

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A. RATE	E. PAN N	CONTR.	TOTAL	PROJECT
VAR	4	R	E	PAN N

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
- 3-5 SUMMARY OF QUANTITIES
- 6-7 LOCATION MAP
- 8-40 TRAFFIC CONTROL SHEETS
- 41-46 LOCATION 1 - STRUCTURE INFORMATION
- 47-53 LOCATION 2&3 - STRUCTURE INFORMATION
- 54-60 LOCATION 4&5 - STRUCTURE INFORMATION
- 61-67 LOCATION 6 - STRUCTURE INFORMATION
- 68-74 LOCATION 7 - STRUCTURE INFORMATION
- 75-81 LOCATION 8 - STRUCTURE INFORMATION
- 82-88 LOCATION 9 - STRUCTURE INFORMATION
- 89-95 LOCATION 10 - STRUCTURE INFORMATION
- 96-102 LOCATION 11 - STRUCTURE INFORMATION

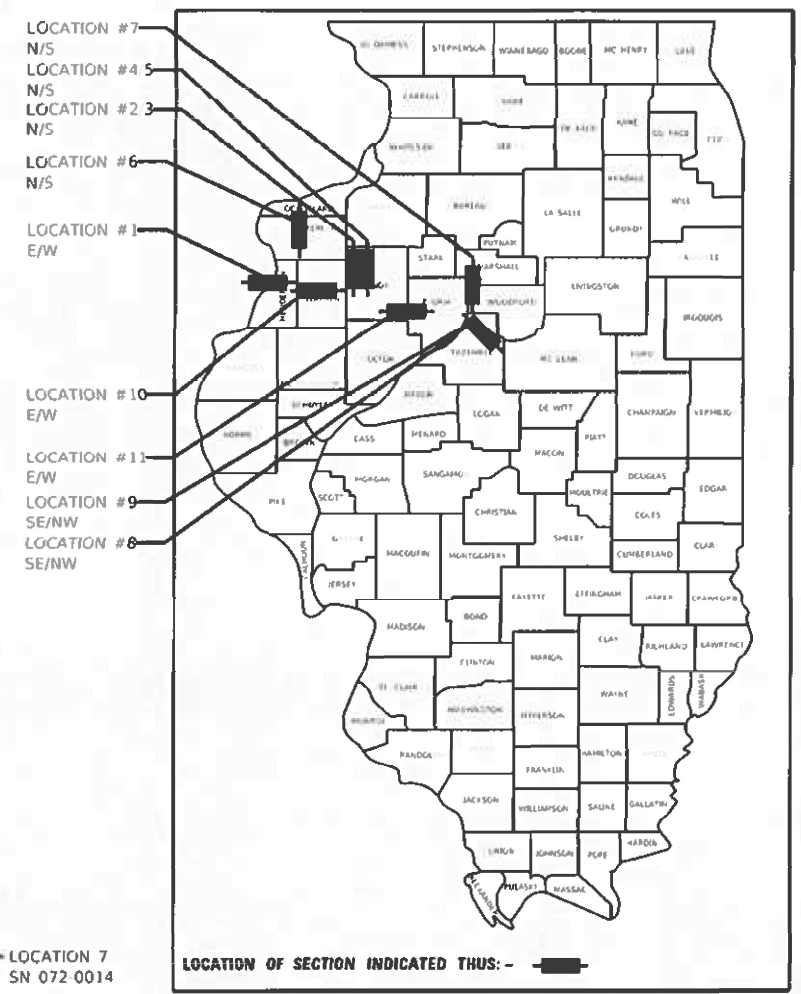
HIGHWAY STANDARDS

- 000001-09 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701010-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701321-19 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701400-12 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-12 LANE CLOSURE FREEWAY/EXPRESSWAY WITH BARRIER
- 701411-09 LANE CLOSURE MULTILANE ENTRANCE OR EXIT RAMP 45 MPH OR MORE
- 701423-10 LANE CLOSURE MULTILANE WITH BARRIER 45-55MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS ≥ 45 MPH
- 701427-05 LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 40MPH OR LESS
- 701901-11 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PROPOSED
HIGHWAY PLANS

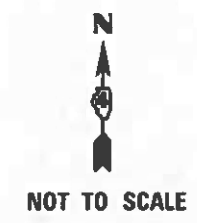
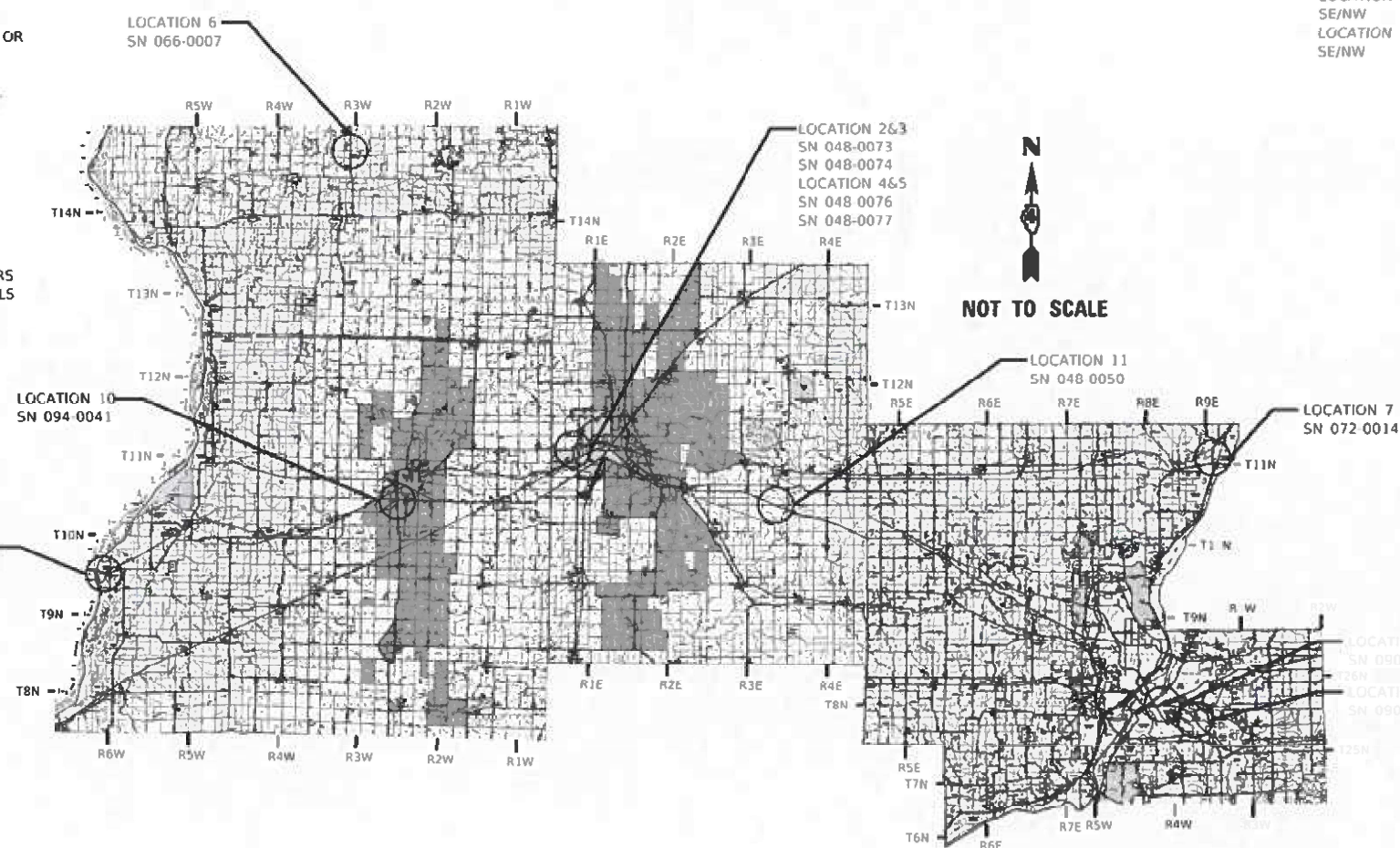
(VAR) ROUTE VARIOUS
SECTION D4 BRIDGE PAINTING 2026
VARIOUS COUNTIES
C-94-111-25

D-94-097-25



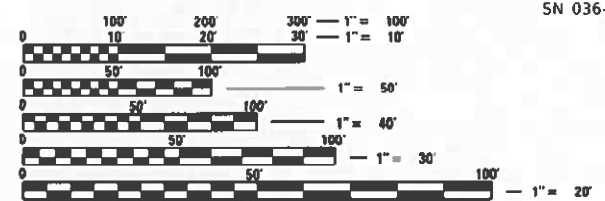
- LOCATION #7 N/S
- LOCATION #4 5 N/S
- LOCATION #2 3 N/S
- LOCATION #6 N/S
- LOCATION #1 E/W
- LOCATION #10 E/W
- LOCATION #11 E/W
- LOCATION #9 SE/NW
- LOCATION #8 SE/NW

LOCATION OF SECTION INDICATED THUS: - [Symbol]



TRAFFIC DATA - ADT

- LOCATION 1 - 10800 (2023)
- LOCATION 2 - 8950 (2023)
- LOCATION 3 - 8950 (2023)
- LOCATION 4 - 8950 (2023)
- LOCATION 5 - 8950 (2023)
- LOCATION 6 - 2900 (2023)
- LOCATION 7 - 6400 (2023)
- LOCATION 8 - 6600 (2023)
- LOCATION 9 - 5000 (2023)
- LOCATION 10 - 8000 (2023)
- LOCATION 11 - 15400 (2023)



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

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

PROJECT ENGINEER: BEN TELLEFSON
PROJECT MANAGER: MARK ECKHOFF
CONTRACT NO. 68K62
CATALOG NO. 036699-00D

TIMOTHY B. PADGETT, P.E. EXPIRATION DATE
LICENSE NO. 062-049162 11-30-2025

PLANS PREPARED BY:
TWM
ENGINEERING
GEOSPATIAL SERVICES
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel 618.624.4488
www.twm-n.com
Illinois Professional Design Firm
No. 184-001220
License Expires: 4/30/2027
ILLINOIS - MISSOURI - TENNESSEE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED October 14, 2025
Kevin A. Barrett, Inc.
REGIONAL ENGINEER
January 23, 2026
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
January 23, 2026
Quarry
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

THE DEPARTMENT RESERVES THE RIGHT AT ANY TIME TO ADD ADDITIONAL TRAFFIC CONTROL SYSTEMS OR DEVICES WITHIN THE ACTIVE CONTRACT LIMITS, BY MEANS OF AN ADDITIONAL CONTRACT. ALL TERMS OF ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS SHALL BE FOLLOWED BY EACH CONTRACTOR.

LOCATION 11: COORDINATE TRAFFIC CONTROL WITH THE CONTRACTOR FOR IDOT CONTRACT 68E35.

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 036-0035: BEAM ENDS PREVIOUSLY METALIZED. PAINT ENTIRE STRUCTURE.

LOCATION 2 & 3 SN 048-0073 & SN 048-0074: PAINT ENTIRE STRUCTURE.

LOCATION 4 & 5 SN 048-0076 & SN 048-0077: PAINT ENTIRE STRUCTURE.

LOCATION 6 SN 066-0007: PAINT ENTIRE STRUCTURE.

LOCATION 7 SN 072-0014: PAINT ENTIRE STRUCTURE.

LOCATION 8 SN 090-0037: SEE CHART

LOCATION 9 SN 090-0148: PAINT ENTIRE STRUCTURE.

LOCATION 10 SN 094-0041: PAINT ENTIRE STRUCTURE.

LOCATION 11 SN 048-0050: PAINT ENTIRE STRUCTURE.

THE EXISTING STRUCTURAL STEEL COATING AT LOCATIONS 2, 3, 4, 5, 6, 8 & 11 CONTAIN LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO ADDRESS THE PRESENCE OF LEAD ON THESE STRUCTURES

THE BEAM ENDS OF LOCATION 1: SN 036-0035 HAD PREVIOUSLY BEEN METALIZED WITH THERMAL METALIC SPRAY AND THEN OVERCOATED, THE INTENT IS TO PREPARE THESE AREAS FOR OVERCOATING WITH THE PROPOSED NEW PAINT SYSTEM BY BRUSH-OFF BLAST CLEANING IN ACCORDANCE WITH SSPC-SP 16. ALL OTHER ASPECTS IN THE SPECIAL PROVISION "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" STILL APPLY.

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, EXCEPT FOR THE METALIZED BEAM ENDS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U.

FOR LOCATIONS 1-11, THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR AND EXTERIOR STEEL SURFACES SHALL BE LIGHT GREY (MUNSELL NO. 5B 7/1).

ONLY STRUCTURAL STEEL AND OTHER DESIGNATED SURFACES SHALL BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM CONTRACTOR'S BLASTING AND PAINTING OPERATIONS. ANY AREAS THAT ARE 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 THE ELASTOMERIC BEARINGS OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

THE SSPC-QP1 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. SEE SPECIAL PROVISION FOR CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES.

THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM. SEE SPECIAL PROVISIONS.

AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THE FOLLOWING LOCATIONS: SEE SPECIAL PROVISION FOR CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES.

MIN REQUIRED		
LOCATION 4/5	SN 048-0076/0077	2
LOCATION 8	SN 090-0037	4
LOCATION 11	SN 048-0050	2

STRUCTURES REQUIRING RAILROAD COORDINATION (SEE SPECIAL PROVISIONS): NONE

LOCATION 8 PAINTING CHART

	BEAM ENDS *		SPAN
	WEST (FT)	EAST (FT)	
SPAN 1	5		
SPAN 3		10	
SPAN 4	10		
SPAN 7		12	
SPAN 8	25	10	
SPAN 9			ENTIRE SPAN

* INCLUDING BEARINGS, DIAPHRAMS, CROSS FRAMES, AND DOWNSPOUTS WITHIN THESE LENGTHS.
NOTE: PAINT AREAS ARE NOT NEXT TO RR TRACKS.

TRAFFIC CONTROL - HIGHWAY STANDARDS

LOCATION #	ROADWAY	701001	701006	701011	701101	701106	701301	701321	TC&P, STD 701321 (SPECIAL)	701400	701402	TC&P, STD 701402 (SPECIAL)	701411	701423	TC&P, STD 701423 (SPECIAL)	701426	701427	701901	TC&P, (SPECIAL)
		LOCATION #1	MELLINGER AVE US ROUTE 34	X	X	X			X	X								X	
LOCATION #2/3	WEST MAIN STREET US ROUTE 34				X	X								X	X	X		X	
LOCATION #4/5	US ROUTE 34				X	X				X	X		X			X		X	
LOCATION #6	IL 94	X	X	X			X	X										X	
LOCATION #7	IL 29	X	X	X			X	X										X	
LOCATION #8	MEADOW AVE				X	X											X	X	X
LOCATION #9	US ROUTE 150	X	X	X			X	X	X									X	
LOCATION #10	US ROUTE 67 US ROUTE 34	X	X	X	X	X	X			X		X	X			X		X	X
LOCATION #11	FAI 74 TR 235	X	X	X	X	X	X			X	X					X		X	X

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	DRAWN - BCS	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - TBP	REVISED -
PLOT DATE = 10/6/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES & COMMITMENTS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	2
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE									
				LOCATION 1	LOCATION 2 & 3	LOCATION 4 & 5	LOCATION 6	LOCATION 7	LOCATION 8	LOCATION 9	LOCATION 10	LOCATION 11	
				US 34	WB / EB US 34	WB / EB US 34	IL 94	IL 29	MEADOW AVE	US 150	US 34 & US 67	TR 235 & I-74	
				SN 036-0035	SN 048-0073/048-0074	SN 048-0076/048-0077	SN 066-0007	SN 072-0014	SN 090-0037	SN 090-0148	SN 094-0041	SN 048-0050	
				HENDERSON	KNOX	KNOX	MERCER	PEORIA	TAZEWELL	TAZEWELL	WARREN	KNOX	
				RURAL	RURAL	RURAL	RURAL	RURAL	URBAN	RURAL	RURAL	RURAL	
67100100	MOBILIZATION	L SUM	1	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	4			2							2
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2				1	1					
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4			1					3		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	4	1			1	1		1			
70106700	TEMPORARY RUMBLE STRIPS	EACH	30	12			6	6		6			
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	4064	425	1731		148	159		1601			
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	6504		1000						2704	2800	
70107009	PAVEMENT MARKING BLACKOUT TAPE, 9"	FOOT	2080		9	970					1101		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	154	14	28	28	14	14	14	14	14	14	14
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	7048	177	728	1311	62	66		667	2404	1633	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4925		737.5	1012.5	325	437.5	900	250	712.5	550	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4675		737.5	825	325	437.5	850	250	700	550	
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	5		2				1	2			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	10			2	2	2			2	2	
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	5		2				1	2			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	10			2	2	2			2	2	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1								

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

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PLOT SCALE = 9.9999' / in.	DRAWN - BCS	REVISED -
PLOT DATE = 10/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68K62	

CONSTRUCTION CODE									
LOCATION 1	LOCATION 2 & 3	LOCATION 4 & 5	LOCATION 6	LOCATION 7	LOCATION 8	LOCATION 9	LOCATION 10	LOCATION 11	
US 34	WB / EB US 34	WB / EB US 34	IL 94	IL 29	MEADOW AVE	US 150	US 34 & US 67	TR 235 & I-74	
SN 036-0035	SN 048-0073/048-0074	SN 048-0076/048-0077	SN 066-0007	SN 072-0014	SN 090-0037	SN 090-0148	SN 094-0041	SN 048-0050	
HENDERSON	KNOX	KNOX	MERCER	PEORIA	TAZEWELL	TAZEWELL	WARREN	KNOX	
RURAL	RURAL	RURAL	RURAL	RURAL	URBAN	RURAL	RURAL	RURAL	
100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	
0047	0047	0047	0047	0047	0047	0047	0047	0047	

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	LOCATION 1	LOCATION 2 & 3	LOCATION 4 & 5	LOCATION 6	LOCATION 7	LOCATION 8	LOCATION 9	LOCATION 10	LOCATION 11
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					
Z0007108	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 8	L SUM	1						1			
Z0007111	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 11	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							
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1			1						
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1			1						
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1				1					
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1					1				
Z0010508	CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1						1			
Z0010509	CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1							1		
Z0010510	CLEANING AND PAINTING STEEL BRIDGE NO. 10	L SUM	1								1	
Z0010511	CLEANING AND PAINTING STEEL BRIDGE NO. 11	L SUM	1									1
* X2600022	REMOVE, STORE AND RE-ERECT SIGN PANEL ASSEMBLY (SPECIAL)	EACH	1	1								

*= SPECIALTY ITEM

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 CHECKED - TBP
 DATE - SEPT 2025

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	4
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE									
LOCATION 1	LOCATION 2 & 3	LOCATION 4 & 5	LOCATION 6	LOCATION 7	LOCATION 8	LOCATION 9	LOCATION 10	LOCATION 11	
US 34	WB / EB US 34	WB / EB US 34	IL 94	IL 29	MEADOW AVE	US 150	US 34 & US 67	TR 235 & I-74	
SN 036-0035	SN 048-0073/048-0074	SN 048-0076/048-0077	SN 066-0007	SN 072-0014	SN 090-0037	SN 090-0148	SN 094-0041	SN 048-0050	
HENDERSON	KNOX	KNOX	MERCER	PEORIA	TAZEWELL	TAZEWELL	WARREN	KNOX	
RURAL	RURAL	RURAL	RURAL	RURAL	URBAN	RURAL	RURAL	RURAL	
100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	100% STATE	
0047	0047	0047	0047	0047	0047	0047	0047	0047	

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	LOCATION 1	LOCATION 2 & 3	LOCATION 4 & 5	LOCATION 6	LOCATION 7	LOCATION 8	LOCATION 9	LOCATION 10	LOCATION 11
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1								
X5060607	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 7	L SUM	1					1				
X5060609	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 9	L SUM	1							1		
X5060611	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 10	L SUM	1								1	
X7010035	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423 (SPECIAL)	EACH	2		2							
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1							1		
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2								2	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	2	1					1			

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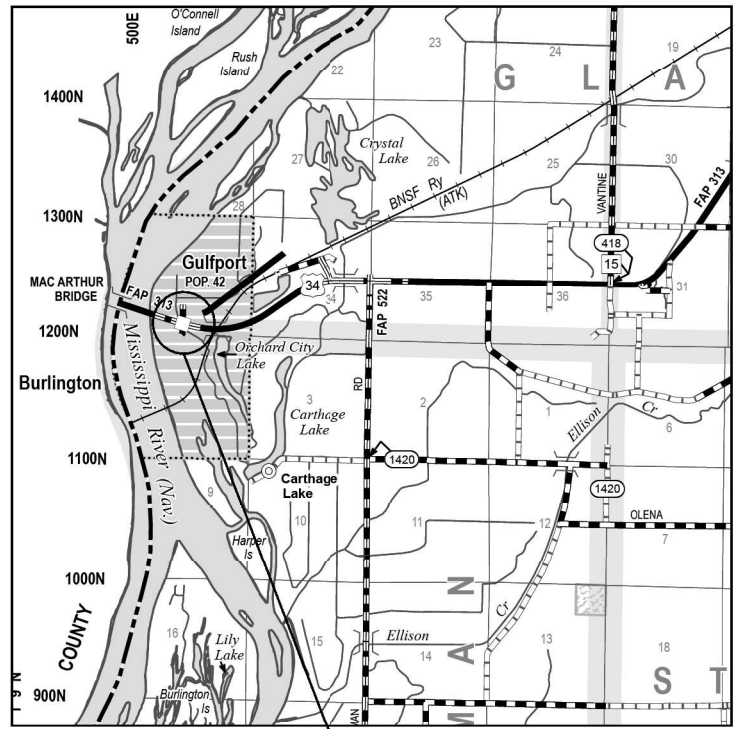
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PLOT DATE = 10/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

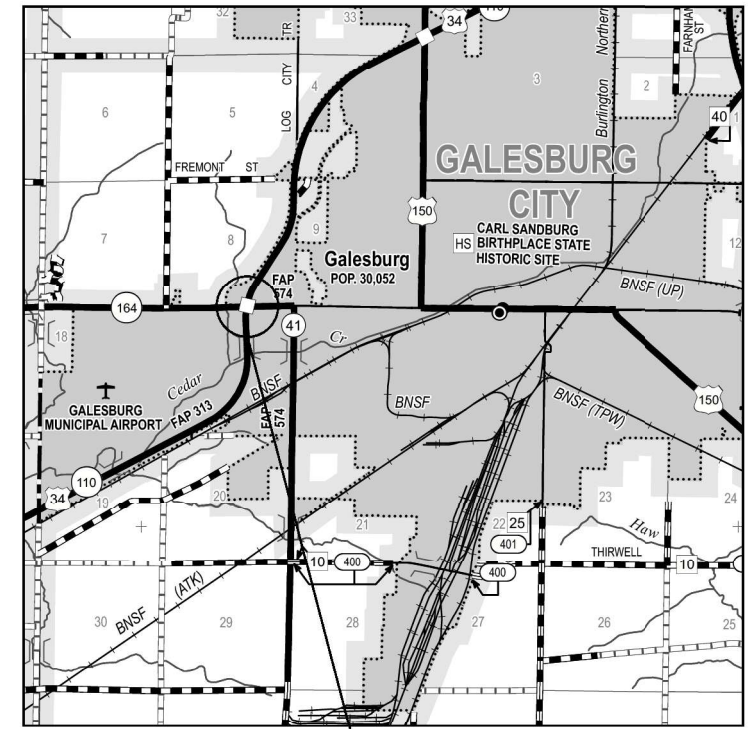
SUMMARY OF QUANTITIES

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

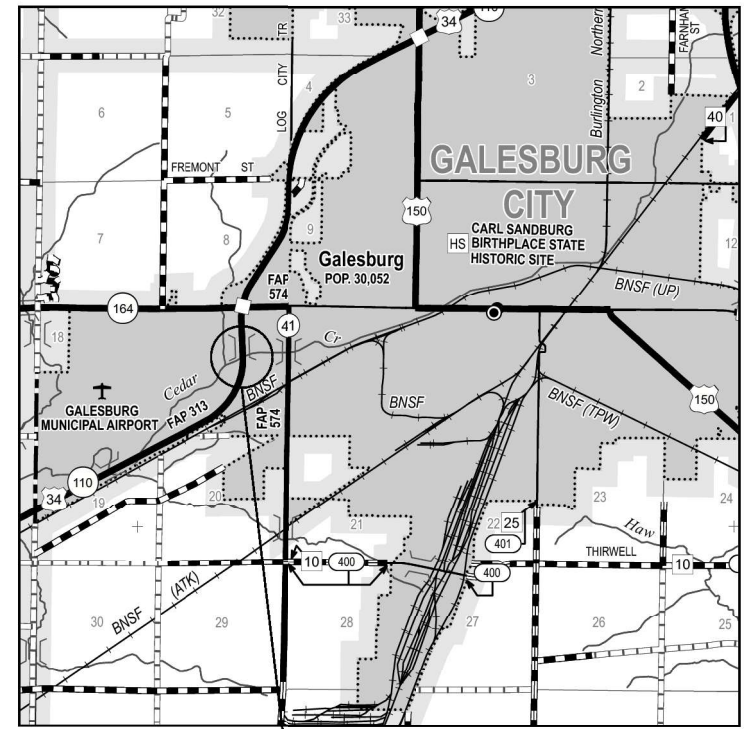
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CONTRACT NO. 68K62			ILLINOIS FED. AID PROJECT	



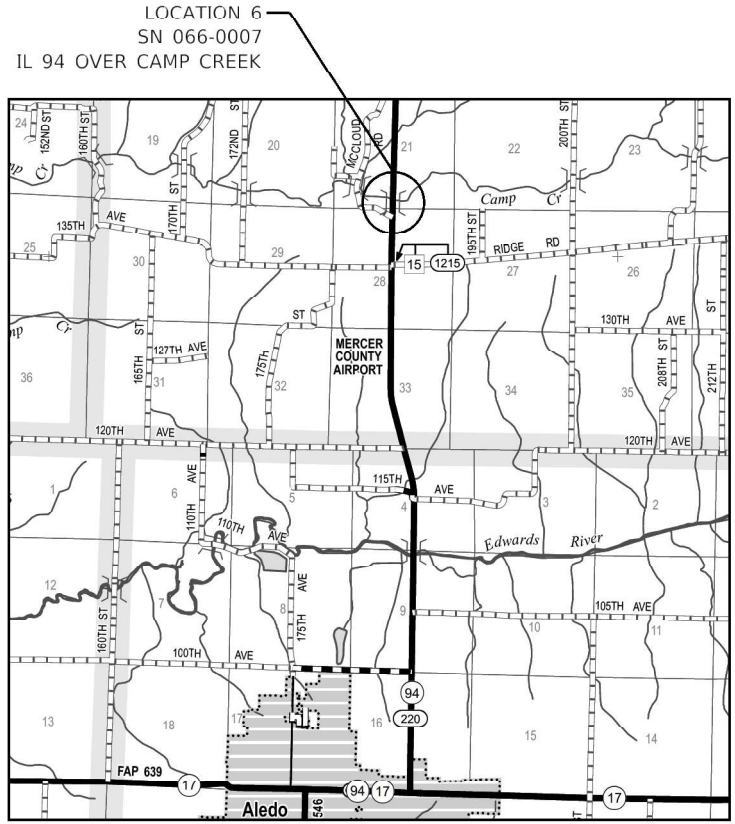
LOCATION 1
SN 036-0035
US 34 OVER MELLINGER AVE.



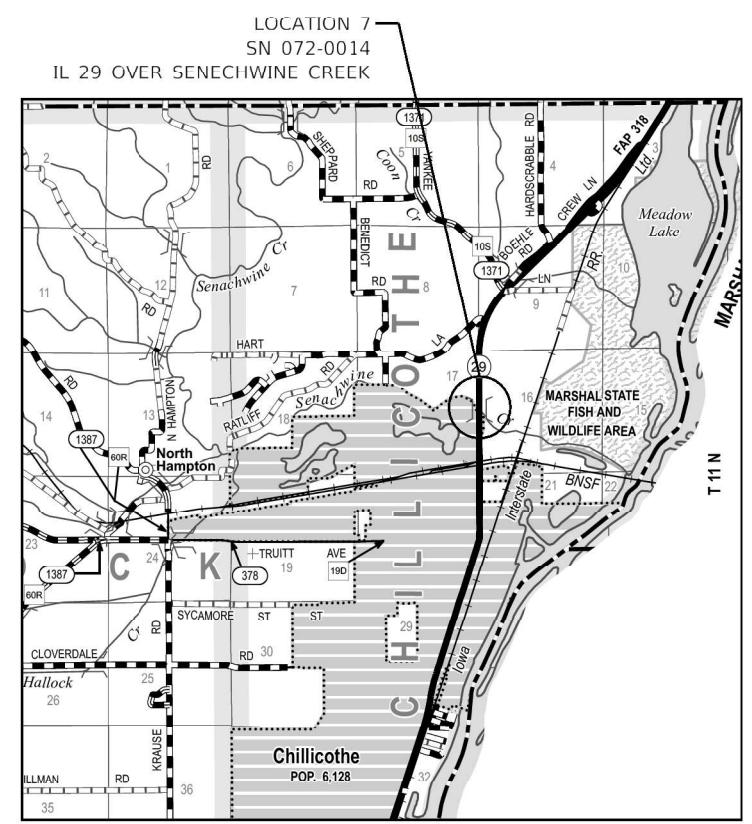
LOCATION 2 & 3
SN 048-0073 & SN 048-0074
WB US 34 OVER W. MAIN ST. &
EB US 34 OVER W. MAIN ST.



LOCATION 4 & 5
SN 048-0076 & SN 048-0077
WB US 34 OVER CEDAR CREEK &
EB US 34 OVER CEDAR CREEK



LOCATION 6
SN 066-0007
IL 94 OVER CAMP CREEK



LOCATION 7
SN 072-0014
IL 29 OVER SENECHWINE CREEK

NOT TO SCALE

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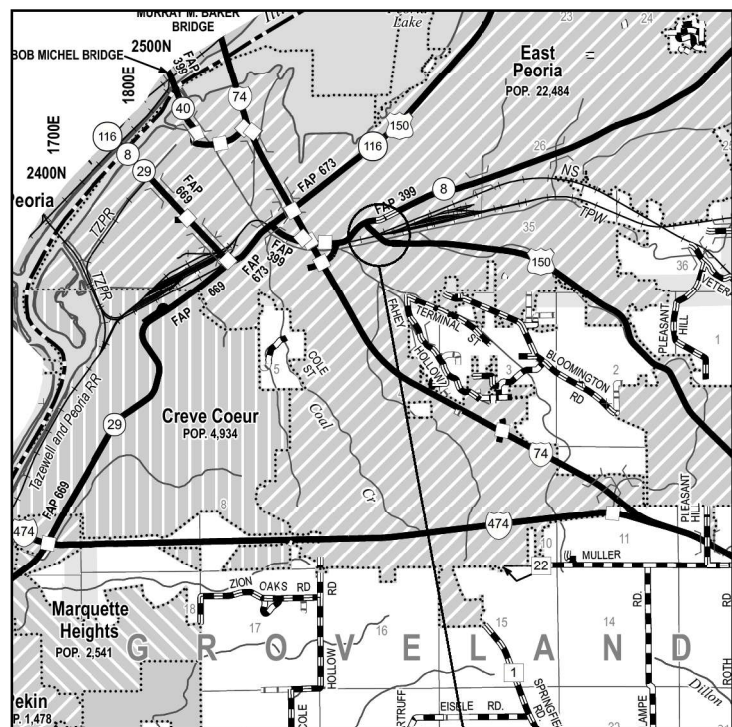
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DRAWN - BCS	REVISED -	
CHECKED - TBP	REVISED -	
DATE - SEPT 2025	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

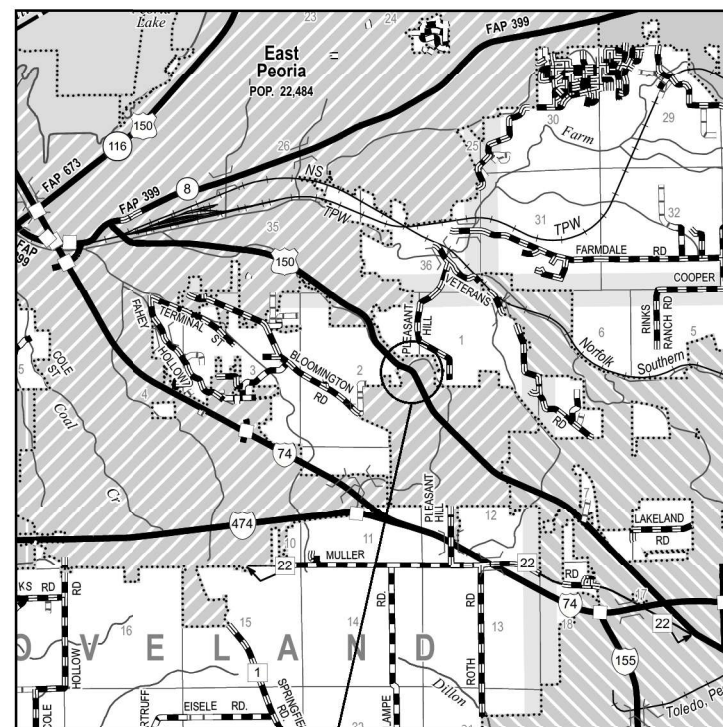
SCALE: NTS	SHEET 1 OF 2 SHEETS	STA. TO STA.
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**LOCATION MAP
STRUCTURE LOCATIONS 1, 2, 3, 4, 5, 6 & 7**

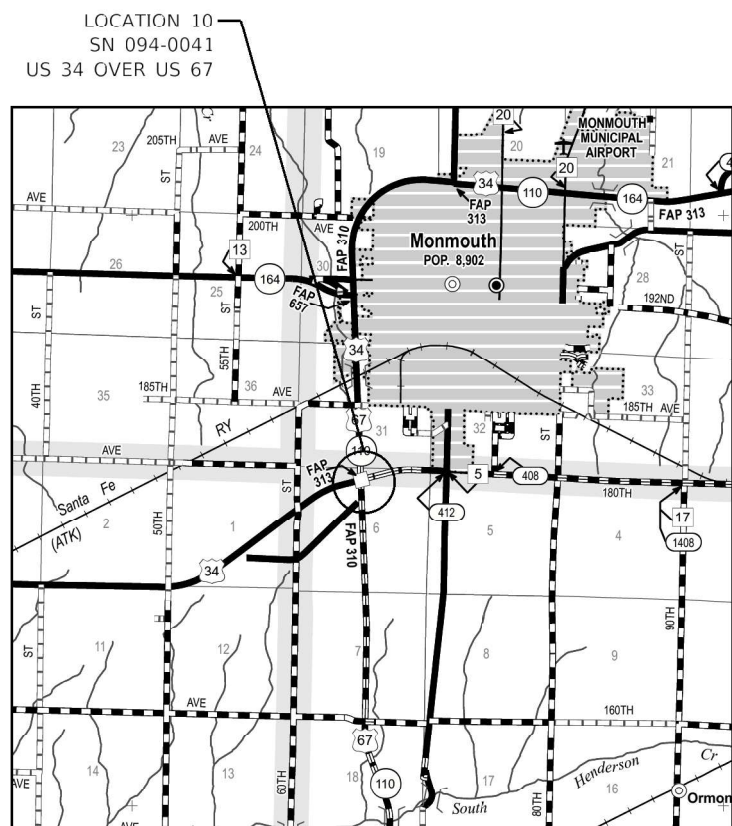
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	6
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				



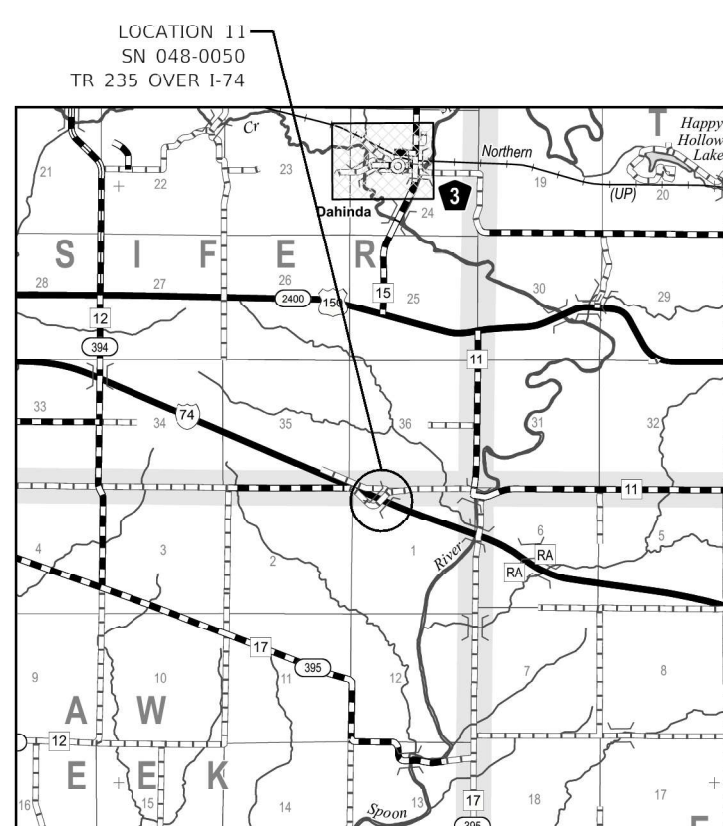
LOCATION 8
SN 090-0037
MEADOW AVE. OVER FARM CREEK



LOCATION 9
SN 090-0148
US 150 OVER LITTLE FARM CREEK



LOCATION 10
SN 094-0041
US 34 OVER US 67



LOCATION 11
SN 048-0050
TR 235 OVER I-74

NOT TO SCALE

MODEL: D:\s\it...
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USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
PLGT SCALE = 40,0000' / 1"	CHECKED - TBP	REVISED -
DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
STRUCTURE LOCATIONS 8, 9, 10 & 11

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

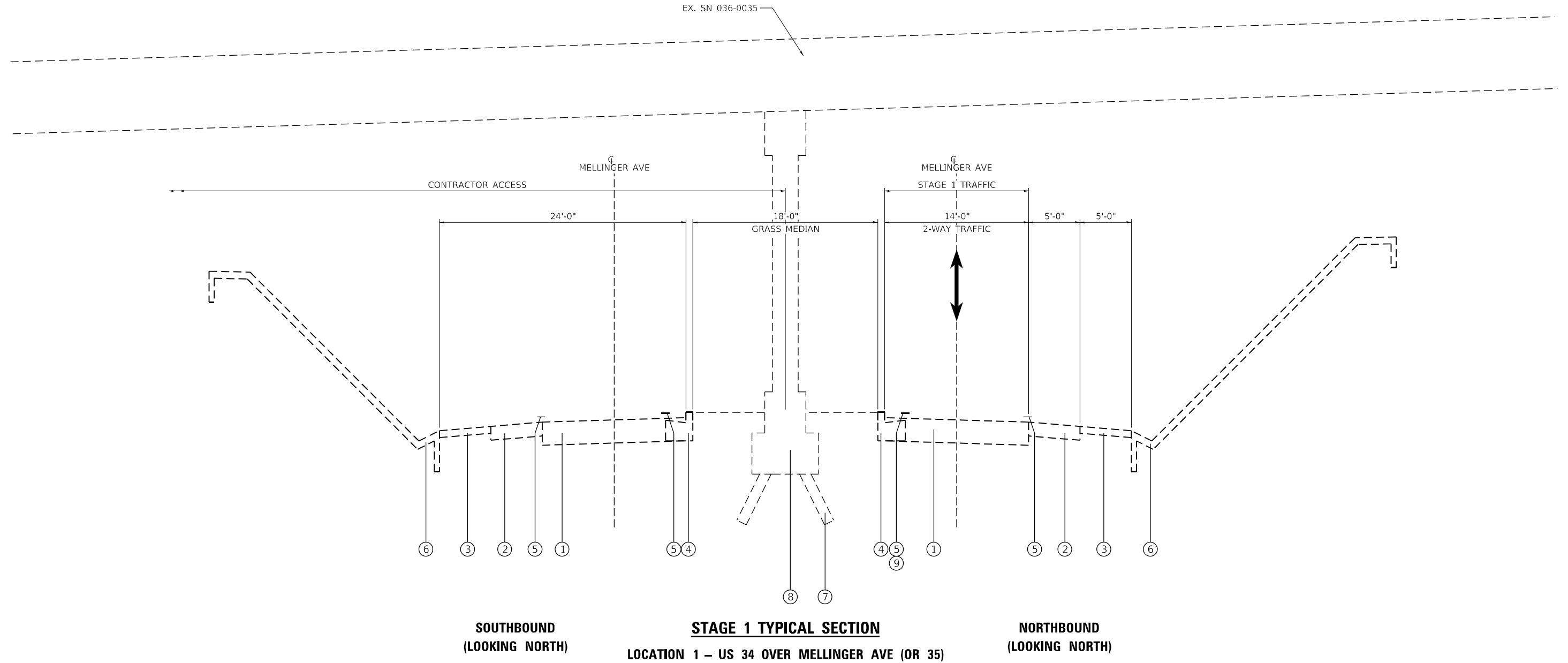
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VAR	D4 BRIDGE PAINTING 2026	VAR	136	7
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION STANDARD (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING HMA SHOULDER
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING PAVEMENT MARKING
- ⑥ EXISTING CONCRETE SLOPE WALL, 4"
- ⑦ EXISTING CONCRETE PILES
- ⑧ EXISTING CONCRETE PIER
- ⑨ TEMPORARY PAVEMENT MARKING TAPE, 5"



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PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

DRAWN - BCS	REVISED -
CHECKED - TBP	REVISED -
DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 - STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 1**

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

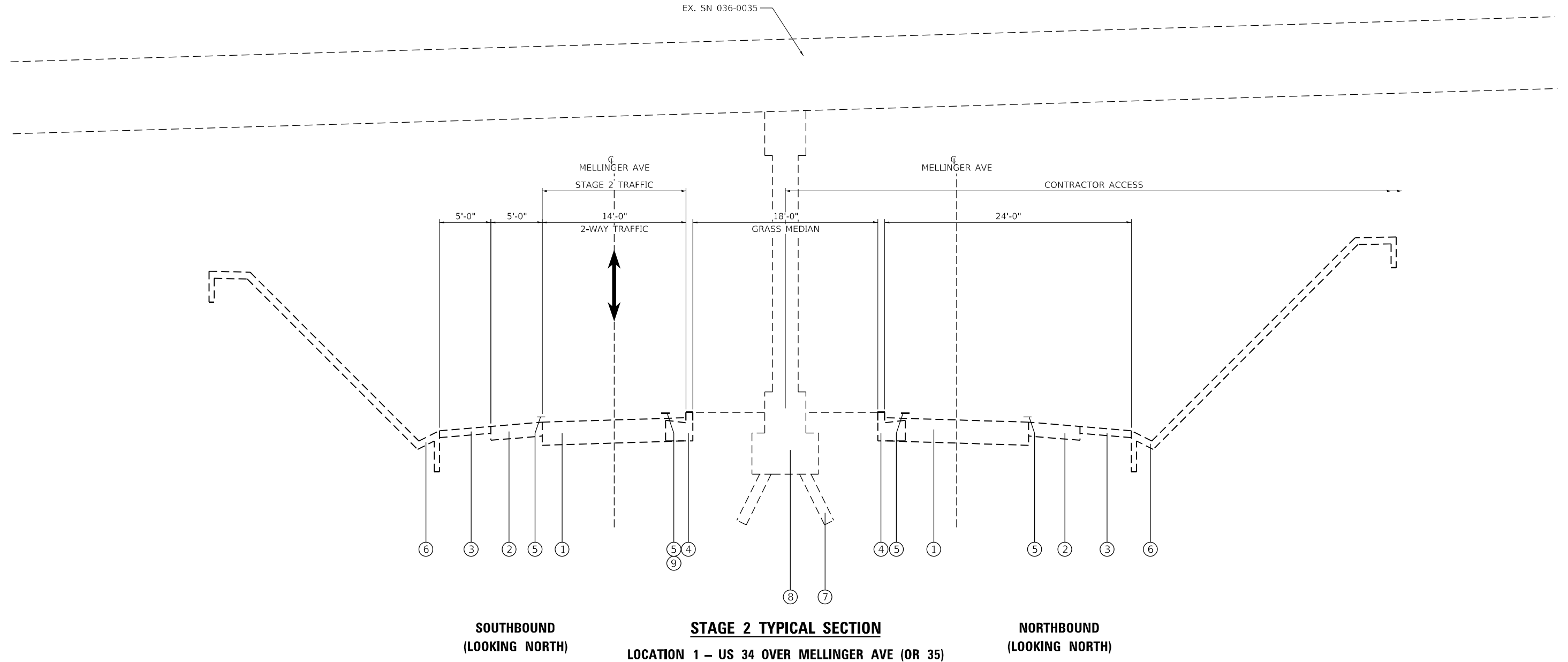
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VAR	D4 BRIDGE PAINTING 2026	VAR	136	8
CONTRACT NO. 68K62			ILLINOIS FED. AID PROJECT	

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION STANDARD (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING HMA SHOULDER
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING PAVEMENT MARKING
- ⑥ EXISTING CONCRETE SLOPE WALL, 4"
- ⑦ EXISTING CONCRETE PILES
- ⑧ EXISTING CONCRETE PIER
- ⑨ TEMPORARY PAVEMENT MARKING TAPE, 5"



**SOUTHBOUND
(LOOKING NORTH)**

**STAGE 2 TYPICAL SECTION
LOCATION 1 – US 34 OVER MELLINGER AVE (OR 35)**

**NORTHBOUND
(LOOKING NORTH)**

MODEL: D:\p\h\h
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PLOT SCALE = 10,0000 * / in.	DRAWN - BCS	REVISED -
PLOT DATE = 9/11/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

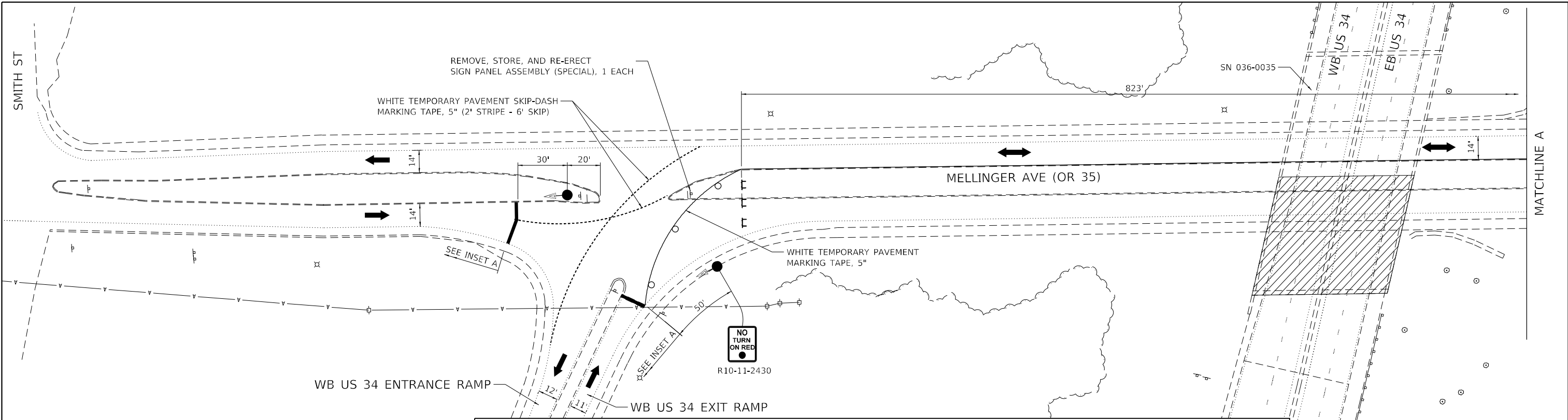
DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -
CHECKED - TBP	REVISED -
DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 – STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 1**

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	9
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

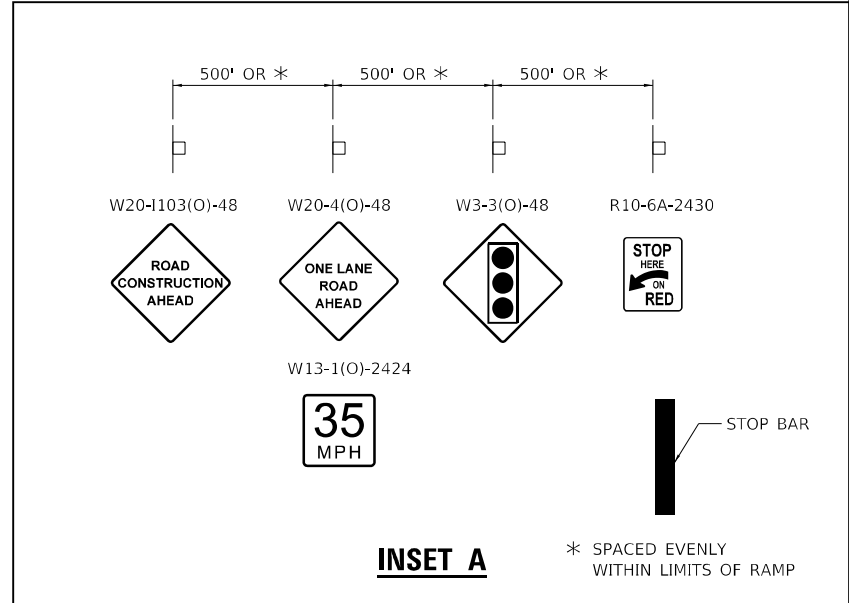
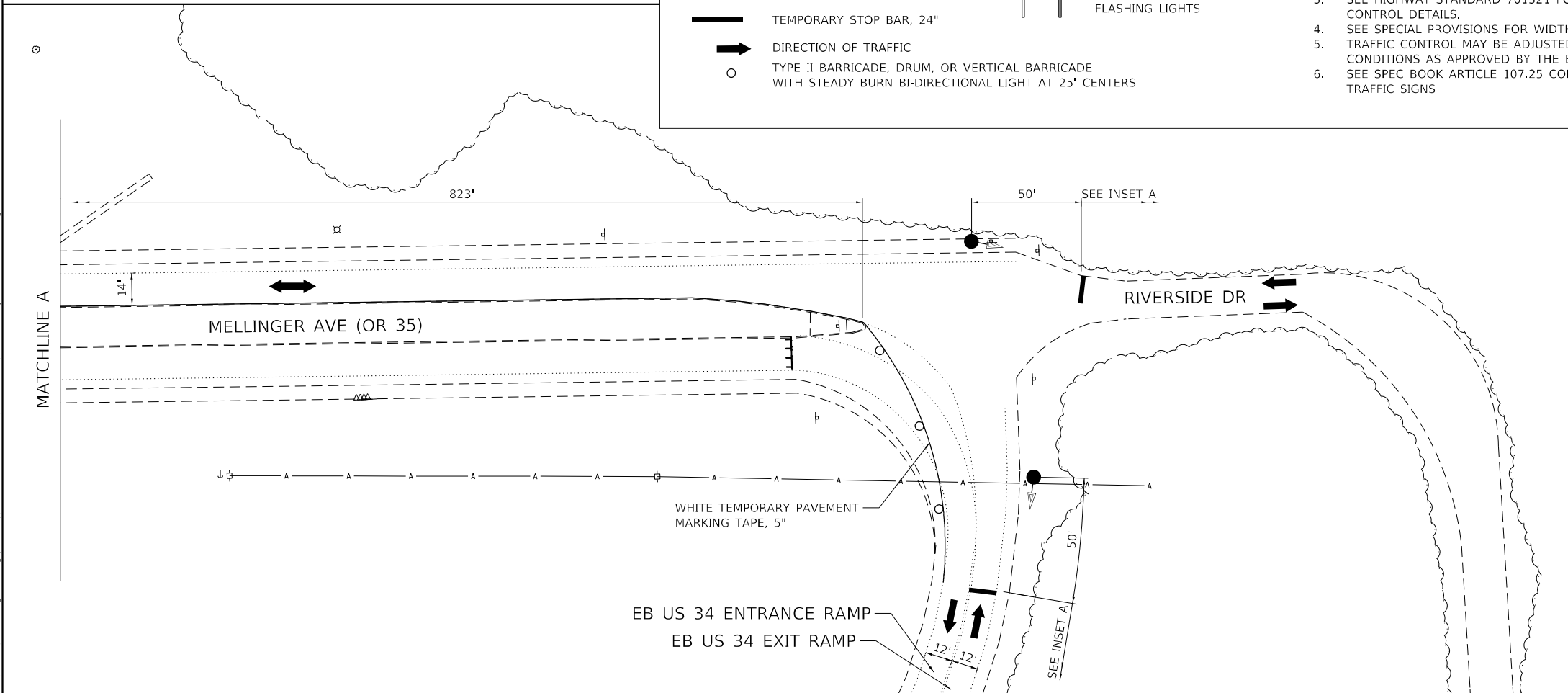
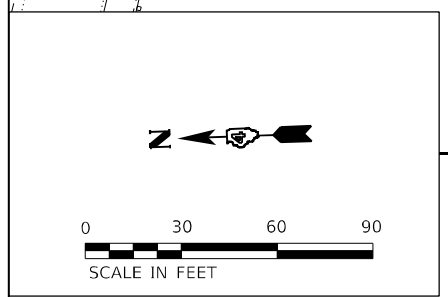


LEGEND

- CONTRACTOR ACCESS (RDWY)
- EXISTING STOP BAR
- TEMPORARY STOP BAR, 24"
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT AT 25' CENTERS
- TRAFFIC SIGNAL
- TYPE III BARRICADE WITH FLASHING LIGHTS

NOTES

- TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD (SPECIAL).
- SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
- SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
- SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
- TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- SEE SPEC BOOK ARTICLE 107.25 CONCERNING CONFLICTING TRAFFIC SIGNS



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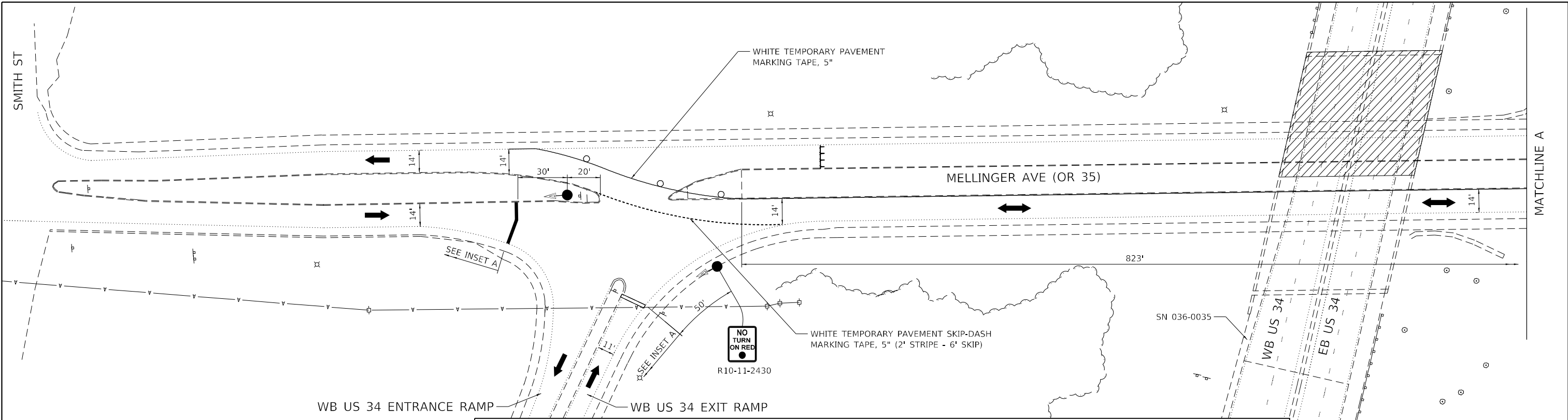
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DRAWN - BCS	REVISED -	
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PLOT DATE = 10/6/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 - STAGING PLAN
STRUCTURE LOCATION 1**

SCALE: 1"=30' SHEET 1 OF 2 SHEETS STA. TO STA.

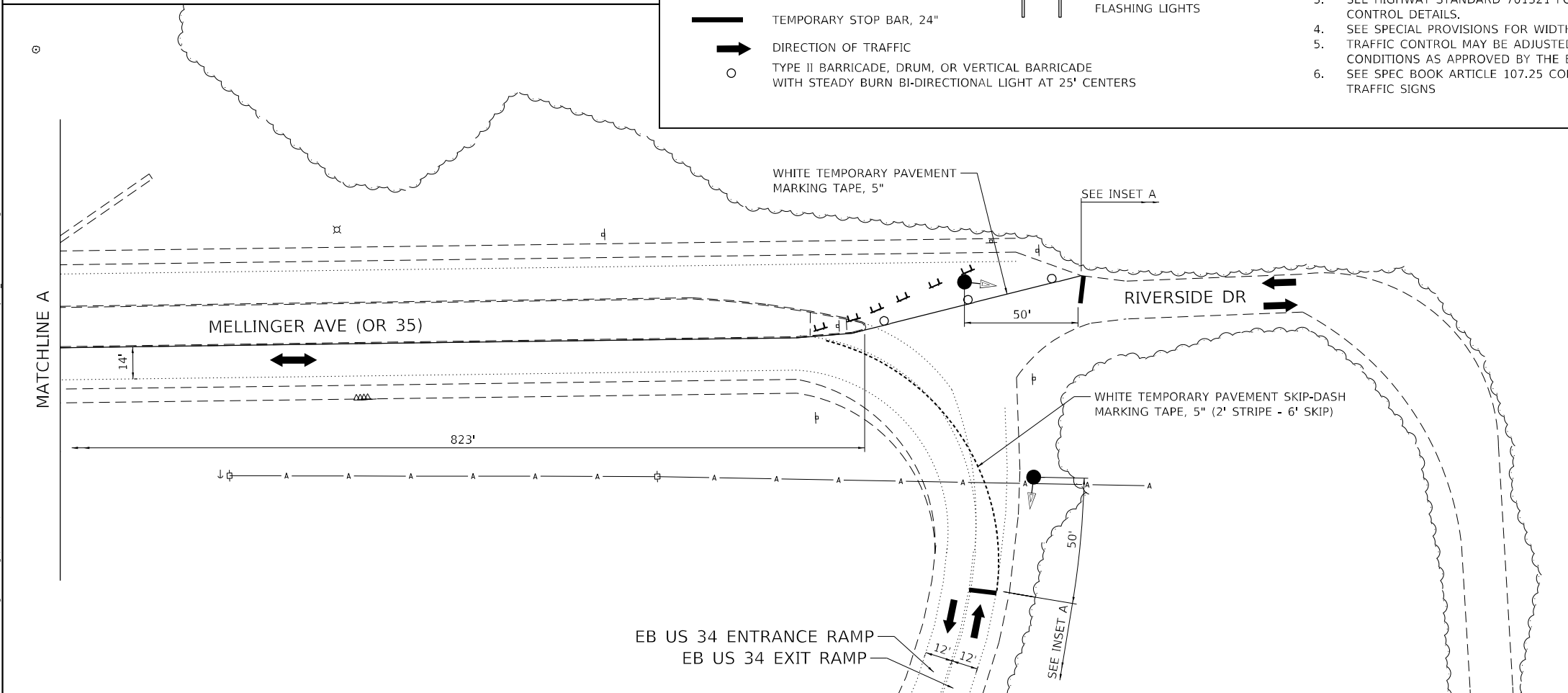
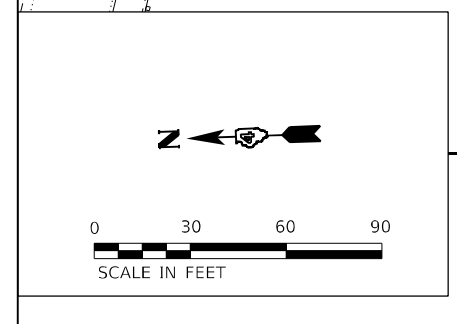
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	10
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				



LEGEND

- CONTRACTOR ACCESS (RDWY)
- EXISTING STOP BAR
- TEMPORARY STOP BAR, 24"
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT AT 25' CENTERS
- TRAFFIC SIGNAL
- TYPE III BARRICADE WITH FLASHING LIGHTS

- NOTES**
1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD (SPECIAL).
 2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
 3. SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
 4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
 5. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
 6. SEE SPEC BOOK ARTICLE 107.25 CONCERNING CONFLICTING TRAFFIC SIGNS



INSET A

* SPACED EVENLY WITHIN LIMITS OF RAMP

- W20-1103(O)-48
- W20-4(O)-48
- W3-3(O)-48
- R10-6A-2430
- W13-1(O)-2424
- STOP BAR

MODEL: D:\p\h\...
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TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES

IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = dllee	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISOR -	
PLOT SCALE = 60,0000 */ in.	CHECKED - TBP	REVISOR -
PLOT DATE = 10/6/2025	DATE - SEPT 2025	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2 - STAGING PLAN
 STRUCTURE LOCATION 1**

SCALE: 1"=30' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	11
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

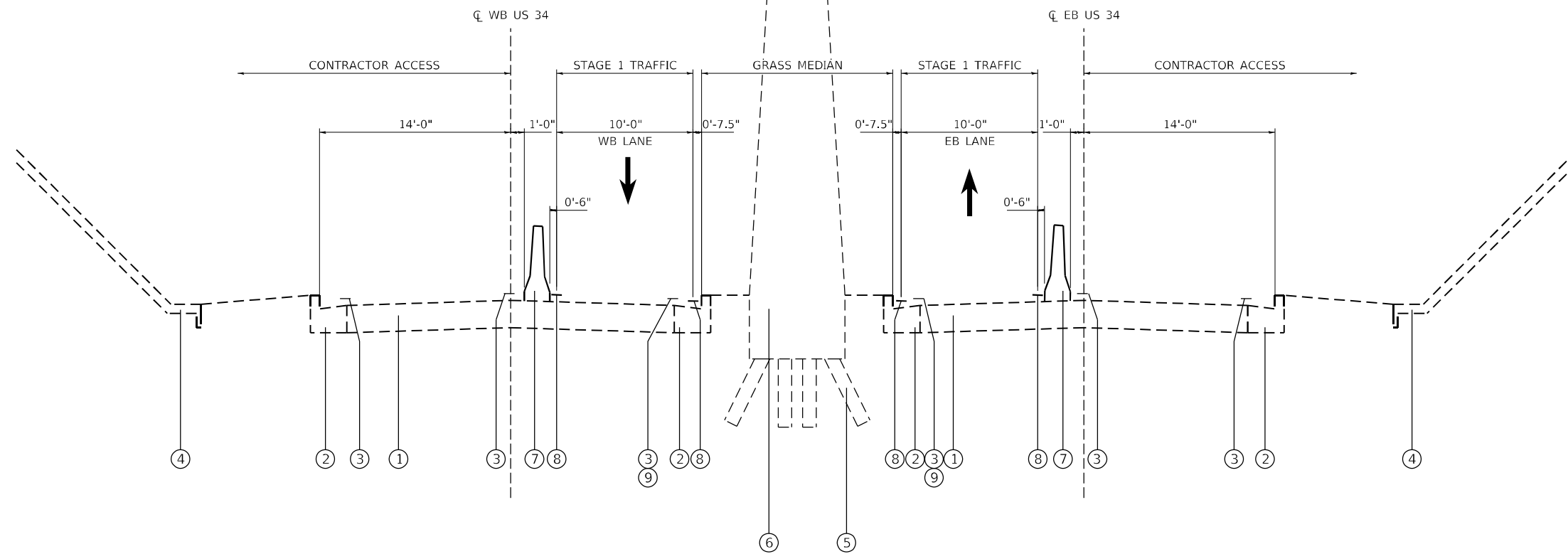
NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701423 (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING CURB AND GUTTER, TY B-6.24
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING CONCRETE SLOPE WALL, 4"
- ⑤ EXISTING CONCRETE PILES
- ⑥ EXISTING CONCRETE PIER
- ⑦ TEMPORARY CONCRETE BARRIER
- ⑧ TEMPORARY PAVEMENT MARKING TAPE, 5"
- ⑨ TEMPORARY PAVEMET MARKING BLACKOUT TAPE

EX. SN 048-0073/0074



**WESTBOUND
(LOOKING EAST)**

**STAGE 1 TYPICAL SECTION
LOCATION 2 & 3 - US 34 /W. MAIN**

**EASTBOUND
(LOOKING EAST)**

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	DRAWN - BCS	REVISED -
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PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 - STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 2 & 3**

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	12
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

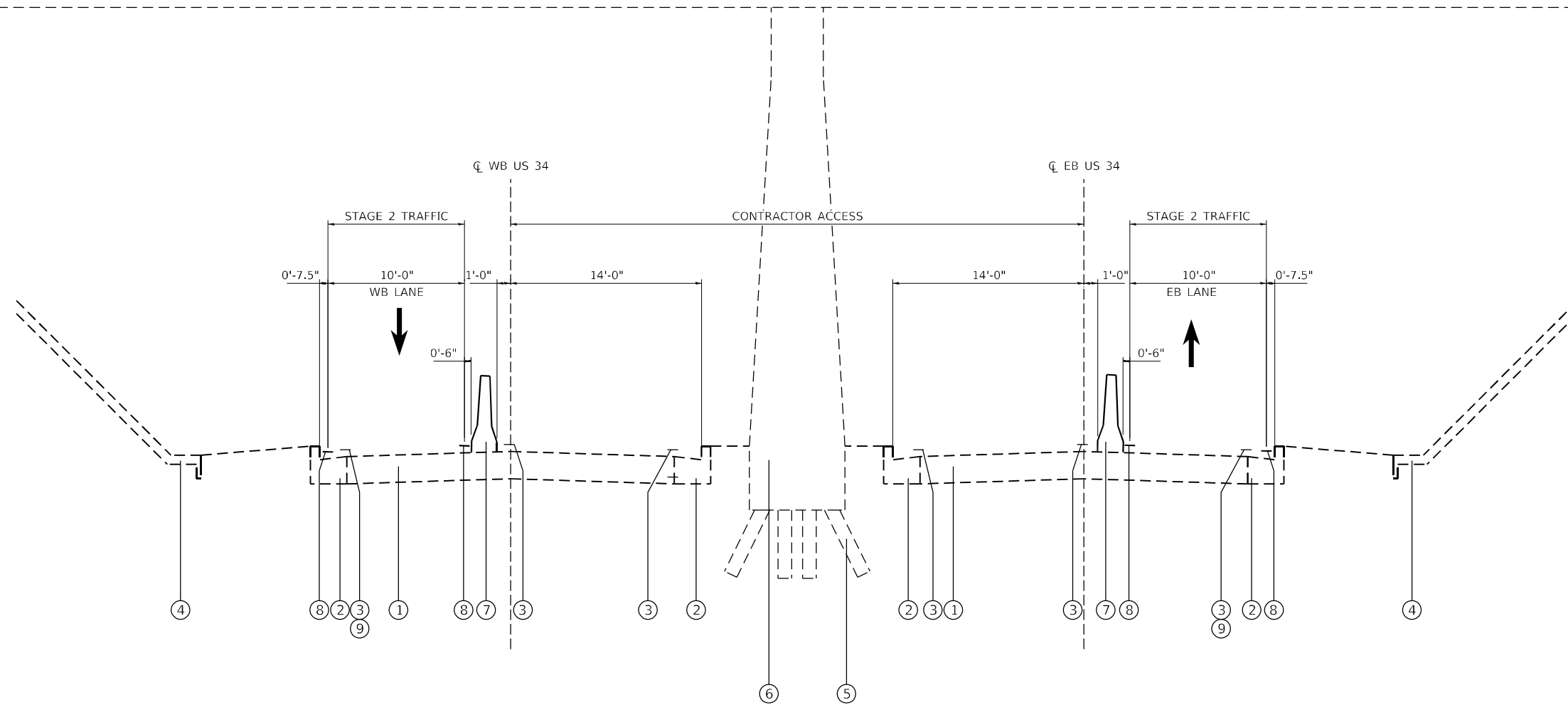
NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701423 (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING CURB AND GUTTER, TY B-6.24
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING CONCRETE SLOPE WALL, 4"
- ⑤ EXISTING CONCRETE PILES
- ⑥ EXISTING CONCRETE PIER
- ⑦ TEMPORARY CONCRETE BARRIER
- ⑧ TEMPORARY PAVEMENT MARKING TAPE, 5"
- ⑨ TEMPORARY PAVEMET MARKING BLACKOUT TAPE

EX. SN 048-0073/0074



**WESTBOUND
(LOOKING EAST)**

**STAGE 2 TYPICAL SECTION
LOCATION 2 & 3 - US 34 /W. MAIN**

**EASTBOUND
(LOOKING EAST)**

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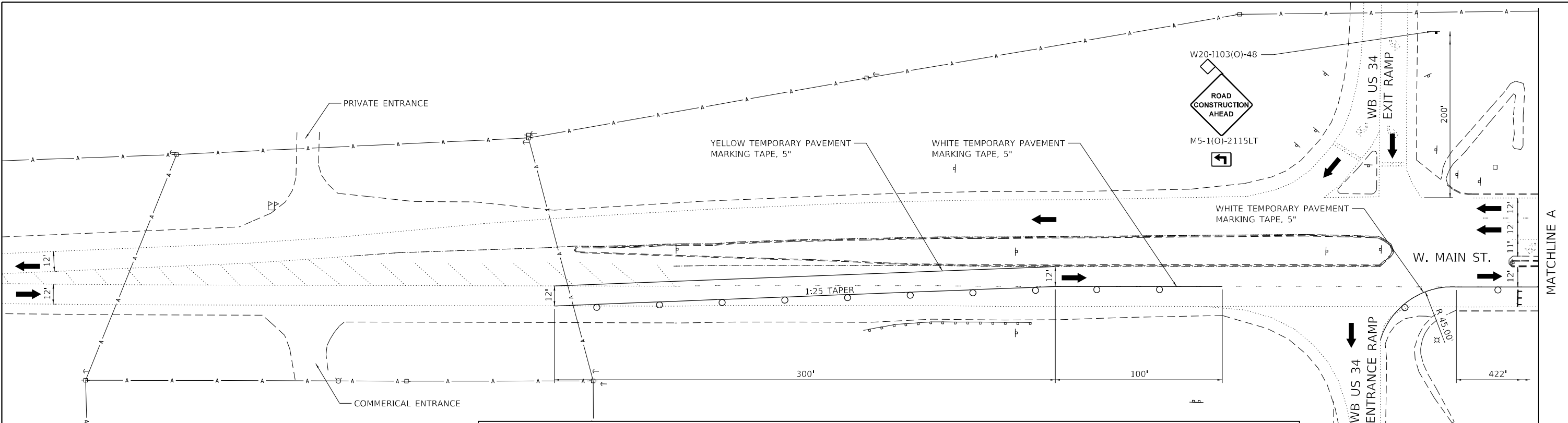
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PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 - STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 2 & 3**

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	13
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

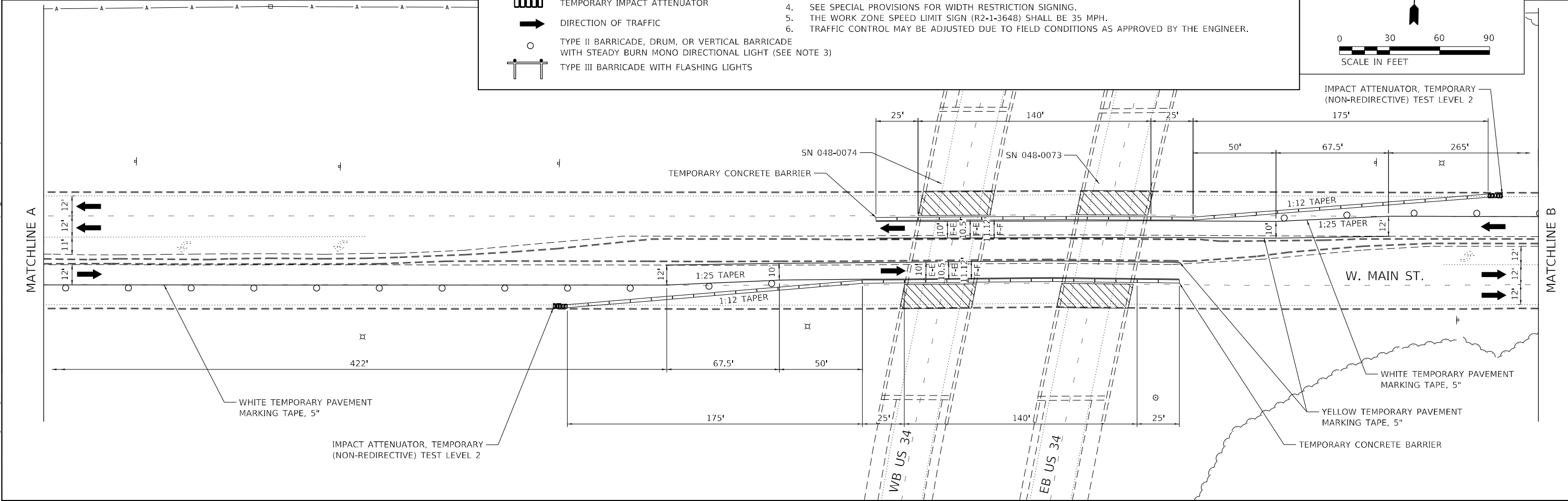
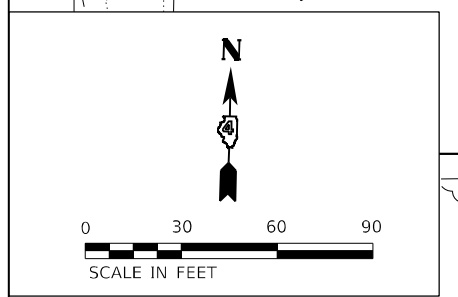


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT (SEE NOTE 3)
- TYPE III BARRICADE WITH FLASHING LIGHTS

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701423 (SPECIAL).
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701423 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
5. THE WORK ZONE SPEED LIMIT SIGN (R2-1-3648) SHALL BE 35 MPH.
6. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



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ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 60,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

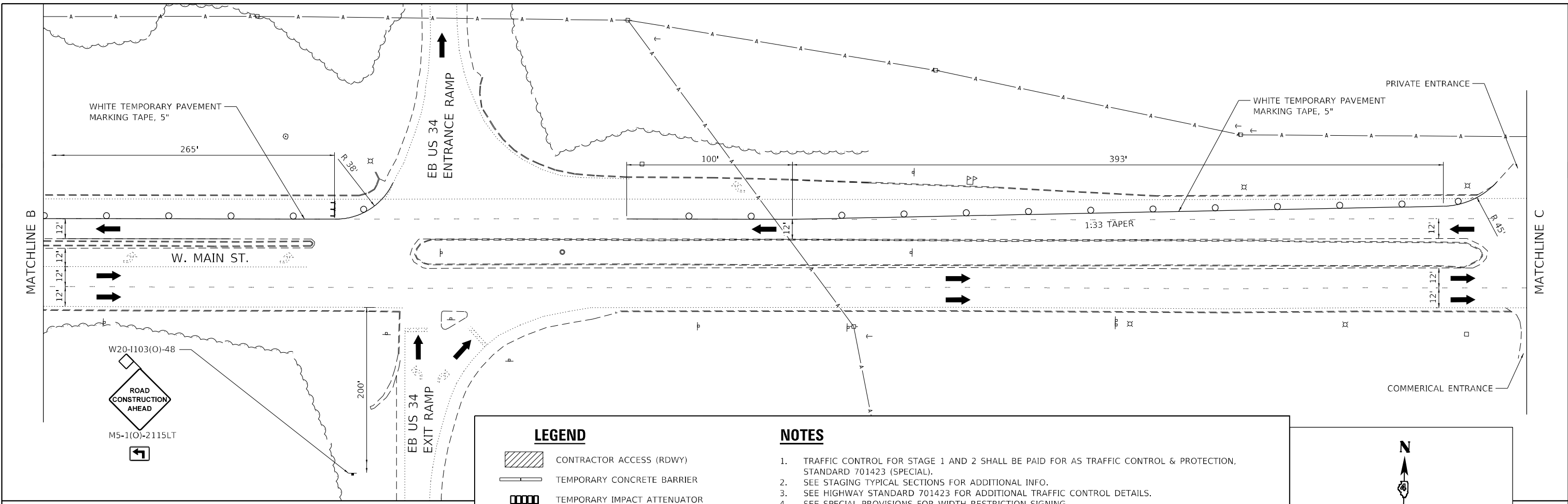
**STAGE 1 - STAGING PLAN
STRUCTURE LOCATIONS 2 & 3**

SCALE: 1"=30' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	14
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

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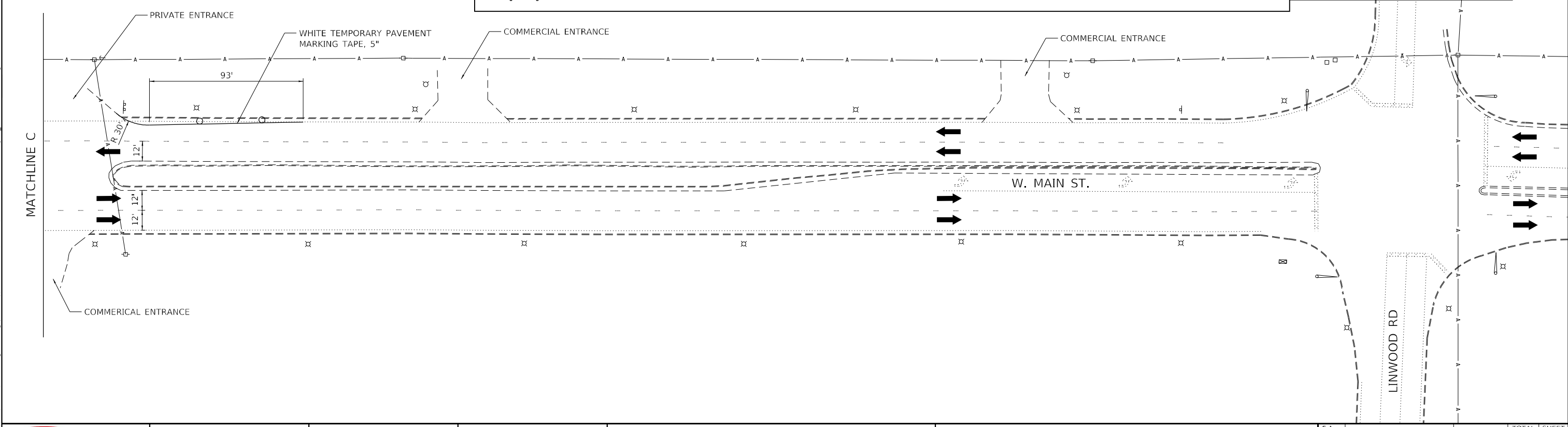
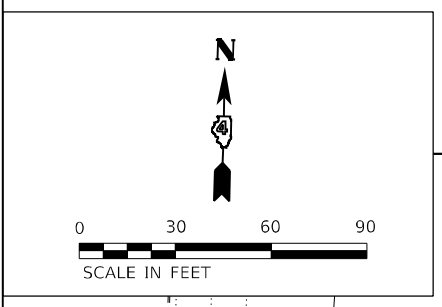
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 PLOT DATE: 9/11/2025



LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT (SEE NOTE 3)
- TYPE III BARRICADE WITH FLASHING LIGHTS

- NOTES**
1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701423 (SPECIAL).
 2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
 3. SEE HIGHWAY STANDARD 701423 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
 4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
 5. THE WORK ZONE SPEED LIMIT SIGN (R2-1-3648) SHALL BE 35 MPH.
 6. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



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 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO.: 184-001220

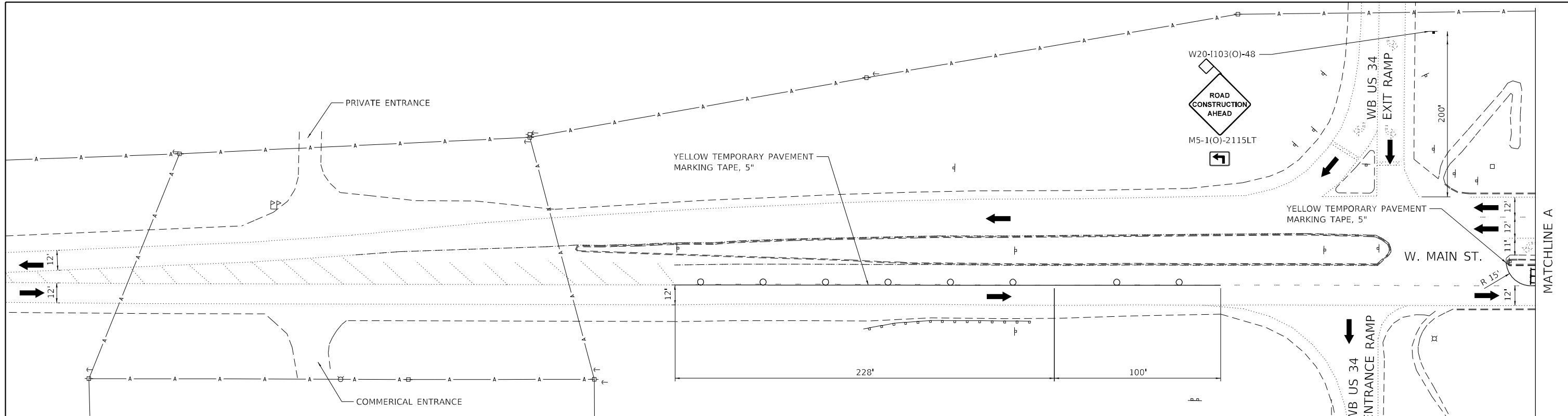
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DRAWN - BCS	REVISED -	
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PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 - STAGING PLAN
STRUCTURE LOCATIONS 2 & 3

SCALE: 1"=30' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	15
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

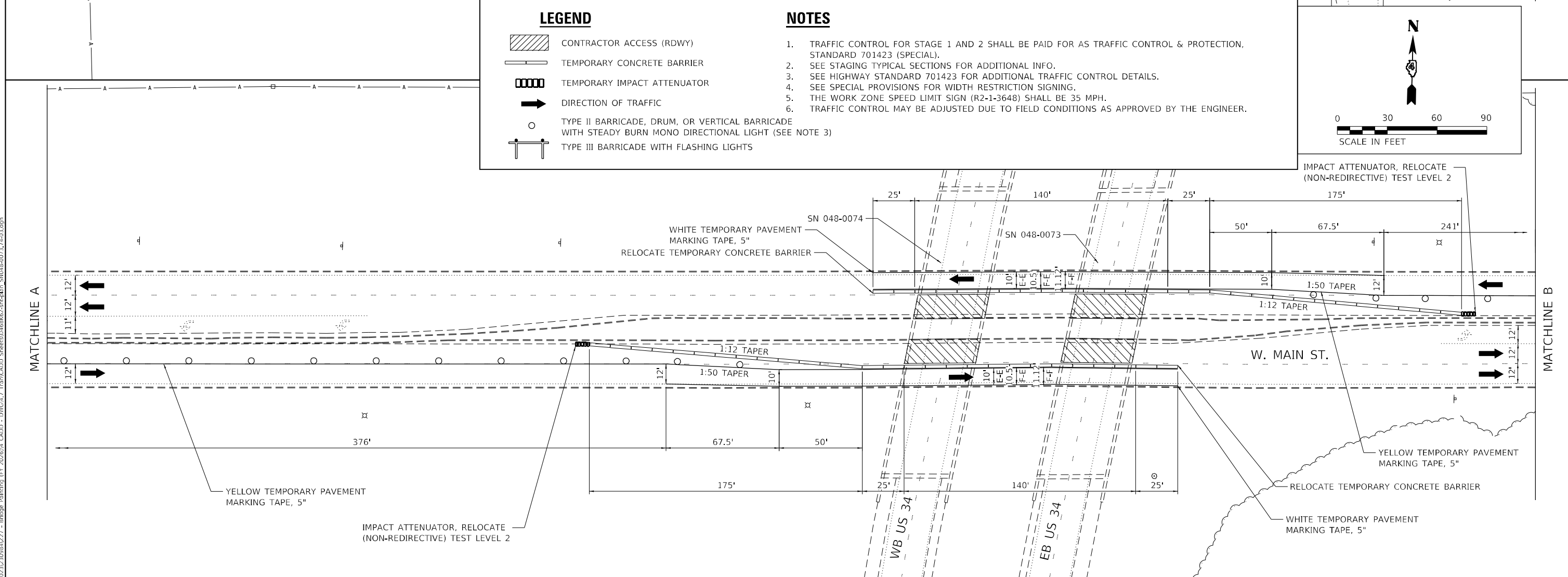


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT (SEE NOTE 3)
- TYPE III BARRICADE WITH FLASHING LIGHTS

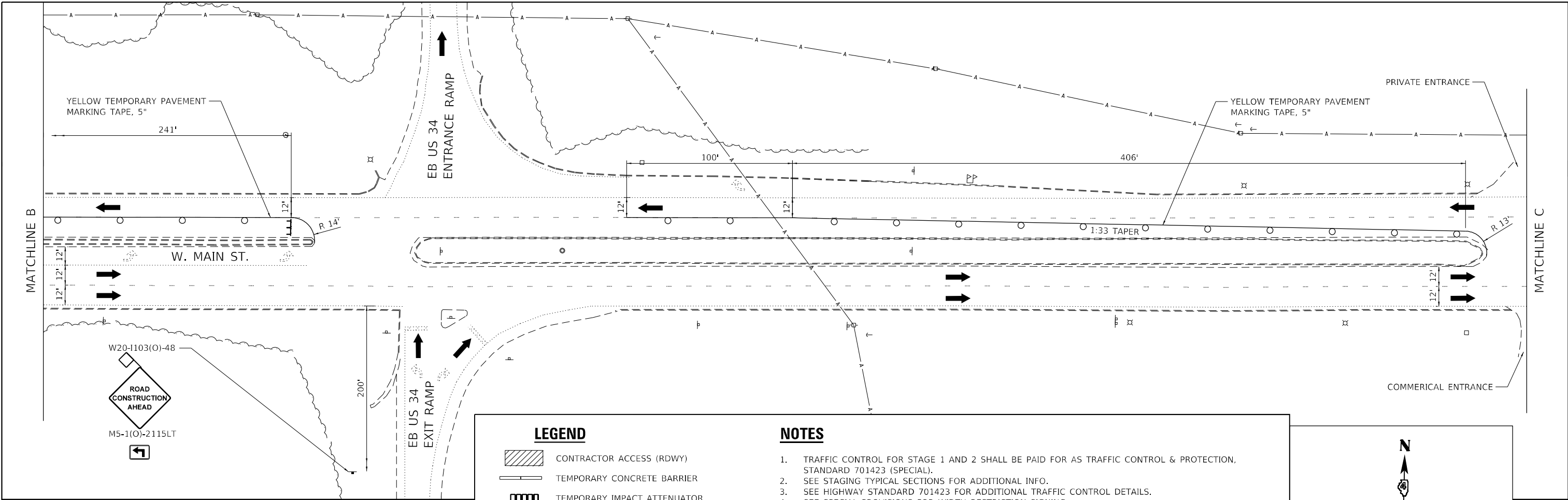
NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701423 (SPECIAL).
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701423 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
5. THE WORK ZONE SPEED LIMIT SIGN (R2-1-3648) SHALL BE 35 MPH.
6. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



