MPT KLR</i>	

BEARING DETAILS AT ABUTMENTS
S.B.I. RTE. 180 SEC. (112B,C)BR
KNOX COUNTY
STA. 669+40.50

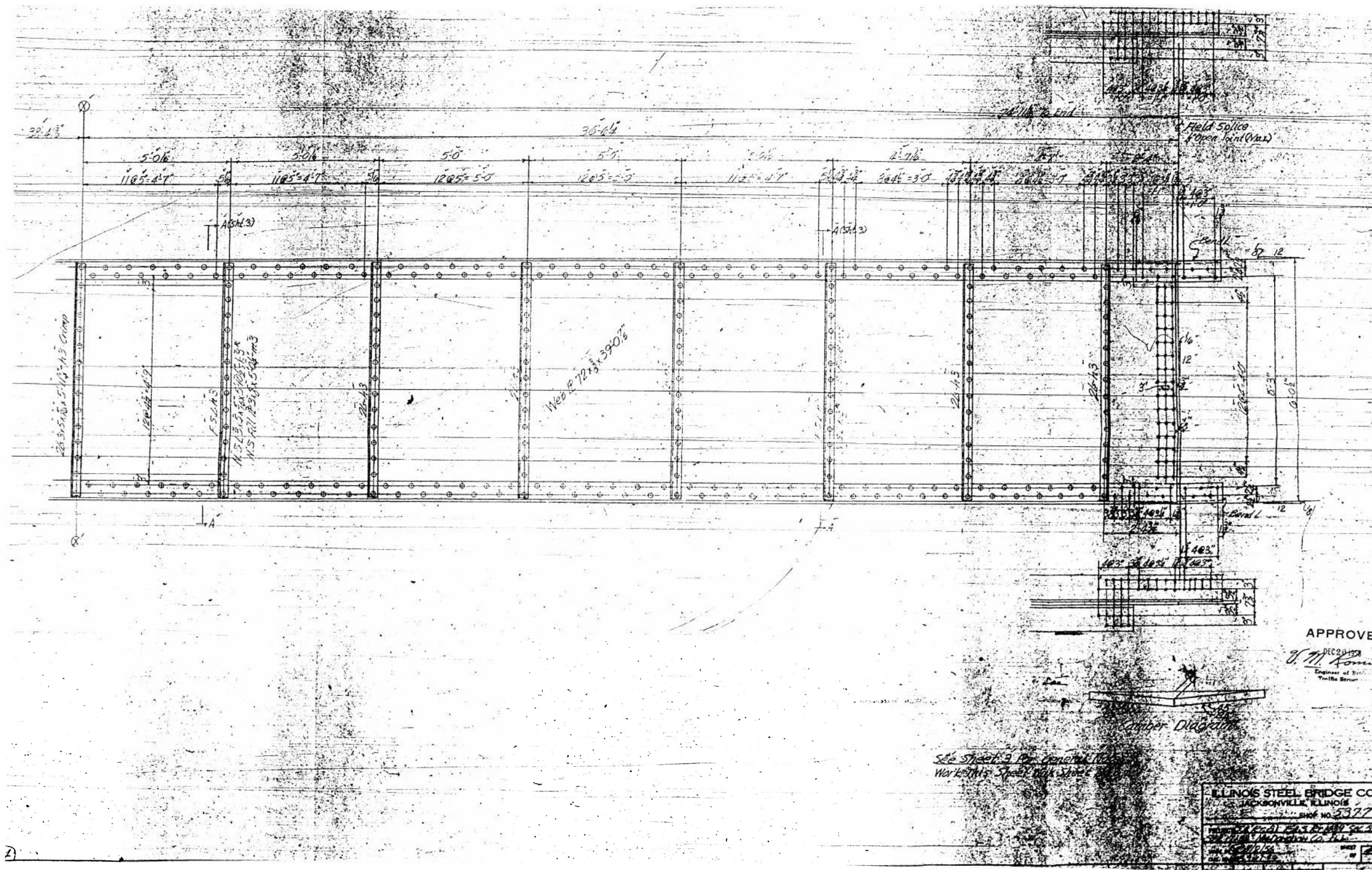
SN 048-0080

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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 2 - STRUCTURE INFORMATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -				VAR	D4 BRIDGE PAINTING 2024		60	19		
PLOT DATE = 8/25/2023	CHECKED -	REVISED -				SCALE: N/A		SHEET 6 OF 7 SHEETS	STA. N/A	TO STA. N/A	* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79	
	DATE -	REVISED -									ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 3 - (HWY 8) E FORK LAMOINE RIVER BRIDGE



SN 055-0021

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USER NAME = ebb	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.0833' / in.	CHECKED -	REVISED -
PLOT DATE = 8/25/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

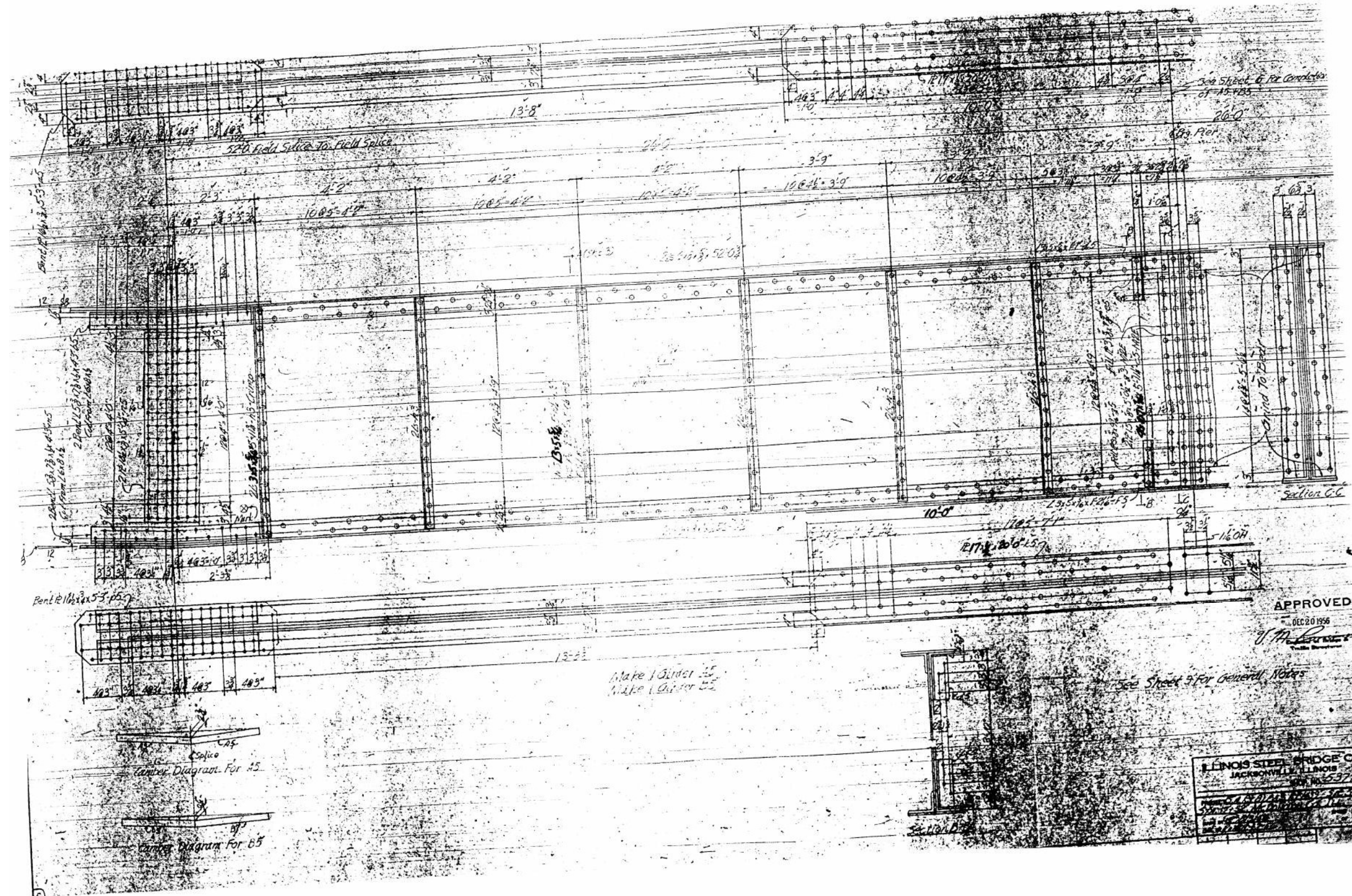
LOCATION 3 - STRUCTURE INFORMATION

SCALE: N/A SHEET 3 OF 7 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	23
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 3 – (HWY 8) E FORK LAMOINE RIVER BRIDGE



MODEL D:\Def\11...
 FILE NAME: P:\Galesburg\211\11...
 DATE: 8/25/2023
 USER: ebb
 DESIGNED: [Blank]
 DRAWN: [Blank]
 CHECKED: [Blank]
 DATE: [Blank]

SN 055-0021

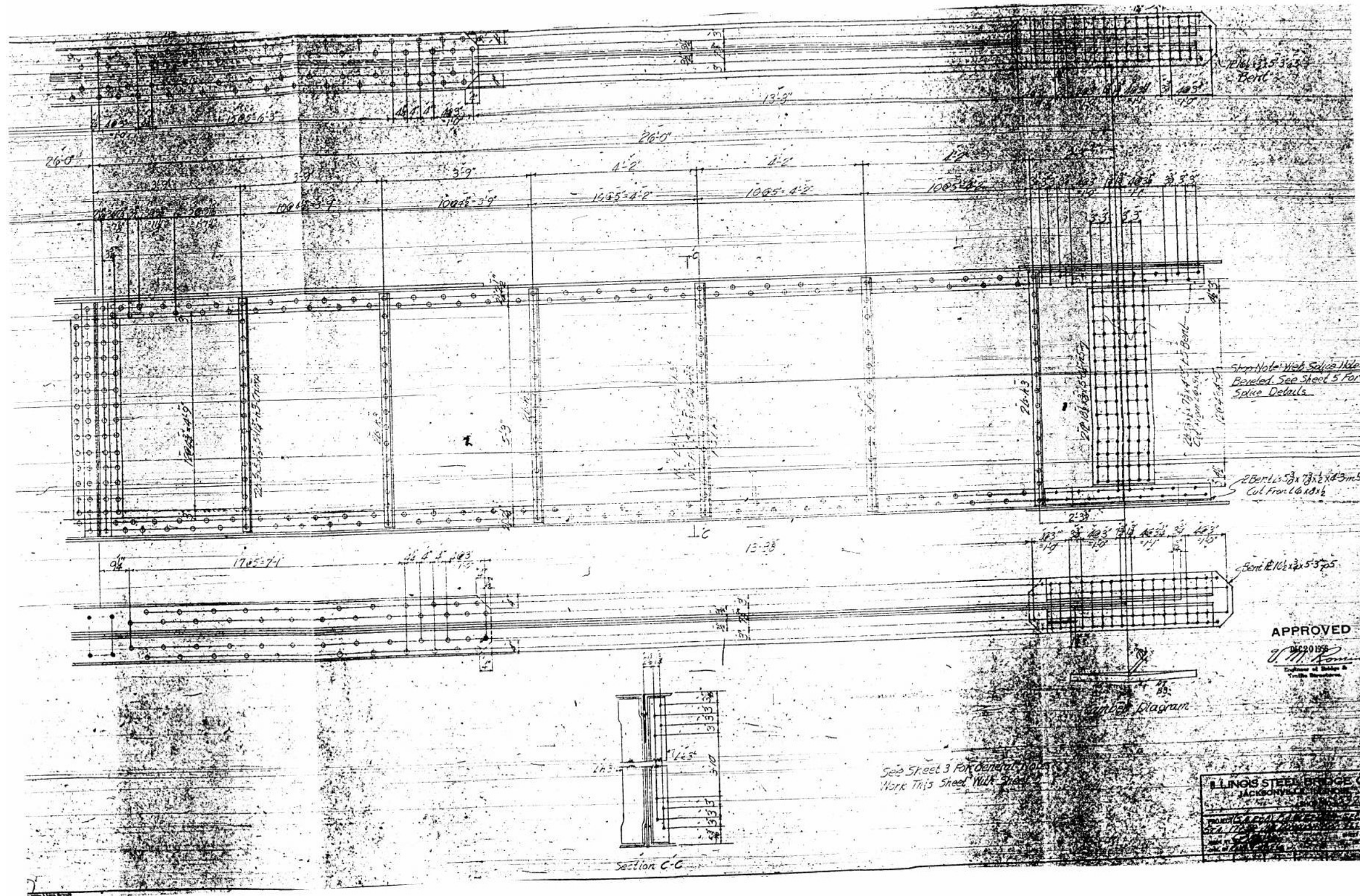
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 3 – STRUCTURE INFORMATION

SCALE: N/A SHEET 4 OF 7 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	24
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY
LOCATION 3 – (HWY 8) E FORK LAMOINE RIVER BRIDGE



SN 055-0021

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USER NAME = ebb	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISED -
PLOT DATE = 8/25/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

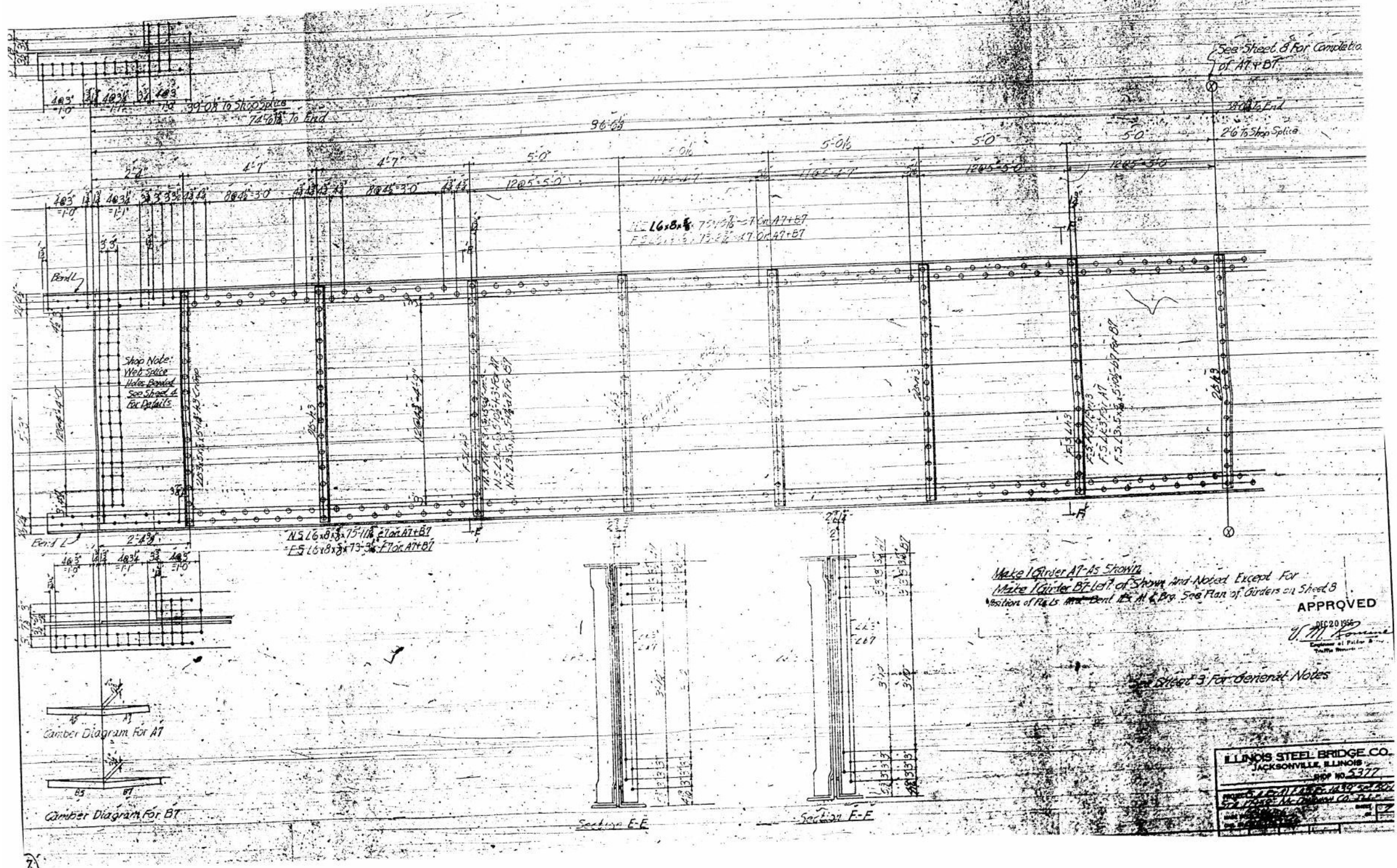
LOCATION 3 – STRUCTURE INFORMATION

SCALE: N/A SHEET 5 OF 7 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	25
KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 3 - (HWY 8) E FORK LAMOINE RIVER BRIDGE



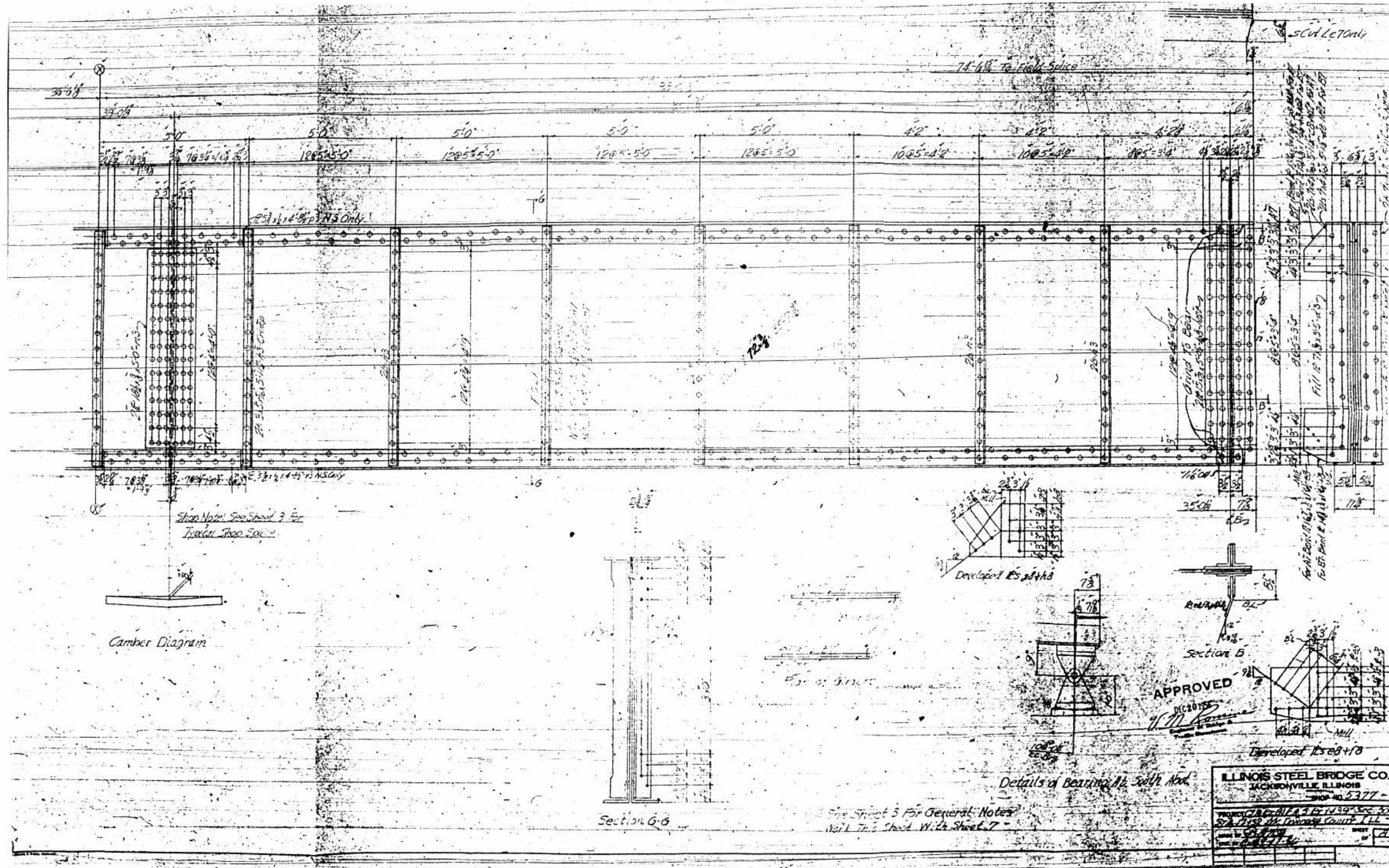
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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 3 - STRUCTURE INFORMATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -		SCALE: N/A	SHEET 6 OF 7 SHEETS	STA. N/A	TO STA. N/A	VAR	D4 BRIDGE PAINTING 2024		60	26
PLOT DATE = 8/25/2023	CHECKED -	REVISED -					* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79		
	DATE -	REVISED -					ILLINOIS			FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 3 – (HWY 8) E FORK LAMOINE RIVER BRIDGE



SN 055-0021

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	DRAWN -	REVISED -
PLOT SCALE = 0.0833' / in.	CHECKED -	REVISED -
PLOT DATE = 8/25/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