	USER NAME = bstambaugh PLOT SCALE = 60,0000 * / in. PLOT DATE = 9/11/2025	DESIGNED - BCS DRAWN - BCS CHECKED - TBP DATE - SEPT 2025	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 - STAGING PLAN STRUCTURE LOCATIONS 2 & 3			F.A. RTE. VAR	SECTION D4 BRIDGE PAINTING 2026	COUNTY VAR	TOTAL SHEETS 136	SHEET NO. 16
	SCALE: 1"=30' SHEET 3 OF 4 SHEETS STA. TO STA.							ILLINOIS FED. AID PROJECT		CONTRACT NO. 68K62		

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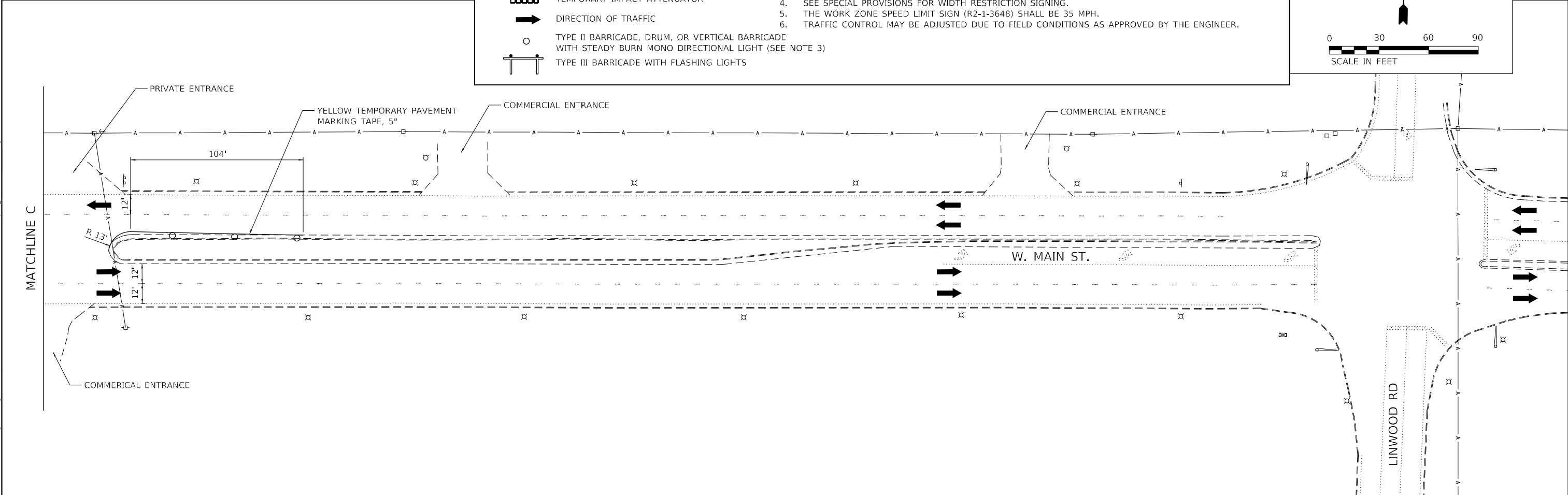
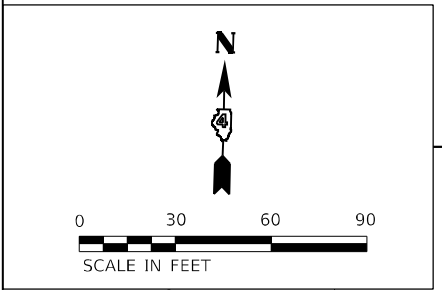


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT (SEE NOTE 3)
- TYPE III BARRICADE WITH FLASHING LIGHTS

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701423 (SPECIAL).
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701423 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
5. THE WORK ZONE SPEED LIMIT SIGN (R2-1-3648) SHALL BE 35 MPH.
6. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



MODEL: D:\p4\h\...
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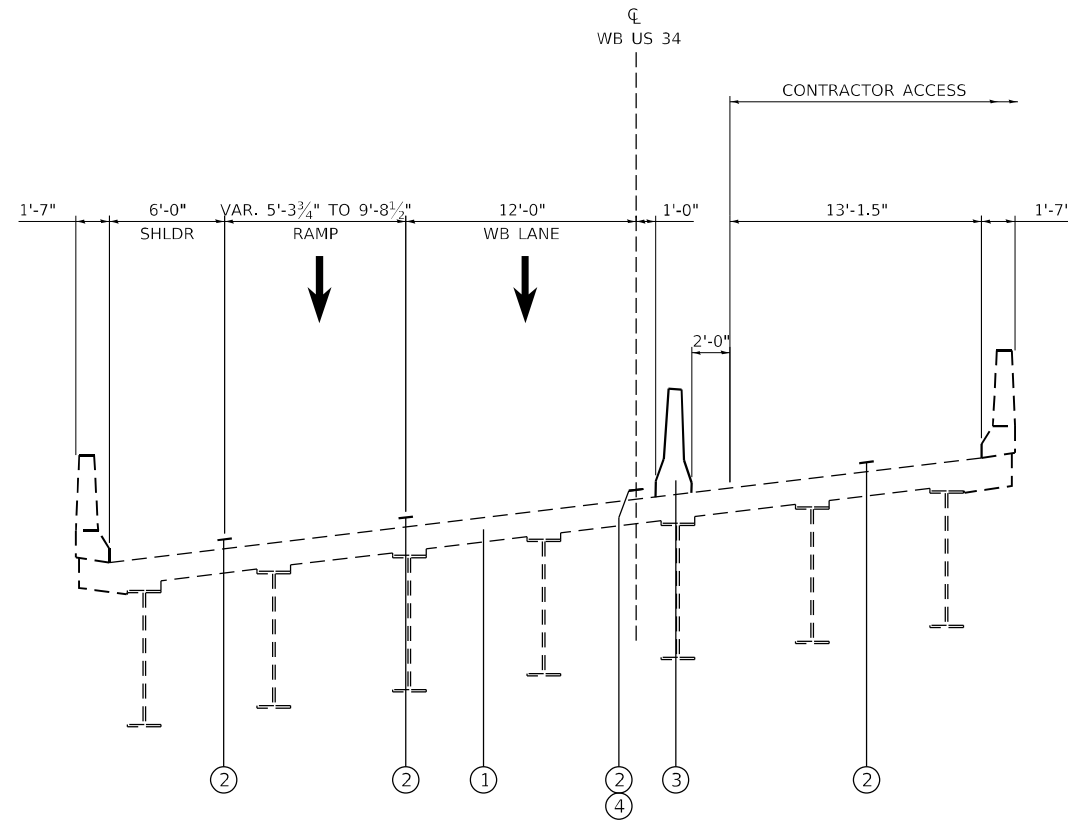
	USER NAME = bstambaugh PLOT SCALE = 60,0000 * / in. PLOT DATE = 9/11/2025	DESIGNED - BCS DRAWN - BCS CHECKED - TBP DATE - SEPT 2025	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 - STAGING PLAN STRUCTURE LOCATIONS 2 & 3	F.A. RTE. VAR	SECTION D4 BRIDGE PAINTING 2026	COUNTY VAR	TOTAL SHEETS 136	SHEET NO. 17
	SCALE: 1"=30' SHEET 4 OF 4 SHEETS STA. TO STA.						CONTRACT NO. 68K62 ILLINOIS FED. AID PROJECT			

NOTES

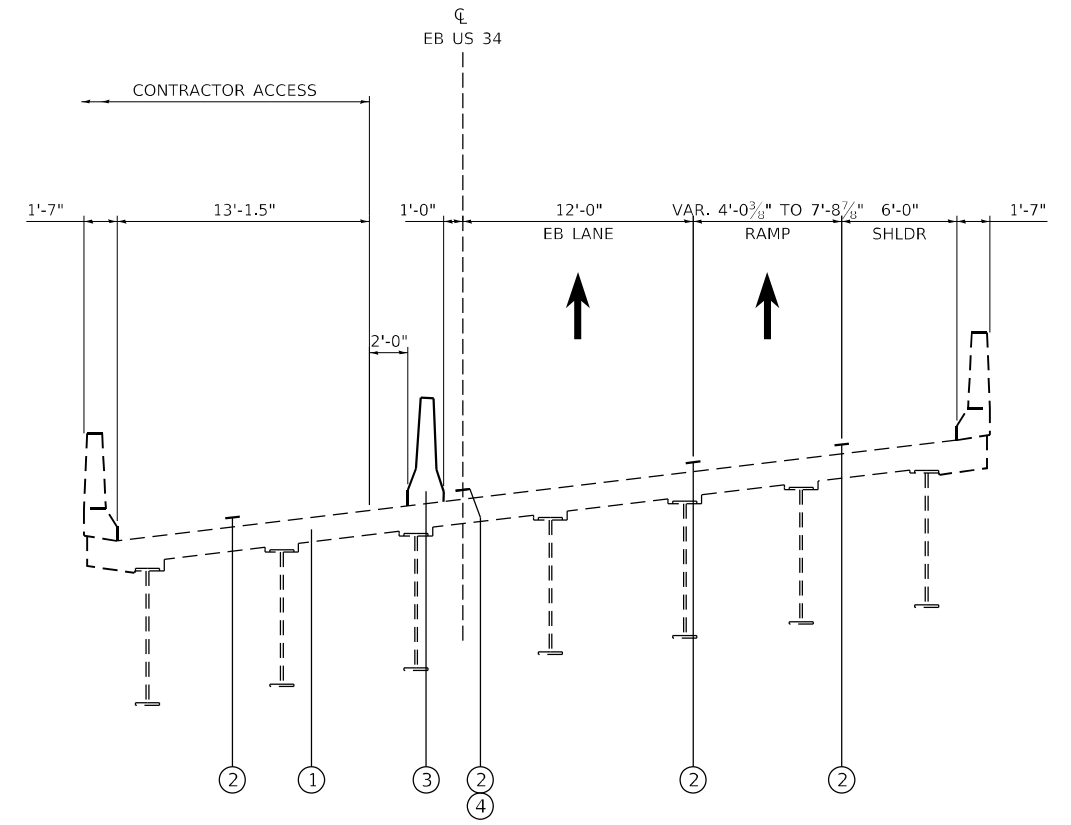
1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



**WESTBOUND
(LOOKING NORTH)**



**EASTBOUND
(LOOKING NORTH)**

**STAGE 1 TYPICAL SECTION
LOCATION 4 & 5 – US 34 OVER CEDAR CREEK**

MODEL: D:\p4\h\...
 FILE NAME: P:\2025\11_CADD - DWG\4.7_Traffic\CADD_Sheets\11468K62-eh-traffic_control_t1ys.dgn



TWM, INC.
 WWW.TWM-INC.COM
 ILLINOIS DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISIONS -	
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 – STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 4 & 5**

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

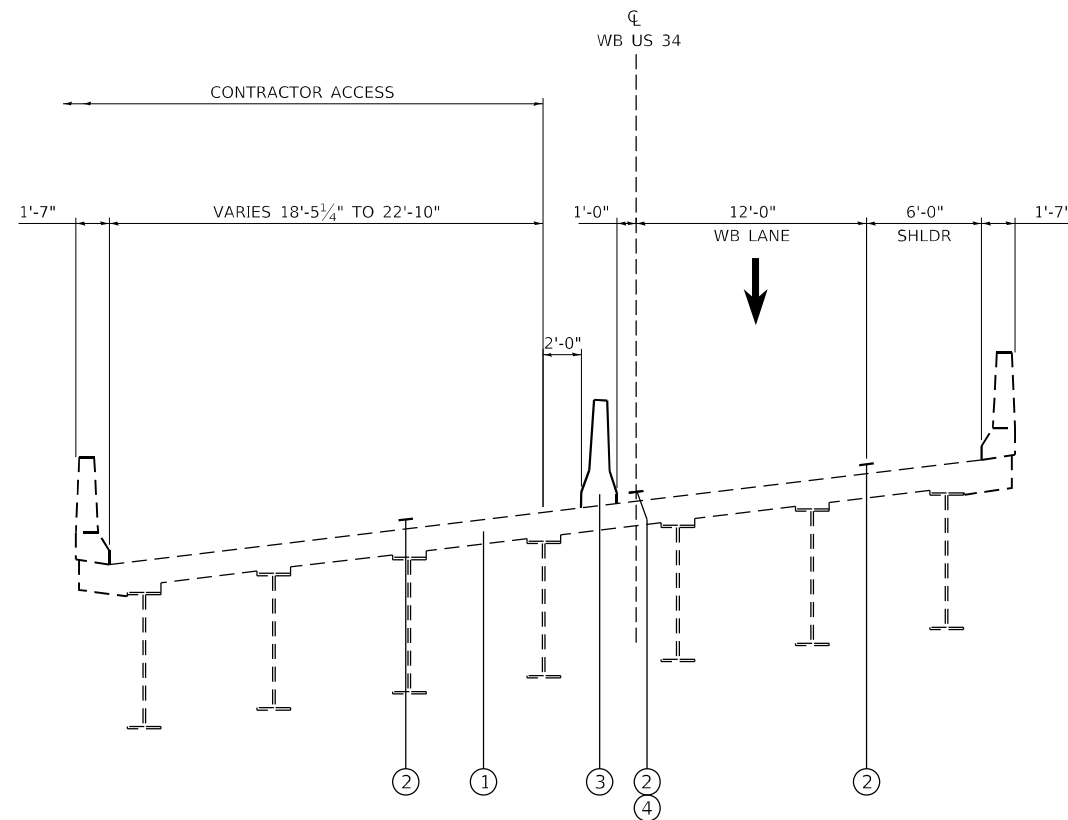
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	18
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

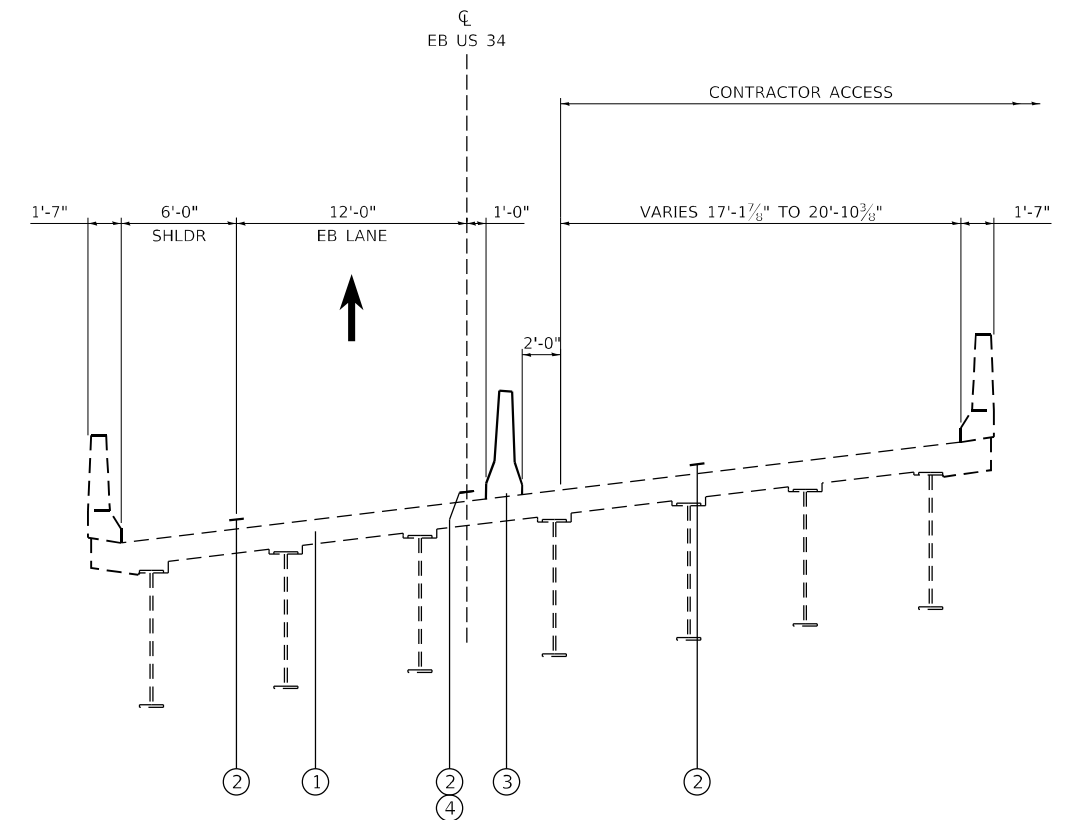
1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



**WESTBOUND
(LOOKING NORTH)**



**EASTBOUND
(LOOKING NORTH)**

**STAGE 2 TYPICAL SECTION
LOCATION 4 & 5 – US 34 OVER CEDAR CREEK**

MODEL: D:\p4\h\...
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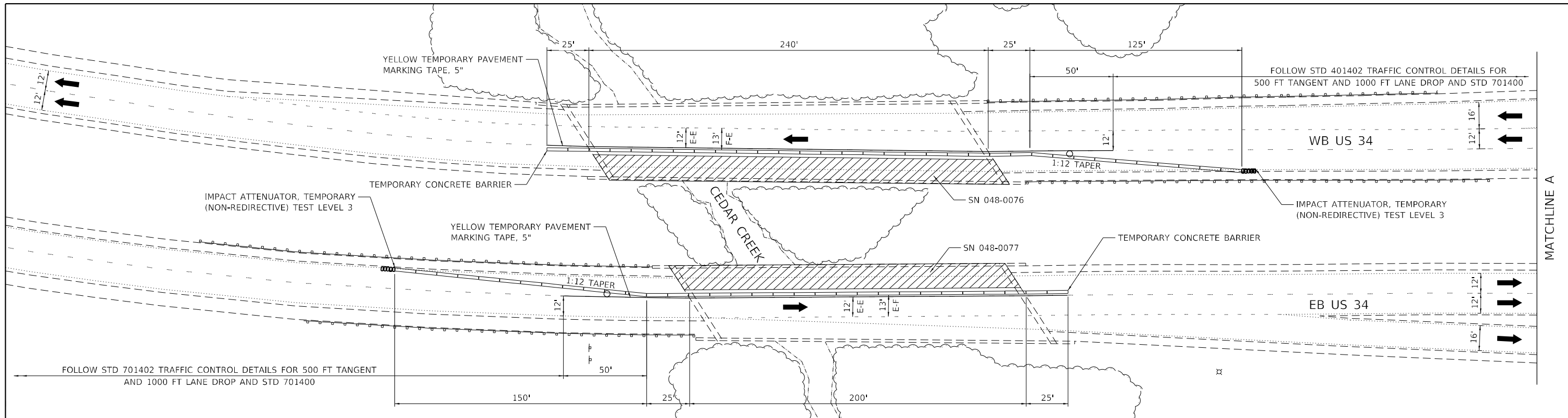
USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	DRAWN - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

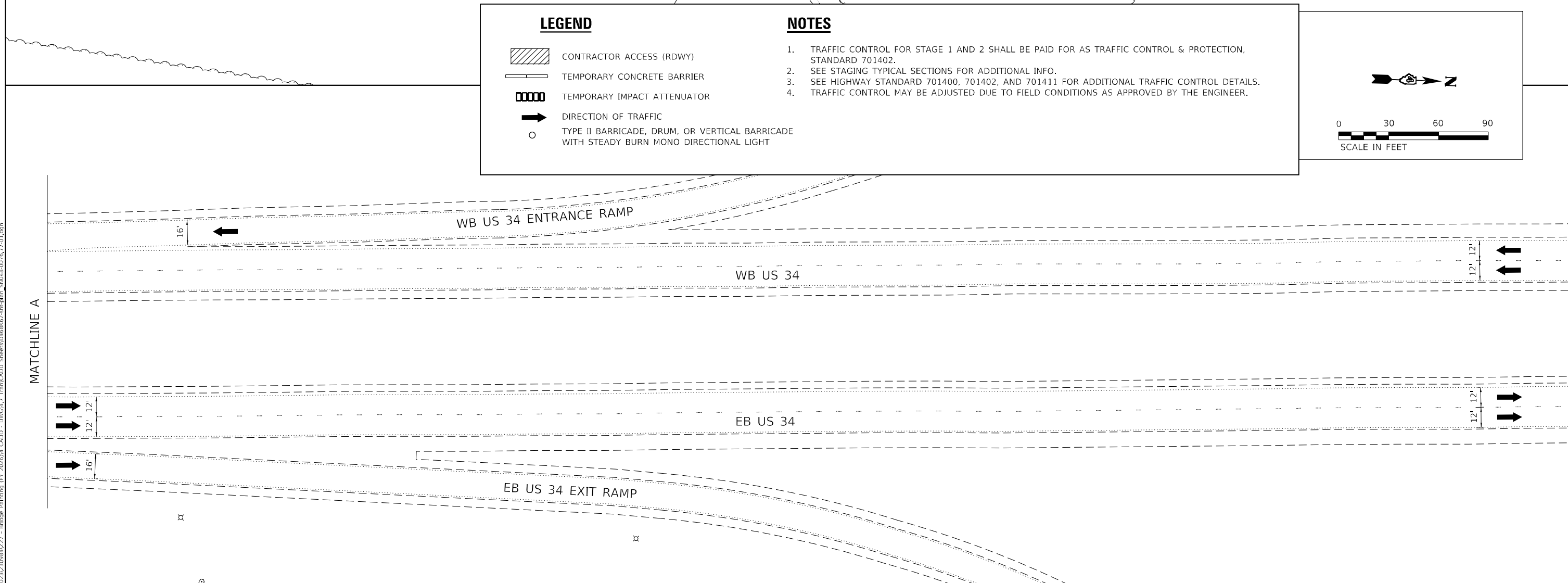
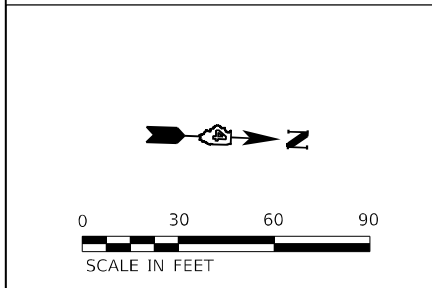
**STAGE 2 – STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 4 & 5**

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	19
CONTRACT NO. 68K62			ILLINOIS FED. AID PROJECT	

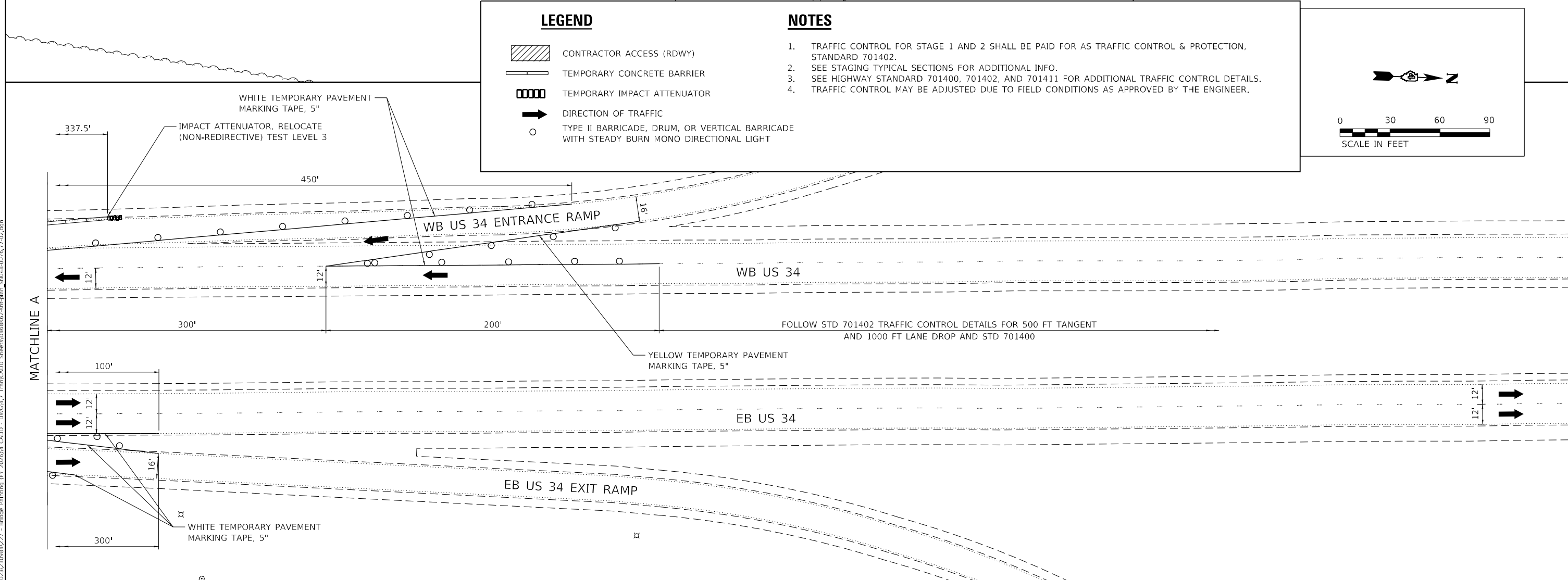
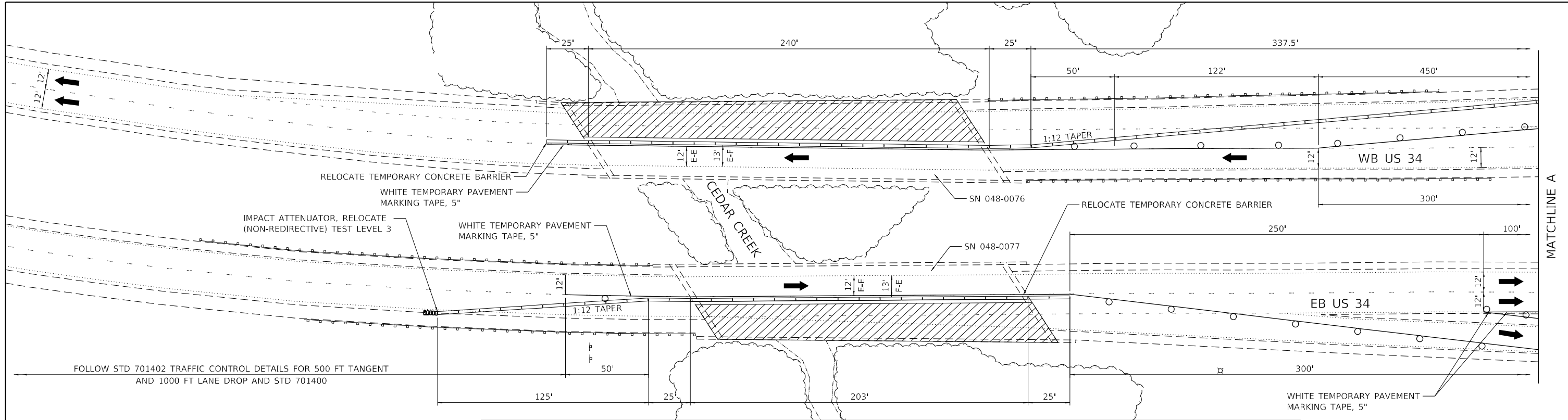


LEGEND		NOTES	
	CONTRACTOR ACCESS (RDWY)	1.	TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
	TEMPORARY CONCRETE BARRIER	2.	SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
	TEMPORARY IMPACT ATTENUATOR	3.	SEE HIGHWAY STANDARD 701400, 701402, AND 701411 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
	DIRECTION OF TRAFFIC	4.	TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT		



MODEL: D:\p4\h...
 FILE NAME: P:\2025\11_CADD - DWG\4.7_Tran\CADD_Sheets\468K62-eh-dwg_S18048-0076_77-01.dgn
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 FILE NAME: P:\2025\11_CADD - DWG\4.7_Tran\CADD_Sheets\468K62-eh-dwg_S18048-0076_77-01.dgn

 TWM, INC. WWW.TWM-INC.COM ILL. DESIGN FIRM LICENSE NO: 184-001220	USER NAME = bstambaugh DESIGNED - BCS DRAWN - BCS CHECKED - TBP DATE - SEPT 2025	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 - STAGING PLAN STRUCTURE LOCATIONS 4 & 5			F.A. RTE. VAR	SECTION D4 BRIDGE PAINTING 2026	COUNTY VAR	TOTAL SHEETS 136	SHEET NO. 20
	PLOT SCALE = 60,0000 * / in. PLOT DATE = 9/11/2025	SCALE: 1"=30' SHEET 1 OF 2 SHEETS STA. TO STA.		CONTRACT NO. 68K62 ILLINOIS FED. AID PROJECT							

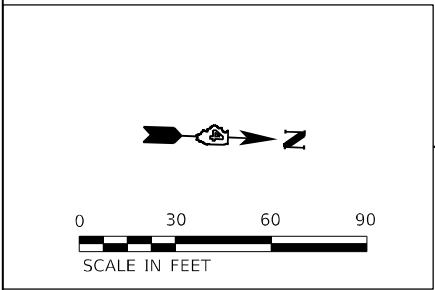


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701400, 701402, AND 701411 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



MODEL: D:\p\h\l
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TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	PLOT SCALE = 60,0000 * / in.	DRAWN - BCS	REVISED -
	PLOT DATE = 9/11/2025	CHECKED - TBP	REVISED -

DATE - SEPT 2025	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 - STAGING PLAN
STRUCTURE LOCATIONS 4 & 5**

SCALE: 1"=30' SHEET 2 OF 2 SHEETS STA. TO STA.

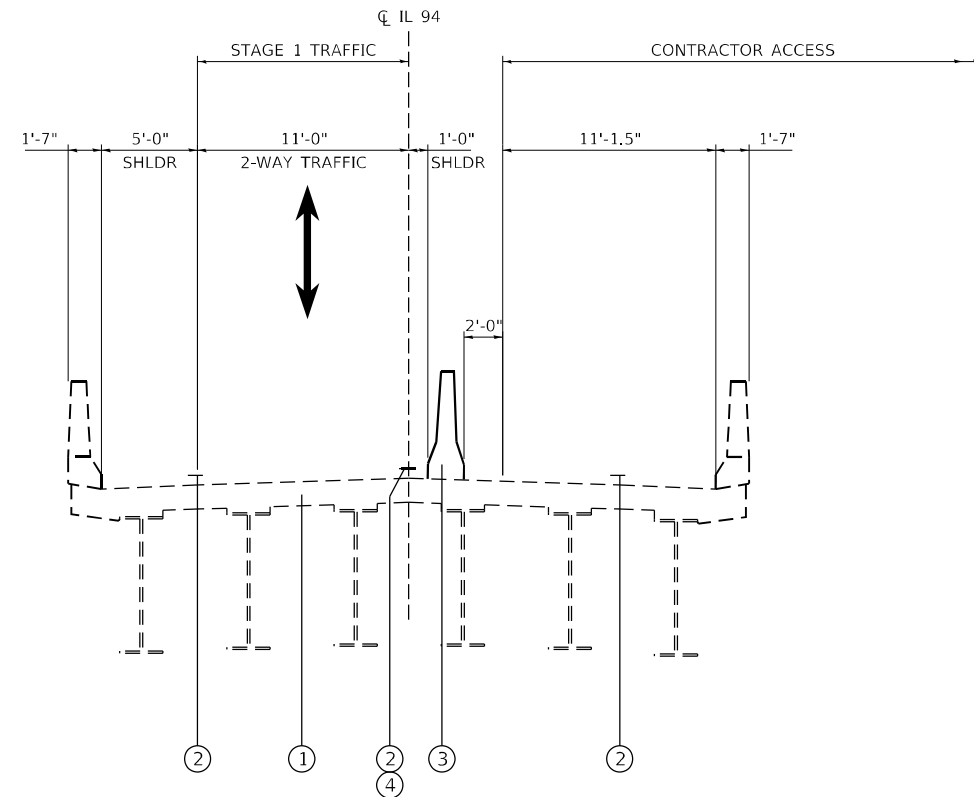
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	21
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

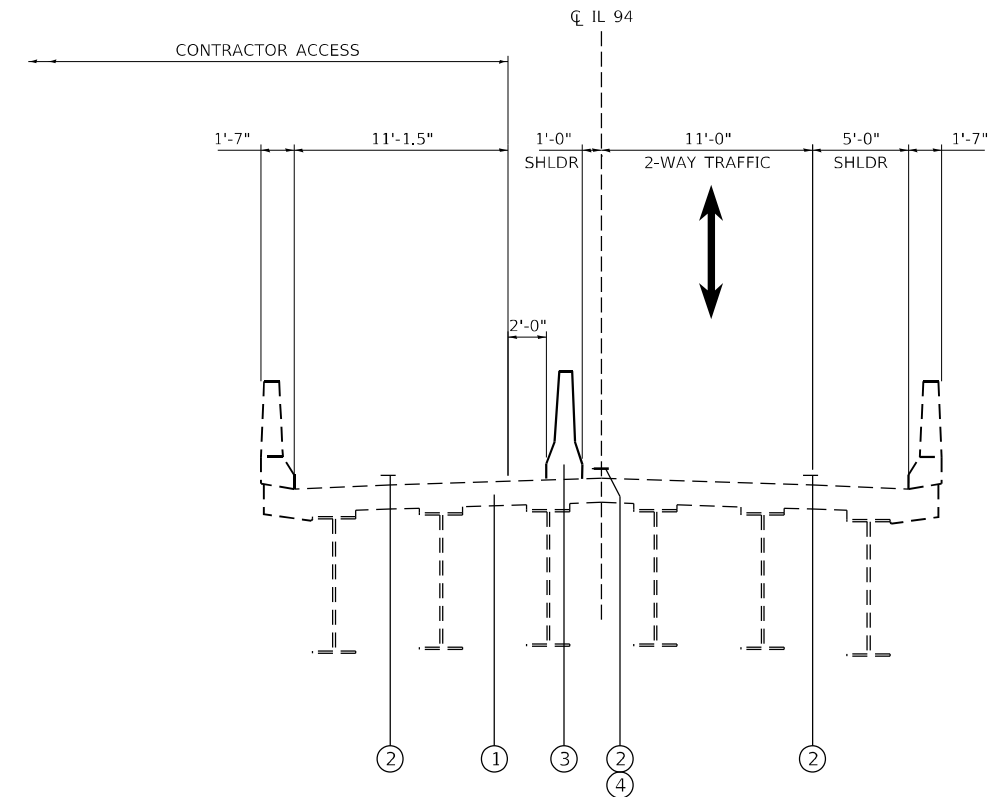
1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



STAGE 1 TYPICAL SECTION
LOCATION 6 – IL 94 OVER CAMP CREEK
(LOOKING NORTH)



STAGE 2 TYPICAL SECTION
LOCATION 6 – IL 94 OVER CAMP CREEK
(LOOKING NORTH)

MODEL: D:\p1\h...
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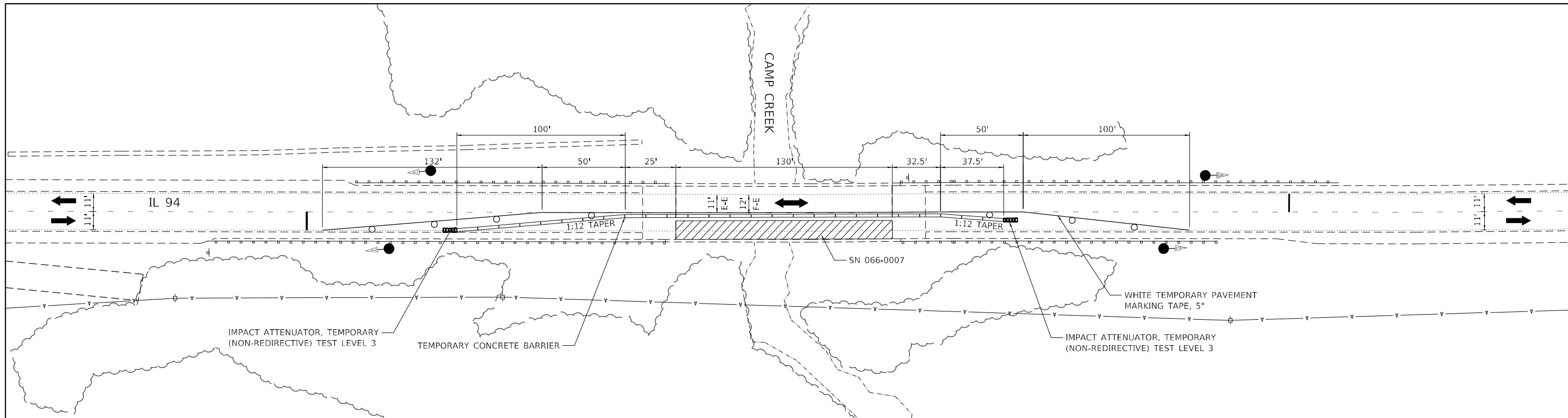


USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	DRAWN - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 & 2 – STAGING TYPICAL SECTIONS			
STRUCTURE LOCATION 6			
SCALE: 1"=5'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	22
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

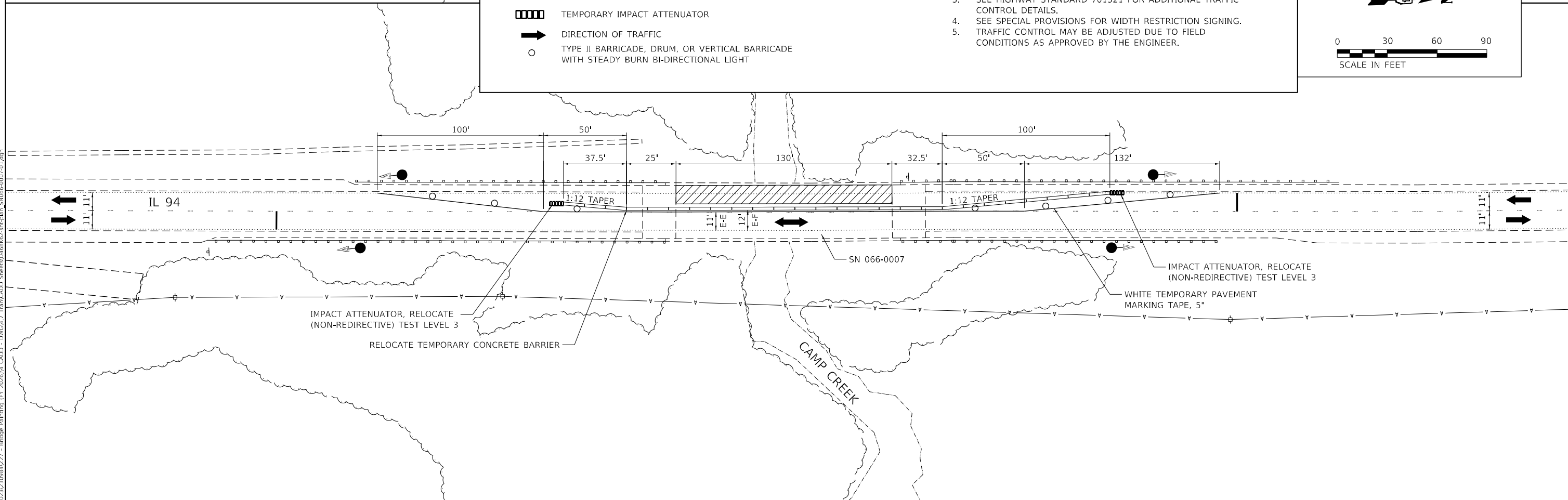
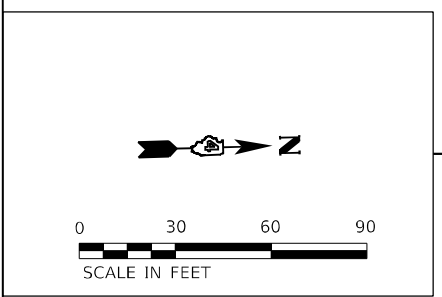


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
5. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



MODEL: D:\p1\11
 FILE NAME: P:\2025\IL_CADD - DWG\4.7_Tran\CADD_Sheets\066-0007-01.dwg
 2025\IL_CADD - DWG\4.7_Tran\CADD_Sheets\066-0007-01.dwg

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -	
DRAWN - BCS	REVISOR -		
PLOT SCALE = 60,0000 * / in.	CHECKED - TBP	REVISOR -	
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 & 2 - STAGING PLAN
STRUCTURE LOCATION 6

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.

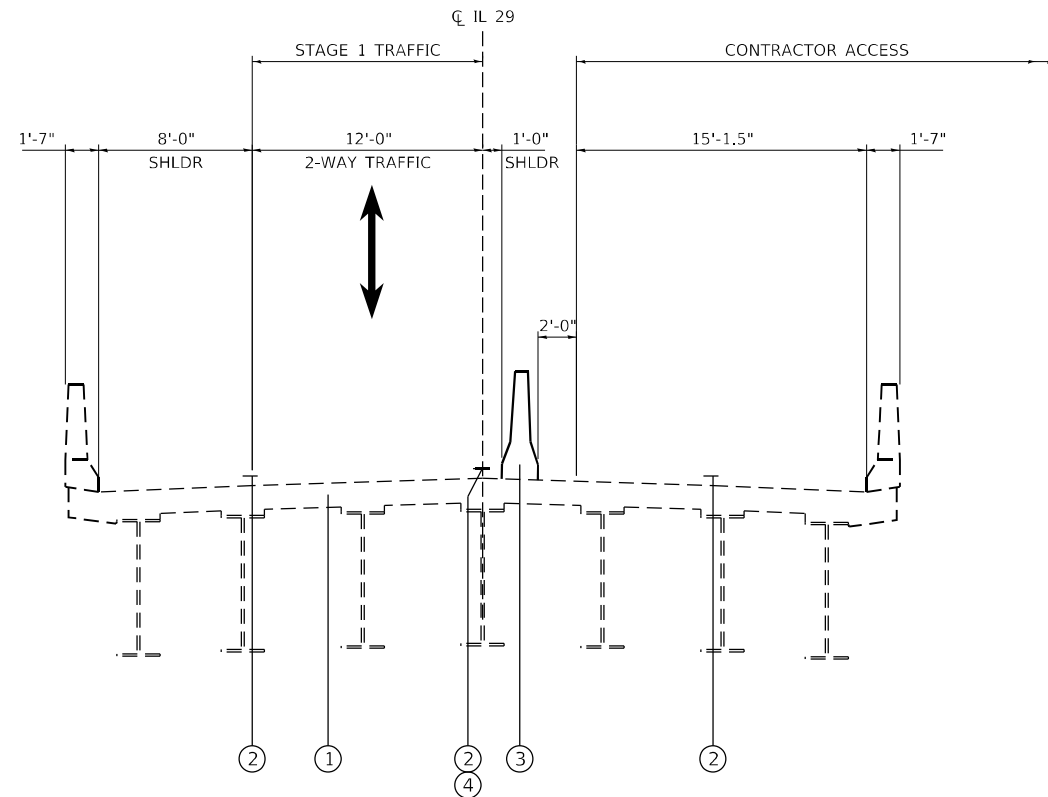
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	23
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

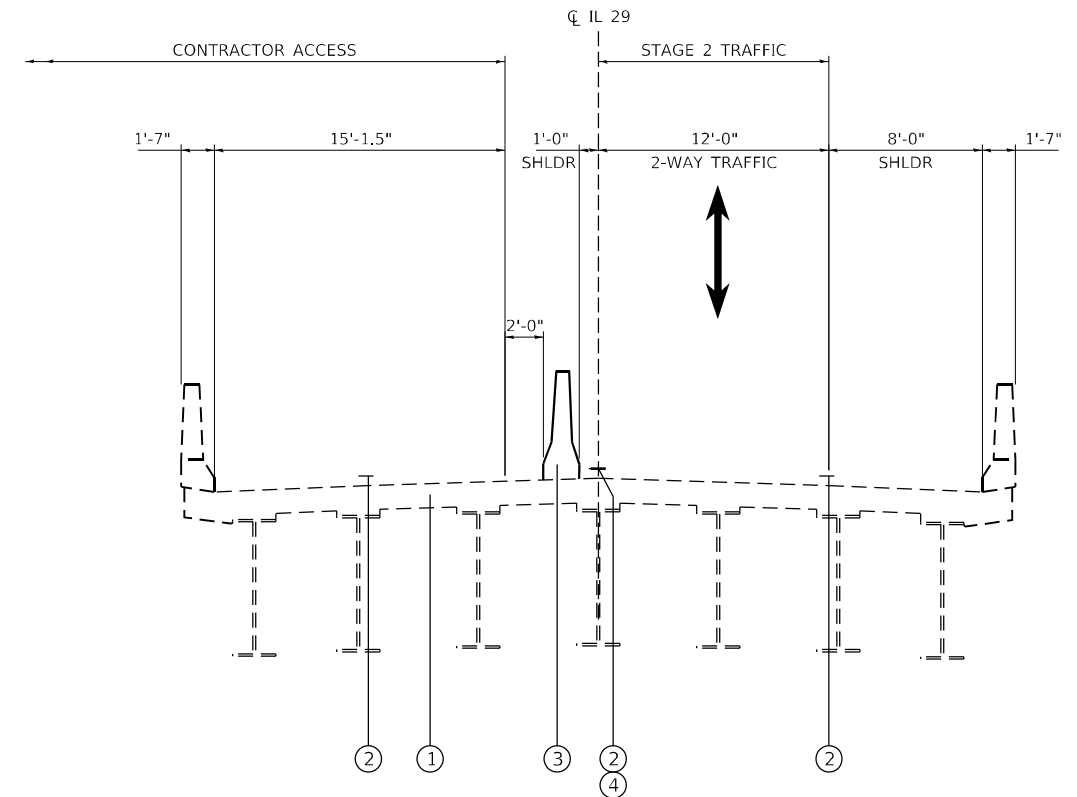
LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



STAGE 1 TYPICAL SECTION

**LOCATION 7 – IL 29 OVER SENECHWINE CREEK
(LOOKING NORTH)**



STAGE 2 TYPICAL SECTION

**LOCATION 7 – IL 29 OVER SENECHWINE CREEK
(LOOKING NORTH)**

MODEL: D:\p\h\...
 FILE NAME: P:\2025\IL_CADD - DWG\4.7_Traffic\Control - Stage 1 Traffic Control.dwg



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

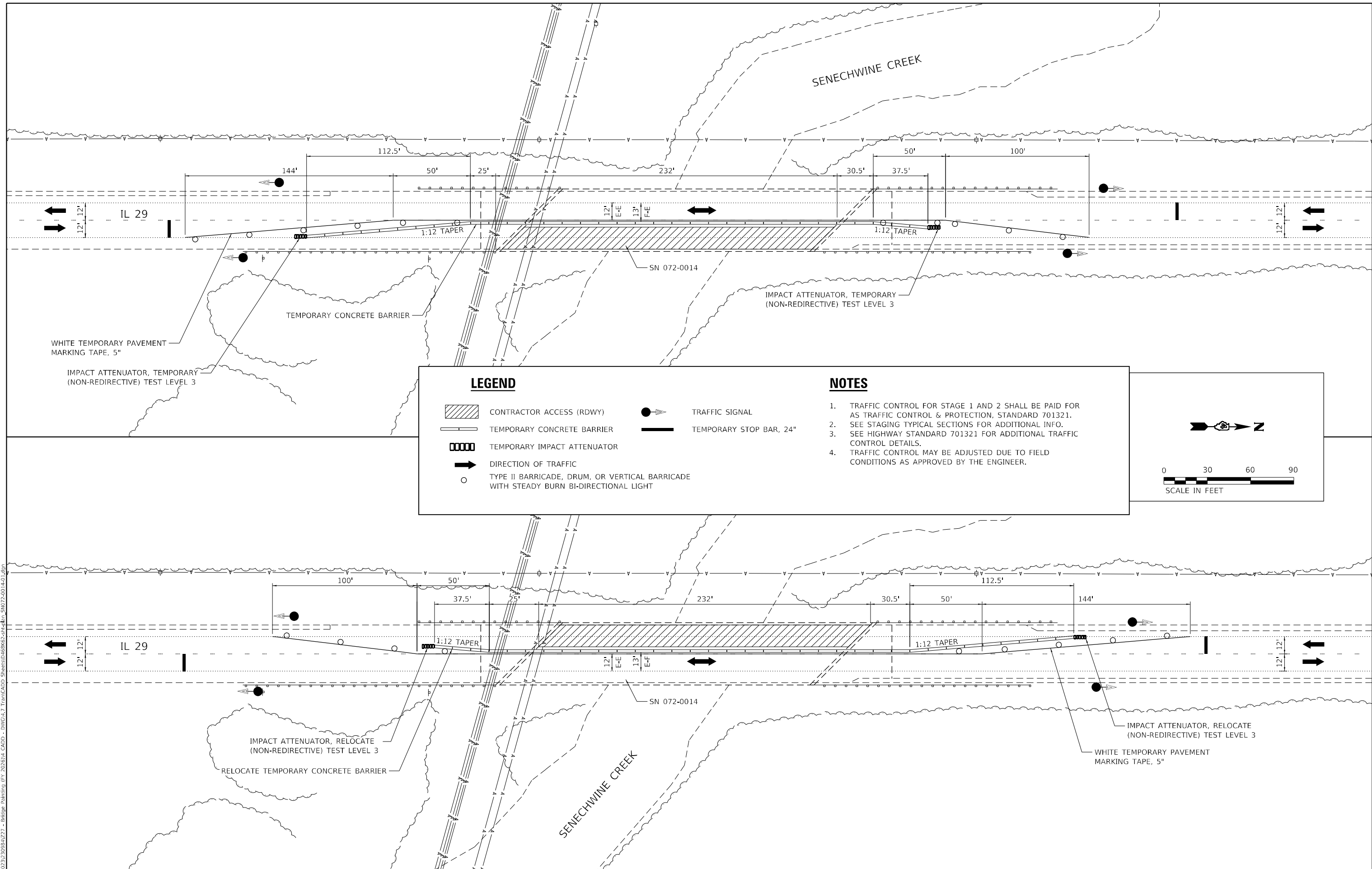
DRAWN - BCS	REVISED -
CHECKED - TBP	REVISED -
DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 & 2 – STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 7**

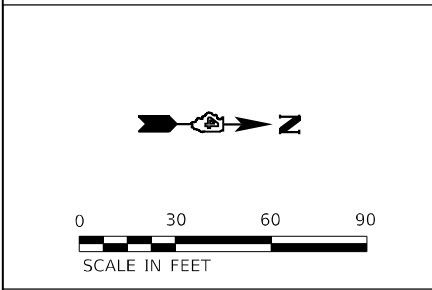
SCALE: 1"=5' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68K62	



LEGEND		NOTES	
	CONTRACTOR ACCESS (RDWY)		TRAFFIC SIGNAL
	TEMPORARY CONCRETE BARRIER		TEMPORARY STOP BAR, 24"
	TEMPORARY IMPACT ATTENUATOR		
	DIRECTION OF TRAFFIC		
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT		

- TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321.
- SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
- SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
- TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



MODEL: D:\p1\11
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 LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 60,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 & 2 - STAGING PLAN
STRUCTURE LOCATION 7

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.

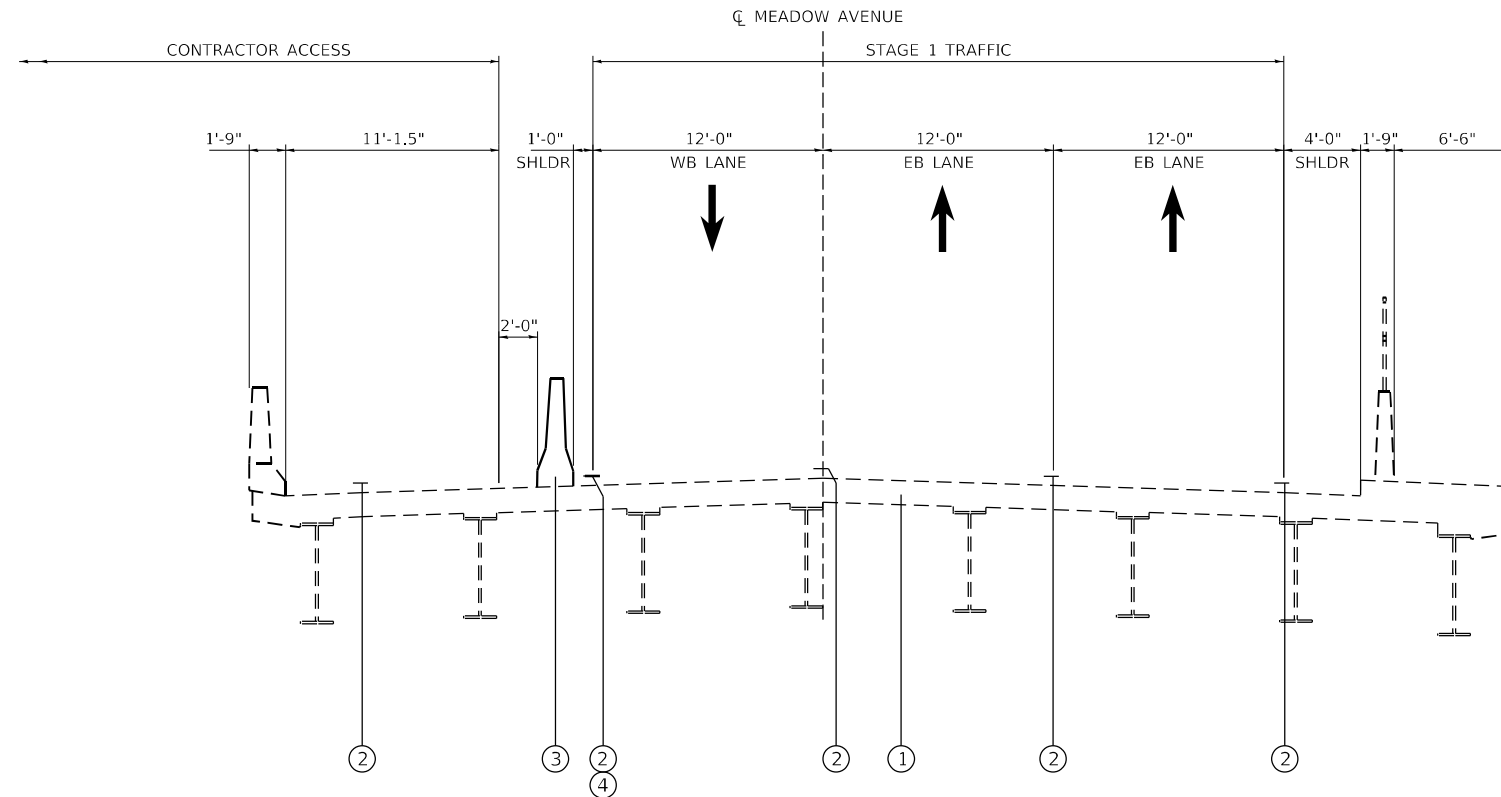
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	25
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



STAGE 1 TYPICAL SECTION

**LOCATION 8 – MEADOW AVE OVER FARM CREEK, CRRR,
TPWRR, NSRR
(LOOKING SOUTHEAST)**

MODEL: D:\p1\h... FILE NAME: P:\2025\11_CADD - DWG\4.7_Traffic\Traffic - Bridge_Painting (FY 2025)\11_CADD - Sheets\11468K62-struct\traffic_control_ttyps.dgn



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 – STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 8**

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

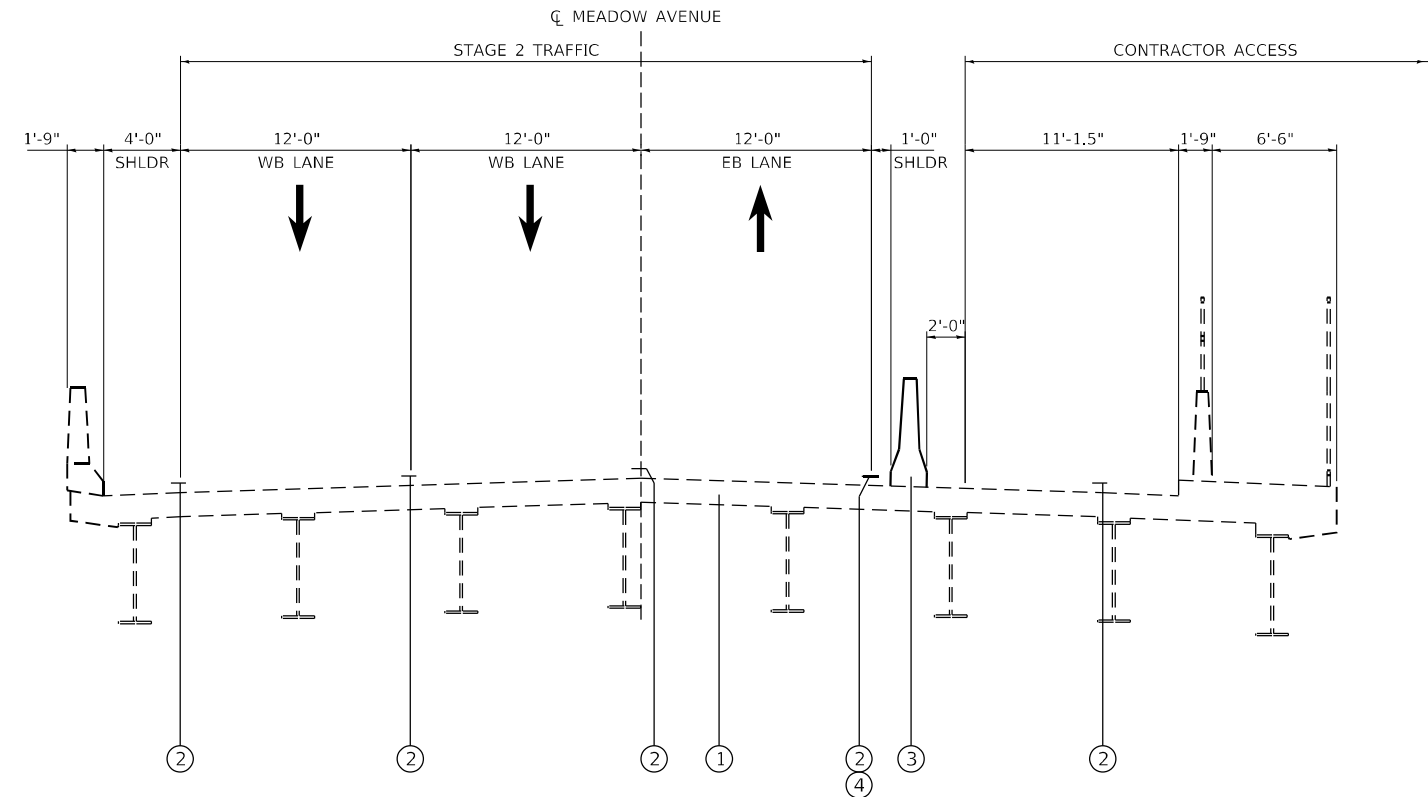
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	26
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



STAGE 2 TYPICAL SECTION

**LOCATION 8 – MEADOW AVE OVER FARM CREEK, CRRR,
TPWRR, NSRR
(LOOKING SOUTHEAST)**

MODEL: D:\p1\11
 FILE NAME: P:\2025\20250904\277 - Bridge Painting (FY 2025)\V_CADD - DWG\4.7 Tran\CADD_Sheets\1468K62-struct\stage_control_ttyps.dgn



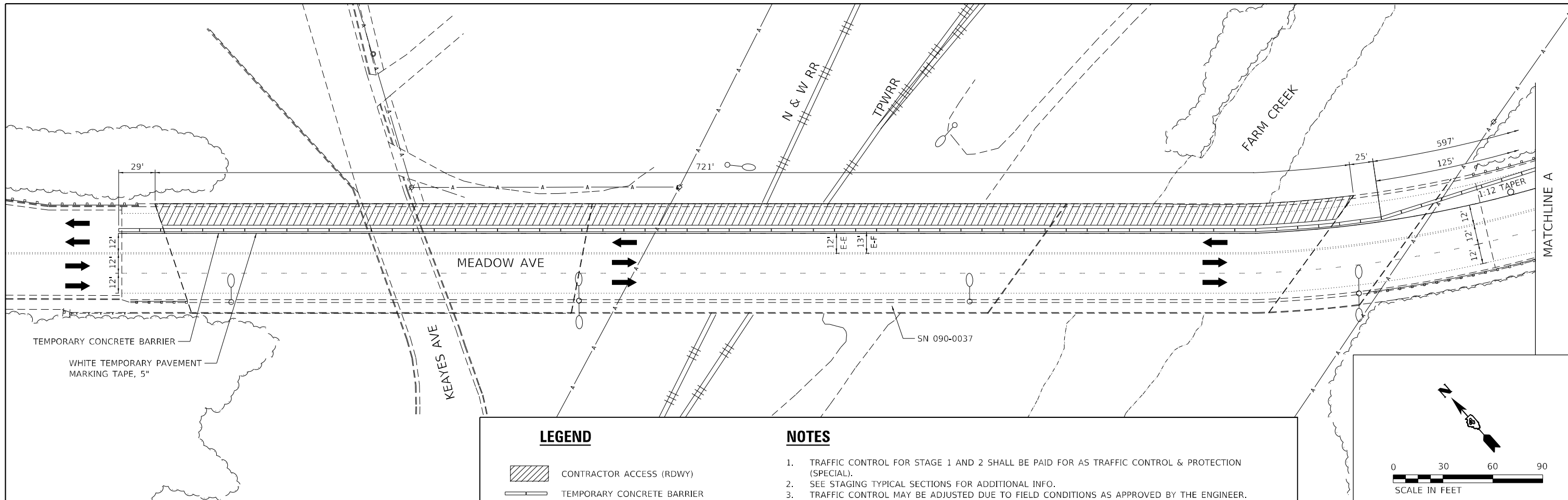
USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 – STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 8**

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	27
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

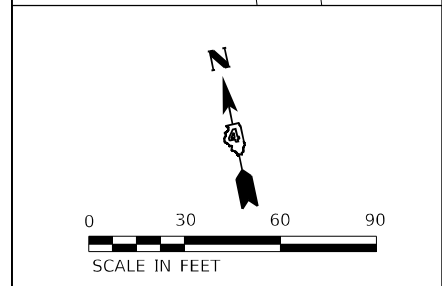
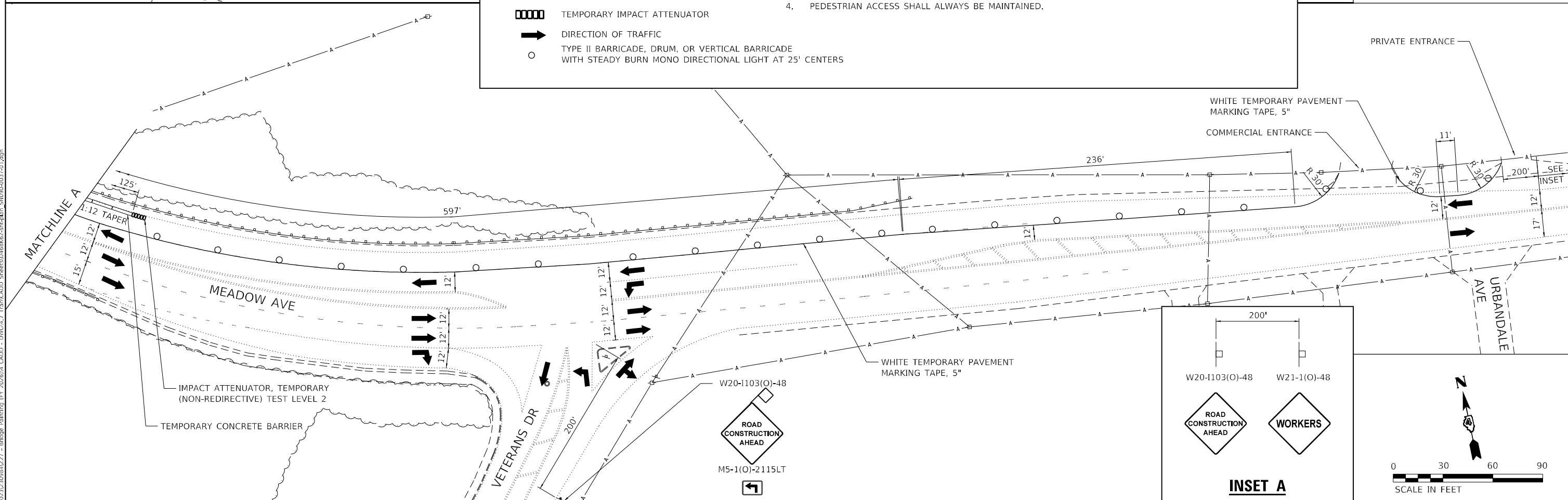
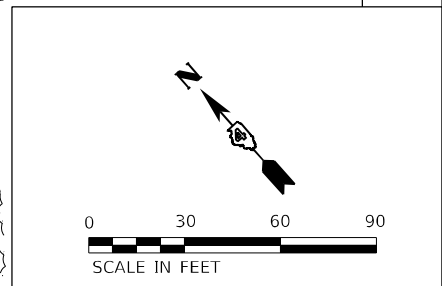


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT AT 25' CENTERS

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4. PEDESTRIAN ACCESS SHALL ALWAYS BE MAINTAINED.



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LICENSE NO:
184-001220

USER NAME = dllee	DESIGNED - BCS	REVISED -
PLOT SCALE = 60,0000 * / in.	DRAWN - BCS	REVISED -
PLOT DATE = 10/6/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

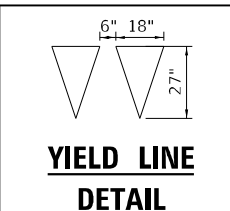
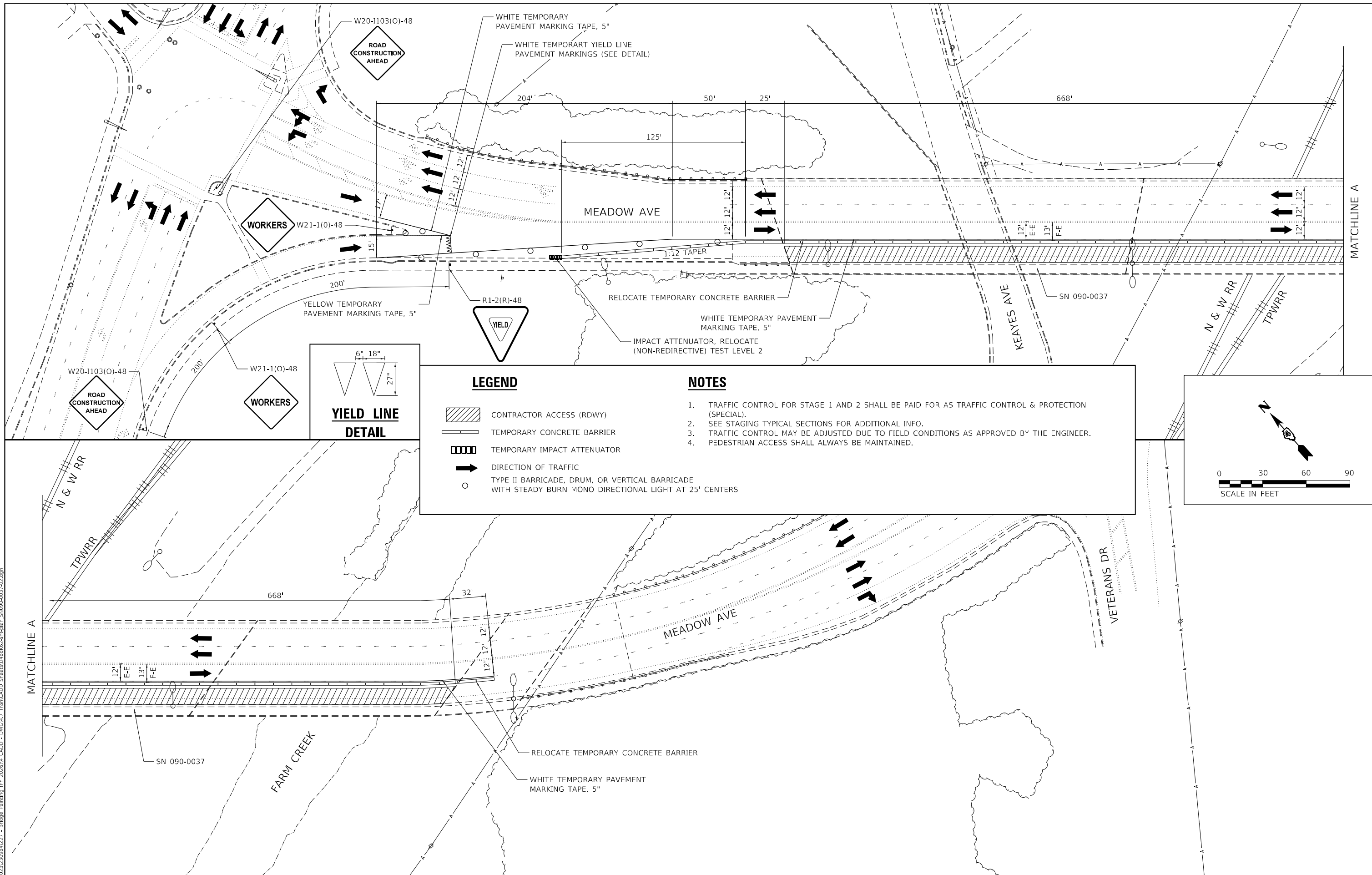
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 - STAGING PLAN
STRUCTURE LOCATION 8**

SCALE: 1"=30' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	28
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

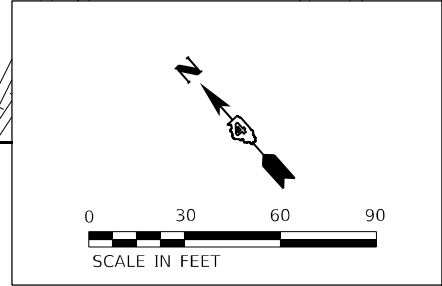
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LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT AT 25' CENTERS

- NOTES**
1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL).
 2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
 3. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
 4. PEDESTRIAN ACCESS SHALL ALWAYS BE MAINTAINED.



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PLOT SCALE = 60,0000' / in.	DRAWN - BCS	REVISED -
PLOT DATE = 10/6/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 - STAGING PLAN			
STRUCTURE LOCATION 8			
SCALE: 1"=30'	SHEET 2	OF 2 SHEETS	STA. TO STA.

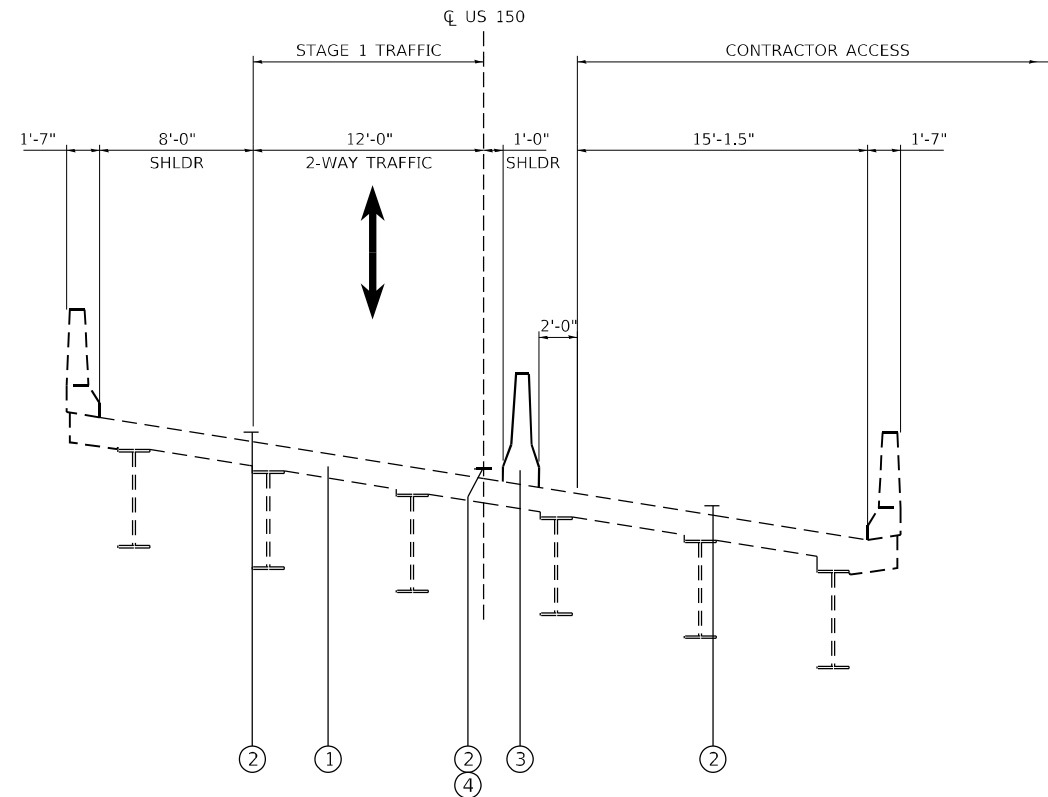
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	29
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

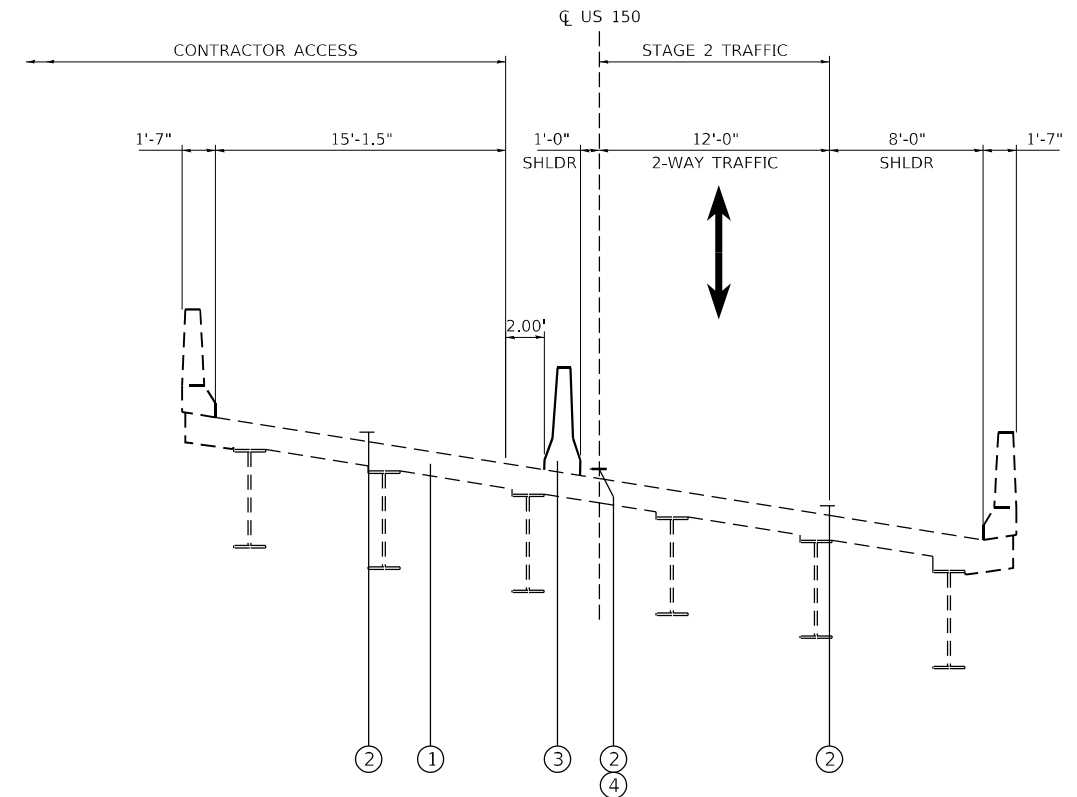
1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321 (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PCC BRIDGE DECK
- ② EXISTING PAVEMENT MARKING
- ③ TEMPORARY CONCRETE BARRIER
- ④ TEMPORARY PAVEMENT MARKING TAPE, 5"



STAGE 1 TYPICAL SECTION
LOCATION 9 – US 150 OVER LITTLE FARM CREEK
(LOOKING SOUTHEAST)



STAGE 2 TYPICAL SECTION
LOCATION 9 – US 150 OVER LITTLE FARM CREEK
(LOOKING SOUTHEAST)

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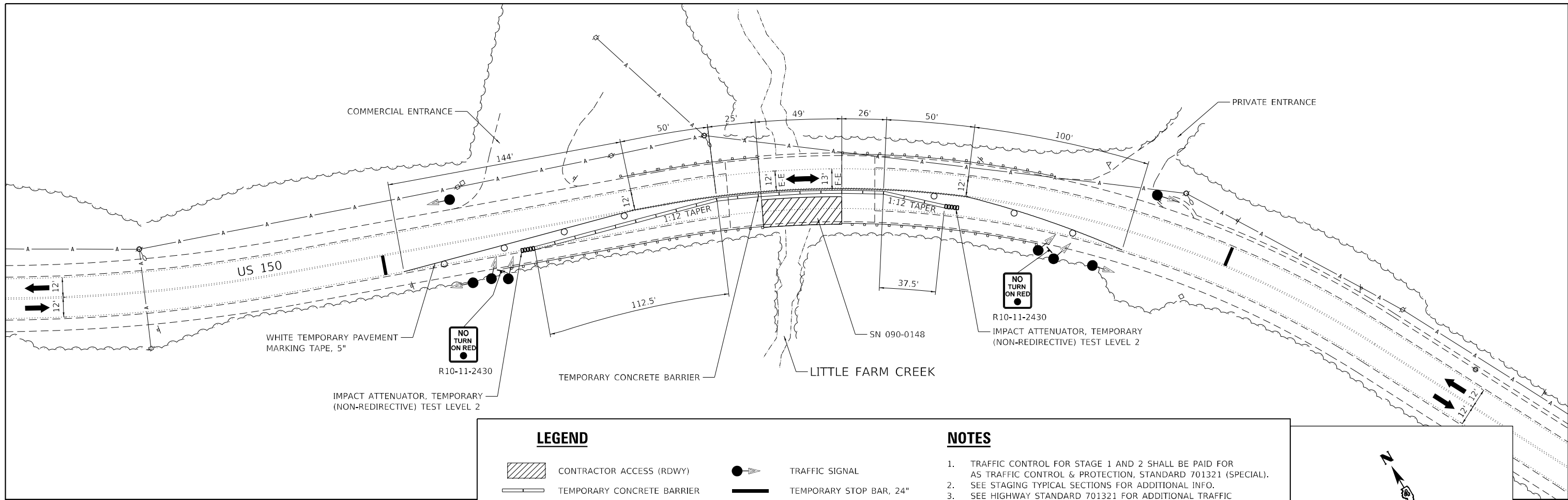
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 LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 & 2 – STAGING TYPICAL SECTIONS			
STRUCTURE LOCATION 9			
SCALE: 1"=5'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	30
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

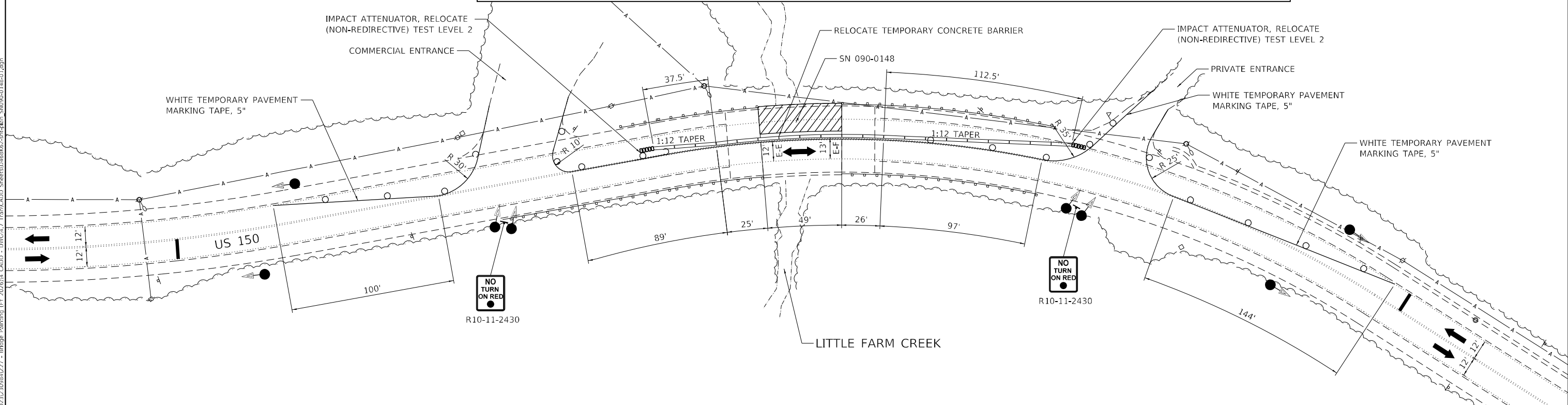
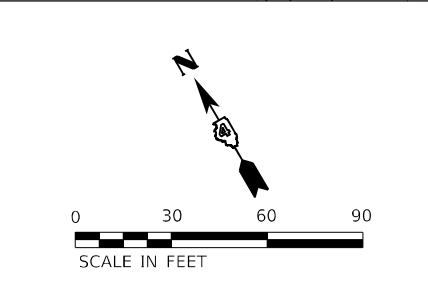


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT
- TRAFFIC SIGNAL
- TEMPORARY STOP BAR, 24"

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701321 (SPECIAL).
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



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USER NAME = dllee	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISOR -	
PLOT SCALE = 60,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 10/6/2025	DATE - SEPT 2025	REVISED -

DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISOR -
CHECKED - TBP	REVISED -
DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 & 2 - STAGING PLAN
STRUCTURE LOCATION 9

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.

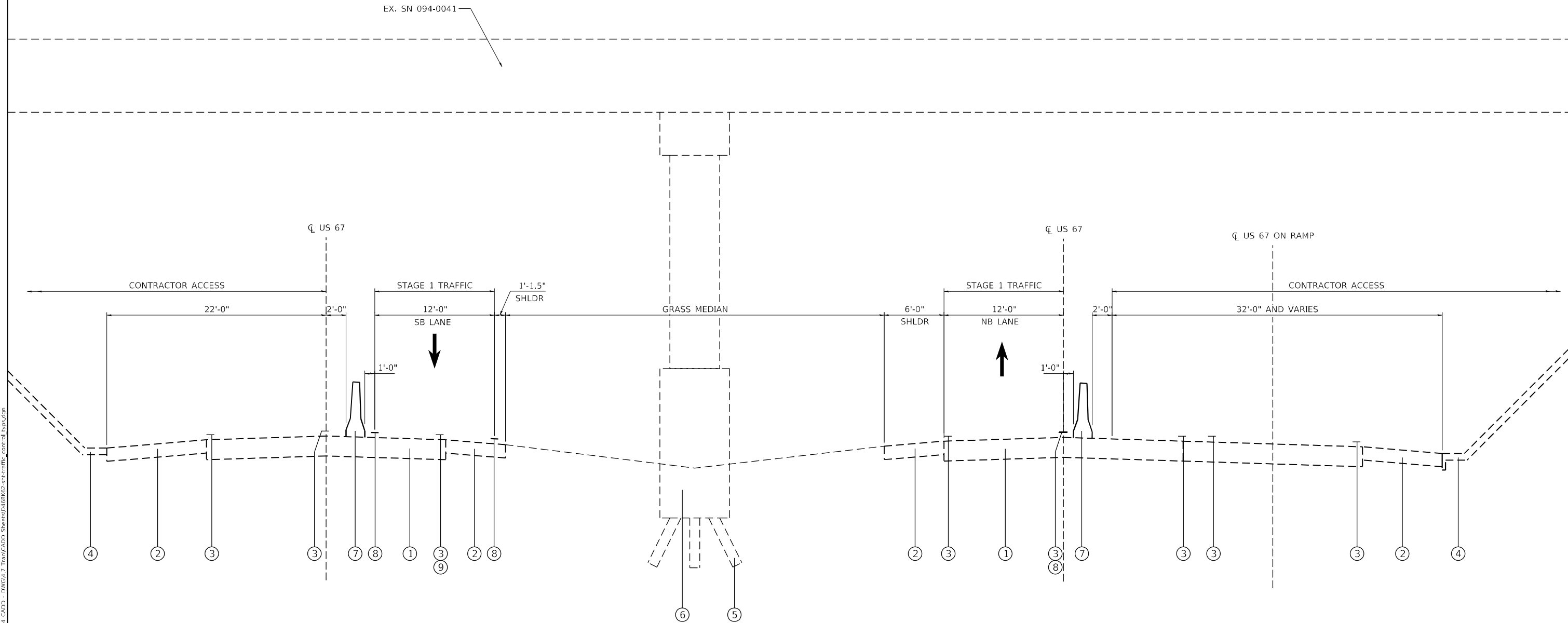
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VAR	D4 BRIDGE PAINTING 2026	VAR	136	31
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING SHOULDER
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING CONCRETE SLOPE WALL, 4"
- ⑤ EXISTING CONCRETE PILES
- ⑥ EXISTING CONCRETE PIER
- ⑦ TEMPORARY CONCRETE BARRIER
- ⑧ TEMPORARY PAVEMENT MARKING TAPE, 5"
- ⑨ TEMPORARY PAVEMENT MARKING BLACKOUT TAPE



**SOUTHBOUND
(LOOKING NORTH)**

**STAGE 1 TYPICAL SECTION
LOCATION 10 - US 34 /US 67**

**NORTHBOUND
(LOOKING NORTH)**

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184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

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DEPARTMENT OF TRANSPORTATION**

**STAGE 1 - STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 10**

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

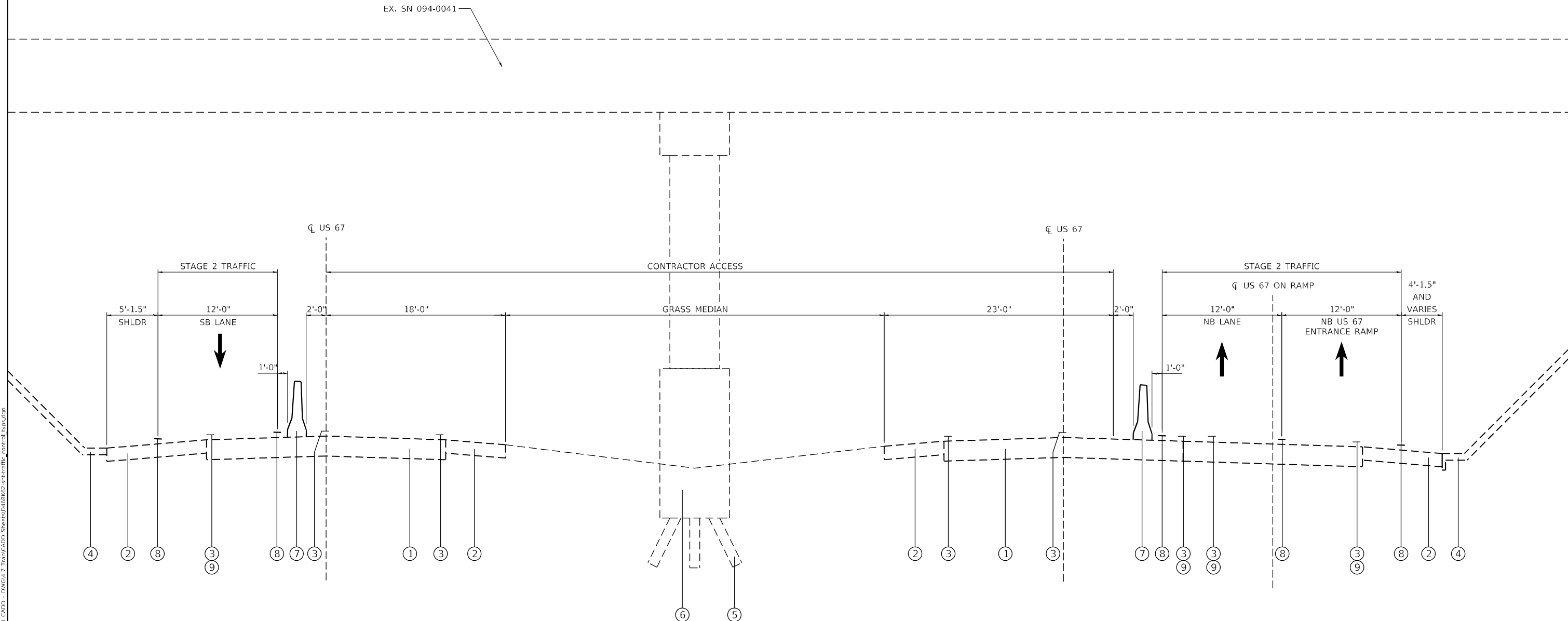
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	32
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL).
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING SHOULDER
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING CONCRETE SLOPE WALL, 4"
- ⑤ EXISTING CONCRETE PILES
- ⑥ EXISTING CONCRETE PIER
- ⑦ TEMPORARY CONCRETE BARRIER
- ⑧ TEMPORARY PAVEMENT MARKING TAPE, 5"
- ⑨ TEMPORARY PAVEMET MARKING BLACKOUT TAPE



**SOUTHBOUND
(LOOKING NORTH)**

**STAGE 2 TYPICAL SECTION
LOCATION 10 – US 34 /US 67**

**NORTHBOUND
(LOOKING NORTH)**

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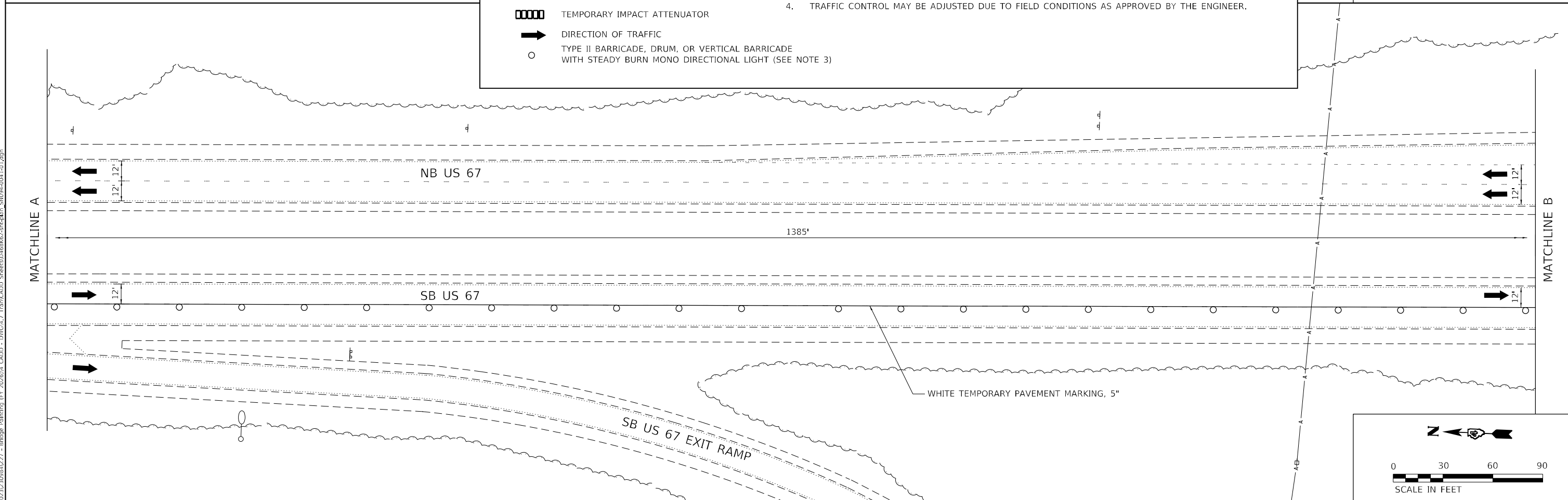
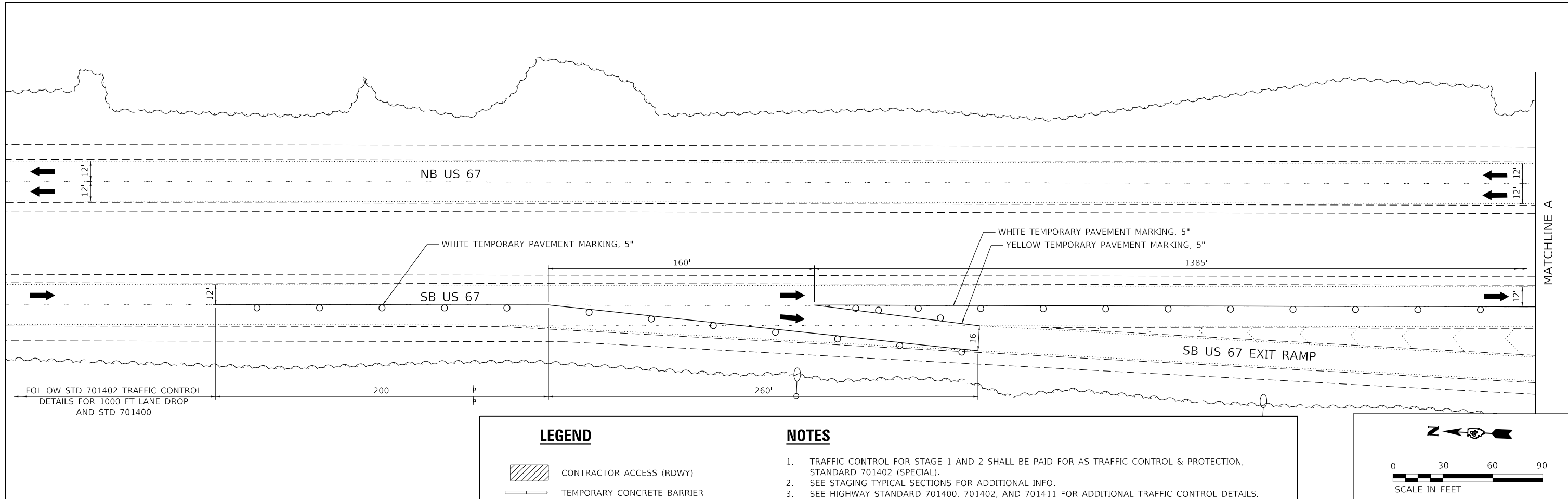
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PLOT DATE = 9/11/2025		

DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -
CHECKED - TBP	REVISED -
DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 – STAGING TYPICAL SECTIONS STRUCTURE LOCATION 10			
SCALE: 1"=5'	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	33
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				



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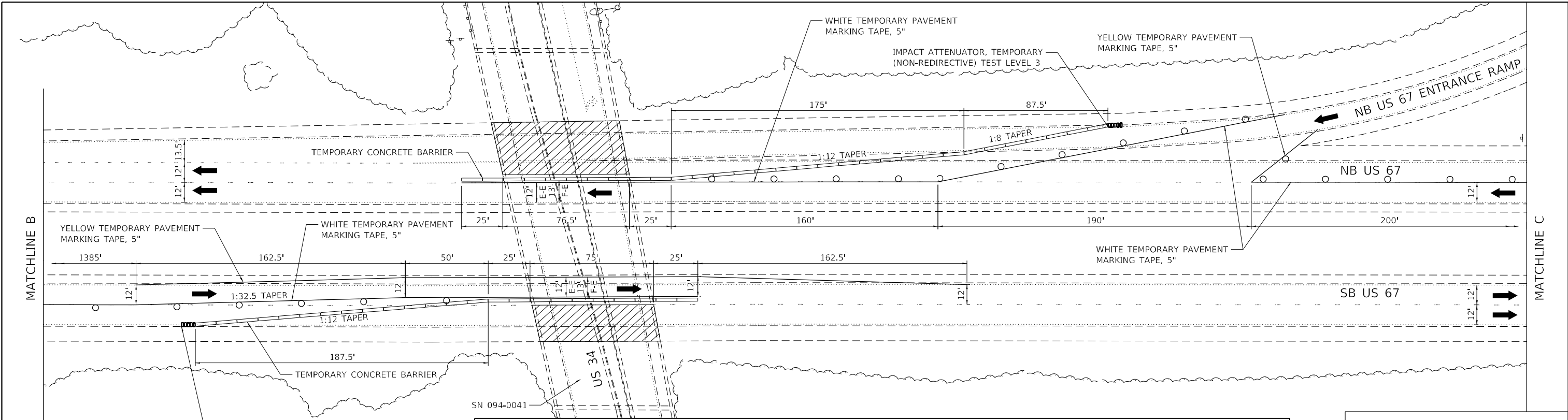
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PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

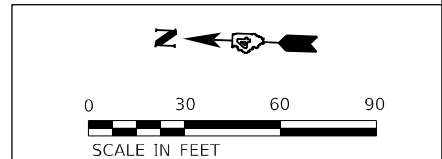
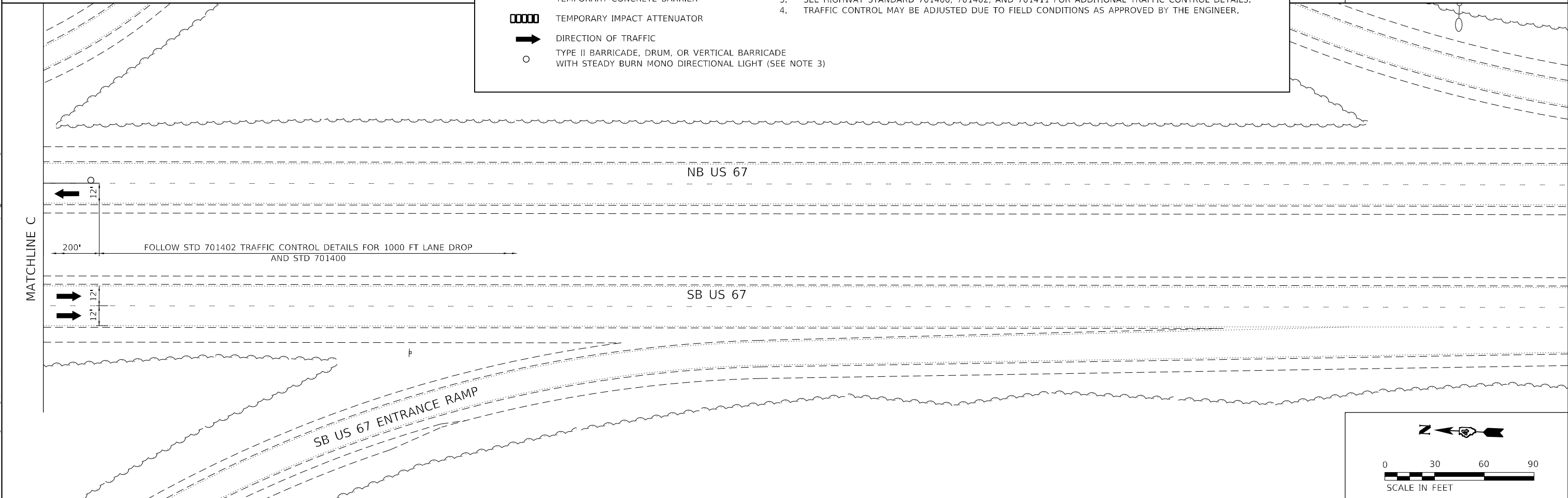
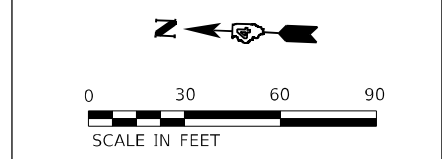
**STAGE 1 - STAGING PLAN
 STRUCTURE LOCATION 10**

SCALE: 1"=30' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	34
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				



LEGEND		NOTES	
	CONTRACTOR ACCESS (RDWY)	1.	TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL).
	TEMPORARY CONCRETE BARRIER	2.	SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
	TEMPORARY IMPACT ATTENUATOR	3.	SEE HIGHWAY STANDARD 701400, 701402, AND 701411 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
	DIRECTION OF TRAFFIC	4.	TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT (SEE NOTE 3)		



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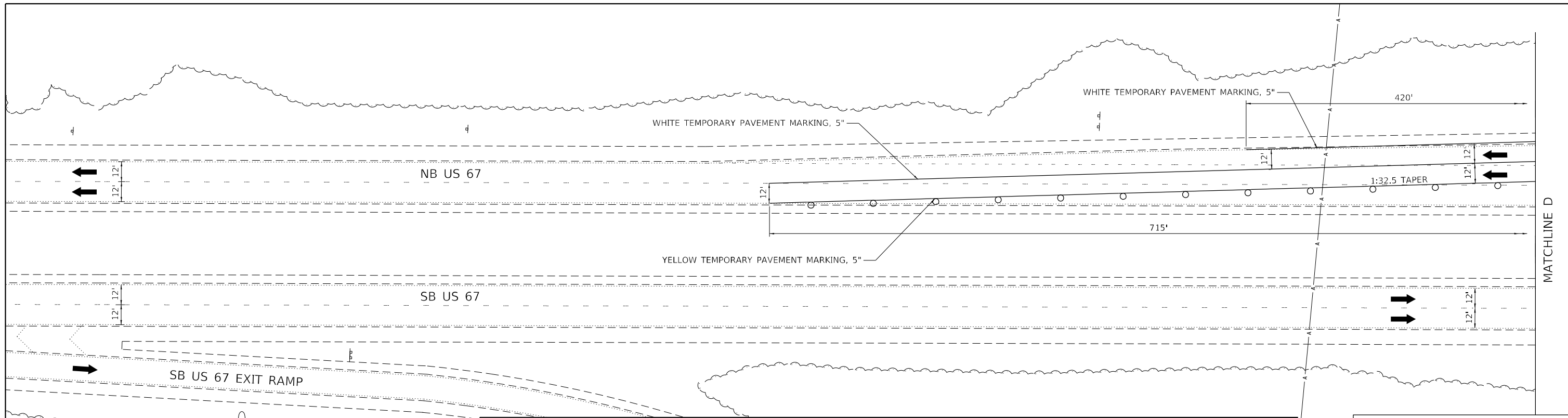
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PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 - STAGING PLAN
STRUCTURE LOCATION 10

SCALE: 1"=30' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	35
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

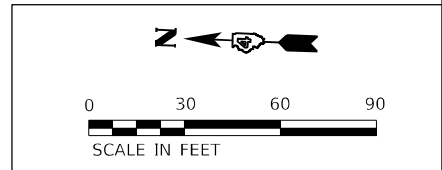
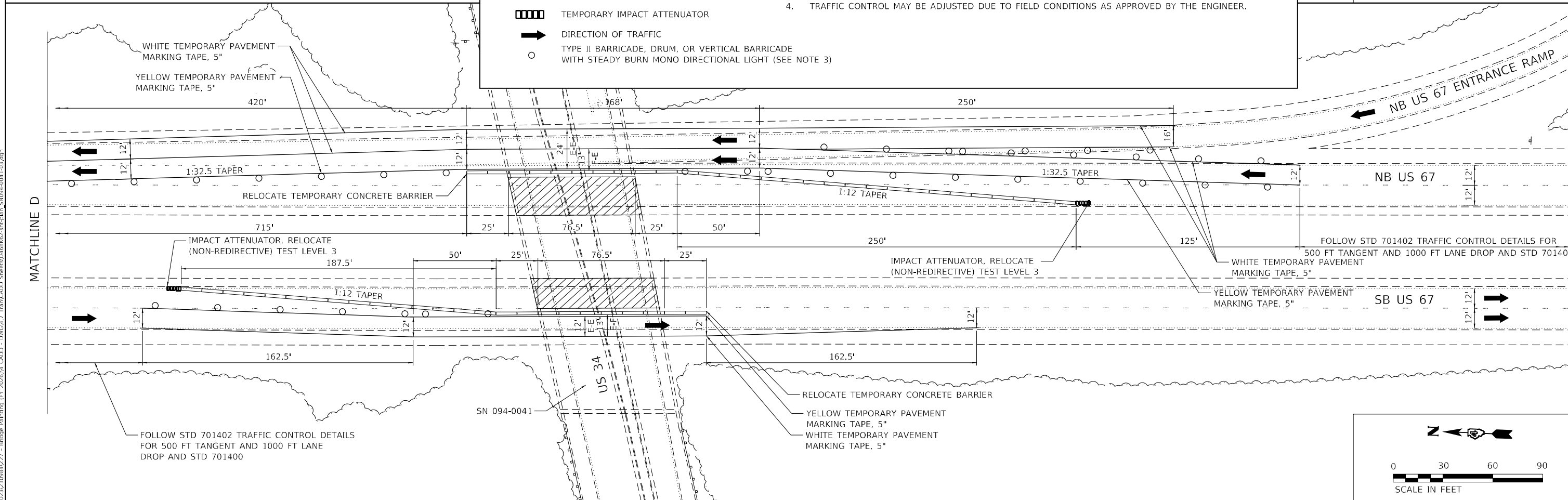
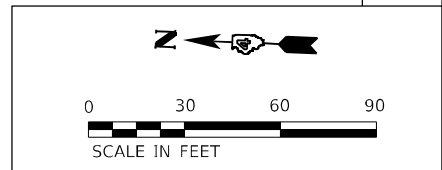


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT (SEE NOTE 3)

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL).
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701400, 701402, AND 701411 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



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USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 60,0000 * / in.	DRAWN - BCS	REVISED -
PLOT DATE = 9/11/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 - STAGING PLAN
STRUCTURE LOCATION 10

SCALE: 1"=30' SHEET 3 OF 3 SHEETS STA. TO STA.

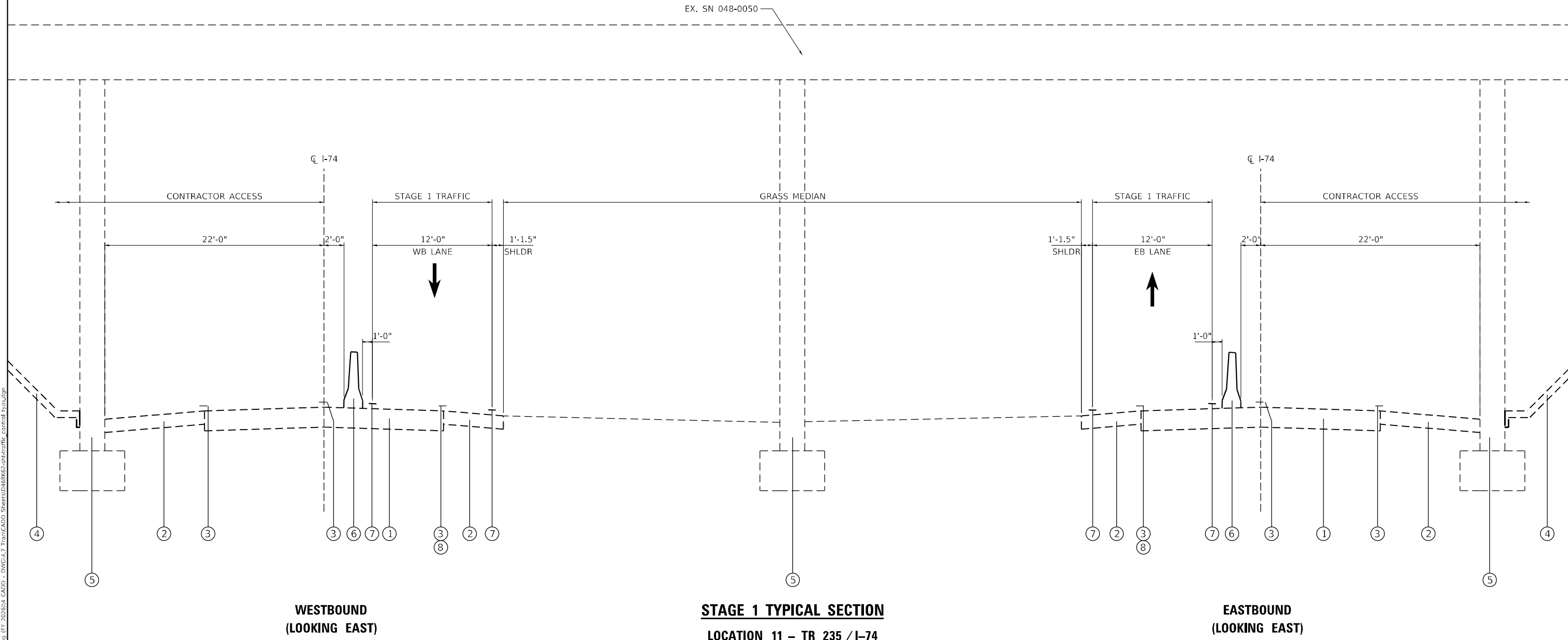
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	36
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING SHOULDER
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING CONCRETE SLOPE WALL, 4"
- ⑤ EXISTING CONCRETE PIER
- ⑥ TEMPORARY CONCRETE BARRIER
- ⑦ TEMPORARY PAVEMENT MARKING TAPE, 5"
- ⑧ TEMPORARY PAVEMENT MARKING BLACKOUT TAPE



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USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	CHECKED - TBP	REVISED -
PLOT SCALE = 10,0000 * / in.	DATE - SEPT 2025	REVISED -
PLOT DATE = 9/11/2025		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 - STAGING TYPICAL SECTIONS			
STRUCTURE LOCATION 11			
SCALE: 1"=5'	SHEET 1	OF 2 SHEETS	STA. TO STA.

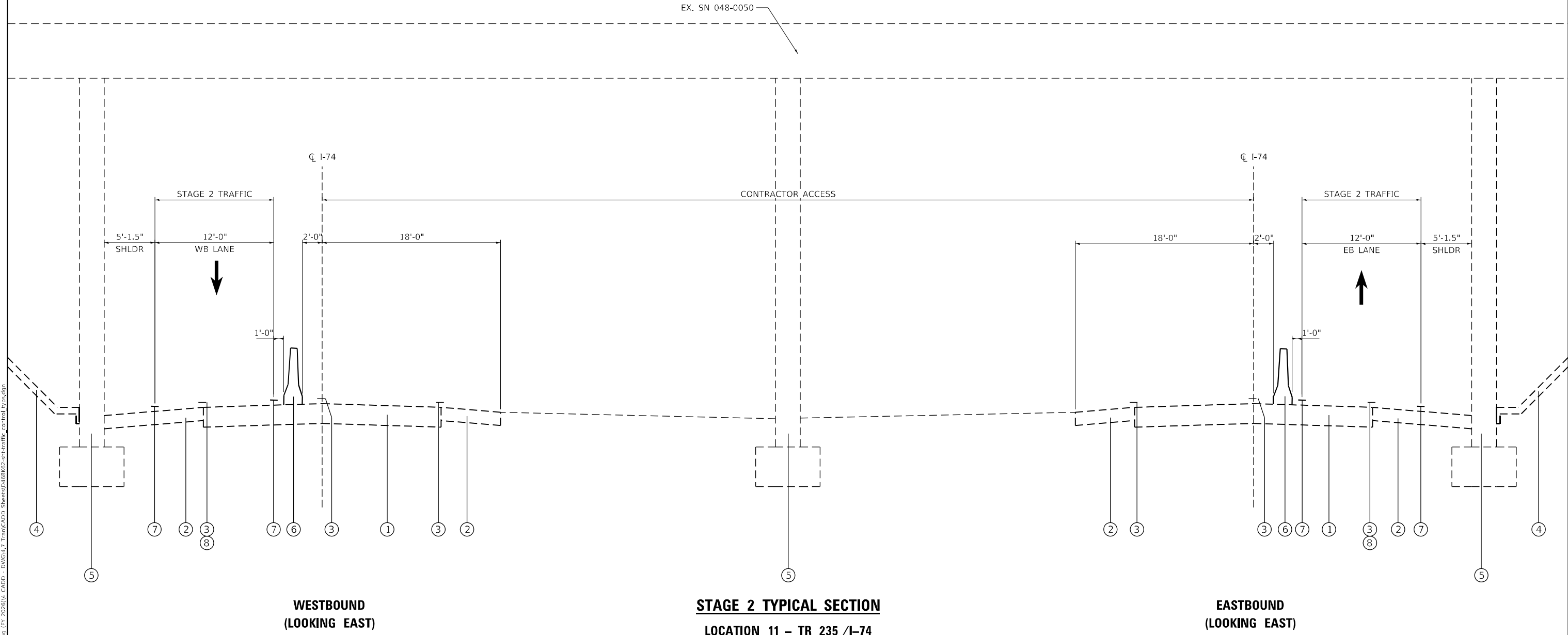
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	37
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

NOTES

1. TRAFFIC CONTROL STAGE 1 AND STAGE 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING SHOULDER
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING CONCRETE SLOPE WALL, 4"
- ⑤ EXISTING CONCRETE PIER
- ⑥ TEMPORARY CONCRETE BARRIER
- ⑦ TEMPORARY PAVEMENT MARKING TAPE, 5"
- ⑧ TEMPORARY PAVEMENT MARKING BLACKOUT TAPE



MODEL: D:\p\h\h
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 BRIDGE PAINTING (FY 2025) V. CADD - DWG\4.7_Tran\CADD_Sheets\11-68K62-ctr-traffic_control.txdp

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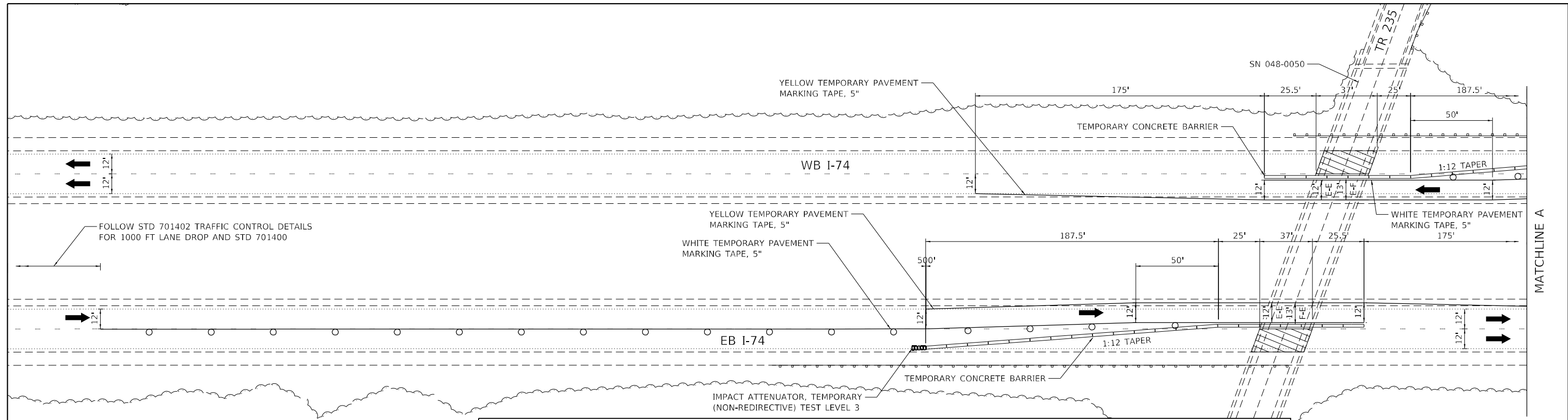
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PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
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STAGE 2 - STAGING TYPICAL SECTIONS
STRUCTURE LOCATION 11

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	38
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

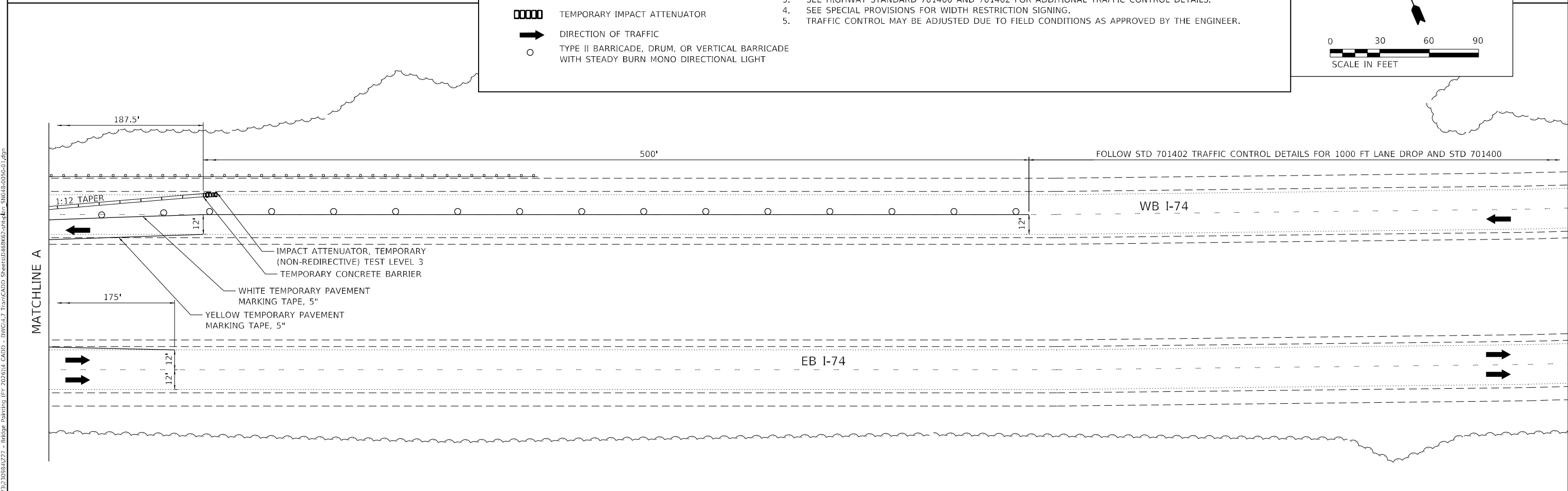


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701400 AND 701402 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
5. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



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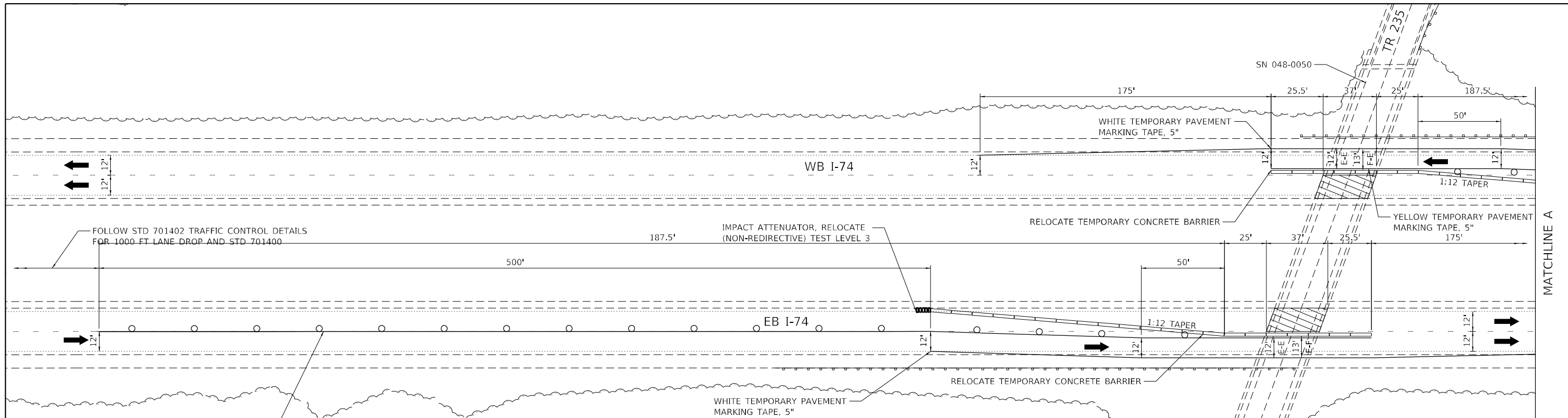
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PLOT DATE = 9/11/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 - STAGING PLAN
STRUCTURE LOCATION 11

SCALE: 1"=30' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	39
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

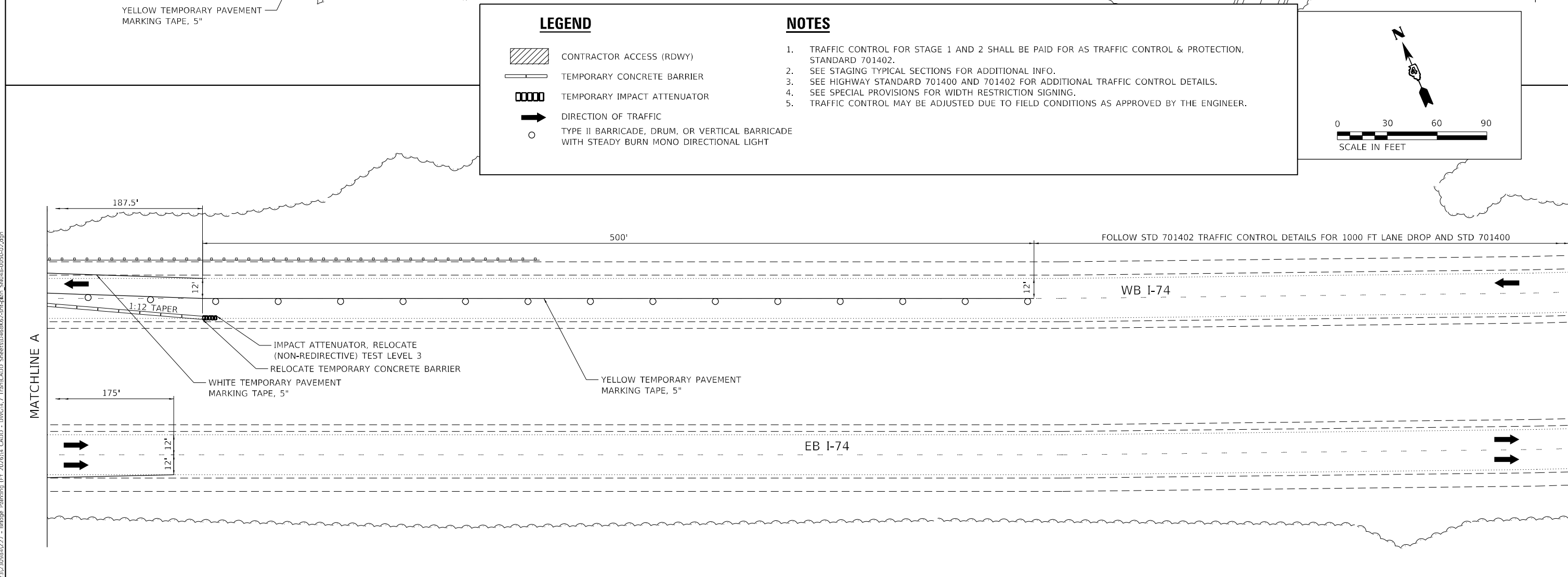


LEGEND

- CONTRACTOR ACCESS (RDWY)
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONO DIRECTIONAL LIGHT

NOTES

1. TRAFFIC CONTROL FOR STAGE 1 AND 2 SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION, STANDARD 701402.
2. SEE STAGING TYPICAL SECTIONS FOR ADDITIONAL INFO.
3. SEE HIGHWAY STANDARD 701400 AND 701402 FOR ADDITIONAL TRAFFIC CONTROL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WIDTH RESTRICTION SIGNING.
5. TRAFFIC CONTROL MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



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LICENSE NO:
184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
PLOT SCALE = 60,0000 * / in.	CHECKED - TBP	REVISED -
PLOT DATE = 9/11/2025	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

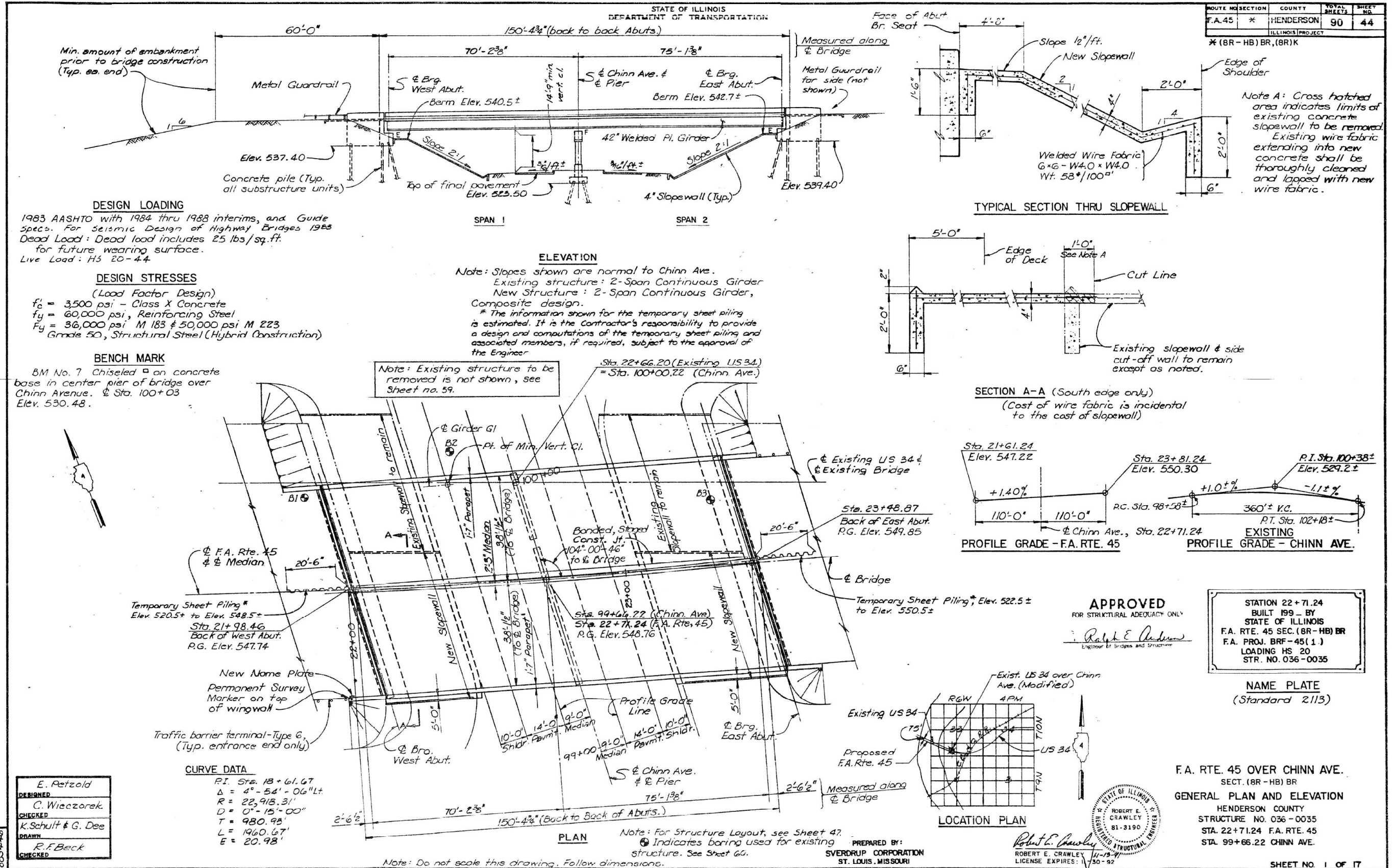
**STAGE 2 – STAGING PLAN
STRUCTURE LOCATION 11**

SCALE: 1"=30' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	40
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

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FOR INFORMATION ONLY
LOCATION 1 (US 34 OVER MELLINEER AVE (OR 35))
SN 036-0035



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USER NAME	DESIGNED	DRAWN	CHECKED	DATE
= bstambaugh	BCS	BCS	TBP	SEPT 2025

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION 1 - STRUCTURE INFORMATION
SN 036-0035

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	41
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 1 (US 34 OVER MELLINEER AVE (OR 35))
SN 036-0035

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	*	HENDERSON	90	45
ILLINOIS PROJECT				
*(8R-HB) BR, (8R)K				

GENERAL NOTES

DESIGN SPECIFICATIONS:
 In accordance with AASHTO 1983 Edition and 1984, 1985, 1986, 1987, and 1988 Interim Specifications.

CONSTRUCTION SPECIFICATIONS:
 The 1988 edition of the State of Illinois Department of Transportation's "Standard Specifications for Road and Bridge Construction," Addendums and the Special Provisions shall govern.

CALCULATED WEIGHT OF STRUCTURAL STEEL:
 158,730 Lbs. M183
 69,070 Lbs. M223 (Grade 50)

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, shims of the dimensions of top plate shall be provided and placed as detailed. In the event of grinding, any grinding will permit free drainage of the bearing seat.

Anchor bolts shall be set before bolting diaphragms over supports.

The zinc-silicate and vinyl paint system shall be used for shop and field painting of structural steel except where otherwise noted.

Reinforcement bars shall conform to the requirements of AASHTO M31, M42, or M53 Grade 60.

The Contractor shall drive one concrete test pile in a permanent location at the West Abutment, and the pier as directed by the Engineer before ordering the remaining of piles.

Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09 (c) of the Standard Specifications.

Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the engineer.

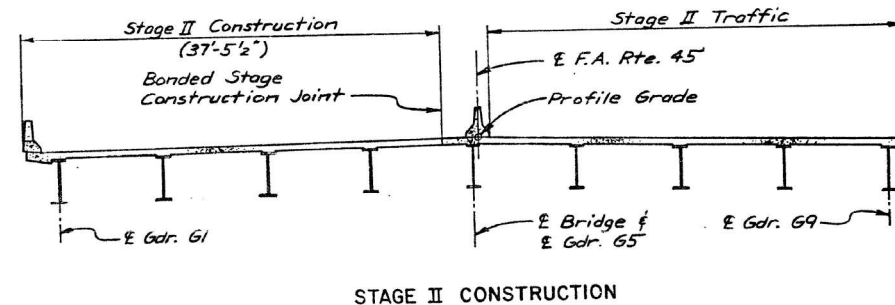
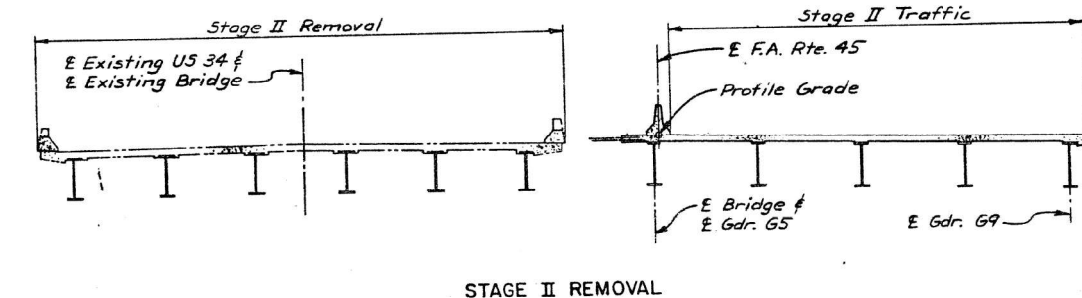
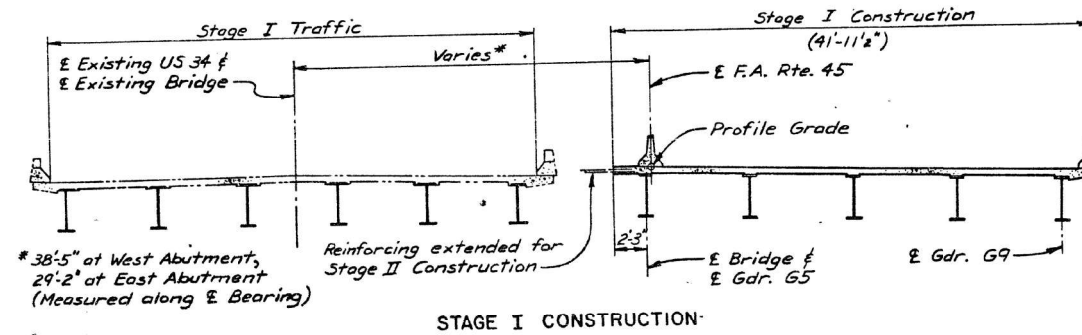
Plan dimensions and details relative to the existing structure have been taken from existing plans and survey data, and are subject to nominal construction variations. It is the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All transverse and longitudinal dimensions are measured horizontally.

For structural steel notes, see Sheet 49.

Plans of the existing structure F.A. Rte. 9 over Chinn Avenue may be obtained from Illinois D.O.T. See Sheet 59.

The color of the finish coat on this Bridge shall be Blue to match Munsell Color Standard 10B 3/6.



STAGE CONSTRUCTION
 (Looking Ahead Station)

TOTAL BILL OF MATERIAL				
ITEM	UNIT	SUPER STRUCTURE	SUB STRUCTURE	TOTAL
Structure Excavation	Cu. Yd.		275	275
Class X Concrete Superstructure	Cu. Yd.	338.3		338.3
Class X Concrete	Cu. Yd.		277.1	277.1
Reinforcement Bars	Lb.		18,130	18,130
Reinforcement Bars, Epoxy Coated	Lb.	95,802	11,067	106,869
Furnishing Concrete Piles	Lin. Ft.		3,298	3,298
Driving Concrete Piles	Lin. Ft.		3,298	3,298
Preformed Joint Seal (2 1/2")	Lin. Ft.	163		163
Removal of Existing Structure	Lump Sum			1
Concrete Removal	Cu. Yd.		28.5	28.5
Furnishing and Erecting Structural Steel	Lump Sum			1
Stud Shear Connectors	Each	3,186		3,186
Protective Coat	Sq. Yd.	1,507		1,507
Name Plate	Each	1		1
Elastomeric Bearing Assembly (Type I)	Each	18		18
Test Piles Concrete	Each		2	2
Bridge Seat Sealer	Lump Sum			1
Temporary Sheet Piling	Sq. Ft.		1148	1148
Bridge Deck Grooving	Sq. Yd.	1,209		1,209

Notes: * Concrete Removal includes removal required for modifications to existing pier; see Details on Sheet 56.
 ** Quantity includes deck surface, top of abutment backwall, roadway face and top surface of parapets, median parapets and wingwalls.
 *** Bridge seat sealer used for top surface of abutment bridge seats = 51 Sq. Yds.
 For slope wall 4 inch, and slope wall removal quantities, see Plan Sheet 9.

INDEX OF DRAWINGS

- GENERAL PLAN AND ELEVATION
- GENERAL NOTES, ESTIMATED QUANTITIES, AND INDEX OF DRAWINGS
- TOP OF SLAB ELEVATIONS
- SLAB
- PARAPETS AND MEDIAN PARAPET
- FRAMING PLAN, GIRDER ELEVATIONS, AND STEEL DETAILS
- BEARINGS AND STRESS TABLES
- ANCHOR BOLT DETAILS FOR BEARINGS
- WEST ABUTMENT
- EAST ABUTMENT
- WEST AND EAST ABUTMENT DETAILS
- E.B.L. PIER
- MODIFICATIONS TO EXISTING PIER W.B.L.
- BAR SPLICER (COUPLER) DETAILS AT STAGE CONSTRUCTION
- CONCRETE PILES - FIVE ALTERNATES
- STAGE CONSTRUCTION PLAN, REMOVAL NOTES AND SLIPFORMED PARAPET DETAILS
- BORING LOGS

F.A. RTE. 45 OVER CHINN AVE.
 SECT. (8R-HB) BR
 GENERAL NOTES, ESTIMATED QUANTITIES
 AND INDEX OF DRAWINGS
 HENDERSON COUNTY
 STRUCTURE NO. 036-0035
 STA. 22+71.24 F.A. RTE. 45
 STA. 99+66.22 CHINN AVE.

SHEET NO. 2 OF 17

E. Petzold
 REGIONAL
 C. Wiczorek
 CHECKED
 G.J. Dee
 DRAWN
 R.F. Beck
 CHECKED

10451
 BBS 434

Note: Do not scale this drawing. Follow dimensions.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 1 - STRUCTURE INFORMATION
 SN 036-0035

SCALE: N/A SHEET 2 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	42
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 68K62				



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLGT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLGT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

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FOR INFORMATION ONLY
LOCATION 1 (US 34 OVER MELLINEER AVE (OR 35))
SN 036-0035

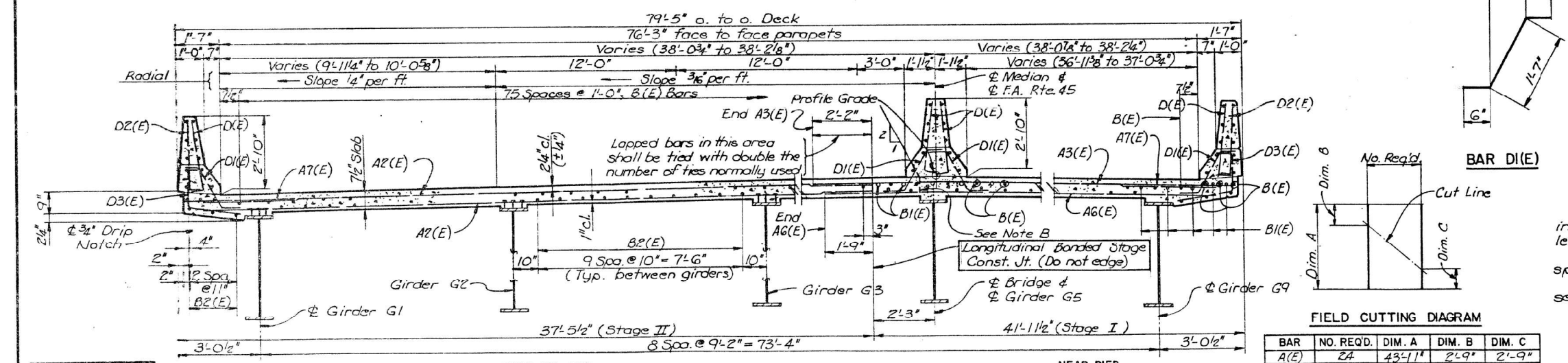
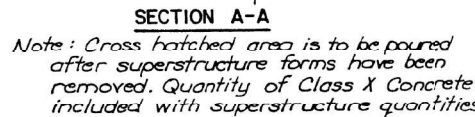
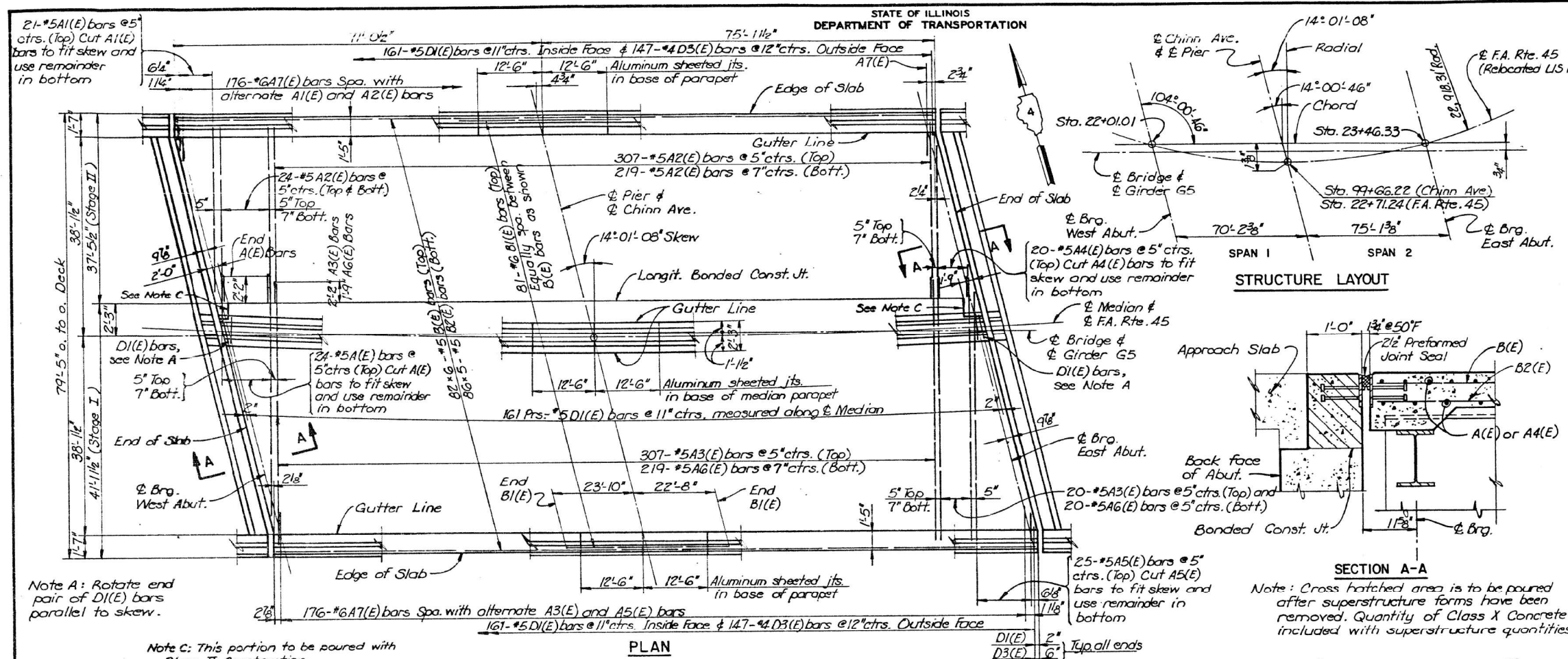
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	*	HENDERSON	90	47

ILLINOIS PROJECT
***(BR-HB) BR. (BR) K**
BILL OF MATERIAL

SLAB				
BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	24	#5	43'-11"	
A1(E)	21	#5	37'-4"	
A2(E)	574	#5	36'-5"	
A3(E)	327	#5	43'-1"	
A4(E)	20	#5	37'-1"	
A5(E)	25	#5	43'-10"	
A6(E)	239	#5	42'-8"	
A7(E)	352	#5	4'-0"	
B(E)	492	#5	26'-3"	
B1(E)	81	#6	46'-6"	
B2(E)	430	#5	31'-1"	
D1(E)	644	#5	2'-7"	
D3(E)	294	#4	4'-0"	

CLASS X CONC. SUPERSTR.	CU. YD.	289.5
REINFORCEMENT BARS (EPOXY COATED)	LB.	88,020

Note: Reinforcement bars marked (E) shall be epoxy coated.
 Class X Conc. Superstructure includes portion of abutment backwall as noted on Sheets 52 and 53 and median parapet on backwalls.



FIELD CUTTING DIAGRAM

BAR	NO. REQ'D.	DIM. A	DIM. B	DIM. C
A(E)	24	43'-11"	2'-9"	2'-9"
A1(E)	21	37'-4"	2'-0"	2'-0"
A4(E)	20	37'-1"	2'-8"	2'-8"
A5(E)	25	43'-10"	1'-11"	1'-11"

NOTES

Bars indicated thus 86*6-#5 etc. indicates 86 lines of bars with 6 lengths per line.
 Longitudinal bars shall be lapped spliced 2'-2" minimum.
 For details of preformed joint seal, see Sheet 48.

F.A. RTE. 45 OVER CHINN AVE.
 SECT. (BR-HB) BR
SLAB
 HENDERSON COUNTY
 STRUCTURE NO. 036-0035
 STA. 22+71.24 F.A. RTE. 45
 STA. 99+66.22 CHINN AVE.

DESIGNED: E. Petzold
 CHECKED: C. Wiczorek
 DRAWN: G.V. Dee
 CHECKED: R.F. Beck

10451
 888405

Note: Do not scale this drawing. Follow dimensions.

PREPARED BY:
 SVERDRUP CORPORATION
 ST. LOUIS, MISSOURI



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 - STRUCTURE INFORMATION
SN 036-0035

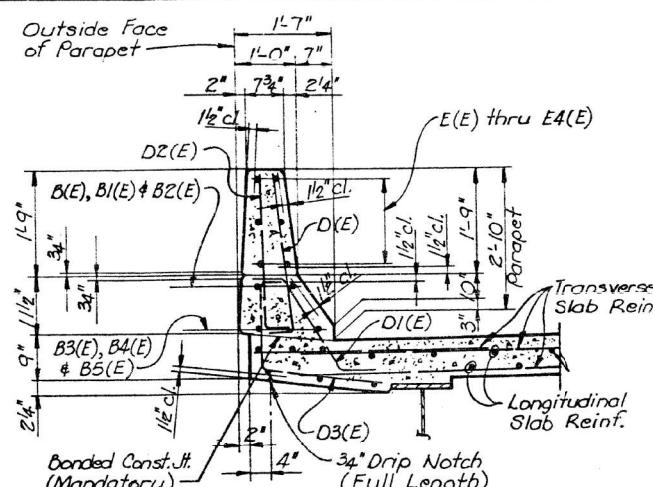
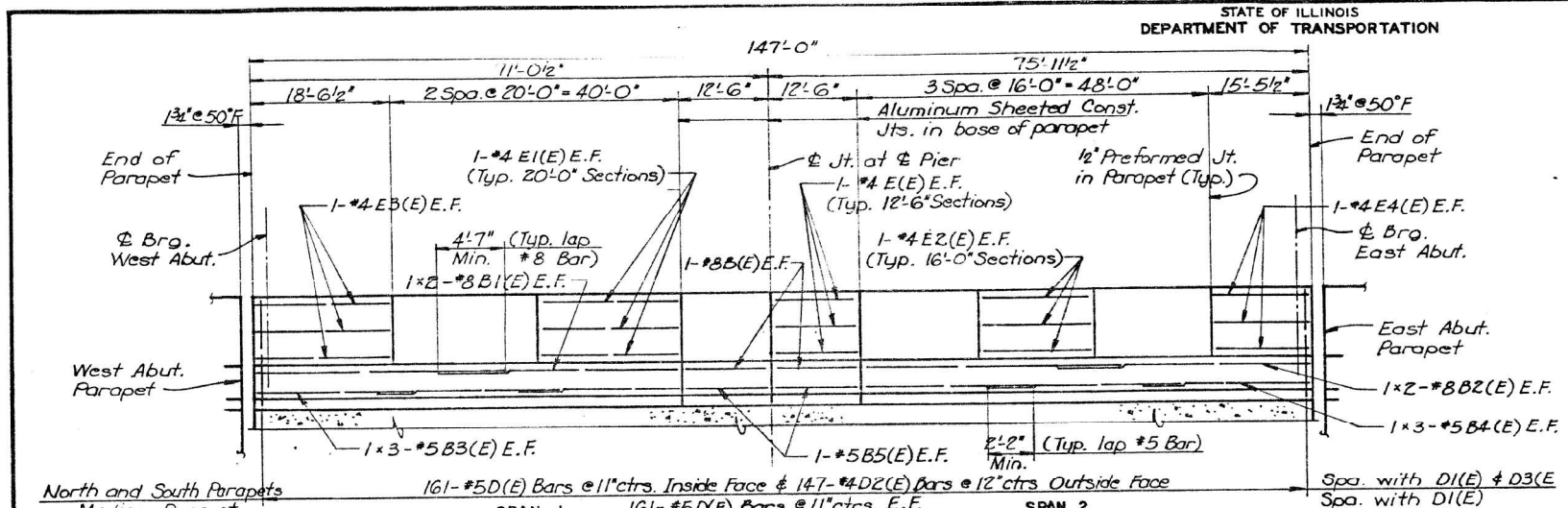
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	43
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 1 (US 34 OVER MELLINEER AVE (OR 35))
SN 036-0035

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	*	HENDERSON	90	48

ILLINOIS PROJECT
 *(BR-HB) BR, (BR) K

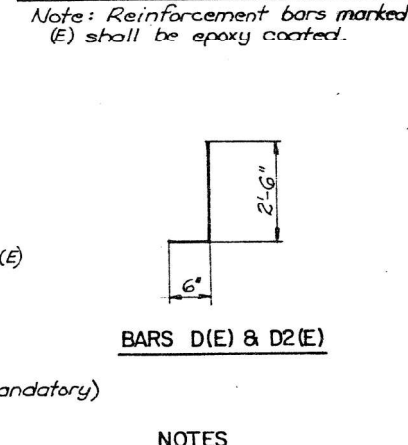
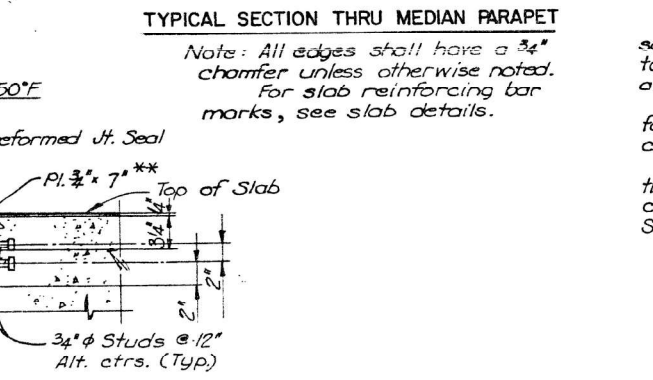
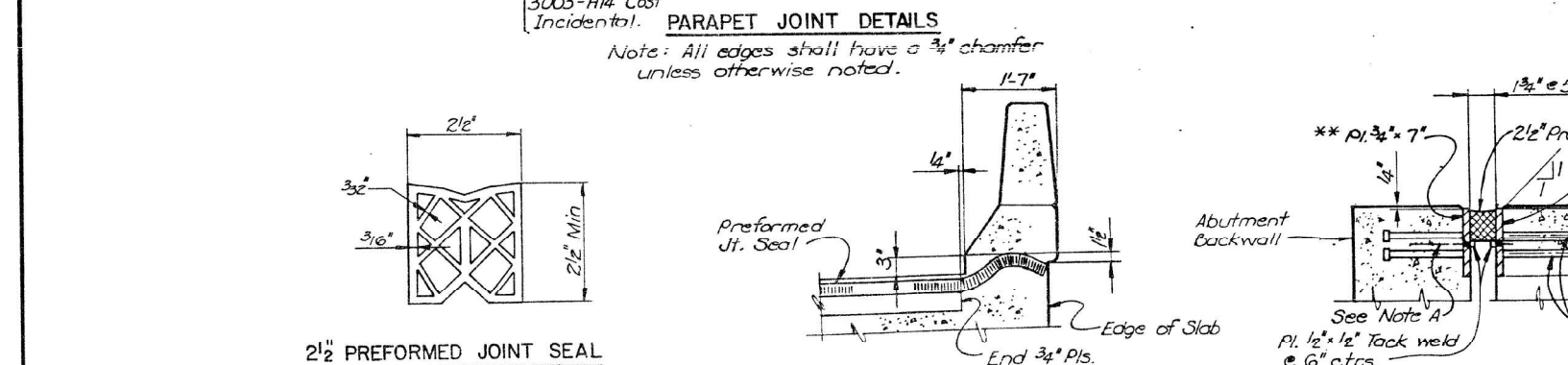
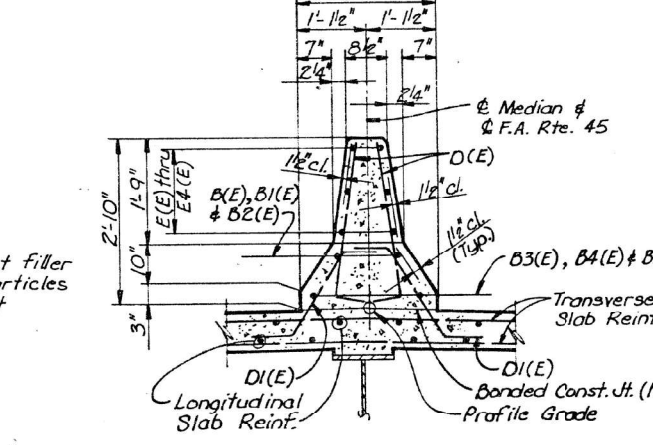
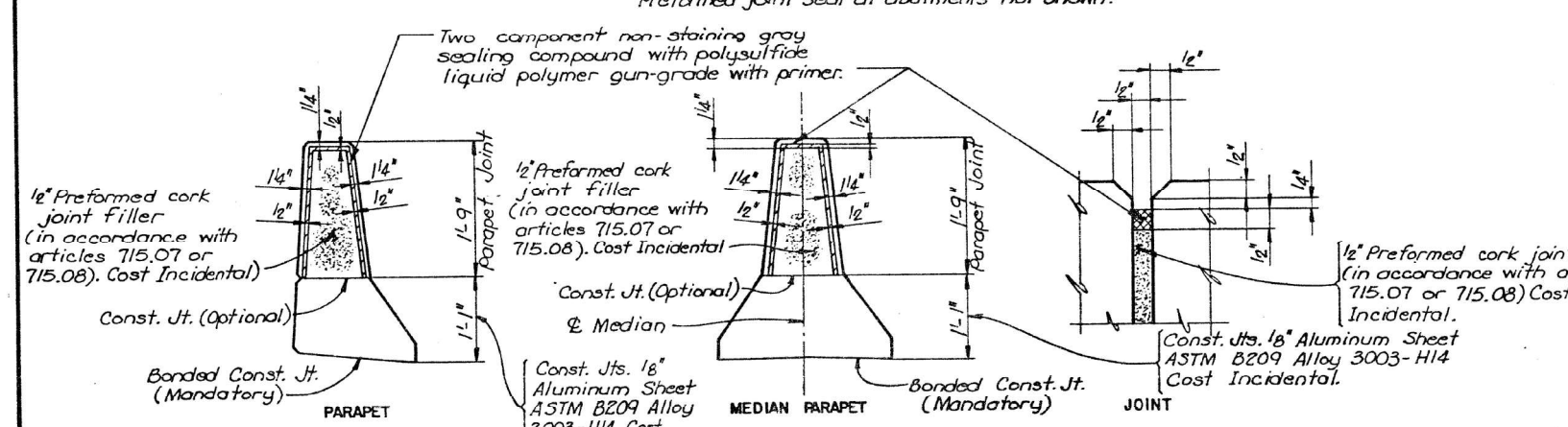


BILL OF MATERIAL

PARAPETS				
BAR	NO.	SIZE	LENGTH	SHAPE
B(E)	12	#8	12'-2"	---
B1(E)	12	#8	31'-5"	---
B2(E)	12	#8	33'-10"	---
B3(E)	18	#5	20'-10"	---
B4(E)	18	#5	22'-6"	---
B5(E)	12	#5	12'-2"	---
D(E)	644	#5	3'-0"	L
D2(E)	294	#4	3'-0"	L
E(E)	36	#4	12'-2"	---
E1(E)	36	#4	19'-8"	---
E2(E)	54	#4	15'-8"	---
E3(E)	18	#4	18'-3"	---
E4(E)	18	#4	15'-2"	---
CLASS X CONC. SUPERSTR.	CU. YD.	48.8		
REINFORCEMENT BARS (EPOXY COATED)	LB.	7,782		

INSIDE ELEVATION OF NORTH PARAPET (Shown)
OUTSIDE ELEVATION OF SOUTH PARAPET (Similar)
INSIDE ELEVATION OF MEDIAN PARAPET (Same)

Note: E.F. indicates Each Face.
 Prefomed joint seal at abutments not shown.



NOTES
 All studs to be 3/4" x 8" granular or solid flux filled headed studs conforming to Art. 710.38 of the Std. Specifications, automatically end welded.
 Expansion joint plates shall be fabricated to conform to the cross slope of the roadway.
 After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel.

F.A. RTE. 45 OVER CHINN AVE.
 SECT. (BR-HB) BR
 PARAPETS AND MEDIAN PARAPET
 HENDERSON COUNTY
 STRUCTURE NO. 036 0035
 STA. 22+71.24 F.A. RTE. 45
 STA. 99+66.22 CHINN AVE.

DESIGNED	E. Petzold
CHECKED	C. Wiczorek
DRAWN	G.J. Dee
CHECKED	R.F. Beck

10451
 885404

Note: Do not scale this drawing. Follow dimensions.



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USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000" = 1 ft.	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/8/2025	CHECKED	- TBP	REVISED	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

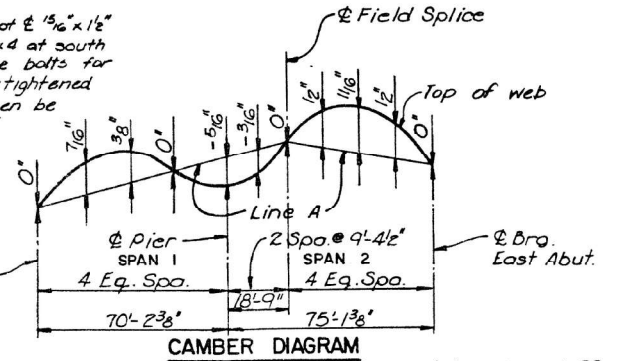
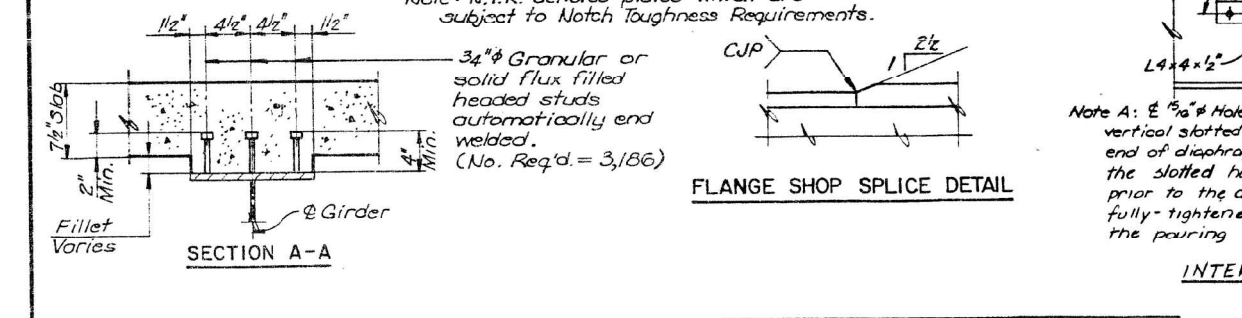
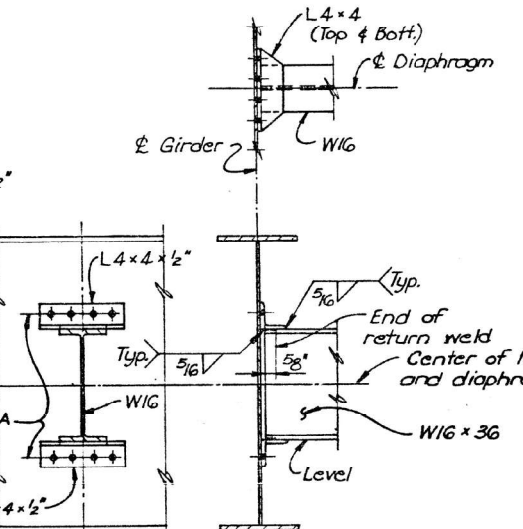
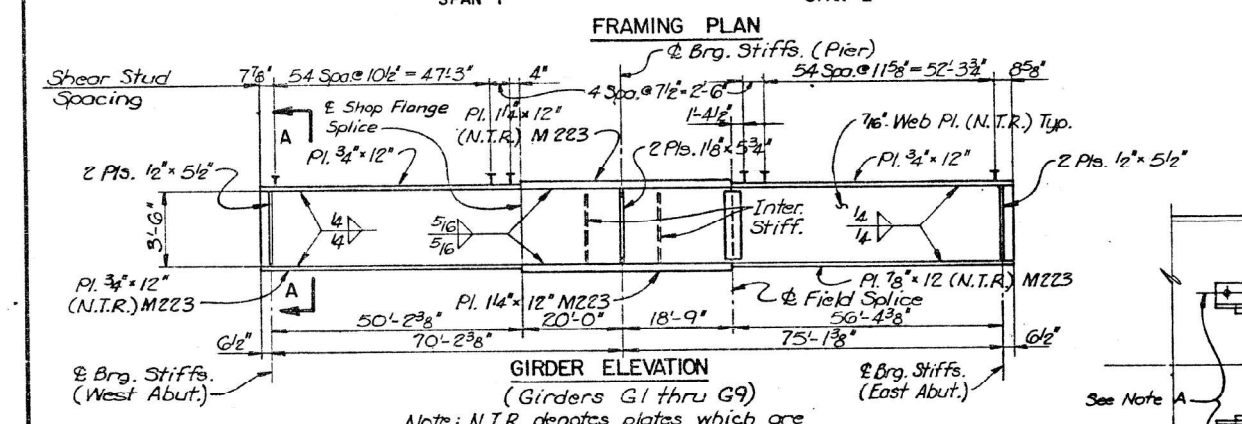
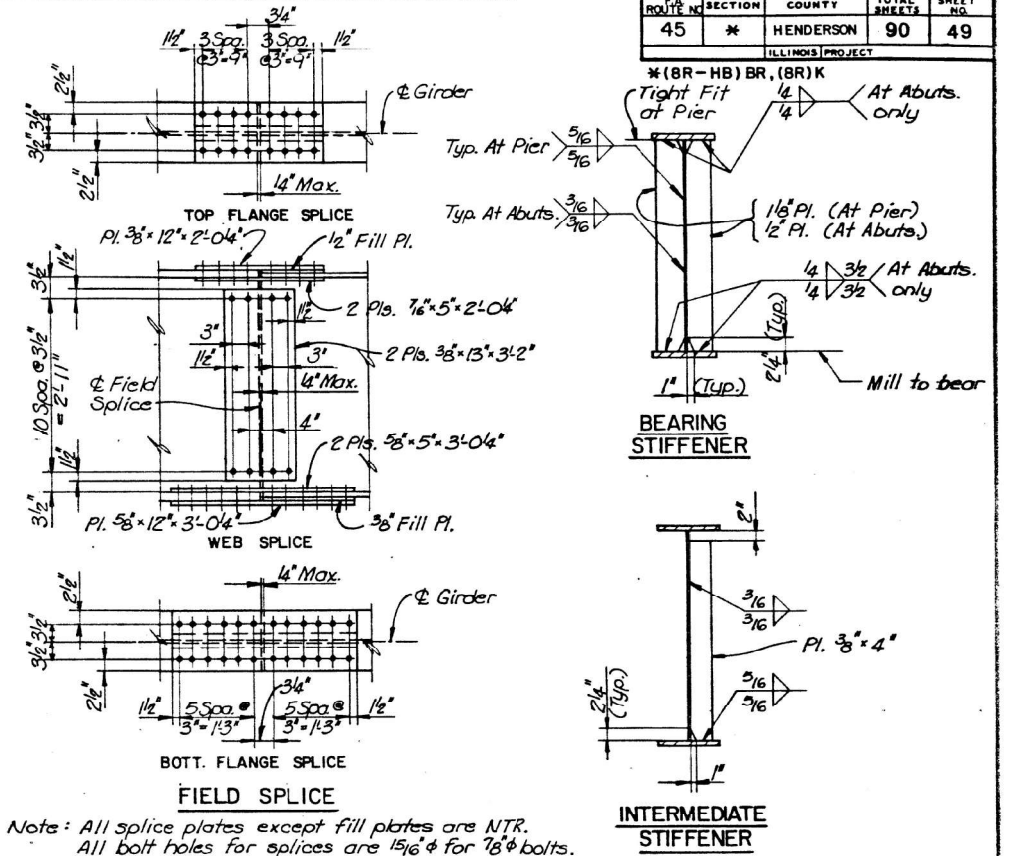
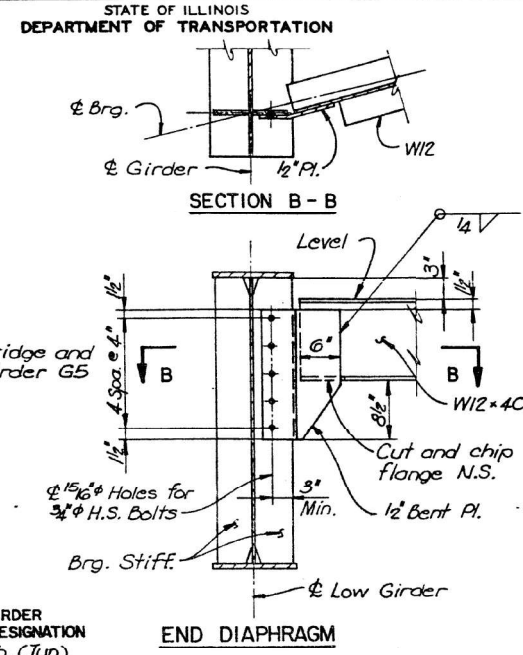
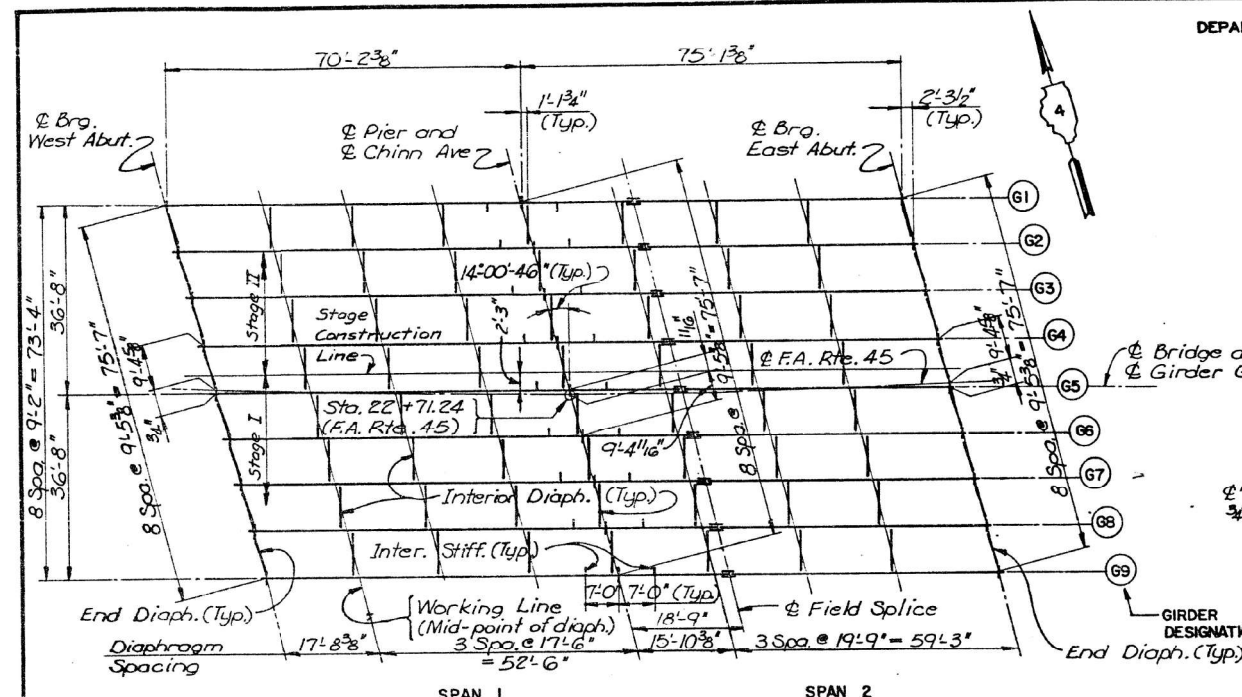
LOCATION 1 - STRUCTURE INFORMATION
SN 036-0035

SCALE: N/A SHEET 4 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	44
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 1 (US 34 OVER MELLINEER AVE (OR 35))
SN 036-0035

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	*	HENDERSON	90	49



LOCATION	TOP OF WEB ELEVATIONS * GIRDER AND ELEVATIONS								
	G1	G2	G3	G4	G5	G6	G7	G8	G9
BRG. (WEST ABUT.)	546.210	546.430	546.606	546.781	546.955	546.844	546.733	546.623	546.467
PIER	547.192	547.412	547.587	547.762	547.938	547.828	547.717	547.606	547.450
SPLICE	547.489	547.709	547.884	548.060	548.235	548.125	548.014	547.902	547.747
BRG. (EAST ABUT.)	548.247	548.466	548.641	548.816	548.989	548.877	548.766	548.654	548.497

DESIGNED BY: E. Retzold
 CHECKED BY: C. Wiczorek
 DRAWN BY: G.J. Dee
 CHECKED BY: E. Retzold

STRUCTURAL STEEL NOTES
 The main load carrying member components subject to tensile stress shall conform to the supplemental requirements for notch toughness zone 2 (N.T.R.). These components are the tension flanges, webs, and all splice plate material, except fill plates, of the steel girders.
 2-Hardened washers shall be required over all 1 5/16 inch holes for diaphragm connection plates.
 * indicates high-strength bolt, shop or field installed unless otherwise noted.
 All steel labeled M223 shall be AASHTO M223, Grade 50.