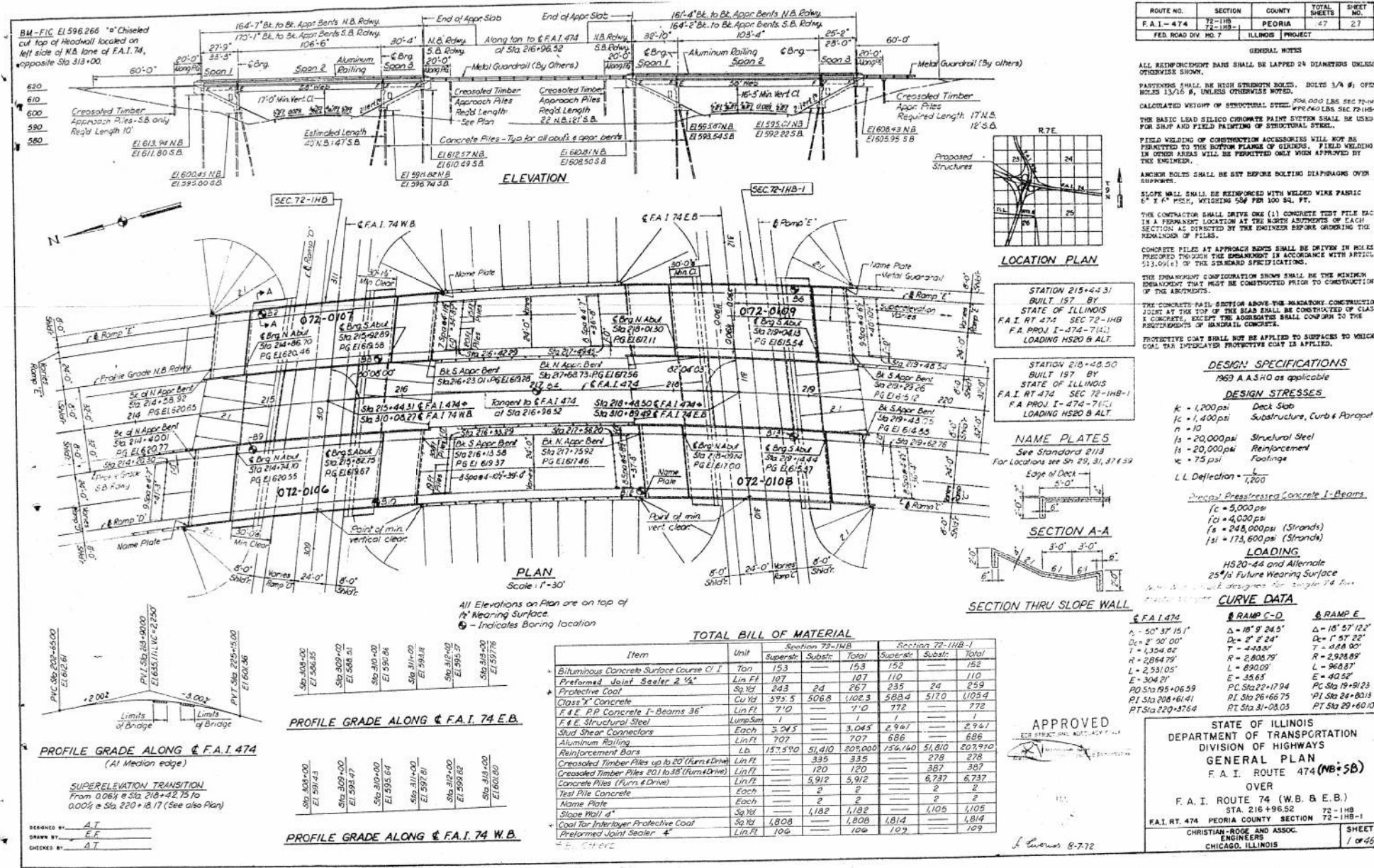
LOCATION 3 – STRUCTURE INFORMATION

SCALE: N/A SHEET 7 OF 7 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	27
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 4 & 5 - (SB/NB IL 6)



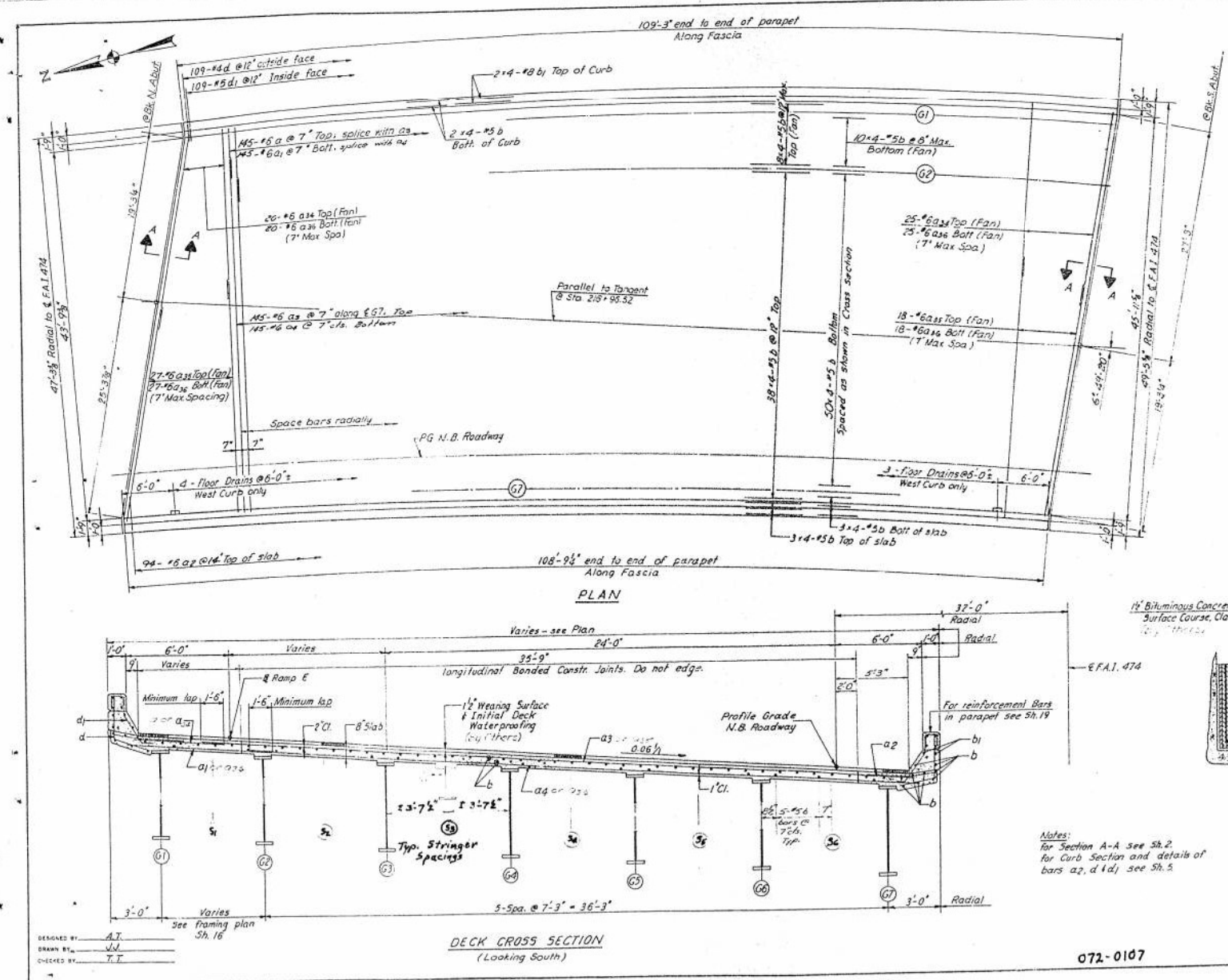
SN 072-0106 & 072-0107

USER NAME = ebb	DESIGNED -	REVISED -		STATE OF ILLINOIS	LOCATION 4 & 5 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		DEPARTMENT OF TRANSPORTATION		VAR.	D4 BRIDGE PAINTING 2024		60	28
PLOT SCALE = 0.8833" / 1"	CHECKED -	REVISED -				* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN				CONTRACT NO. 68H79
PLOT DATE = 8/25/2023	DATE -	REVISED -			SCALE: N/A	SHEET 1 OF 8 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS FED. AID PROJECT	

MODEL D:_p\1\Galesburg\2161es\216881\DOT - DIST 4 - PTB 201-833\Work Order 20 - FY 2024 Bridge\Transportation\68H79 Bridge\Painting\0468H30-struct\bridgepainting.dgn

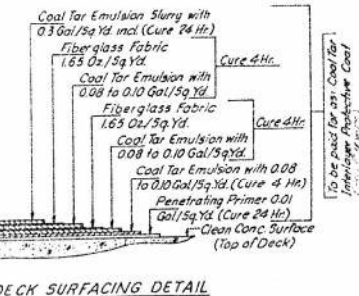
FOR INFORMATION ONLY

LOCATION 4 & 5 - (SB/NB IL 6)



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. - 474	T2-1HB	PEORIA	47	29
FED. ROAD DIV. NO. 7	ILLINOIS PROJECT			

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a	145	#6	9'-1"	
a1	145	#6	9'-8"	
a2	180	#6	6'-0"	
a3	145	#6	40'-3"	
a4	145	#6	38'-8"	
a14	45	#6	27'-9"	
a15	45	#6	20'-2"	
a16	90	#6	24'-2"	
b	480	#5	28'-4"	
b1	16	#8	28'-9"	
d	218	#4	6'-10"	
d1	218	#4	3'-8"	
Class 'X' Concrete Cu Yds 15.15				
Reinforcement Bars Lbs 45,900				
Coal Tar Interlayer Prod. Sq Yds 504				
Preformed Joint Sealer Lin Ft. 29				
Structural Steel Lbs. 260,750				
Shear Stud Connectors Ea. 1030				
Bituminous Concrete Surface Course Class I Tons 46				
Protective Coat Sq Yds 81				
Preformed Joint Sealer Lin Ft. 51				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUPERSTRUCTURE SPAN 2
NORTHBOUND ROADWAY
F.A.I. ROUTE 474 OVER
F.A.I. ROUTE 74 W.B.
STA. 216+96.82
F.A.I. RT. 474 PEORIA COUNTY SECTION T2-1HB

CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
3 of 46

MODEL D:\p\11\2024\Projects\216\216-0106-0107 - DISE1 4 - PTB 201-0321\Work Order 20 - FY 2024 Bridge\Transportation\68H79 Bridge Painting\0468H79-Str Bridge Painting.dgn

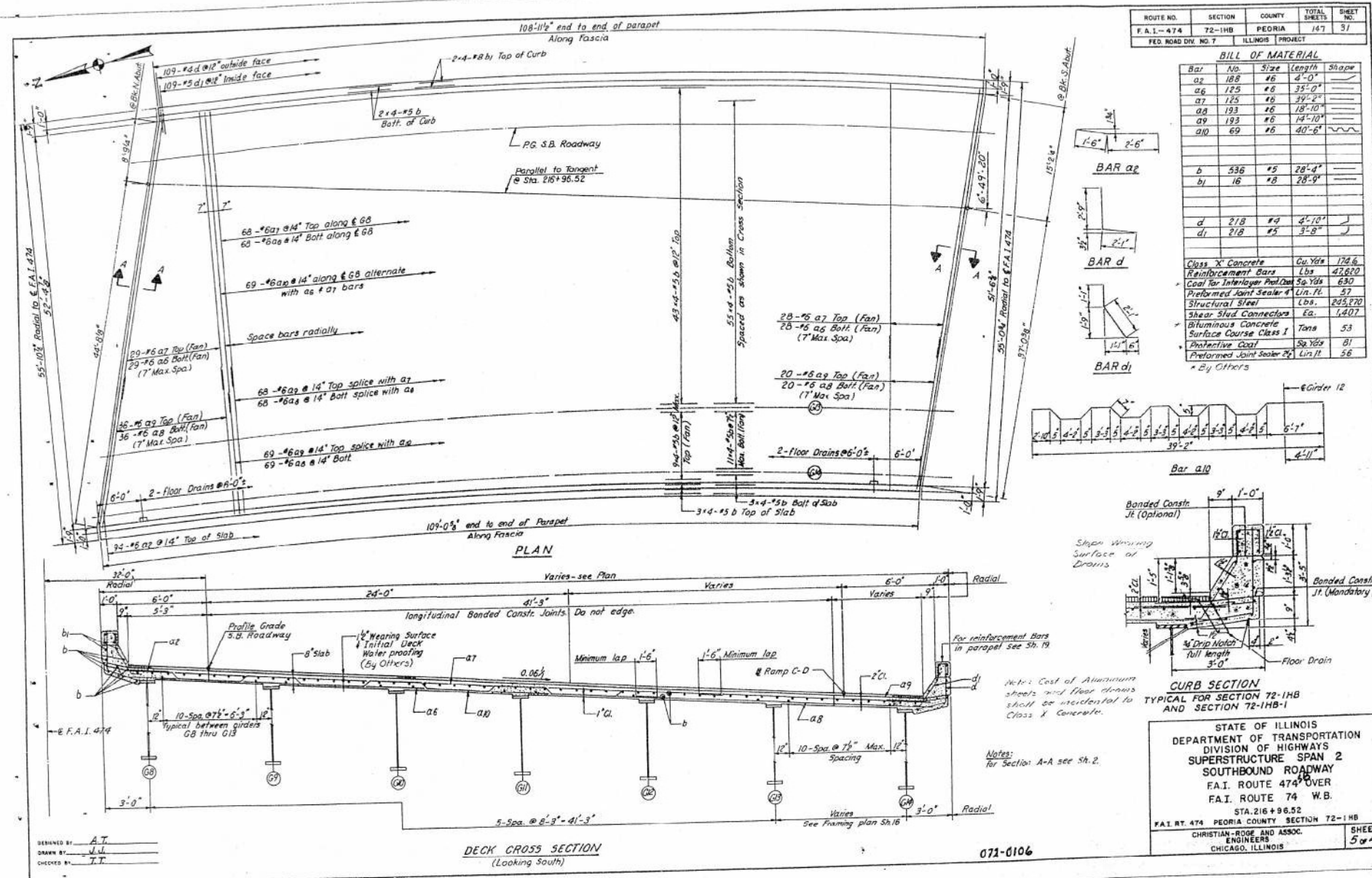
SN 072-0106 & 072-0107

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4 & 5 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -			VAR	D4 BRIDGE PAINTING 2024			60	29
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79					
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: N/A SHEET 2 OF 8 SHEETS STA. N/A TO STA. N/A

FOR INFORMATION ONLY

LOCATION 4 & 5 - (SB/NB IL 6)



MODEL D:\dof\11... FILE NAME: P:\Galesburg\2111\res\212981\DOT - DIST - 4 - PTB 201-833\Work Order 20 - FY 2024 Bridge\Transportation\66175 Bridge Painting\0466130-struct\bridgepainting.dgn

SN 072-0106 & 072-0107

DESIGNED -	DRAWN -	CHECKED -	DATE -	REVISED -	REVISED -	REVISED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION LOCATION 4 & 5 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 0.8833' / 1"									SCALE: N/A	SHEET 3 OF 8 SHEETS	STA. N/A TO STA. N/A	ILLINOIS	60	30
PLOT DATE = 8/25/2023										KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79		
										CHRISTIAN, ROSE AND ASSOC. ENGINEERS		CHICAGO, ILLINOIS		

FOR INFORMATION ONLY

LOCATION 4 & 5 - (SB/NB IL 6)

FRAMING PLAN
72-1HB

GIRDER SCHEDULE

GIRDER	L	a	a1	GIRDER RADII
1	107'-0 3/4"	63'-7 1/2"	1'-2 1/2"	1 2932.89
2	107'-4"	63'-3"	10"	2 2923.04
3	107'-4 1/2"	63'-3 1/2"	10 1/2"	3 2921.79
4	107'-4 1/2"	63'-3 1/2"	10 1/2"	4 2914.54
5	107'-4 1/2"	63'-3 1/2"	10 1/2"	5 2907.29
6	107'-4 1/2"	63'-3 1/2"	10 1/2"	6 2900.04
7	107'-4 1/2"	63'-3 1/2"	10 1/2"	7 2892.79
8	107'-5 1/4"	63'-4 1/2"	11 1/4"	8 2885.54
9	107'-5 1/4"	63'-4 1/2"	11 1/4"	9 2878.29
10	107'-5 1/4"	63'-4 1/2"	11 1/4"	10 2871.04
11	107'-5 1/4"	63'-4 1/2"	11 1/4"	11 2863.79
12	107'-5 1/4"	63'-4 1/2"	11 1/4"	12 2856.54
13	107'-5 1/4"	63'-4 1/2"	11 1/4"	13 2849.29
14	107'-7 1/8"	63'-6 1/8"	1 1/8"	14 2842.04

TOP OF WEB ELEVATIONS FOR FABRICATION

GIRDER	E. Brg. N. Abut.	E. Brg. S. Abut.
1	621.66	620.77
2	621.36	620.47
3	620.94	620.05
4	620.51	619.62
5	620.09	619.20
6	619.66	618.77
7	619.24	618.35
8	618.77	618.89
9	618.29	618.41
10	618.81	617.93
11	618.32	617.44
12	617.84	616.96
13	617.35	616.48
14	616.85	615.97

INTERIOR GIRDER MOMENT TABLE

	5-Span N.B.	5-Span S.B.
Is (in ⁴)	52,920	57,174
Ic (in ⁴)	119,955	129,365
Is (in ⁴)	2179	2553.8
Sc (in ³)	2790	3289.7
B (ft)	1.01	1.14
Mg (ft-k)	1,458.8	1,646.8
Fg (ft-k)	8.7	8.4
Mg (ft-k)	602.9	688.8
Mg (ft-k)	1076.9	1256.9
Mg (ft-k)	252.9	268.9
Total (ft-k)	1,912.6	2,194.5
Sp/ft (ft-k)	8.2	8.8
Fs/ft (ft-k)	16.3	17.2
Vr (k)	527	599

INTERIOR GIRDER REACTION TABLE

	Abut. N.B.	Abut. S.B.
Rg (k)	76.7	86.2
Rc (k)	45.3	49.3
Rf (k)	84	106
R Total (k)	128.4	146.1

CROSS FRAME CF
30 Reqs. 72-1HB-072-0106 & 0107
30 Reqs. 72-1HB-1-072-0108 & 0109

SHEAR CONNECTOR DETAIL
5/8" x 4" x 2" Reqs. 72-1HB
2-9/16" Reqs. 72-1HB-1

CAMBERING DIAGRAM
For fabrication of structural steel. Includes allowance for deflection due to weight of concrete & steel only. For 72-1HB & 72-1HB-1. (For Girders Only)

GIRDER ELEVATION

NOTES:

- For Geometric Layout see sheet 43.
- All Cross Frames are CF or C2 unless otherwise noted.
- All Girders shall be fabricated to their respective radii shown in table on this sheet.
- All Cross Frames CF/C2 are on Radials to F.A.I. 474.
- For Additional Details see sheet 17.5/72

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL

F.A.I. ROUTE 474
F.A.I. ROUTE 74 W.B.
F.A.I. RT. 474 PEORIA COUNTY SECTION 72-1HB
CHRISTIAN-ROGE AND ASSOC. ENGINEERS
CHICAGO, ILLINOIS

MODEL D:_p1\... FILE NAME: P:\Galesburg\211\... 2024 Bridge Painting\0468130-struct-bridgepainting.dgn

SN 072-0106 & 072-0107

USER NAME = ebb	DESIGNED -	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4 & 5 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN BY: EM	REVISIONS -	REVISIONS -				RT. 474	D4 BRIDGE PAINTING 2024	PEORIA	60	31	
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISIONS -				* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79					
PLOT DATE = 8/25/2023	DATE -	REVISIONS -				ILLINOIS FED. AID PROJECT					

FOR INFORMATION ONLY

LOCATION 4 & 5 - (SB/NB IL 6)

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

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2024-0106	72-118	Peoria	44	44

SHEET NO. 17A
16 SHEETS

DETAIL B

CROSS FRAME CFS
30-CFS Required 72-118
30-CFS Required 72-118-1

NORTH BOUND RDWY SEC 72-118-1
TOP OF STRINGER (W21x55) ELEVATIONS

Stringer	E. Side	A	B	C	D	E	W. Side
Stringer 1	618.75	618.29	618.40	618.07	617.78	617.56	616.95
Stringer 2	618.30	618.18	617.93	617.68	617.34	616.96	616.58
Stringer 3	617.79	617.63	617.42	617.17	616.88	616.53	616.19
Stringer 4	617.08	617.12	616.91	616.67	616.38	616.05	615.72
Stringer 5	616.77	616.61	616.40	616.16	615.87	615.54	615.21
Stringer 6	616.26	616.10	615.89	615.64	615.36	615.03	614.69

(For Fabrication Only)

DETAIL C

BEG. STIFFENERS & CROSS FRAME CFS
12-CFS Required 72-118
12-CFS Required 72-118-1

NORTH BOUND RDWY SEC 72-118
TOP OF STRINGER (W21x55) ELEVATIONS (For Fabrication Only)

Stringer	E. Side	A	B	C	D	E	W. Side
Stringer 1	621.58	621.49	621.38	621.17	621.02	620.82	620.62
Stringer 2	621.28	621.21	621.11	620.98	620.77	620.60	620.59
Stringer 3	620.84	620.78	620.68	620.56	620.39	620.26	619.97
Stringer 4	620.43	620.36	620.26	620.13	619.96	619.75	619.54
Stringer 5	620.61	619.93	619.83	619.71	619.54	619.33	619.12
Stringer 6	619.38	619.21	619.11	619.28	619.11	618.90	618.70

Note: Top of stringer elevations are adjusted for the deflection of main girders due to the weight of concrete only.

INTERIOR GIRDER MOMENT TABLE (For Temporary Loading)

Member	End	Moment (k-ft)	End	Moment (k-ft)
B	(1)	110	(2)	1825
	(1)	1537	(2)	1410
M-E	(1)	0.233	(2)	0.247
	(1)	325	(2)	324
M-E	(1)	1616	(2)	1767
	(1)	349	(2)	380
M. Rdwy SE-E-1	(1)	2290	(2)	2481
	(1)	1058	(2)	1941

INTERIOR GIRDER REACTION TABLE FOR TEMPORARY LOADING

Member	End	Reaction (k)	End	Reaction (k)
B	(1)	710	(2)	760
	(1)	490	(2)	781
M-E	(1)	150	(2)	171
	(1)	1550	(2)	1712

Note: The above design data tables do not include the stresses due to curvature.