F.A. RTE. 45 OVER CHINN AVE.
 SECT. (BR-HB) BR
 FRAMING PLAN, GIRDER ELEVATIONS
 AND STEEL DETAILS
 HENDERSON COUNTY
 STRUCTURE NO. 036-0035
 STA. 22+71.24 F.A. RTE. 45
 STA. 99+66.22 CHINN AVE.

10451
 865421

Note: Do not scale this drawing. Follow dimensions.

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 PLOT DATE: 9/8/2025



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USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000 / 1 in.	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

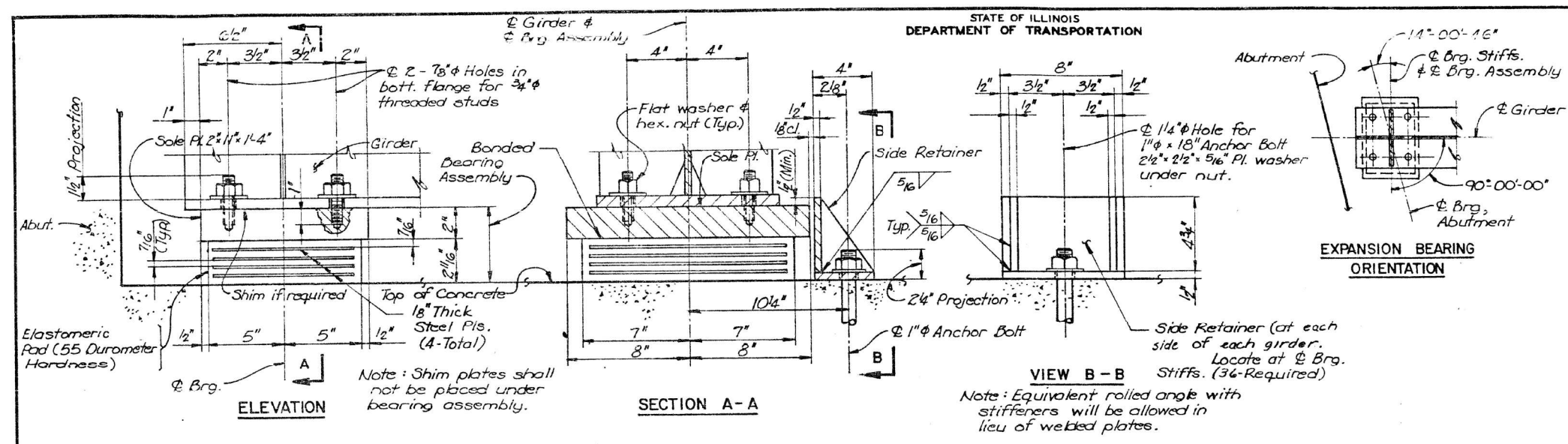
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 - STRUCTURE INFORMATION			
SN 036-0035			
SCALE: N/A	SHEET 5 OF 6 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	45
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 1 (US 34 OVER MELLINEER AVE (OR 35))
SN 036-0035

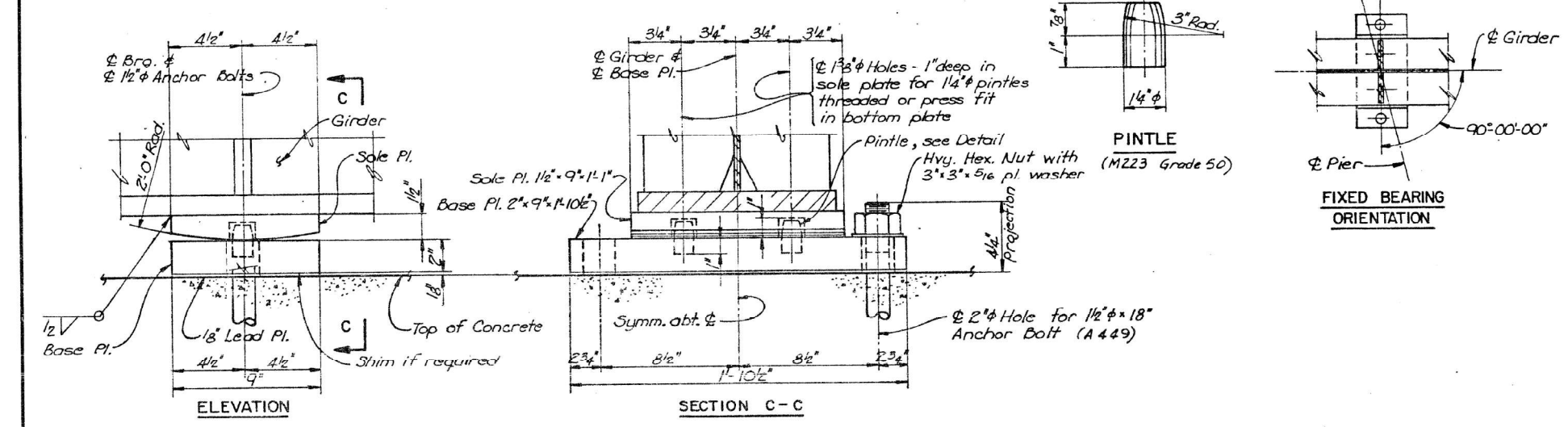
F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	*	HENDERSON	90	50
ILLINOIS PROJECT				
*(8R-HB) BR, (8R) K				



	0.4 SPAN 1	PIER	0.6 SPAN 2
I_s (in ⁴)	10925	16730	11611
I_c (in ⁴)	28161	—	30446
I_c 3n (in ⁴)	21255	—	22801
S_s (in ³)	502	752	553
S_c (in ³)	714	—	781
S_c 3n (in ³)	655	—	717
ϕ (Kips/Ft.)	1.06	1.12	1.06
$M \phi$ (Ft.-Kips)	312	798	404
$S \phi$ (Kips/Ft.)	0.360	0.360	0.360
$M_s \phi$ (Ft.-Kips)	134	197	165
$M \phi$ (Ft.-Kips)	692	464	750
M_{imp} (Ft.-Kips)	173	116	187
$5/8 (M \phi + I)$ (Ft.-Kips)	1442	967	1562
M_a (Ft.-Kips)	2454	2551	2770
$f_s \phi$ non-comp. (ksi)	7.5	15.9	8.8
$f_s \phi$ comp. (ksi)	2.5	—	2.8
$f_s 5/8 (\phi + I)$ (ksi)	24.2	15.4	24.0
f_s (Overload) (ksi)	34.2	31.3	35.6
f_s (Total) (ksi)	44.5	40.7	46.3
VR (Kips)	68	—	68.3

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18

TYPE I ELASTOMERIC EXPANSION BEARING AT ABUTMENTS



M_a (Applied Moment) = $1.3 [M \phi + M_s \phi + 5/8 (M \phi + I)]$
 I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload).
 VR is the maximum ϕ + Impact shear range in span.
 f_s (Total) is the sum of the stresses due to $1.3 [M \phi + M_s \phi + 5/8 (M \phi + I)]$
 f_s (Overload) is the sum of the stresses due to $M \phi + M_s \phi + 5/8 (M \phi + I)$
 $M \phi$ - Moment due to dead loads on non-composite section.
 $M_s \phi$ - Moment due to dead loads on composite section.
 $M \phi$ - Moment due to live load on non-composite or composite section
 I - Live load impact

	ABUTS.	PIER
$R \phi$	40.3	132.7
$R \phi$	55.1	71.8
Imp	13.8	17.9
Total	109.2	222.4

Note: All reactions are in kips.

DESIGNED: E. Petzold
 CHECKED: C. Wiczorek
 G. J. Dee
 DRAWN: E. Petzold
 CHECKED:

NOTES
 For Structural Steel Notes, see Sheet 49
 For Anchor Bolt Detail, see Sheet 51.
 Anchor bolts may be built into the masonry; see Sheet 51 for anchor bolt installation.

F.A. RTE. 45 OVER CHINN AVE.
 SECT. (8R-HB) BR
BEARINGS AND STRESS TABLES
 HENDERSON COUNTY
 STRUCTURE NO. 036-0035
 STA. 22+71.24 F.A. RTE. 45
 STA. 99+66.22 CHINN AVE.

PREPARED BY:
 SVERDRUP CORPORATION
 ST. LOUIS, MISSOURI

Note: Do not scale this drawing. Follow dimensions.



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000 / 1 ft.	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 - STRUCTURE INFORMATION
SN 036-0035

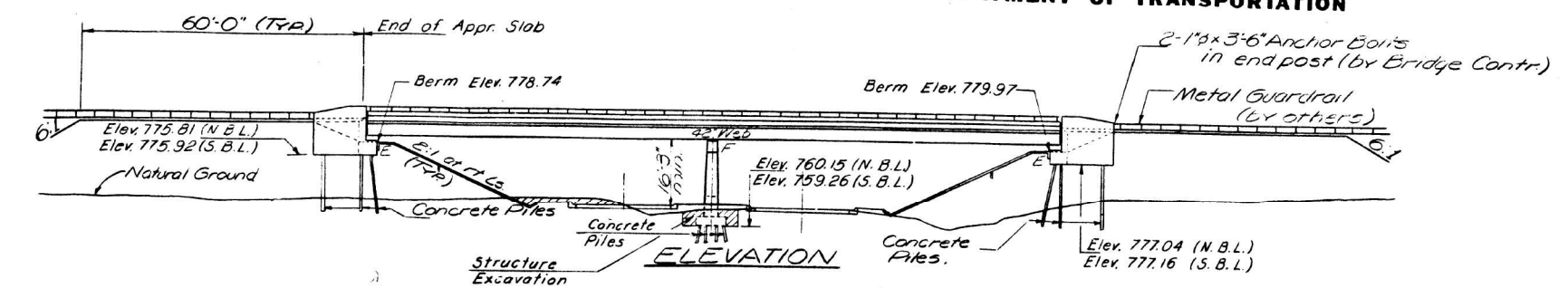
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	46
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 2 & 3 (US 34 OVER W. MAIN)
SN 048-0073 & SN 048-0074
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
48-18	18B-1	KNOX	31	0	19 SHEETS

O.M.: Elev 766.947 Spike and w. in top of corner post s. side U.S. 34 Rt. Sta 53+46



GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Fasteners shall be high strength bolts. Bolts 3/8"; open holes 1/2", unless otherwise noted.

Calculated weight of Structural Steel =
 The Basic Lead Silica Chromate paint system shall be used for shop and field painting of structural steel.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting diaphragms over supports.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.

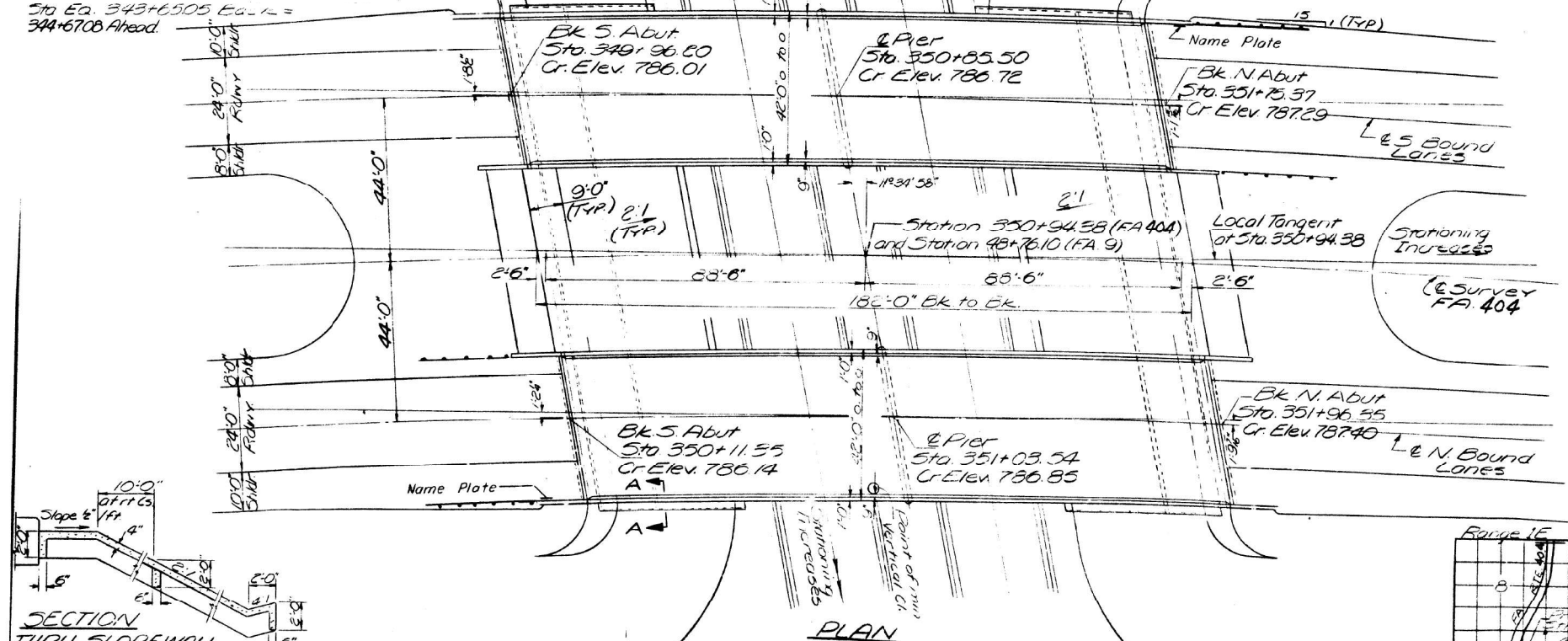
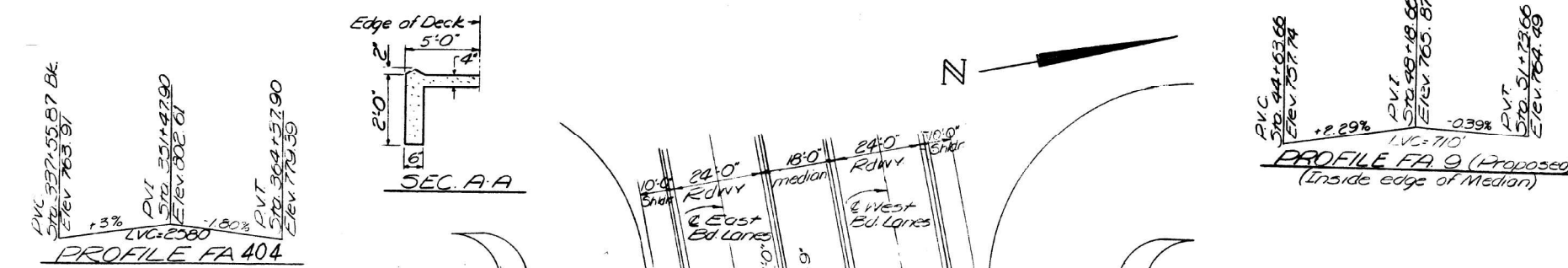
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

See Proposal for Borings.

Concrete piles at abutments shall be driven in holes pre-cored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.



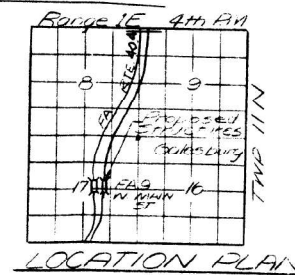
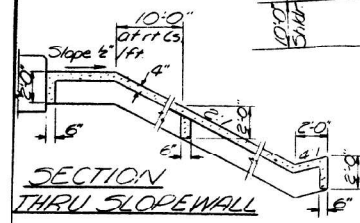
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course C.I. I	Tons	129		129
Structure Excavation	Cu. Yds		166	166
Protective Coat	Sq. Yds	301		301
Class X Concrete	Sq. Yds	467.5	353.7	821.2
Structural Steel	L. S.			L. S.
Stud Shear Connectors	Each	3996		3996
Aluminum Railing	Lin. Ft.	716		716
Reinforcement Bars	Lbs.	111,360	39,390	150,750
Concrete Piles	Lin. Ft.			3753
Test Piles Concrete	Each		4	4
Name Plates	Each			2
Slope Wall 4 in.	Sq. Yds.		1667	1667
Waterproofing Membrane System	Sq. Yds	1529		1529
Preformed Joint Sealer (2 1/2)	Lin. Ft.	172		172

* The Contractor shall drive four concrete test piles in a permanent location; one at S. Abut. N. Bound Lanes, one at N. Abut. S. Bound Lanes and one at each Pier as directed by the Engineer before ordering the remainder of piles.

** Not included in this Contract

STATION 350+94.38
 BUILT 197 BY
 STATE OF ILLINOIS
 FA RT 404-SEC 48-18B-1
 FA PROJ. EBU-404-(6)
 LOADING HS 20
NAME PLATE
 See Std 2113



George AL-Bozi
 DESIGNED
 CHECKED J. E. F.
 R.P.S.
 DRAWN FERRANDO
 CHECKED

EXAMINED
 PASSED
 APPROVED

FA 404 CURVE DATA
 PI Sta. 353+76.64
 Δ = 55° 00' R
 D = 2° 00'
 R = 5864.79'
 T = 905.56'
 L = 1754.17'
 E = 139.75'
 SE = 0.061/ft

DESIGN STRESSES
 f_c = 1400 psi (Sub. Foraper) f_c = 1200 psi (Deck)
 f_s = 20000 psi (Reinf)
 f_s = 80,000 psi (Struct) Fut. ID 25#15
 v_c = 75 psi (Frags)
 n = 10
 Δ Deflection 1/20 Comp.
 Design Specifications 15-1969
 AASHTO (as app. 11/20/04)
 LOADING HS 20-44

4-113

WEST MAIN STREET

PROJECT EBU-404-(6)
 GENERAL PLAN & ELEVATION
 FA RT 404 OVER FA RT 9
 FA RT 404 SEC. 48-18B-1
 KNOX COUNTY
 STA. 350+94.38
4-113



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

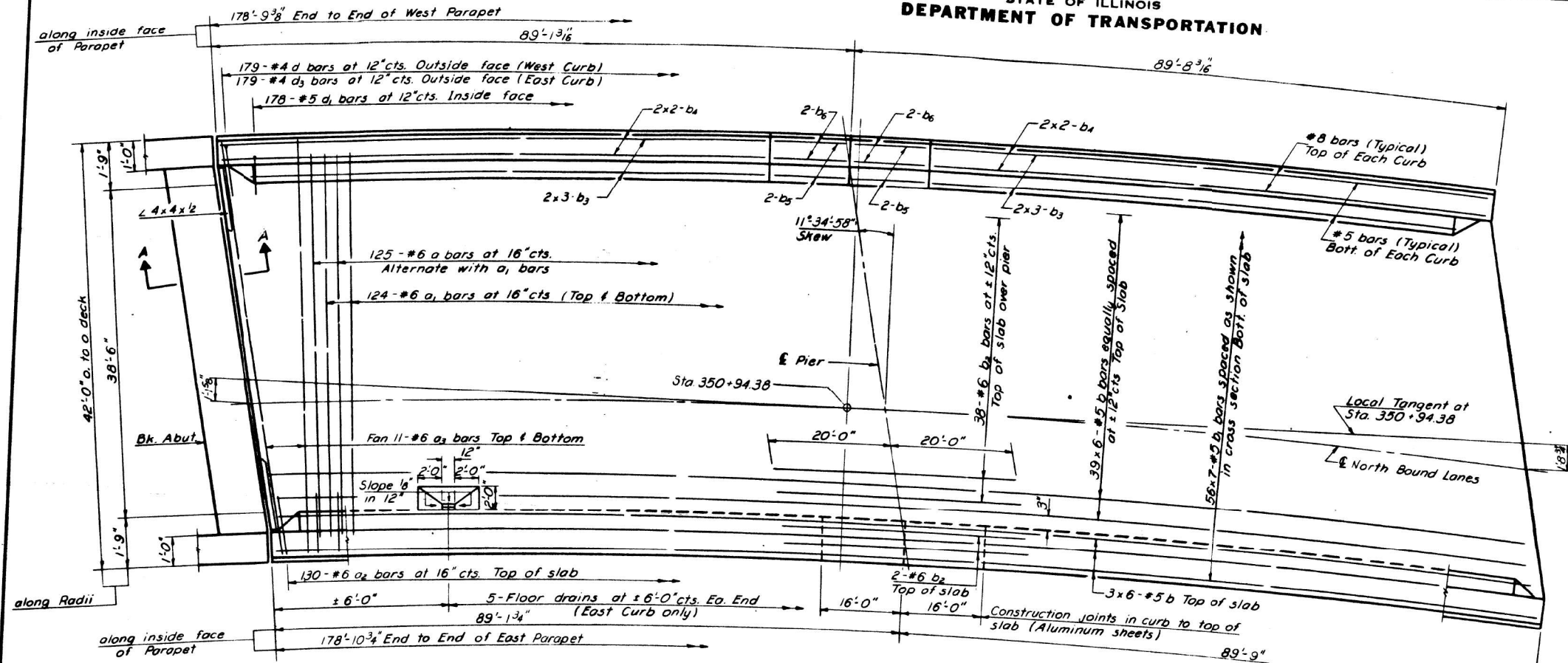
LOCATION 2 & 3 - STRUCTURE INFORMATION
SN 048-0073 & SN 048-0074

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	47
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

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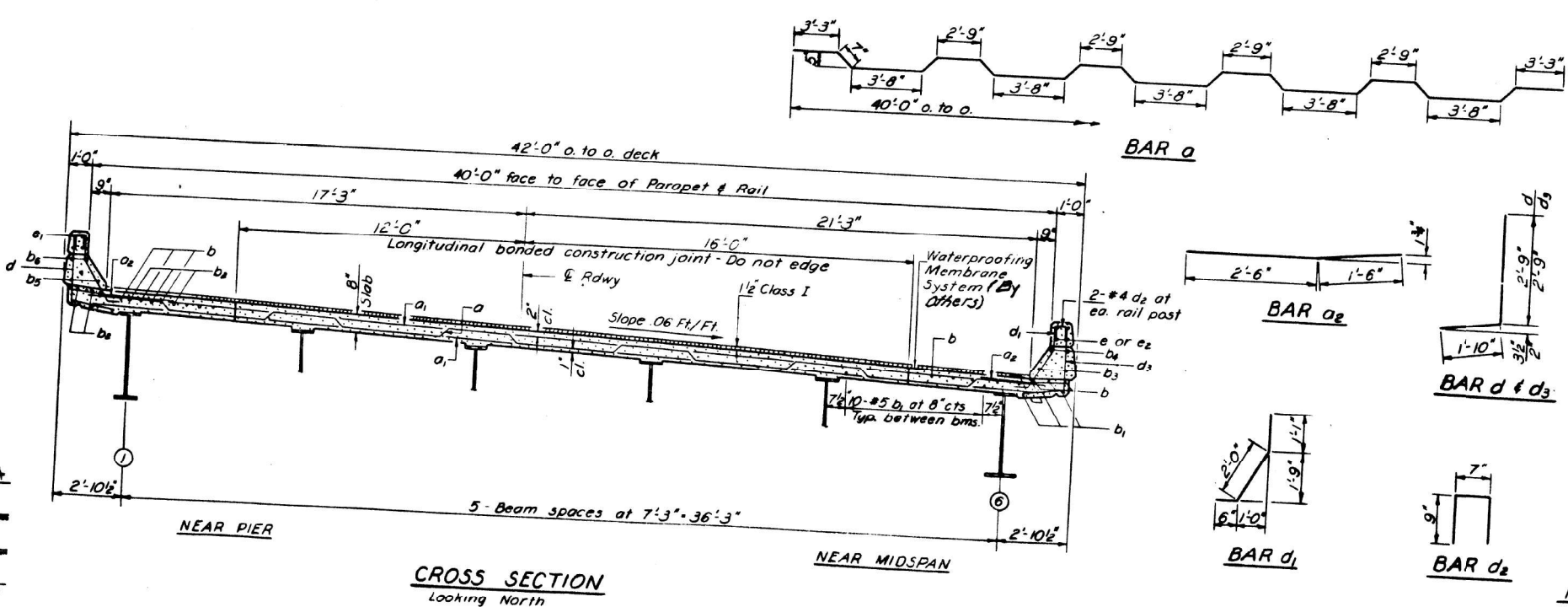
FOR INFORMATION ONLY
 LOCATION 2 & 3 (US 34 OVER W. MAIN)
 SN 048-0073 & SN 048-0074
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	48-18	COUNTY	KNOX	TOTAL SHEETS	31	SHEET NO.	12
FILE NO.	404	SECTION	HB-1	DATE	12	19 SHEETS	



Notes:
 Bars indicated thus 20x3-#5 etc indicates 20 lines of bars with 3 lengths per line.
 Min. bar laps = 24 dia.
 Work this sheet with sheet # 7
 All transverse dimensions are radial.
 For placement of bars d_2 and e, e_1, e_2 see sheet # 8

PLAN



CROSS SECTION
 Looking North

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	125	#6	41'-8"	~
a1	248	#6	40'-9"	~
a2	260	#6	4'-0"	~
a3	44	#6	41'-3"	~
b	270	#5	31'-0"	~
b1	392	#5	26'-9"	~
b2	42	#6	40'-0"	~
b3	24	#5	25'-6"	~
b4	16	#8	37'-9"	~
b5	8	#5	15'-9"	~
b6	8	#8	15'-9"	~
d	179	#4	4'-7"	~
d1	356	#5	3'-7"	~
d2	80	#4	2'-1"	~
d3	179	#4	4'-7"	~

Reinforcement Bars 1bs 54740
 Class X Concrete Cu.Yds 222.4
 Stud Shear Connector Ea. 1998

Parapet longitudinal reinforcement and class X concrete are billed on Sheet # 8

George AL-Bazi
 DESIGNED
 CHECKED
 DRAWN R.P. Summer
 CHECKED

EXAMINED
 PASSED
 APPROVED
 DIRECTOR OF HIGHWAY'S

SUPERSTRUCTURE
 NORTH BOUND LANES
 FA. RT. 404 SEC. 48-18HB-1
 KNOX COUNTY
 STATION 350+94.38



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000" / 1'	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

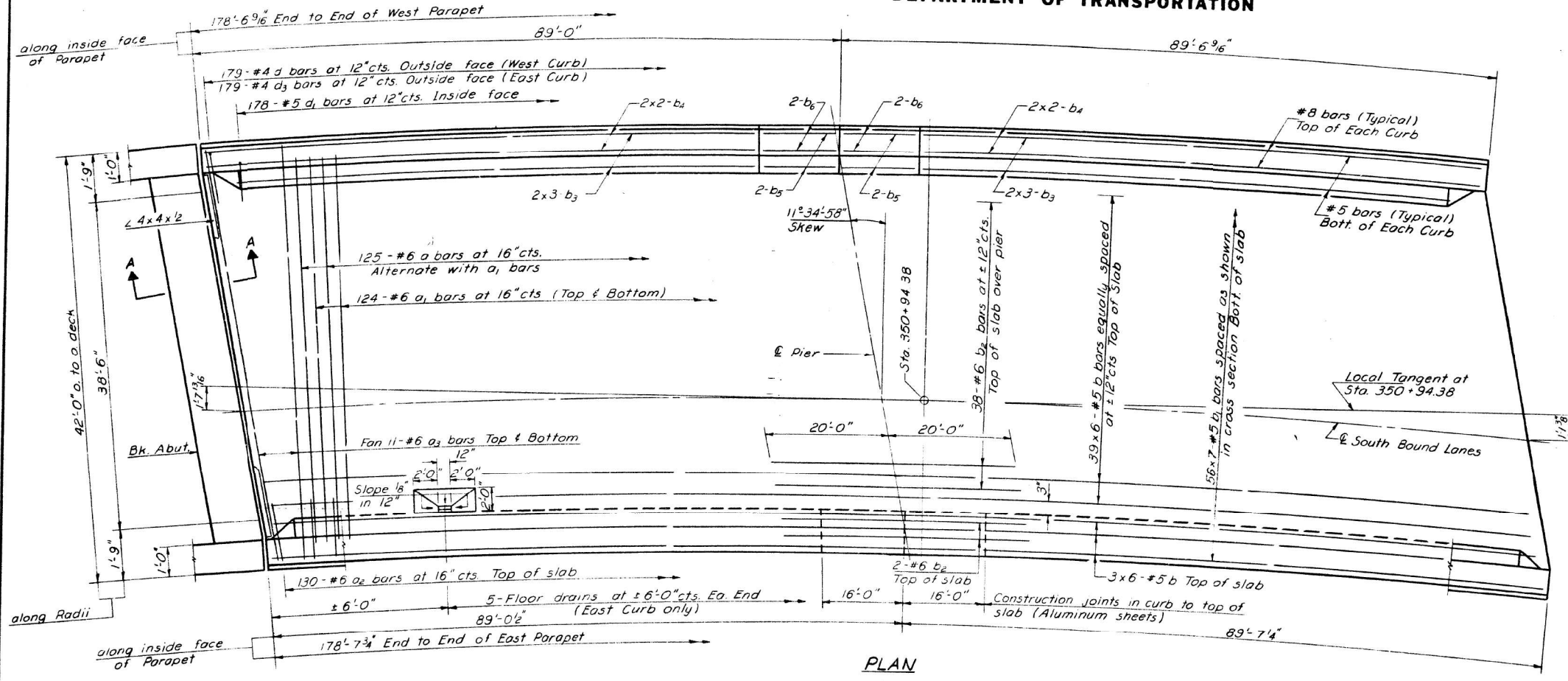
LOCATION 2 & 3 - STRUCTURE INFORMATION			
SN 048-0073 & SN 048-0074			
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	48
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY
LOCATION 2 & 3 (US 34 OVER W. MAIN)
SN 048-0073 & SN 048-0074**

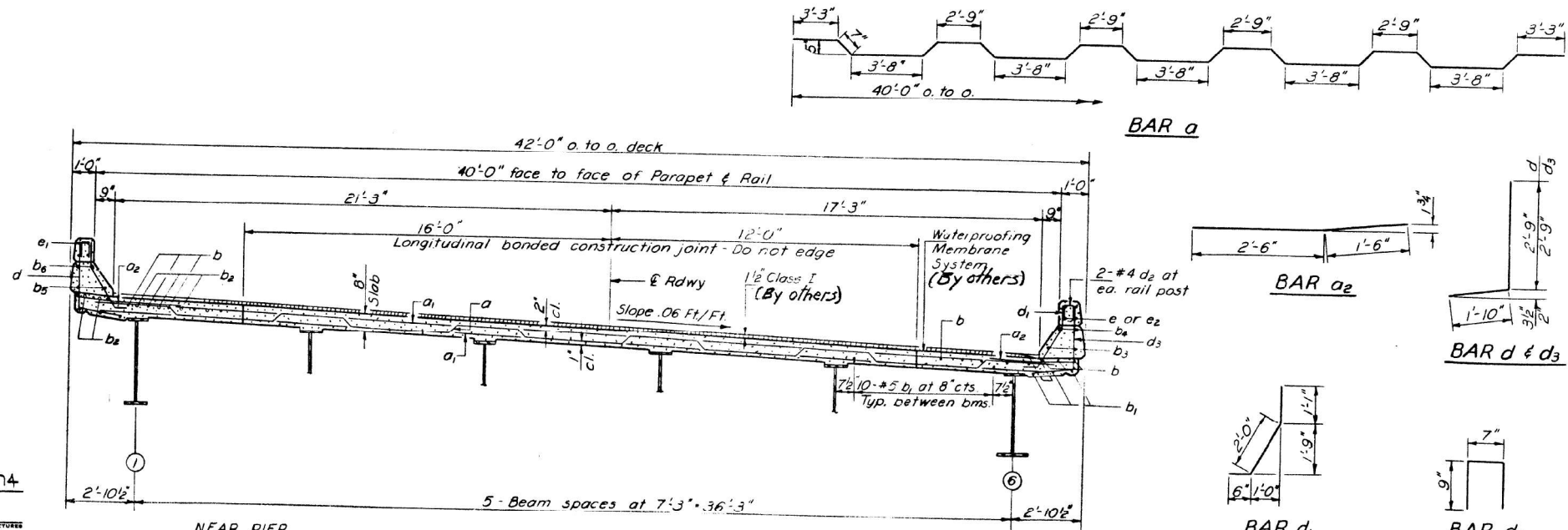
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 19 SHEETS
404 HB-1	48-18	KNOX	31	13	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJ. ACT.			



Notes:
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line. Min. bar laps = 24 dia.
Work this sheet with sheet # 7
All transverse dimensions are radial.
For placement of bars d_2 and e_1, e_2 sheet # 9

PLAN



**CROSS SECTION
Looking North**

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	125	#6	41'-8"	
a ₁	248	#6	40'-9"	
a ₂	260	#6	4'-0"	
a ₃	44	#6	41'-3"	
b	270	#5	31'-0"	
b ₁	392	#5	26'-9"	
b ₂	42	#6	40'-0"	
b ₃	24	#5	25'-6"	
b ₄	16	#8	37'-9"	
b ₅	8	#5	15'-9"	
b ₆	8	#8	15'-9"	
d	179	#4	4'-7"	
d ₁	356	#5	3'-7"	
d ₂	80	#4	2'-1"	
d ₃	179	#4	4'-7"	
Reinforcement Bars	lbs		54740	
Class X Concrete	Cu. Yds		222.0	
Stud Shear Connector	Ea.		1998	

Parapet longitudinal reinforcement and class X concrete are billed on Sheet # 9

**SUPERSTRUCTURE
SOUTH BOUND LANES
FA. RT. 404 SEC. 48-18HB-1
KNOX COUNTY
STATION 350+94.38**

George AL-Bazi DESIGNED CHECKED DRAWN R. P. Summer CHECKED	OCT 22 1974 EXAMINED PASSED APPROVED DIRECTOR OF HIGHWAYS
---	---

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 2 & 3 - STRUCTURE INFORMATION
SN 048-0073 & SN 048-0074**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2026	VAR	KNOX	136	49
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

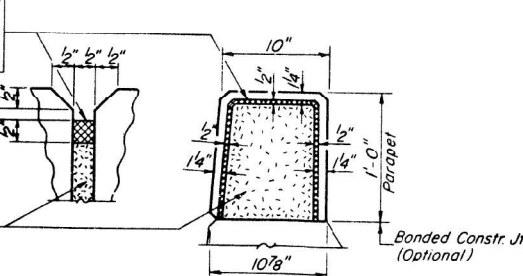
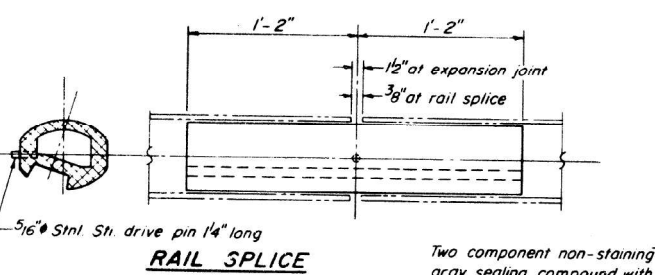
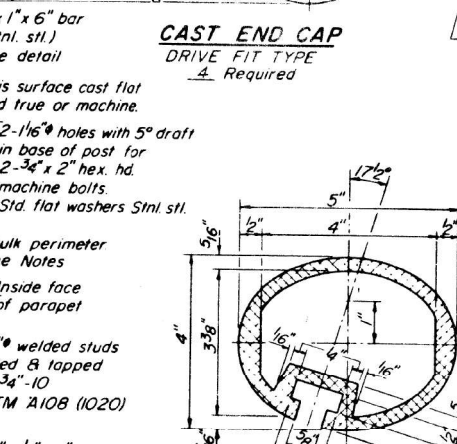
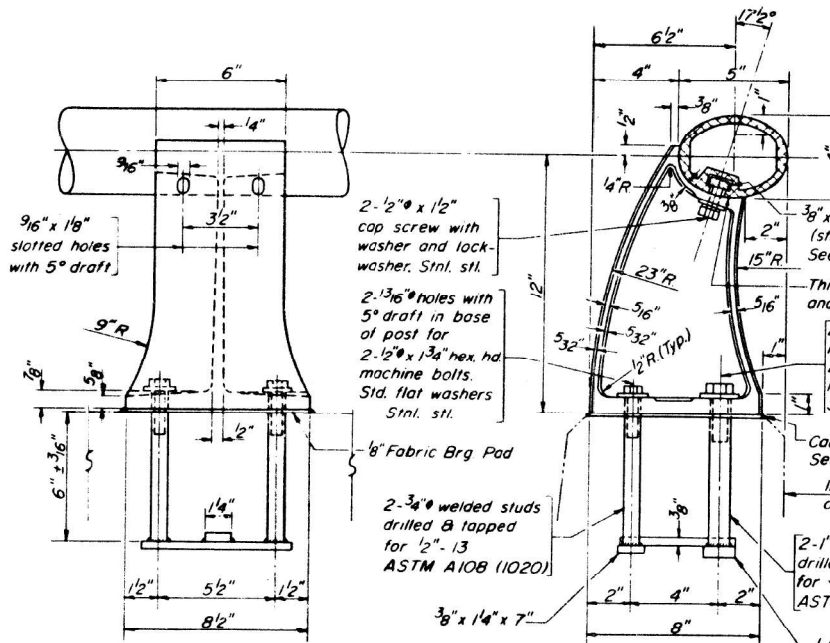
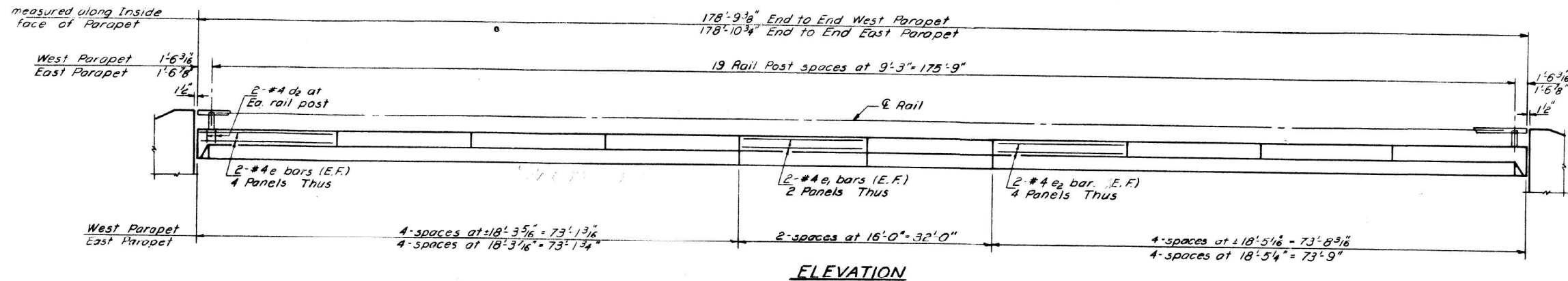
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TWM, INC.
IL DESIGN FIRM
LICENSE NO: 184-001220

FOR INFORMATION ONLY
LOCATION 2 & 3 (US 34 OVER W. MAIN)
SN 048-0073 & SN 048-0074
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
404	48-18 HB-1	KNOX	31	15	19 SHEETS



Note: For Corner Detail see sheet # 9

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	32	#4	18'-0"	—————
e ₁	16	#4	15'-9"	—————
e ₂	32	#4	18'-1"	—————

Material	Quantity	Shape
Reinforcement Bars	Lbs.	340
Class X Concrete	Cu Yds.	11.6
Aluminum Railing	Lin Ft.	358

NOTES:

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37(a) of the Standard Specifications except the tensile strength requirement shall be modified to 100,000 psi.

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

George Al-Bazi
 DESIGNED

R. P. Summer
 DRAWN

EXAMINED: _____
 PASSED: _____
 APPROVED: _____

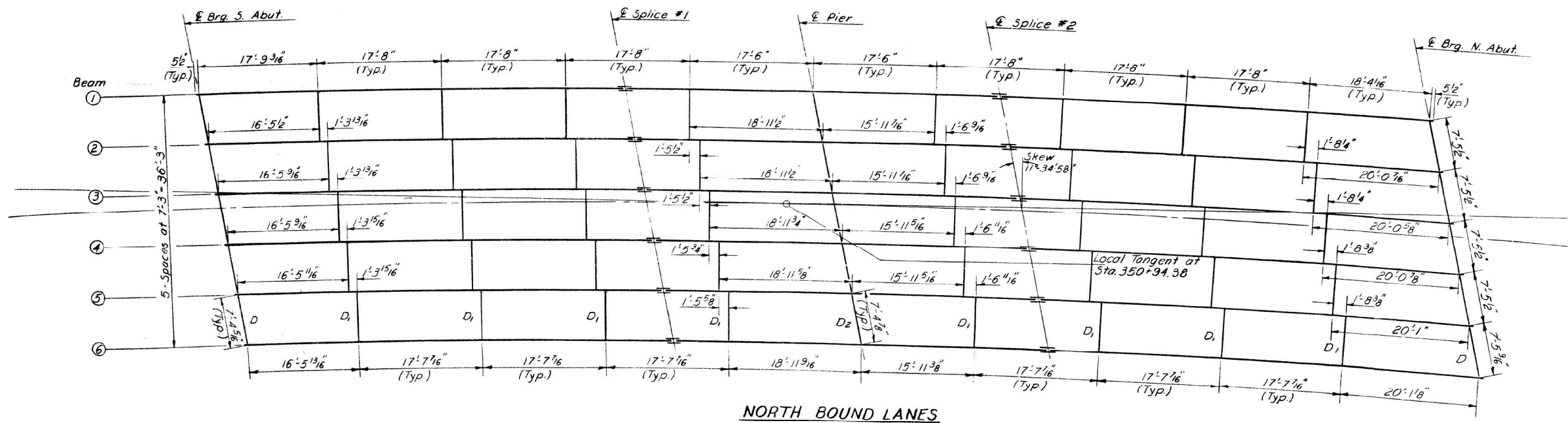
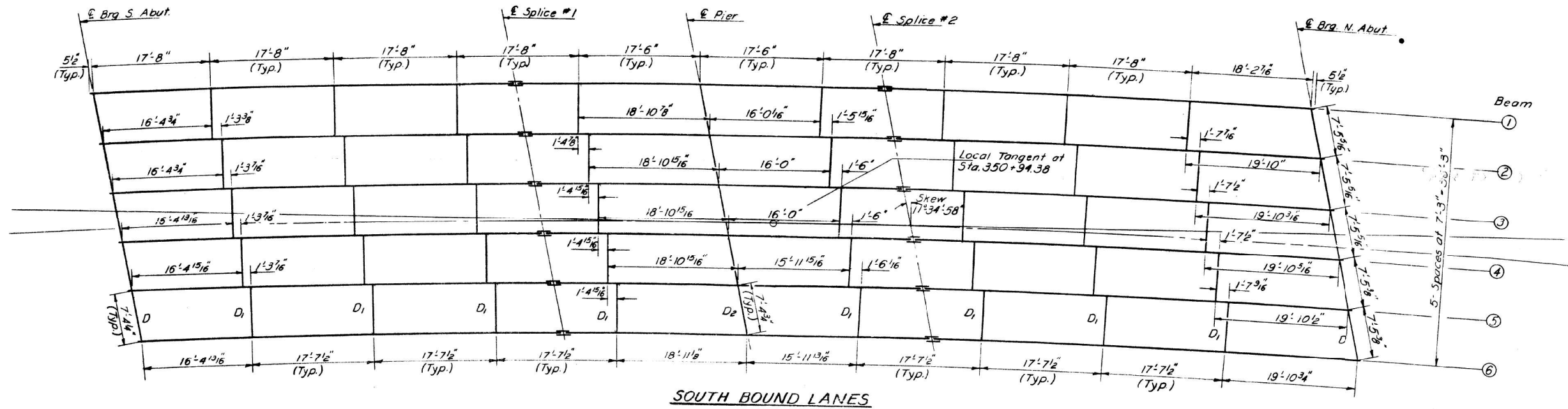
R-17 4.22.24 0.18.20

ALUMINUM RAILING
NORTH BOUND LANES
EA. RT. 404 SEC. 48-18HB-1
KNOX COUNTY
STATION 350+94.38

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 DATE: 9/8/2025

FOR INFORMATION ONLY
LOCATION 2 & 3 (US 34 OVER W. MAIN)
SN 048-0073 & SN 048-0074
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	48-1	KNOX	31	17
SHEET NO. 10				
19 SHEETS				



DESIGNED	George AL-Bozi
CHECKED	[Signature]
DRAWN	F. Summer
CHECKED	[Signature]

EXAMINED	[Signature]	OCT 22 1974
PASSED	[Signature]	
APPROVED	[Signature]	
DIRECTOR OF HIGHWAYS		

FRAMING PLAN
NORTH & SOUTH BOUND LANES
F.A. RT. 404 SEC. 48-18HB-1
KNOX COUNTY
STATION 350+94.38

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000' / 1"	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/8/2025	CHECKED	- TBP	REVISED	-
		DATE	- SEPT 2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

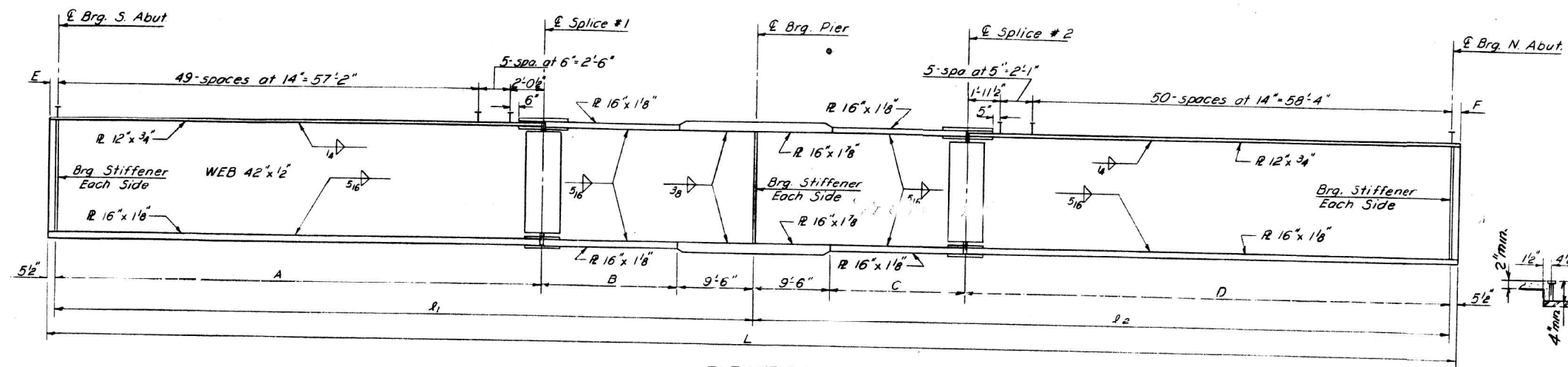
LOCATION 2 & 3 - STRUCTURE INFORMATION
SN 048-0073 & SN 048-0074

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	51
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
 LOCATION 2 & 3 (US 34 OVER W. MAIN)
 SN 048-0073 & SN 048-0074
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	48-18	KNOX	31	18
SHEET NO. 11 / 19 SHEETS				



ELEVATION

BEAM DIMENSIONS

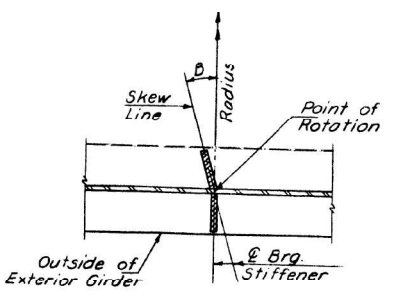
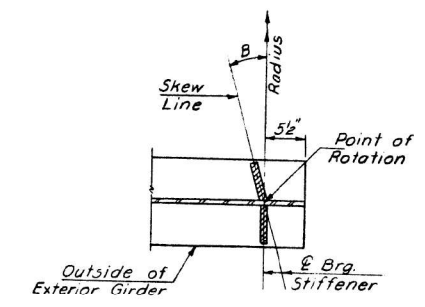
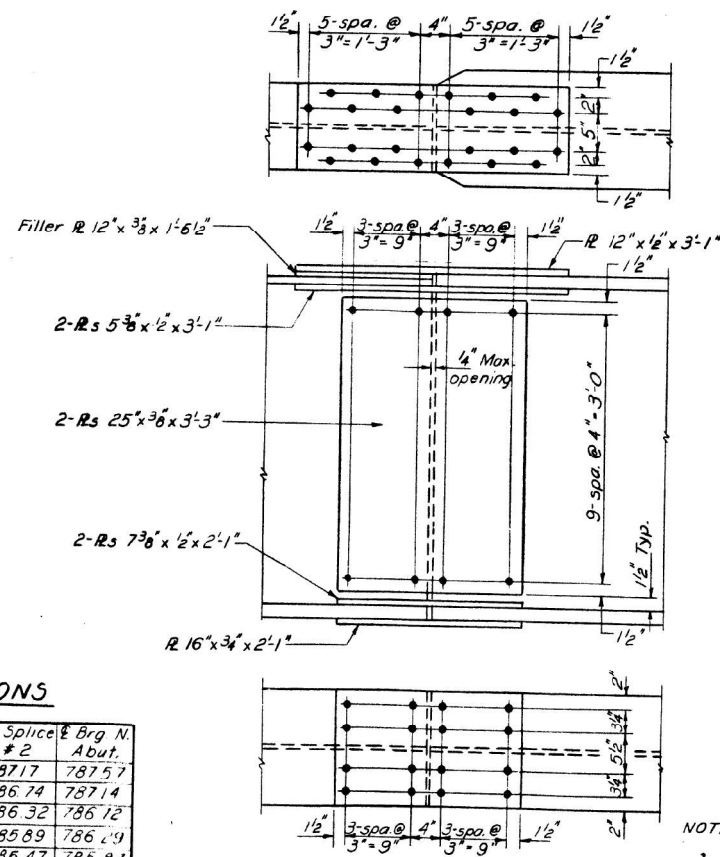
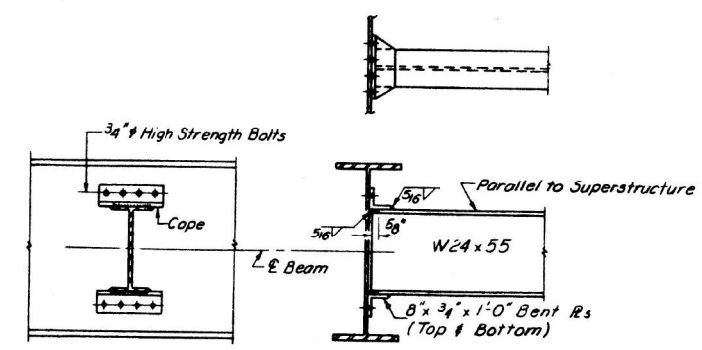
Beam	Radius	L ₁	L ₂	L	A	B	C	D	E	F
Beam 1	2928.915	88'-2"	88'-8 1/8"	177'-9 1/8"	61'-8 9/16"	16'-11 1/8"	17'-0"	62'-2 7/8"	5 3/16"	3 7/8"
Beam 2	2921.665	88'-2 1/8"	88'-8 3/8"	177'-9 3/8"	61'-8 3/8"	16'-11 1/2"	17'-0 1/8"	62'-2 1/2"	5 3/8"	3 5/8"
Beam 3	2914.415	88'-2 3/8"	88'-8 1/2"	177'-9 1/2"	61'-8 1/2"	16'-11 1/2"	17'-0 1/4"	62'-2 3/8"	5 1/2"	3 5/8"
Beam 4	2907.165	88'-2 1/2"	88'-8 1/4"	177'-10 1/4"	61'-8 3/4"	16'-11 1/2"	17'-0 1/8"	62'-2 1/8"	5 3/4"	3 1/2"
Beam 5	2899.915	88'-2 3/8"	88'-8 3/8"	177'-10 3/8"	61'-8 3/8"	16'-11 3/8"	17'-0 1/8"	62'-2 3/8"	5 3/8"	3 3/8"
Beam 6	2892.665	88'-2 1/2"	88'-8 1/4"	177'-10 1/2"	61'-8 1/4"	16'-11 1/4"	17'-0 3/8"	62'-2 1/4"	5 1/2"	3 3/8"
Beam 1	2836.915	88'-3 1/8"	88'-10 1/8"	178'-0 1/4"	61'-9 3/8"	16'-11 1/4"	17'-0 1/8"	62'-3 3/8"	6 3/8"	4 3/8"
Beam 2	2829.665	88'-3 3/8"	88'-10 3/8"	178'-0 3/4"	61'-9 3/8"	16'-11 1/4"	17'-0 1/2"	62'-3 1/4"	6 1/8"	4 1/8"
Beam 3	2822.415	88'-3 1/2"	88'-10 1/2"	178'-0 3/4"	61'-9 1/2"	16'-11 3/8"	17'-0 1/2"	62'-3 3/8"	6 1/2"	4 1/8"
Beam 4	2815.165	88'-3 1/2"	88'-10 1/2"	178'-1"	61'-9 1/2"	16'-11 3/8"	17'-0 3/8"	62'-3 3/8"	6 3/8"	4 5/8"
Beam 5	2807.915	88'-3 3/8"	88'-10 3/8"	178'-1 1/4"	61'-9 3/8"	16'-11 3/8"	17'-0 3/8"	62'-4 1/8"	6 3/8"	5 1/8"
Beam 6	2800.665	88'-3 1/2"	88'-10 1/2"	178'-1 1/2"	61'-9 1/2"	16'-11 3/8"	17'-0 3/8"	62'-4 3/8"	6 1/8"	5 3/8"

SHEAR CONNECTORS
 333 Req'd Ea. Girder



ANGLE "B"

Beam	South Bound Lanes		
	S. Abut	Pier	N. Abut
Beam 1	9°-36'-04"	11°-19'-33"	13°-03'-40"
Beam 2	9°-37'-30"	11°-21'-15"	13°-05'-38"
Beam 3	9°-38'-57"	11°-22'-58"	13°-07'-38"
Beam 4	9°-40'-25"	11°-24'-42"	13°-09'-38"
Beam 5	9°-41'-53"	11°-26'-26"	13°-11'-38"
Beam 6	9°-43'-21"	11°-28'-11"	13°-13'-39"
Beam	North Bound Lanes		
	S. Abut	Pier	N. Abut
Beam 1	9°-54'-56"	11°-41'-53"	13°-29'-33"
Beam 2	9°-56'-28"	11°-43'-43"	13°-31'-40"
Beam 3	9°-58'-01"	11°-45'-33"	13°-33'-47"
Beam 4	9°-59'-34"	11°-47'-23"	13°-35'-55"
Beam 5	10°-01'-08"	11°-49'-15"	13°-38'-04"
Beam 6	10°-02'-43"	11°-51'-06"	13°-40'-14"



TOP OF WEB ELEVATIONS

Beam	Brig. S. Abut.	Splice #1	Brig. Pier	Splice #2	Brig. N. Abut.
Bm. 1	786.32	786.65	786.91	787.17	787.57
Bm. 2	785.89	786.22	786.48	786.74	787.14
Bm. 3	785.47	785.80	786.06	786.32	786.72
Bm. 4	785.04	785.37	785.63	785.89	786.29
Bm. 5	784.62	784.95	785.21	785.47	785.87
Bm. 6	784.20	784.52	784.78	785.04	785.44
Bm. 1	786.71	786.55	786.80	787.05	787.45
Bm. 2	786.29	786.11	786.37	786.63	787.03
Bm. 3	785.87	785.70	785.95	786.20	786.59
Bm. 4	785.44	785.26	785.52	785.78	786.17
Bm. 5	785.02	784.84	785.10	785.35	785.74
Bm. 6	784.59	784.41	784.67	784.93	785.32

SPLICE
 5/8" H.S. Bolts

NOTES:

- The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs and splice plates of the steel girders or wide flange beams.
- Bearing Seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

STRUCTURAL STEEL
 NORTH & SOUTH BOUND LANES
 FA RT. 404 SEC. 48-18HB-1
 KNOX COUNTY
 STATION 350+94.38

George AL-Bozi
 DESIGNED

Checked: [Signature]
 DRAWN R.P. Summer

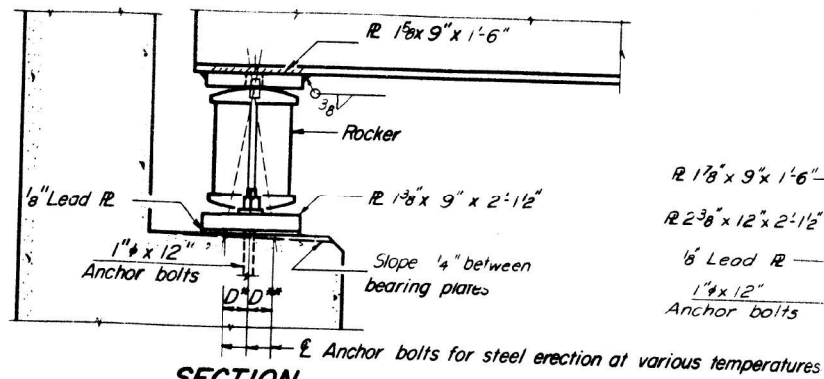
Examined: [Signature]
 PASSED

Approved: [Signature]
 DIRECTOR OF HIGHWAYS

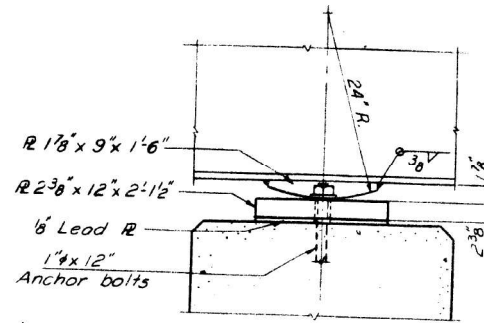
OCT 22 1974

FOR INFORMATION ONLY
LOCATION 2 & 3 (US 34 OVER W. MAIN)
SN 048-0073 & SN 048-0074
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 OF 19 SHEETS
404 HB-1	48-18	KNOX	31	19	



SECTION



ELEVATION

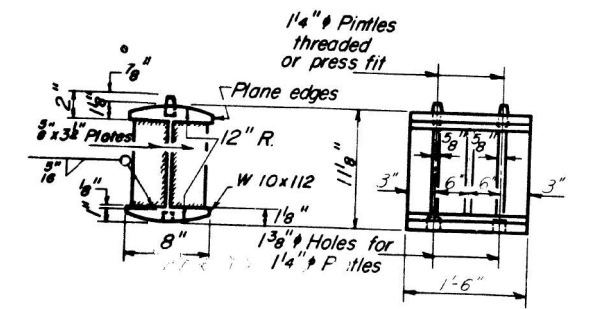
MOMENT TABLE - Symmetrical Composite 2 Span
(Composite in Positive Moment Areas Only)

INTERIOR GIRDER MOMENT TABLE	
	Pier
I_s (in ⁴)	14772
I_c (in ⁴)	40,418
S_s (in ³)	819
S_c (in ³)	1132
Q (K/)	.922
M_a (K)	442
$f_{s@}$ (ksi)	6.5
$S_{I@}$ (K/)	.462
$M_{s@}$ (K)	269
$M_{I@}$ (K)	718
M_{Imp} (K)	169
TOTAL (K)	1156
$f_{s@} + S_{I@}$ (ksi)	12.3
$f_{s@} + S_{I@}$ (ksi)	18.8
VR (K)	56.02

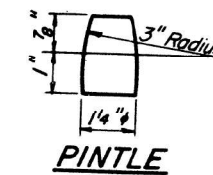
REACTION TABLE -

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R_a (K)	29.16	108.47
$R_{u+s@}$ (K)	57.22	113.04
imp (K)	9.71	14.73
R TOTAL (K)	96.09	236.24

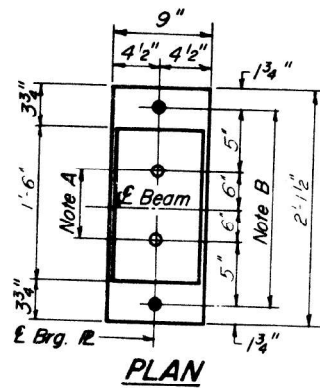
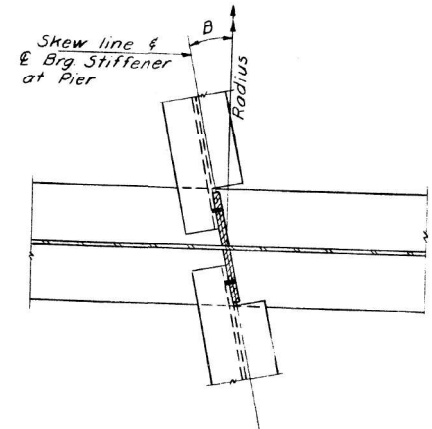
I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s .
 VR is the maximum \pm Impact shear range in span.



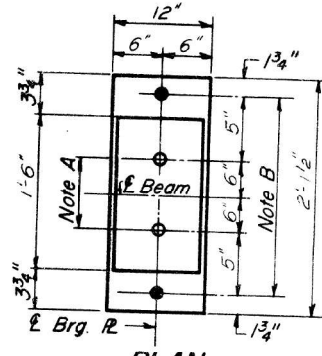
ROCKER



PINTLE



PLAN AT ABUTMENT



PLAN AT PIER

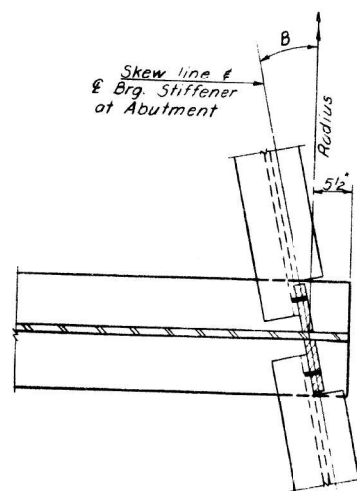
NOTE A
 1 3/8 inch Holes - 1 inch deep in top R. for pintles. Thread or press fit pintles into bottom R.

NOTE B
 1 1/2 inch Holes for 1 inch anchor bolts. 16 x 2 1/2 x 2 1/2 inch R. Washers under nut.

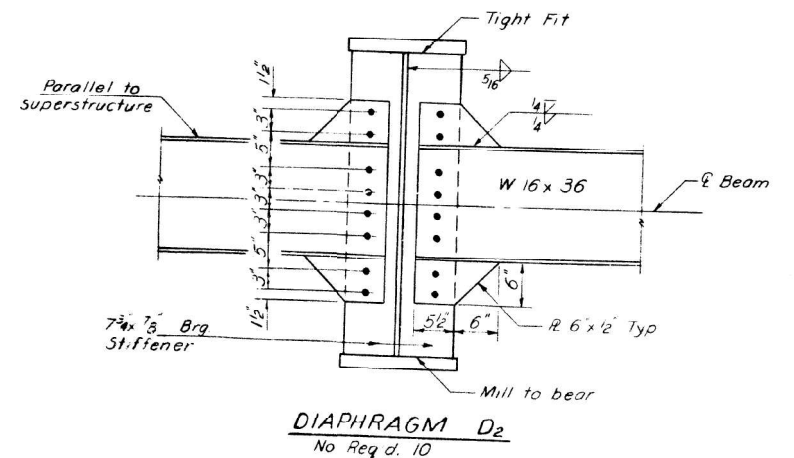
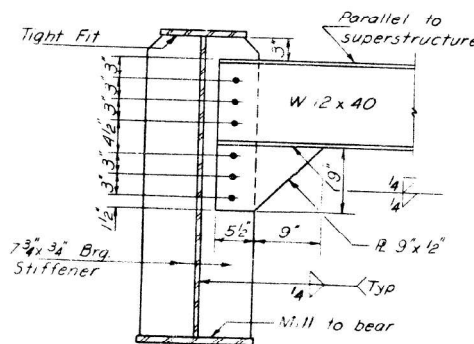
BEARING ASSEMBLY DETAILS

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- a) D^* (Side of brg. away from fixed brg.)
 $D^* = 1/8$ inch per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
- D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = 1/8$ inch per each 100' of expansion for every 15° rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D^* or D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



DIAPHRAGM D
 No Req'd 20



DIAPHRAGM D₂
 No Req'd. 10

BEARING DETAILS
 NORTH & SOUTH BOUND LANES
 F.A. RT. 404 SEC. 48-18 HB-1
 KNOX COUNTY
 STATION 350+94.38

Note:
 Work this sheet with sheet # 11

DESIGNED	George AL Bazi	EXAMINED	[Signature]
CHECKED	[Signature]	PASSED	[Signature]
DRAWN	P.G. Barnett	APPROVED	[Signature]
CHECKED	[Signature]		

I-2-B 9-1-65, 8-1-70



TWM, INC.
 WWW.TWM-INC.COM
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

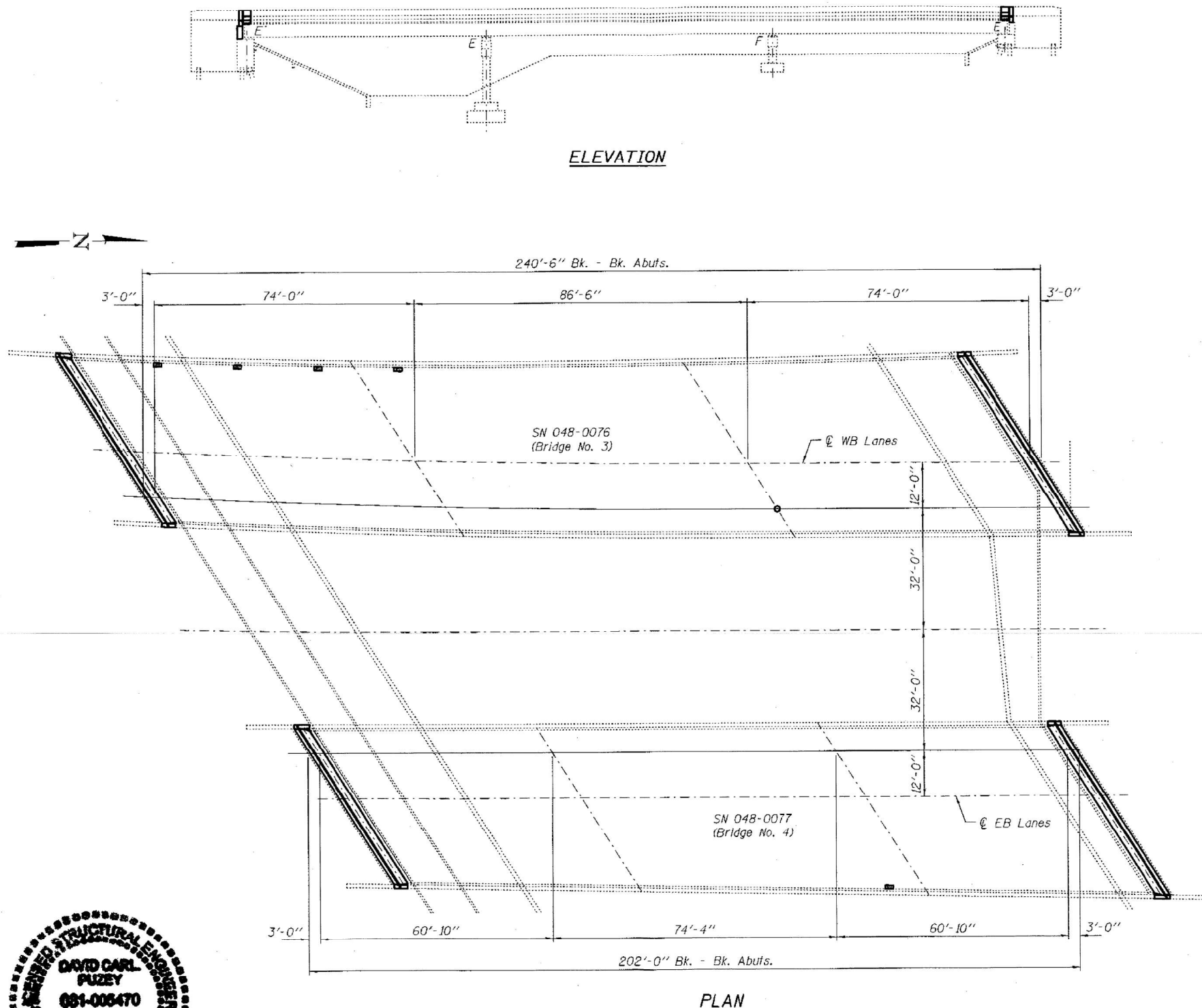
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2 & 3 - STRUCTURE INFORMATION
SN 048-0073 & SN 048-0074

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	53
			CONTRACT NO. 68K62	
			ILLINOIS FED. AID PROJECT	

**FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077**



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.
 Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
 Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Areas to be painted shall consist of all beam ends, end diaphragms, and steel components of bearings at the abutments. Beam end painting shall extend 5' from the ends of the beams longitudinally. Also included in the areas to be painted, the bottom beam flanges and 6" up the beam webs shall be painted out to 20' from the north ends of the beams at the north abutment. All areas to be painted shall be cleaned per near white blast cleaning per SSPC 10. All existing steel cleaned shall be painted according to the requirements of paint system 1 - OZ/E/U. The color of the final finish coat shall be green (Munsell 7.5G 4/8). The use of air monitors will be required.
 A minimum of two air monitors will be required to monitor abrasive blasting operations. The SSPC-QP1 and SSPC-QP2 painting contractor certifications will be required.
 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 the contractor's expense.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	29.4
Concrete Structures	Cu. Yd.	1.6
Concrete Superstructure	Cu. Yd.	28.4
Prefabricated Joint Strip Seal	Foot	215
Reinforcement Bars, Epoxy Coated	Pound	3110
* Protective Coat	Sq. Yd.	82.4
Floor Drains	Each	5
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	42.5
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	15.3
Elastomeric Bearing Assembly, Type I	Each	21
Elastomeric Bearing Assembly, Type II	Each	7
Jack and Remove Existing Bearings	Each	28
Anchor Bolts 1"φ	Each	60
Containment and Disposal of Lead Paint Cleaning Residues Bridge No. 3	L. Sum	1
Containment and Disposal of Lead Paint Cleaning Residues Bridge No. 4	L. Sum	1
Cleaning and Painting Steel Bridge No. 3	L. Sum	1
Cleaning and Painting Steel Bridge No. 4	L. Sum	1
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.1

* On new concrete



EXPIRES 11-30-2018

DESIGNED	<i>David Carl Puzey</i>	EXAMINED	<i>Timothy A. [Signature]</i>	DATE	JANUARY 17, 2018
CHECKED	<i>Stephan [Signature]</i>	PASSED	<i>David Carl Puzey</i>	REVISED	
DRAWN	<i>daburdell</i>			REVISED	
CHECKED	<i>ISB/ [Signature]</i>			REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND ELEVATION
F.A. RTE. 404 (US 34) OVER CEDAR CREEK
SN 048-0076 (WB) & SN 048-0077 (EB)
SHEET NO. 1 OF 18 SHEETS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	9416, 1795, 4817, 18195	Knox	118	90
CONTRACT NO. 68339				
ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	54
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 1 OF 15 SHEETS STA. TO STA.

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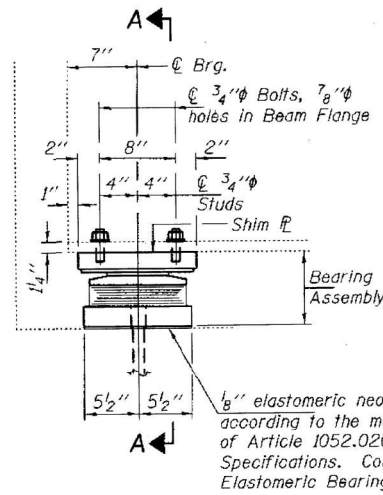


FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077

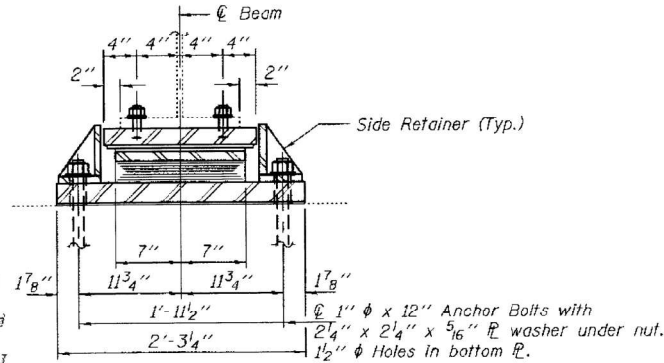
BEAM REACTIONS

RP	(K)	33.7
R _L	(K)	39.2
Imp.	(K)	9.7
R (Total)	(K)	82.6

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 = 45 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.
 Anchor bolts of fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.
 The 1/8" PTFE 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 MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
 Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

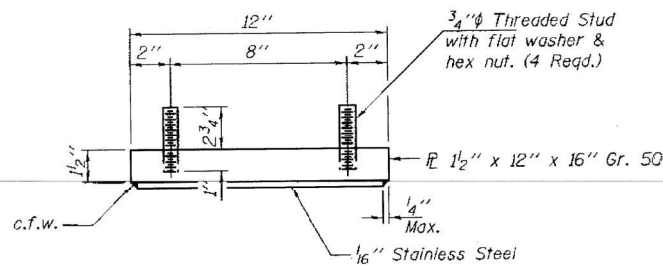


ELEVATION AT ABUTMENT

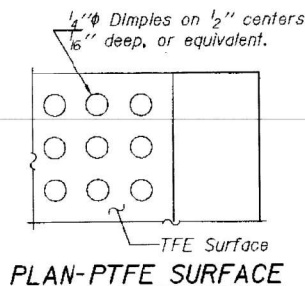


SECTION A-A

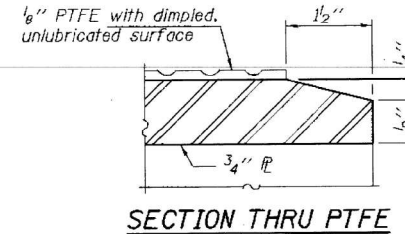
TYPE II TFE ELASTOMERIC EXP. BRG.



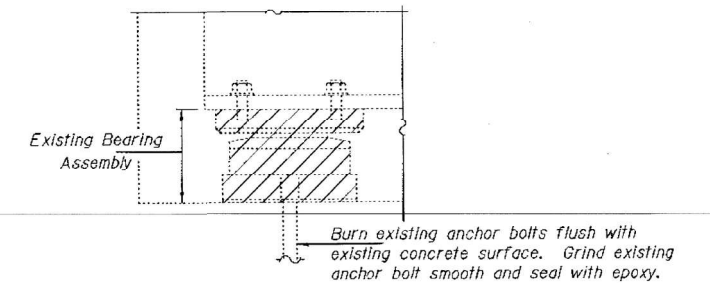
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

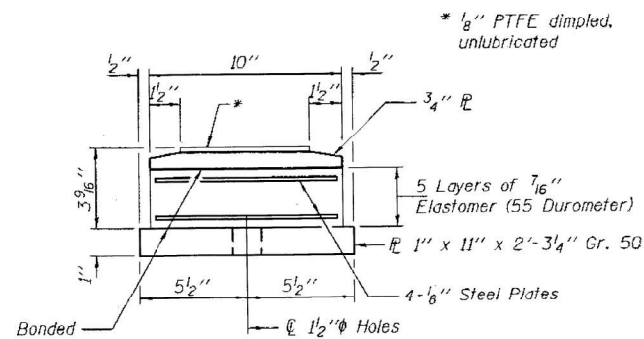


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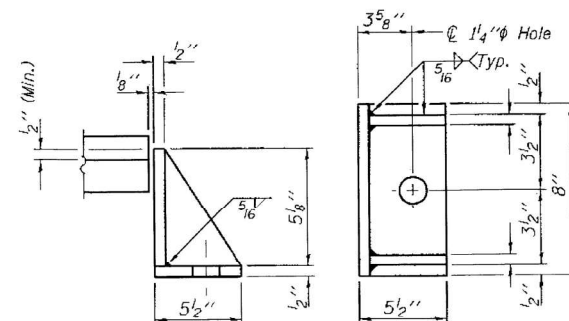


EXISTING BEARING REMOVAL DETAIL

Cost Included with Jack and Remove Existing Bearings.

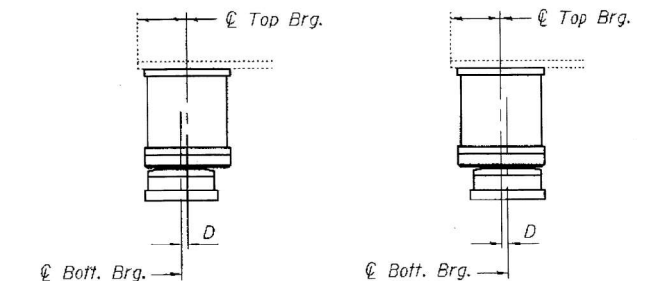


BOTTOM BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SETTING ANCHOR BOLTS AT EXP. BRG.
 D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	7
Jack and Remove Existing Bearings	Each	7
Anchor Bolts 1"φ	Each	14

DESIGNED JSB	EXAMINED <i>Timothy A. Smith</i>	DATE JANUARY 17, 2018
CHECKED SMR	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN daburdell	PASSED <i>Carl Perry</i>	REVISOR
CHECKED JSB / SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT BEARING REPLACEMENT DETAILS
SN 048-0076 (WB)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	94016, 17195, 48017, 18095	KNOX	118	97
CONTRACT NO. 68339				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	55
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 2 OF 15 SHEETS STA. TO STA.

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 DATE: 9/8/2025

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISOR -
PLLOT SCALE = 10.0000 / 1 in.	DRAWN - BCS	REVISOR -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISOR -
	DATE - SEPT 2025	REVISOR -

FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077

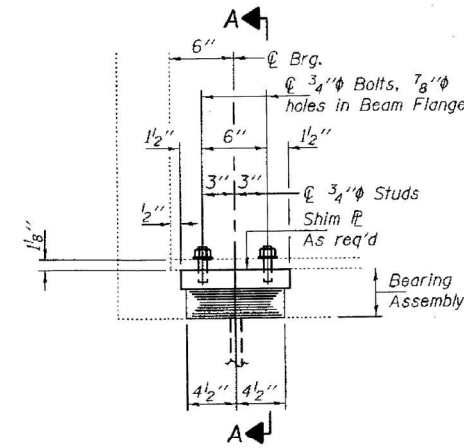
BEAM REACTIONS - 0077

R _ℓ	(K)	26.45
R _r	(K)	37.82
Imp.	(K)	10.08
R (Total)	(K)	73.85

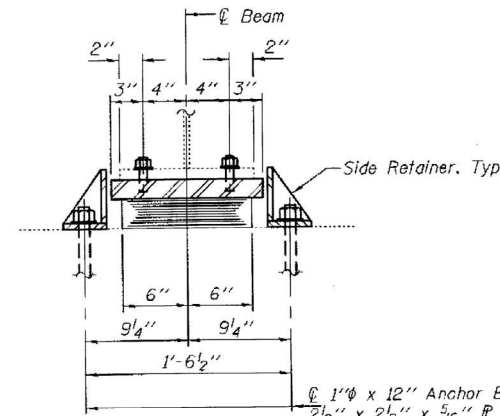
BEAM REACTIONS - 0076

R _ℓ	(K)	32.58
R _r	(K)	39.00
Imp.	(K)	9.79
R (Total)	(K)	81.37

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 = .45 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.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 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.
 New bearing plates, steel extensions, shim plates, side retainers, anchor bolts, connection bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable.

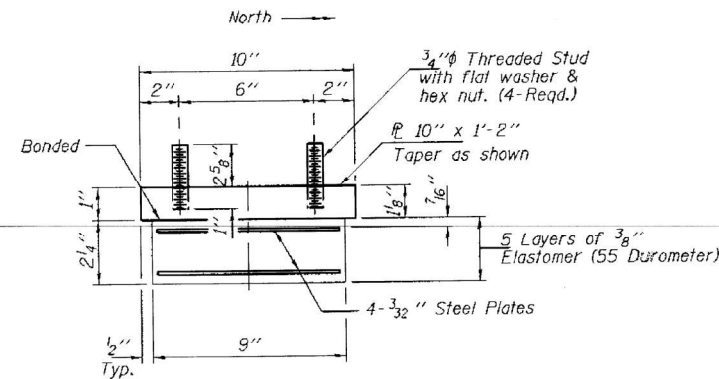


ELEVATION AT ABUTMENT



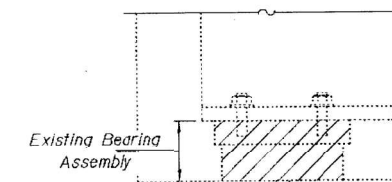
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



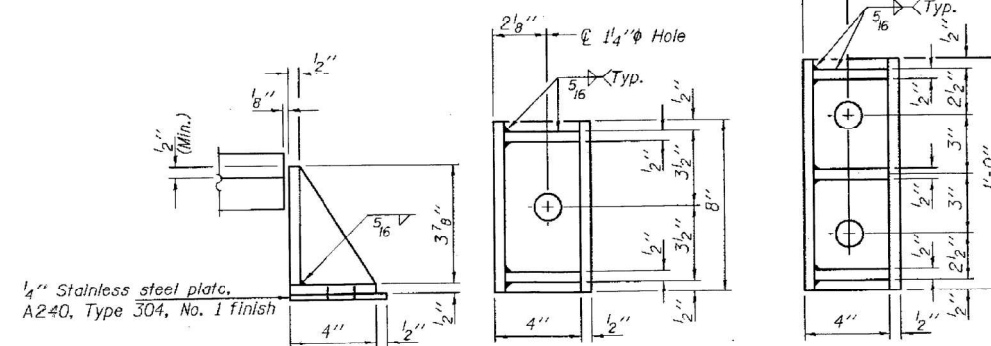
BEARING ASSEMBLY

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



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	14
Jack and Remove Existing Bearings	Each	14
Anchor Bolts 1" ℓ	Each	32

TYI/REPS 1-18-2017

DESIGNED JSB	EXAMINED <i>Timothy A. Daulton</i>	DATE JANUARY 17, 2018
CHECKED SMR	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN dahndell	PASSED <i>Carl Berger</i>	REVISED
CHECKED JSB / SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT BEARING REPLACEMENT DETAILS
SN 048-0076 (WB) & 0077 (EB)

F.A. RTE. 313	SECTION 9416, 17RS, 4807, 1BRS	COUNTY KNOX	TOTAL SHEETS 118	SHEET NO. 98
ILLINOIS FED. AID PROJECT				CONTRACT NO. 68339

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

F.A. RTE. VAR	SECTION D4 BRIDGE PAINTING 2026	COUNTY VAR	TOTAL SHEETS 136	SHEET NO. 56
ILLINOIS FED. AID PROJECT				CONTRACT NO. 68K62

SCALE: N/A SHEET 3 OF 15 SHEETS STA. TO STA.

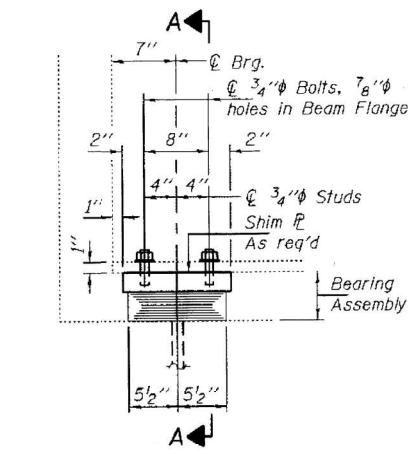
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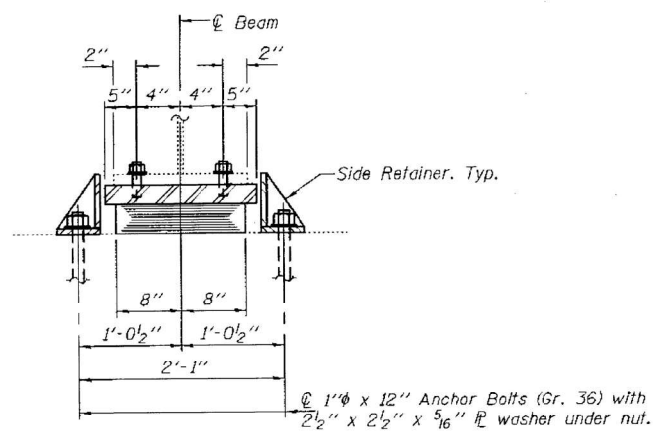
TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -
PLOT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077

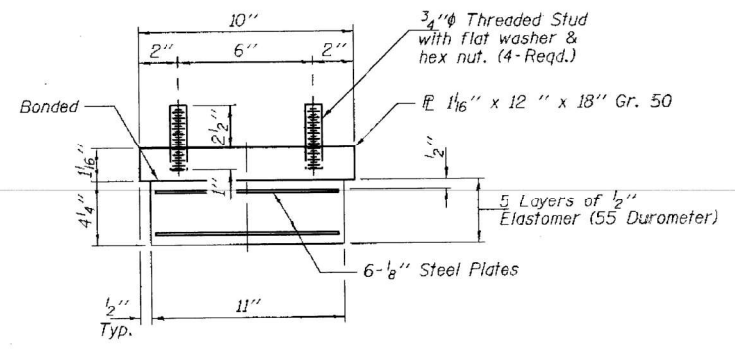


ELEVATION AT ABUTMENT



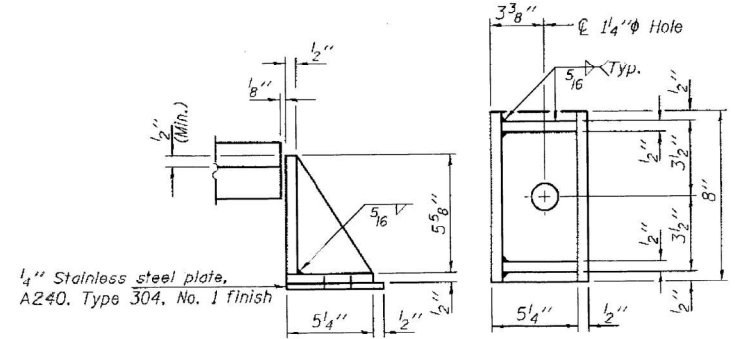
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

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



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BEAM REACTIONS

R _P	(K)	26.5
R _L	(K)	37.3
Imp.	(K)	10.0
R (Total)	(K)	73.8

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 = 45 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.
 Anchor bolts of fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 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.
 See sheet 8 of 18 for Existing Bearing Removal Detail.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	7
Jack and Remove Existing Bearings	Each	7
Anchor Bolts 1"Ø	Each	14

TYI/REPS 1-18-2017

DESIGNED <i>JSB</i>	EXAMINED <i>Timothy A. Smith</i>	DATE JANUARY 17, 2018
CHECKED <i>SMR</i>	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN <i>daburdell</i>	PASSED <i>Carl Kopp</i>	REVISOR
CHECKED <i>JSB / SMR</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT BEARING REPLACEMENT DETAILS
SN 048-0077 (EB)
 SHEET NO. 10 OF 18 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	94016, 171RS, 48117, 181RS	KNOX	118	89
CONTRACT NO. 68339				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	57
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 4 OF 15 SHEETS STA. TO STA.

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TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

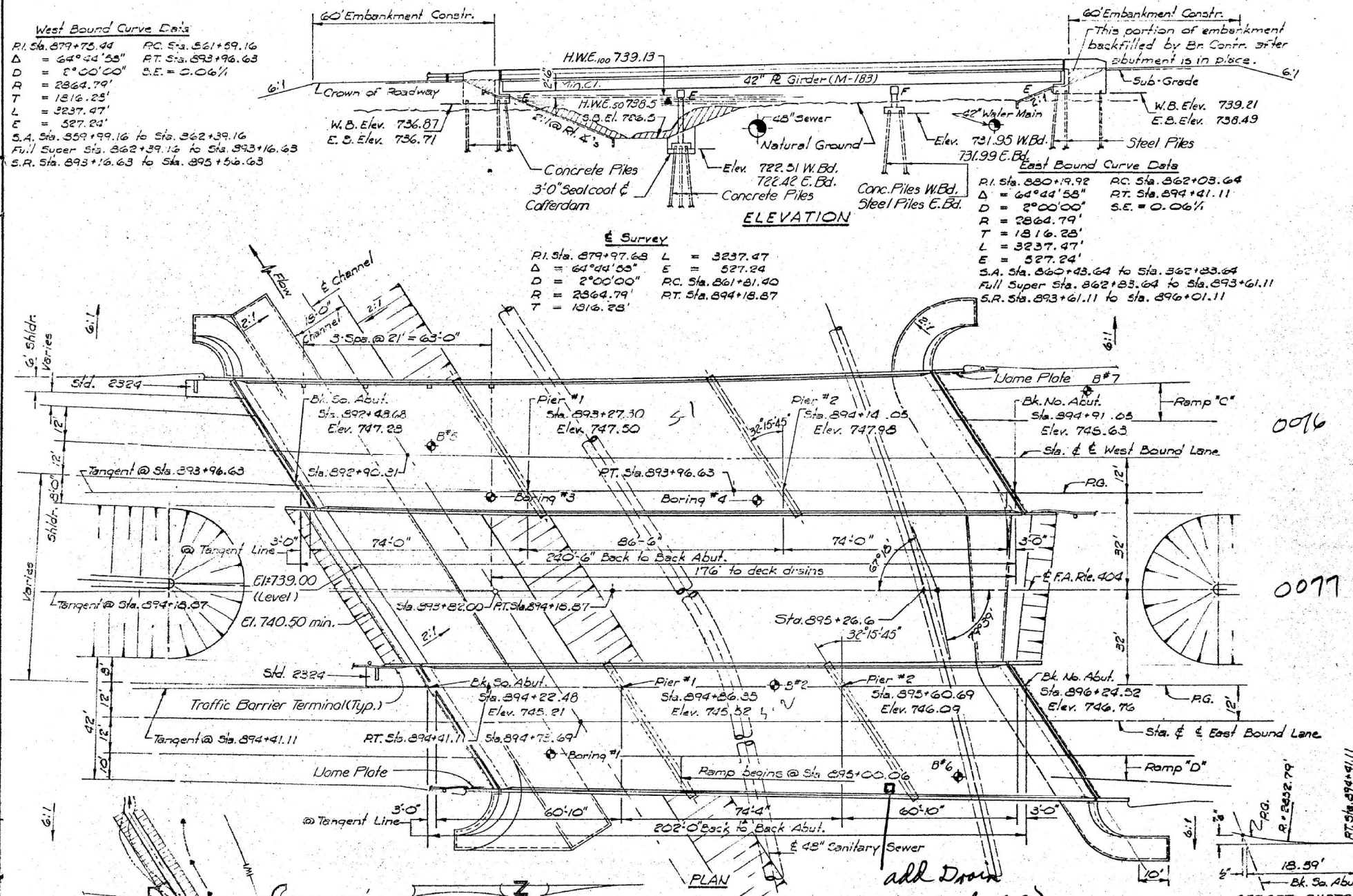
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / 27 SHEETS
48-004	17B-3	KNOX	43	9	

D.M. Chiseled "D" in North concrete wingwall of Bridge
 Approx. 1/4 mile south of US. Rte. #34 on cemetery road.
 E. 743.94

West Bound Curve Data
 P.I. Sta. 879+73.44 PC Sta. 821+59.16
 Δ = 64°44'55" RT Sta. 893+96.63
 D = 2°00'00" S.E. = 0.061/
 R = 2864.79'
 T = 1316.23'
 L = 3237.47'
 E = 527.24'
 S.A. Sta. 859+99.16 to Sta. 862+39.16
 Full Super Sta. 862+39.16 to Sta. 893+16.63
 S.R. Sta. 893+16.63 to Sta. 895+56.63

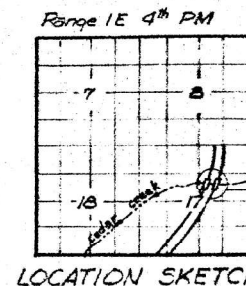
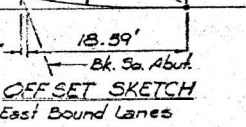
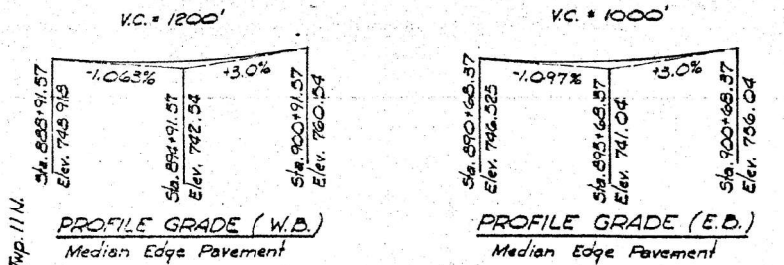
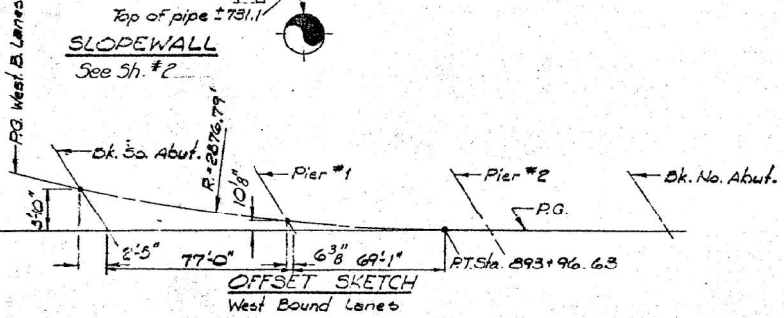
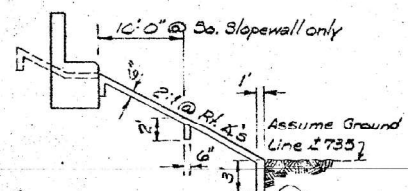
East Bound Curve Data
 P.I. Sta. 880+19.92 PC Sta. 862+03.64
 Δ = 64°44'55" RT Sta. 894+41.11
 D = 2°00'00" S.E. = 0.061/
 R = 2864.79'
 T = 1316.23'
 L = 3237.47'
 E = 527.24'
 S.A. Sta. 860+43.64 to Sta. 862+23.64
 Full Super Sta. 862+23.64 to Sta. 893+61.11
 S.R. Sta. 893+61.11 to Sta. 896+01.11

Survey
 P.I. Sta. 879+97.68 L = 3237.47
 Δ = 64°44'55" E = 527.24
 D = 2°00'00" RC Sta. 861+81.40
 R = 2864.79' RT Sta. 894+18.87
 T = 1316.23'



STATION 893+82.00
 BUILT 19 BY
 STATE OF ILLINOIS
 F.A. RT. 404 SEC. 48-173-3
 F.A. PROJ. EB F-404(1/3)
 LOADING HS 20
 * STR. NO.

NAME PLATE
 (See Std. 2113)
 * Str. No. 048-0076 West Bd. Lane
 048-0077 East Bd. Lane



add Drain
 (See sh. 20)

DESIGN STRESSES
 f_c = 3,500 psi
 f_y = 60,000 psi (Reinf.)
 f_s = 20,000 psi (Struct.)
 ** Top layer of reinforcement in deck shall be epoxy coated.

LOADING HS 20-44
 Allow 25[#]/sq.ft. for future wearing surface. Design Specification, 1973
 AASHTO, 1974, 1975, 1976 and 1977
 Interim Specifications.

CHANNEL CHANGE SKETCH

DESIGNED	Max Z	1978
CHECKED	Shank Meyer	
DRAWN		
CHECKED		

WATERWAY INFORMATION

Drainage Area	=	10.64	sq.mi
Existing Opening	=	474.0	sq.ft.
Required Opening	=	594.0	sq.ft.
Proposed Opening	=	594.0	sq.ft.
Q ₅₀	=	1263	c.f.s.
Created Head 50	=	0.70	
H.W. Elev. 50	=	735.50	Elev.
Q ₁₀₀	=	2235	c.f.s.
Created Head 100	=	0.76	
H.W. Elev. 100	=	739.13	Elev.

MODEL: D:\dwg\11... DWG: 11... TWP: CAD... SHEET: 048-0076-09



TWM, INC.
 www.twm-inc.com
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME	=	bstambaugh
DESIGNED	-	BCS
DRAWN	-	BCS
CHECKED	-	TBP
DATE	-	SEPT 2025

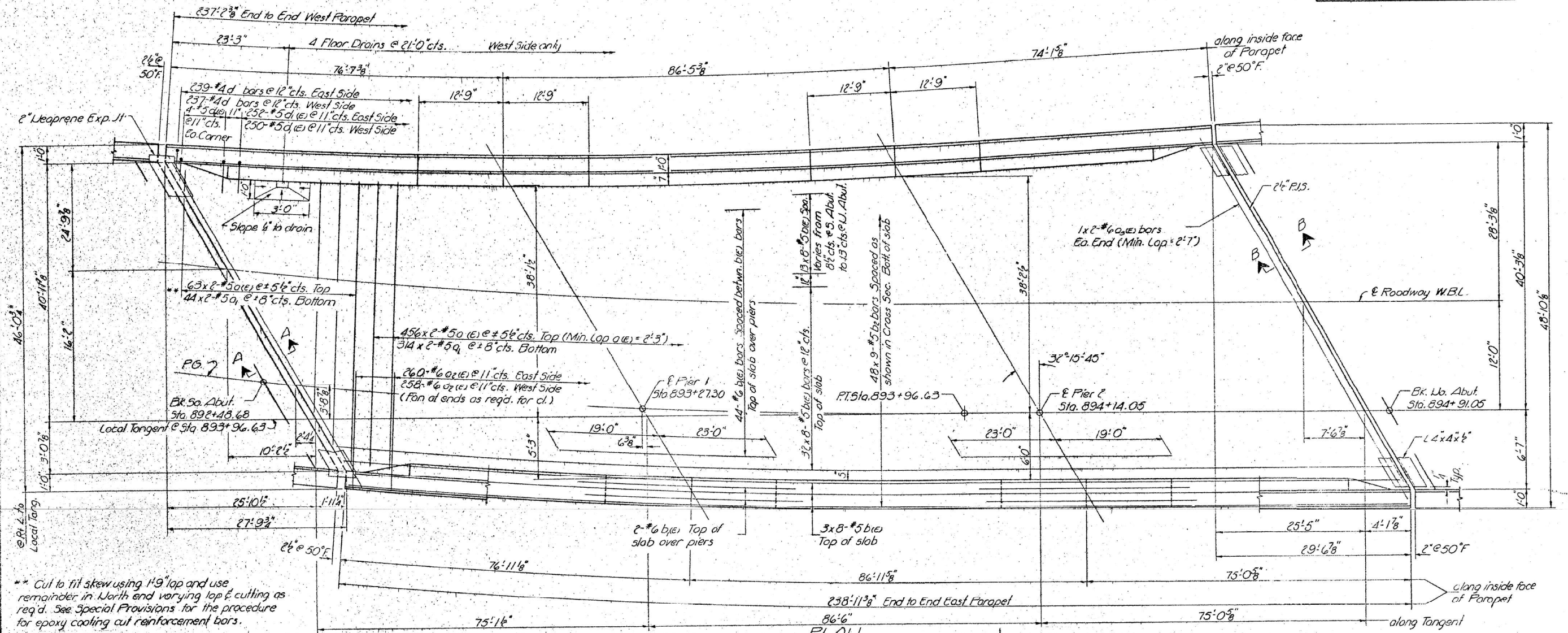
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	58
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

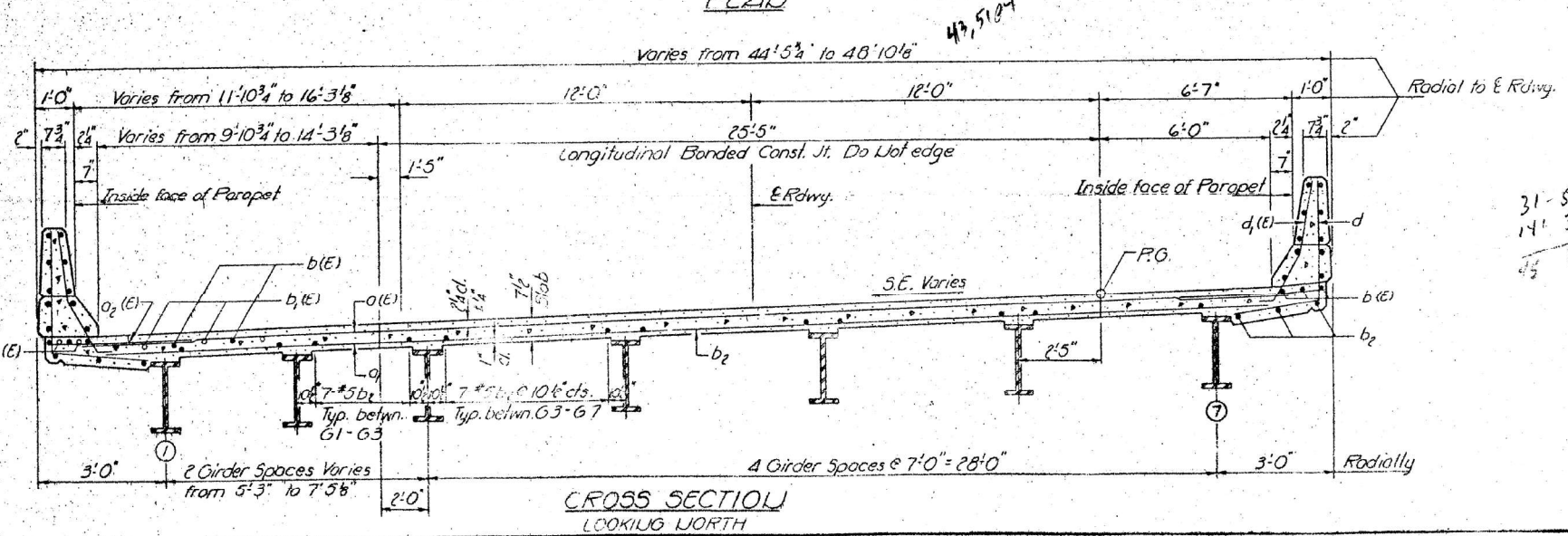
FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 27 SHEETS
404	17B-3	Knox	43	14	
<small>PER. ROAD DIST. NO. 7 BALANCE PER. AID PROJECT</small>					



** Cut to fit skew using 1'9\"/>

Note:
 Min. bar laps for #5 bar = 1'9\"/>



**WEST BOUND LANES
 SUPERSTRUCTURE
 FA. RT. 404 SEC. 4B-17B-3
 KNOX COUNTY
 STA. 893+82.00**

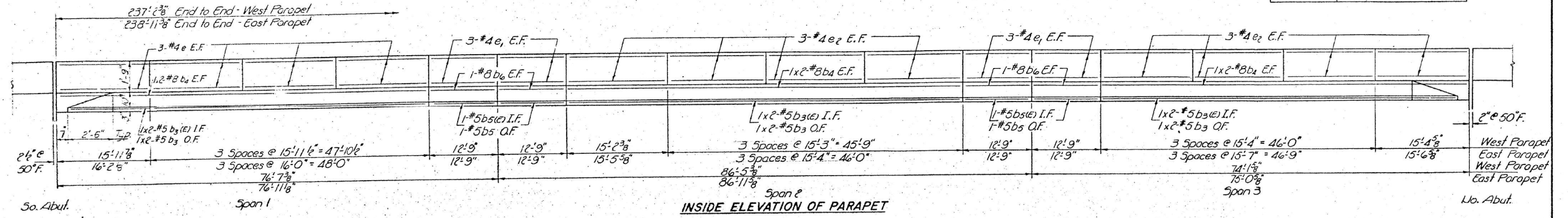
DESIGNED <i>J.D. Edwards</i>	EXAMINED <i>Mark Hummer</i>
CHECKED <i>Steve Meyer</i>	PASSED
DRAWN <i>J.D.</i>	APPROVED
CHECKED <i>W.E. Allen</i>	

	USER NAME = bstambaugh	DESIGNED - BCS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4 & 5 - STRUCTURE INFORMATION SN 048-0076 & SN 048-0077			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -		SCALE: N/A	SHEET 6	OF 15 SHEETS	STA.	TO STA.	VAR	D4 BRIDGE PAINTING 2026	VAR
ILL. DESIGN FIRM LICENSE NO: 184-001220	DATE - SEPT 2025	REVISED -							ILLINOIS FED. AID PROJECT			

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FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
48-3	17B-3	KNOX	43	15	27 SHEETS

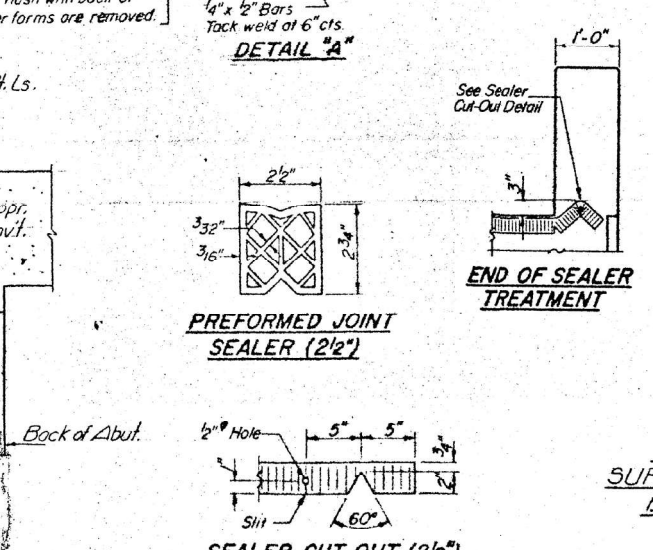
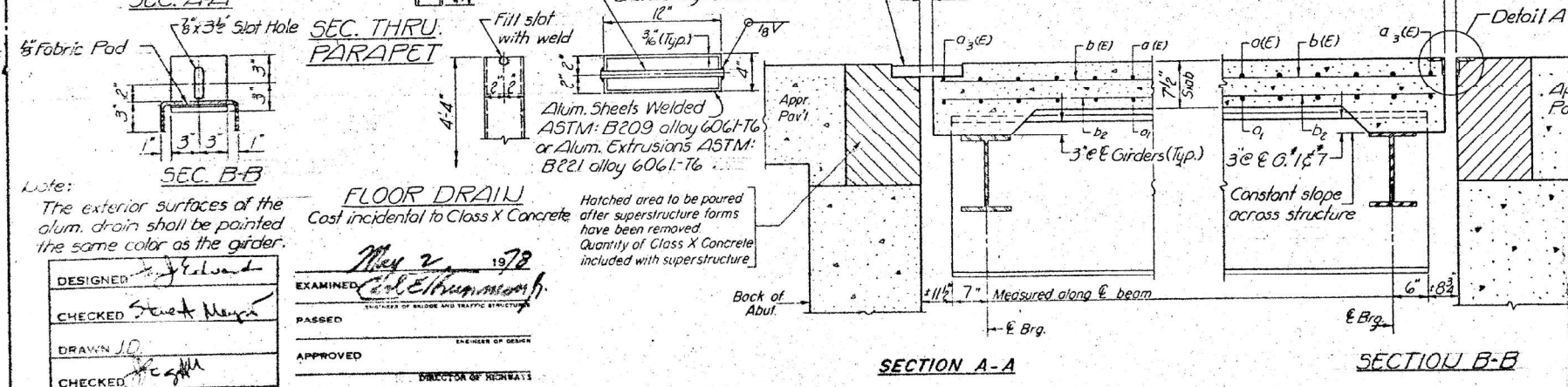
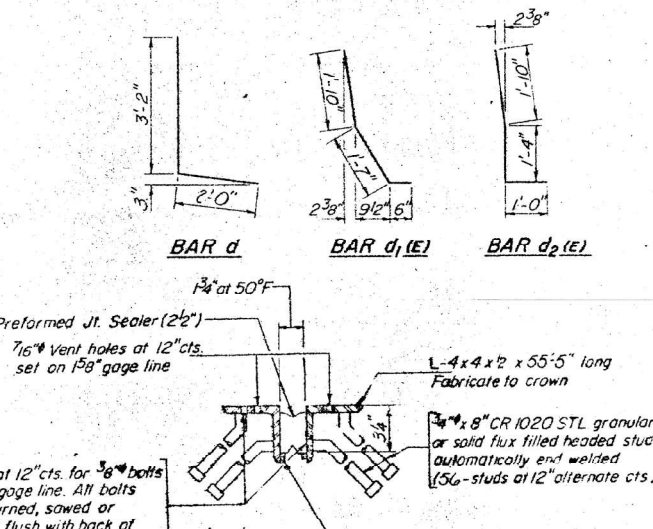
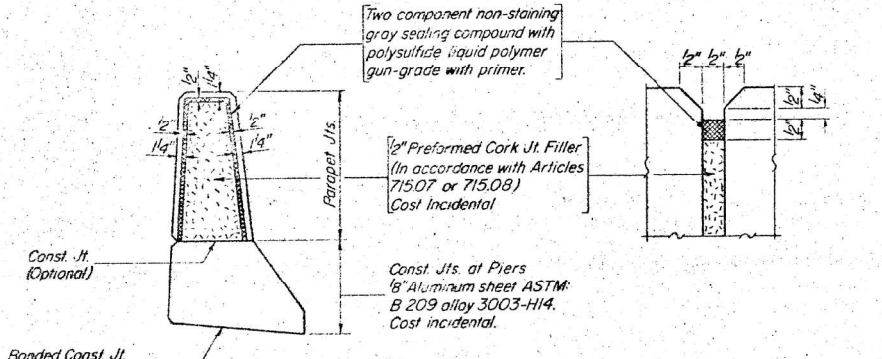
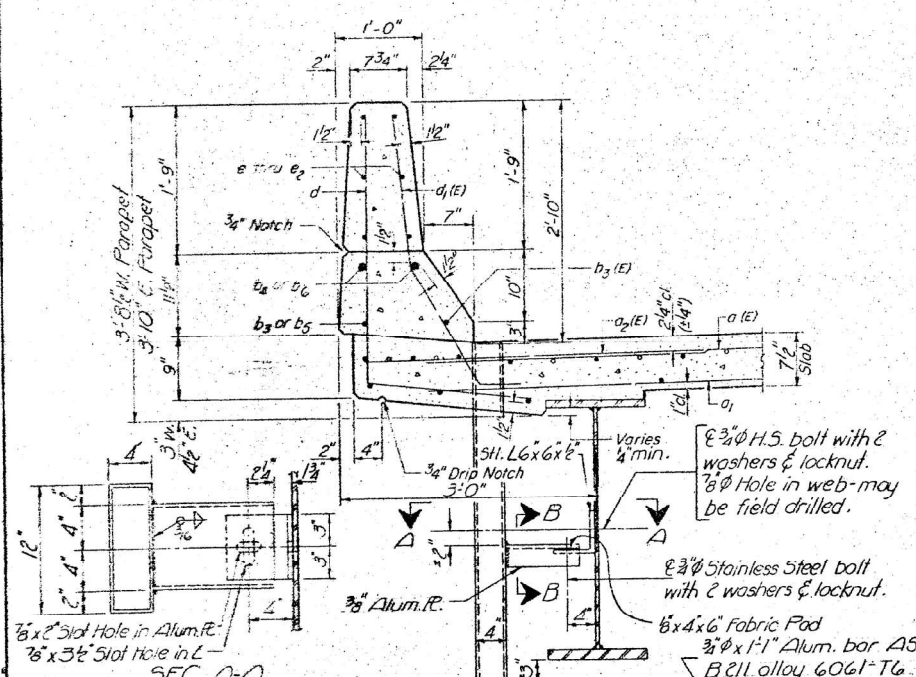


MIN. LAP
 #5 bar = 1'-9"
 #8 bar = 2'-9"

Note:
 The designation 60x2-#5 indicates 60 lines of bars with 2 lengths per line.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1038	#5	24'-3"	
a1	716	#5	24'-3"	
a2(E)	518	#6	4'-0"	
a3(E)	4	#6	29'-0"	
b(E)	408	#5	31'-6"	
b1(E)	96	#6	42'-0"	
b2	432	#5	28'-3"	
b3(E)	12	#5	33'-0"	
b4	24	#8	33'-6"	
b5(E)	8	#5	12'-6"	
b6	8	#5	12'-6"	
b7	16	#8	12'-6"	
d	476	#4	5'-2"	L
d1(E)	502	#5	3'-11"	L
d2(E)	16	#5	4'-2"	L
e	48	#4	15'-8"	
e1	48	#4	12'-6"	
e2	96	#4	15'-0"	
Reinforcement Bars				Lbs. 37550
Reinforcement Bars (Epoxy Coated)				Lbs. 51640
Class X Concrete				Cu Yds. 329.0



FLOOR DRAIN
 Cost incidental to Class X Concrete

Note:
 The exterior surfaces of the alum. drain shall be painted the same color as the girder.

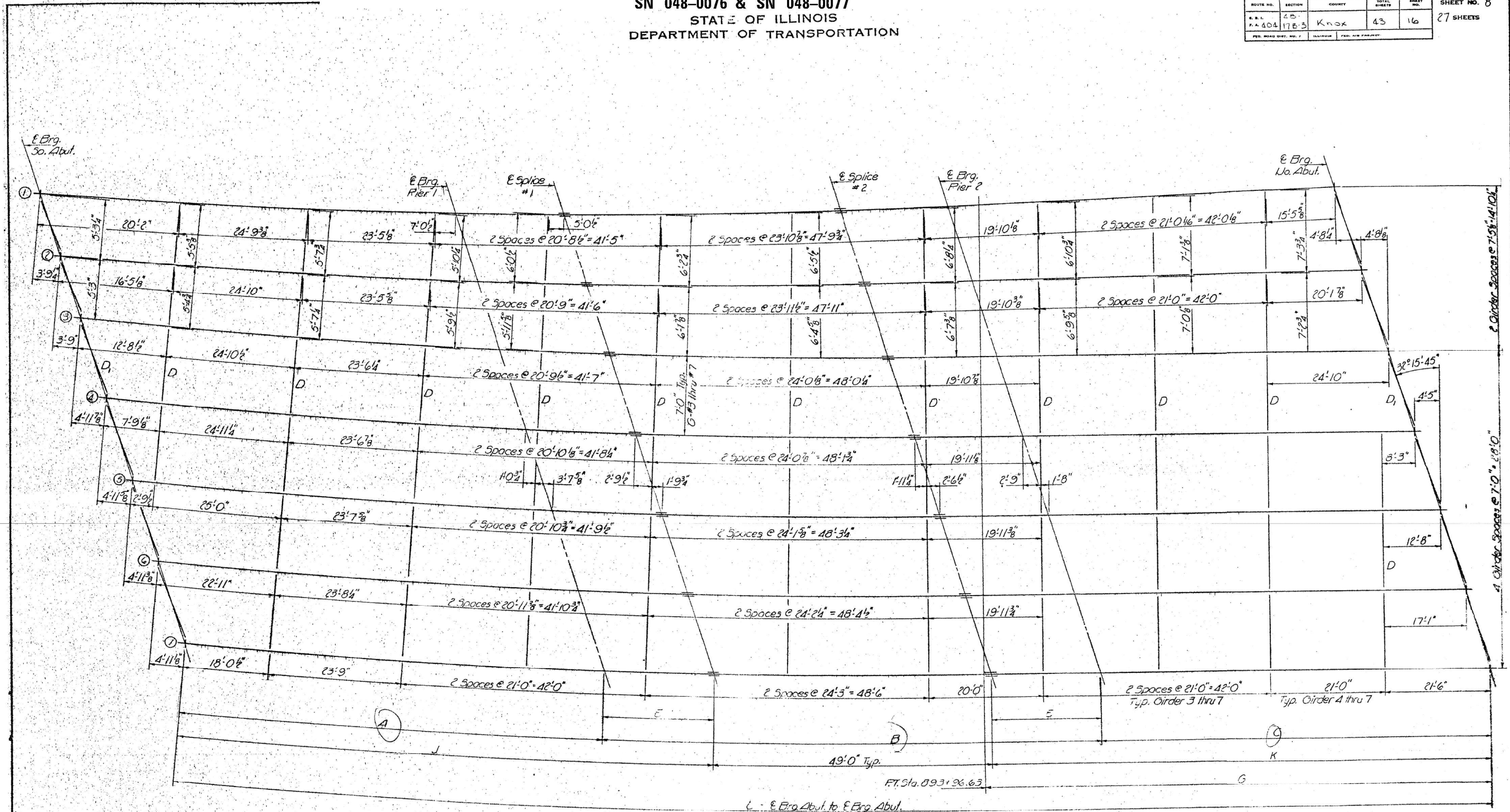
DESIGNED: [Signature]
 CHECKED: [Signature]
 DRAWN: J.D.
 CHECKED: [Signature]

EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]

WEST BOUND LANES SUPERSTRUCTURE DETAILS
 F.A. RT. 404 SEC. 48-17B-3
 KNOX COUNTY
 STA. 893+82.00

FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
404	17B-3	Knox	43	16
SHEET NO. 8				
27 SHEETS				



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

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

FRAMING PLAN

(All interior diaphragms are radial to E Roadway)

WEST BOUND LANES
STRUCTURAL STEEL
 E2, RT. 404 SEC. 18-17B-3
 KNOX COUNTY
 STA. 893+82.00



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh
 DESIGNED - BCS
 DRAWN - BCS
 CHECKED - TBP
 DATE - SEPT 2025

REVISD -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

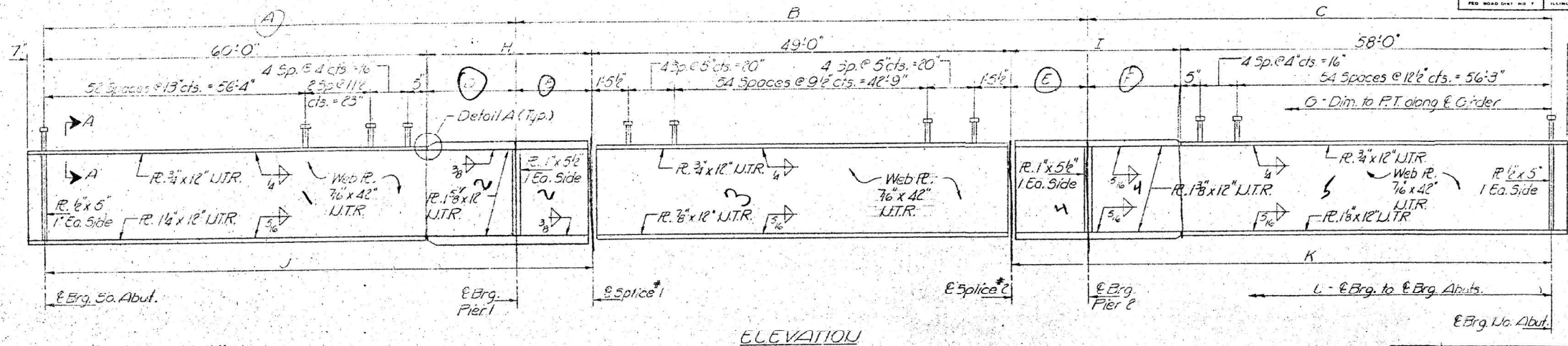
SCALE: N/A SHEET 8 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	61
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

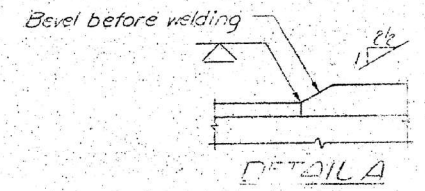
FOR INFORMATION ONLY
 LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
 SN 048-0076 & SN 048-0077

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
48-178-3	48-178-3	KNOX	43	17
24 SHEETS				

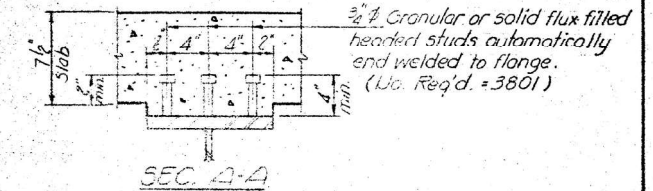


ELEVATION



DETAIL A

Note:
 U.T.R. indicates Notch Toughness Requirement Zone 2,
 See General Notes Sh.#1.



SEC. A-A

TOP OF WEB ELEVATIONS

Gra	E. Brg. S. Abut.	E. Brg. Pier 1	E. Splice #1	E. Splice #2	E. Brg. Pier 2	E. Brg. N. Abut.
1	744.49	744.46	744.45	745.12	745.42	746.53
2	744.61	744.65	744.86	745.51	745.80	746.92
3	745.13	745.31	745.23	745.59	746.17	747.55
4	745.55	745.65	745.65	746.27	746.93	747.93
5	745.98	746.10	746.13	746.62	746.85	747.71
6	746.41	746.53	746.56	746.91	747.10	747.84
7	746.84	746.95	746.98	747.18	747.33	747.90

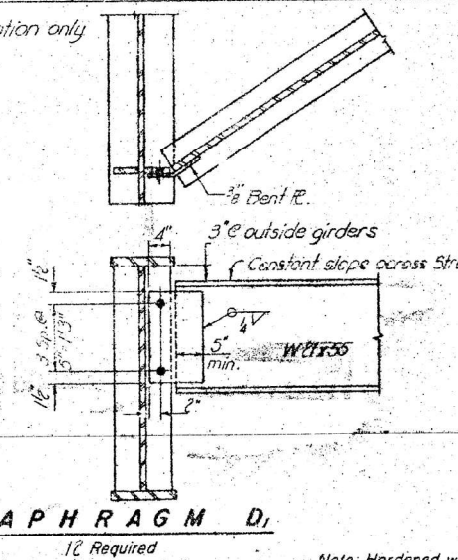
** For fabrication only

INTERIOR GIRDER MOMENT TABLE

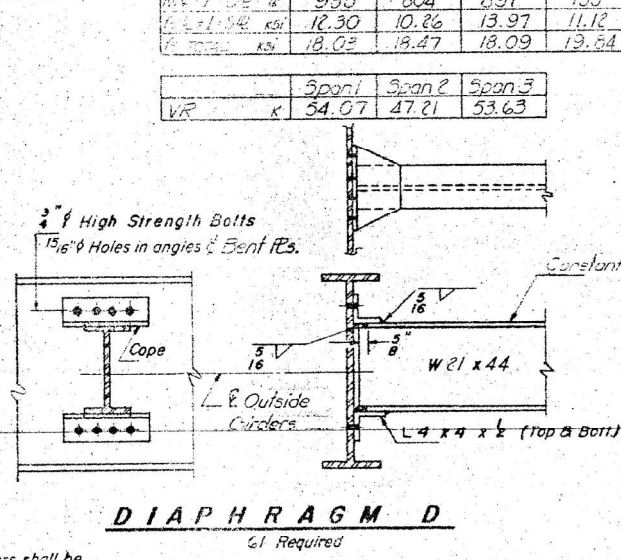
	4 Sp. 1	Pier 1	5 Sp. 2	Pier 2	6 Sp. 3
Ic	13422	21666	11615	18231	16536
Ic	35640	28261	28261	33529	33529
Sc	701.4	940	552.6	814.8	652.3
Sc	961.2	765.1	765.1	829	829
M/E	.837	.898	.818	.873	.829
M/E	335	643	190	592	315
M/E	5.73	8.21	4.12	8.72	5.79
M/E	.320	.320	.320	.320	.320
M/E	146	197	116	194	153
M/E	161	485	625	497	651
M/E	168	182	150	114	162
M/E	93.9	804	891	755	932
M/E	12.30	10.26	13.97	11.12	12.75
M/E	18.02	19.47	18.09	19.54	18.54

A thru L E RADIUS DIMENSIONS

Gra	A	B	C	D	E	F	G	H	I	J	K	L	R. TO G
1	74.95	86.5	73.16	15.5	18.82	15.16	67.23	34.16	33.95	94.12	91.95	234.11	86.39
2	75.94	86.10	73.66	1.94	18.11	15.62	71.11	34.83	34.59	94.23	92.58	234.2	86.39
3	76.75	87.33	74.0	16.13	19.13	16.0	76.75	35.36	35.17	94.23	93.18	234.2	86.39
4	76.03	87.23	74.0	16.03	19.13	16.0	81.03	35.2	35.17	94.23	93.18	234.2	86.39
5	75.11	87.13	74.0	15.11	19.10	16.0	85.53	35.03	35.0	95.03	93.03	234.11	86.39
6	75.10	87.03	74.0	15.10	19.03	16.0	89.10	34.10	35.03	94.03	93.03	234.11	86.39
7	75.94	87.0	74.0	15.94	19.0	16.0	93.53	34.94	35.0	94.94	93.0	234.94	86.39

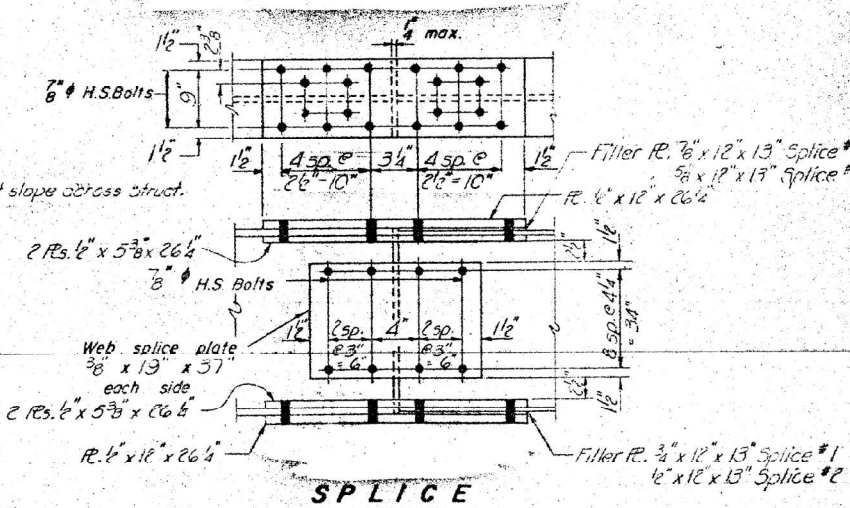


DIAPHRAGM D1
 1/2 Required



DIAPHRAGM D
 1/2 Required

Note: Hardened washers shall be required over 1/16 inch holes in angles of Bent R's.



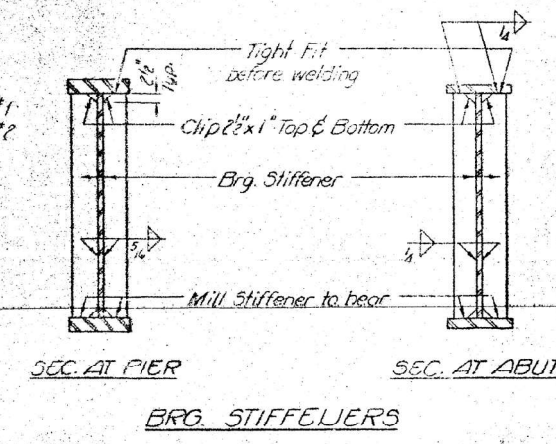
SPLICE

All plates U.T.R. except filler R.
 All holes = 1/16 inch for 1/2 inch H.S. bolts.

INTERIOR GIRDER REACTION TABLE

	S. Abut.	Pier 1	Pier 2	N. Abut.
R/E	33.71	107.76	121.02	32.58
R/E	39.18	55.21	54.33	39.00
R/Imp	9.76	13.36	13.00	9.79
R/Max	82.65	176.32	171.23	61.57

Ic and Sc are the moment of inertia and section modulus of the steel section.
 Ic and Sc are the moment of inertia and section modulus of the composite section.
 VR is the maximum V + Impact shear range in span used to determine
 shear connector spacing



BRG. STIFFENERS

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

TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES

USER NAME	= bstambaugh
DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025
REVISED	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE	N/A
SHEET	9 OF 15 SHEETS
STA.	
TO STA.	

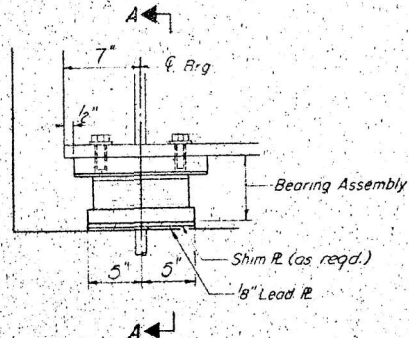
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	62
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

WEST BOUND LANES
 STRUCTURAL STEEL DETAILS
 I-2-D 4-15-23
 STA. 893+82.00

FOR INFORMATION ONLY
 LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
 SN 048-0076 & SN 048-0077

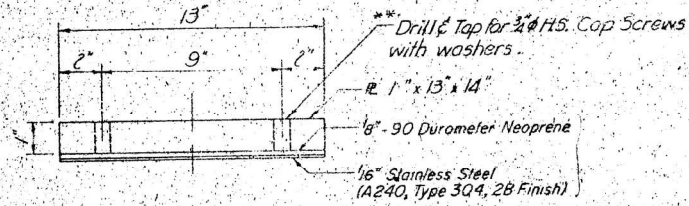
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 27 SHEETS
48	17B-3	Knox	43	18	

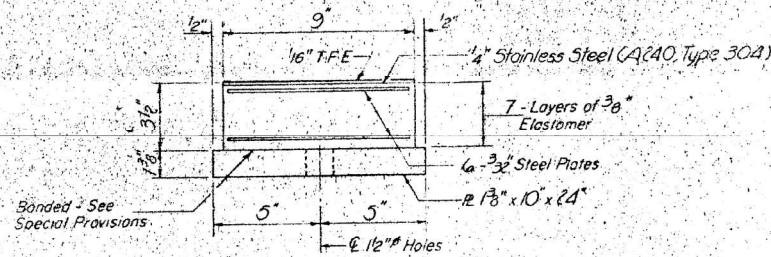


SECTION AT SO. ABUT.

TYPE II TFE ELASTOMERIC EXP. BRG.

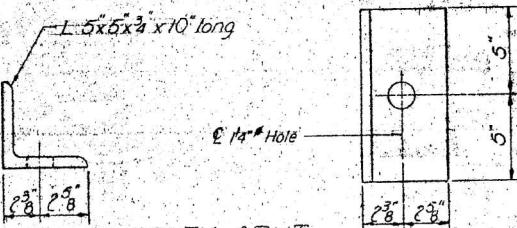


TOP BEARING ASSEMBLY

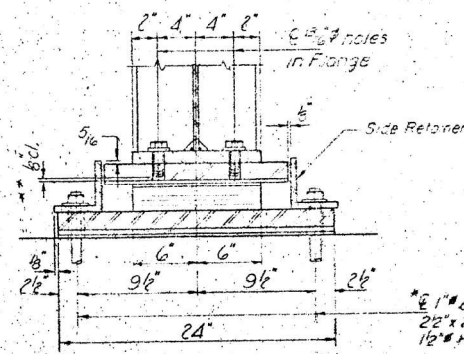


BOTTOM BEARING ASSEMBLY

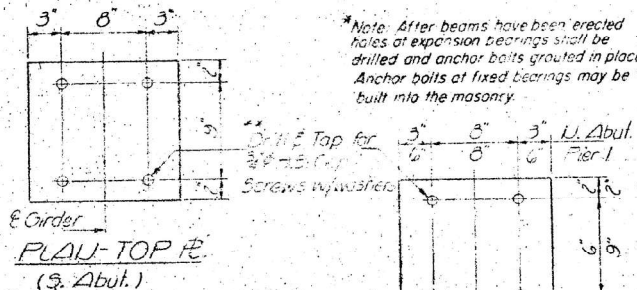
Note:
 The 1/2" TFE sheet shall be bonded directly to the top steel laminate sheet with a two-component medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.



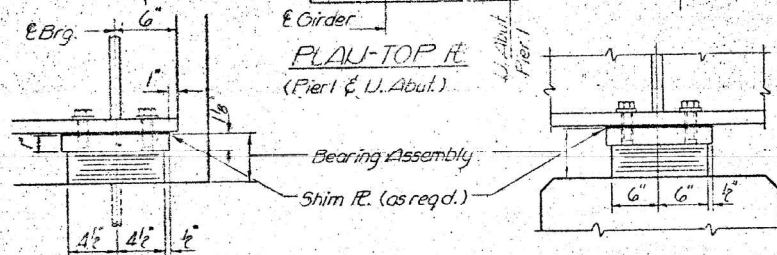
SOUTH ABUT.
 SIDE RETAINER
 (14 Req'd.)



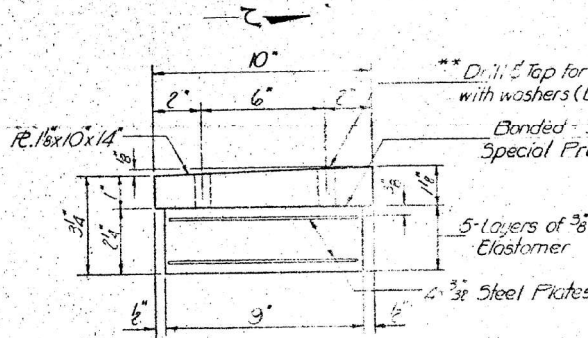
SECTION A-A



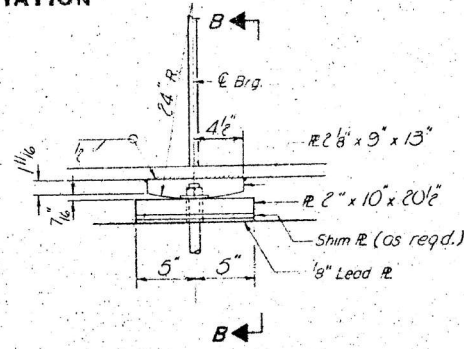
PLAN - TOP IR
 (S. ABUT.)



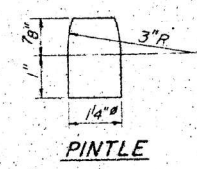
SECTION AT UO. ABUT.



BEARING ASSEMBLY
 UO. ABUT.



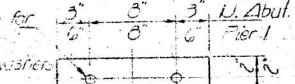
ELEVATION AT PIER 2



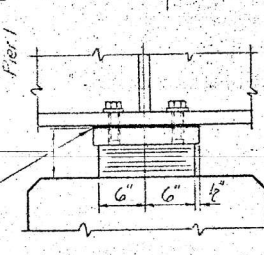
PINTLE

** Cap Screws shall not contact elastomer when tightened

Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.

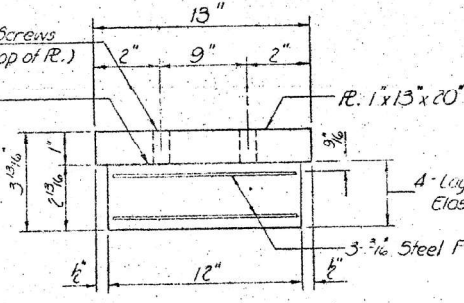


PLAN - TOP IR
 (PIER & U. ABUT.)

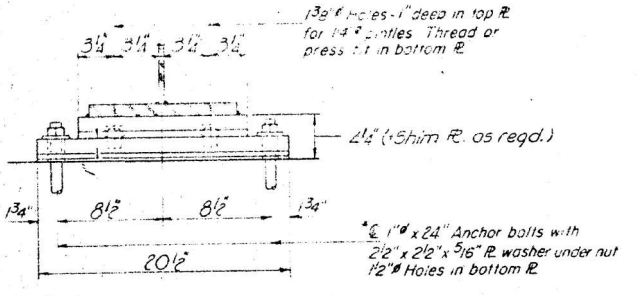


SECTION AT PIER 1

TYPE I ELASTOMERIC EXP. BRG.

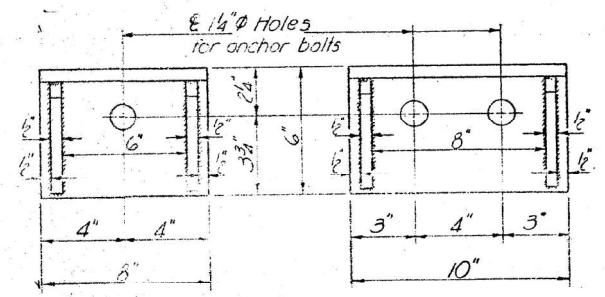


BEARING ASSEMBLY
 PIER 1



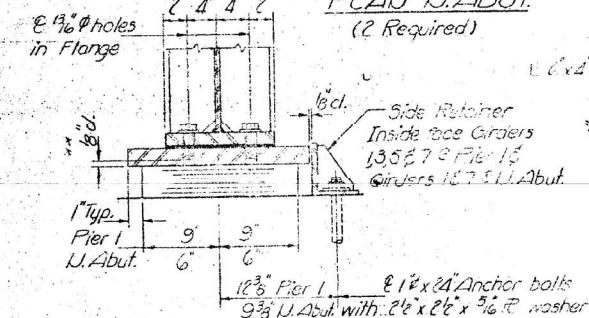
SECTION B-B

FIXED BEARING

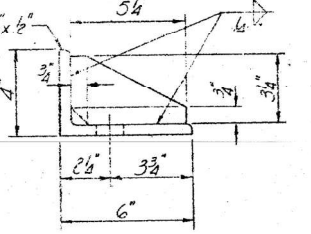


PLAN - U. ABUT.
 (2 Required)

PLAN - PIER 1
 (4 Required)



SECTION C-C



TYP. END VIEW

PIER & UO. ABUT.
 SIDE RETAINER

Notes:
 Elastomeric Bearing Assemblies shall be cast incidental to Structural Steel. Cap Screws with washers are cast incidental to Structural Steel.

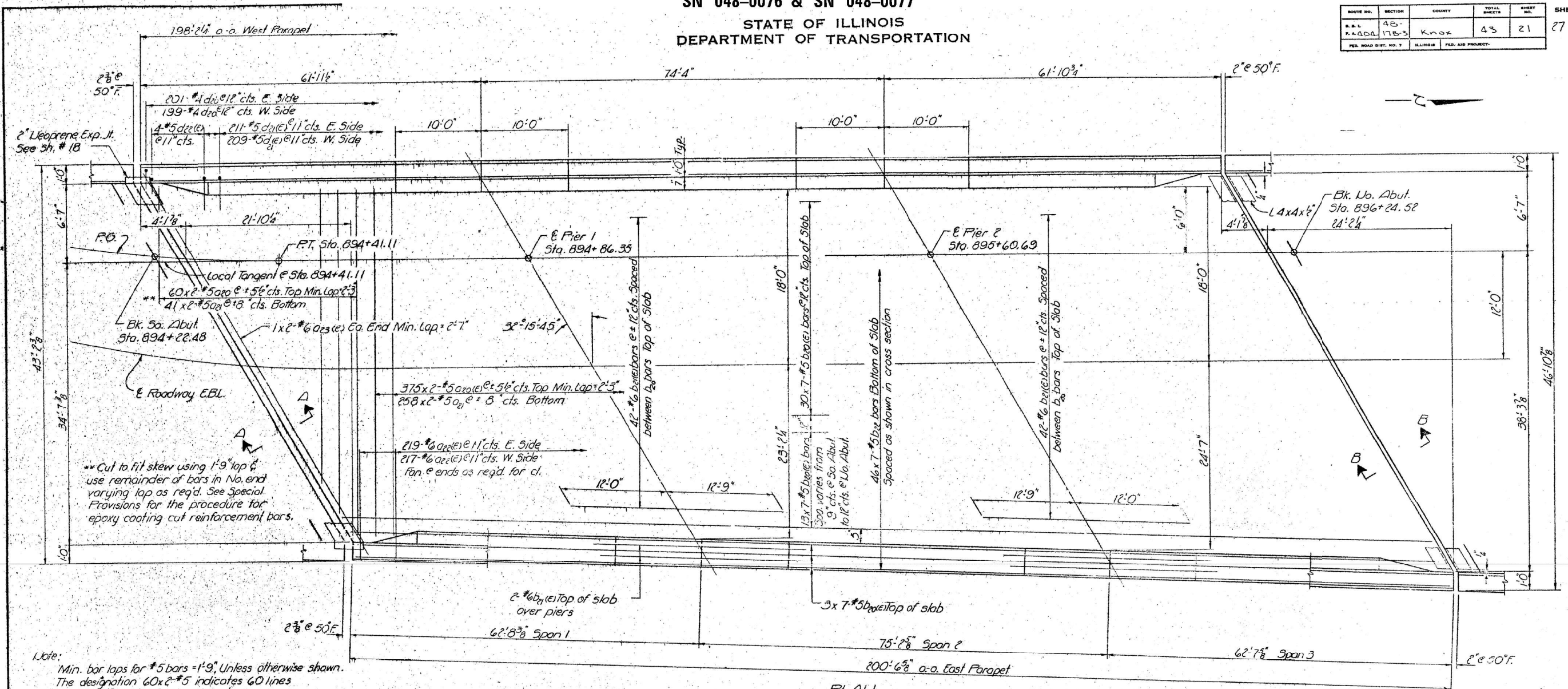
DESIGNED	EXAMINED	DATE
CHECKED	PASSED	1978
DRAWN	APPROVED	
CHECKED		

WEST BOUND LANES
 BEARING DETAILS
 FA. RT. 404 SEC. 48-17B-3
 KNOX COUNTY
 STA. 393+32.00

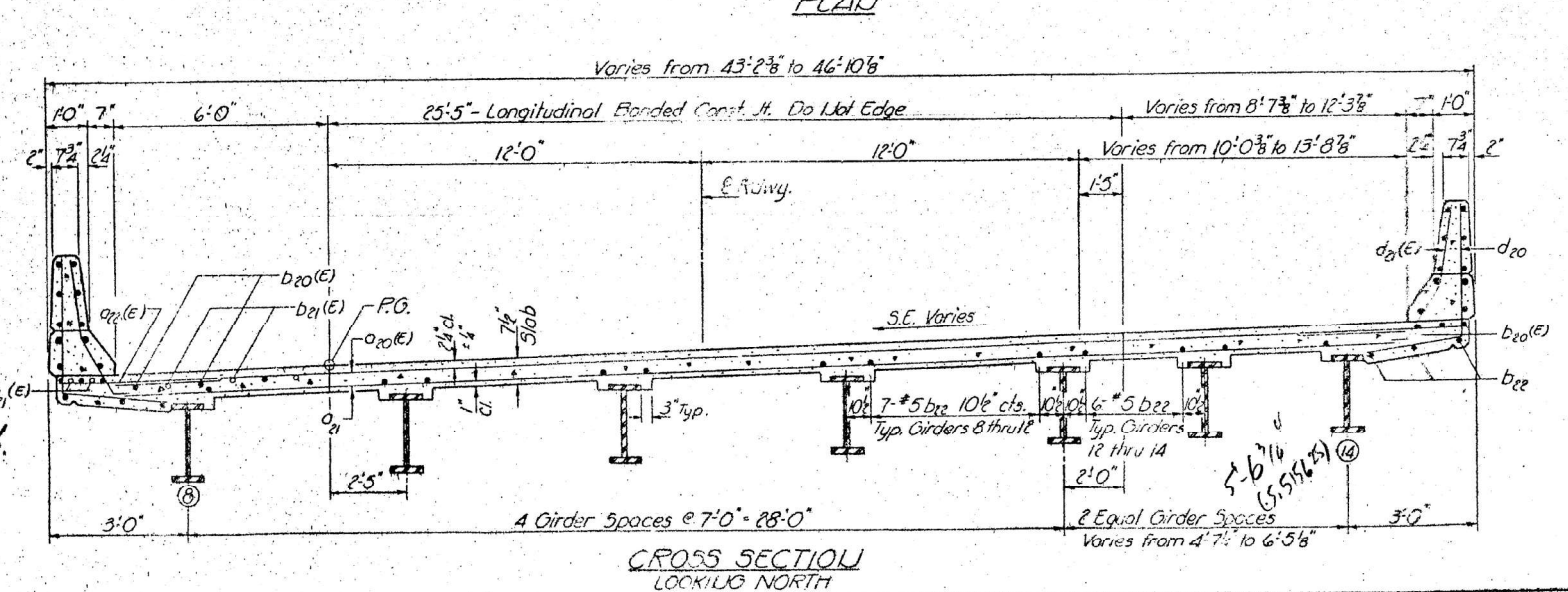
FOR INFORMATION ONLY
 LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
 SN 048-0076 & SN 048-0077

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13
48	17B-3	Knox	43	21	27 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



Note:
 Min. bar laps for #5 bars = 1'-9\"/>



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

EAST BOUND LANES
 SUPERSTRUCTURE
 F.A. RT. 404 SEC. 48-17B-3
 KNOX COUNTY
 STA. 893+82.00

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TWM, INC.
 www.twm-inc.com
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
DESIGNED	- BCS	DRAWN	- BCS	REVISED	-
CHECKED	- TBP	CHECKED	- TBP	REVISED	-
DATE	- SEPT 2025	REVISED	-		

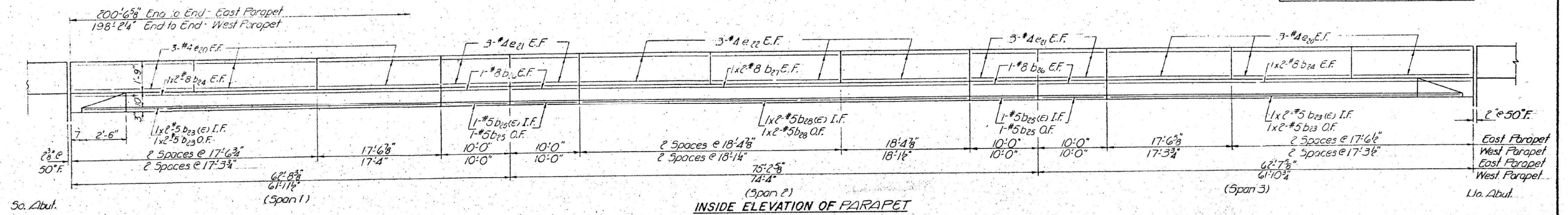
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
 SN 048-0076 & SN 048-0077
 SCALE: N/A SHEET 11 OF 15 SHEETS STA. TO STA.

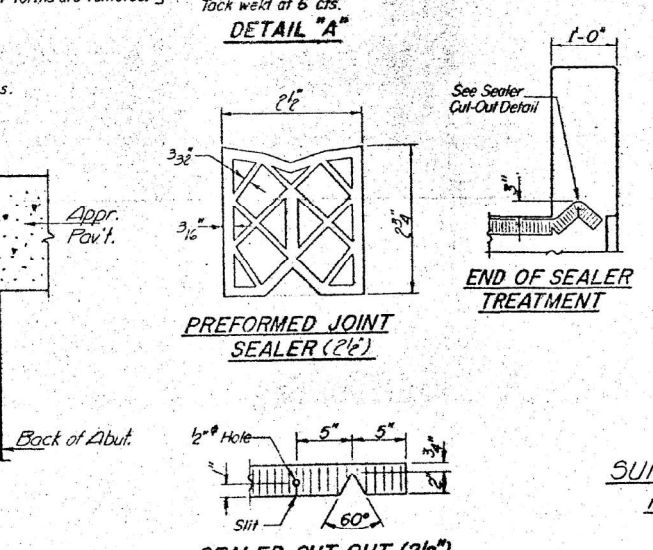
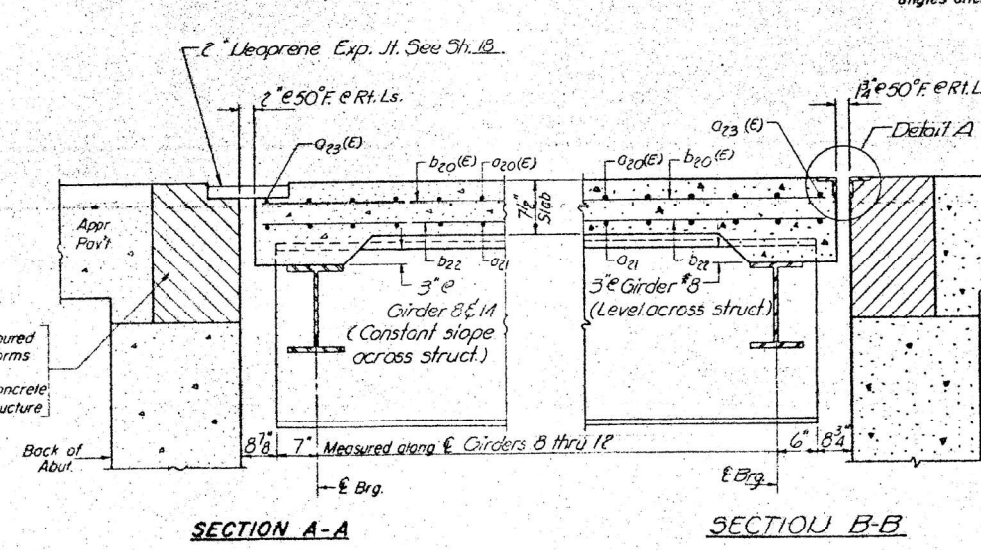
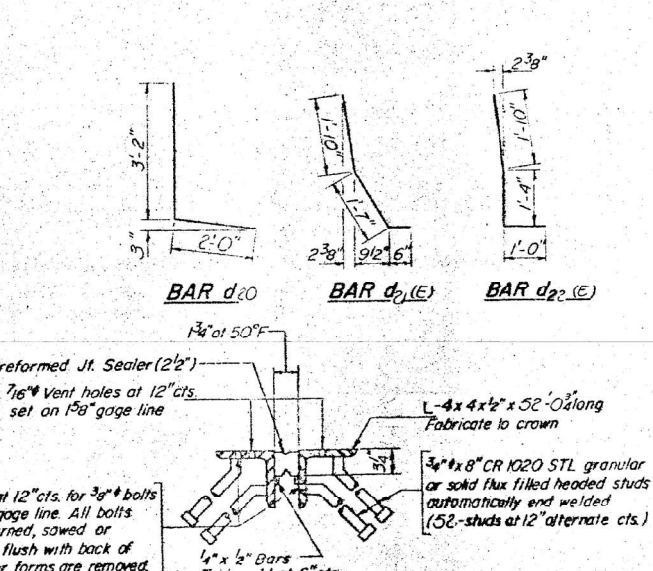
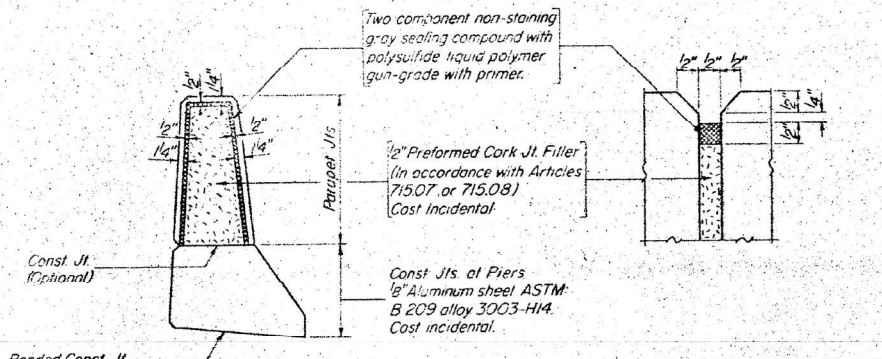
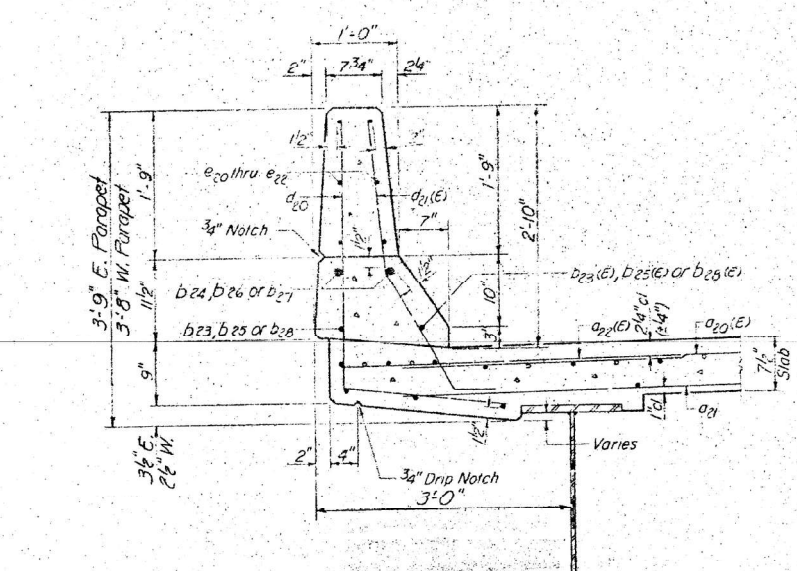
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	64
ILLINOIS FED. AID PROJECT CONTRACT NO. 68K62				

FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14
48-17B-3		Knox	43	22	27 SHEETS



So. Abut. (Span 1)
 MIU LAP
 #5 bar - 1'-9"
 #8 bar - 2'-6"



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	870	#5	23'-3"	
a21	598	#5	23'-0"	
a22(E)	436	#6	4'-0"	
a23(E)	4	#6	28'-0"	
b20(E)	343	#5	30'-3"	
b21(E)	92	#6	24'-9"	
b22	322	#5	30'-3"	
b23(E)	8	#5	27'-1"	
b23a	8	#5	27'-1"	
b24	16	#8	27'-6"	
b25(E)	8	#5	9'-9"	
b25	8	#5	9'-9"	
b26	16	#8	9'-9"	
b27	8	#8	28'-10"	
b28(E)	4	#5	28'-6"	
b28	4	#5	28'-6"	
d20	400	#4	5'-2"	L
d21(E)	420	#5	3'-11"	L
d22(E)	16	#5	4'-2"	L
e20	72	#4	17'-1"	
e21	48	#4	9'-9"	
e22	36	#4	17'-10"	
Reinforcement Bars		Lbs.	30080	
Reinforcement Bars (Epoxy Coated)		Lbs.	10340	
Class X Concrete		Cu Yds	265.8	

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

EAST BOUND LANES SUPERSTRUCTURE DETAILS
 FA. RT. 404 SEC. 48-17B-3
 KNOX COUNTY
 STA. 893+82.00

DESIGNED: [Signature]
 CHECKED: [Signature]
 DRAWN: J.D.
 EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

S-1-D 9.27.76



TWM, INC.
 www.twm-inc.com
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

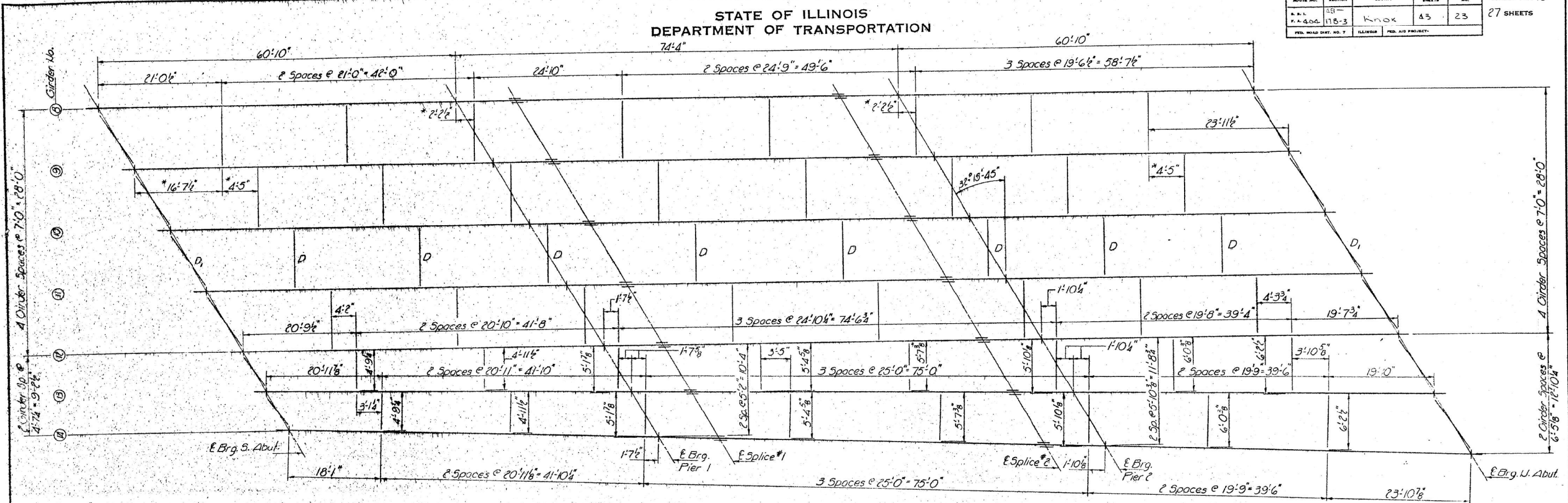
LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	65
ILLINOIS			FED. AID PROJECT	

FOR INFORMATION ONLY
 LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
 SN 048-0076 & SN 048-0077

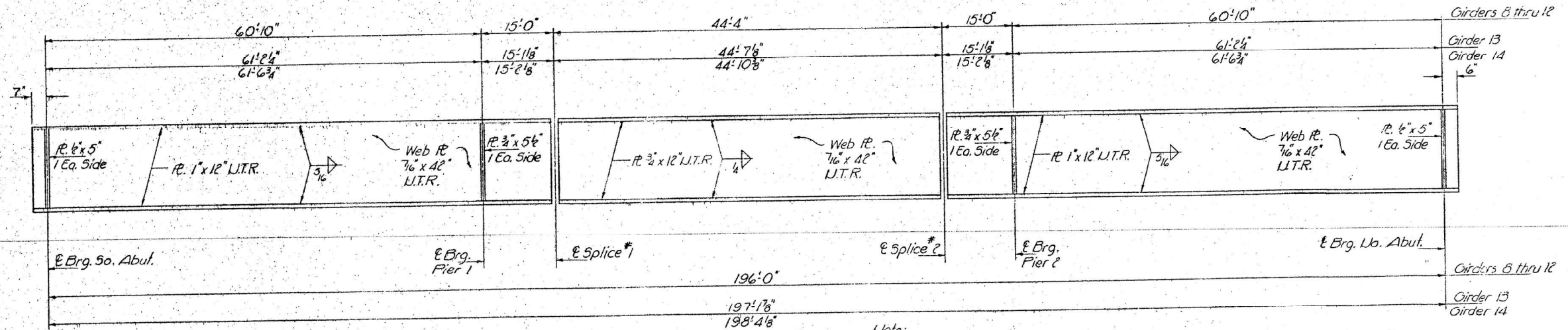
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15 27 SHEETS
A.A.L.	11B-3	Knox	43	23	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



* Typ. except as shown.

FRAMING PLAN



ELEVATION

Note: U.T.R. indicates Ultra-Toughness Requirement Zone 2, See General Notes Sh.#2.
 Work this sheet with sheet #16

DESIGNED	J. Edwards
CHECKED	David M. Meyer
DRAWN	J.D.
CHECKED	J.E. [Signature]

EXAMINED	May 2 2025 Carl E. Hummer
PASSED	
APPROVED	

EAST BOUND LANES
 STRUCTURAL STEEL
 EA. RT. 404 SEC 43-17B-3
 KNOX COUNTY
 STA. 893+82.00

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TWM, INC.
 WWW.TWM-INC.COM
 ILL. DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = bstambaugh
 DESIGNED - BCS
 DRAWN - BCS
 CHECKED - TBP
 DATE - SEPT 2025

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
 SN 048-0076 & SN 048-0077

SCALE: N/A SHEET 13 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	66
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
 LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
 SN 048-0076 & SN 048-0077
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16
178-5		Knox	43	24	27 SHEETS

	.45p.1E.65p.3	Pier 1E2	.55p.2
I	1380.0	1380.0	1092.9
S	627.3	627.3	502.5
Q ₁ 5Q	1.166	1.166	1.140
M _{Q1} 5Q	298.4	528.4	246.1
F ₅ Q ₁ 5Q	5.71	10.49	5.88
M ₅ Q ₁	425.0	564.2	393.9
M ₁ imp	114.7	24.7	22.5
M ₅ imp	539.7	453.9	492.4
F ₅ imp	10.32	5.76	11.76
F ₅ Total	16.03	12.27	17.64

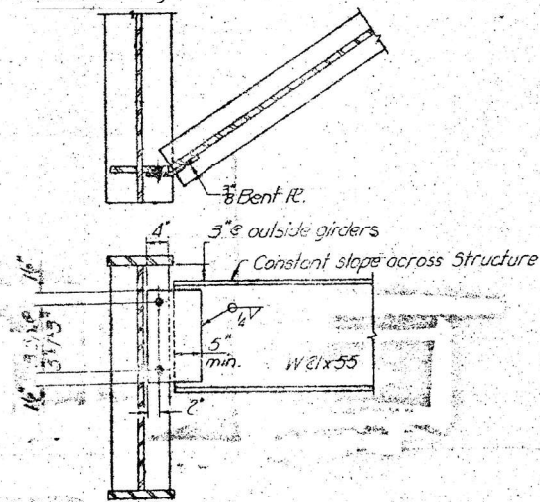
TOP OF WEB ELEVATIONS

Station	Brig. 1	Brig. 2	Brig. 3	Brig. 4	Brig. 5	Brig. 6
8	744.23	744.34	744.162	744.99	745.16	745.85
9	744.59	744.84	744.90	745.22	745.38	746.02
10	744.93	745.12	745.17	745.43	745.57	746.15
11	745.22	745.30	745.32	745.50	745.63	746.15
12	745.47	745.43	745.42	745.47	745.59	746.06
13	745.62	745.49	745.46	745.41	745.52	746.05
14	745.75	745.55	745.52	745.33	745.41	746.07

	Abuts.	Piers
R ₁ Q ₁	26.45	87.23
R ₂ Q ₁	37.32	49.32
R ₃ Q ₁	10.09	16.79
R ₃ Total	73.86	153.34

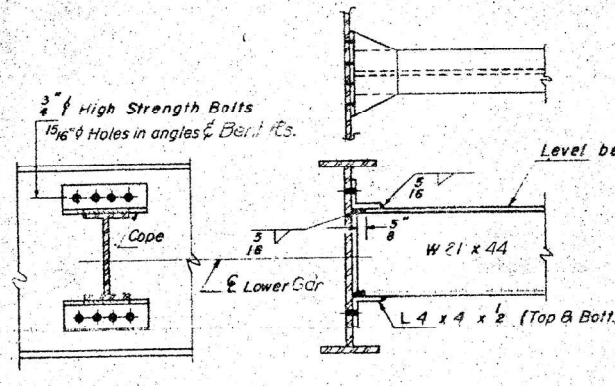
I and S are the moment of inertia and section modulus of the steel section.

** For fabrication only



DIAPHRAGM D1

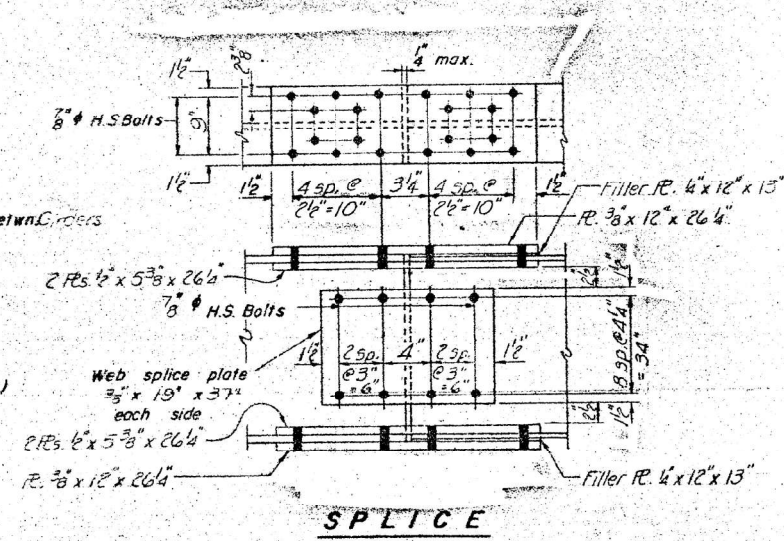
6 Required



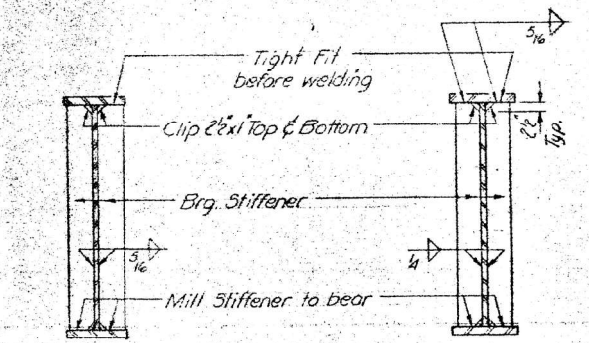
DIAPHRAGM D

4/8 Required

Note: Hardened washers shall be required over 15/16" holes in angles of Bent R's.



SPLICE



SEC. AT PIER

SEC. AT ABUT.

BRG. STIFFENERS

DESIGNED	Exam E. ...	EXAMINED	1978
CHECKED	Exam E. ...	PASSED	
DRAWN		APPROVED	
CHECKED		DIRECTOR OF HIGHWAYS	

EAST BOUND LANES
 STRUCTURAL STEEL DETAILS
 F.A. RT. 404 SEC. 48-178-3
 KNOX COUNTY
 STA 893+82.00



TWM, INC.
 WWW.TWM-INC.COM
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh
 PLLOT SCALE = 10.0000" / 1' ft.
 PLOT DATE = 9/8/2025

DESIGNED - BCS
 DRAWN - BCS
 CHECKED - TBP
 DATE - SEPT 2025

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
 SN 048-0076 & SN 048-0077

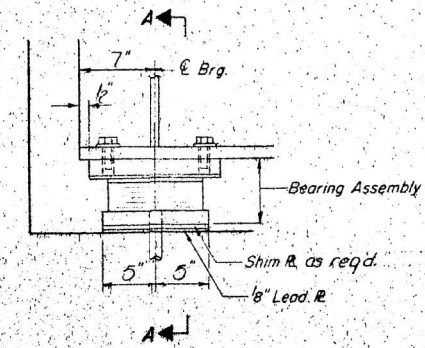
SCALE: N/A SHEET 14 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	67
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

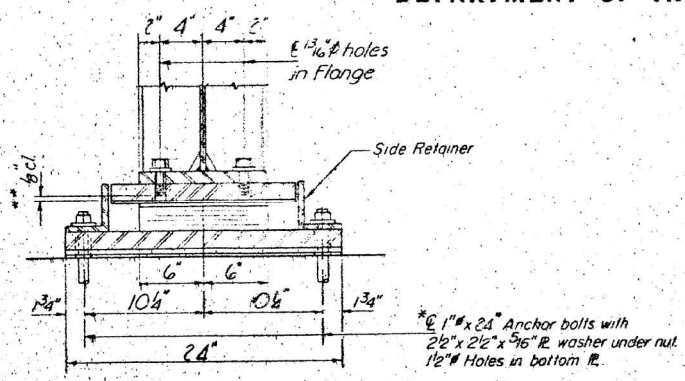
FOR INFORMATION ONLY
LOCATION 4 & 5 (US 34 OVER CEDAR CREEK)
SN 048-0076 & SN 048-0077

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

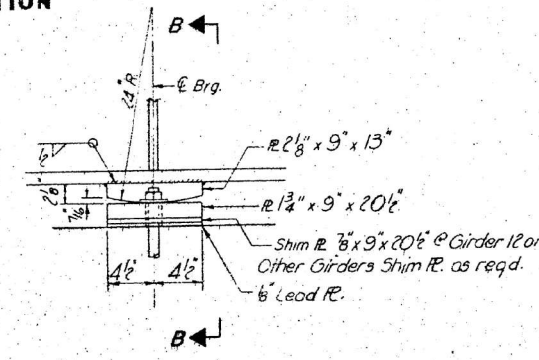
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17 27 SHEETS
104	4B-3	Knox	43	25	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



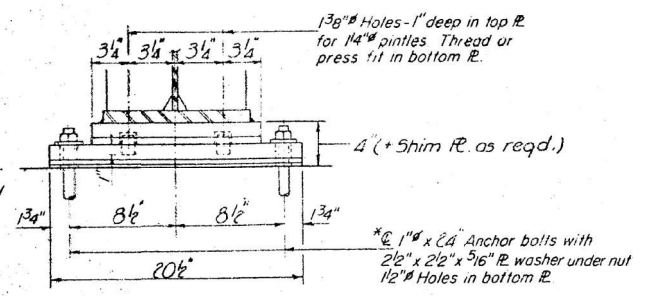
SECTION AT SO. ABUT



SECTION A-A

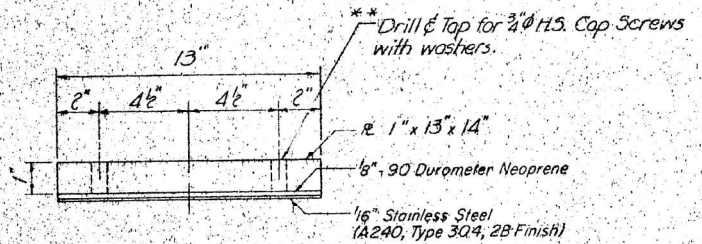


ELEVATION AT PIER 2

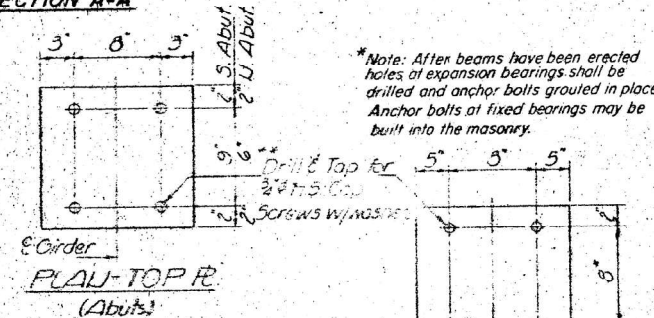


SECTION B-B

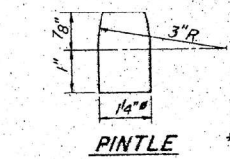
TYPE II TFE ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

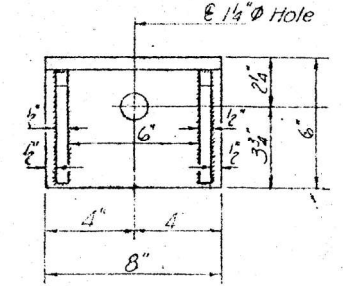


FLAU-TOP R. (Abut.)