STRUCTURAL STEEL
NORTHBOUND RDWY
FAI 474 over FAI 74
SECTIONS 72-118 & 72-118-1
STATION 616+96.38
PEORIA COUNTY

DESIGNED: Bob G.K.	EXAMINED: _____
CHECKED: Mike	PASSED: _____
DRAWN: Derringer	APPROVED: _____
CHECKED: _____	DATE: _____

SN 072-0106 & 072-0107

MODEL D:\p\... FILE NAME: P:\Galesburg\211\es\210881\DDT - DIST 4 - PTB 201-833\Work Order 20 - FY 2024 Bridge\Transportation\68179 Bridge Painting\0468130-struct-bridgepainting.dgn

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4 & 5 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -			VAR	D4 BRIDGE PAINTING 2024		60	32	
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79			
	DATE -	REVISED -			ILLINOIS	FED. AID PROJECT				

SCALE: N/A SHEET 5 OF 8 SHEETS STA. N/A TO STA. N/A

FOR INFORMATION ONLY

LOCATION 4 & 5 - (SB/NB IL 6)

BEAM REACTIONS

	072-0106(SB)	072-0107(NB)
R _P (K)	86.2	76.7
R _L (K)	49.3	43.3
Imp (K)	10.6	9.3
R (Total) (K)	146.1	129.3

Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. Jack capacity = 83 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

EXISTING BEARING REMOVAL DETAIL
 Existing R to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.
 Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.
 Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	14
Furnishing and Erecting Structural Steel	Pound	5140
Anchor Bolts, 1 1/2"Ø	Each	28

DESIGNED - JSB
CHECKED - CCC
DRAWN - Jim Ostermann
CHECKED - JSB

EXAMINED - [Signature]
ENGINEER OF STRUCTURAL SERVICES
REGISTERED PROFESSIONAL ENGINEER
NO. 00812221
BOARDS OF BRIDGES AND STRUCTURES

DATE - MAY 07, 2021
REVISED - 01/28/2021 JSB
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT - SOUTH ABUTMENTS
SN 072-0106 (SB) & 072-0107 (NB)

F.A. RTE. 474
SECTION 721(H)B-1.2.3(R)
COUNTY PEORIA
TOTAL SHEETS 63
SHEET NO. 23
CONTRACT NO. 68H79
ILLINOIS FED. AID PROJECT

REVISION 6/1/21

SN 072-0106 & 072-0107

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION

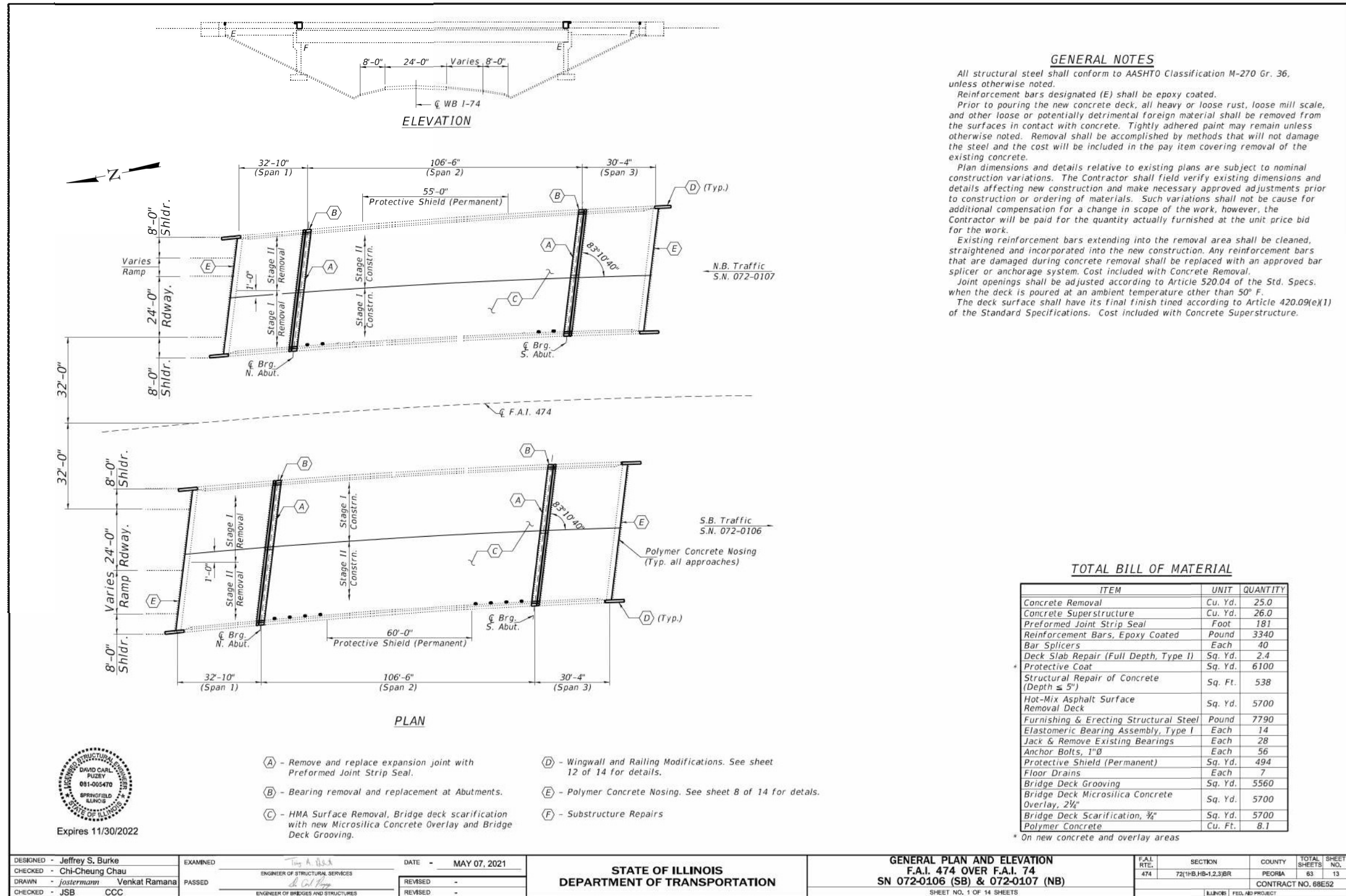
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024	*	60	34

* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79
 ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

LOCATION 4 & 5 – (SB/NB IL 6)



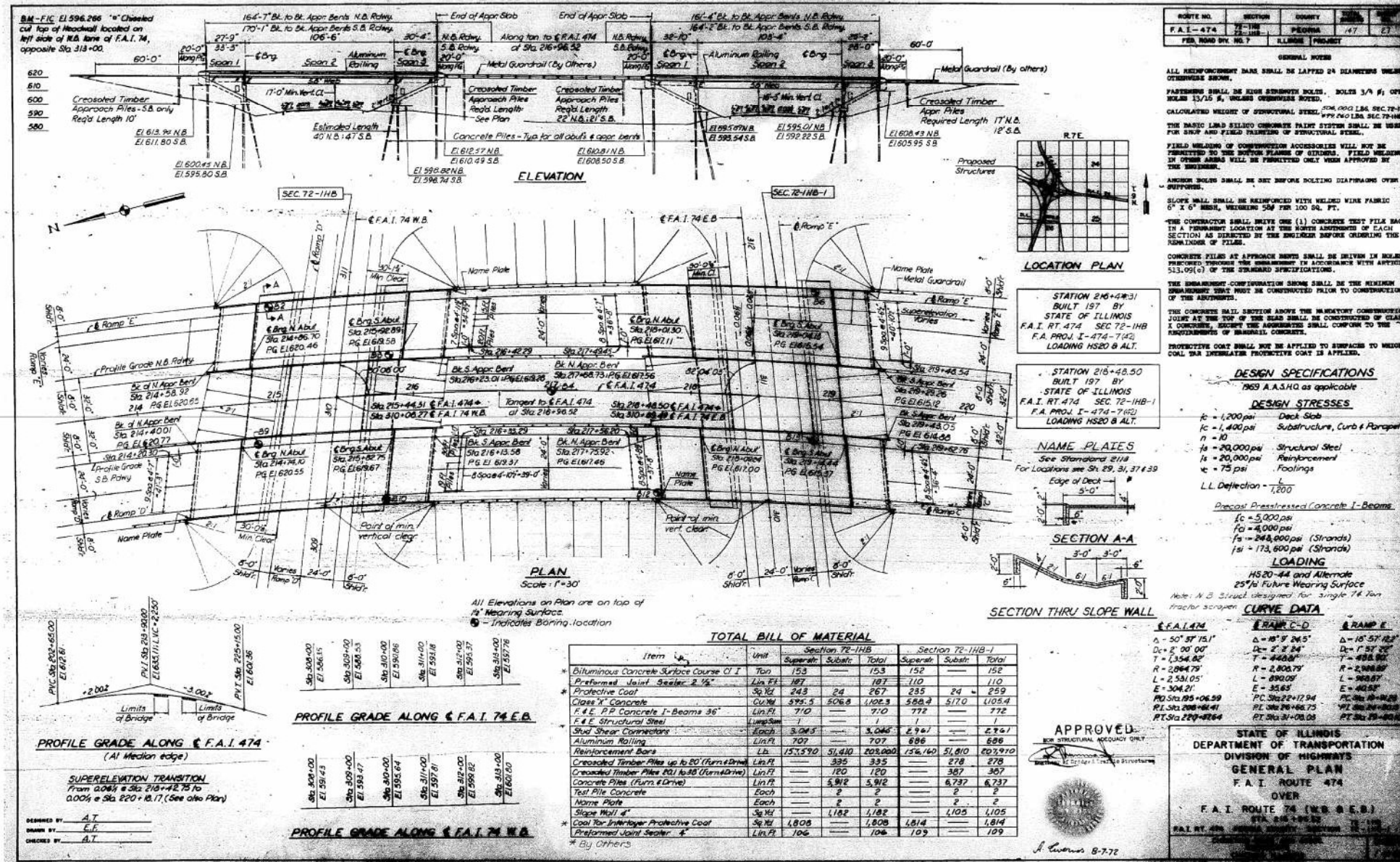
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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4 & 5 – STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			474	72(1)B, HB-1.2, 3BR	PEORIA	60	35	
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISED -			* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79					
PLOT DATE = 8/25/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



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SN 072-0108 & 072-0109

USER NAME = ebb	DESIGNED -	REVISED -			
	DRAWN -	REVISED -			
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISED -			
PLOT DATE = 8/25/2023	DATE -	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 & 7 - STRUCTURE INFORMATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	36
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS			FED. AID PROJECT	

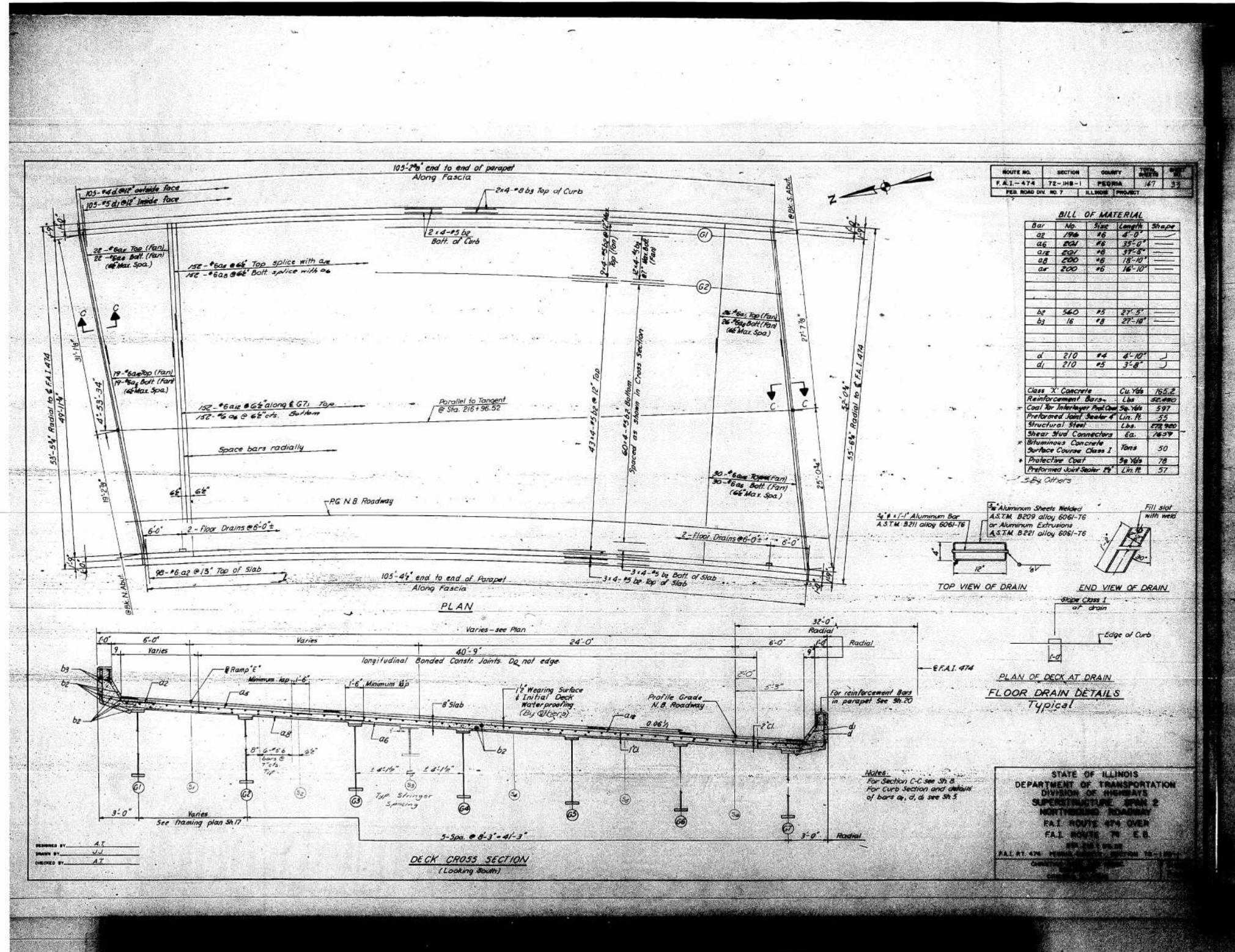
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SHEET 1 OF 10 SHEETS

STA. N/A TO STA. N/A

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



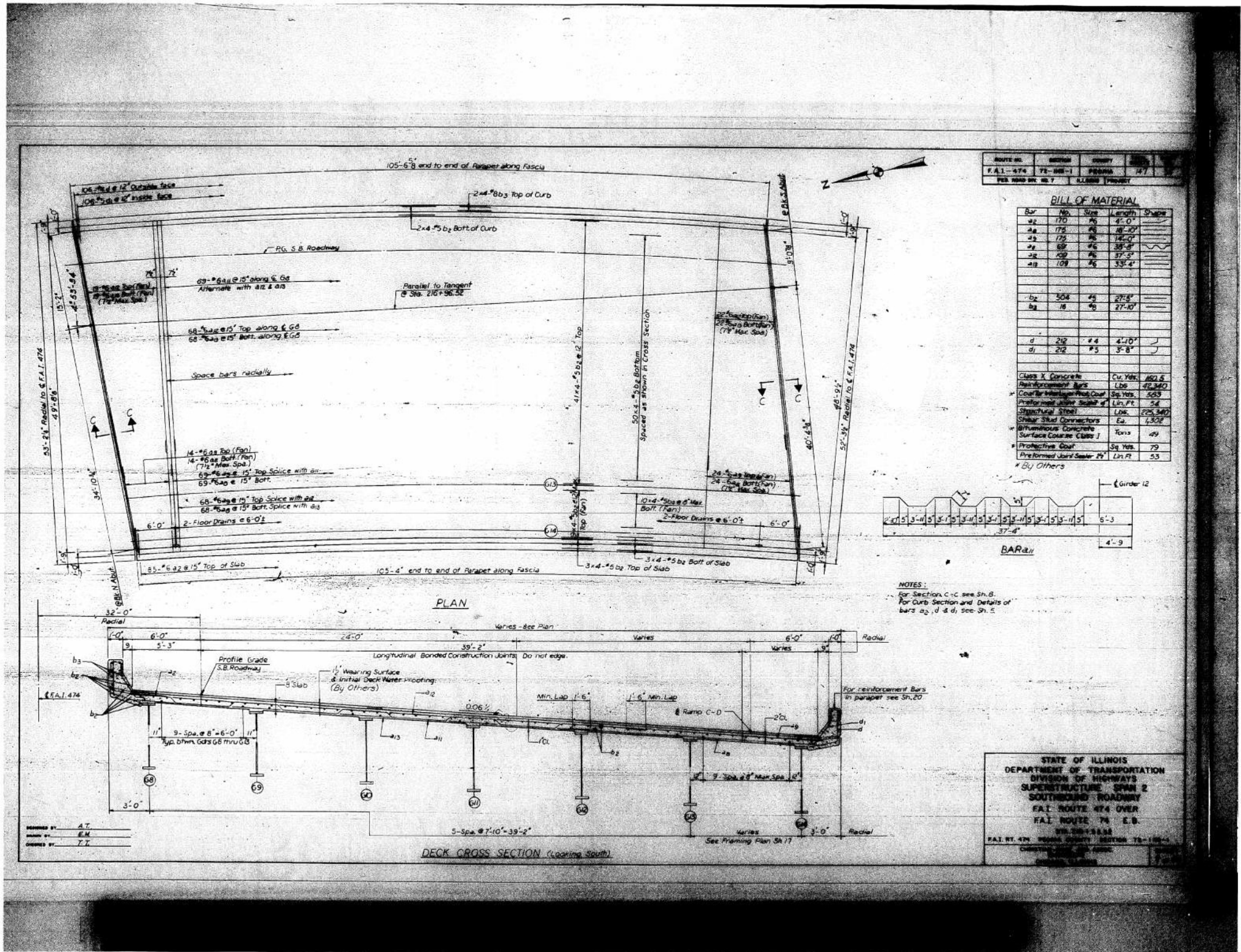
SN 072-0108 & 072-0109

USER NAME = ebb	DESIGNED -	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 6 & 7 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -		RTE.			D4 BRIDGE PAINTING 2024		60	37	
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISED -				* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
PLOT DATE = 8/25/2023	DATE -	REVISED -				ILLINOIS			FED. AID PROJECT	

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FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



SN 072-0108 & 072-0109

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -
PLOT DATE = 8/25/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

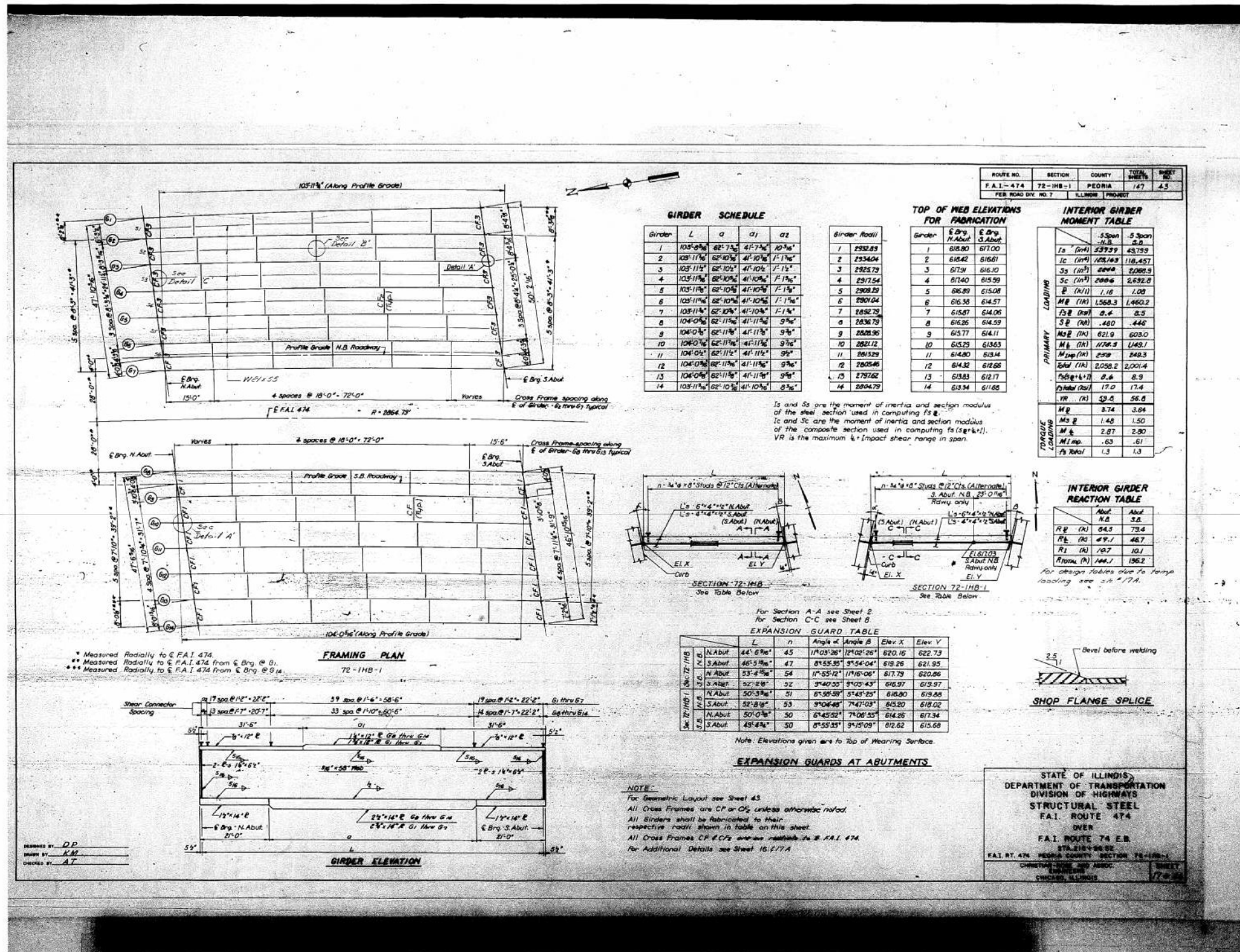
LOCATION 6 & 7 - STRUCTURE INFORMATION

SCALE: N/A SHEET 3 OF 10 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	38
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



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SN 072-0108 & 072-0109

USER NAME = ebb PLOT SCALE = 0.8833' / in. PLOT DATE = 8/25/2023	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 6 & 7 - STRUCTURE INFORMATION SCALE: N/A SHEET 4 OF 10 SHEETS STA. N/A TO STA. N/A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>F.A. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>VAR</td> <td>D4 BRIDGE PAINTING 2024</td> <td></td> <td>60</td> <td>39</td> </tr> </table> <p style="font-size: small;">* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN ILLINOIS FED. AID PROJECT</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	VAR	D4 BRIDGE PAINTING 2024		60	39
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.											
VAR	D4 BRIDGE PAINTING 2024		60	39											

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)

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

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-474	72-118	Peoria	187	44

SHEET NO. 17A				
16 SHEETS				

DETAIL B

CROSS FRAME CF2
30\"/>

NORTH BOUND PDWY SEC. 72-118-1
TOP OF STRINGER (W21x55) ELEVATIONS

Stringer	A	B	C	D	E	F
Stringer 1	618.75	618.59	619.40	619.07	617.79	617.34
Stringer 2	618.30	618.14	617.93	617.68	617.34	616.96
Stringer 3	617.79	617.63	617.42	617.17	616.88	616.53
Stringer 4	617.29	617.12	616.91	616.67	616.38	616.05
Stringer 5	616.77	616.61	616.40	616.16	615.87	615.54
Stringer 6	616.26	616.10	615.89	615.64	615.36	615.03

(For Fabrication Only)

DETAIL C

BEG. STIFFENERS & CROSS FRAME CFs
12\"/>

NORTH BOUND PDWY SEC. 72-118
TOP OF STRINGER (W21x55) ELEVATIONS (For Fabrication Only)

Stringer	A	B	C	D	E	F
Stringer 1	621.58	621.49	621.38	621.17	621.02	620.82
Stringer 2	621.28	621.21	621.11	620.98	620.77	620.60
Stringer 3	620.86	620.78	620.68	620.56	620.39	620.18
Stringer 4	620.43	620.36	620.26	620.13	619.96	619.75
Stringer 5	620.01	619.93	619.83	619.71	619.54	619.33
Stringer 6	619.58	619.51	619.41	619.28	619.11	618.90

Note: Top of stringer elevations are adjusted for the deflection of main girders due to the weight of concrete only.