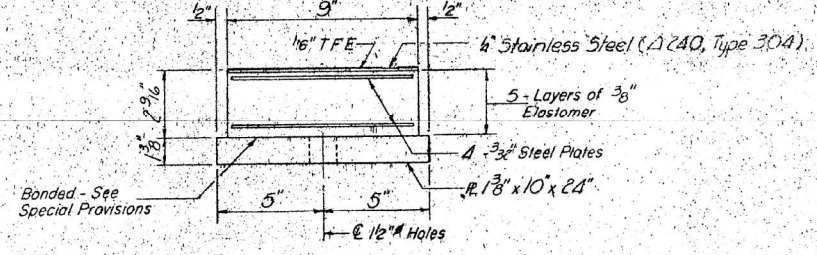


PINTLE

** Cap Screws shall not contact elastomer when tightened.

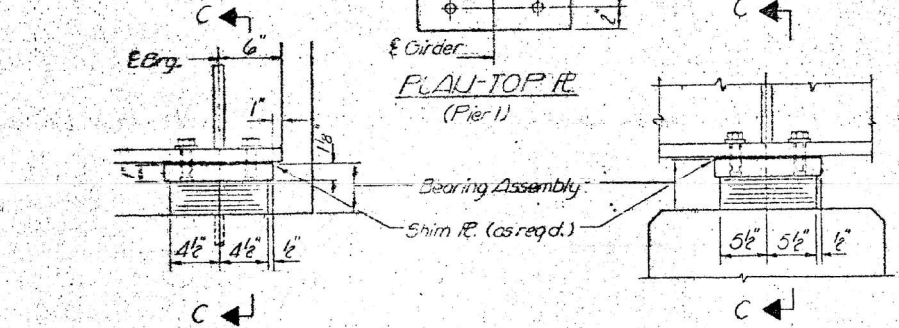


FLAU



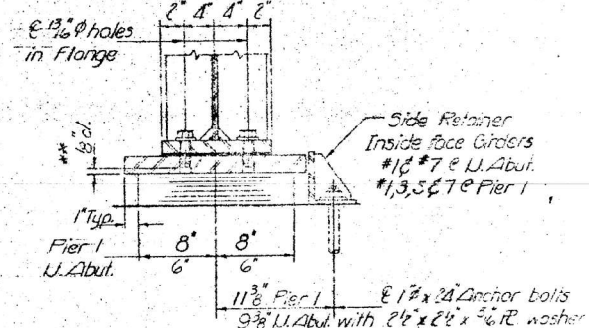
BOTTOM BEARING ASSEMBLY

Note:
 The 1/8" TFE sheet shall be bonded directly to the top steel laminate sheet with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

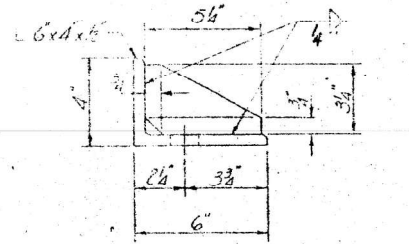


SECTION AT UO. ABUT.

SECTION AT PIER 1



SECTION C-C

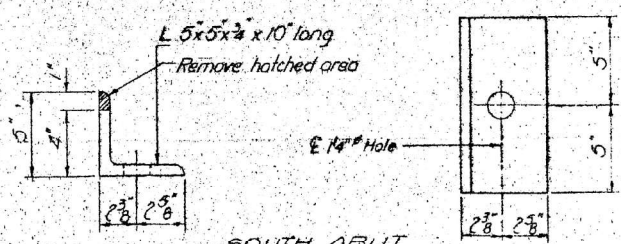


TYR. END VIEW

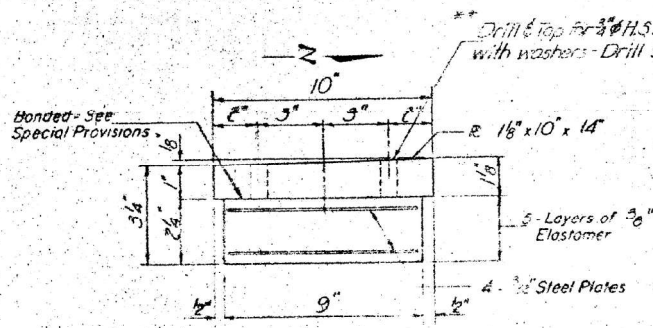
PIER 1 & UO. ABUT. SIDE RETAINER

(6 Required)

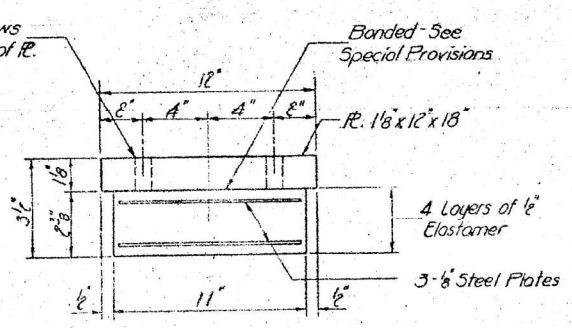
TYPE I ELASTOMERIC EXP. BRG.



SOUTH ABUT. SIDE RETAINER
 (14 Required)



BEARING ASSEMBLY UO. ABUT.



BEARING ASSEMBLY PIER 1

Note:
 Elastomeric Bearing Assemblies shall be cost incidental to Structural Steel. Cap Screws with washers are cost incidental to Structural Steel.

DESIGNED	John Edison	EXAMINED	Carl E. Thumant
CHECKED	Shane H. Meyer	PASSED	
DRAWN	J.D.	APPROVED	
CHECKED	J.C. Gamm	DIRECTOR OF HIGHWAYS	

EAST BOUND LANES BEARING DETAILS
 EA.RT. 404 SEC. 4B-17B-3
 KNOX COUNTY
 STA. 893+82.00



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO. 184-001220

USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000 / 1 in.	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/8/2025	CHECKED	- TBP	REVISED	-
		DATE	- SEPT 2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 & 5 - STRUCTURE INFORMATION
SN 048-0076 & SN 048-0077

SCALE: N/A SHEET 15 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	68
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

* FAS 220 & FA 639
 ** 22RS-1, 23RS-2, (23B)BR-1, 1251

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 220	**	MERCER	102	34
FED. AID PROJECT				

SHEET NO. 1
 OF 13 SHEETS

BENCH MARK:

CHISLED "M" ON SOUTH-WEST CORNER OF THE BRIDGE ON THE CURB. STA. 260+54.00, ELEV. 694.09

EXISTING STRUCTURE:

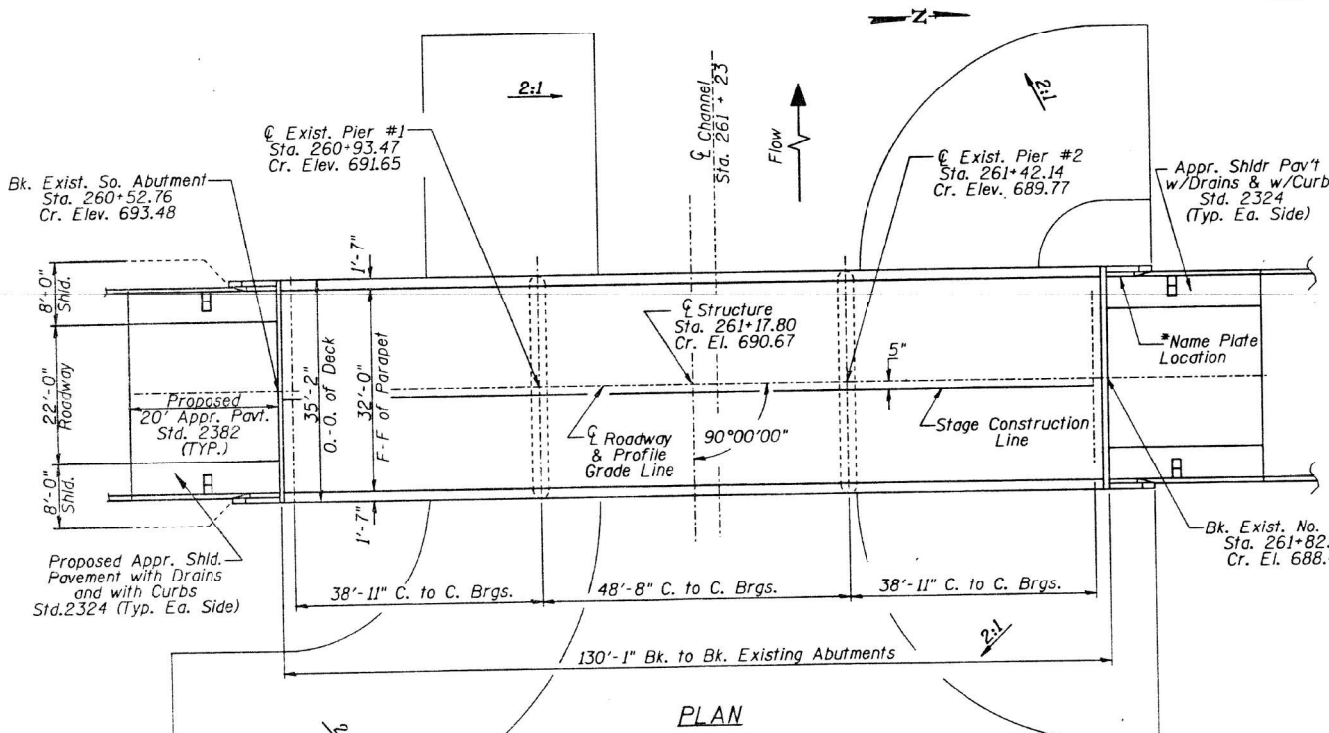
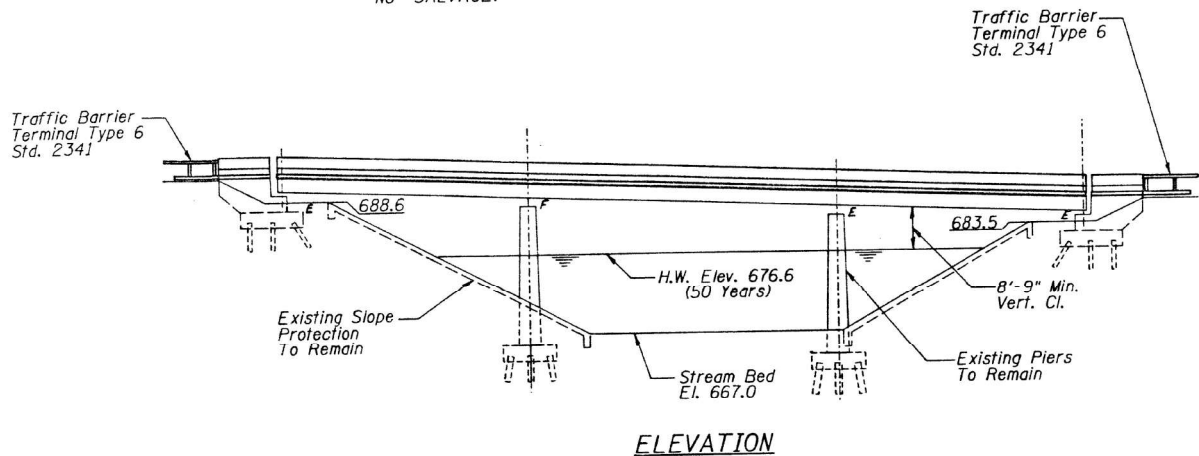
STATION 261+17.80, ROUTE ILL-94, SECTION 23, MERCER COUNTY.
 STRUCTURE NUMBER 066-0007.
 YEAR BUILT 1960.
 3 CONTINUOUS SPANS WITH CONCRETE DECK ON WF BEAMS.
 R.C. PILE BENT ABUTMENTS AND PIERS ON STEEL PILES.
 DECK TO BE REMOVED AND STRUCTURE WIDENED.
 TRAFFIC TO BE MAINTAINED UTILIZING STAGE CONSTRUCTION.
 NO SALVAGE.

INDEX OF BRIDGE PLANS

1. GENERAL PLAN AND ELEVATION
- 2-3. TOP OF SLAB ELEVATIONS
4. SUPERSTRUCTURE
5. SUPERSTRUCTURE DETAILS
6. NORTH AND SOUTH ABUTMENT MODIFICATIONS
7. BAR SPLICER (COUPLER) DETAILS AT STAGE CONSTRUCTION
8. TEMPORARY BRIDGE RAIL
9. TEMPORARY CONCRETE BARRIER
10. DETAILS OF STAGED CONSTRUCTION
11. ELASTOMERIC EXPANSION BEARINGS
12. PREFORMED JOINT SEAL (2 1/2" AND 4")

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING CONCRETE DECK	LUMP SUM	1		1
CONCRETE REMOVAL	CU. YDS.		4.6	4.6
JACKING & CRIBBING	EACH	12		12
EXPANSION BOLTS (3/4" φ)	EACH		48	48
CLASS X CONCRETE SUPERSTRUCTURE	CU. YDS.	135.3		135.3
CLASS X CONCRETE	CU. YDS.		12	12
REINFORCEMENT BARS (EPOXY COATED)	POUND	31,050	1,940	32,990
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4,660		4,660
STRUCTURAL STEEL REMOVAL	POUND	2,350		2,350
PREFORMED JOINT SEAL 2 1/2"	LIN. FT.	35		35
PREFORMED JOINT SEAL 4"	LIN. FT.	35		35
ELASTOMERIC BEARINGS TYPE I	EACH	6		6
ELASTOMERIC BEARINGS TYPE II	EACH	6		6
TEMPORARY BRIDGE RAIL	LIN. FT.	130		130
NAME PLATE	EACH	1		1
PROTECTIVE COAT	SQ. YDS	533.5	17.6	551.1
Bridge Seat Sealer	L.S.	1		1
BRIDGE DECK GROOVING	SQ. YDS	453.3		453.3



DESIGN SPECIFICATIONS

1. Standard Specification For Road and Bridge Construction Adopted July 1, 1988 by the State of Illinois, Department of Transportation, and Supplements.
2. Standard Specifications for Highway Bridges, AASHTO (1989), 1990 and 1991 Interims.

LOADING HS20-44

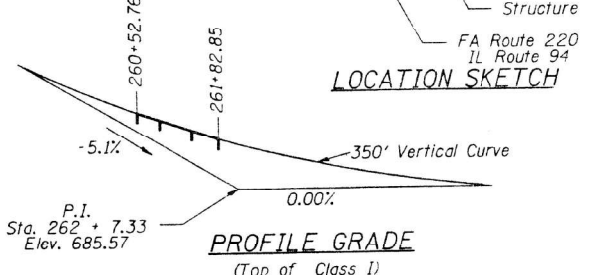
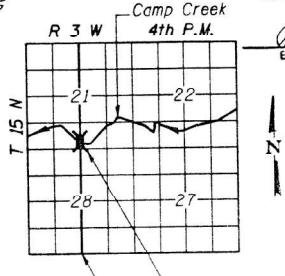
Allow 25#/sq. ft. for future wearing surface. Load Factor Design Utilized for Existing Structural Steel and All New Construction.

DESIGN STRESSES

- CAST-IN-PLACE CONCRETE**
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi-Reinforcement
- STRUCTURAL STEEL**
 $f_y = 32,000$ psi (Existing A-373)
 $f_y = 36,000$ psi (New M 183)

APPROVED FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
 Engineer of Bridges and Structures



WATERWAY INFORMATION

DESIGNED	Flood Freq. Yr.	C.F.S.	Opening Sq. Ft.		Head-Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
CHECKED	50	3120	429	429	676.60	0	0	676.60/676.60
DRAWN	100	3600	455	455	676.97	0	0	676.97/676.97
CHECKED	500	4760	507	507	677.67	0	0	677.67/677.67

STATION 261+17.80
 REBUILT 199- BY
 STATE OF ILLINOIS
 F.A. RTE. 220
 SEC 23 (B) BR-1
 LOADING HS20
 STR. NO. 066-0007

NAME PLATE
 See Std. 2113
 (For Location See Plan)

Samuel B. Cook
 2-12-92
 EXP 11-30-92
McCLURE ENGINEERING ASSOCIATES, INC.

GENERAL PLAN AND ELEVATION

F.A. ROUTE 220 (IL 94)
 OVER CAMP CREEK
 SECTION 23 (B) BR-1
 MERCER COUNTY
 STA. 261+17.80 SN 066-0007

MODEL: D:\d4\11... FILE NAME: P:\2023\2309040227 - Bridges - Painting (FY 2023)\IL CO.DD - DWG\4.7 - Trns\CADD - Sheets\046R62-2R-Structural.dwg
 TWM, INC. LICENSE NO. 184-001220

TWM, INC.
 ENGINEERING GEOSPATIAL SERVICES
 IL DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLGT SCALE = 10.0000" = 1'	DRAWN - BCS	REVISED -
PLGT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

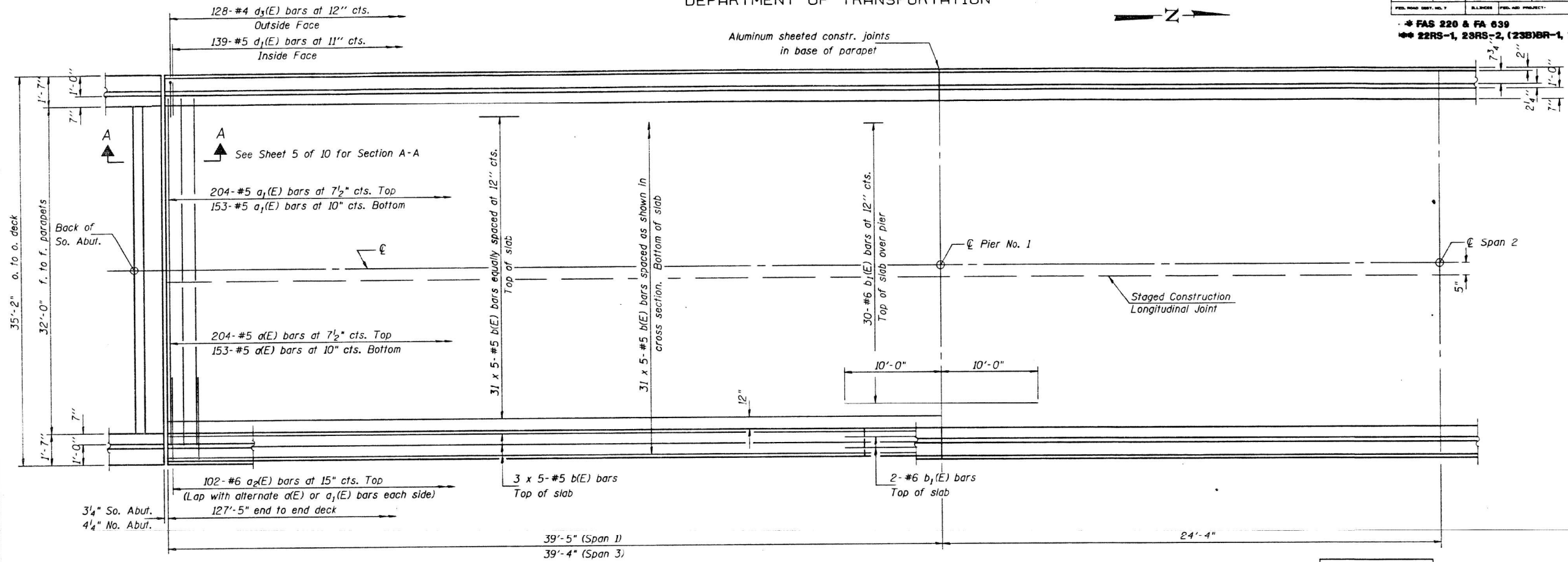
LOCATION 6 - STRUCTURE INFORMATION			
SN 066-0007			
SCALE: N/A	SHEET 1	OF 13 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	69
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 220	D4	MERCER	102	37
SHEET NO. 4 OF 13 SHEETS				

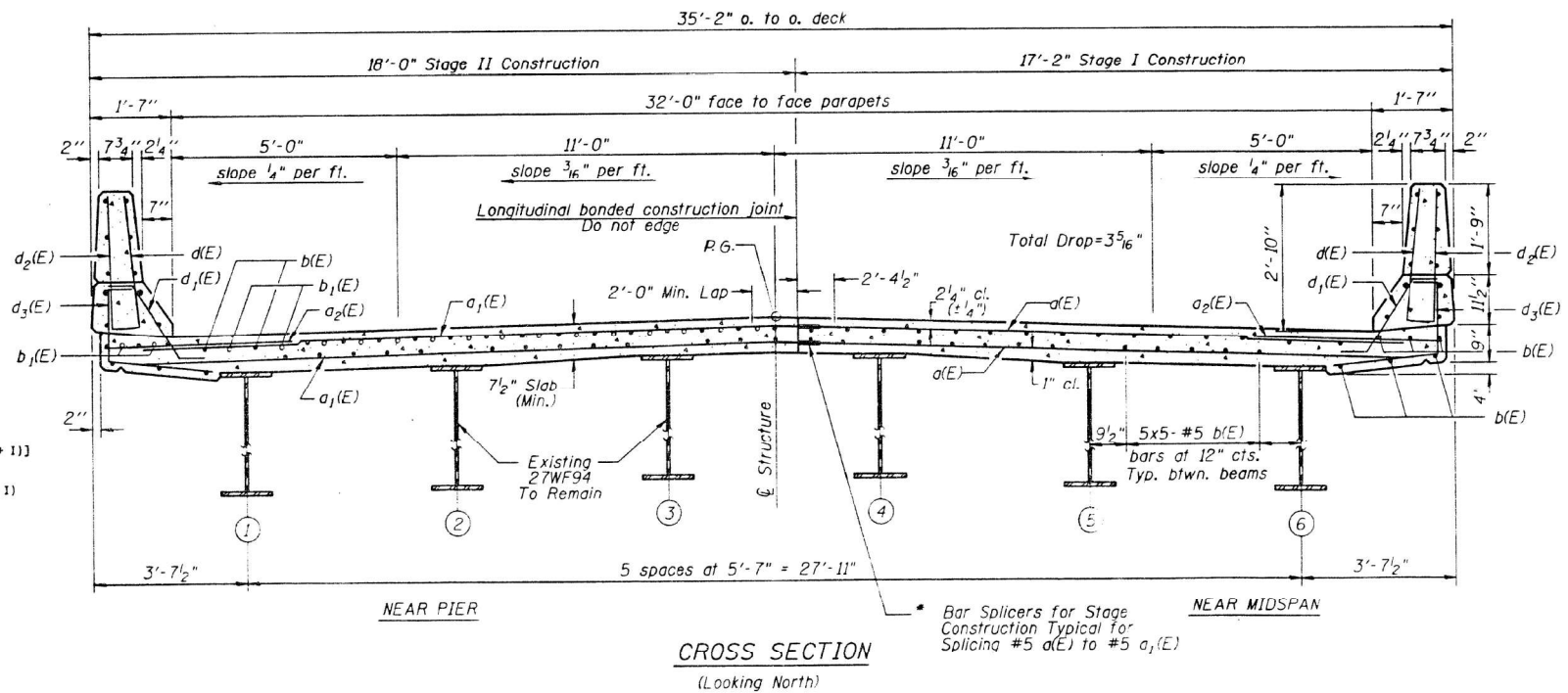


HALF PLAN

MIN. BAR LAP
#5 Bars = 2'-2"

NOTES FOR MOMENT & REACTION TABLES
(See sheet #5 of 13 for Tables)

- I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).
- I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload)
- VR is the maximum \pm impact shear range in span.
- Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.
- The Fully Plastic Moment capacity (M_p) is computed according to AASHTO 10.48.1 & 10.50.1.1.
- f_s (Total) is the sum of the stresses due to 1.3 (M_R + M_S R + $\frac{5}{3}$ (M_L + I))
- f_s (Overload) is the sum of the stresses due to M_R + M_S R + $\frac{5}{3}$ (M_L + I)
- M_R - Moment due to dead loads on non-composite section.
- M_S R - Moment due to dead loads on composite section.
- M_L - Moment due to live load on non-composite or composite section.
- I - Live load impact



CROSS SECTION
(Looking North)

Notes: See Sheet #5 of 13 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.
See Sheet #5 of 13 for parapet reinforcement.
Bar splicers required for slab construction are incidental to reinforcement bars (Epoxy-coated).
See sheet #7 of 13 for details.
* Bar splicer (E) shall be tied with double the number of ties normally used.

SUPERSTRUCTURE
F.A. ROUTE 220 (IL. 94)
OVER CAMP CREEK
SECTION 23 (B) BR-1
MERCER COUNTY
STA. 261+17.80 SN 066-0007



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
CHECKED - TBP	REVISED -	
DATE - SEPT 2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A	SHEET 2 OF 13 SHEETS	STA. TO STA.
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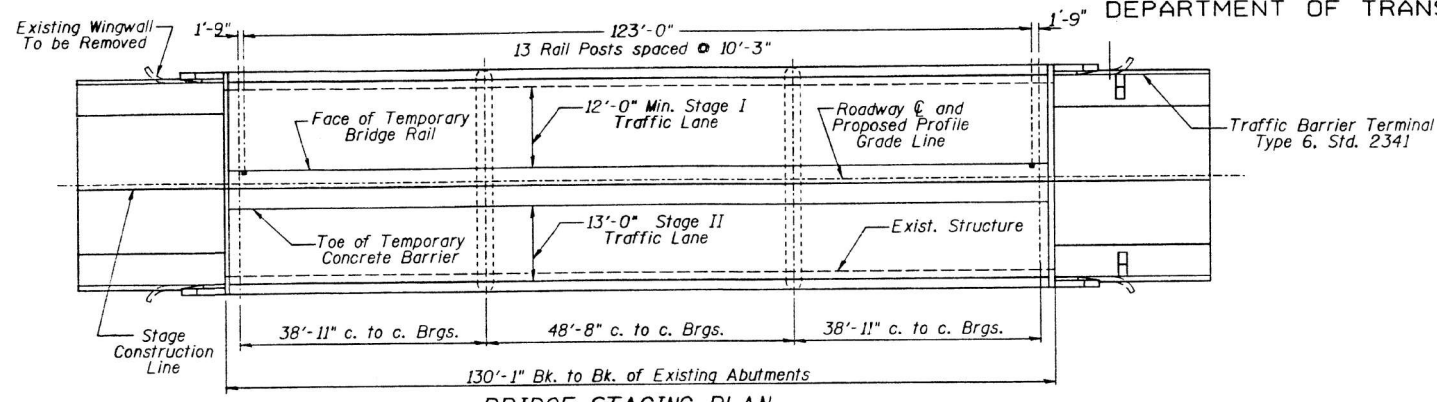
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	70
CONTRACT NO. 68K62				

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

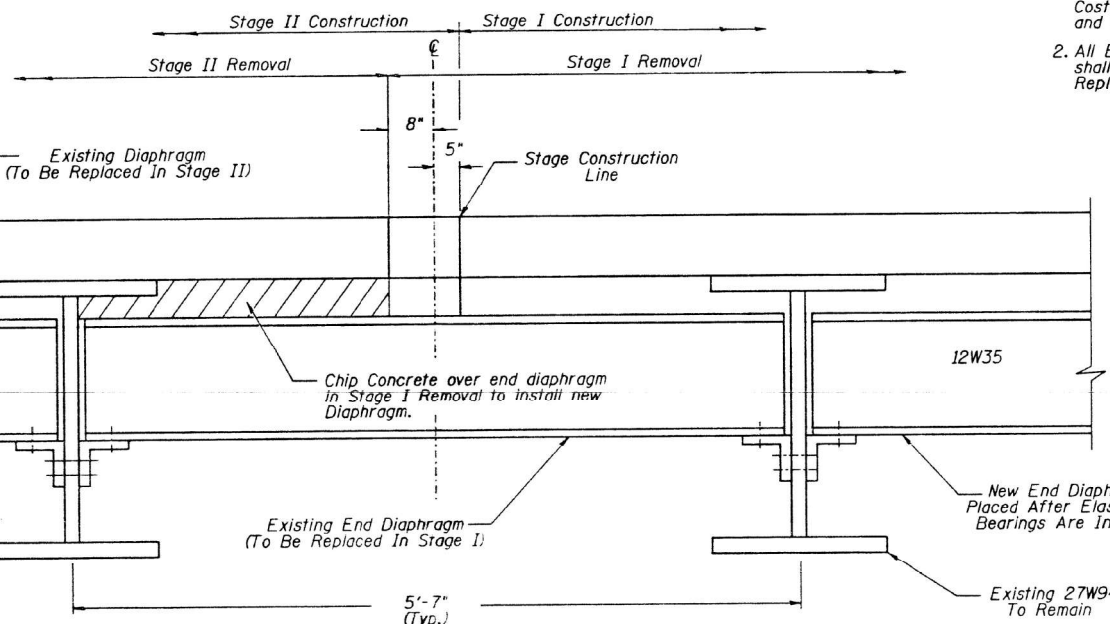
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102	43	MERCER	102	43

SHEET NO. 10
OF 13 SHEETS



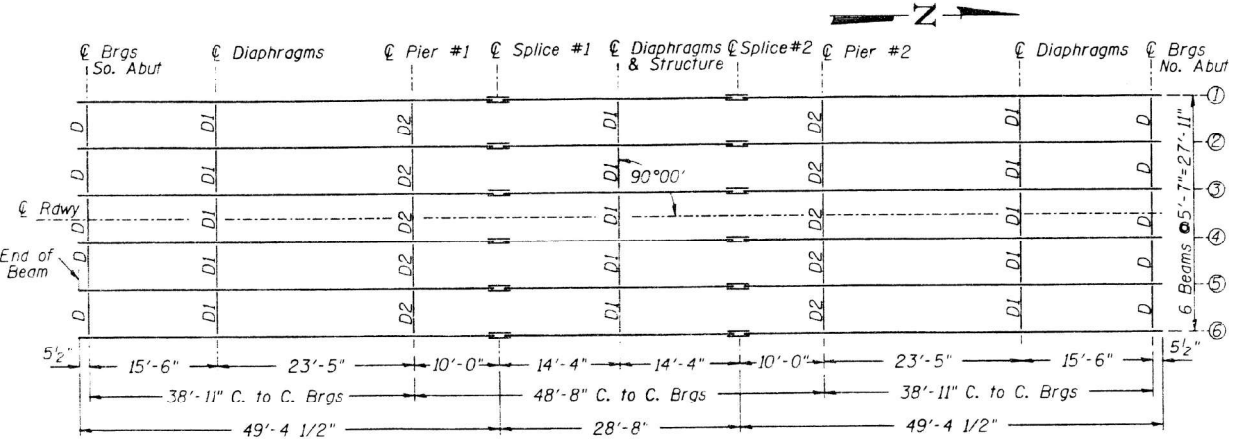
BRIDGE STAGING-PLAN

(For Temp. Concrete Barrier and Temp. Bridge Rail Locations on Approaches - See Roadway Plans.)



DIAPHRAGM REPLACEMENT DETAIL

(LOOKING NORTH)

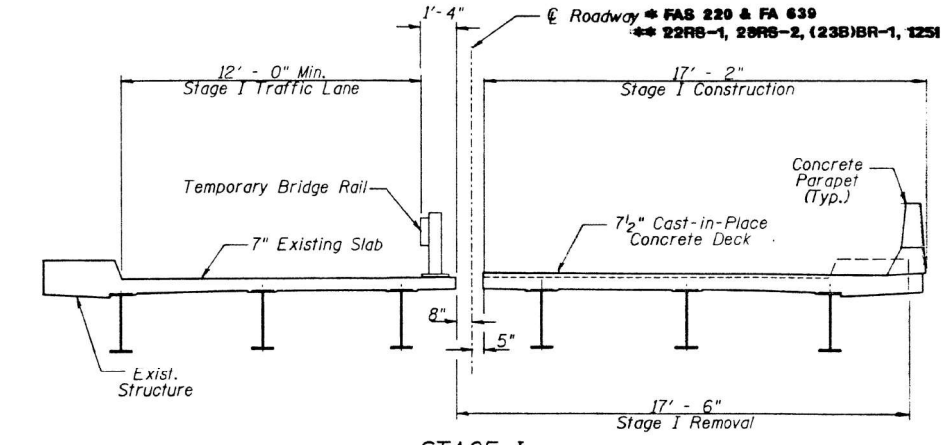


EXISTING FRAMING PLAN

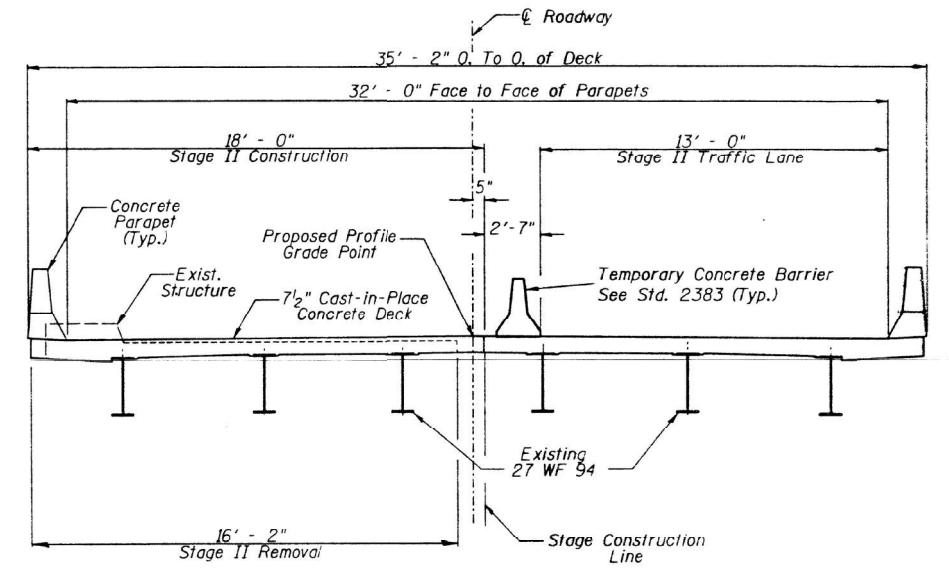
All Beams 27WF94

NOTES:

1. Replace Existing Rivets With $\frac{3}{4}$ " ϕ High Strength Bolts. Field Drill To Match Existing Holes. Use Hardened Washers Over All Oversized Holes. Cost of Rivet Removal is incidental to Furnishing and Erecting Structural Steel.
2. All Existing Beams and Interior Diaphragms D1 and D2 shall remain in place. Replace End Diaphragms D at Abutments only.

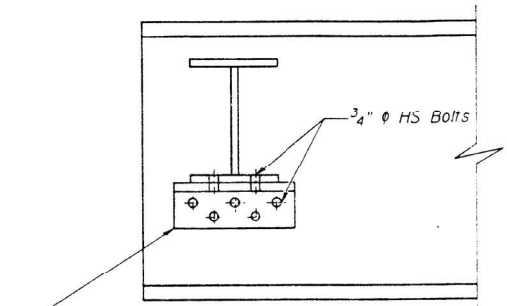


STAGE I



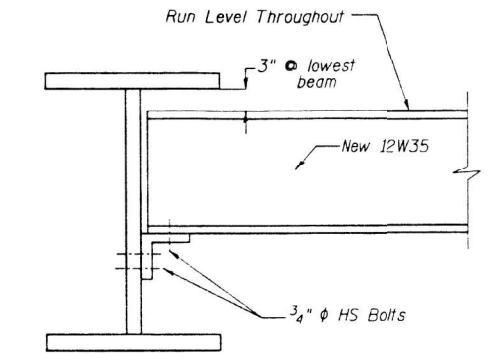
BRIDGE STAGING - SECTIONS THRU DECK

(LOOKING NORTH)



NEW END DIAPHRAGM

(10 REQUIRED)



Note: A Pay Item For Temporary Traffic Barriers, Temporary Guardrail and Temporary Concrete Barrier are included in the Roadway Plans.

DETAILS OF STAGED CONSTRUCTION

F.A. ROUTE 220 (IL. 94)
 OVER CAMP CREEK
 SECTION 23 (B) BR-1
 MERCER COUNTY
 STA. 261+17.80 SN 066-0007

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TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 - STRUCTURE INFORMATION	
SN 066-0007	
SCALE: N/A	SHEET 3 OF 13 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	71
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

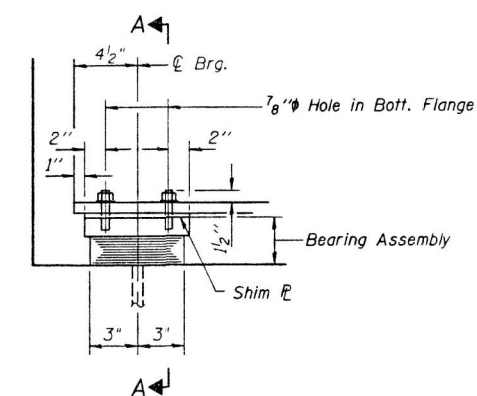
**FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

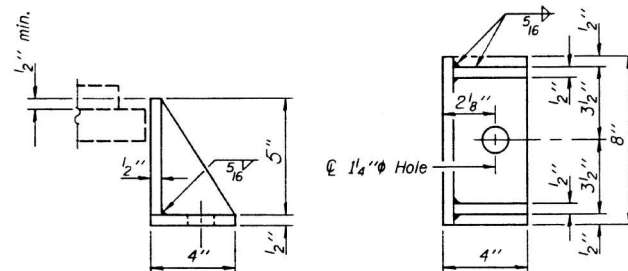
ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET NO.
220	BR-1	MERCER	102	44

OF 13 SHEETS

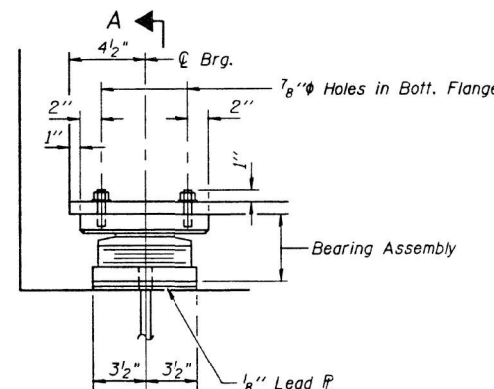
* FAS 220 & FA 839
** 22RS-1, 23RS-2, (23B)BR-1, 1251



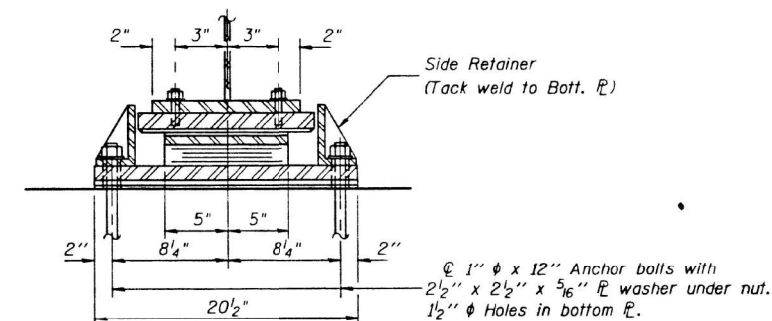
ELEVATION AT ABUT.



SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

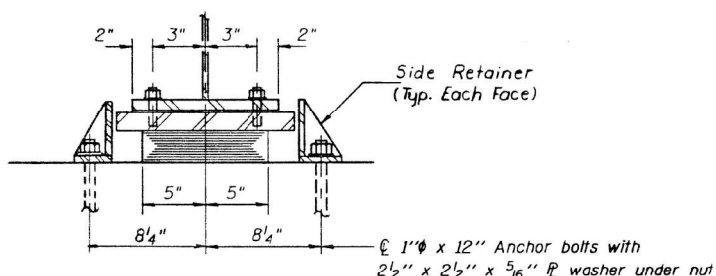


ELEVATION AT ABUT.



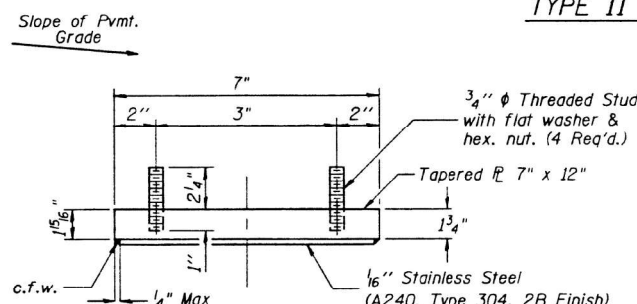
SECTION A-A

**TYPE II TFE ELASTOMERIC EXP. BRG.
NORTH ABUTMENT**

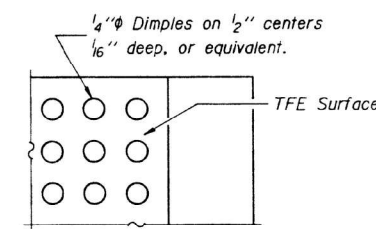


SECTION A-A

**TYPE I ELASTOMERIC EXP. BRG.
SOUTH ABUTMENT**



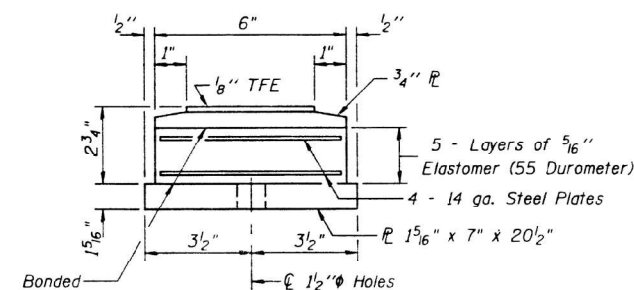
TOP BEARING ASSEMBLY



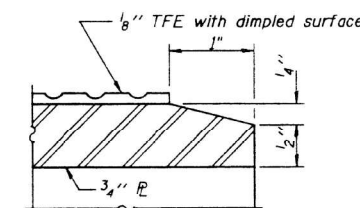
PLAN-TFE SURFACE

JACKING AND REMOVAL OF EXISTING BEARING PROCEDURE:

- Jacking shall be limited to removing existing bearings and replacement of expansion bearings at Abutments only.
- Maximum lift shall be 1/8".
- Anchor bolts shall be cut off and ground flush with top of concrete.
- Minimum jack capacity shall be 3 Tons. Bearings shall be replaced only under the DEAD LOAD of the beam.
- With new bearing in position, new holes shall be drilled thru base plate for new Anchor bolts.



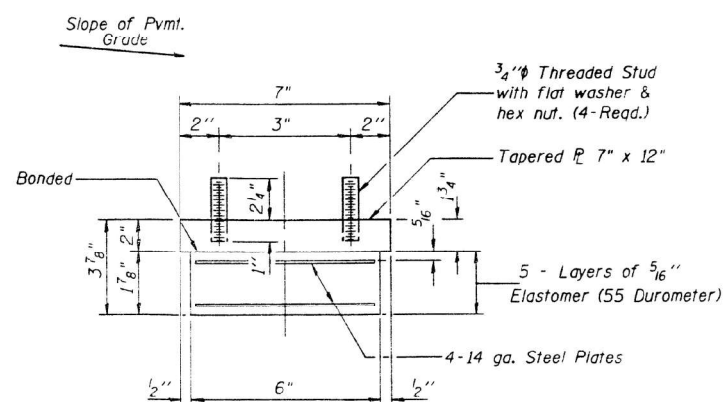
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

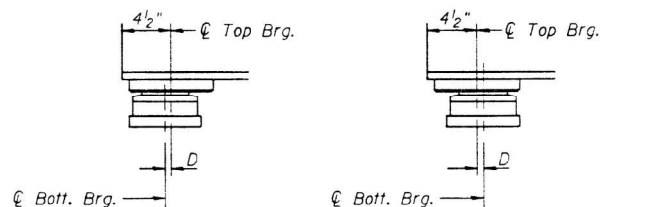
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6



BEARING ASSEMBLY

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



SETTING ANCHOR BOLTS AT EXP. BRG.
BELOW 50°F. (Move bott. brg. away from fixed brg.)
ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

Note: For anchor bolt installation details see sheet #13 of 13.

Note: The 1/8" 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 MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" 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 II	Each	6

ELASTOMERIC EXPANSION BEARINGS

F.A. ROUTE 220 (IL. 94)
OVER CAMP CREEK
SECTION 23 (B) BR-1
MERCER COUNTY
STA. 261+17.80 SN 066-0007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007

SCALE: N/A SHEET 4 OF 13 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	72

CONTRACT NO. 68K62
ILLINOIS FED. AID PROJECT

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TWM
ENGINEERING
GEOSPATIAL SERVICES
TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

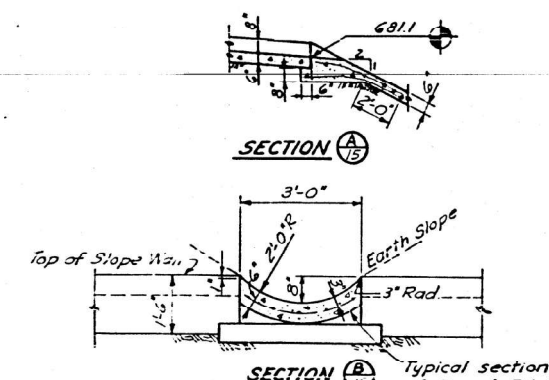
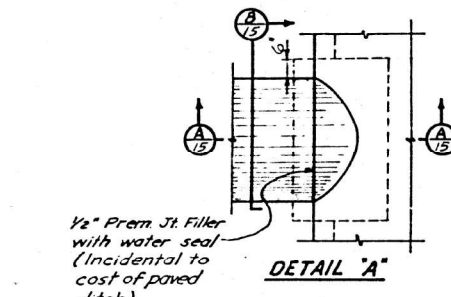
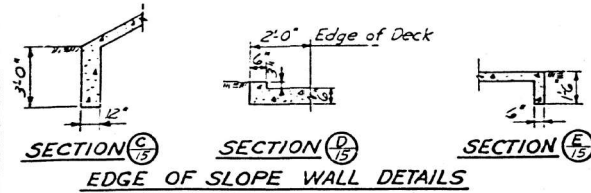
**FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)**

**SN 066-0007
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS**

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
F.A.S. 220	23 BR	MERCER	30	15
STA.		TO STA.		
FED ROAD DIST No 7		ILLINOIS	FED AID PROJECT 5-1045 ()	

Bench Mark #12: R.R. Spk. in east side of 30" Oak,
55' Lt. Sta 259+59 Elev 697.09.

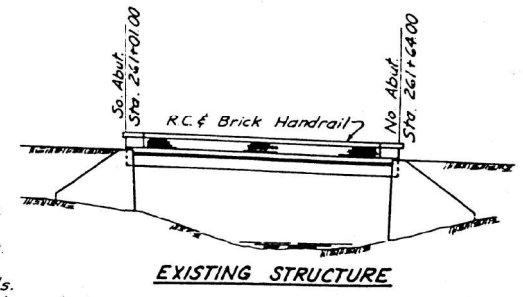
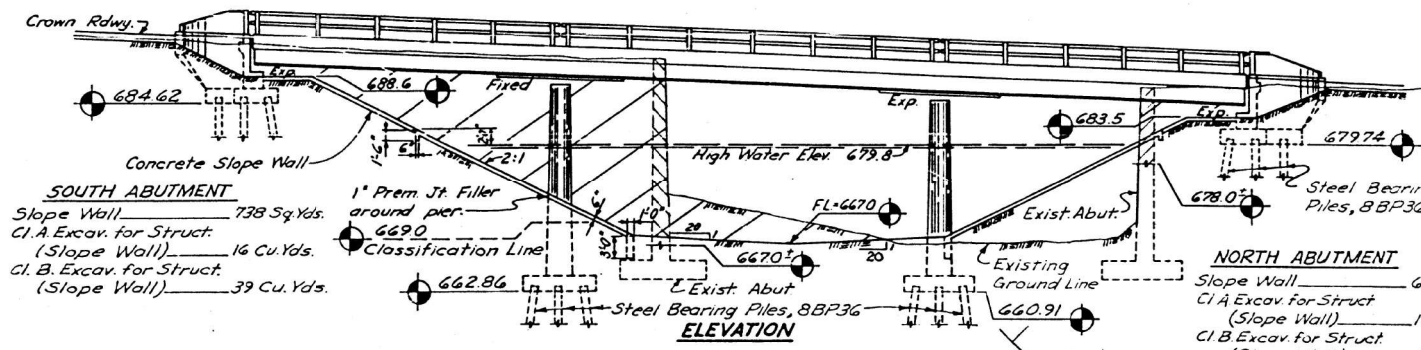
Existing Structure:
Single span, R.C. girders with full abutments and
flared wings. (To be removed, see details this sht.)



- Notes:**
1. Reinforce with 6"x6" welded wire fabric weighing not less than 58 lbs. per 100 sq. ft. (Incidental to cost of Paved Ditch)
2. Construction of paved ditch outlet at top of slope wall incidental to cost of slope wall.

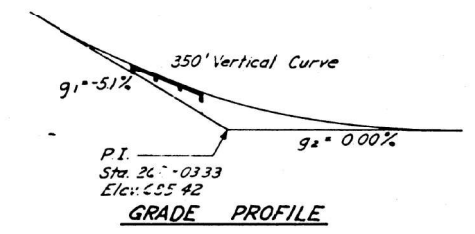
PAVED DITCH DETAILS

DESIGNED	LJL	EXAMINED	
CHECKED	KJH	DESIGNED BY	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	L.S.	PASSED	
CHECKED	LJL	APPROVED	ENGINEER OF DESIGN
			CHIEF HIGHWAY ENGINEER



Note:
Superstructure to be removed and abutments cut down to elevations shown on this sheet. This work shall be done by the Bridge Contractor in accordance with Section 49 of the Standard Specifications. Footing under existing north abutment shall be removed as required to permit proper penetration of piling under new abutment.

REMOVAL OF EXISTING STRUCTURES LEACH

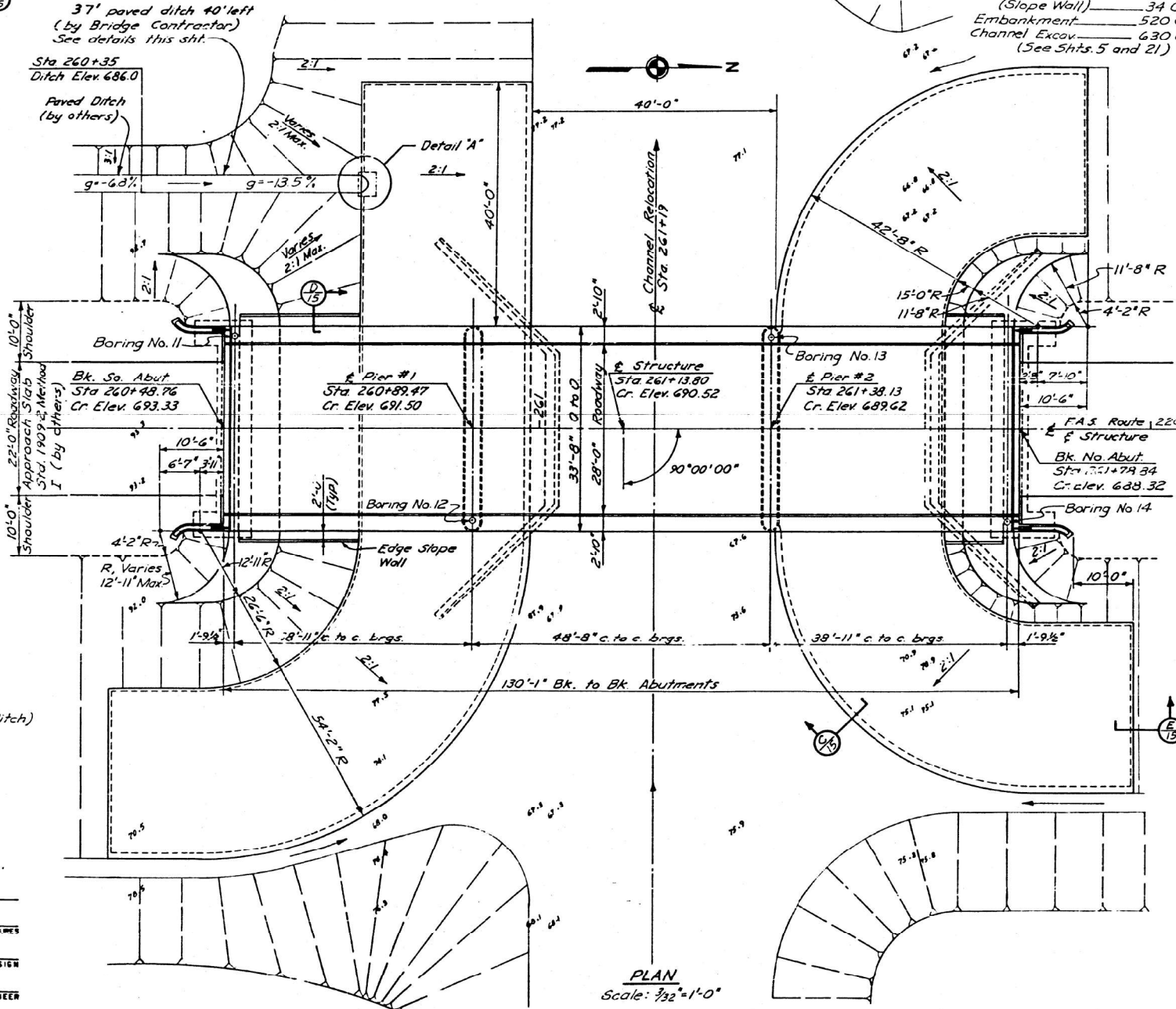


HIGHWAY CLASSIFICATION
165-P-52-1978

WATERWAY INFORMATION

Drainage Area	15,360 Acres
Character	Rolling & Cult.
Required Opening (25 Year Flood)	690 Sq. Ft.
Present Opening	615 Sq. Ft.
Proposed Opening	690 Sq. Ft.
Ordinary Water Elev.	668.5±

See sht. 21 for proposed channel relocation.



PLAN
Scale: 3/32"=1'-0"

NOTE:
See Sheet 3 for General Notes and Total Bill of Material.

ILLINOIS DIVISION OF HIGHWAYS
PROJECT S-1045 ()
CAMP CREEK
GENERAL PLAN AND ELEVATION
F.A.S. ROUTE 220 SECTION 23 BR
MERCER COUNTY
STATION 261+13.80

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TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000' / ft.	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/8/2025	CHECKED	- TBP	REVISED	-
		DATE	- SEPT 2025	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007

SCALE:	N/A	SHEET	5	OF	13	SHEETS	STA.	TO	STA.
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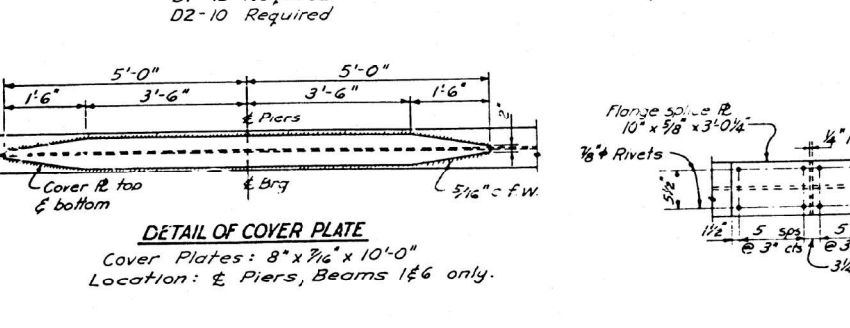
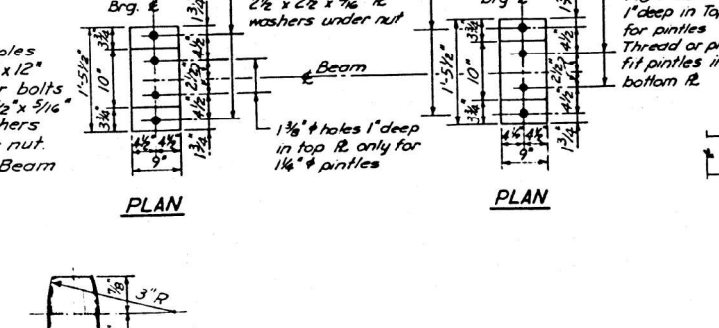
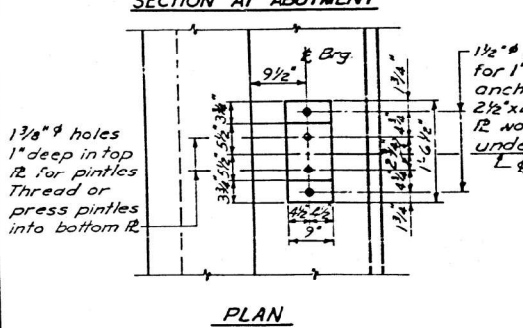
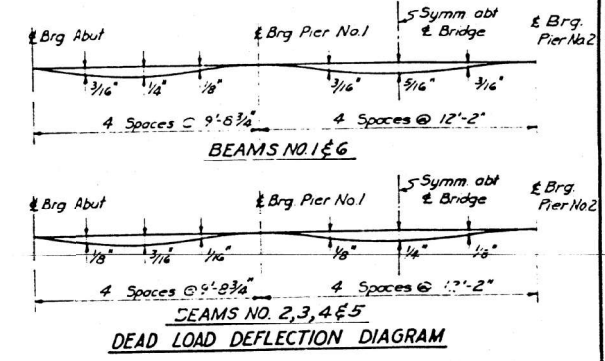
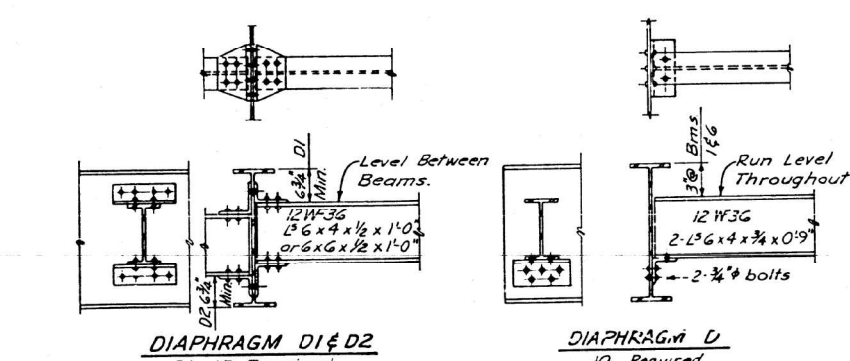
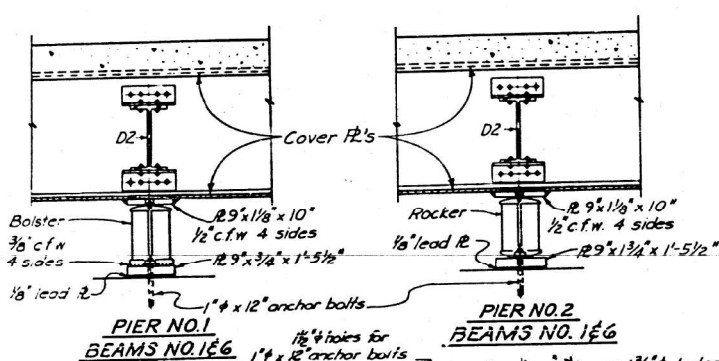
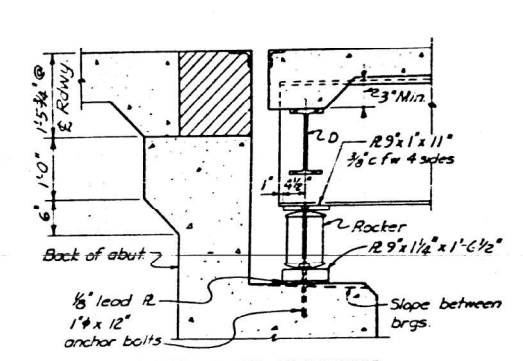
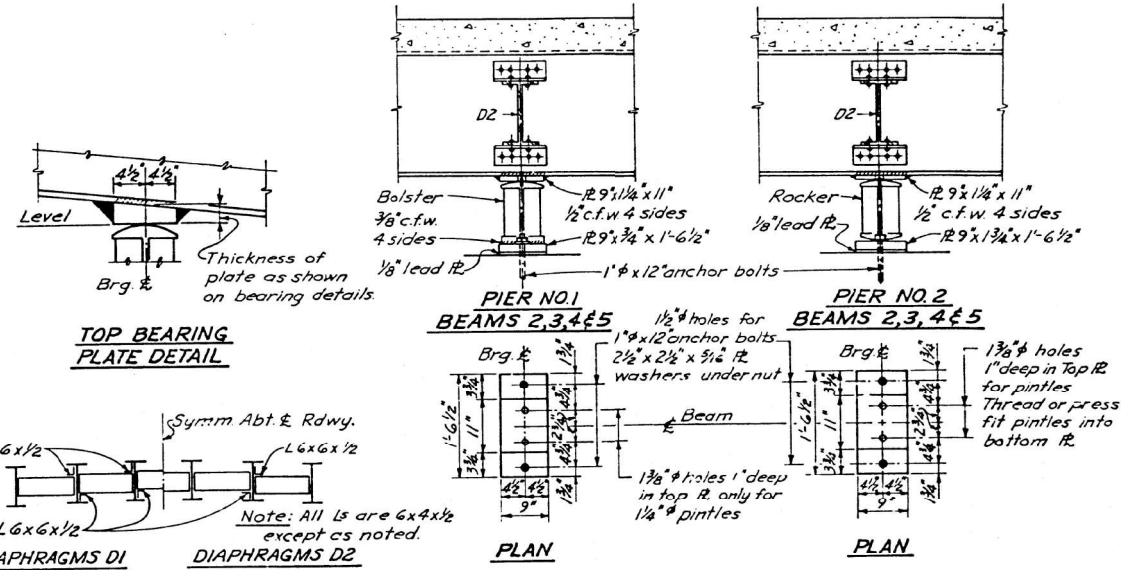
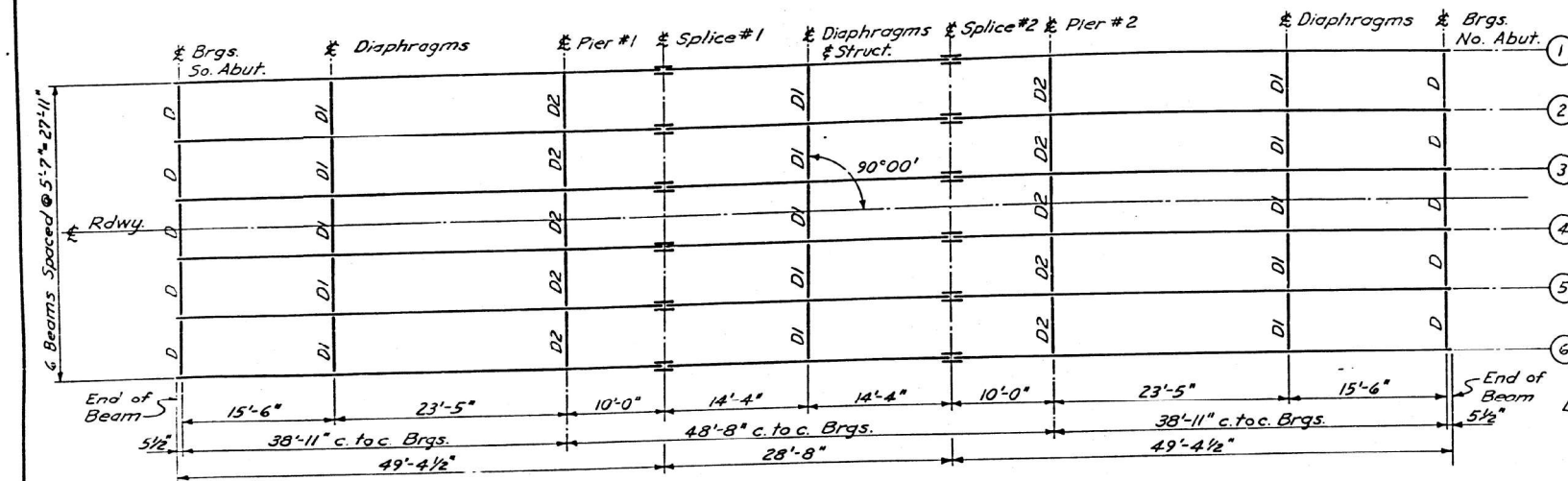
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VAR	D4 BRIDGE PAINTING 2026	VAR	136	73
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)

SN 066-0007

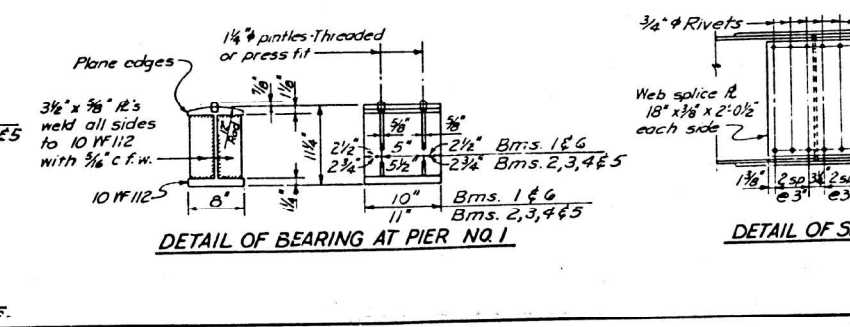
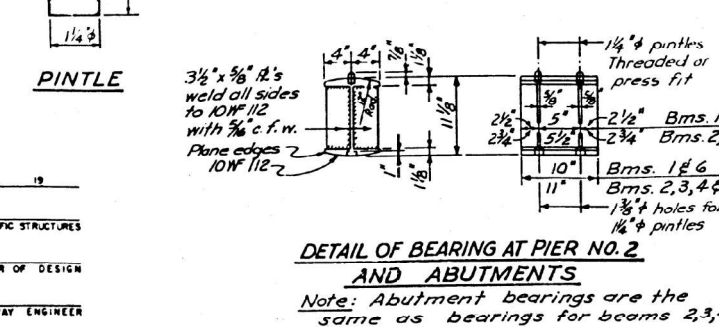
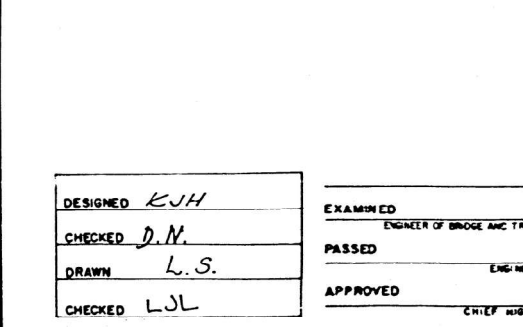
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
FAS 220	23 BR	MERCER	30	17
STA	TO STA			
FED ROAD DIST No 7	ILL INDS. FED AID PROJ. ECT			



ELEVATION TOP OF BEAMS

Beam	1&6	2&5	3&4
Brig. So. Abut.	692.484	692.584	692.638
Brig. Pier No. 1	690.735	690.835	690.889
Splice No. 1	690.286	690.386	690.440
Brig. Pier No. 2	689.180	689.280	689.334
Brig. No. Abut.	688.859	688.959	689.013
Brig. No. Abut.	687.607	687.707	687.761



ILLINOIS DIVISION OF HIGHWAYS
CAMP CREEK
STRUCTURAL STEEL
F.A.S. ROUTE 220 SECTION 23 BR
MERCER COUNTY
STATION 261+13.80

DESIGNED KJH	EXAMINED
CHECKED D.M.	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN L.S.	PASSED
CHECKED LJL	ENGINEER OF DESIGN
	APPROVED
	CHIEF HIGHWAY ENGINEER

TWM, INC.
ENGINEERING GEOSPATIAL SERVICES

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 - STRUCTURE INFORMATION			
SN 066-0007			
SCALE: N/A	SHEET 6	OF 13 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	74
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007**

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	9.8
Concrete Superstructure	Cu. Yd.	9.8
Furnishing and Erecting Structural Steel	Pound	3,250
Reinforcement Bars, Epoxy Coated	Pound	1,625
Bar Splicers	Each	32
Prefomed Joint Strip Seal	Foot	68
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 1"	Each	24
Jack and Remove Existing Bearings	Each	12
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1
Cleaning and Painting Steel Bridge No. 1	L Sum	1
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	33

GENERAL NOTES

The deck surfaces shall have its final lined according to article 420.09 (e) (1) of the Standard Specifications. Cost included with Concrete Superstructures.

All structural steel shall be AASHTO M-270 grade 36, unless otherwise noted.

Existing structure steel that will be in contact with new structure steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Surface Areas of Existing Steel Structures."

The SSPC-QP1 and SSPC-QP-Z "Painter Certifications" will be required for this project.

A minimum of one monitor shall be required. The Contractor shall furnish and install the monitor as directed by the Engineer. See Special Provisions for "Containment and Disposal of Lead Paint Cleaning Residues."

Reinforcement bars designated (E) shall be epoxy coated.

Cost of Removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Steel.

Diaphragms connection holes shall be $\frac{15}{16}$ " diameter for $\frac{3}{4}$ " diameter bolts. Two hardened head washers shall be required at diaphragm connections.

Prior to pouring the new concrete deck, all heavy and 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 Concrete Removal.

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 the scope of work. The contractor will be paid for the quantity actually furnished at the unit price bid for 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 Standard Specifications when the deck is poured at an ambient temperature other than 50°Fahrenheit.

Cleaning and painting of the existing structure steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures." All beams within 5 feet (measured along beam) of the deck joints shall be cleaned per SSPC-SP10 Near White Blast Cleaning and painted with Paint System 1-02/E/U color - Gray Munsell No. 5B 7/1. Existing diaphragms at both abutments will be replaced and are excluded from the cleaning requirements.

The cleaning areas of the structural steel shall be painted per the requirements of "painting system 1-02/E/U." The final finish coat shall be "Interstate green, Munsell No. 7.5 G 1/2."

All new structural steel and bearing assembly shall be not-dip galvanized. See Special Provision for "Hot-Dip Galvanizing for Structural Steel."

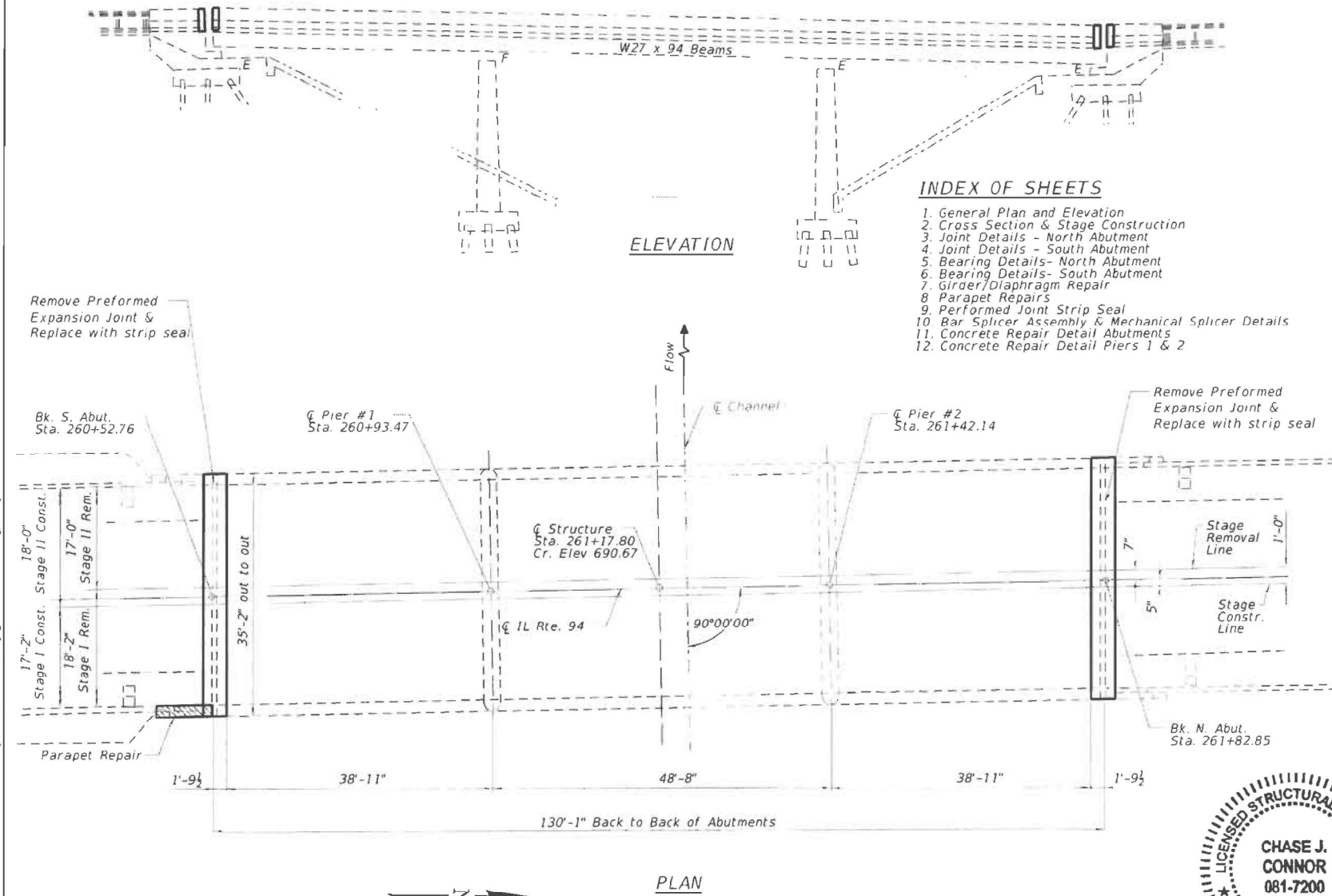
Fasteners shall be high strength bolts. Bolts shall be $\frac{3}{4}$ " \emptyset with open holes $\frac{13}{16}$ " \emptyset unless noted otherwise.

The existing structural steel coating contains lead. The contractor shall appropriate precautions to deal with the presence of lead on this project.

Benchmark:
Chiseled "C" at SW corner of bridge on the curb
Sta. 260+54, Elev. 694.09.

Existing Structure No. 066-0007:
The existing structure is a 3 continuous spans of 27" deep Steel I-Beams supporting a cast in place concrete deck constructed in 1960 as Section 23-BR. The superstructure is supported by reinforced concrete pile bent abutments and reinforce concrete piers on steel piles. It has an out-to-out deck width of 35'-2" and a 130'-1" back to back abutment length.

Traffic to be maintained utilizing stage construction. No salvage.

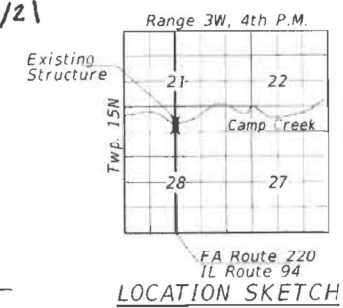


INDEX OF SHEETS

1. General Plan and Elevation
2. Cross Section & Stage Construction
3. Joint Details - North Abutment
4. Joint Details - South Abutment
5. Bearing Details - North Abutment
6. Bearing Details - South Abutment
7. Girder/Diaphragm Repair
8. Parapet Repairs
9. Performed Joint Strip Seal
10. Bar Splicer Assembly & Mechanical Splicer Details
11. Concrete Repair Detail Abutments
12. Concrete Repair Detail Piers 1 & 2

SCOPE OF WORK

1. Setup traffic control with drums
2. Perform joint reconstructions
3. Perform beam end repairs
4. Replace bearings at abutments
5. Switch stages and repool
6. Perform Slopewall repair



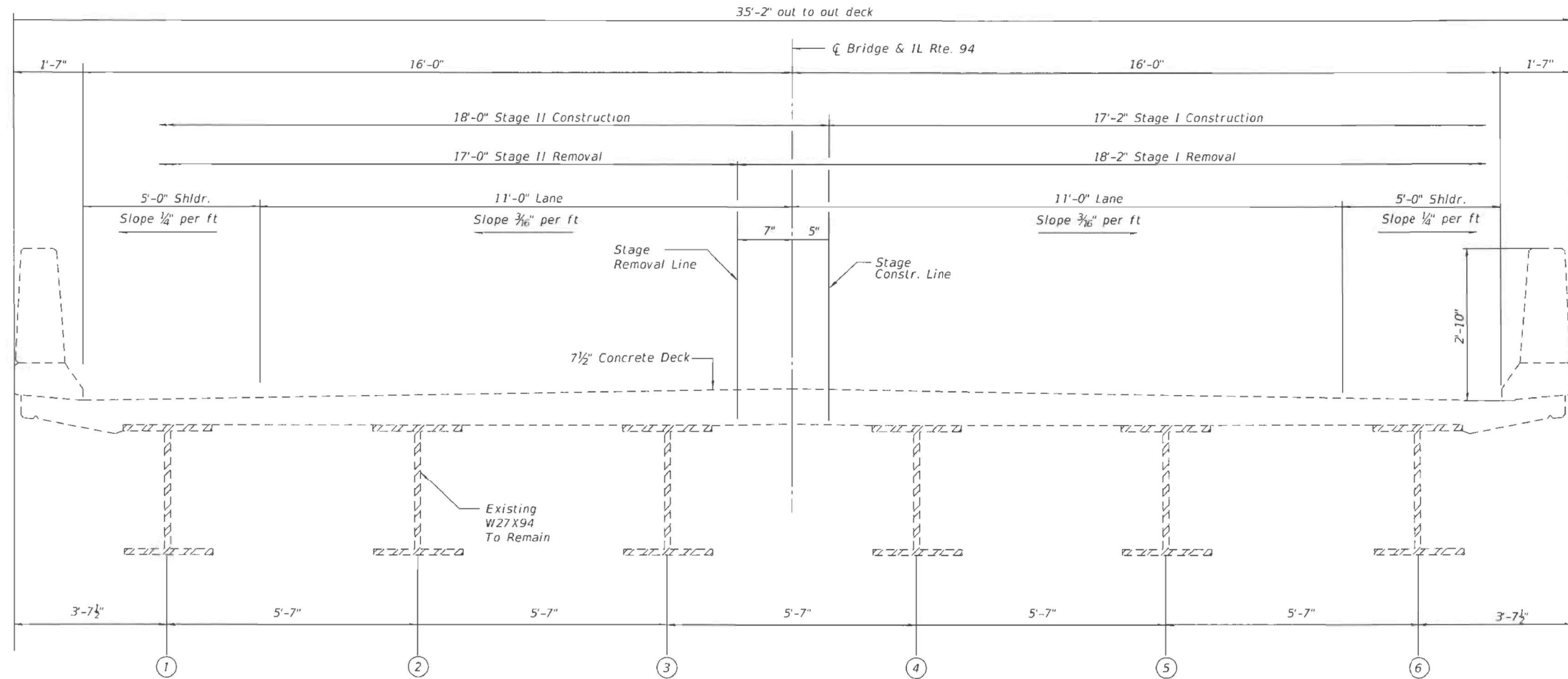
**BRIDGE REPAIRS
ILLINOIS ROUTE 94
OVER CAMP CREEK
MERCER COUNTY
STATION 261+17.80
STRUCTURE NO. 066-0007**

Date: 6/16/21

CHASE J. CONNOR, P.E., S.E.
 ILLINOIS STRUCTURAL NO. 7200
 EXPIRES: NOVEMBER 30, 2022

	Hurst-Rosche, Inc.	DESIGNED - CMV	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 066-0007	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = bstambaugh	CHECKED - CJC	REVISOR -			220	23(B)BR-1	MERCER	23	10
	TWM, INC.	DRAWN - LO	REVISOR -	LOCATION 6 - STRUCTURE INFORMATION		SCALE: N/A	SHEET 7 OF 13 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT
	TWM, INC.	CHECKED - CMV	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LOCATION 6 - STRUCTURE INFORMATION		SN 066-0007		CONTRACT NO. 68K62
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**FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007**



CROSS SECTION
(Looking North)

MODEL: SMODELNAMES
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HR Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3839
JOB NO. 192-2650

USER NAME = bstambaugh	DESIGNED - CMV	REVISED -
CHECKED - CJC	REVISED -	
DRAWN - LO	REVISED -	
CHECKED - CMV	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION & STAGE CONSTRUCTION
STRUCTURE NO. 066-0007**

F.A. RTE. 220	SECTION 23(B)BR-1	COUNTY MERCER	TOTAL SHEETS 23	SHEET NO. 11
CONTRACT NO. 68F78				
ILLINOIS FED. AID PROJECT				

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TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
CHECKED - TBP	REVISED -	
DATE - SEPT 2025	REVISED -	

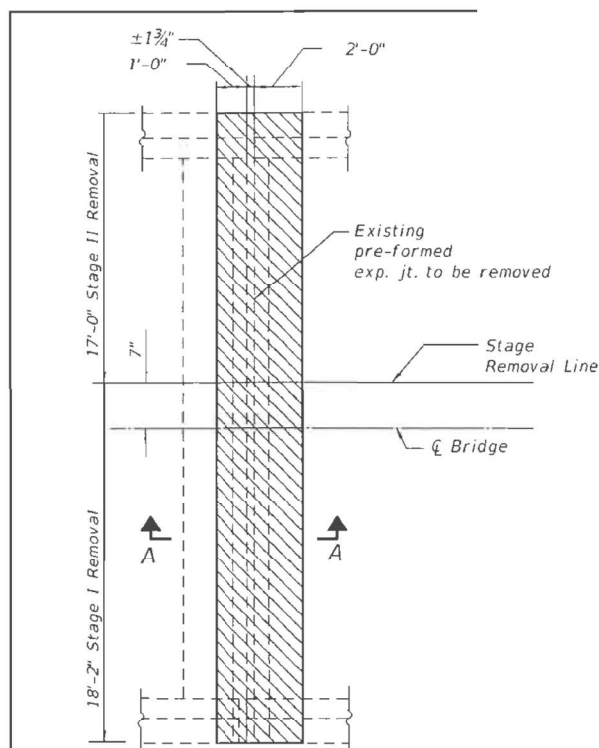
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007**

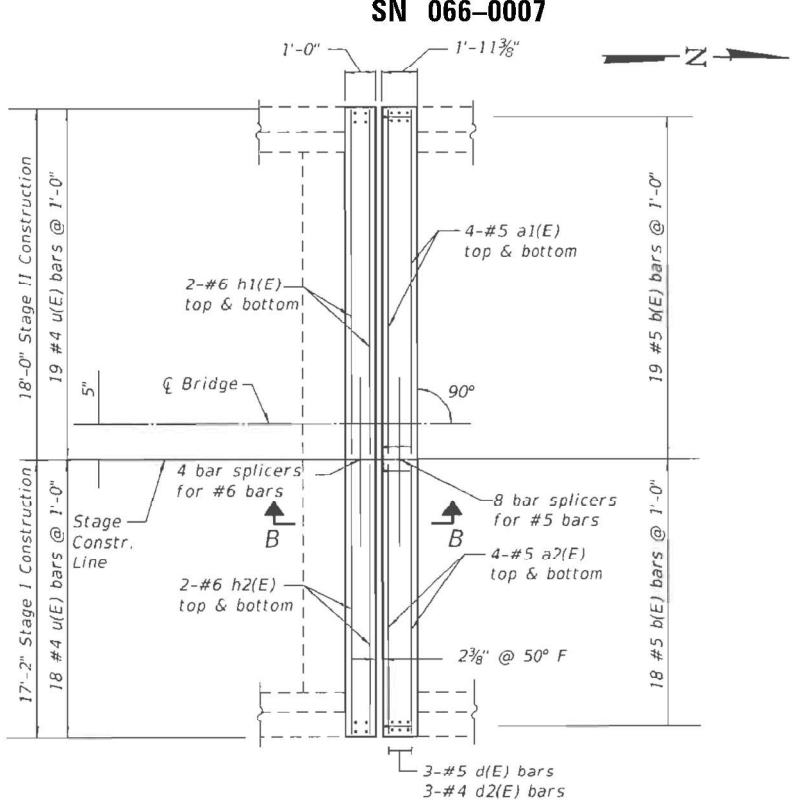
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CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 8 OF 13 SHEETS STA. TO STA.