INTERIOR GIRDER MOMENT TABLE (For Temporary Loading)

Span	M.B.	M.B.	M.B.
1st	140	110	1225
2nd	110	137	7610
3rd	60	0.233	0.247
4th	11	325	304
5th	11	166	1769
6th	11	349	308
7th	11	2290	2881
8th	11	18.34	18.91

INTERIOR GIRDER REACTION TABLE FOR TEMPORARY LOADING

Span	Sec. 72-118	Sec. 72-118-1
1st	71.0	76.0
2nd	59.0	70.1
3rd	15.0	17.1
4th	155.0	171.6

Note: The above design data tables do not include the stresses due to curvature.

STRUCTURAL STEEL IDENTIFYING POINT SECTIONS TO 72-118-1

DESIGNED	Ray G.K.	EXAMINED	
CHECKED	<i>[Signature]</i>	PASSED	
DRAWN	Derringer	APPROVED	
CHECKED			

SN 072-0108 & 072-0109

MODEL D:\p\... FILE NAME: P:\Galesburg\211\... 2024 Bridge\Transportation\68179 Bridge\Painting\0468109-Str-Bridge\str-bridge\str-bridge.dgn

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PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -
PLOT DATE = 8/25/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

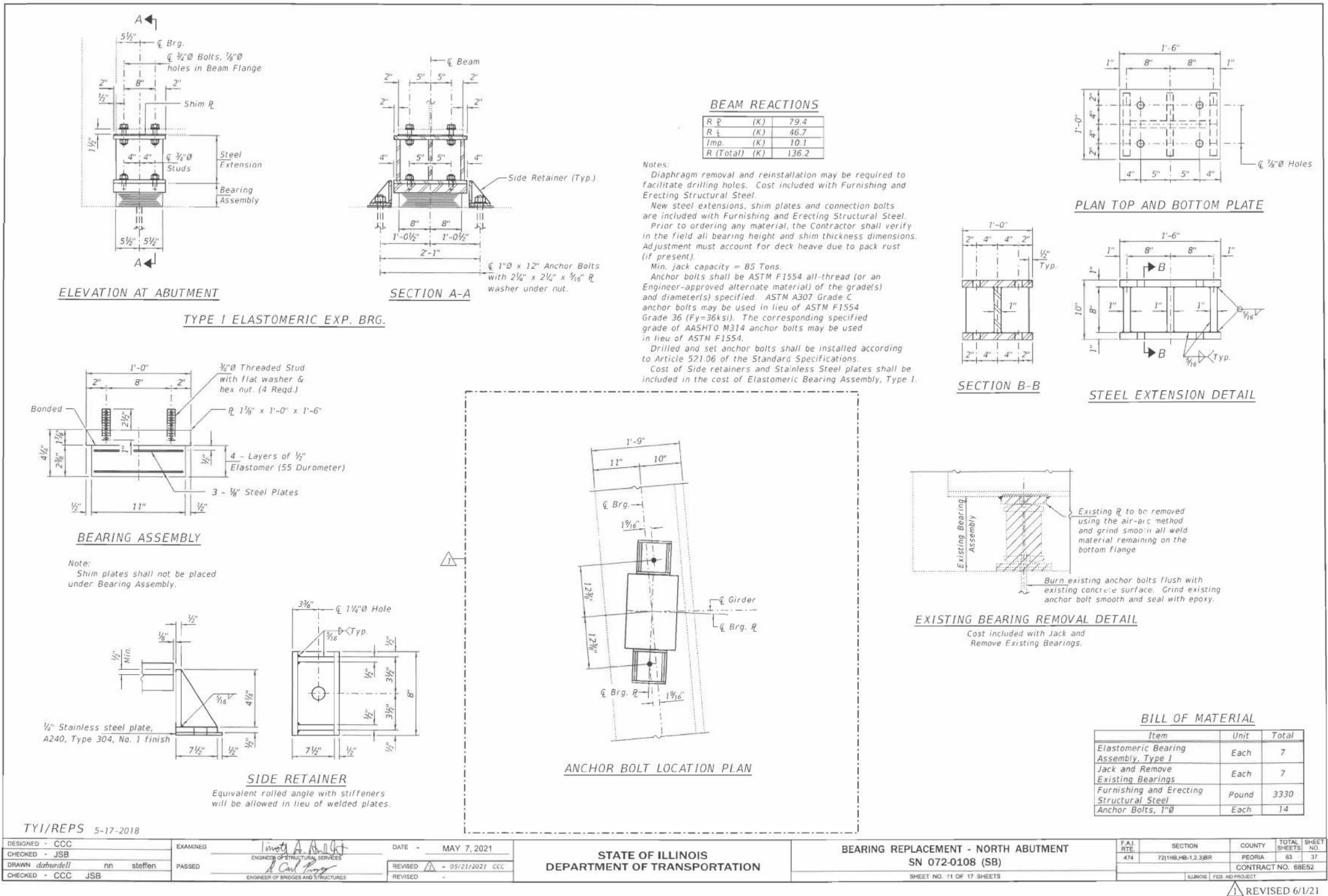
LOCATION 6 & 7 - STRUCTURE INFORMATION

SCALE: N/A SHEET 5 OF 10 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D4 BRIDGE PAINTING 2024		60	40
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



SN 072-0108 & 072-0109

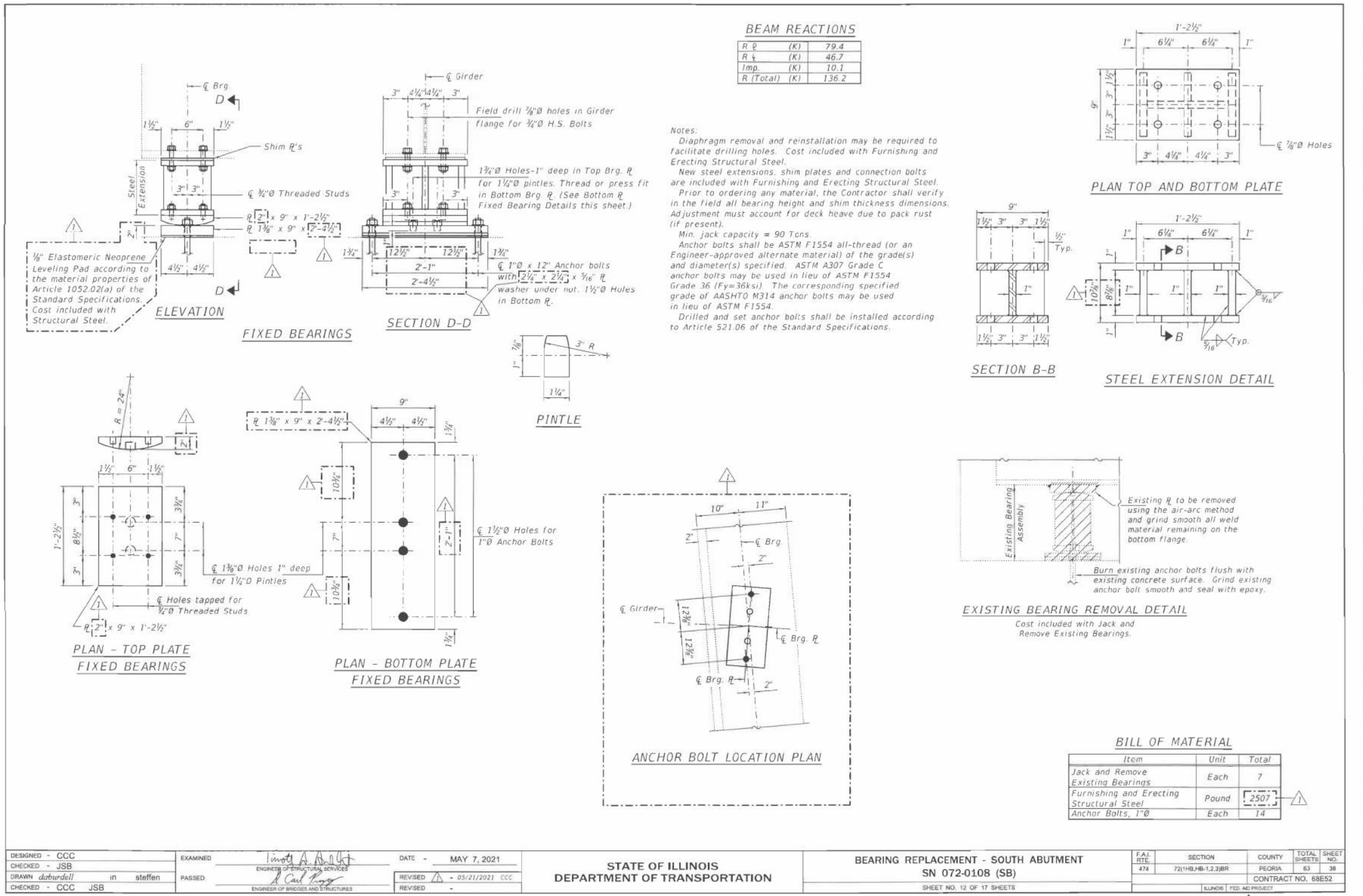
DESIGNED - CCC CHECKED - JSB DRAWN - dshurdell CHECKED - CCC	EXAMINED - <i>[Signature]</i> PASSED - <i>[Signature]</i>	DATE - MAY 7, 2021 REVISED - 9/21/2021 CCC REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
BEARING REPLACEMENT - NORTH ABUTMENT SN 072-0108 (SB)		SHEET NO. 11 OF 17 SHEETS	

MODEL D:\dof\11...
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 DATE: 8/25/2023

USER NAME = ebb PLOT SCALE = 0.8833' / in. PLOT DATE = 8/25/2023	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 6 & 7 - STRUCTURE INFORMATION		SCALE: N/A SHEET 6 OF 10 SHEETS STA. N/A TO STA. N/A	
F.A. RTE. 474 VAR. D4 BRIDGE PAINTING 2024 ILLINOIS FED. AID PROJECT	SECTION 72(11B), HB-1.2.3(BR)	COUNTY PEORIA	TOTAL SHEETS 60 SHEET NO. 41 CONTRACT NO. 68E52 * KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



SN 072-0108 & 072-0109

DESIGNED - CCC	EXAMINED - <i>Justin A. ...</i>	DATE - MAY 7, 2021
CHECKED - JSB	PASSED - <i>Justin A. ...</i>	REVISED - 03/21/2021 CCC
DRAWN - <i>daburdell</i>	in - <i>steffen</i>	REVISOR -
CHECKED - CCC JSB		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT - SOUTH ABUTMENT
SN 072-0108 (SB)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	72(1)HB-1.2.3(B)	PEORIA	63	38
		CONTRACT NO. 68ES2		
ILLINOIS FED. AID PROJECT				

REVISED 6/1/21

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	DRAWN -	REVISIONS -
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISIONS -
PLOT DATE = 8/25/2023	DATE -	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 & 7 - STRUCTURE INFORMATION

SCALE: N/A SHEET 7 OF 10 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	42
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79		
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

LOCATION 6 & 7 – (FAI 474 RMP 1.18 & FAI 474 RMP #109)

ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.

SECTION A-A

BEAM REACTIONS		
R ₁	(K)	84.3
R ₂	(K)	49.1
Imp	(K)	10.7
R (Total)	(K)	144.1

Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 90 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

ANCHOR BOLT LOCATION PLAN

STEEL EXTENSION DETAIL

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL		
Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	7
Jack and Remove Existing Bearings	Each	7
Furnishing and Erecting Structural Steel	Pound	3470
Anchor Bolts, 1"Ø	Each	14

DESIGNED - CCC	EXAMINED - <i>imol A. Smith</i>	DATE - MAY 7, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BEARING REPLACEMENT - NORTH ABUTMENT SN 072-0109 (NB) SHEET NO. 13 OF 17 SHEETS	F.A. RTE. 474 SECTION 721HRJHB-1.2.3(BR) COUNTY PEORIA TOTAL SHEETS 63 SHEET NO. 39 CONTRACT NO. 68E52 ILLINOIS FED. AID PROJECT
CHECKED - JSB	PASSED - <i>Carl Perry</i>	REVISED - 05/21/2021 CCC		
DRAWN - daburdell in steffen	ENGINEER OF STRUCTURAL SERVICES	REVISED -		
CHECKED - CCC JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		

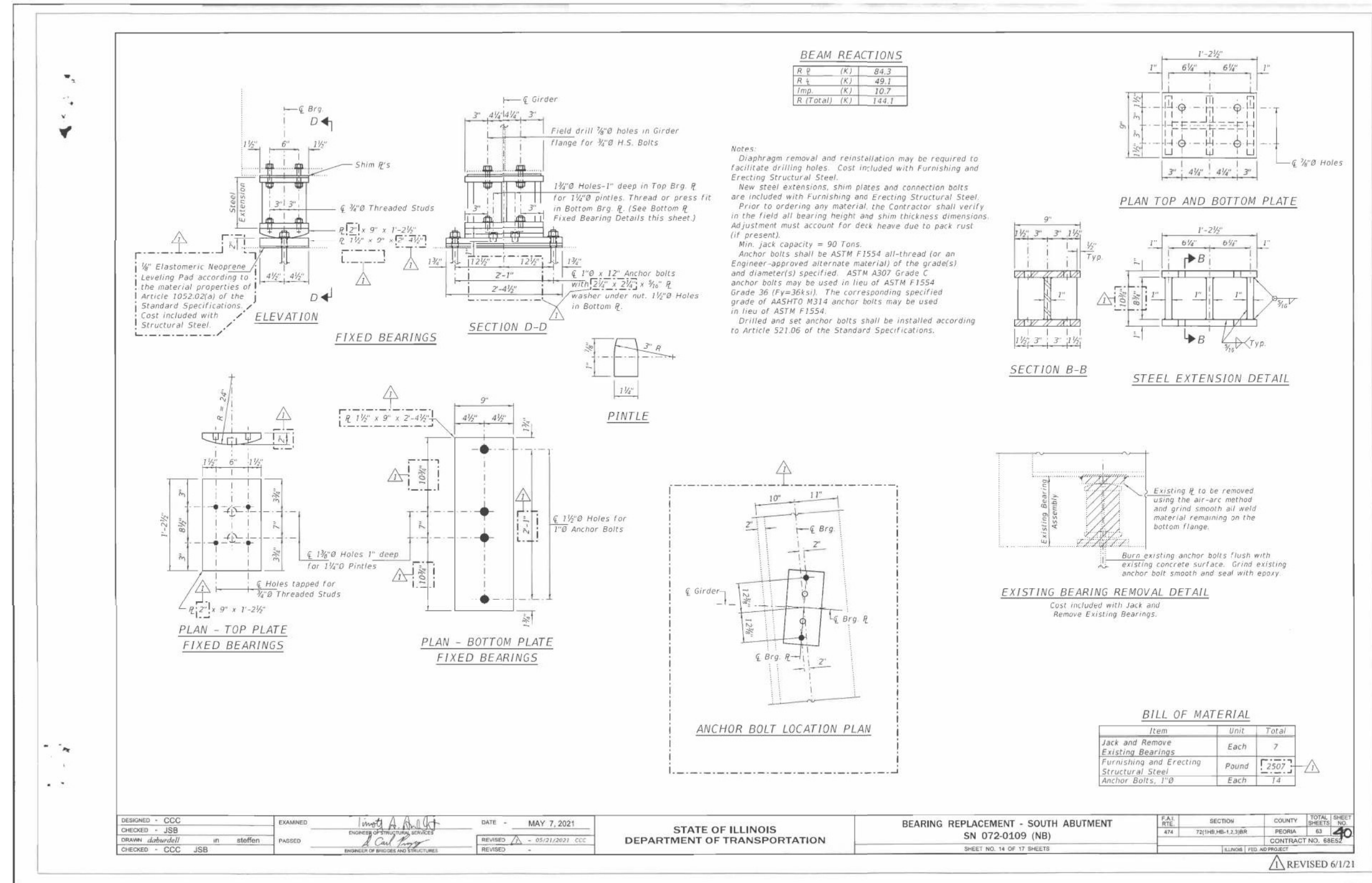
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SN 072-0108 & 072-0109

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 6 & 7 – STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			474	721HRJHB-1.2.3(BR)	PEORIA	63	39	
PLOT SCALE = 0.8833' / in.	CHECKED -	REVISED -			CONTRACT NO. 68E52					
PLOT DATE = 8/25/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

REVISED 6/1/21

FOR INFORMATION ONLY
LOCATION 6 & 7 – (FAI 474 RMP 1.18 & FAI 474 RMP #109)



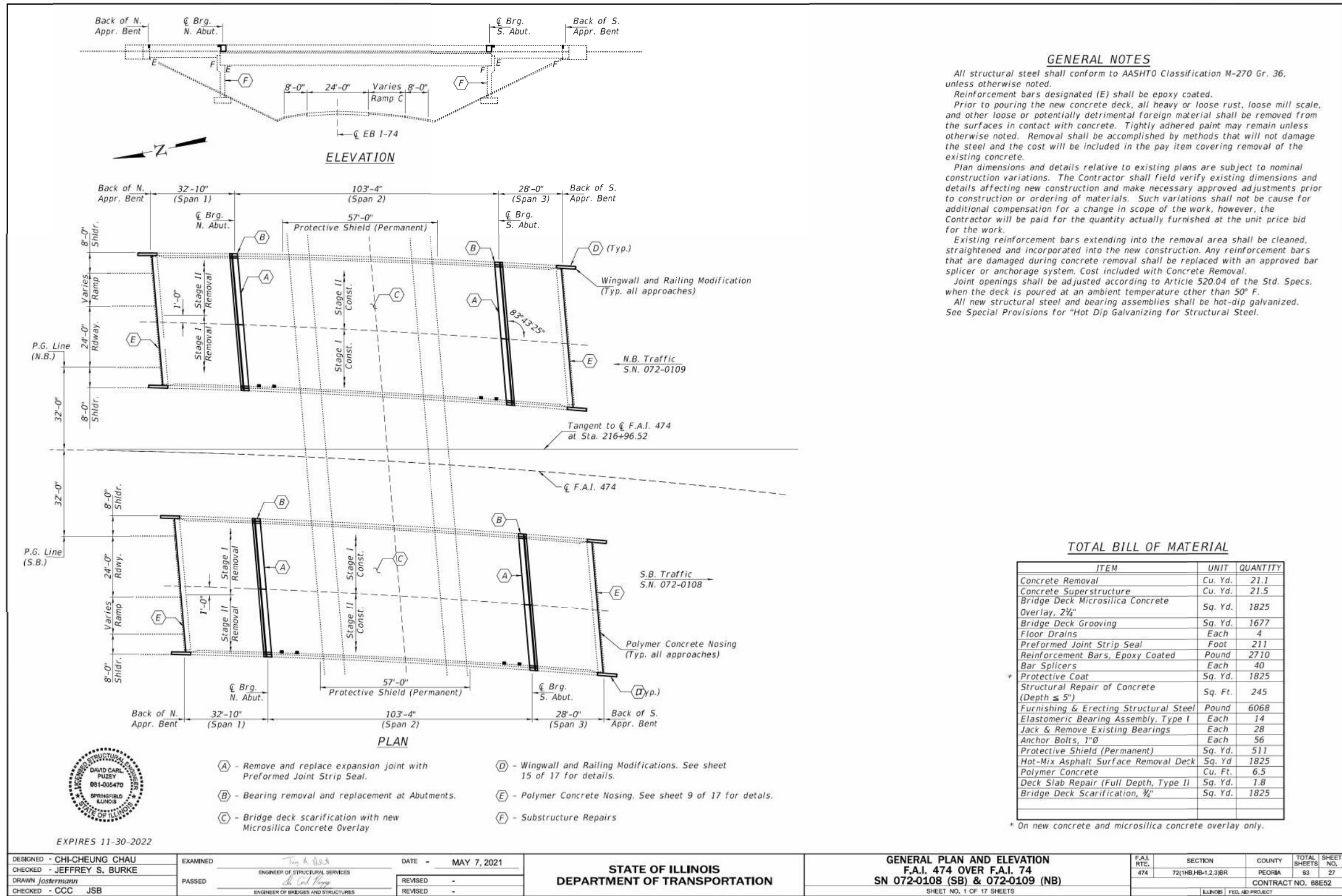
SN 072-0108 & 072-0109

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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 6 & 7 - STRUCTURE INFORMATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -					474	72(1)HB-1.2)BR	PEORIA	63	40
PLOT DATE = 8/25/2023	CHECKED -	REVISED -					KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68E52		
			SCALE: N/A	SHEET 9 OF 10 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

LOCATION 6 & 7 - (FAI 474 RMP 1.18 & FAI 474 RMP #109)



GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

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

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

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	21.1
Concrete Superstructure	Cu. Yd.	21.5
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	1825
Bridge Deck Grooving	Sq. Yd.	1677
Floor Drains	Each	4
Preformed Joint Strip Seal	Foot	211
Reinforcement Bars, Epoxy Coated	Pound	2710
Bar Splicers	Each	40
Protective Coat	Sq. Yd.	1825
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	245
Furnishing & Erecting Structural Steel	Pound	6068
Elastomeric Bearing Assembly, Type I	Each	14
Jack & Remove Existing Bearings	Each	28
Anchor Bolts, 1"Ø	Each	56
Protective Shield (Permanent)	Sq. Yd.	511
Hot-Mix Asphalt Surface Removal Deck	Sq. Yd.	1825
Polymer Concrete	Cu. Ft.	6.5
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.8
Bridge Deck Scarification, 3/4"	Sq. Yd.	1825

* On new concrete and microsilica concrete overlay only.

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SN 072-0108 & 072-0109

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 6 & 7 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -		SCALE: N/A	SHEET 10 OF 10 SHEETS	STA. N/A	TO STA. N/A	60	45
PLOT DATE = 8/25/2023	CHECKED -	REVISED -						* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN CONTRACT NO. 68H79	
	DATE -	REVISED -						ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 8 – (US 24 & IL 9)

Bench Mark: Brass Disk in Concrete Monument stamped "Peoria County G.I.S. Monument" on East Side of Cameron Lane next to a Red Witness Post at Station 335+82.62, 310.12' Right. Elevation 462.45

Existing Structure: S.N. 072-0010 was originally built in 1955 as S.B.I. Route 9, Section 45-R-B. The 1955 superstructure (current eastbound superstructure) consists of 3 span continuous variable depth reinforced concrete beams. In 1975 the bridge was rehabilitated and widened using 3 simple spans, PPC Deck Beams. In 2002 or 2003 a 5" concrete wearing surface was placed on the westbound lanes. In 2007 the bridge was rehabilitated and 9 PPC Deck Beams were replaced. The substructure consists of spill-thru pile supported abutments and solid piers (partly pile supported and partly spread footings). 203'-2" back to back abutments and 92'-10" out-to-out of deck. Structure will be removed and replaced using stage construction.

No salvage

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications
with 2008 & 2009 Interims

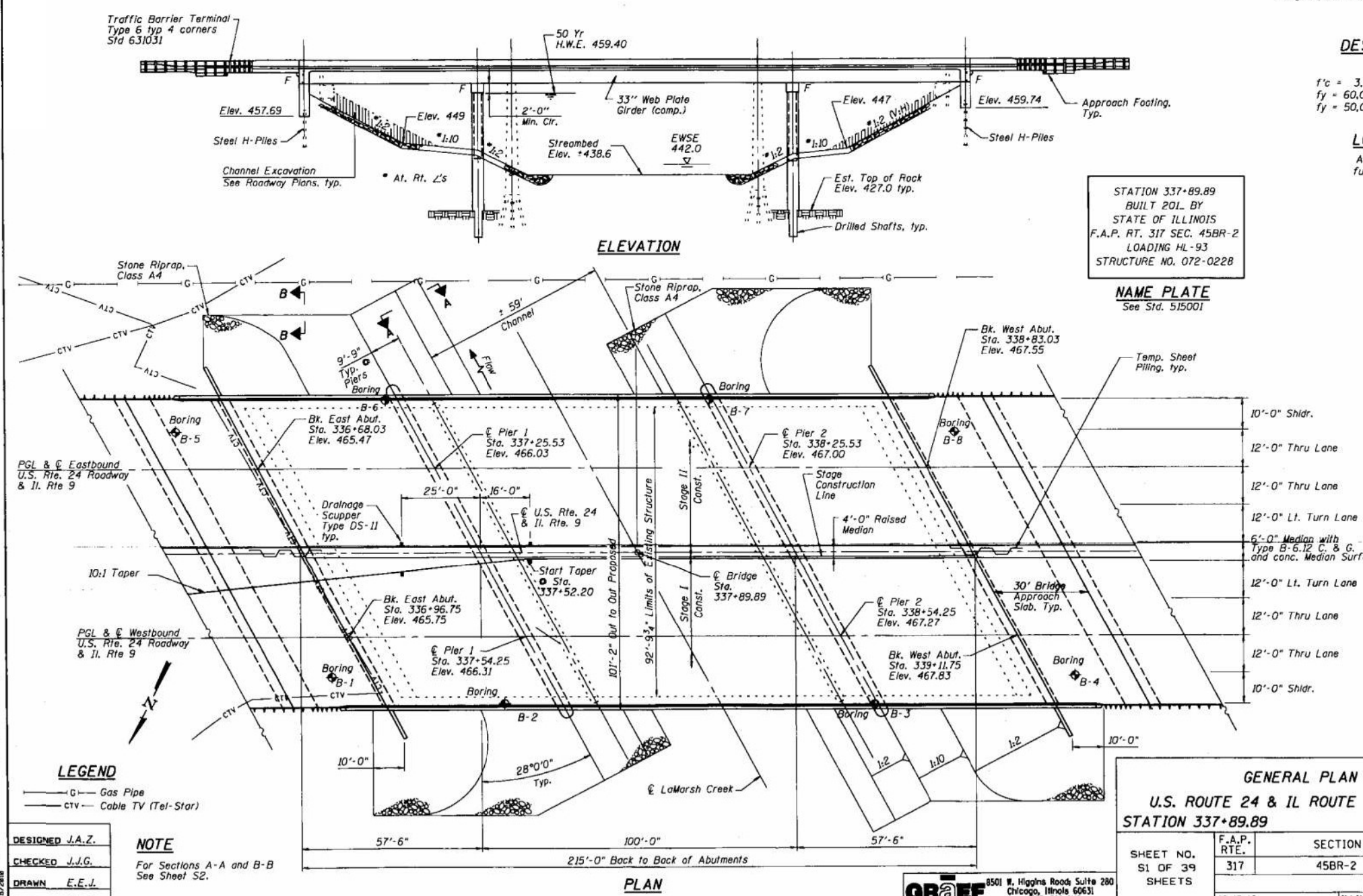
SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{pl}) = 0.12g
Design Spectral Acceleration at 0.2 sec. (S_{ps}) = 0.18g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50W)

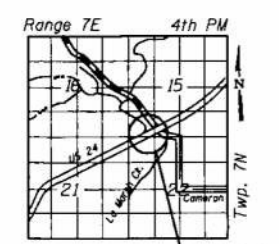
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface



STATION 337+89.89
BUILT 20L BY
STATE OF ILLINOIS
F.A.P. RT. 317 SEC. 45BR-2
LOADING HL-93
STRUCTURE NO. 072-0228

NAME PLATE
See Std. 515001



LOCATION SKETCH

APPROVED
For Structural Adequacy Only

Robert E. Anderson
Engineer of Bridges & Structures (TS)



DATE: 11/30/2012

LEGEND
G — Gas Pipe
CTV — Cable TV (Tel-Star)

DESIGNED J.A.Z.
CHECKED J.J.G.
DRAWN E.E.V.
CHECKED J.A.Z.

NOTE
For Sections A-A and B-B
See Sheet S2.

GENERAL PLAN & ELEVATION
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK
STATION 337+89.89 STRUCTURE NO. 072-0228

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S1 OF 39 SHEETS	317	45BR-2	PEORIA	122	49
10-15-10 ILLINOIS FED. AID PROJECT				CONTRACT NO. 68719	

SN 072-0228

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 – STRUCTURE INFORMATION

SCALE: N/A SHEET 1 OF 6 SHEETS STA. N/A TO STA. N/A

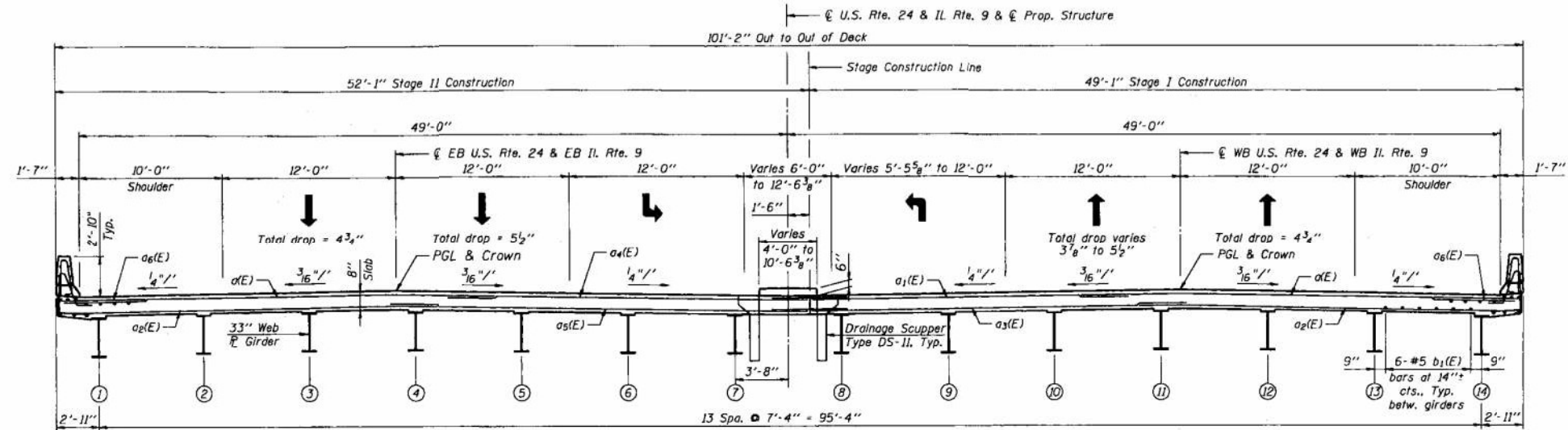
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	46
KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS		FED. AID PROJECT		

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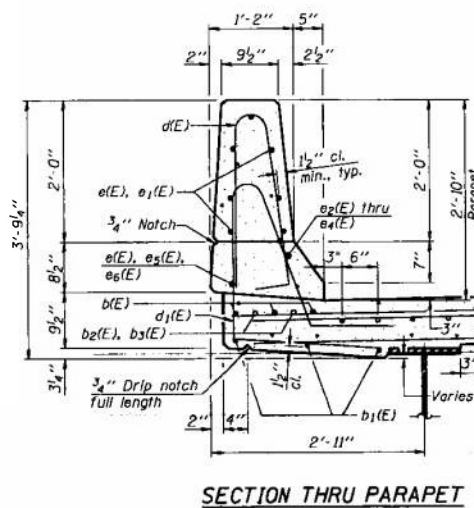
FOR INFORMATION ONLY

LOCATION 8 - (US 24 & IL 9)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

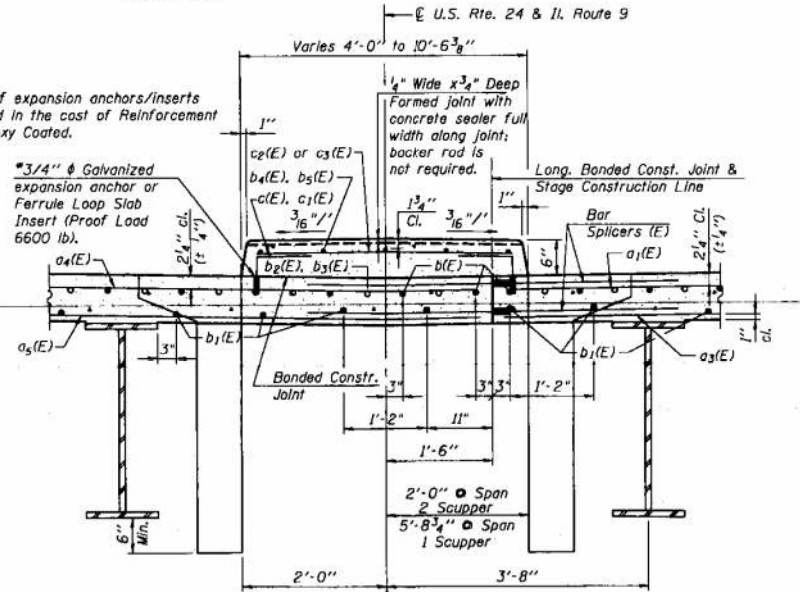


CROSS SECTION
(Looking West)



MINIMUM BAR LAP
#5 bar = 3'-3"
#6 bar = 3'-1"

* The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars. Epoxy Coated.



SECTION THRU MEDIAN
(Looking West)

DETAIL AT SCUPPER
(See Note 3)

- NOTES**
- See Sheet S16 of 39 for deck details, parapet reinforcement, and Bill of Material.
 - The raised Median is to be constructed in Stage III. See Sheet S3 of 39 for Construction Staging.
 - Cut longitudinal reinforcement to clear drainage scuppers.

DECK CROSS SECTION		U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK		STATION 337+89.89		STRUCTURE NO. 072-0228	
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
S15 OF 39	317	45BR-2	PEORIA	122	63		
						CONTRACT NO. 68719	
			ILLINOIS		FED. AID PROJECT		

GRÄEF 8501 N. Higgins Road Suite 280
Chicago, Illinois 60631
(773) 399-0112

DESIGNED	E.E.J.
CHECKED	J.J.G.
DRAWN	E.E.J.
CHECKED	J.J.G.

SN 072-0228

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION

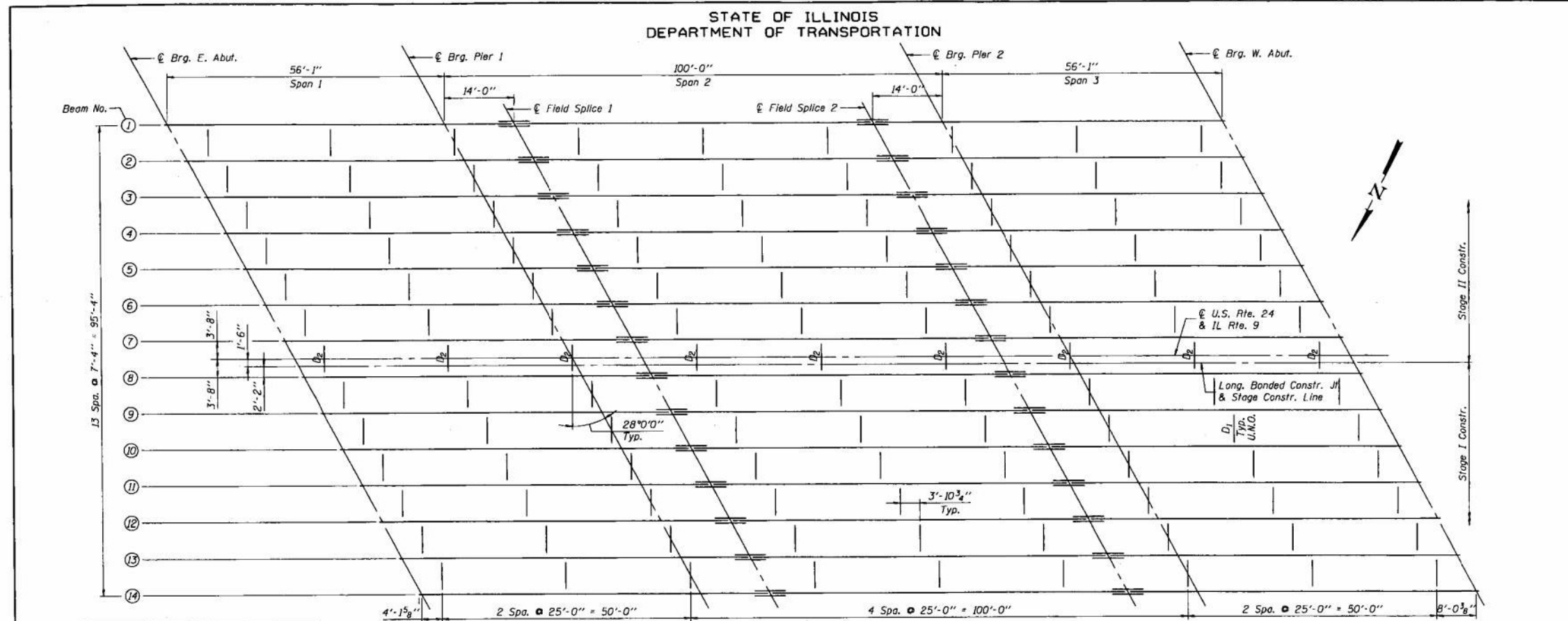
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	47
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN				CONTRACT NO. 68H79
ILLINOIS			FED. AID PROJECT	

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FOR INFORMATION ONLY

LOCATION 8 - (US 24 & IL 9)



HL 93 Loading		
	Abut.	Pier
RDC1 (k)	12.32	83.01
RDC2 (k)	1.39	1.72
R _{DW} (k)	5.46	30.28
R _{L + Imp} (k)	79.56	124.48
R _{Total} (k)	98.73	245.50

	0.4 Sp. 1 & 0.6 Sp. 3	Pier 1 & Pier 2	0.5 Span 2
I _s (in ⁴)	6,437	12,029	7,266
I _c (in ⁴)	17,397	-	20,511
I _s (3n) (in ⁴)	13,311	-	15,415
S _x (in ³)	373	668	453
S _x (n) (in ³)	535	-	642
S _x (3n) (in ³)	493	-	594
Z (in ³)	-	740	-
DC1 (k/ft)	0.871	0.932	0.881
MDC1 (k)	87.1	702	407
DC2 (k/ft)	0.086	0.086	0.086
MDC2 (k)	11.2	57.9	49.7
DW (k/ft)	0.336	0.336	0.336
M _{DW} (k)	44.4	226	196
M _{L + Imp} (k)	680	810	1,092
M _s (Strength I) (k)	1,324	2,705	2,776
M _s (Service II) (k)	2,851	3,084	3,165
I _s DC1 (ksi)	2.80	12.61	10.78
I _s DC2 (ksi)	0.27	1.04	1.01
I _s DW (ksi)	1.08	4.05	3.96
I _s L _{3(L+I)} (ksi)	19.82	18.90	26.52
I _s (Service II) (ksi)	23.97	36.60	42.27
I _s (Total Strength I) (ksi)	32.14	48.57	-
V _r (k)	55.5	-	47.8

- I_s, S_x Non-composite moment of inertia and section modulus of the steel section used for computing I_s (Total-Strength I, and Service II) due to non-composite dead loads.
- I_c(n), S_c(n) Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing I_s (Total-Strength I, and Service II) due to short-term composite live loads.
- I_c(3n), S_c(3n) Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing I_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads.
- Z Plastic Section Modulus of the steel section in non-composite areas.
- DC1 Un-factored non-composite dead load.
- MDC1 Un-factored moment due to non-composite dead load.
- DC2 Un-factored long-term composite (superimposed excluding future wearing surface) dead load.
- MDC2 Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load.
- DW Un-factored long-term composite (superimposed future wearing surface only) dead load.
- M_{DW} Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load.
- M_{L + Imp} Un-factored live load moment plus dynamic load allowance (Impact).

- M_s(Strength I) Factored design moment. 1.25 (M_{DC1} + M_{DC2}) + 1.5M_{DW} + 1.75M_{LL + Imp}
- φ_tM_n Compact composite positive moment capacity computed according to Article 6.10.7.1.
- φ_tM_{nc} Compact non-composite negative moment capacity computed according to Article A6.1.1.
- f_s(Service II) Sum of stresses as computed from the moments below. M_{DC1} + M_{DC2} + M_{DW} + 1.3M_{LL + Imp}
- f_s(Total Strength I) Sum of stresses as computed from the moments below on non-compact section. 1.25 (M_{DC1} + M_{DC2}) + 1.5M_{DW} + 1.75M_{LL + Imp}
- V_r Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

- NOTES**
- Two hardened washers required for each set of oversized holes at diaphragms.
 - All Structural Steel on this sheet shall be AASHTO M270 Grade 50W.
 - All diaphragms shall be installed as steel I's erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

DESIGNED J.Z.
CHECKED J.A.Z.
DRAWN R.B.H.
CHECKED J.A.Z.