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007



JOINT REMOVAL PLAN



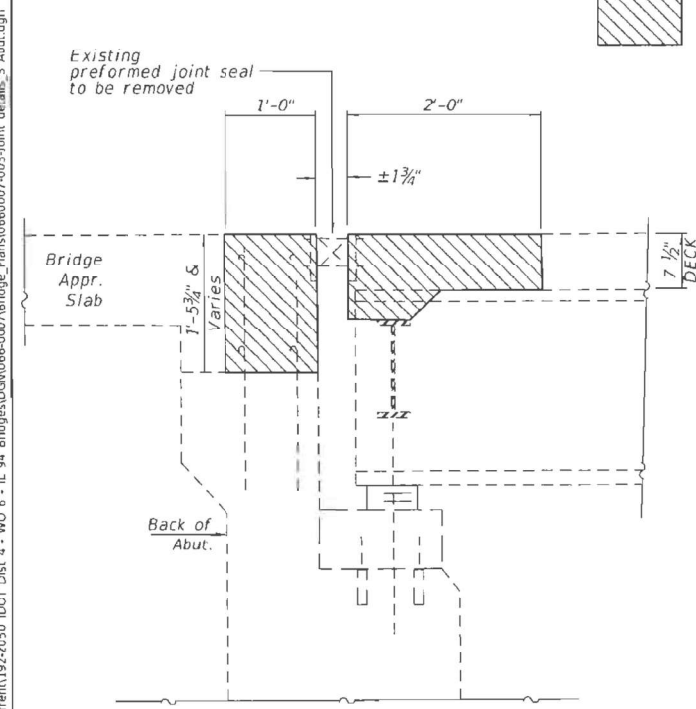
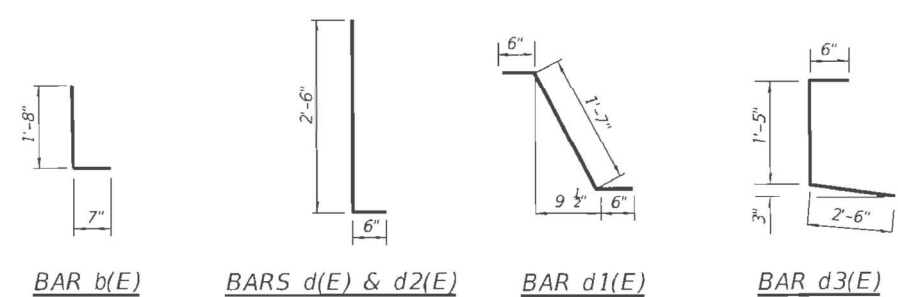
JOINT PLAN

BILL OF MATERIAL
(SOUTH JOINT)

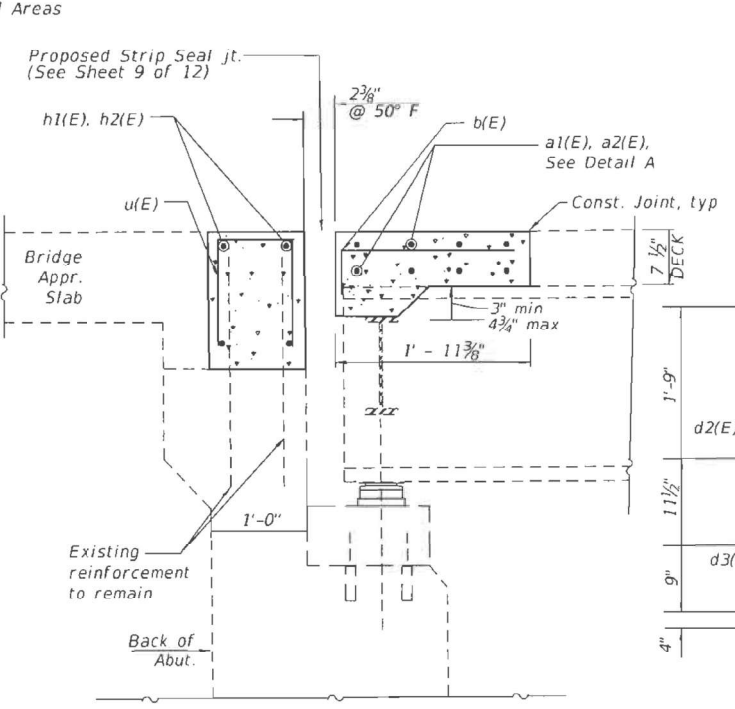
BAR	#	SIZE	LENGTH	SHAPE
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a2(E)	8	#5	16'-10"	
h1(E)	4	#6	17'-8"	
h2(E)	4	#6	16'-10"	
d(E)	8	#5	3'-0"	
d1(E)	10	#5	2'-7"	
d2(E)	8	#4	3'-0"	
d3(E)	10	#4	4'-5"	
b(E)	37	#5	2'-3"	
u(E)	37	#4	2'-9"	
Concrete Removal		Cu. Yd.	4.5	
Concrete Superstructure		Cu. Yd.	4.5	
Reinforcement Bars, Epoxy Coated		Pound	750	

NOTES:

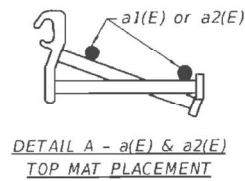
1. Removal of existing expansion joint shall be included in the cost of concrete removal.
2. A 6"X6" Blockout will be permitted in the base of the parapet at the expansion joint in order to facilitate joint seal installation.
3. The contractor shall use extreme care during concrete removal so as not to damage the Wide Flange Steel Beams.
4. In parapet/joint removal areas, existing reinforcement bars shown are to be cleaned and incorporated into new construction.



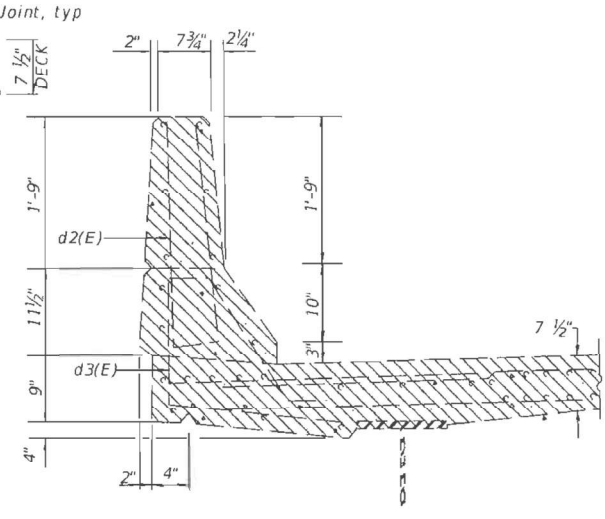
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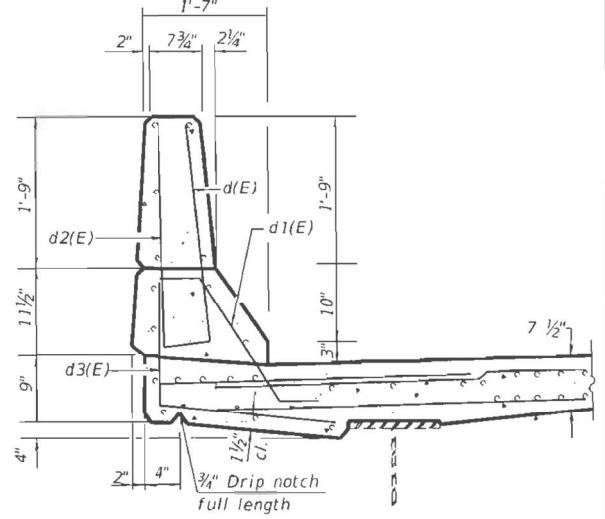
JOINT SECTION B-B



DETAIL A - a1(E) & a2(E) TOP MAT PLACEMENT



PARAPET REMOVAL CROSS SECTION



PARAPET REPLACEMENT CROSS SECTION

HR	Hurst-Rosche, Inc. 1400 E. TREMONT ST. HILLSBORO, IL PH: 217.532.3959 JOB NO. 192-2050	USER NAME = bstambaugh	DESIGNED - CJC	REVISIONS
		PLOT SCALE = 10.0000' / 1"	CHECKED - CMV	REVISIONS
		PLOT DATE = 9/8/2025	DRAWN - UJ	REVISIONS
			CHECKED - CJC	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT DETAILS - SOUTH ABUTMENT
STRUCTURE NO. 066-0007
 SHEET 3 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
220	23(B)BR-1	MERCER	23	12
CONTRACT NO. 68F78				
ILLINOIS FED. AID PROJECT				

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TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES
 IL DESIGN FIRM
 LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISIONS
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISIONS
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISIONS
	DATE - SEPT 2025	REVISIONS

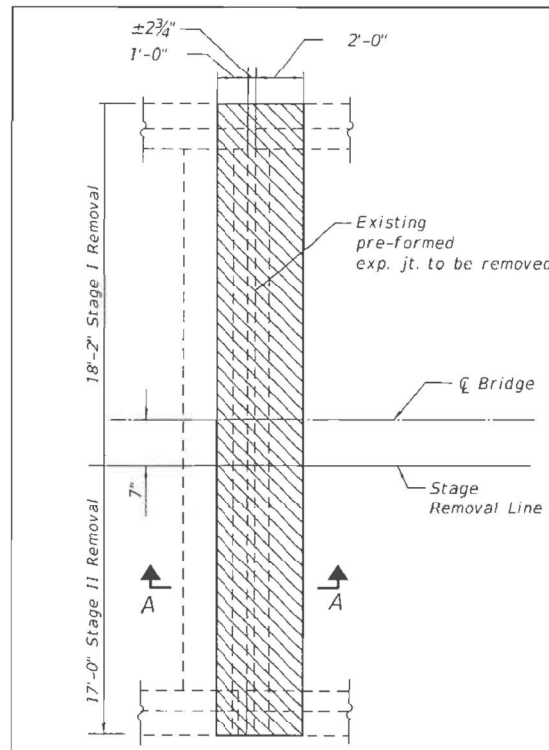
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007
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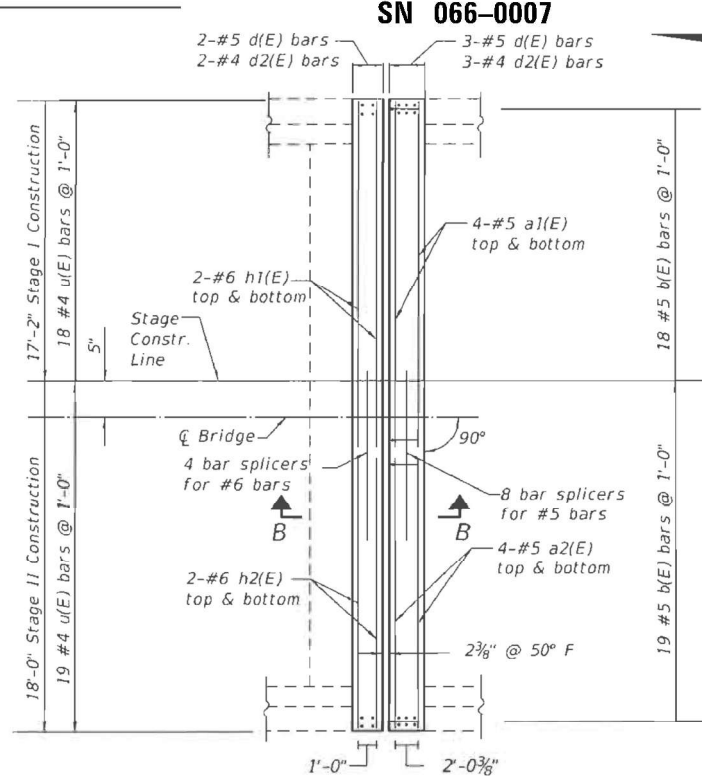
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	77
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)

SN 066-0007



JOINT REMOVAL PLAN

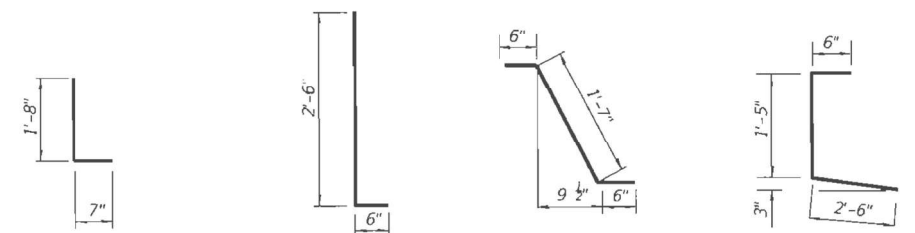


JOINT PLAN

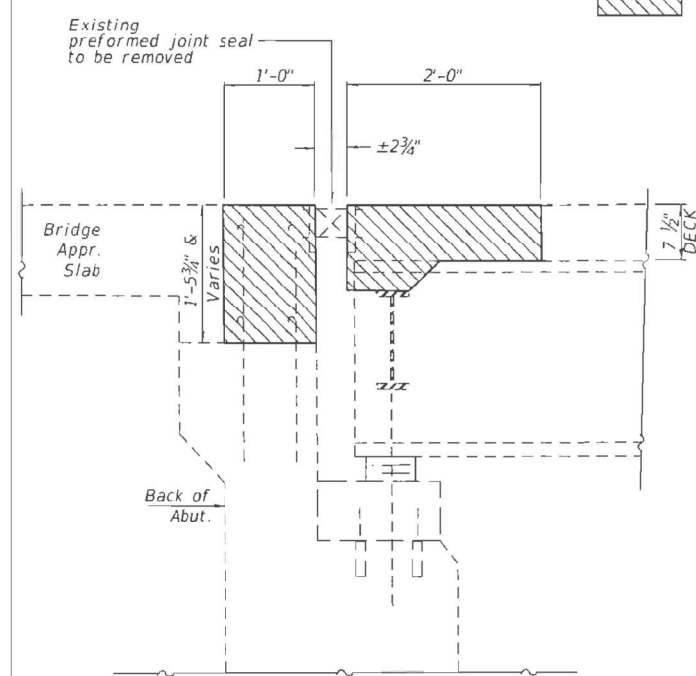
- NOTES:**
1. Removal of existing expansion joint shall be included in the cost of concrete removal.
 2. A 6"X6" Blockout will be permitted in the base of the parapet at the expansion joint in order to facilitate joint seal installation.
 3. The contractor shall use extreme care during concrete removal so as not to damage the Wide Flange Steel Beams.
 4. In parapet/joint removal areas, existing reinforcement bars shown are to be cleaned and incorporated into new construction.

**BILL OF MATERIAL
(NORTH JOINT)**

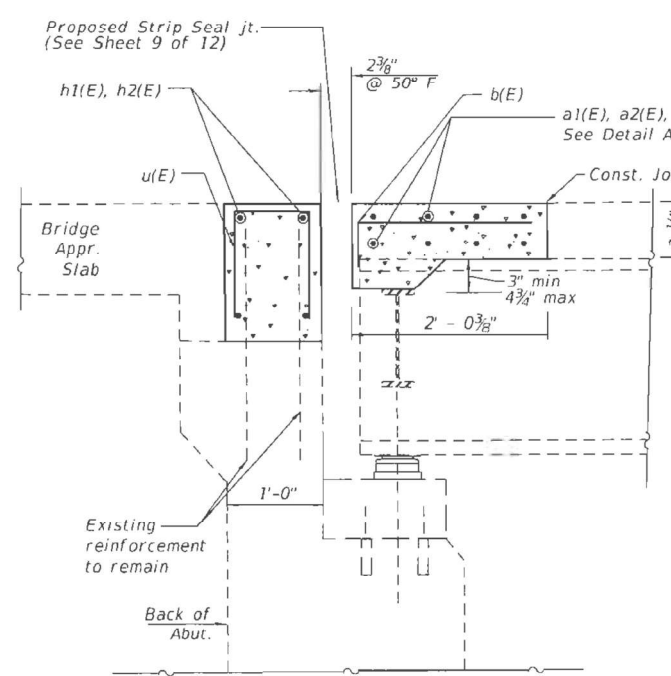
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a1(E)	8	#5	17'-8"	
a2(E)	8	#5	16'-10"	
h1(E)	4	#6	17'-8"	
h2(E)	4	#6	16'-10"	
d(E)	8	#5	3'-0"	
d1(E)	10	#5	2'-7"	
d2(E)	8	#4	3'-0"	
d3(E)	10	#4	4'-5"	
b(E)	37	#5	2'-3"	
u(E)	37	#4	2'-9"	
Concrete Removal			Cu. Yd.	4.6
Concrete Superstructure			Cu. Yd.	4.6
Reinforcement Bars, Epoxy Coated			Pound	760



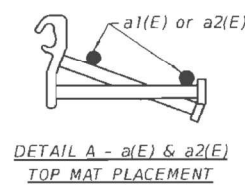
BAR b(E) BARS d(E) & d2(E) BAR d1(E) BAR d3(E)



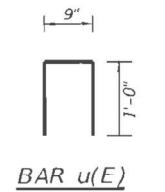
JOINT REMOVAL SECTION A-A



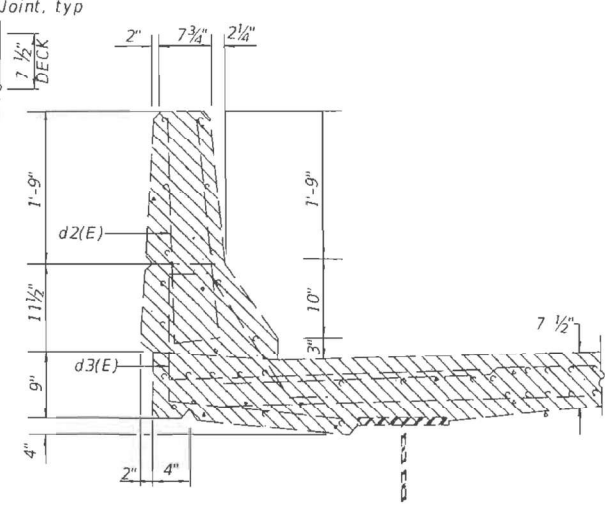
JOINT SECTION B-B



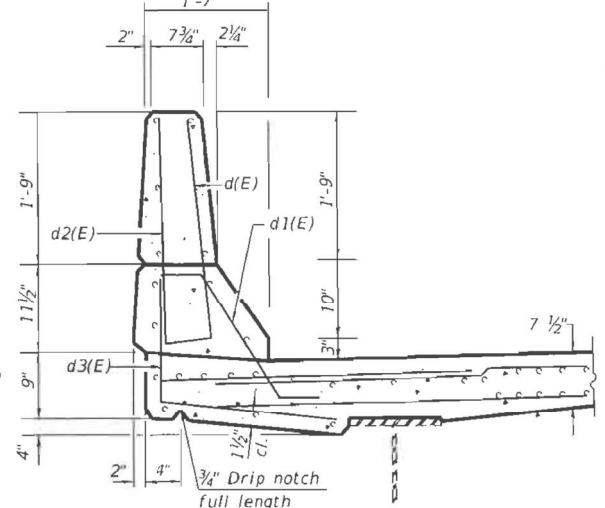
DETAIL A - a(E) & a2(E)
TOP MAT PLACEMENT



BAR u(E)



PARAPET REMOVAL CROSS SECTION



PARAPET REPLACEMENT CROSS SECTION

	Hurst-Rosche, Inc. 1400 E. TREMONT ST. HILLSBORO, IL PH: 217.532.3959 JOB NO. 192-2050	USER NAME = bstambaugh PLOT SCALE = 10.0000' / 1" PLOT DATE = 9/8/2025	DESIGNED - CJC CHECKED - CMV DRAWN - UJ CHECKED - CJC	REVISED - REVISED - REVISED - REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT DETAILS - NORTH ABUTMENT
STRUCTURE NO. 066-0007

SHEET 4 OF 12 SHEETS

F.A.S. RTE. 220	SECTION 23(B)BR-1	COUNTY MERCER	TOTAL SHEETS 23	SHEET NO. 13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68F78	

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TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

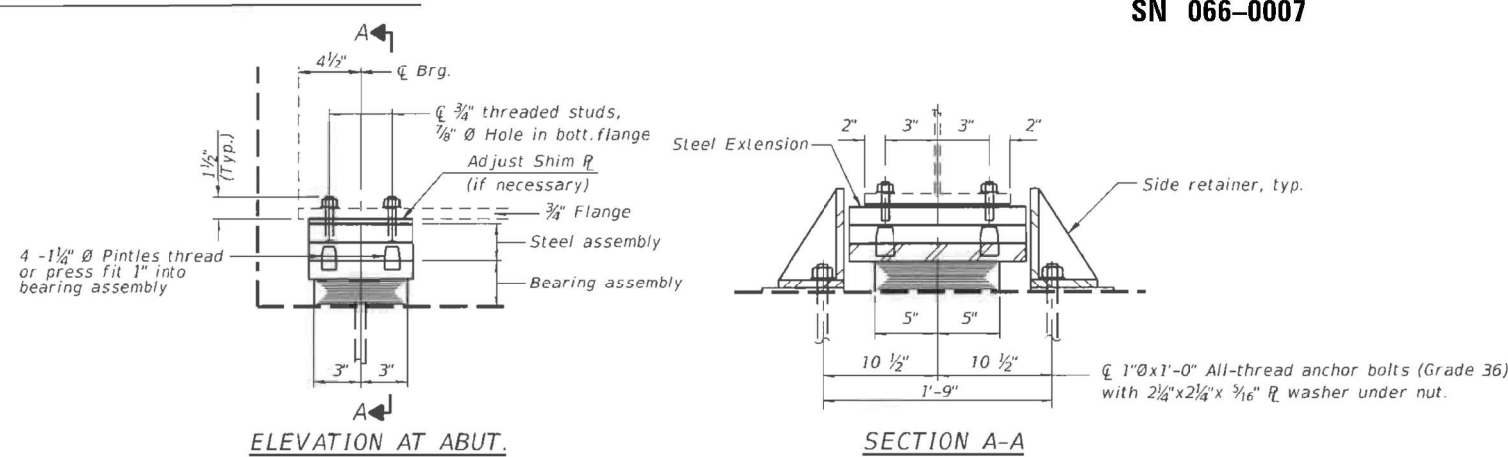
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007

SCALE: N/A SHEET 10 OF 13 SHEETS STA. TO STA.

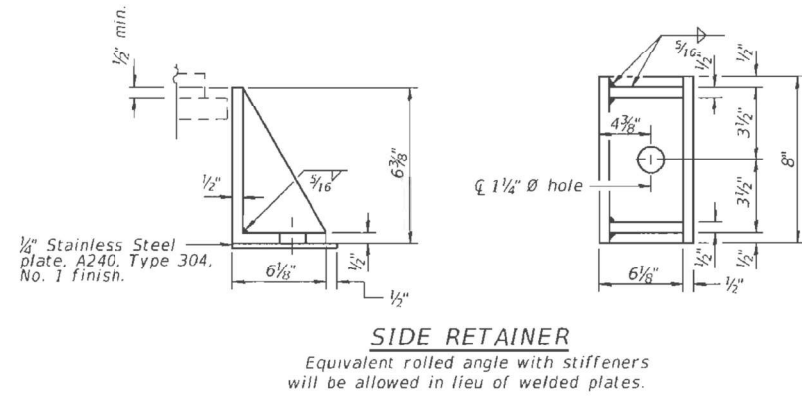
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	78
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68K62	

**FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007**



TYPE I ELASTOMERIC EXP. BRG.

Notes:
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of grades and dimensions 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 Standard Specifications.
 Side retainers and 1/4" stainless steel plates required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
 The minimum jack capacity required is 35 tons.
 Existing diaphragm removal and reinstallation may be required to facilitate drilling holes, cost to be included with Jack and Remove Existing Bearings.
 Prior to ordering any materials, the contractor shall verify in the field all bearings height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. new steel extensions, connection bolts, fill plates and shim plates are included in Furnishing and Erecting Structural Steel.
 Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 All fill plates, shim plates, side retainers, and anchor bolts material shall be hot dip galvanized.



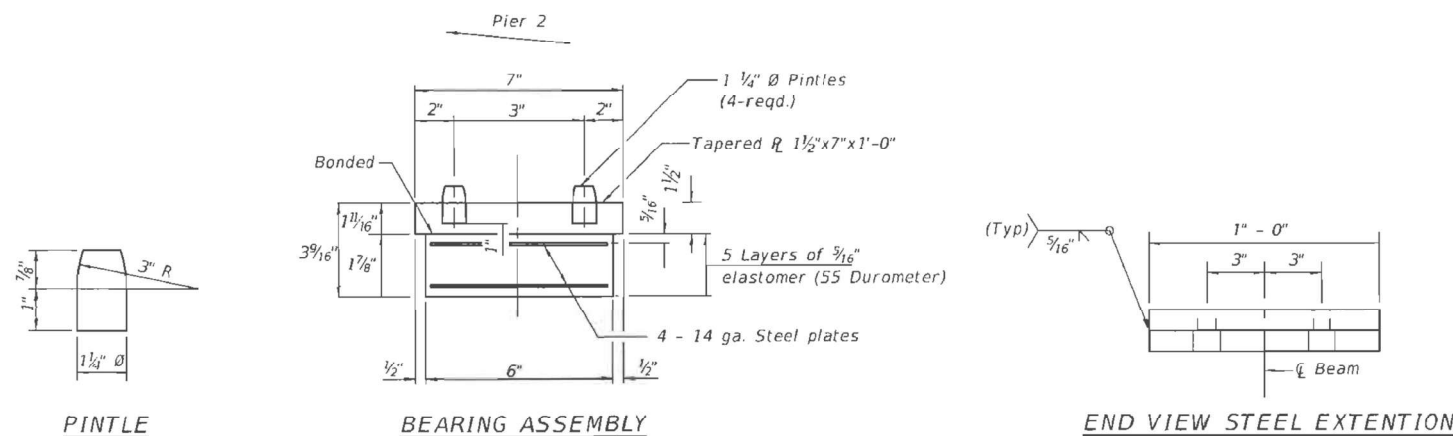
GIRDER REACTIONS

	North Abutment
R _E (k)	14.1
R _L (k)	26.2
Imp. (k)	7.9
R _{Total} (k)	48.2

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	770
Elastomeric Bearing Assembly, Type I	Each	6
Anchor Bolts 1"	Each	12
Jack and Remove Existing Bearings	Each	6

ELEVATION STEEL EXTENSION



END VIEW STEEL EXTENTION

Burn the existing anchor bolts flush with existing concrete surface. Grind concrete surface. Grind concrete surface. Grind and seal with epoxy concrete surface.

EXISTING BEARING REMOVAL DETAIL

Cost is included with jack & remove existing bearings.

Note: Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS - NORTH ABUTMENT
STRUCTURE NO. 066-0007**

SHEET 5 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
220	23(B)R-1	MERCER	23	14

CONTRACT NO. 68F78
ILLINOIS FED. AID PROJECT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007**

SCALE: N/A SHEET 11 OF 13 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	79

CONTRACT NO. 68K62
ILLINOIS FED. AID PROJECT

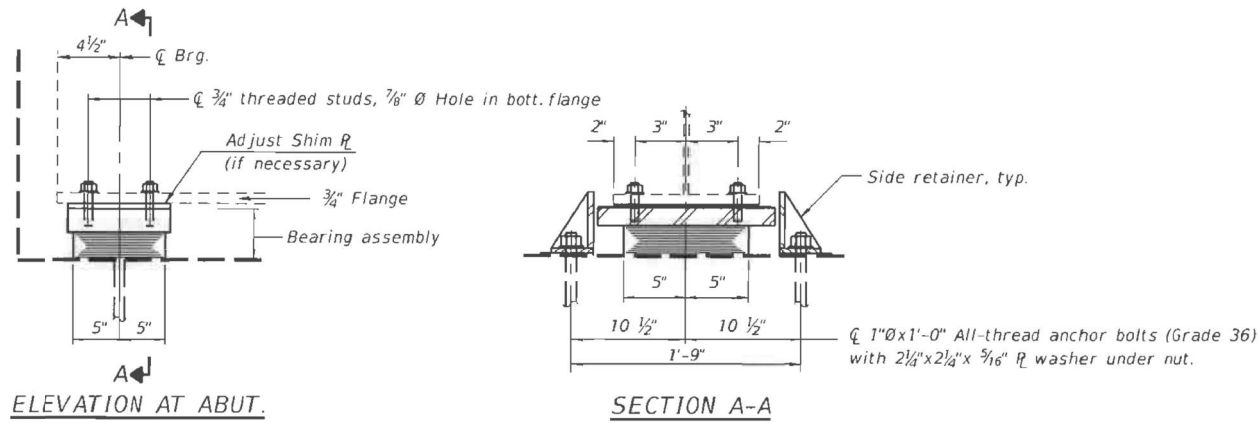
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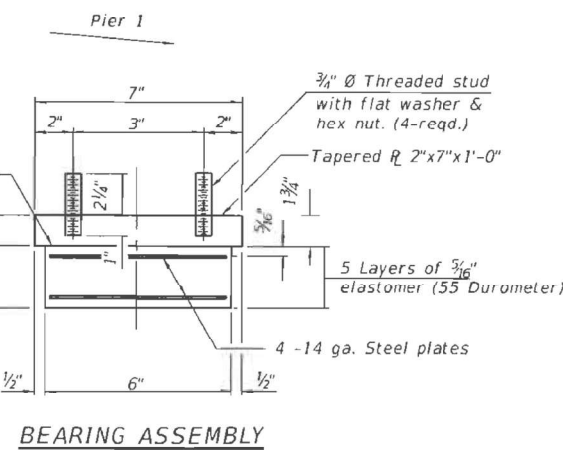
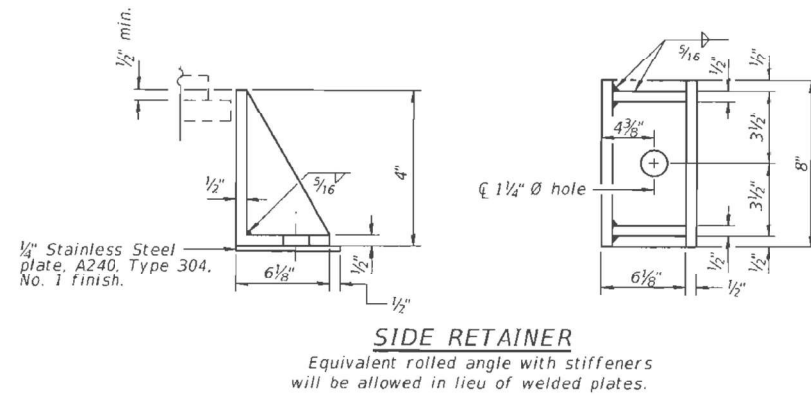
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	DATE -	SEPT 2025	REVISD -	

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**FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007**



TYPE I ELASTOMERIC EXP. BRG.



Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of grades and dimensions 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 Standard Specifications.

Side retainers and $\frac{1}{4}$ " stainless steel plates required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The minimum jack capacity required is 35 tons.

Existing diaphragm removal and reinstallation may be required to facilitate drilling holes, cost to be included with Jack and Remove Existing Bearings.

Prior to ordering any materials, the contractor shall verify in the field all bearings height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. new steel extensions, connection bolts, fill plates and shim plates are included in Furnishing and Erecting Structural Steel.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

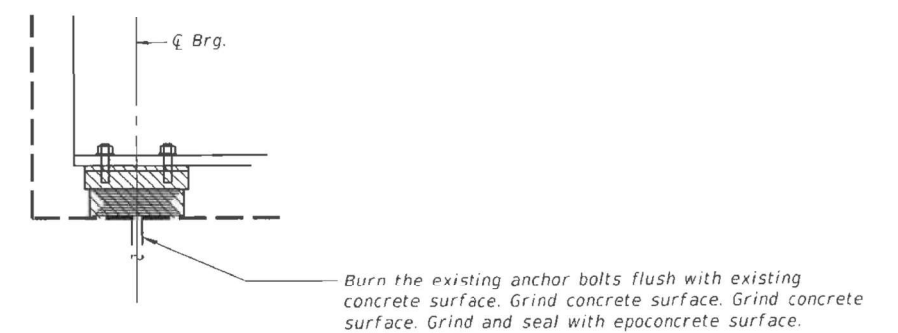
All fill plates, shim plates, side retainers, and anchor bolts material shall be hot dip galvanized.

GIRDER REACTIONS

	South Abutment
R ₂ (k)	14.1
R ₄ (k)	26.2
Imp. (k)	7.9
R _{Total} (k)	48.2

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	80
Elastomeric Bearing Assembly, Type I	Each	6
Anchor Bolts 1"	Each	12
Jack and Remove Existing Bearings	Each	6



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HR Hurst-Rosche, Inc.
1400 E. TREMONT ST.
HILLSBORO, IL
PH: 217.532.3953
JOB NO. 192-2050

USER NAME = bstambaugh	DESIGNED - CJC	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - CV	REVISED -
PLOT DATE = 9/8/2025	DRAWN - UJ	REVISED -
	CHECKED - CJC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS - SOUTH ABUTMENT
STRUCTURE NO. 066-0007**

SHEET 6 OF 12 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
220	23(B)BR-1	MERCER	23	15
CONTRACT NO. 68F78				
ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007**

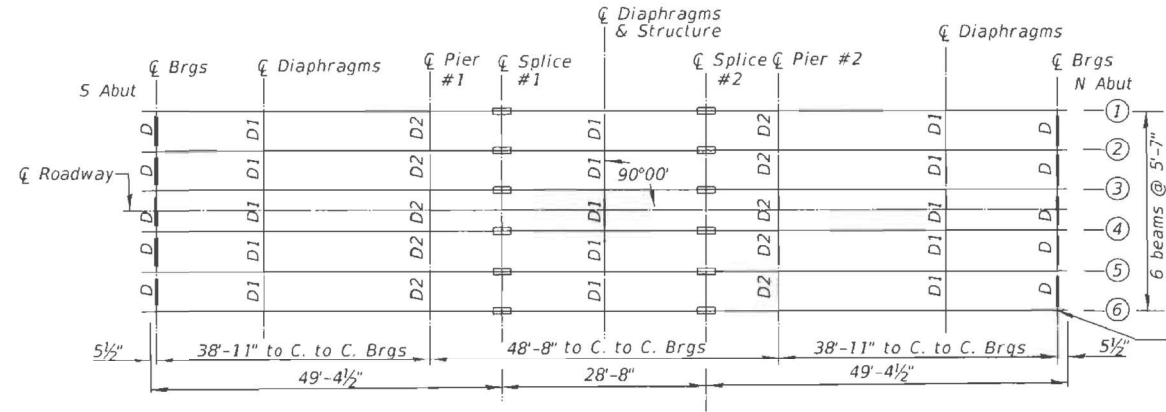
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	80
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

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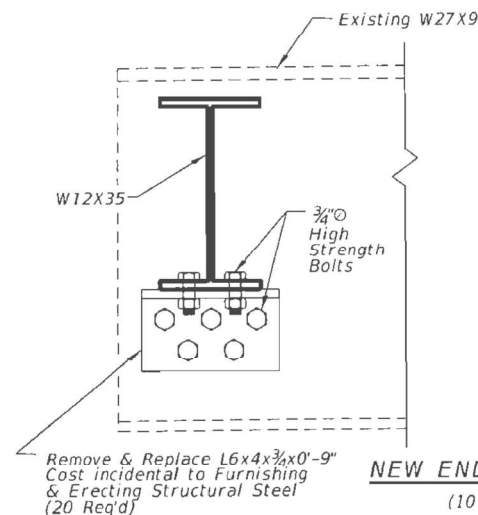
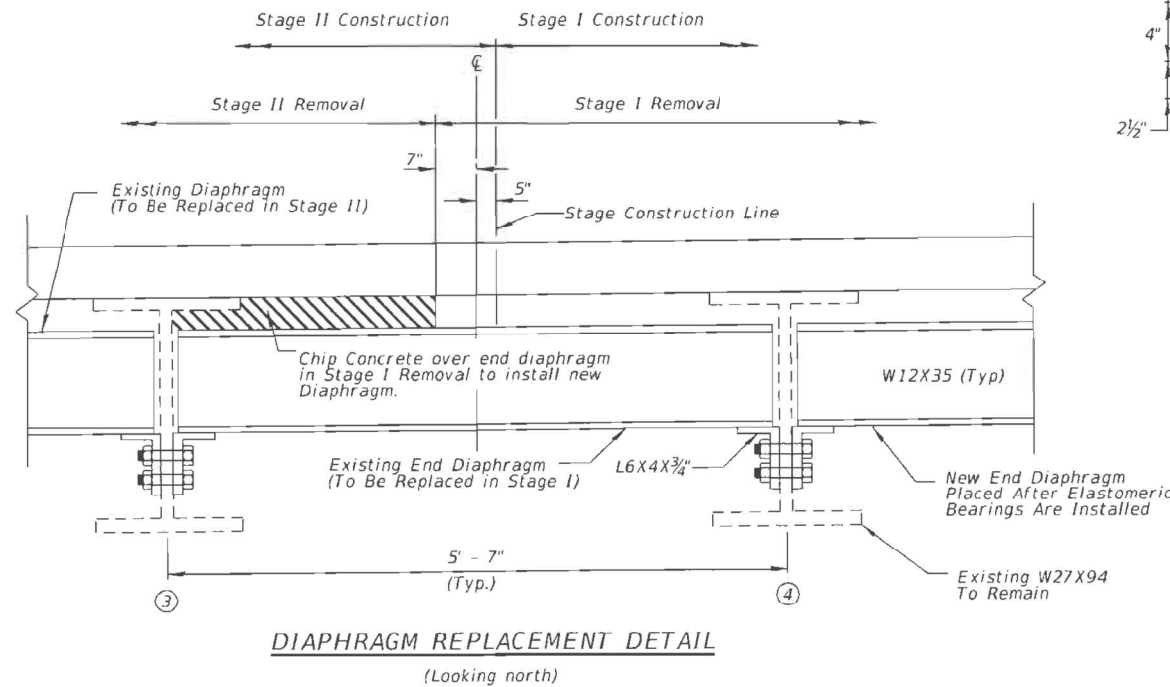
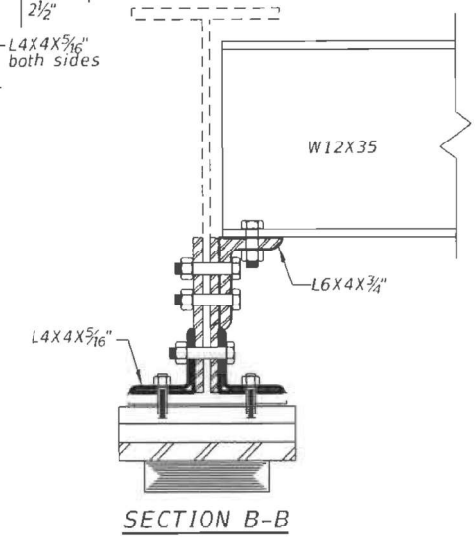
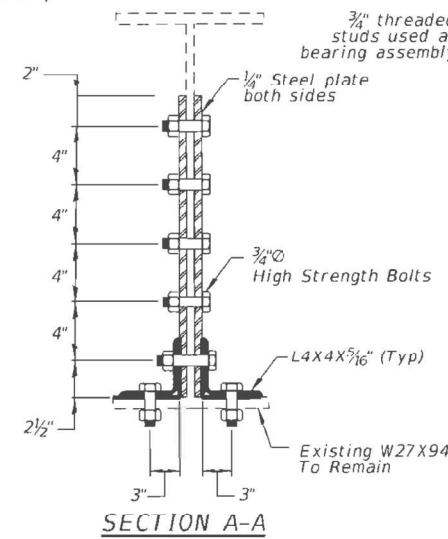
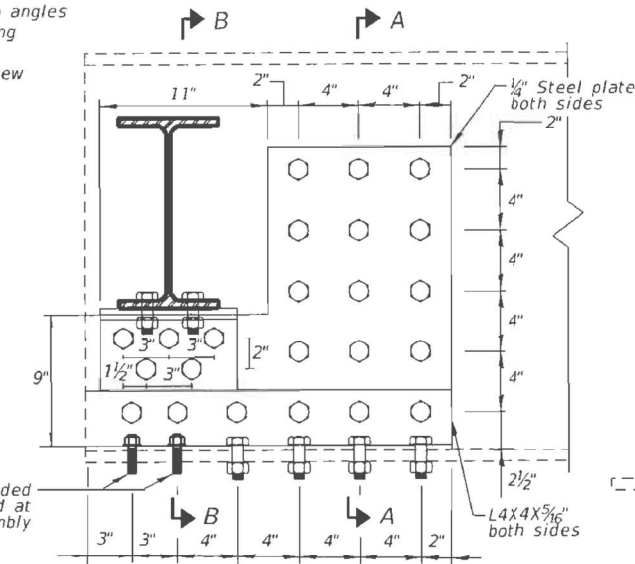
TWM TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

FOR INFORMATION ONLY
LOCATION 6 (IL 94 OVER CAMP CREEK)
SN 066-0007



Notes:
 New steel diaphragm, angles, and new plates for beam repair shall be paid for as Furnishing and Erecting Structural Steel.
 New steel diaphragm, angles, and new plates for beam repair shall be hot dipped galvanized.
 Field drill holes in vertical legs of new clip angles and corresponding holes in the repair plates using existing holes as template.
 Field drill in existing steel using holes in new steel as template at all other locations.

BILL OF MATERIAL		UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound		2,400
Cleaning and Painting Steel Bridge No. 1	L Sum		1



Remove & Replace L6x4x3/4x0'-9" Cost incidental to Furnishing & Erecting Structural Steel (20 Req'd)

	USERNAME = DESIGNED - CJC CHECKED - CV DRAWN - UJ PLOT DATE =	DESIGNED - CJC CHECKED - CV DRAWN - UJ PLOT DATE =	REVISED - REVISED - REVISED - REVISED -	
	USER NAME = bstambaugh TWM, INC. 1400 E. TREMONT ST. HILLSBORO, IL PH: 217-532-3859 JOB NO. 192-2058	DESIGNED - BCS DRAWN - BCS CHECKED - TBP DATE - SEPT 2025	REVISED - REVISED - REVISED - REVISED -	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER/DIAPHRAGM REPAIR
STRUCTURE NO. 066-0007

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
220	23(B)BR-1	MERCER	23	16
CONTRACT NO. 68F78				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6 - STRUCTURE INFORMATION
SN 066-0007

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	81
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

TWM
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 GEOSPATIAL SERVICES

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 LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
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PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
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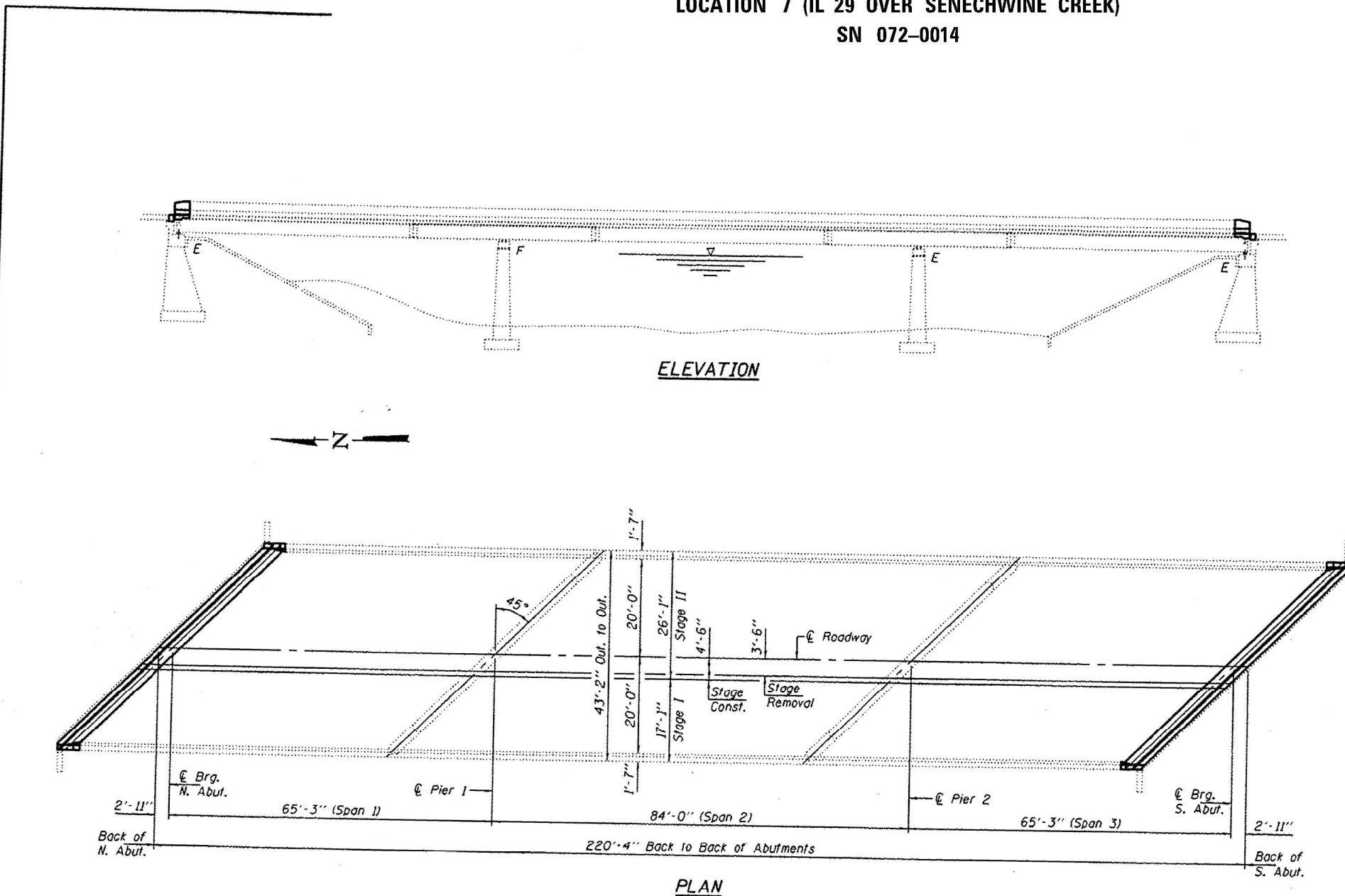
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6/17/2021 8:52:26 AM

FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014



GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

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.

Cost of removal and re-installation of guardrail necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

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.



TOTAL BILL OF MATERIAL

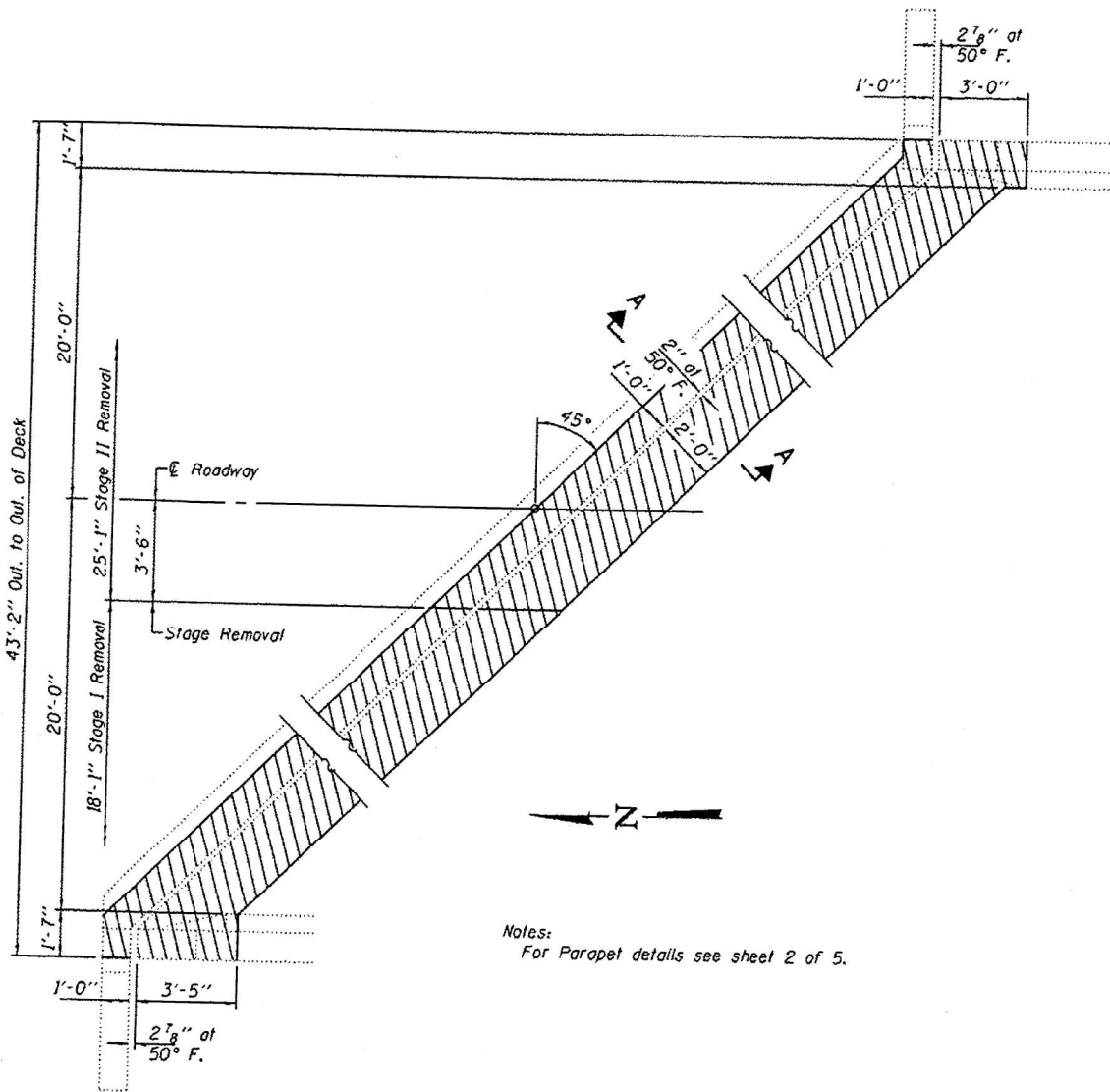
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	14.2
Concrete Superstructure	Cu. Yd.	14.2
Reinforcement Bars, Epoxy Coated	Pound	1840
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	122
Protective Coat	Sq. Yd.	41.9
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* On new concrete only.

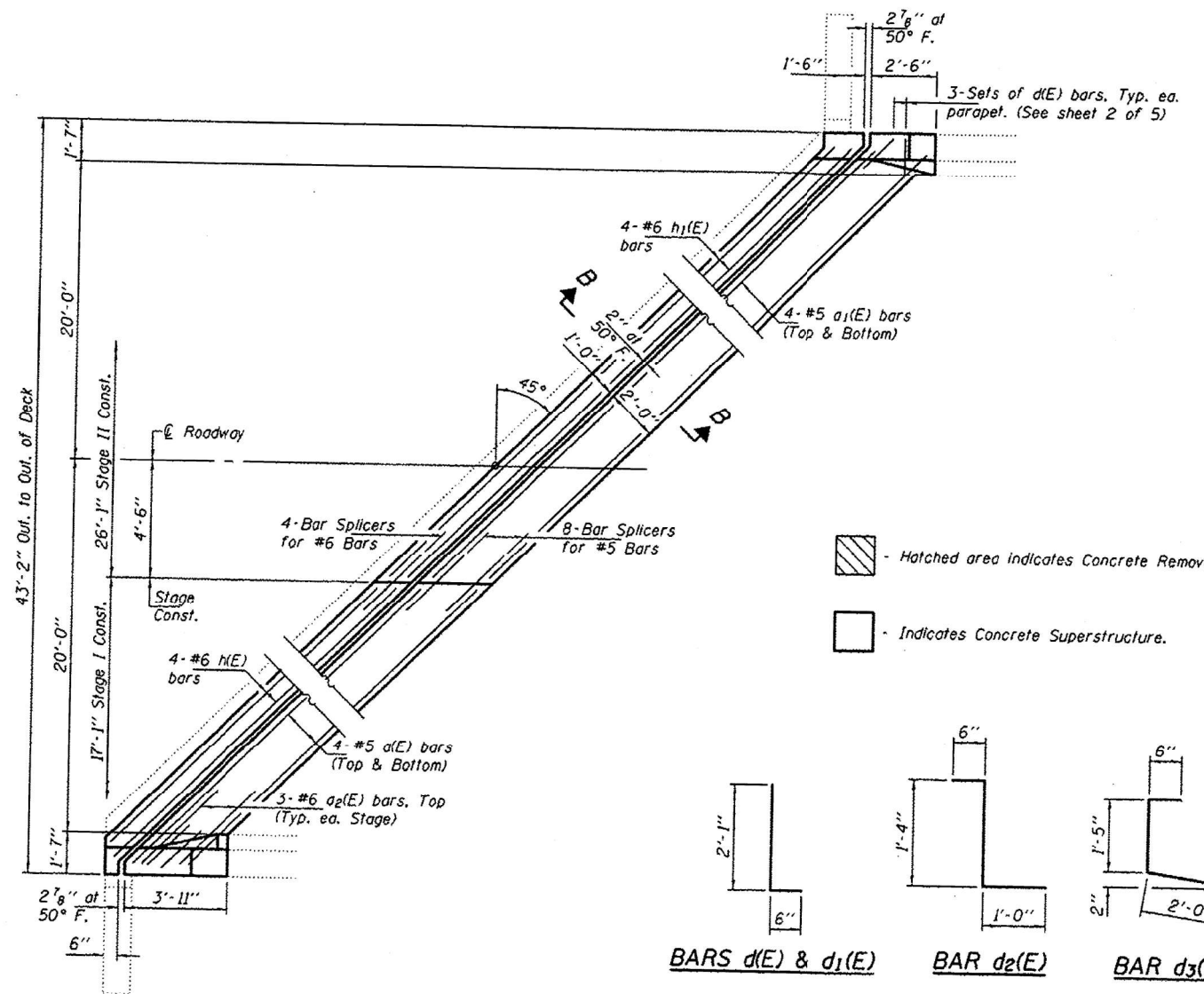
DESIGNED - <i>[Signature]</i> CHECKED - <i>[Signature]</i> DRAWN - <i>[Signature]</i> CHECKED - <i>[Signature]</i>	PASSED <i>[Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	DATE - MAY 5, 2017 REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION ILLINOIS ROUTE 29 OVER SENECHWINE CREEK SN 072-0014 SHEET NO. 1 OF 5 SHEETS	F.A.P. RTE. 31B SECTION 148.5B1B1R COUNTY PEORIA TOTAL SHEETS 25 SHEET NO. 18 CONTRACT NO. 68064
TWM ENGINEERING GEOSPATIAL SERVICES TWM, INC. www.twm-inc.com IL DESIGN FIRM LICENSE NO. 184-001220	USER NAME = bstambaugh DESIGNED - BCS DRAWN - BCS CHECKED - TBP DATE - SEPT 2025	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 7 - STRUCTURE INFORMATION SN 072-0014 SCALE: N/A SHEET 1 OF 10 SHEETS STA. TO STA.	F.A. RTE. VAR D4 BRIDGE PAINTING 2026 COUNTY ILLINOIS COUNTY FED. AID PROJECT

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FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

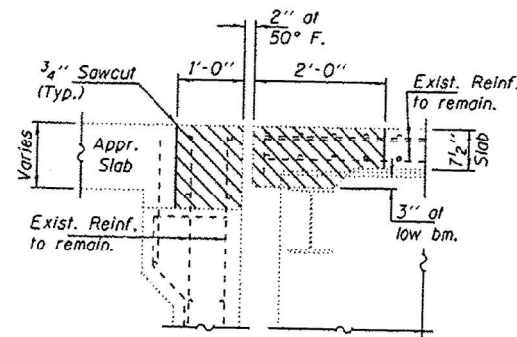
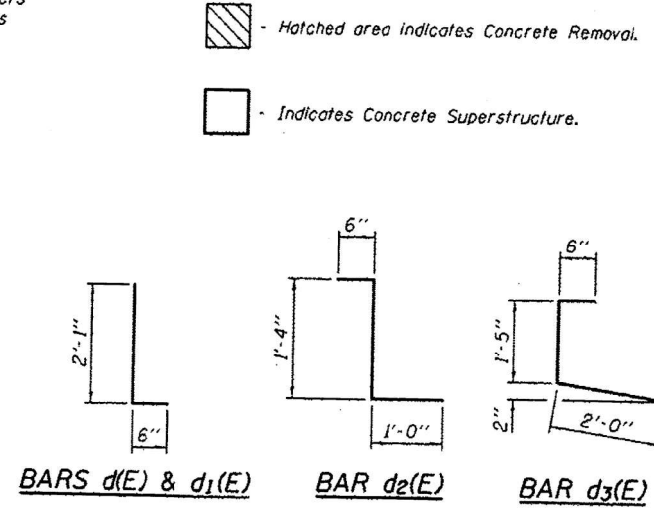


CONCRETE REMOVAL PLAN
 (N. Abut. shown; S. Abut. similar.)

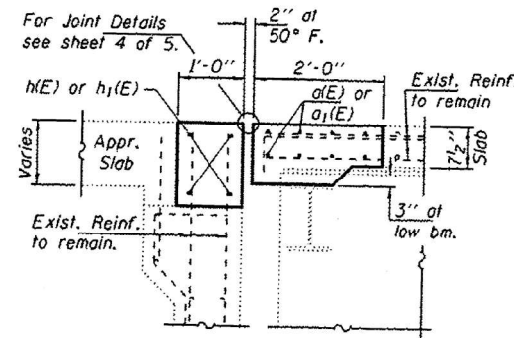


CONCRETE REPLACEMENT PLAN
 (N. Abut. shown; S. Abut. similar.)

Notes:
 For Parapet details see sheet 2 of 5.



SECTION A-A
 Dims. of Rt. L's



SECTION B-B
 Dims. of Rt. L's

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	16	#5	22'-10"	—
a1(E)	16	#5	34'-8"	—
az(E)	12	#6	4'-0"	—
d(E)	12	#5	2'-7"	L
d1(E)	12	#4	2'-7"	L
d2(E)	12	#5	2'-10"	L
d3(E)	12	#4	3'-11"	L
h(E)	8	#6	22'-10"	—
h1(E)	8	#6	34'-8"	—
Concrete Removal		Cu. Yd.	14.2	
Concrete Superstructure		Cu. Yd.	14.2	
Bar Splicers		Each	24	
Reinforcement Bars, Epoxy Coated		Pound	1840	

DESIGNED - SMR	PASSED		DATE - MAY 5, 2017
CHECKED - NRM			REVISED
DRAWN - Kyle M. Steffen			REVISED
CHECKED - SMR			REVISED

ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS
 SN 072-0014

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	14B.5B18JR	PEORIA	25	20

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLGT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLGT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 7 - STRUCTURE INFORMATION
 SN 072-0014

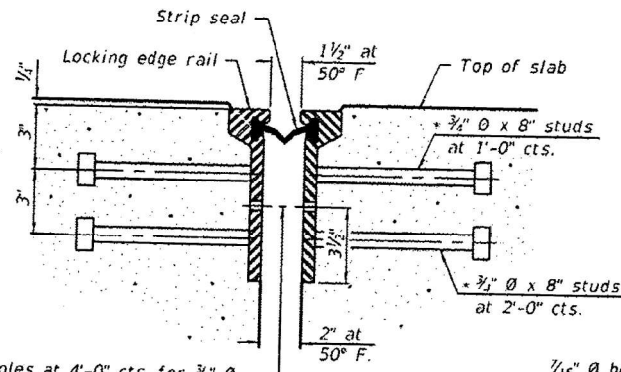
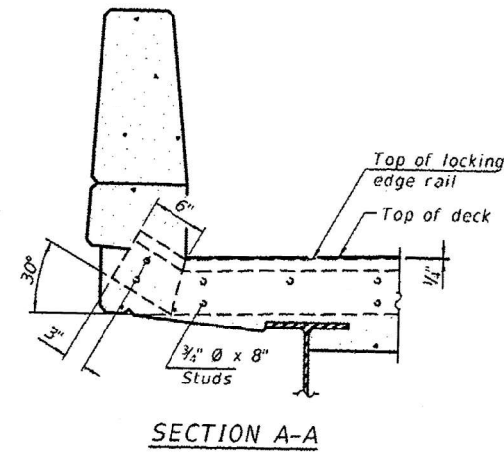
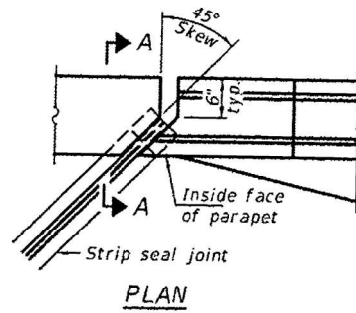
SCALE: N/A SHEET 2 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	83

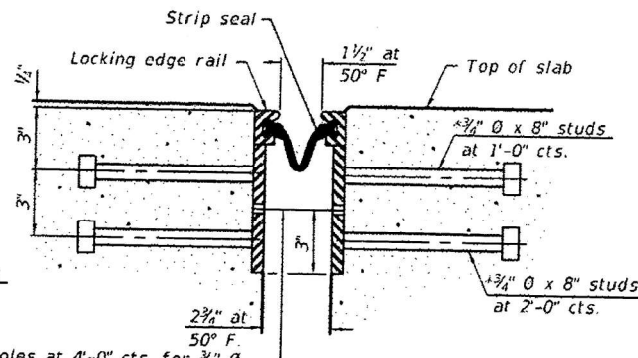
CONTRACT NO. 68K62
 ILLINOIS FED. AID PROJECT

MODEL: D:\4111... FILE NAME: P:\2025\232098\227 - Bridge Painting (FY 2026)\IL_CADD - DWG\4.7_TrafficCADD_Sheets\46862-2tr-structural.ctb 05/05/2017

FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

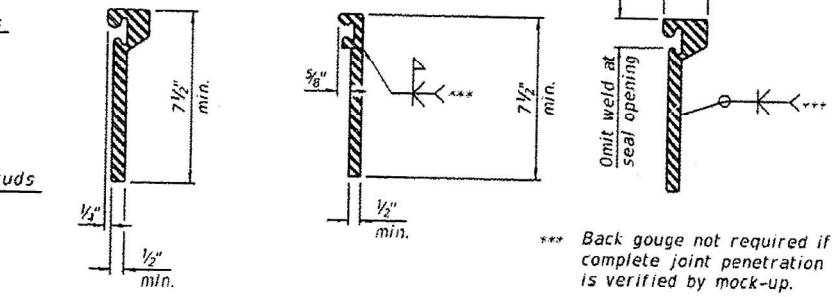


1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



1/16" Ø holes at 4'-0" cts. for 3/8" Ø bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



*** Back gouge not required if complete joint penetration is verified by mock-up.

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	122

DESIGNED - SMR	PASSED
CHECKED - NRM	
DRAWN - Kyle M. Steffen	
CHECKED - SMR	

DATE - MAY 5, 2017
 ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
SN 072-0014

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	148,581B,R	PEORIA	25	21



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 7 - STRUCTURE INFORMATION
SN 072-0014

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	84

CONTRACT NO. 68K62
 ILLINOIS FED. AID PROJECT

MODEL: D:\4\11... FILE NAME: P:\2023\230804227 - Bridge Painting (FY 2026) IL CADD - DWG\4.7 TrainCADD_Sheet\03\468K62-struct\structural.ctb 05/05/2017

FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

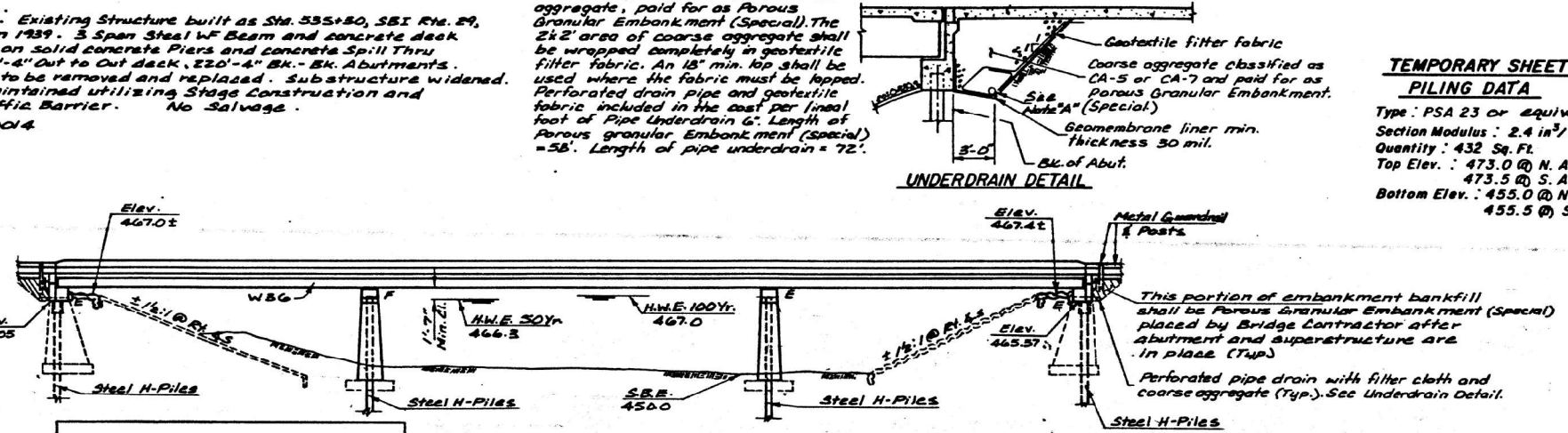
B.M. #51 "D" N.E. Abutment SENECHWINE CK. Bridge
 16' Lt. Sta. 1534+50
 Elev. 472.12

EXISTING STRUCTURE: Existing Structure built as Sta. 535+80, SBI Rte. 29, Peoria County in 1939. 3 Span Steel W/ Beam and concrete deck superstructure on solid concrete Piers and concrete Spill Thru Abutments. 52'-4" Out to Out deck, 230'-4" BK.-BK. Abutments. Superstructure to be removed and replaced. Substructure widened. Traffic to be maintained utilizing Stage Construction and Temporary Traffic Barrier. No Salvage. Str. No. 072-0014.

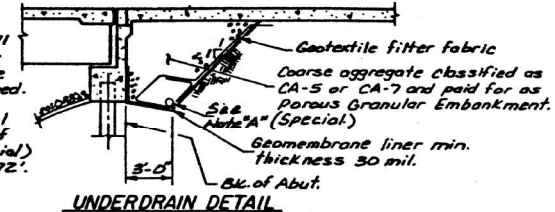
NOTE:"A" A 6" perforated drain pipe shall be situated at the bottom of an approximate 2k2' area of CA-5 or CA-7 coarse aggregate, paid for as Porous Granular Embankment (Special). The 2k2' area of coarse aggregate shall be wrapped completely in geotextile filter fabric. An 18" min. lap shall be used where the fabric must be lapped. Perforated drain pipe and geotextile fabric included in the cost per linear foot of Pipe Underdrain 6". Length of Porous granular Embankment (Special) = 58'. Length of pipe underdrain = 72'.

PROJECT NO.	CONTRACT NO.	TOTAL SHEETS	SHEET NO.
111.29	* PEORIA	223	114

* (5B)I-2

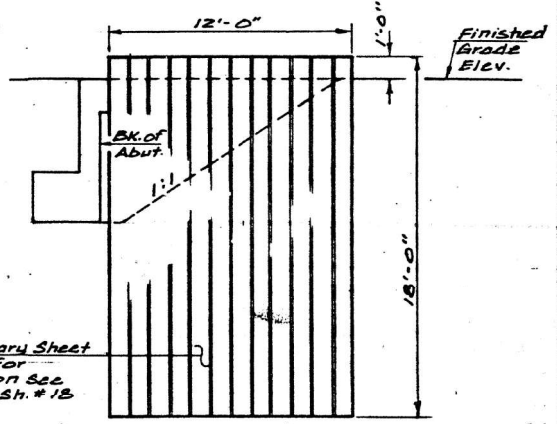


ELEVATION



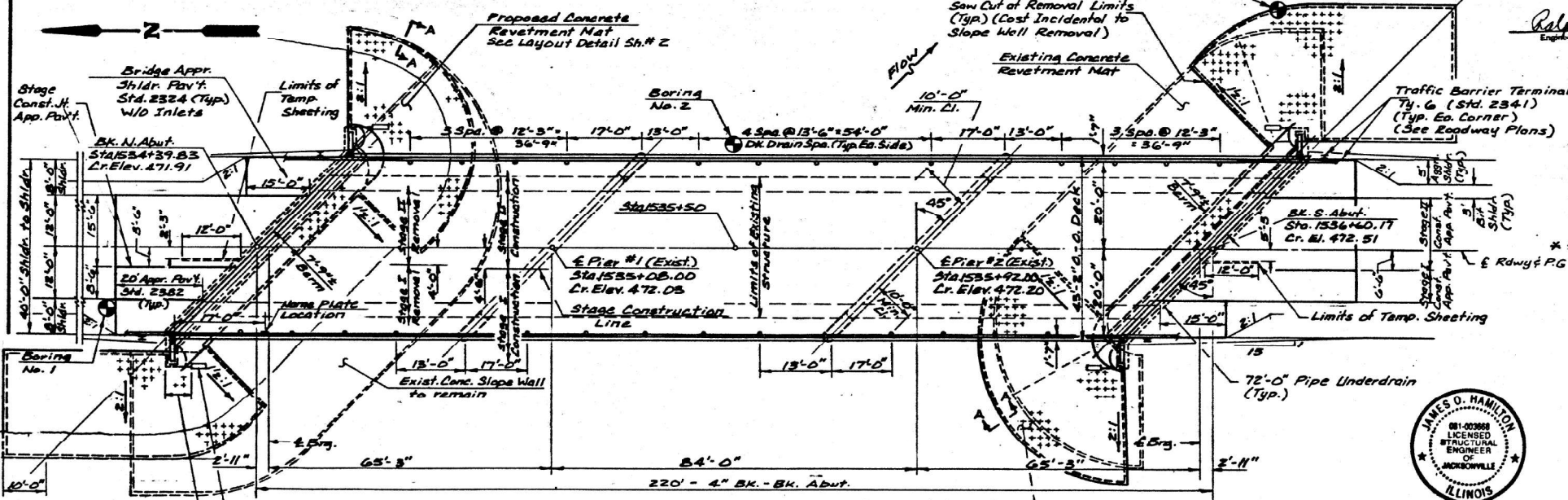
UNDERDRAIN DETAIL

TEMPORARY SHEET PILING DATA
 Type: PSA 23 or equivalent
 Section Modulus: 2.4 in³/ft.
 Quantity: 432 Sq. Ft.
 Top Elev.: 473.0 @ N. Abut.
 473.5 @ S. Abut.
 Bottom Elev.: 455.0 @ N. Abut.
 455.5 @ S. Abut.



DETAIL OF TEMPORARY SHEET PILING

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
 Engineer of Bridges and Structures



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		121	121
Floor Drains	Each	26		26
Protective Coat	Sq. Yd.	1,145		1,145
Class X Concrete	Cu. Yd.		116.5	116.5
Class X Concrete Superstructure	Cu. Yd.	280.5		280.5
Removal of Existing Superstructure	Each	1		1
Concrete Removal	Cu. Yd.		62.2	62.2
Class X Concrete Encasement	Cu. Yd.		1.2	1.2
Temporary Concrete Barrier	Lin. Ft.	220		220
Reinforcement Bars (Epoxy Coated)	Lbs.	63,230	10,450	73,680
Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	3,360		3,360
Steel Piles HP 10x42	Lin. Ft.		500	500
Test Pile Steel HP 10x42	Each		2	2
Name Plates	Each	1		1
Concrete Revetment Mat	Sq. Yd.		233	233
Neoprene Expansion Joint 2"	Lin. Ft.	119		119
Elastomeric Bearing Assembly, Type I	Each	14		14
Elastomeric Bearing Assembly, Type II	Each	7		7
Slope Wall Removal	Sq. Yd.		130	130
Bridge Seat Sealer	L.S.		0.45	0.45
Porous Granular Embankment (Special)	Cu. Yd.		169	169
Temporary Sheet Piling	Sq. Ft.		432	432
Temporary Support System	L.S.		1	1
Expansion Bolts 3/4" x 12"	Each		100	100
Pipe Underdrain 6" (Special)	Lin. Ft.		24	24
Pipe Underdrain 6"	Lin. Ft.		14.4	14.4
Concrete Headwall for Pipe Drains	Each		4	4

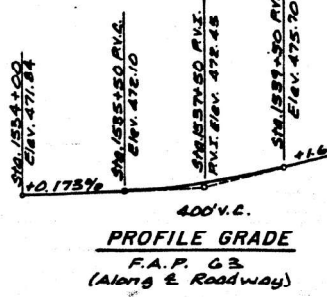
* Applied to deck surface, inside face and top of the concrete parapet.
 ** For bridge only. (See Roadway Plans)

WATERWAY INFORMATION

Drainage Area	97.7 Sq. Mi.	Low Grade Elev.	470.52 @ Sta. 1525+00
Flood	Yr.	C.F.S.	Opening Sq. Ft.
Design	50	12,560	1576
Base	100	14,360	1684
Overtopping	400	17,800	1890

STATION 1535+50.00
 REBUILT 199 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 63 SEC. (5B)I-2
 F.A. PROJ. F-318(1)
 LOADING HS20
 STR. NO. 072-0014

NAME PLATES
 See Std. 2113



PROFILE GRADE
 F.A.P. G 3
 (Along E. Roadway)

DESIGN STRESSES

f₁₂ = 3,500 P.S.I.
 f_y = 60,000 P.S.I. (REINF.)
 f_y = 36,000 P.S.I. (STRUCTURAL-MIBS)

DESIGN SPECIFICATIONS
 1989 AASHTO and Interims

LOADING HS20 (NEW CONSTRUCTION)
 Allow 250/Sq. Ft. for future Wearing Surface



LOCATION SKETCH

GENERAL PLAN
F.A.P. 63 OVER SENECHWINE CREEK
SECTION (5B)I-2
PEORIA COUNTY
STATION 1535+50
STR. NO. 072-0014

Caster Houser & Hutchison, Inc., Jacksonville Ill.



USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000" = 1 ft.	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/8/2025	CHECKED	- TBP	REVISED	-
		DATE	- SEPT 2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

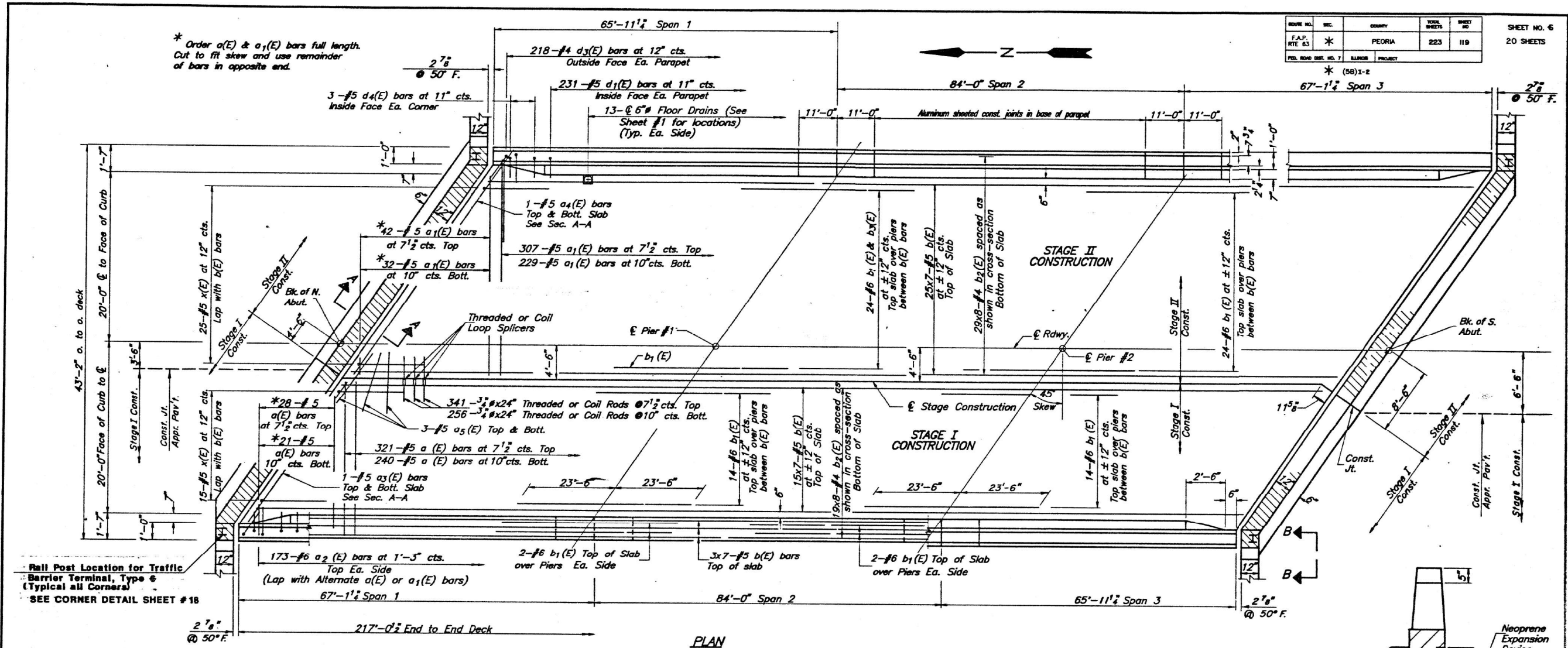
LOCATION 7 - STRUCTURE INFORMATION
SN 072-0014

SCALE: N/A SHEET 4 OF 10 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	85
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

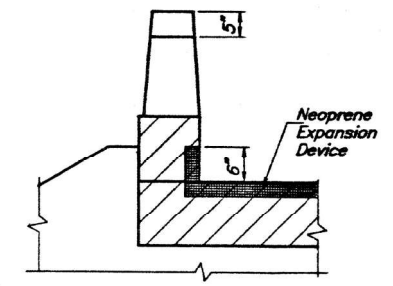
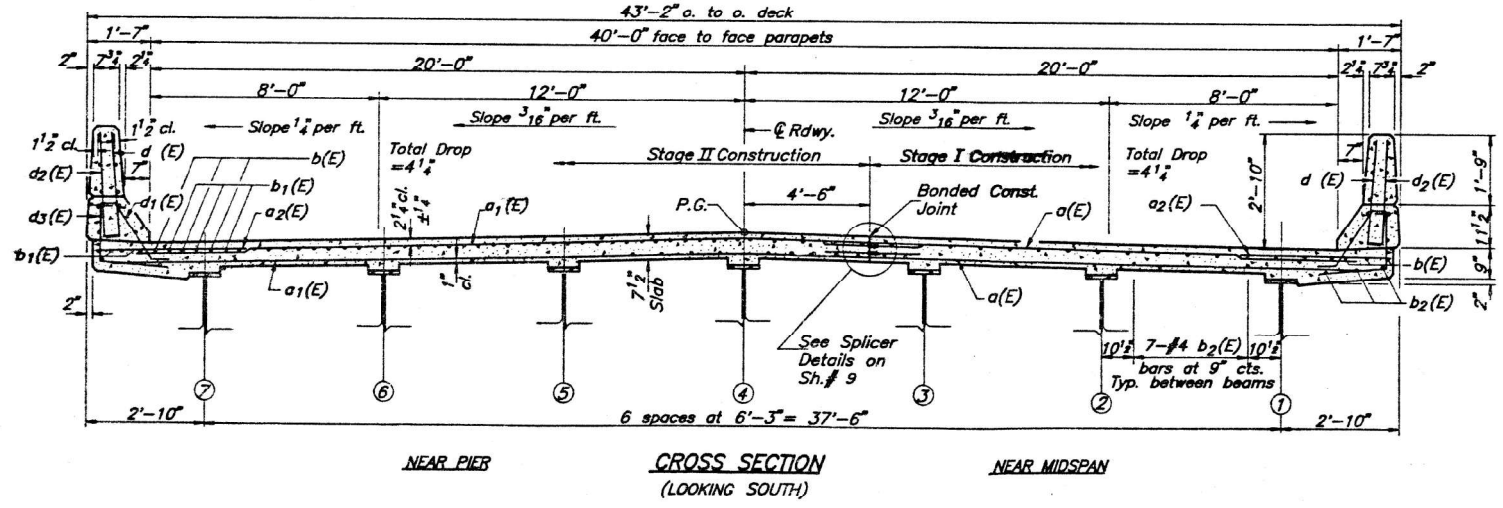
FIGURE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 63	*	PEORIA	223	119
* (5B)I-2				
FIG. NO. SHEET NO.	BLANK	PROJECT		



• Rail Post Location for Traffic Barrier Terminal, Type 6 (Typical all Corners)
 • SEE CORNER DETAIL SHEET # 18

Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.

MIN. BAR LAP
 #4 Bars = 1'-0"
 #5 Bars = 2'-0"
 #6 Bars = 2'-7"



NOTES:
 See sheet # 7 of 20 for parapet details and Bill of Material.
 See sheet # 7 for Section A-A
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 Use double the ties for reinforcement bars at the Stage Construction Joint.