FRAMING PLAN

FRAMING PLAN
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK
STATION 337+89.89 STRUCTURE NO. 072-0228

SHEET NO. S21 OF 39 SHEETS	F.A.P. RTE. 317	SECTION 45BR-2	COUNTY PEORIA	TOTAL SHEETS 122	SHEET NO. 69
CONTRACT NO. 68719			ILLINOIS FED. AID PROJECT		

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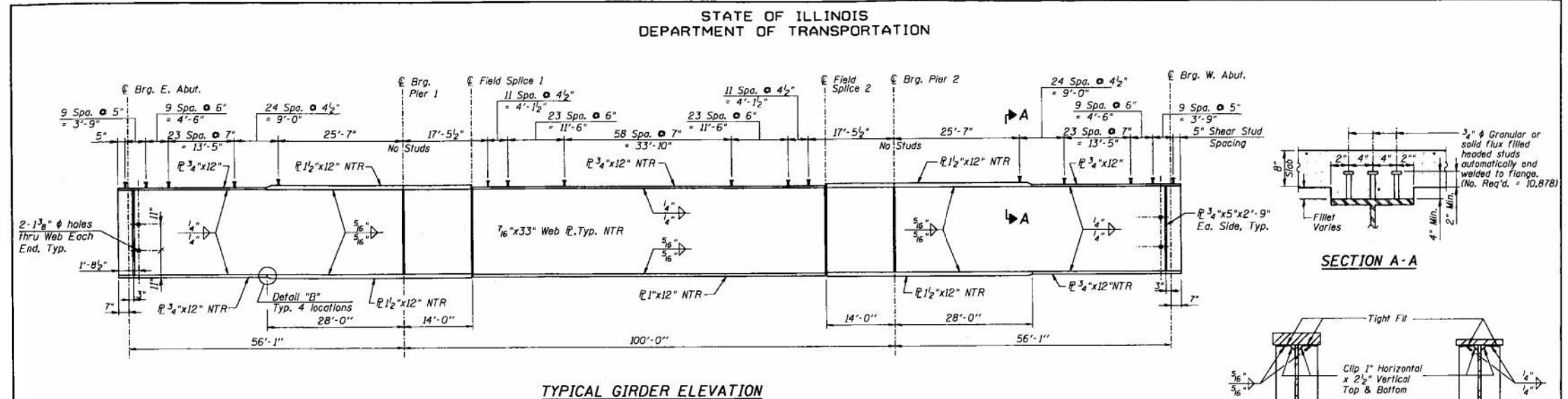
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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS	LOCATION 8 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: N/A	SHEET 3 OF 6 SHEETS	STA. N/A	TO STA. N/A	60	48
PLOT DATE = 8/25/2023	CHECKED -	REVISED -						ILLINOIS	FED. AID PROJECT

FOR INFORMATION ONLY

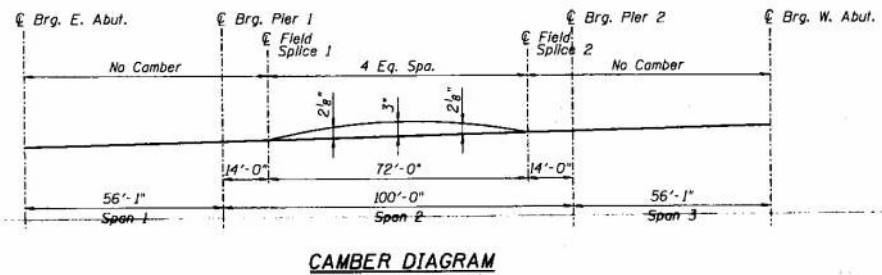
LOCATION 8 - (US 24 & IL 9)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

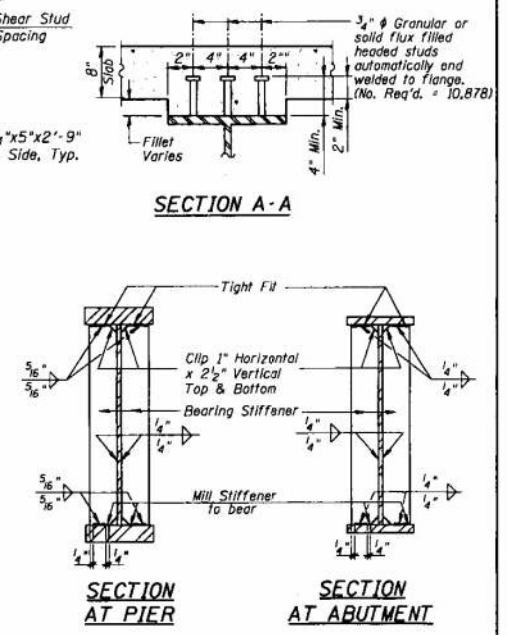


TYPICAL GIRDER ELEVATION

TOP OF GIRDER WEB ELEVATIONS (For Fabrication only)						
Girder No.	€ Brg. E. Abut.	€ Brg. Pier 1	€ Splice 1	€ Splice 2	€ Brg. Pier 2	€ Brg. W. Abut.
1	464.17	464.69	464.82	465.51	465.66	466.23
2	464.37	464.88	465.01	465.71	465.85	466.42
3	464.52	465.04	465.17	465.86	466.01	466.58
4	464.64	465.15	465.28	465.98	466.12	466.69
5	464.56	465.07	465.20	465.90	466.04	466.61
6	464.46	464.98	465.10	465.80	465.94	466.52
7	464.35	464.86	464.99	465.69	465.83	466.40
8	464.38	464.90	465.03	465.72	465.87	466.44
9	464.57	465.09	465.22	465.91	466.06	466.63
10	464.75	465.26	465.39	466.09	466.23	466.80
11	464.90	465.41	465.54	466.24	466.38	466.96
12	464.86	465.38	465.51	466.20	466.35	466.92
13	464.78	465.30	465.42	466.12	466.26	466.84
14	464.67	465.18	465.31	466.00	466.15	466.72



CAMBER DIAGRAM



- NOTES**
- Work this Sheet with Sheet S21 & S23 of 39.
 - Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
 - All Structural Steel on this Sheet shall be AASHTO M270 Grade 50W Steel.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	10,878

GIRDER ELEVATION
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK
STATION 337+89.89 STRUCTURE NO. 072-0228

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S22 OF 39 SHEETS	317	45BR-2	PEORIA	122	70
				CONTRACT NO. 68719	
			ILLINOIS FED. AID PROJECT		

GRÄEF 8501 N. Higgins Road Suite 200
Chicago, Illinois 60631
(773) 399-0112

DESIGNED J.Z.
CHECKED J.A.Z.
DRAWN S.R.K.
CHECKED J.A.Z.

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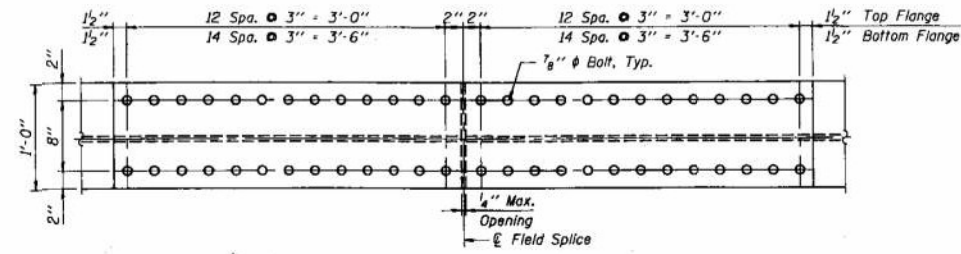
SN 072-0228

USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LOCATION 8 - STRUCTURE INFORMATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ebb	-	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LOCATION 8 - STRUCTURE INFORMATION		317	D4 BRIDGE PAINTING 2024	PEORIA	60	49
					SCALE: N/A SHEET 4 OF 6 SHEETS STA. N/A TO STA. N/A		KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68719		
							ILLINOIS		FED. AID PROJECT		

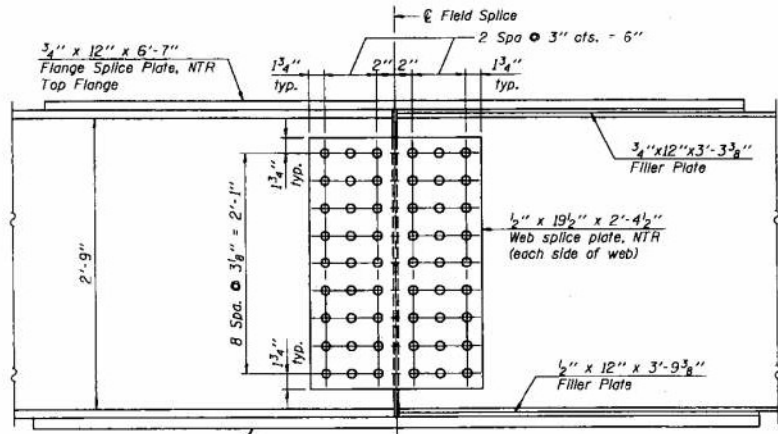
FOR INFORMATION ONLY

LOCATION 8 – (US 24 & IL 9)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



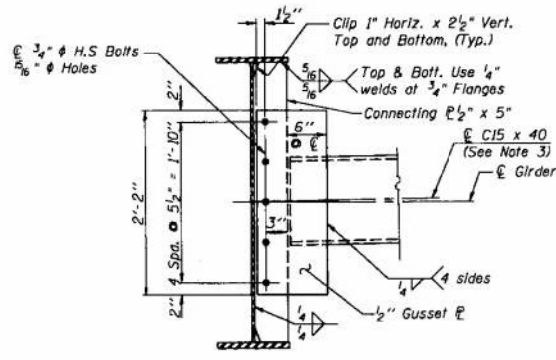
FLANGE SPLICE



WEB SPLICE

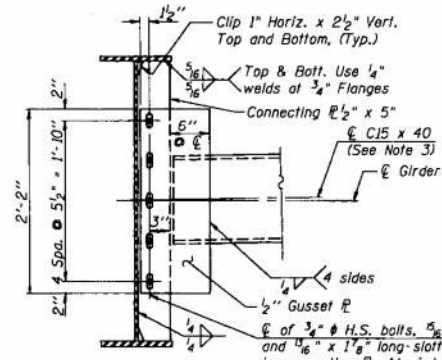
FIELD SPLICES 1 & 2

(Looking South at Field Splice 1
Looking North at Field Splice 2)



INTERIOR DIAPHRAGM - D1

(108 Required)



INTERIOR DIAPHRAGM - D2

(9 Required)

NOTES

1. All Structural Steel on this Sheet shall be AASHTO M270 Grade 50W.
2. Two hardened washers are required for each set of oversized holes.
3. Alternate C15x50 diaphragm channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40. The alternate, if utilized, shall be provided at no extra cost to the Department.

FIELD SPLICES AND DIAPHRAGM DETAILS					
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK					
STATION 337+89.89			STRUCTURE NO. 072-0228		
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S23 OF 39 SHEETS	317	45BR-2	PEORIA	122	71
			CONTRACT NO. 68719		
		ILLINOIS FED. AID PROJECT			

DESIGNED	J.A.Z.
CHECKED	J.A.Z.
DRAWN	R.B.H.
CHECKED	J.A.Z.

GR&E 8501 N. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

SN 072-0228

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 – STRUCTURE INFORMATION

SCALE: N/A SHEET 5 OF 6 SHEETS STA. N/A TO STA. N/A

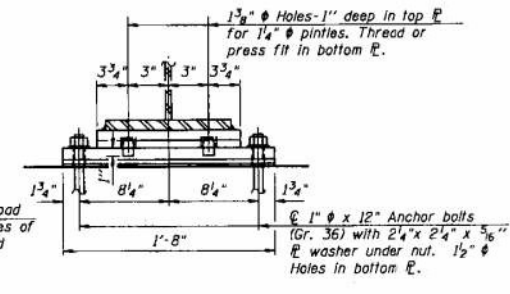
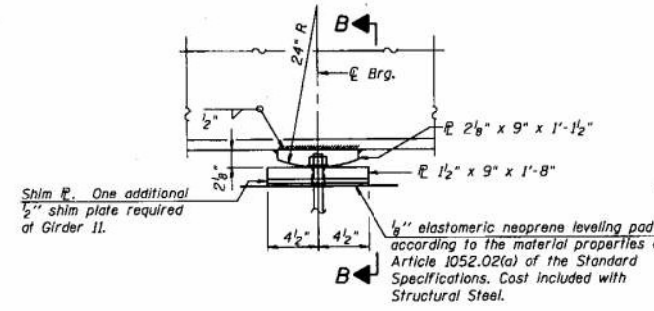
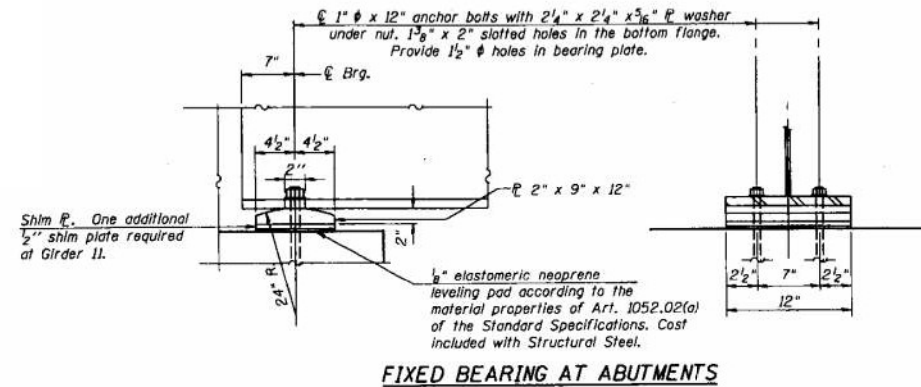
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	50
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
		ILLINOIS FED. AID PROJECT		

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 18/11/2018

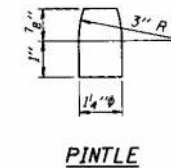
FOR INFORMATION ONLY

LOCATION 8 – (US 24 & IL 9)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FIXED BEARING AT PIERS



NOTES:

1. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
2. Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
3. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
4. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.
5. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

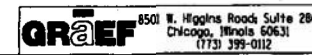
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	112

BEARING DETAILS

U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK
STATION 337+89.89 STRUCTURE NO. 072-0228

SHEET NO. S24 OF 39 SHEETS	F.A.P. RTE. 317	SECTION 45BR-2	COUNTY PEORIA	TOTAL SHEETS 122	SHEET NO. 72
CONTRACT NO. 68719					
10-15-10		ILLINOIS FED. AID PROJECT			



DESIGNED J.Z.
CHECKED J.A.Z.
DRAWN R.B.H.
CHECKED J.A.Z.

SN 072-0228

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 8 – STRUCTURE INFORMATION

SCALE: N/A SHEET 6 OF 6 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D4 BRIDGE PAINTING 2024		60	51
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN				CONTRACT NO. 68H79
ILLINOIS FED. AID PROJECT				

MODEL D:\p\11\Galesburg\21\11\210881\DDT - DIST 4 - PTB 201-832\Work Order 20 - FY 2024 Bridge\Transportation\68719 Bridge Painting\0468H79-Str-bridgepainting.dgn
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FOR INFORMATION ONLY LOCATION 9 - (US 150)

Bench Mark: "B" on top of S.E. Parapet of U.S. Route 150 Bridge over Mud Creek
Elev. 720.58
Existing Structure: 090-0043 Built as S.B.I. Rte. 9 Section 6 BR @ Sta. 340+54.05
in 1955. The existing structure is 3 Span, 108'-4" Bk. to Bk. and 35'-8" Out
to Out. The existing superstructure deck shall be removed and replaced with
a new deck. Existing beams shall be retained in the new work. Existing
structure shall be closed during construction.

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

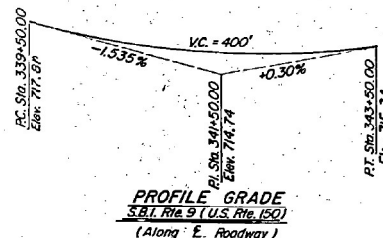
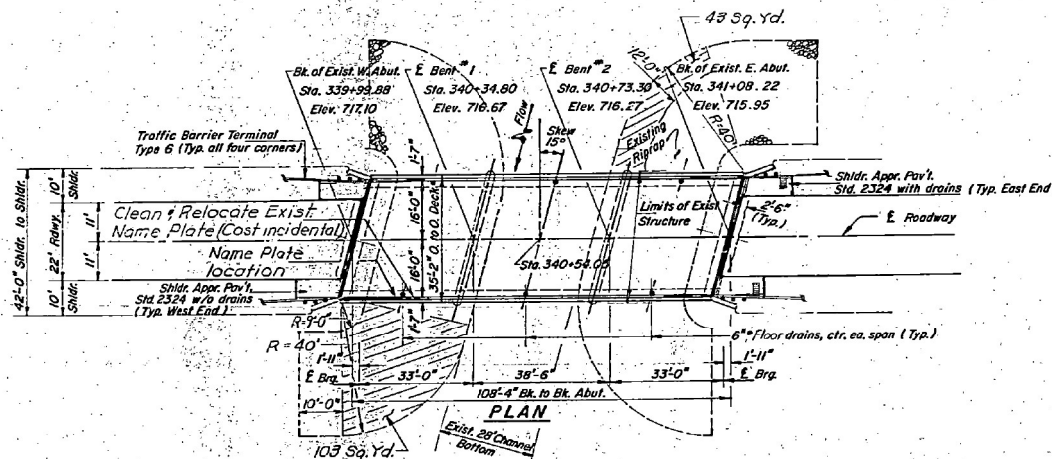
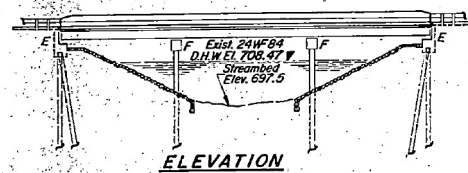
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
150	090-1	Tazewell	16	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 1
7 SHEETS

GENERAL NOTES

Expansion joint structural steel shall be shop painted with one coat of red lead paint and one coat of aluminum paint, both coats to be applied in the shop.
Field welding or construction accessories will not be permitted in the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
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.
All existing structural steel shall be cleaned by Method II, spot painted with red lead paint and given two complete field coats of aluminum paint.
Layout of broken concrete riprap may be varied in the field to suit ground conditions as directed by the Engineer.
The cost of removal of existing metal railing is incidental to "Removal of Existing Concrete Deck."

STATION 340+54.05
BUILT BY
STATE OF ILLINOIS
S.B.I. RT. 9 SEC. GBR-1
LOADING HS 20
STR. NO. 090-0043
NAME PLATE
See Std. 2113



Note: Hatched areas indicate areas requiring Broken Concrete Riprap.
The cost of any fill required under the riprap to repair the embankment cone shall be incidental to the cost of Broken Concrete Riprap.

WATERWAY INFORMATION

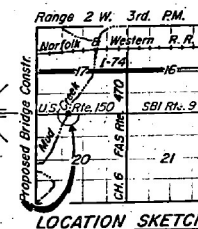
Drainage Area = 22.3 sq. mi.		Low Grade Elev. 715.5		@ Sta.	
Flood	Yr.	Opening	Not.	Head-Fr.	Headwater-EI.
	C.F.S.	Exisl.	Prop.	Exisl.	Prop.
Design	50	2779	503	708.47	0.79 0.79 709.26 709.26
Base	100	3178	528	708.84	0.98 0.98 709.82 709.82
Overlapping					
Max. Calc.	500	4094	583	709.62	1.41 1.41 711.03 711.03

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Concrete Deck	Lump Sum	1		1
Concrete Removal	Cu. Yd.		6	6
Floor Drains	Each	6		6
Protective Coat	Sq. Yd.	467		467
Class X Concrete	Cu. Yd.	113.5	5.2	118.7
Structural Steel	Pound	1970		1970
Reinforcement Bars	Pound		700	700
Reinforcement Bars (Epoxy Coated)	Pound	26230		26230
Name Plates	Each	1		1
Pavement Removal and P.C.C.	Sq. Yd.	13		13
Replacement, Type II, 10"	Lin. Ft.	72		72
Preformed Joint Seal CE"	Lin. Ft.	1		1
Cleaning & Painting Steel Bridge	Lump Sum	1		1
Broken Concrete Riprap	Sq. Yd.		206	206
Repair Concrete Structures	Sq. Ft.		3.5	3.5
Epoxy Mortar Repair	Cu. Ft.		1.2	1.2
Epoxy Crack Sealing	Lin. Ft.		6	6
Structure Excavation	Cu. Yd.		4	4

DESIGN STRESSES

$f_y = 33,000$ psi (exist. structural steel)
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (new Str. Steel AASHTO M-163)
LOADING HS 20-44
Design Specifications: AASHTO (1977) and applicable Interims (1978, thru 1983 Interim Specifications)
Allow 25^{sq.}/sq. ft. for future wearing surface.



GENERAL PLAN

U.S. Rte. 150 Over Mud Creek
S.B.I. Rte. 9 SECTION GBR-1
TAZEWELL COUNTY
Sta. 340+54.05

REEL
4-148

DESIGNED	Pick Brunetta	EXAMINED	July 31 1924
CHECKED		PASSED	
DRAWN	JRS F.M.	APPROVED	
CHECKED			

090-0043

SN 090-0043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

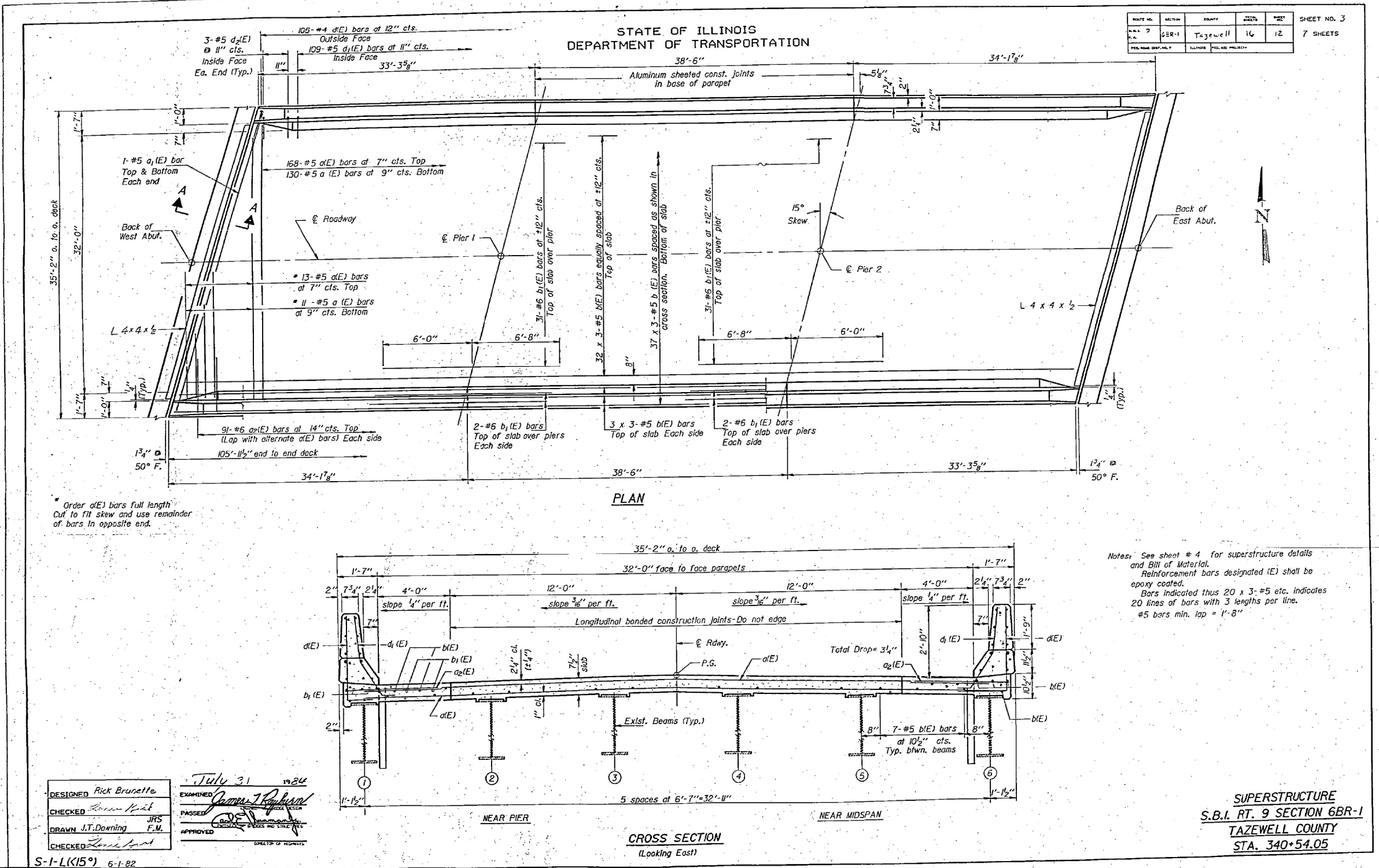
LOCATION 9 - STRUCTURE INFORMATION

SCALE: N/A SHEET 1 OF 5 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2024		60	52
* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
ILLINOIS			FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 9 - (US 150)



* Order d(E) bars full length
Cut to fit skew and use remainder
of bars in opposite end.

Notes: See sheet # 4 for superstructure details
and Bill of Material.
Reinforcement bars designated (E) shall be
epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
#5 bars min. lap = 1'-8"

DESIGNED Rick Brunette
CHECKED *[Signature]*
DRAWN J.T. Downing F.M.
CHECKED *[Signature]*

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*

JULY 31 1984

S-1-L(K15°) 6-1-82

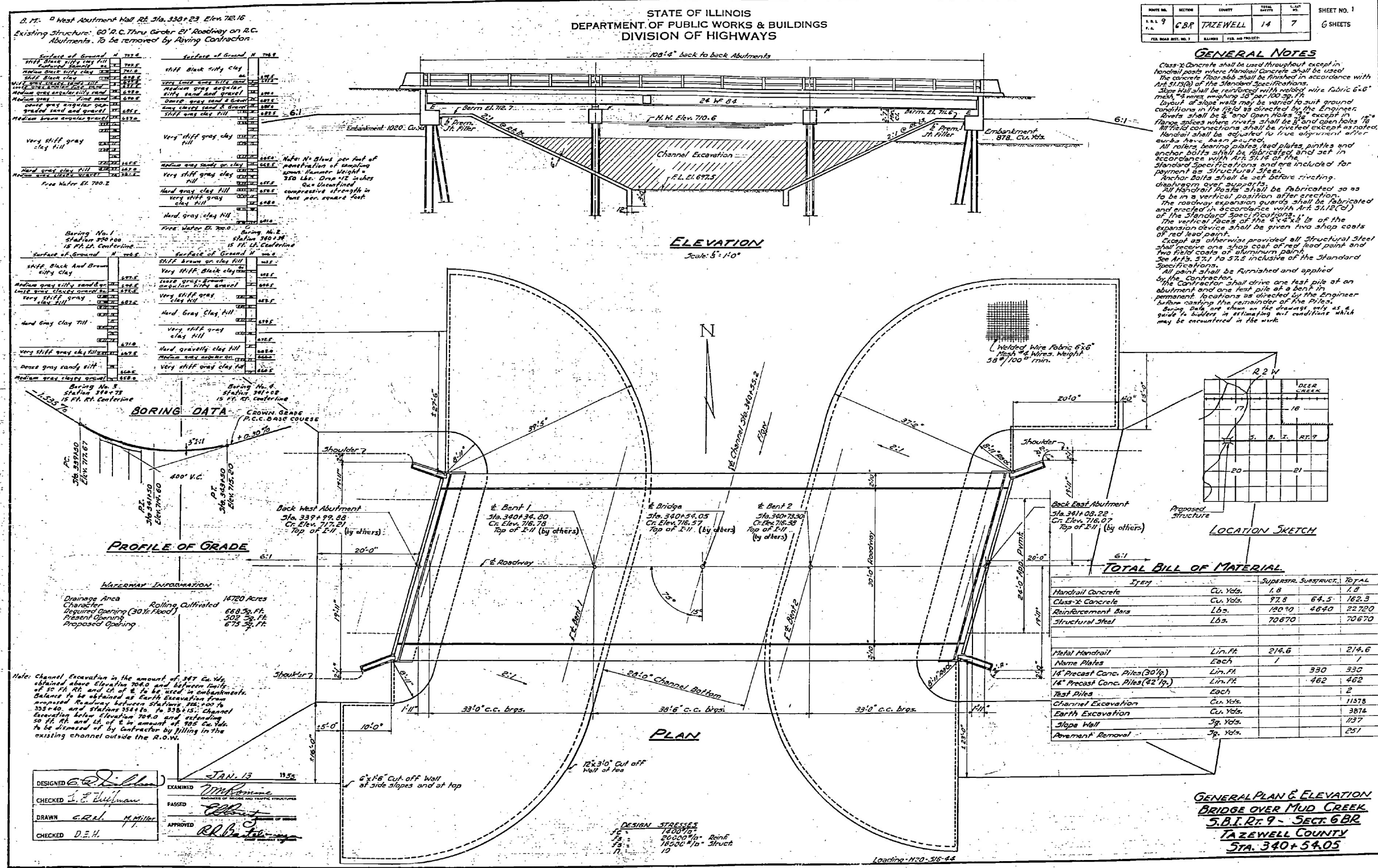
SUPERSTRUCTURE
S.B.I. RT. 9 SECTION 6BR-1
TAZEWELL COUNTY
STA. 340+54.05

SN 090-0043

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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 9 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.0833' / in.	DRAWN -	REVISED -			VAR	D4 BRIDGE PAINTING 2024		60	53
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79		
	DATE -	REVISED -			ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY LOCATION 9 - (US 150)



SN 090-0043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 9 - STRUCTURE INFORMATION

USER NAME = ebb	DESIGNED -	REVISED -				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				VAR	D4 BRIDGE PAINTING 2024		60	54
	CHECKED -	REVISED -				KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN				CONTRACT NO. 68H79
	DRAWN -	REVISED -				ILLINOIS				FED. AID PROJECT
	CHECKED -	REVISED -				SCALE: N/A	SHEET 3 OF 5 SHEETS	STA. N/A	TO STA. N/A	

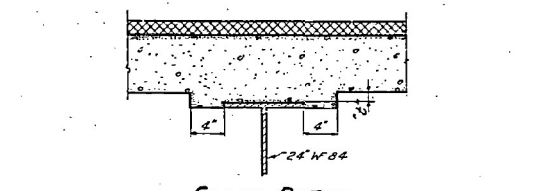
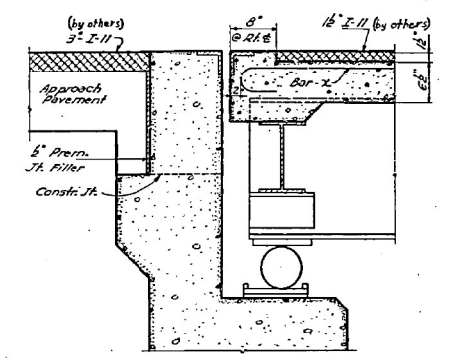
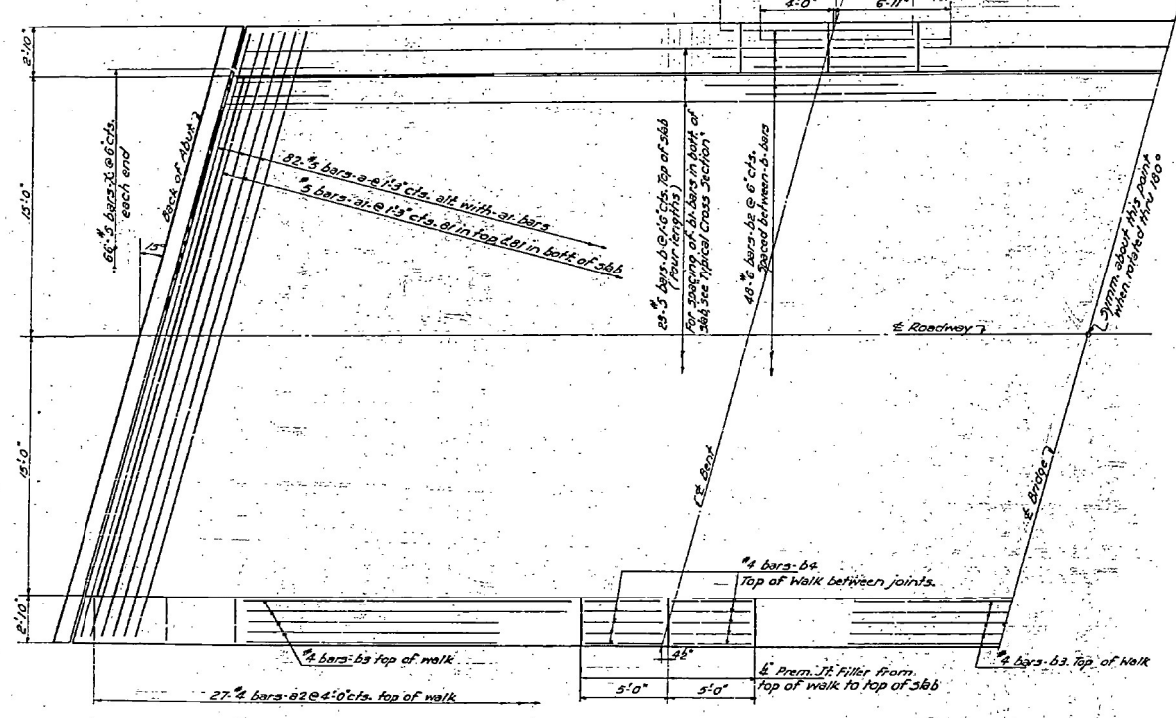
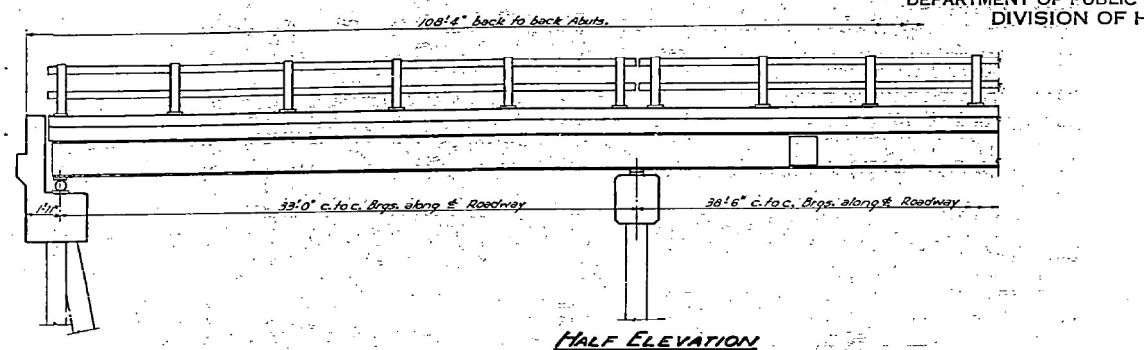
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FOR INFORMATION ONLY

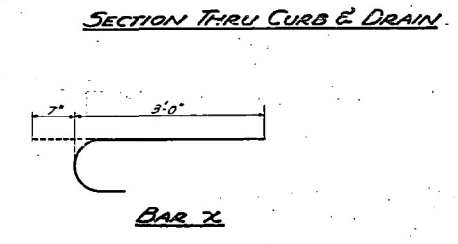
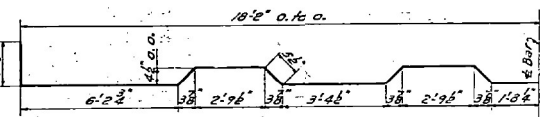
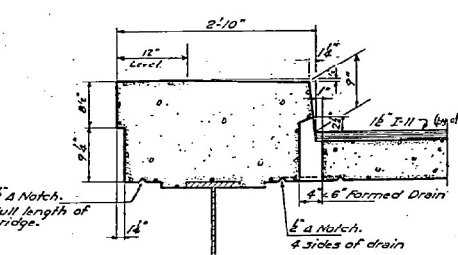
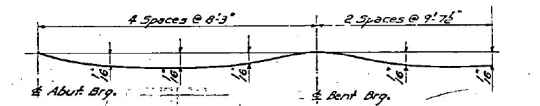
LOCATION 9 - (US 150)

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
150	6-BR	TAZEWELL	14	8
SHEET NO. 2 OF SHEETS				



To determine fillet height elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 feet after structural steel is erected. From these elevations subtract the increment of dead load deflection from diagrams. The elevations so obtained subtracted from the theoretical grade elevations minus floor thickness equals L .

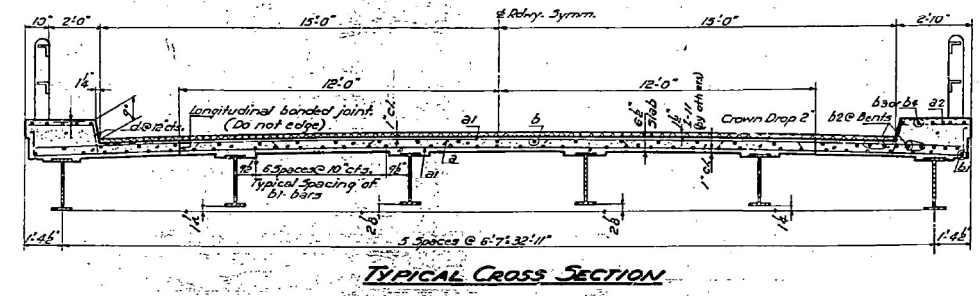


BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	82	5	39'5"
b1	162	5	36'0"
b2	54	4	2'6"
b	72	5	27'3"
b1	118	4	27'3"
b2	96	4	10'11"
b3	30	4	28'3"
b4	40	4	4'9"
c	212	4	1'3"
x	132	5	3'7"

Name Plates Each 1
Class 30 concrete Cu. Yds. 97.8
Reinforcement Bars Lbs. 17780
Structural Steel Lbs. 70670

* Includes bearing assemblies and expansion devices. Estimated Weight 7000 Lbs.



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

JAN. 13 1955
EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

**SUPERSTRUCTURE
BRIDGE OVER MUD CREEK
S.B.R. 9-SEC. 6-BR
TAZEWELL COUNTY
STA. 340+54.05**

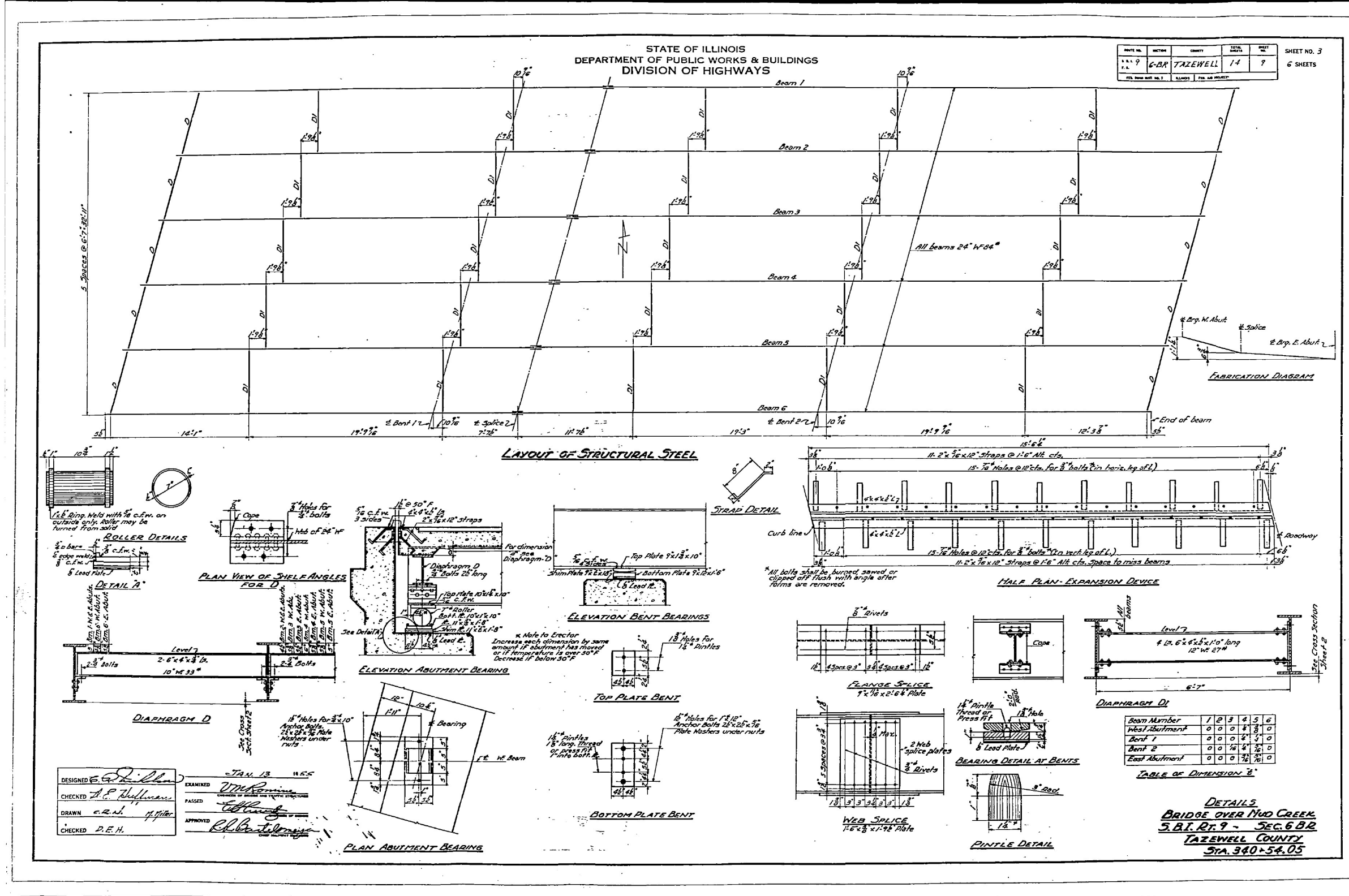
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SN 090-0043

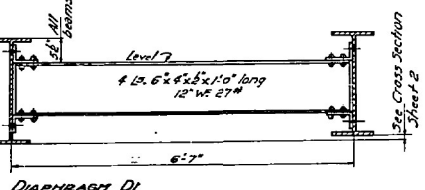
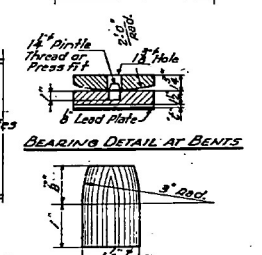
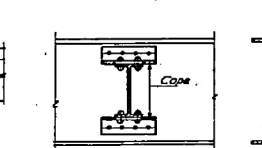
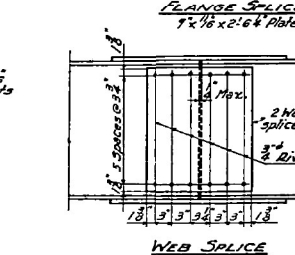
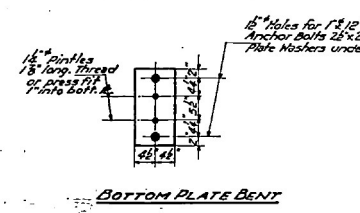
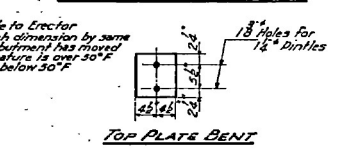
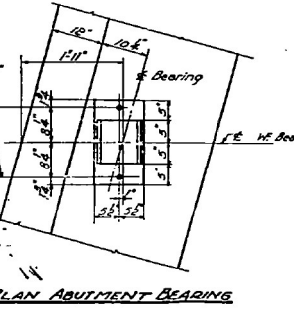
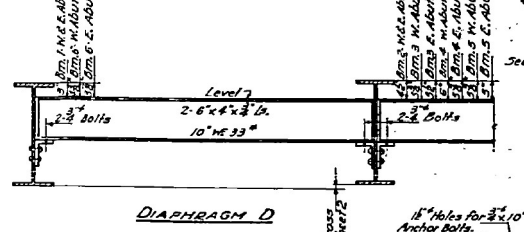
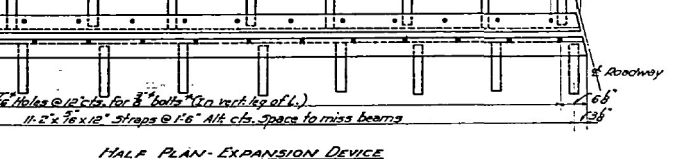
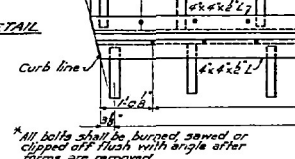
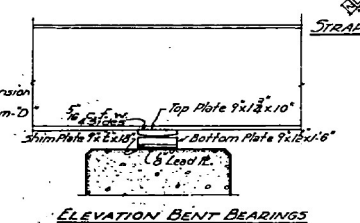
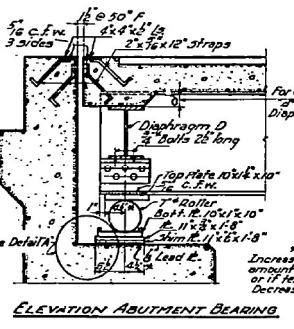
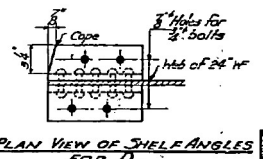
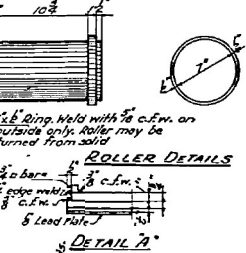
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PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -				VAR	D4 BRIDGE PAINTING 2024		60	55	
PLOT DATE = 8/25/2023	CHECKED -	REVISED -				SCALE: N/A SHEET 4 OF 5 SHEETS STA. N/A TO STA. N/A		* KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79	
	DATE -	REVISED -						ILLINOIS		FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 9 - (US 150)



PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	6-BR	TAZEWELL	14	9
SHEET NO. 3 6 SHEETS				



Beam Member	1	2	3	4	5	6
West Abutment	0	0	0	0	0	0
Bent 1	0	0	0	0	0	0
Bent 2	0	0	0	0	0	0
East Abutment	0	0	0	0	0	0

DESIGNED: *E. J. Dillman*
 CHECKED: *A. E. Hoffmann*
 DRAWN: *C. R. J.*
 CHECKED: *D. E. H.*

JAN 13 1955
 EXAMINED: *W. R. ...*
 PASSED: *...*
 APPROVED: *R. B. ...*

DETAILS
BRIDGE OVER MUD CREEK
S.B. RT. 9 - SEC. 6 B.R.
TAZEWELL COUNTY
STA. 340+54.05

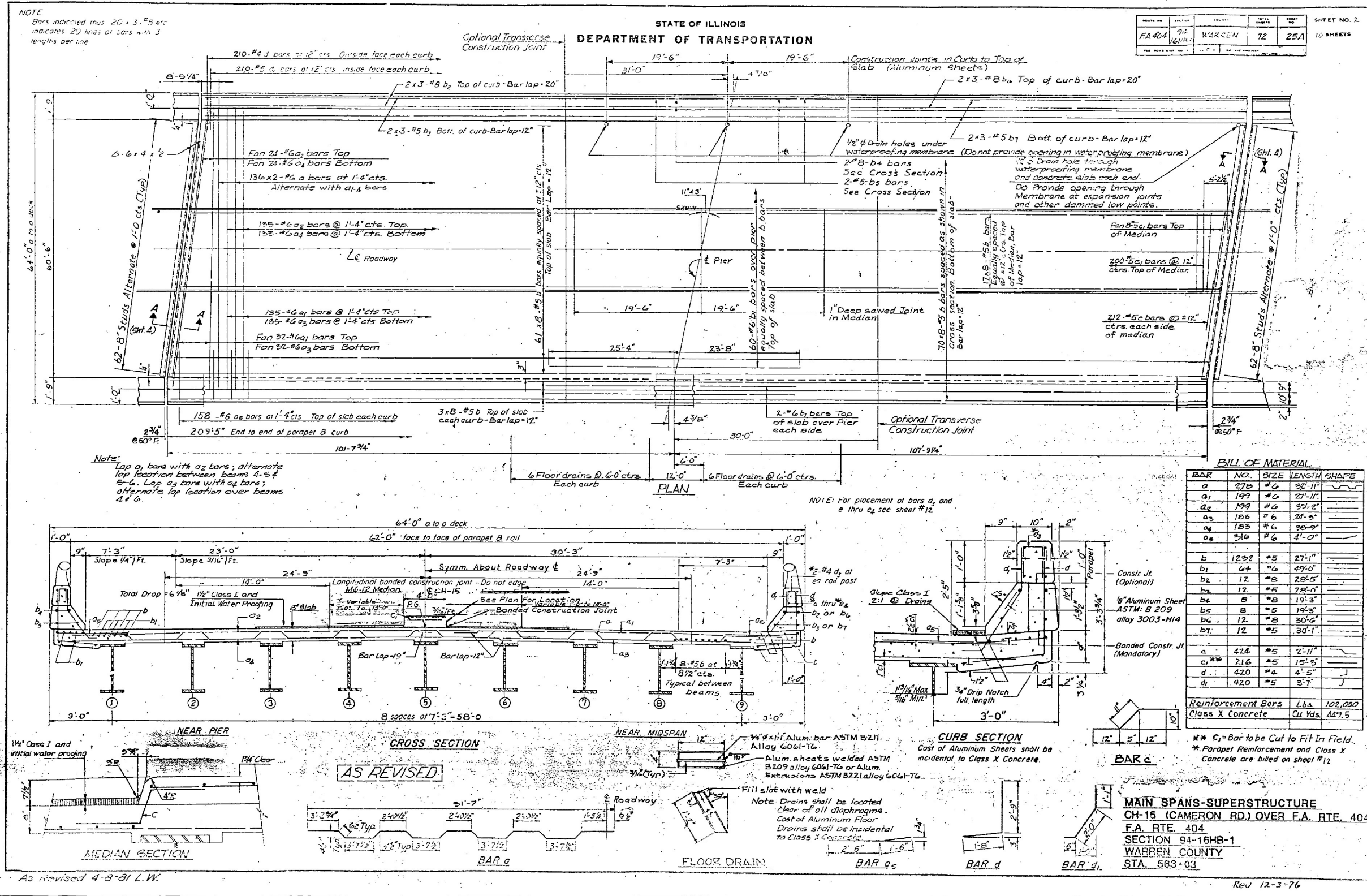
SN 090-0043

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USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LOCATION 9 - STRUCTURE INFORMATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -			SCALE: N/A		VAR	D4 BRIDGE PAINTING 2024		60	56
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			SHEET 5 OF 5 SHEETS		KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
	DATE -	REVISED -			STA. N/A TO STA. N/A		ILLINOIS			FED. AID PROJECT	

FOR INFORMATION ONLY

LOCATION 10 - (CAMERON RD)



MODEL D:\of\11... FILE NAME: P:\Galesburg\211\11... 210-933\Work Order - FY 2024 - Bridges\Transportation\66179 - Bridge Painting\0466130-struct-bridgepainting.dgn

SN 094-0028

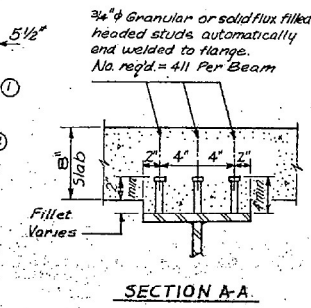
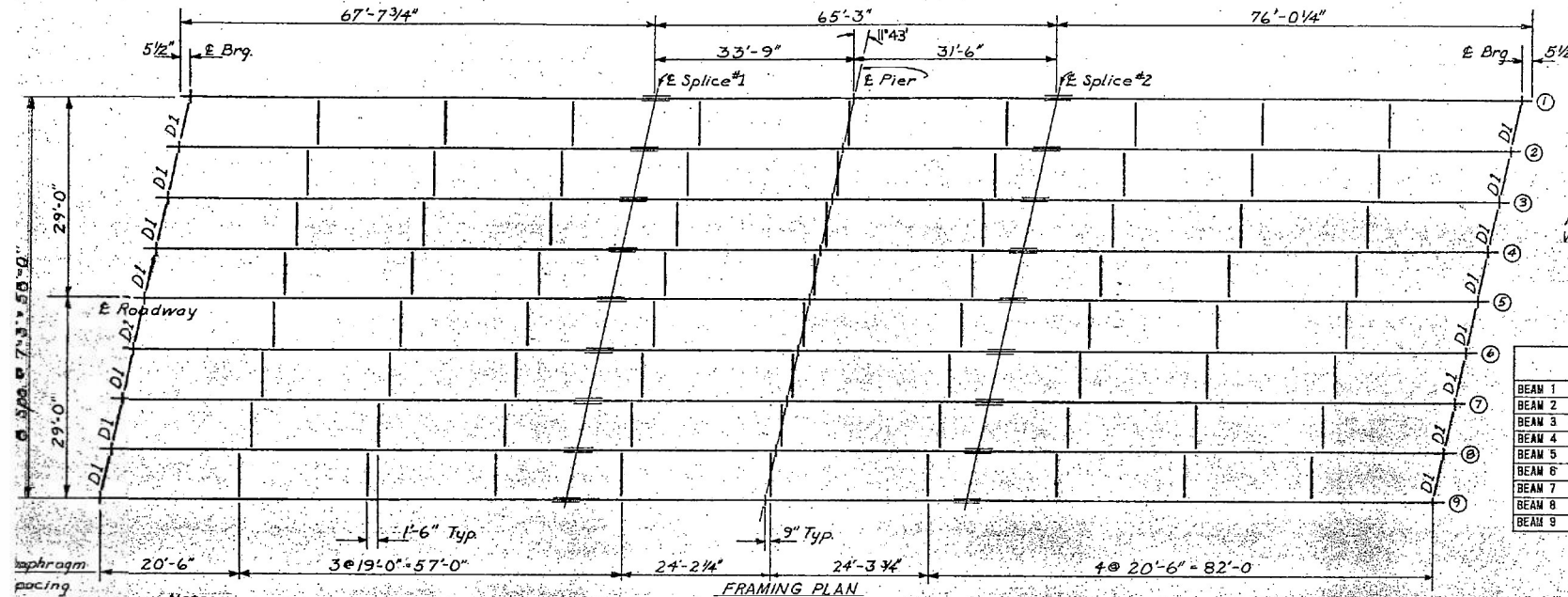
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PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -		SCALE: N/A				VAR	D4 BRIDGE PAINTING 2024		60	58
PLOT DATE = 8/25/2023	CHECKED -	REVISED -		SHEET 2 OF 4 SHEETS				KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN		CONTRACT NO. 68H79		
	DATE -	REVISED -		STA. N/A TO STA. N/A				ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

LOCATION 10 - (CAMERON RD)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

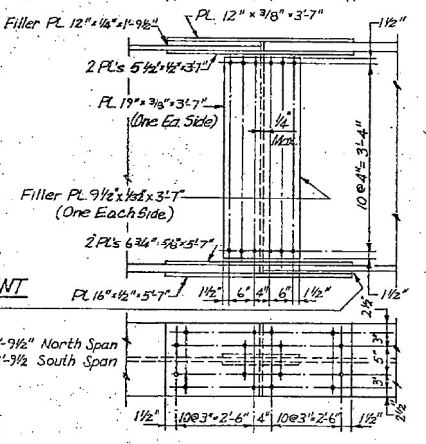
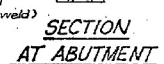
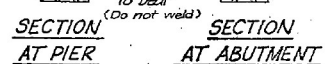
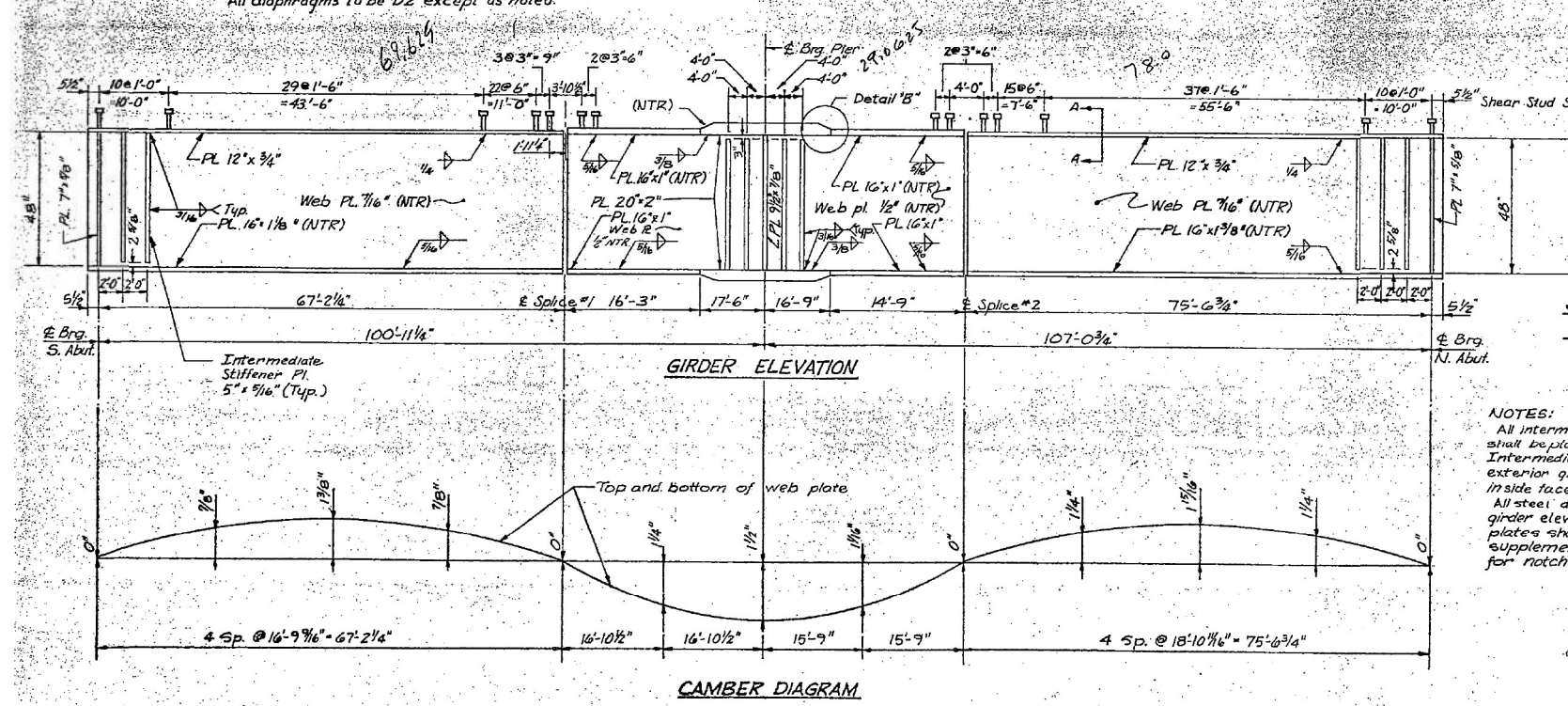
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
FA404	94	WARREN	92	29	16 SHEETS
F.M.A. REG. #	ILLINOIS	FED. AID PROJECT			



TOP OF WEB ELEVATIONS

	€ BRG. S. ABUT.	€ SPLICE 1	€ PIER	€ SPLICE 2	€ BRG. N. ABUT.
BEAM 1	743.148	741.804	741.004	740.499	738.988
BEAM 2	743.322	741.979	741.179	740.674	739.163
BEAM 3	743.466	742.122	741.322	740.817	739.306
BEAM 4	743.809	742.266	741.466	740.961	739.449
BEAM 5	743.753	742.409	741.609	741.104	739.593
BEAM 6	743.669	742.326	741.526	741.021	739.510
BEAM 7	743.586	742.242	741.442	740.937	739.426
BEAM 8	743.503	742.159	741.359	740.854	739.343
BEAM 9	743.388	742.045	741.245	740.740	739.229

The above elevations are for fabrication of structural steel and do not include any allowance for deflections due to weight of concrete or steel.



NOTES:
All intermediate stiffener plates shall be placed on one side only. Intermediate stiffener plates at exterior girder shall be placed on inside face of girder.
All steel designated "NTR" on girder elevation and all splice plates shall be subject to the supplemental requirements for notch toughness.

MAIN SPANS - BEAM DETAILS
CH-15 (CAMERON RD.) OVER F.A. RTE. 404
F.A. RTE. 404
SECTION 94-16HB-1
WARREN COUNTY
STA. 563 + 03

MODEL D:\dof\11... FILE NAME: P:\Galesburg\2111es\213081\DDT - DISE1 4 - PTB 201-833\Work Order 20 - FY 2024 Bridge\Transportation\68179 Bridge\Painting\046810B-st-bridgepainting.dgn

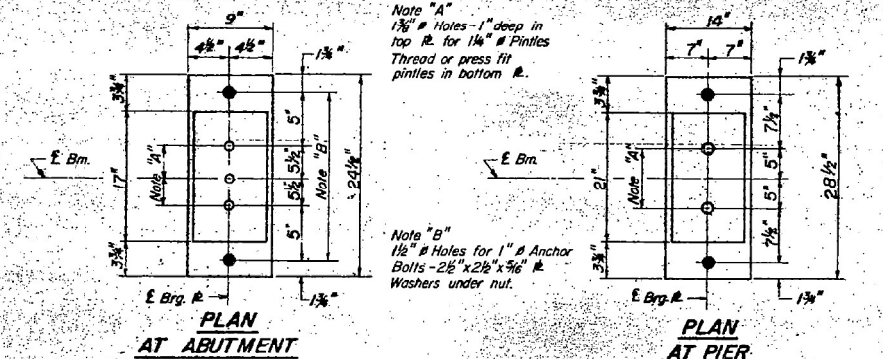
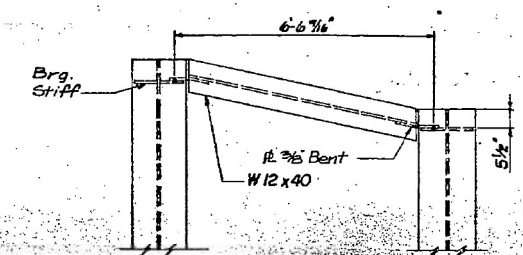
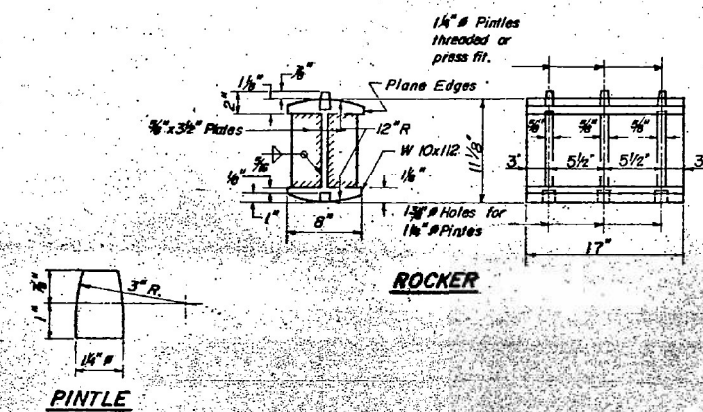
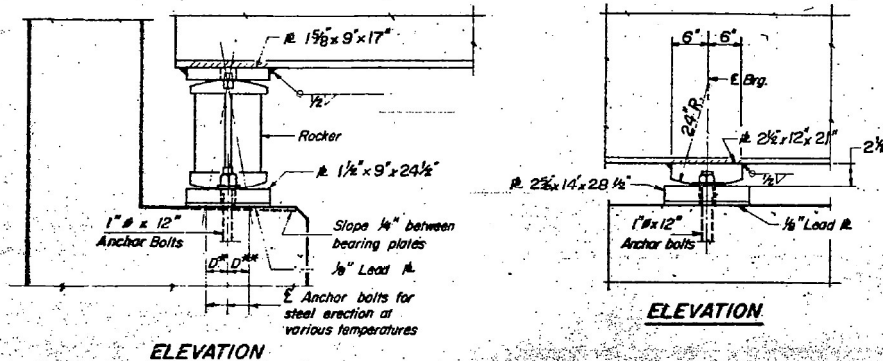
SN 094-0028

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 10 - STRUCTURE INFORMATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -					VAR.	D4 BRIDGE PAINTING 2024		60	59
PLOT DATE = 8/25/2023	CHECKED -	REVISED -					KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN			CONTRACT NO. 68H79	
	DATE -	REVISED -					ILLINOIS			FED. AID PROJECT	

FOR INFORMATION ONLY LOCATION 10 - (CAMERON RD)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EA404 16HB-1		WARREN	72	30
DESIGNED BY	DRAWN BY	CHECKED BY	SHEET NO. 7 16 SHEETS	



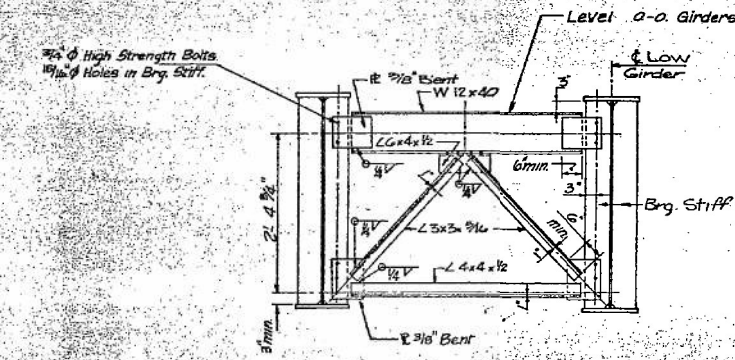
INTERIOR GIRDER MOMENT TABLE

	O.A. Sp.1	Pier	O.G. Sp.2
<i>I_s</i> (in ⁴)	19205	64608	20772
<i>I_c</i> (in ⁴)	51850	—	57553
<i>S_s</i> (in ³)	937.6	2100.3	1084.8
<i>S_c</i> (in ³)	1273.4	—	1469.4
<i>Q</i> (K/1)	0.960	0.960	0.960
<i>M_R</i> (K)	522.2	-1628.5	669.0
<i>f_s</i> (ksi)	6.68	9.30	7.40
<i>s_e</i> (K/1)	0.575	0.575	0.575
<i>M_s</i> (K)	392.0	-777.4	479.9
<i>M_t</i> (K)	826.2	-807.3	875.8
<i>M_{imp}</i> (K)	182.8	-176.3	188.7
<i>Total</i> (K)	1401.0	-1761.0	1544.4
<i>f_s Total</i> (ksi)	13.82	10.06	12.94
<i>f_s Total</i> (ksi)	20.20	19.36	20.34
<i>VR</i> (K)	57.2	—	56.2

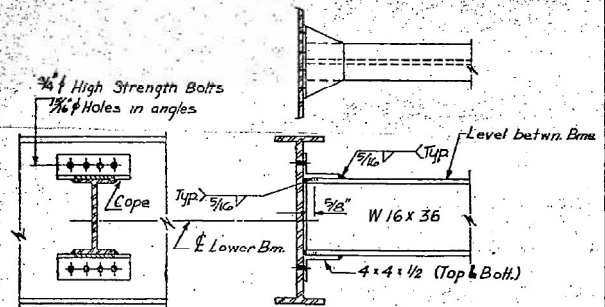
INTERIOR GIRDER REACTION TABLE

	S. Abut.	Pier	N. Abut.
<i>R_R</i> (K)	53.6	205.8	59.6
<i>R_L</i> (K)	46.8	75.8	47.1
<i>Imp</i> (K)	10.3	16.6	10.2
<i>R Total</i> (K)	110.7	298.2	116.9

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 *I* + Impact shear range in span.
 Stresses for superimposed dead load are based on composite section utilizing *n*=30. Values of *I_c* and *S_c* are 36767 in.⁴ and 1723 in.³ respectively for span 1, and 40521 in.⁴ and 1353.5 in.³ respectively for span 2.



DIAPHRAGM D1
16 REQUIRED



DIAPHRAGM D2
72 REQUIRED

Note: Hardened washers shall be required over 1 1/8 inch holes in angles and brg. stiff.

NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS
 a.) *D^a* (Side of brg. away from fixed brg.)
 $D^a = \frac{1}{8}$ per. each 100 of expansion for every 15° fall below the normal temp. of 50° F.
 $D^a = \frac{1}{8}$ per. each 100 of expansion for every 15° rise above the normal temp. of 50° F.
 b.) After beams have been erected and dimensions *D^a* & *D^b* determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

I-2-6 3-29-71

**BEARINGS AND DIAPHRAGMS
CH-15 (CAMERON RD.) OVER F.A. RTE. 404
F.A. RTE. 404
SECTION 94-16HB-1
WARREN COUNTY
STA. 563+03**

MODEL D:\of\... FILE NAME: P:\Galesburg\211\es\213081\DDT - DISE 4 - PTB 201-833\Work Order 20 - FY 2024 - Bridges\Transportation\68179 - Bridge - Painting\046810B-shr-bridgepainting.dgn

SN 094-0028

USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 10 - STRUCTURE INFORMATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 0.8833' / in.	DRAWN -	REVISED -			VAR	D4 BRIDGE PAINTING 2024			60	60
PLOT DATE = 8/25/2023	CHECKED -	REVISED -			SCALE: N/A SHEET 4 OF 4 SHEETS STA. N/A TO STA. N/A		KNOX, MCDONOUGH, PEORIA, TAZEWELL, & WARREN ILLINOIS		CONTRACT NO. 68H79 FED. AID PROJECT	