SUPERSTRUCTURE
F.A.P. RT. 63 SECTION (5B)I-2
PEORIA COUNTY
STATION 15.35+50.00
SN 072-0014

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TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

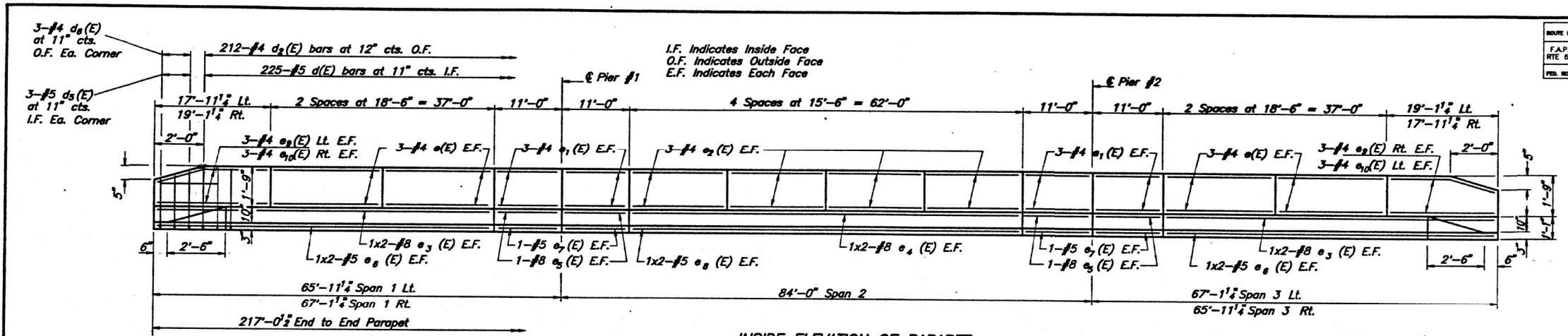
LOCATION 7 - STRUCTURE INFORMATION			
SN 072-0014			
SCALE: N/A	SHEET 5	OF 10 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	86
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68K62	

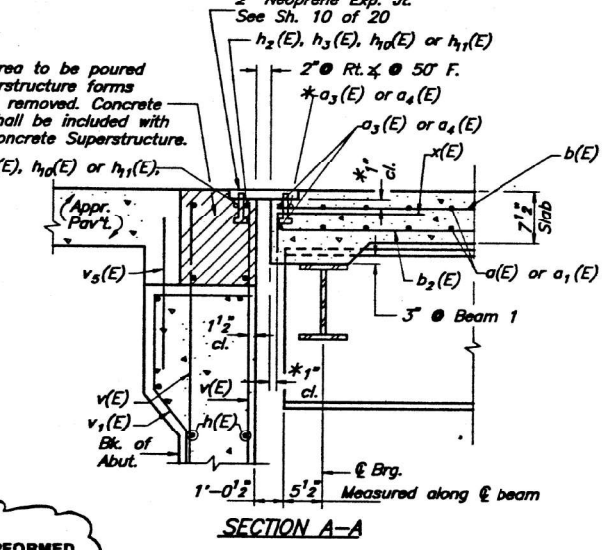
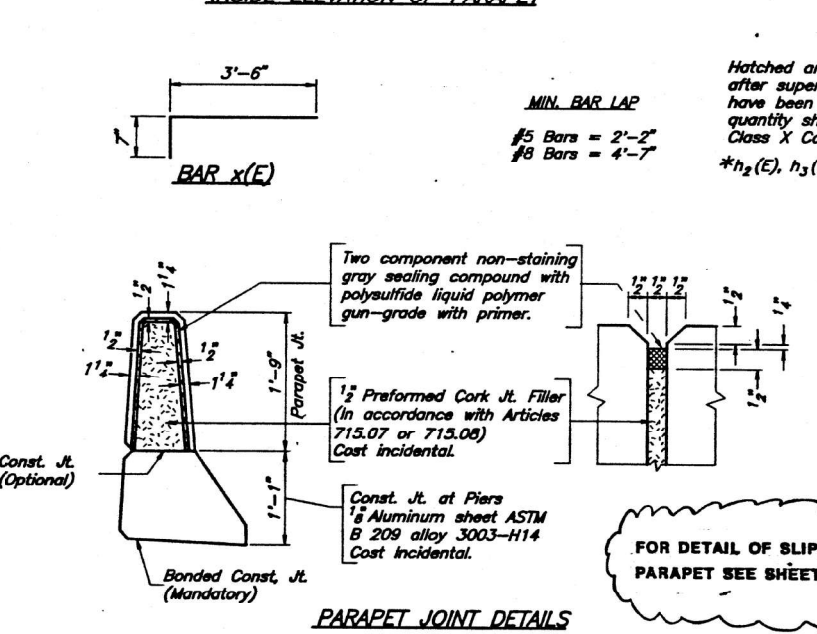
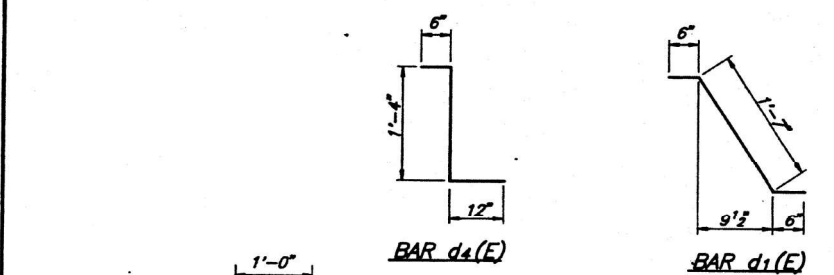
FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

DATE REC.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RITE 63	*	PEORIA	223	120
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

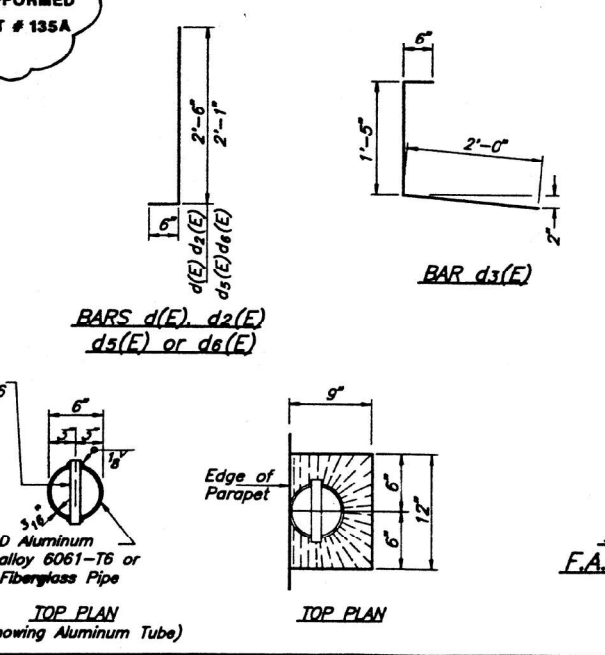
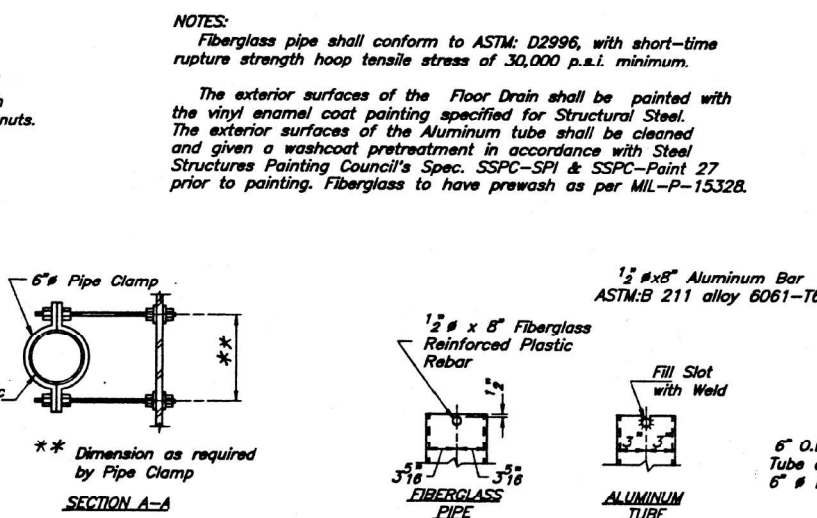
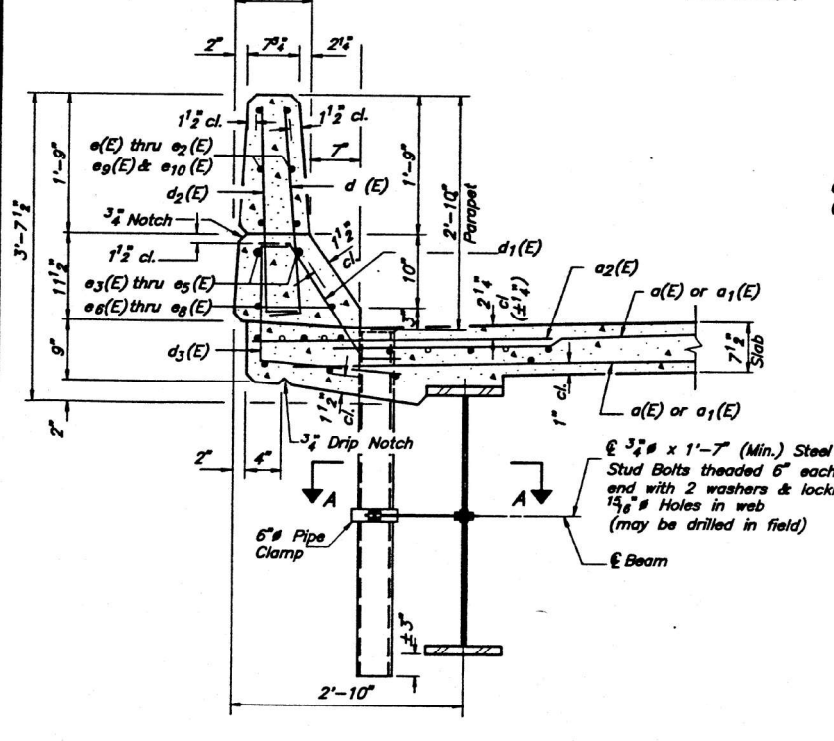
SHEET NO. 7
20 SHEETS



* Place $a_3(E)$ or $a_4(E)$ & $h_2(E)$, $h_3(E)$, $h_4(E)$ or $h_{11}(E)$ bars in back of anchor bolts as shown if required to maintain 1" cl. (+0, -1/8"). Anchor bolts should be tied above referenced bars.



BILL OF MATERIAL				
BAR NO.	SIZE	LENGTH	SHAPE	
$a_1(E)$	#5	16'-3"		
$a_2(E)$	#5	25'-3"		
$a_3(E)$	#5	4'-0"		
$a_4(E)$	#5	22'-9"		
$a_5(E)$	#5	35'-6"		
$a_6(E)$	#5	3'-6"		
$b_1(E)$	#5	32'-10"		
$b_2(E)$	#6	47'-0"		
$b_3(E)$	#4	28'-7"		
$d_1(E)$	#5	3'-0"		
$d_2(E)$	#5	2'-7"		
$d_3(E)$	#4	3'-0"		
$d_4(E)$	#4	3'-11"		
$d_5(E)$	#5	2'-10"		
$d_6(E)$	#5	2'-7"		
$d_7(E)$	#4	2'-7"		
$e_1(E)$	#4	18'-3"		
$e_2(E)$	#4	10'-9"		
$e_3(E)$	#4	15'-3"		
$e_4(E)$	#8	30'-3"		
$e_5(E)$	#8	33'-3"		
$e_6(E)$	#8	10'-9"		
$e_7(E)$	#5	29'-0"		
$e_8(E)$	#5	10'-9"		
$e_9(E)$	#5	32'-0"		
$e_{10}(E)$	#4	17'-6"		
$e_{11}(E)$	#4	18'-10"		
$x(E)$	#5	4'-1"		
Class X Concrete Superstructure			Cu. Yd.	280.5
Reinforcement Bars (Epoxy Coated)			Lbs.	63,230



Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 1x2-#5 etc. indicate 1 line of bars with 2 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.P. RT. 63 SECTION (5B)I-2
PEORIA COUNTY
STA. 1535+50.00 S.N. 072-0014

MODEL: D:\p\11\2023\23230904277 - Bridge Painting (F) 2023\04.CADD - DWG\4.7 IronCADD_Sheet\046862-Str.Structural.dwg 05.05.23

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000" = 1'	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

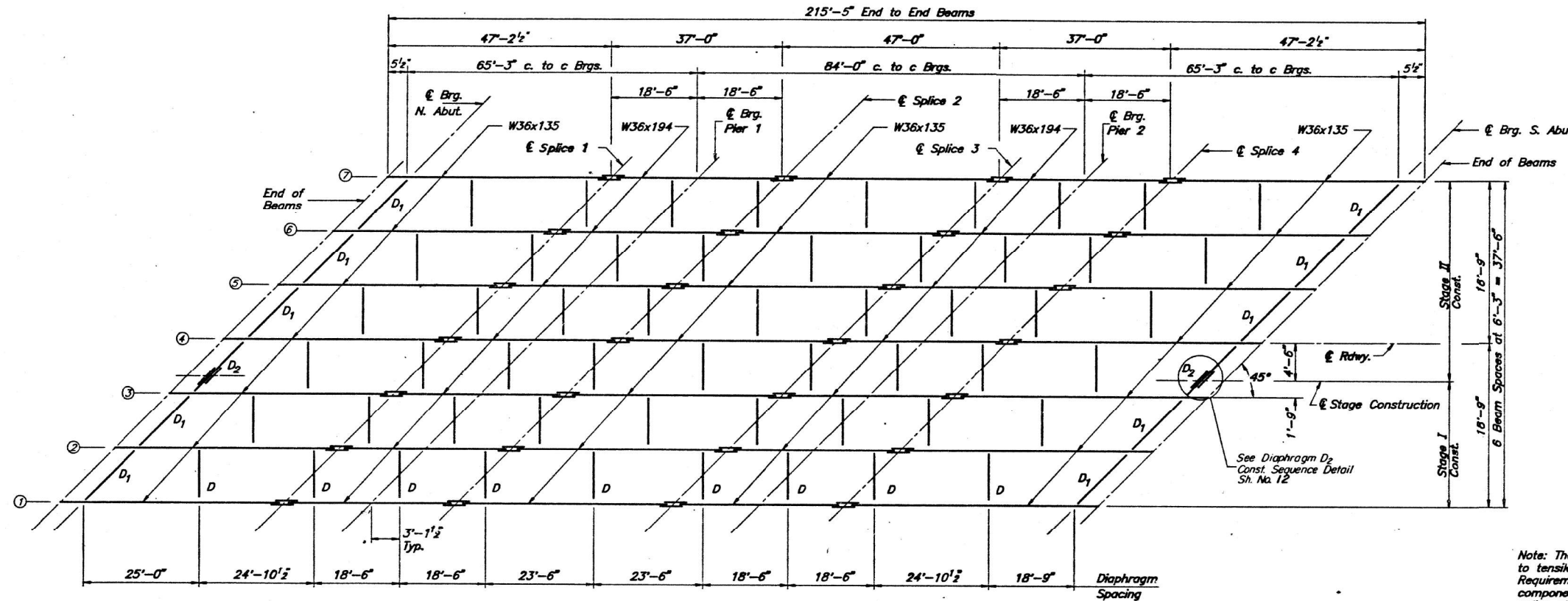
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 7 - STRUCTURE INFORMATION		TOTAL SHEETS		SHEET NO.	
SN 072-0014		136		87	
SCALE: N/A	SHEET 6 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 68K62	
				ILLINOIS FED. AID PROJECT	

Revised 03-01-91

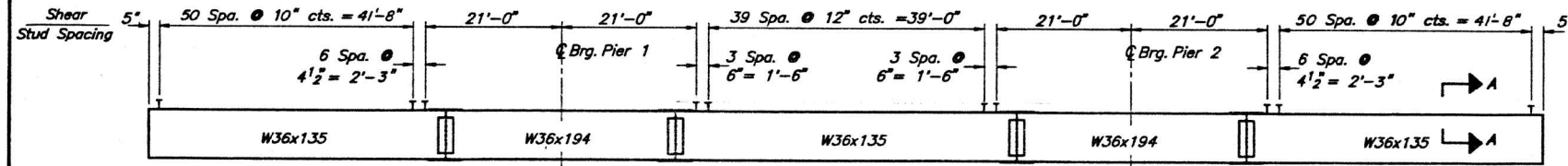
FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RT. 63	*	PEORIA	223	124
FILE NO.	PROJECT			
1482-024	(58)1-2			



FRAMING PLAN

Note: The main load carrying components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material of the wide flange beams except fill plates.

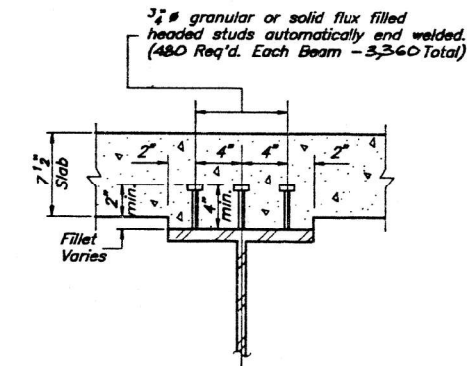


BEAM ELEVATION

***TOP OF BEAM ELEVATIONS**

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7
⊕ Brg. N. Abut.	470.89	471.03	471.14	471.25	471.16	471.07	470.95
** ⊕ Splice 1	470.89	471.03	471.14	471.25	471.16	471.07	470.95
⊕ Brg. Pier 1	470.92	471.06	471.17	471.28	471.19	471.10	470.98
** ⊕ Splice 2	470.95	471.09	471.20	471.31	471.22	471.13	471.01
** ⊕ Splice 3	471.02	471.20	471.31	471.42	471.34	471.25	471.14
⊕ Brg. Pier 2	471.07	471.25	471.36	471.48	471.40	471.32	471.21
** ⊕ Splice 4	471.12	471.30	471.41	471.54	471.46	471.39	471.28
⊕ Brg. S. Abut.	471.40	471.57	471.70	471.83	471.77	471.71	471.61

* Elevations are for fabrication only.
 ** Elevations at splices are at top of the W36x194 beams.



SECTION A-A

FRAMING PLAN
F.A.P. RT. 63 SECTION (5B)1-2
PEORIA COUNTY
STATION 15.35+50.00
SN 072-0014

MODEL: D:\p1\1482-024\1482-024.dwg; PLOT DATE: 9/8/2025; USER: bsb; PLT: 1482-024.dwg; PLOT SCALE: 10.0000; PLOT DATE: 9/8/2025



USER NAME = bsbambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
CHECKED - TBP	REVISED -	
DATE - SEPT 2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

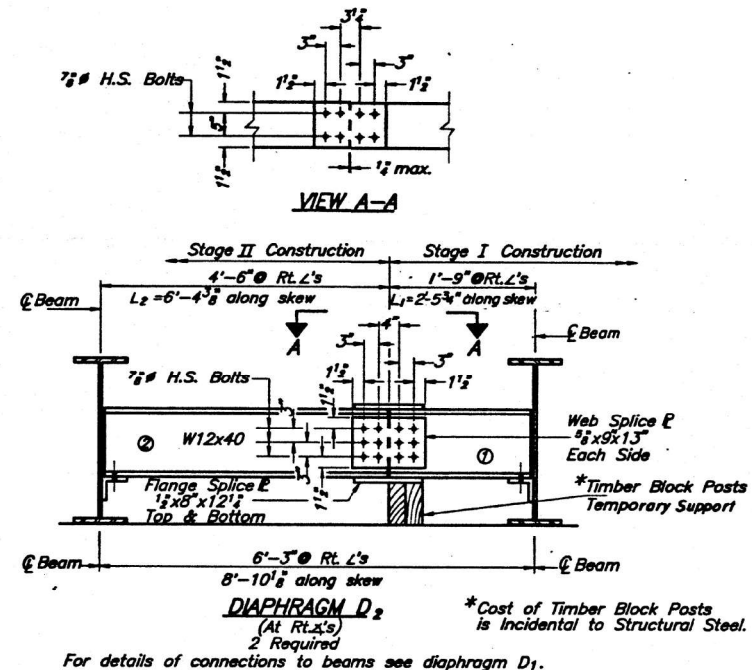
LOCATION 7 - STRUCTURE INFORMATION
SN 072-0014

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	88
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY
 LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
 SN 072-0014

DATE	REV.	BY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 63	*	PEORIA	223	125
* (58) I-2				



- DIAPHRAGM D2 CONSTRUCTION SEQUENCE**
- 1.) Order Diaphragm D2 in two sections with lengths of L1 and L2 as shown above.
 - 2.) Attach section ① of Diaphragm to beam and top flange splice E during Stage I Construction.
 - 3.) Place Timber Block Posts between section ① of diaphragm and abutment bearing seat.
 - 4.) Attach section ② of diaphragm to both Beams and section ① of diaphragm during Stage II Construction.
 - 5.) Attach all remaining splice plates to sections ① and ② of diaphragms.
 - 6.) Remove Timber Block Posts.

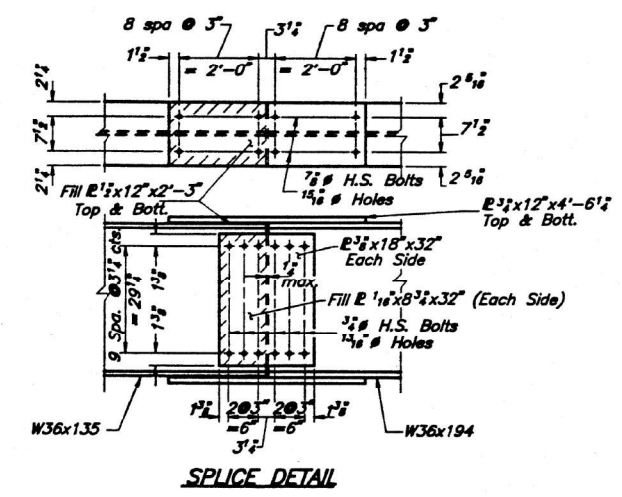
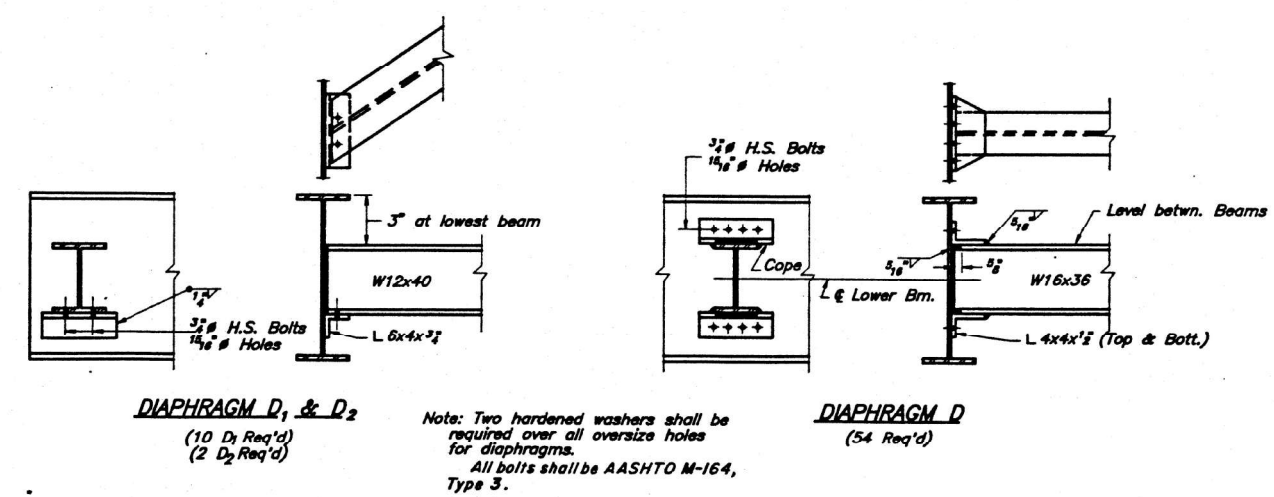
INTERIOR BEAM MOMENT TABLE

	0.4 Sp. 1	Piers 1 & 2	0.5 Sp. 2
Is (in ⁴)	7,800	12,100	7,800
Ic (in ⁴)	19,300		19,300
Ss (in ³)	439	664	439
Sc (in ³)	625		625
E (K ²)	0.770	1.100	0.770
M _E (K)	210.8	635.9	215.1
s _E (K ²)	0.280		0.280
M _s (K)	76.7		78.2
M _L (K)	416.5	327.3	472.9
M _{imp} (K)	109.5	81.9	113.0
S ₂ (M _L +I) (K)	876.7	682.0	976.5
M _a (K)	1513.5	1713.3	1650.7
* M _u (K)	2629.0		2629.0
fs _E non-comp (k.s.i.)	5.76	11.49	5.88
fs _E (comp) (k.s.i.)	1.47		1.50
fs ₂ (L+I) (k.s.i.)	16.83	12.33	18.75
fs (Overload) (k.s.i.)	24.06	23.82	26.13
** fs (Total) (k.s.i.)		30.97	
VR (K)	47.7		39.8

INTERIOR BEAM REACTION TABLE

	Abut.	Piers 1 & 2
R _E (K)	24.7	87.6
R _L (K)	34.4	47.0
Imp (K)	8.9	11.8
R Total (K)	68.0	146.4

* M_u = Full Plastic Moment Capacity for Compact, Braced Section.
 ** Non-compact section
 M_a (Applied Moment) = 1.3 [M_E + M_s + S₂(M_L+I)]



STRUCTURAL STEEL DETAILS
 F.A.P. RT. 63 SECTION (5B)I-2
 PEORIA COUNTY
 STATION 15.35+50.00
 SN. 072-0014

MODEL: D:\4\11... TWM, INC. ENGINEERING GEOSPATIAL SERVICES

TWM, INC.
 ENGINEERING GEOSPATIAL SERVICES
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
PLGT SCALE = 10.0000 "/ft.	CHECKED - TBP	REVISED -
PLGT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 7 - STRUCTURE INFORMATION
 SN 072-0014

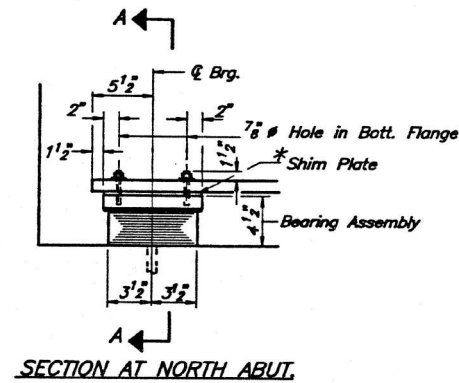
SCALE: N/A	SHEET 8 OF 10 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	89
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

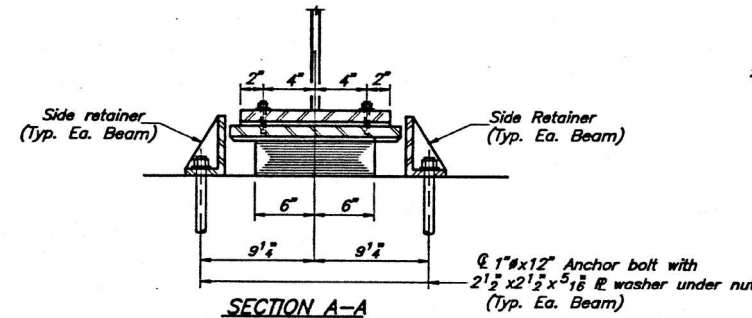
FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE 63	*	PEORIA	223	126
FED. ROAD DIST. NO. 7	SLURRY	PROJECT		

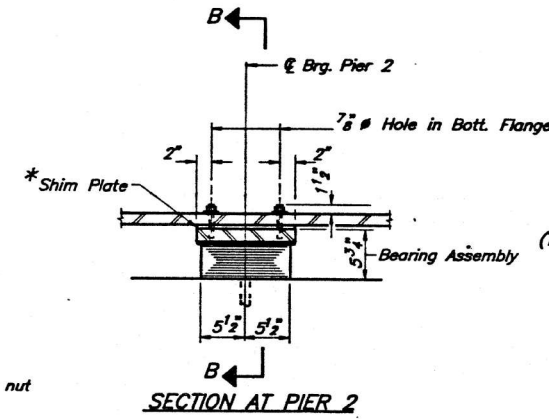
* (5B)I-2



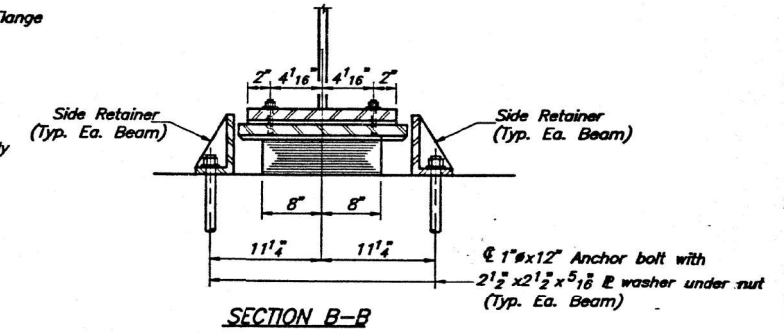
SECTION AT NORTH ABUT.



SECTION A-A



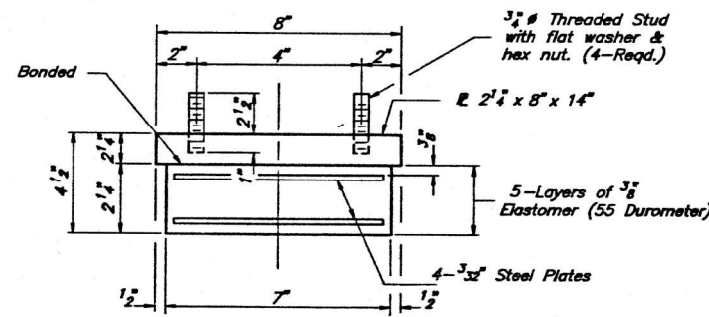
SECTION AT PIER 2



SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.
NORTH ABUTMENT
 (7 Required)

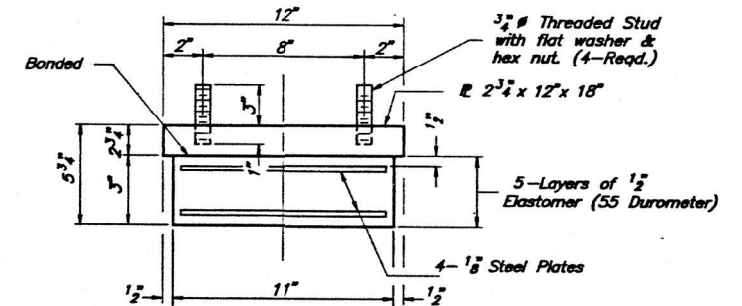
TYPE I ELASTOMERIC EXP. BRG.
PIER 2
 (7 Required)



BEARING ASSEMBLY
NORTH ABUTMENT

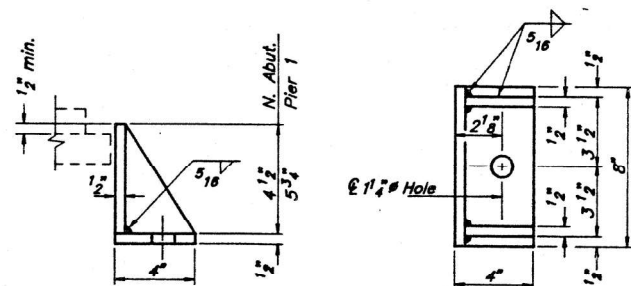
NOTE: Shim plates shall not be placed under bearing assembly.

See Sh.#15 for anchor bolt installation.
 * Shim Plates if required. See General Notes sheet 2 of 20.



BEARING ASSEMBLY
PIER 2

NOTE: Shim plates shall not be placed under bearing assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	14

BEARING DETAILS
NORTH ABUTMENT & PIER 2
F.A.P. RT. 63 SECTION (5B)I-2
PEORIA COUNTY
STATION 1535+50.00
SN. 072-0014

MODEL: D:\p1\11... FILE NAME: P:\2023\230904\227... DWG: 4.7... SHEET: 13 OF 20



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -
PLOT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

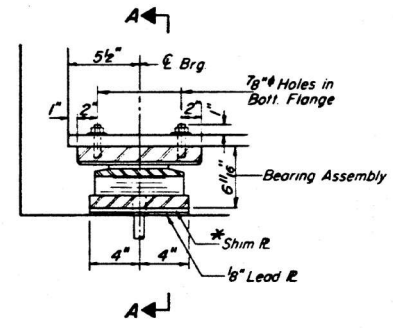
LOCATION 7 - STRUCTURE INFORMATION
SN 072-0014

SCALE: N/A SHEET 9 OF 10 SHEETS STA. TO STA.

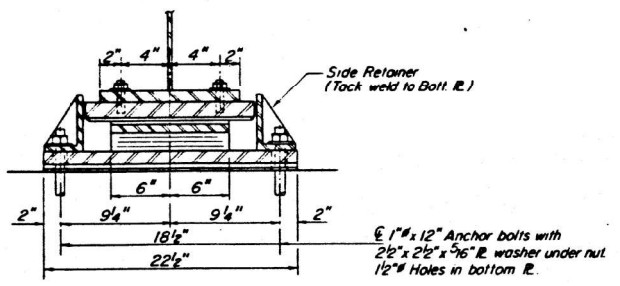
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VAR	D4 BRIDGE PAINTING 2026	VAR	136	90
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 7 (IL 29 OVER SENECHWINE CREEK)
SN 072-0014

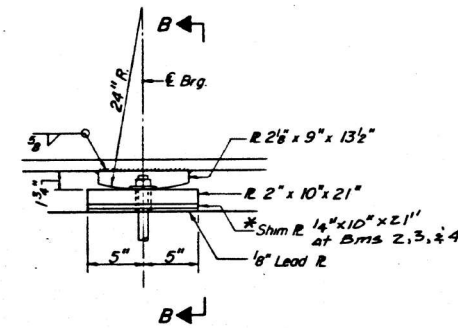
PROJECT NO.	SECTION	QUANTITY	DATE	BY	SHEET NO. 14
F.A.P. RT. 63	*	PEORIA	223	127	20 SHEETS



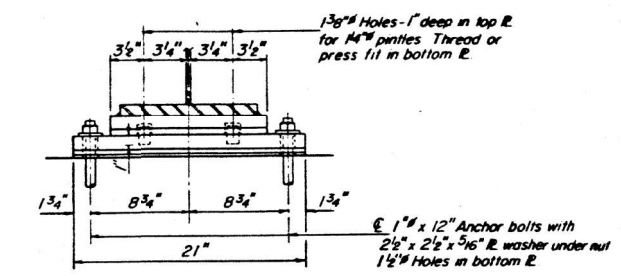
SECTION AT SOUTH ABUT.



SECTION A-A

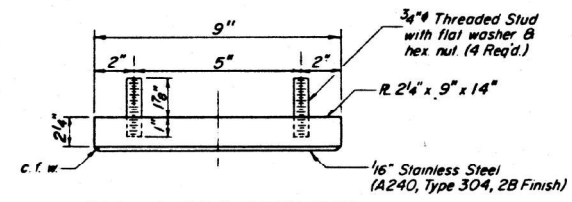


ELEVATION AT PIER I

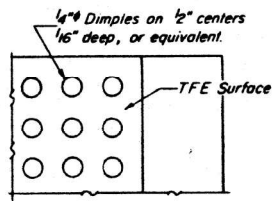


SECTION B-B

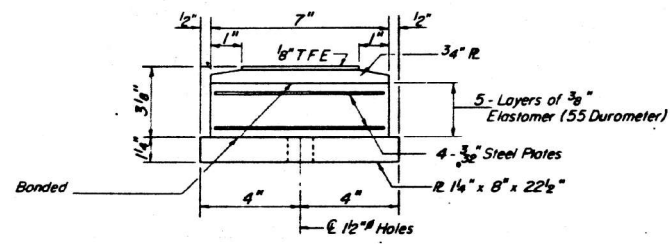
TYPE II TFE ELASTOMERIC EXP BRG. SOUTH ABUTMENT



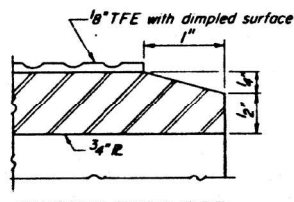
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE

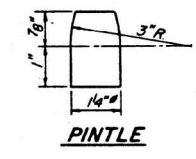


BOTTOM BEARING ASSEMBLY



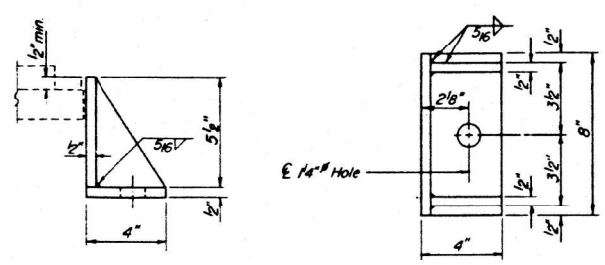
SECTION THRU TFE

See sheet #15 for Anchor Bolt installation.
 * Additional Shim Plates if required. See General Notes on Sheet 2 of 20.



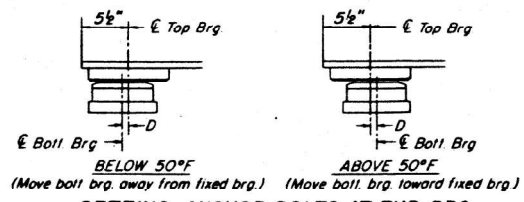
PINTLE

Note: The 1/8" 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 MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
 Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp change from the normal temp of 50°F

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Elastomeric Bearing Assembly Type II	Each	7

BEARING DETAILS
SOUTH ABUTMENT & PIER I
F.A.P. RT. 63 SECTION (58)1-2
PEORIA COUNTY
STATION 1535 + 50.00
S.N. 072-0014

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TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DRAWN - BCS	REVISED -	
PLOT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -
PLOT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 7 - STRUCTURE INFORMATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 072-0014		VAR	D4 BRIDGE PAINTING 2026	VAR	136	91
SCALE: N/A		SHEET 10 OF 10 SHEETS		STA.	TO STA.	CONTRACT NO. 68K62
						ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

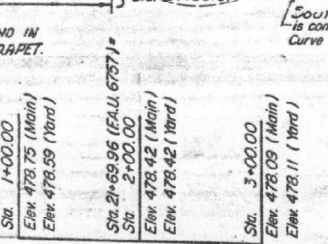
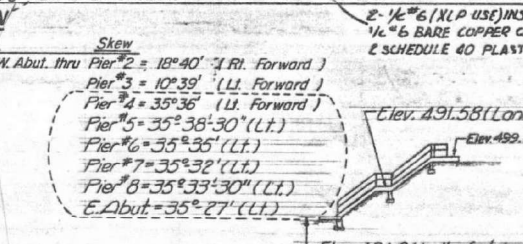
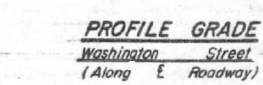
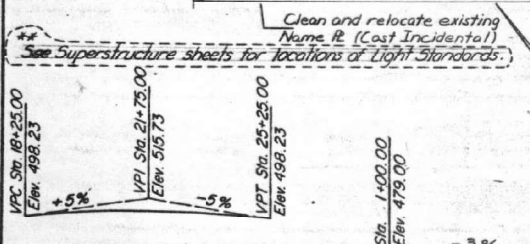
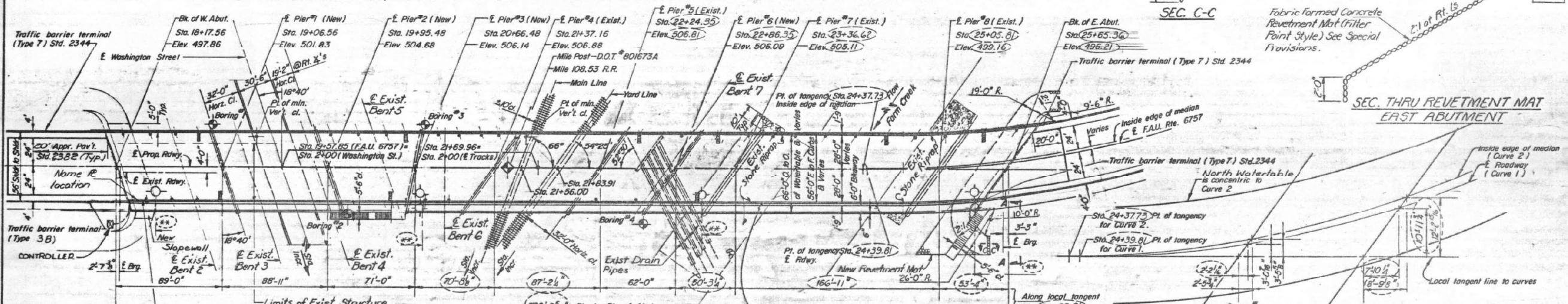
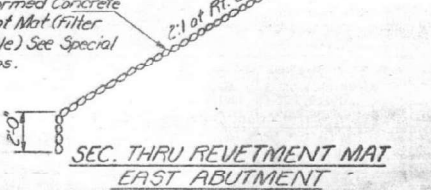
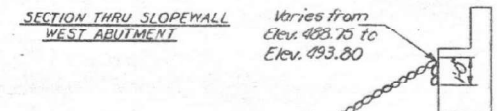
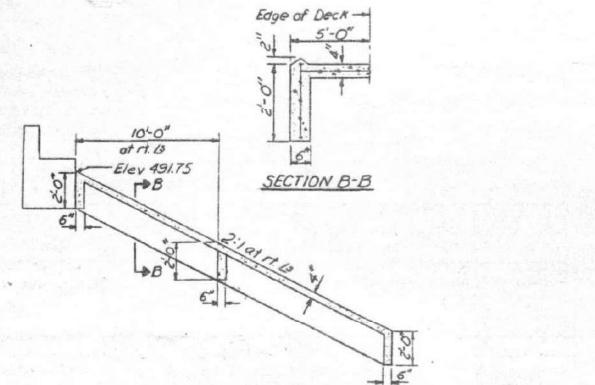
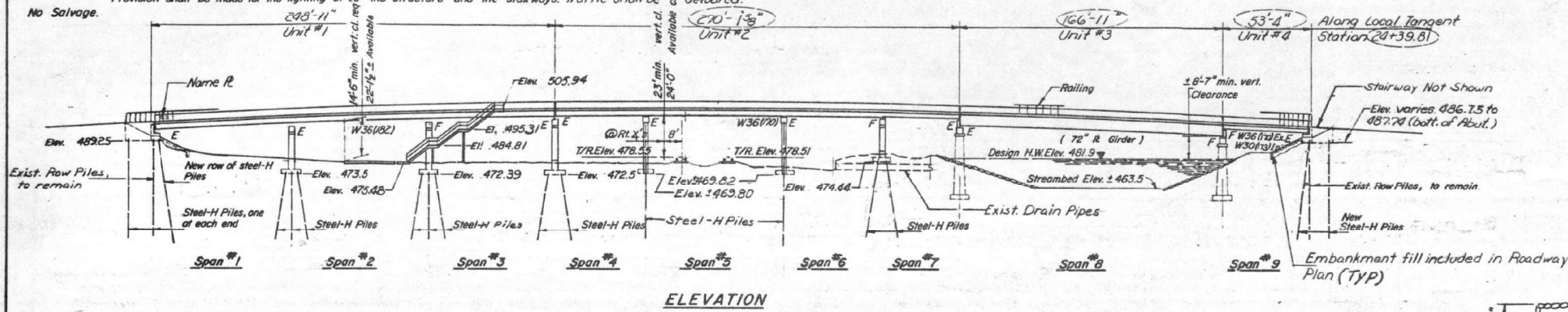
Bench Mark: C. & G.S. B.M., E 235 (B1433) Elev. 463.296 — B.M. 'X' on 3/4" hex bolt on hydrant @ S.W. Corner of Rte. 150 & Urbandale Ave. — Elev. 480.72

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 64 SHEETS
A. S. 1 # 42151	BR	TAZEWELL	89	26	
FED. ROAD DIST. NO. 7		RAILROAD	FED. AID PROJECT		

Existing Structure: No. 090-0037. Built in 1934 as S.B.I. Rte 121, Section 104-VB, F&E-N.R.M. at station 21+88.83. The structure consists of 10 simple spans and one truss span. Total length back to back of abutments = ± (740'-3") Out to Out of water table = 50'-0". The Contractor shall remove the existing superstructure and replace it with new superstructure consisting of 3-Span continuous wide flange bms. (new spans 1 thru 3), 4-Span continuous wide flange bms. (new spans 4 thru 7), a simple span plate girder (new span 8), and a simple span wide flange unit (new span 9). The Contractor shall build 4 new piers. Existing piers 4, 5, 7 and 8 shall be widened as shown and utilized in the new construction which will also include existing piling at abutments. Existing bents 2 thru 7 and caps of existing bents 1 and 8 shall be removed. Provision shall be made for the lighting of the structure and the stairways. Traffic shall be detoured.

No Salvage.



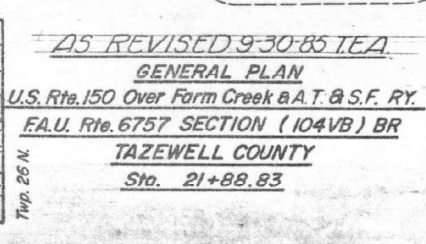
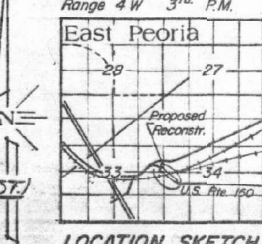
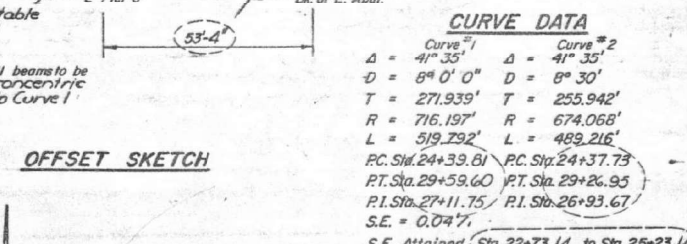
DESIGN STRESSES

FIELD UNITS

$f_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinf.)}$
 $f_y = 36,000 \text{ psi (AASHTO M 183 (5th. S11))}$
 $f_y = 50,000 \text{ psi (AASHTO M 223, Grade 501 (Structural S11))}$

LOADING HS 20-44 (NEW CONST.)

Design Specifications: AASHTO (1983)



DESIGNED MHB, RAB, LA
CHECKED RFR, MHB, LA
DRAWN PWS
CHECKED RFR, MHB, RAB, LA

DESIGNED BCS
DRAWN BCS
CHECKED TBP
DATE - SEPT 2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	92
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				



TWM, INC.
 USER NAME = bstambaugh
 PLT SCALE = 10.0000" = 1'-0"
 PLOT DATE = 9/8/2025

DESIGNED - BCS
DRAWN - BCS
CHECKED - TBP
DATE - SEPT 2025

REVISED -
REVISED -
REVISED -
REVISED -

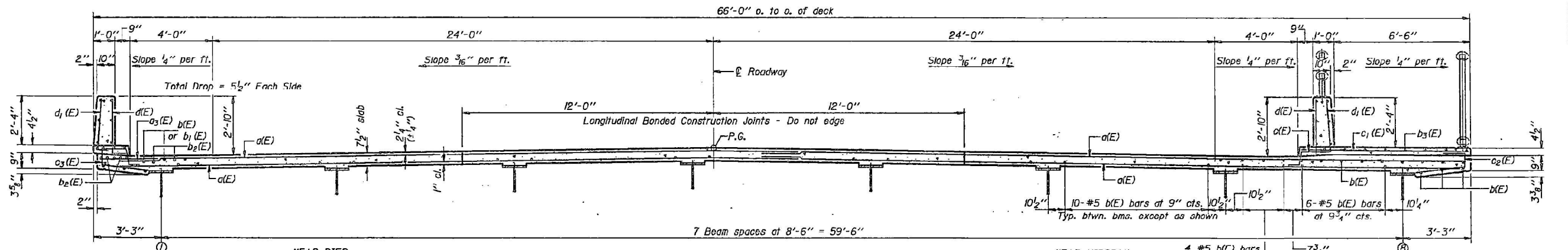
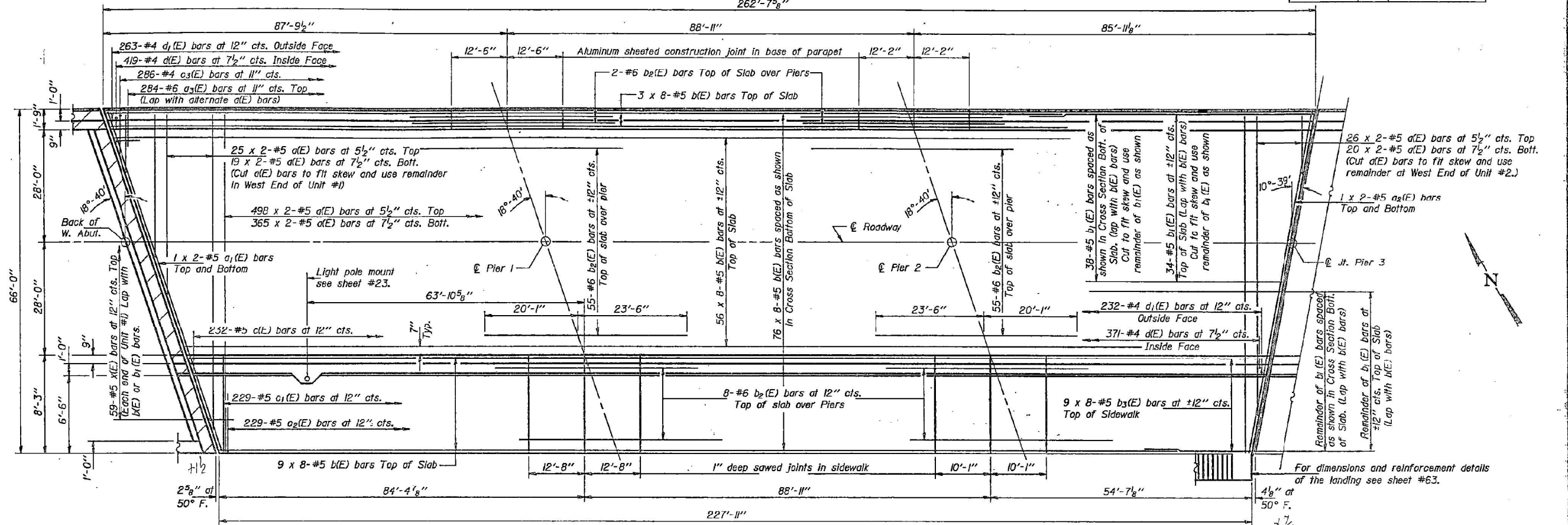
SCALE: N/A SHEET 1 OF 25 SHEETS STA. TO STA.

SCALE: N/A SHEET 1 OF 25 SHEETS STA. TO STA.

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6757	104 VB BR	TAZEWELL	89	39
SHEET NO. 14a				
64 SHEETS				



DESIGNED L.W.K.
 CHECKED M.H.B.
 DRAWN Joe Sutherland
 CHECKED M.H.B.

EXAMINED *James J. Sutherland*
 PASSED *James J. Sutherland*
 APPROVED *James J. Sutherland*
 DIRECTOR OF HIGHWAYS

Notes: Minimum lap for #5 bars is 2'-2".
 For drain spacing see sheet #2.
 See sheets #19 thru 24 for superstructure details and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 9 x 8-#5 etc. indicates 9 lines of bars with 8 lengths per line.
 Cut b₁(E) and b₂(E) bars as required to miss drainage scuppers.

AS REVISED 9-30-85 T.E.A.
SUPERSTRUCTURE - UNIT #1
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DESIGNED - BCS	DRAWN - BCS	REVISED -
PLLOT SCALE = 10.0000' / ft.	CHECKED - TBP	REVISED -
PLLOT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

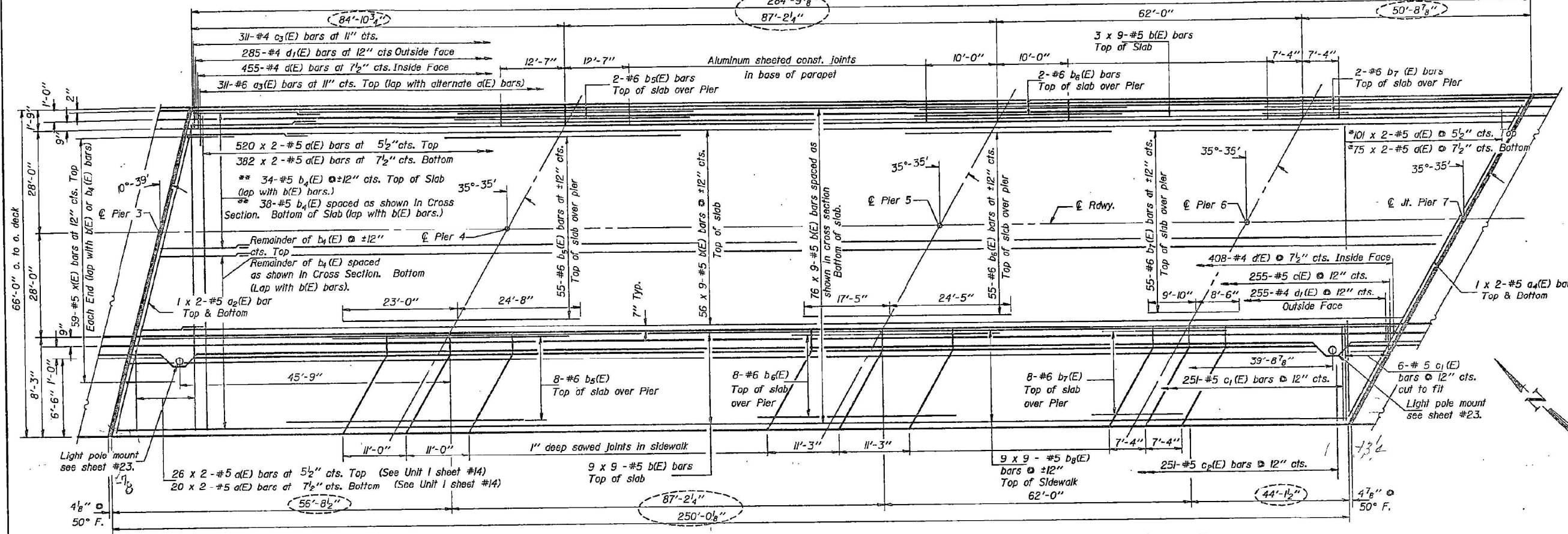
LOCATION 8 - STRUCTURE INFORMATION			
SN 090-0037			
SCALE: N/A	SHEET 2	OF 25 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	93
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

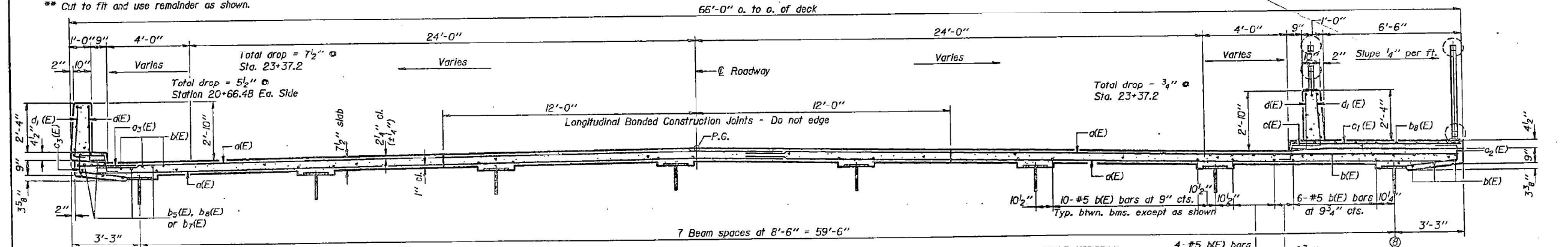
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6757	104 VB BR	TAZEWELL	89	40
64 SHEETS				



PLAN

* Cut d(E) bars to fit skew and use remainder at West end in Unit 3
 ** Cut to fit and use remainder as shown.



CROSS SECTION
 (Looking East)

Notes:
 Min. lap for #5 bars is 2'-2".
 For Drain spacing see sheet #2.
 See sheets #19 thru 24 for Superstructure Details and Bill of Material.
 Reinforcement Bars designated (E) shall be Epoxy Coated.
 Bars indicated thus 3 x 9-#5 etc., indicates 3 lines of bars with 9 lengths per line.
 Cut b(E), b5(E) and b7(E) bars as required to miss drainage scuppers.

DESIGNED	L.W.K.	Dec. 28, 1984
CHECKED	M.H.B.	EXAMINED <i>James J. Paulson</i>
DRAWN	Morocco	PASSED <i>James J. Paulson</i>
CHECKED	M.H.B.	APPROVED _____

AS REVISED 9-30-85 T.E.A.
SUPERSTRUCTURE - UNIT #2
F.A.U. RTE. 6757 SEC. (104 VB) BR
TAZEWELL COUNTY
STA. 21+88.83



USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
DESIGNED	- BCS	DRAWN	- BCS	REVISED	-
CHECKED	- TBP	CHECKED	- TBP	REVISED	-
DATE	- SEPT 2025	DATE	- SEPT 2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

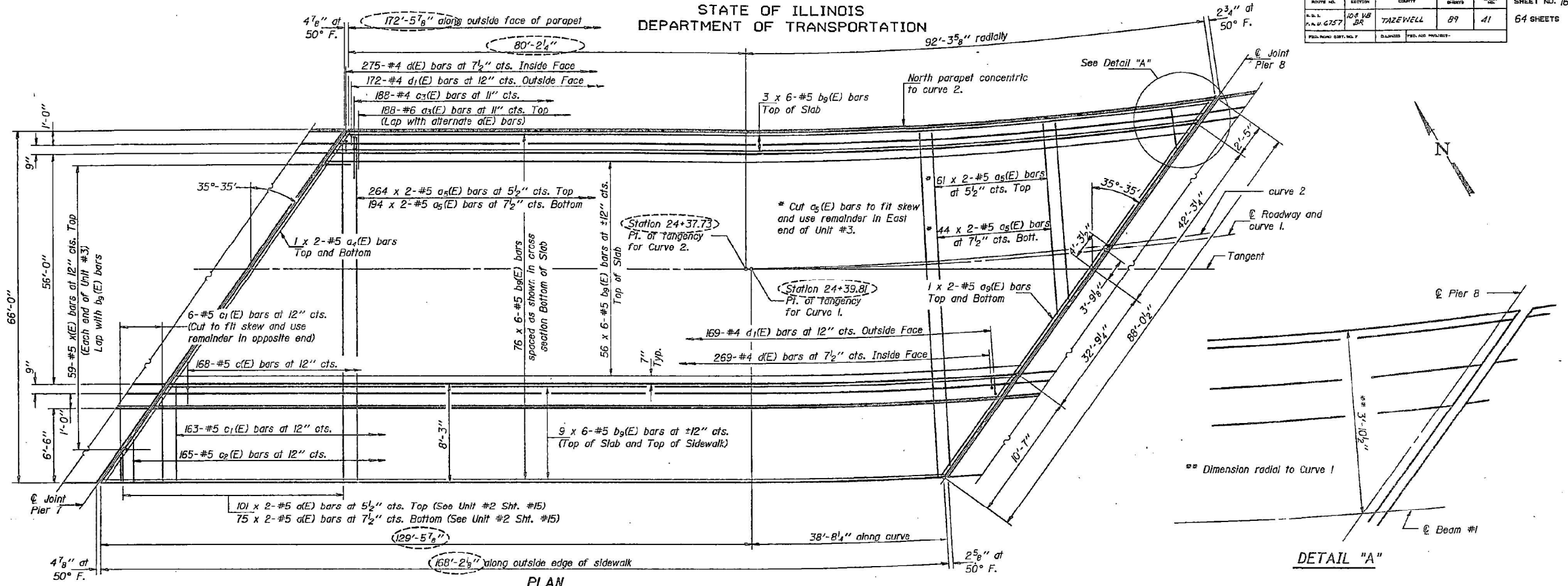
LOCATION 8 - STRUCTURE INFORMATION			
SN 090-0037			
SCALE:	N/A	SHEET	3 OF 25 SHEETS
STA.	TO STA.		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	94
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

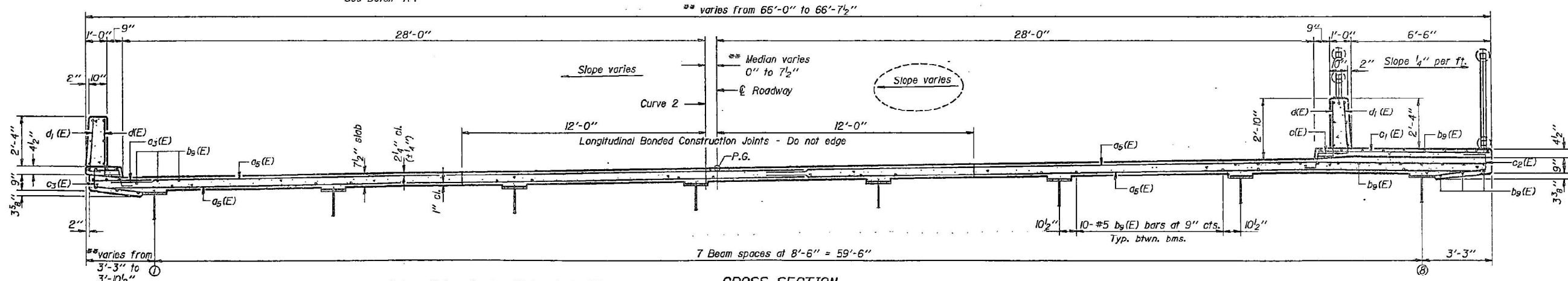
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.	SHEET NO. 160 64 SHEETS
F.A.U. 6757	104VB BR	TAZEWELL	89	41	
DESIGNED		DRAWN		CHECKED	
M.H.B.		J. Sutherland		L.W.K.	



DETAIL "A"



DESIGNED	M.H.B.
CHECKED	L.W.K.
DRAWN	Joe Sutherland
CHECKED	L.W.K.

Notes: Minimum lap for #5 bars is 2'-2".
 For drain spacing see sheet #2.
 See sheets #19 thru 24 for superstructure details and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 56 x 6-#5 etc. indicates 56 lines of bars with 6 lengths per line.
 Cut b₉(E) bars as required to miss drainage gutter.

CROSS SECTION
 (Looking East)
 Everything is concentric to curve 1 except as noted.

AS REVISED 9-30-85 T.E.A.
SUPERSTRUCTURE - UNIT #3
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83

MODEL: D:\dwg\11...
 FILE NAME: P:\2023\230904\227 - Bridge Painting (F) 2023\14.CADD - DWG\4.7.TrafficCADD_Sheet(104VB)BR.ctb 06/06/2023



USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
DESIGNED	- BCS	REVISED	-		
DRAWN	- TBP	REVISED	-		
CHECKED	-	REVISED	-		
DATE	- SEPT 2025	REVISED	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

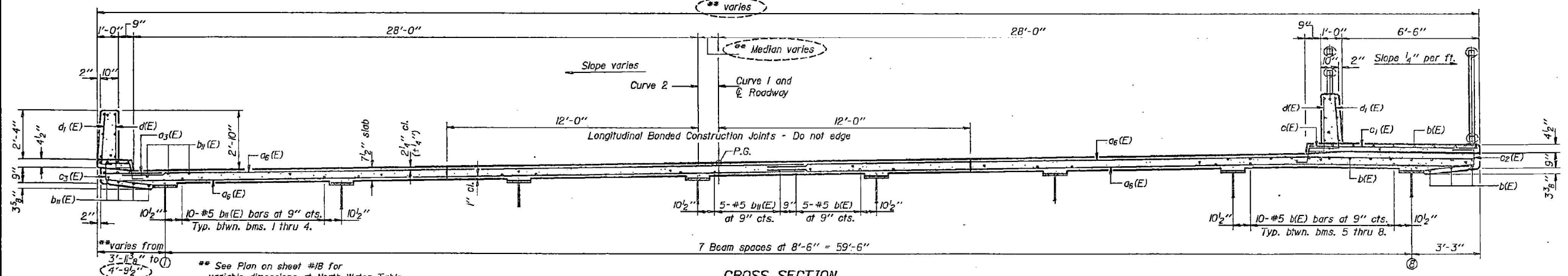
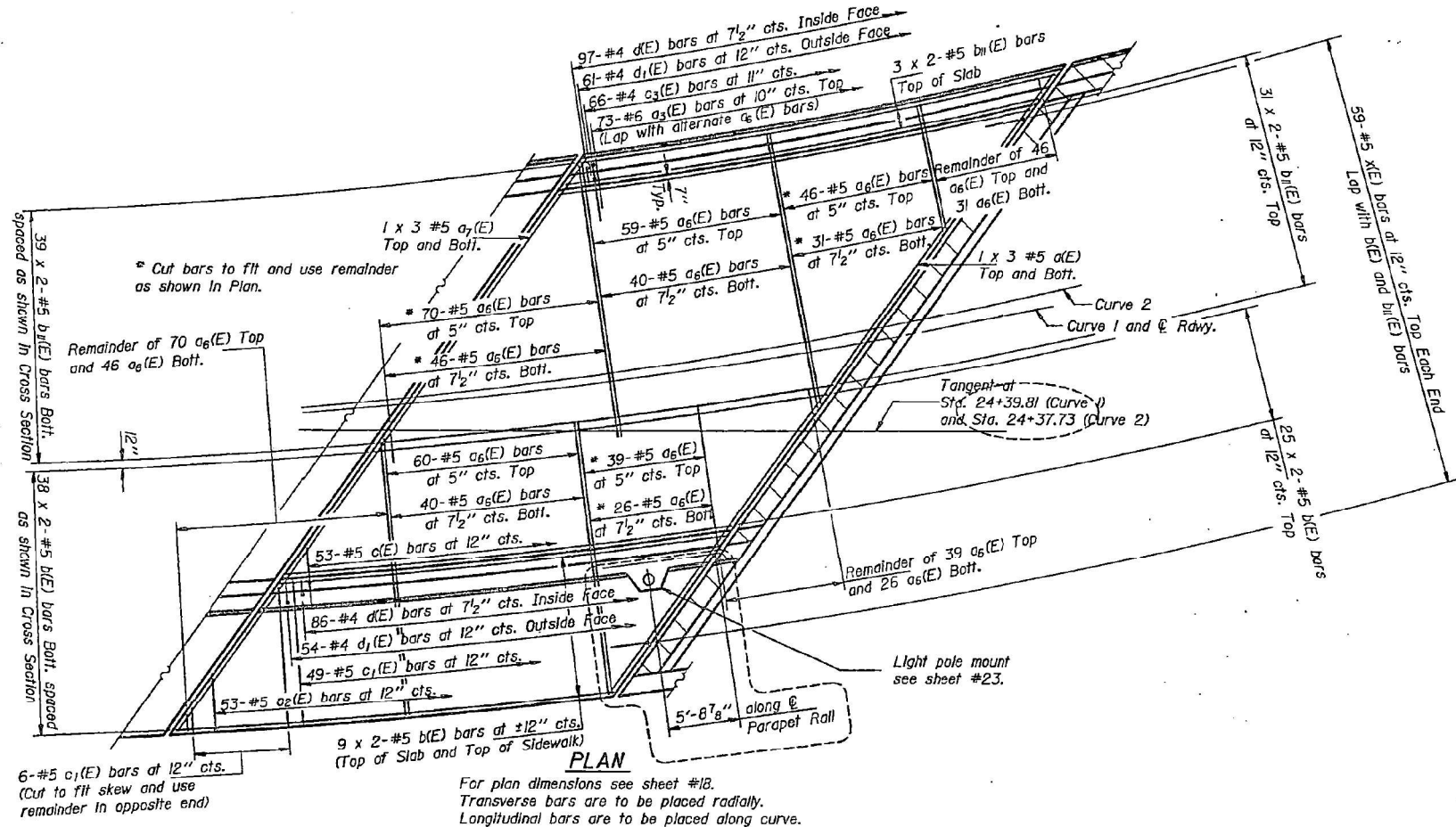
LOCATION 8 - STRUCTURE INFORMATION			
SN 090-0037			
SCALE: N/A	SHEET 4	OF 25 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	95
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6757	104VB BR	TAZEWELL	89	42
SHEET NO. 17a				
64 SHEETS				



DESIGNED R.A.B.
 CHECKED L.W.K.
 DRAWN Joe Sutherland
 CHECKED L.W.K.

EXAMINED James J. Robinson
 PASSED James J. Robinson
 APPROVED _____
 DIRECTOR OF HIGHWAYS

Dec 28, 1984

Notes: Minimum lap for #5 bars is 2'-2".
 For drain spacing see sheet #2.
 See sheets #19 thru 24 for superstructure details and Bill of Material.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 35 x 2-#5 etc. indicates 35 lines of bars with 2 lengths per line.
 Cut b₁(E) bars as required to miss drainage gutter.

AS REVISED 9-30-85 T.E.A.
SUPERSTRUCTURE - UNIT #4
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83

MODEL: D:\dwg\11\2025\11\01\DWG\11_7_Trip\CADD_Sheets\11_68K62.dwg
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 BRIDGE PAINTING (F.Y. 2025) ILL. CO. D.W.G. 11_7_Trip\CADD_Sheets\11_68K62.dwg



TWM, INC.
 WWW.TWM-INC.COM
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DESIGNED - BCS	REVISED -	
CHECKED - TBP	REVISED -	
DATE - SEPT 2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

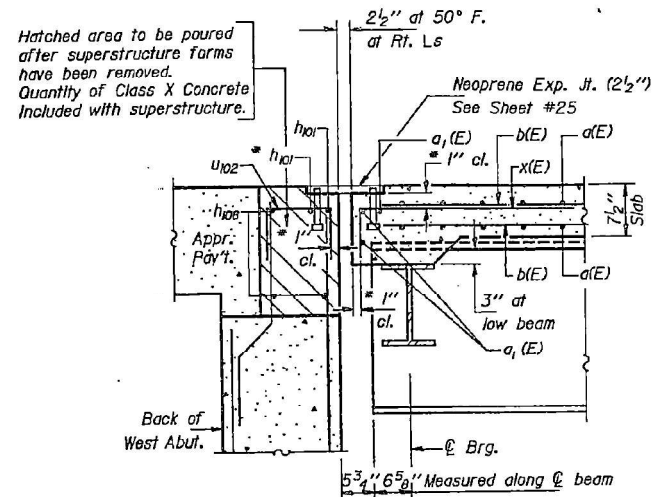
SCALE: N/A SHEET 5 OF 25 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	96
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

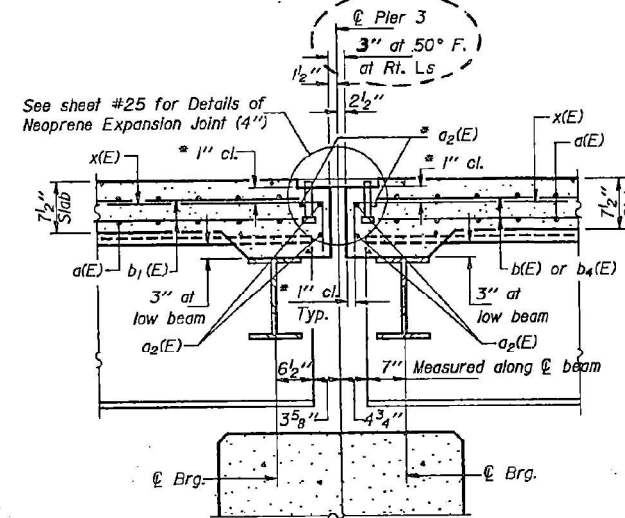
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

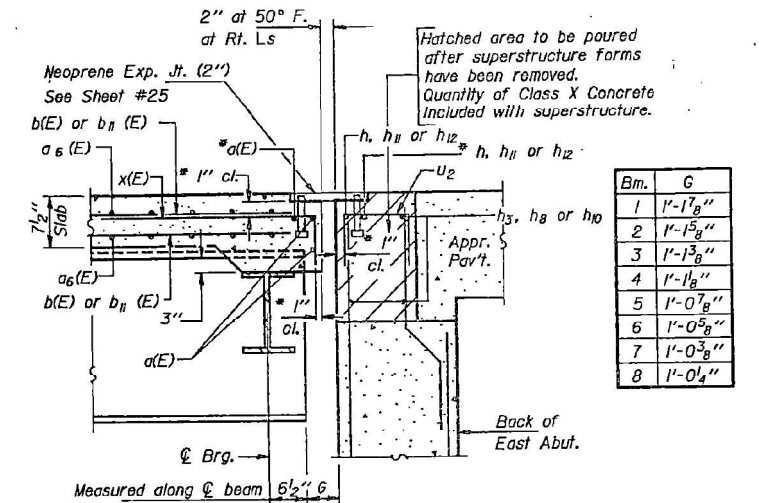
ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 20a 64 SHEETS
F.A.U. 6757	BR	TAZEWELL	89	45	
FED. ROAD DIST. NO. 7	BRIDGE	FED. AID PROJECT			



SECTION THRU WEST ABUT.
(Looking North)

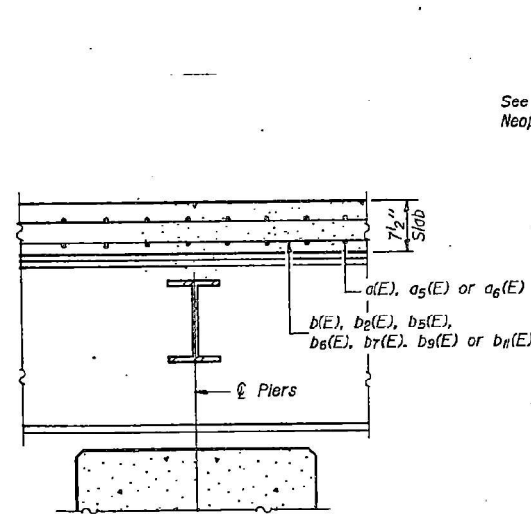


SECTION THRU PIER #3
(Looking North)

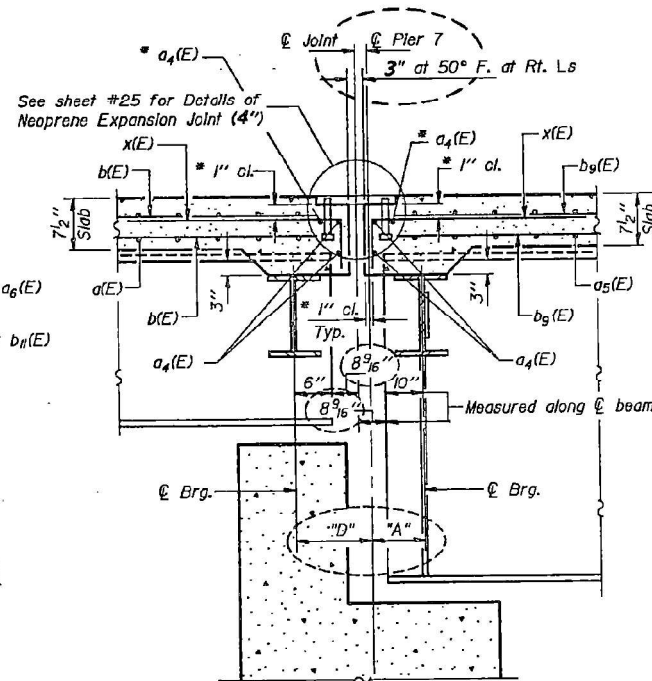


SECTION THRU EAST ABUT.
(Looking North)

Bm.	G
1	1'-1 7/8"
2	1'-1 5/8"
3	1'-1 3/8"
4	1'-1 1/8"
5	1'-0 7/8"
6	1'-0 5/8"
7	1'-0 3/8"
8	1'-0 1/4"

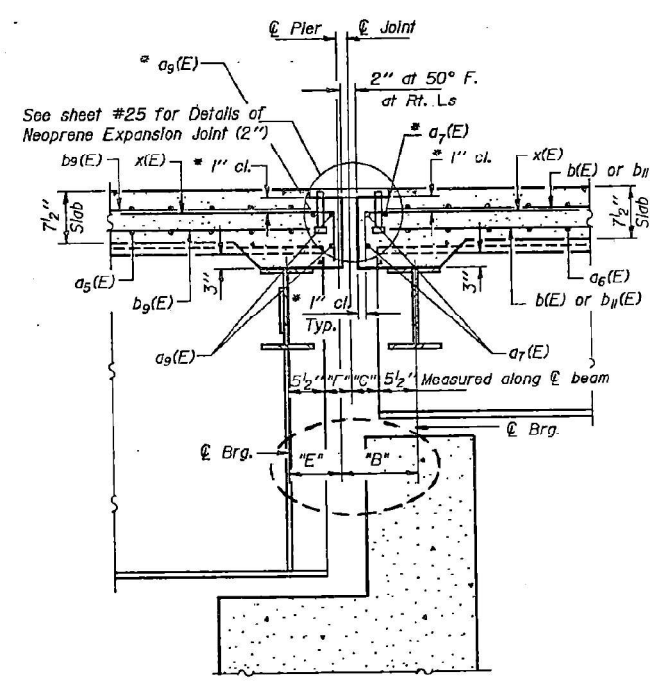


SECTION THRU PIERS #1, #2, #4, #5, & #6
(Looking North)



SECTION THRU PIER #7
(Looking North)

Horizontal dimensions are along Cl. beam except as noted.



SECTION THRU PIER #8
(Looking North)

Horizontal dimensions are along Cl. beam except as noted.

TABLE OF "A" THRU "F" DIMENSIONS

Bm.	"A"	"B"	"C"	"D"	"E"	"F"
1	1'-0 1/8"	1'-8 1/8"	10 3/4"	1'-9 1/8"	1'-0 5/8"	11"
2	1 1/8"	1'-7 13/16"	10 9/16"	1'-9 5/8"	1'-0 3/8"	10 7/8"
3	1 3/4"	1'-7 9/16"	10 3/8"	1'-9 1/16"	1'-0 1/2"	10 5/8"
4	1 5/8"	1'-7 5/16"	10 1/4"	1'-9 1/16"	1'-0 1/2"	10 1/2"
5	1 1/2"	1'-7 1/16"	10 1/8"	1'-9 1/16"	1'-0 1/16"	10 3/8"
6	1 3/8"	1'-6 13/16"	10"	1'-9 13/16"	1'-0 7/16"	10 1/4"
7	1 1/4"	1'-6 9/16"	9 7/8"	1'-9 15/16"	1'-0 1/16"	10 1/8"
8	1 1/8"	1'-6 3/8"	9 3/4"	1'-10 1/16"	1'-0 3/8"	10"

* Place these bars in back of anchor bolts as shown if required to maintain 1" cl. (+0-1/2"). Anchor bolts should be tied to these bars.

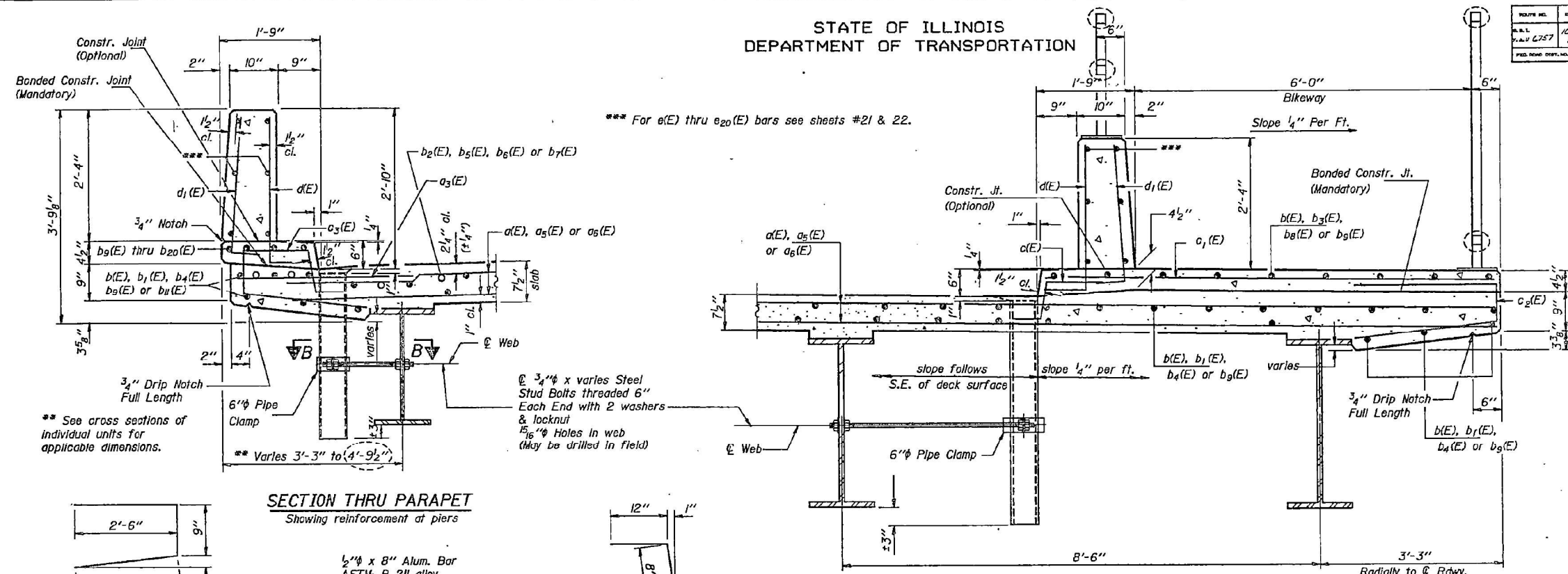
DESIGNED M.H.B. R.A.B. L.W.K.	EXAMINED <i>James J. [Signature]</i> DIRECTOR OF BRIDGE DESIGN
CHECKED M.H.B. R.A.B. L.W.K.	PASSED <i>James J. [Signature]</i> DIRECTOR OF BRIDGE DESIGN
DRAWN Mercado	APPROVED _____ DIRECTOR OF HIGHWAYS
CHECKED M.H.B. R.A.B. L.W.K.	

AS REVISED 9-30-85 T.E.A.
SUPERSTRUCTURE DETAILS
F.A.U. RTE. 6757 SEC. (104 VB) BR
TAZEWELL COUNTY
STA. 21+88.83

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

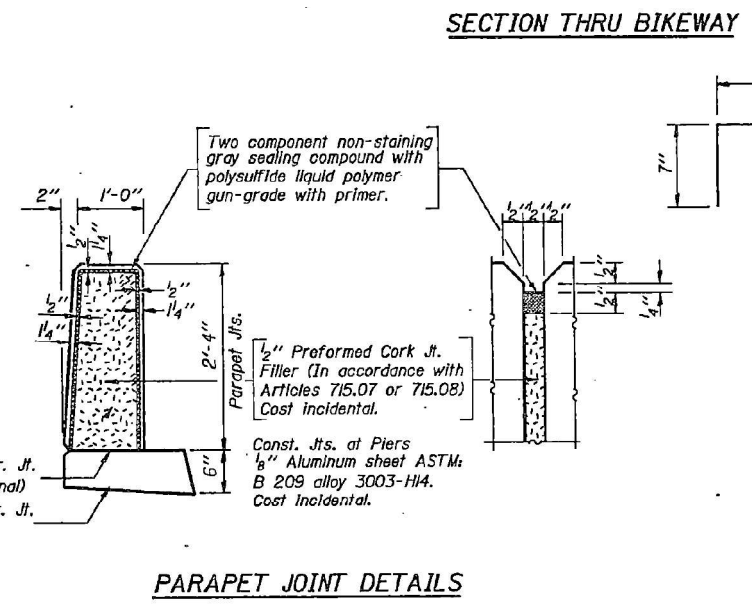
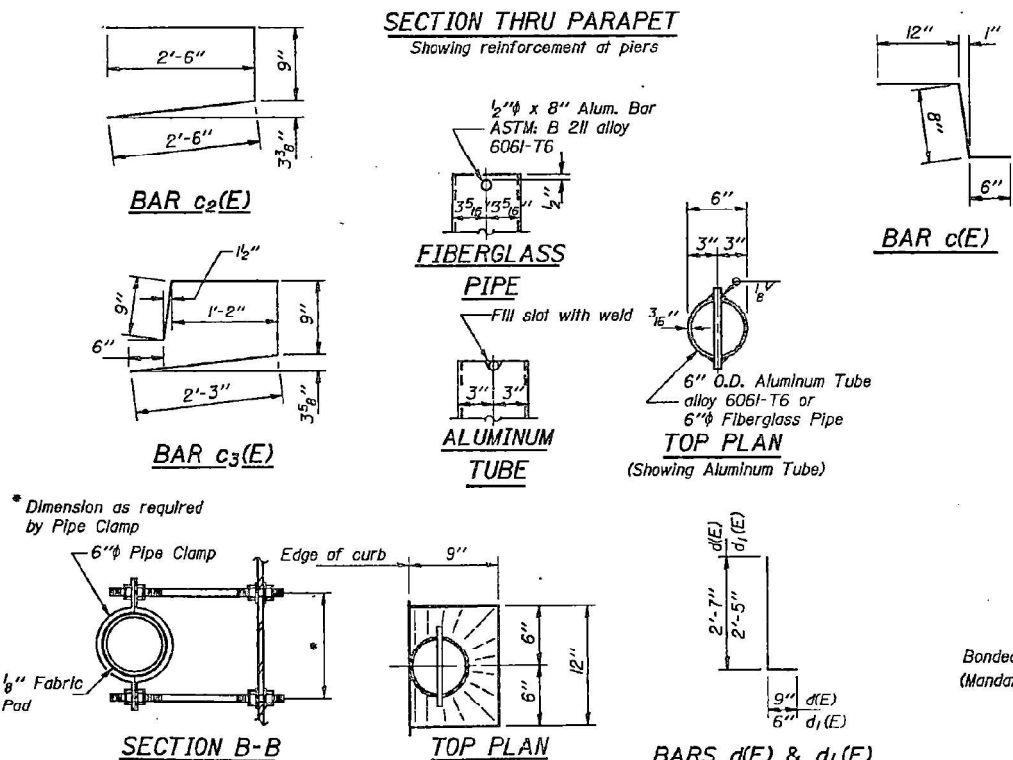
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 6757	104 VB BR	TAZEWELL	89	49
PROJECT NO. 249		64 SHEETS		



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	4068	#5	33'-6"	
a2(E)	4	#5	35'-3"	
a3(E)	8	#5	34'-1"	
a4(E)	856	#6	4'-0"	
a5(E)	8	#5	41'-1"	
a6(E)	1126	#5	33'-10"	
a7(E)	457	#5	34'-0"	
a8(E)	6	#5	30'-9"	
a9(E)	76	#5	2'-0"	
a10(E)	4	#5	45'-0"	
a11(E)	13	#7	14'-2"	
a12(E)	11	#5	9'-3"	
b1(E)	2510	#5	29'-10"	
b2(E)	72	#5	47'-8"	
b3(E)	130	#6	43'-7"	
b4(E)	72	#5	31'-0"	
b5(E)	72	#5	36'-4"	
b6(E)	65	#6	47'-8"	
b7(E)	65	#6	41'-10"	
b8(E)	65	#6	13'-4"	
b9(E)	81	#5	30'-3"	
b10(E)	942	#5	30'-6"	
b11(E)	8	#5	7'-1"	
b12(E)	148	#5	31'-4"	
b13(E)	12	#5	26'-5"	
b14(E)	8	#5	12'-3"	
b15(E)	20	#5	22'-10"	
b16(E)	8	#5	11'-11"	
b17(E)	24	#5	26'-0"	
b18(E)	8	#5	12'-4"	
b19(E)	12	#5	22'-11"	
b20(E)	8	#5	9'-9"	
b21(E)	8	#5	23'-4"	
b22(E)	19	#6	12'-1"	
c1(E)	757	#5	2'-2"	
c2(E)	710	#5	7'-9"	
c3(E)	698	#5	5'-9"	
c4(E)	851	#4	5'-5"	
d1(E)	2380	#4	3'-4"	L
d2(E)	1491	#4	2'-11"	L
d3(E)	16	#6	10'-1"	
d4(E)	12	#6	4'-6"	
d5(E)	7	#4	3'-10"	
e1(E)	24	#4	18'-6"	
e2(E)	12	#4	12'-3"	
e3(E)	27	#4	15'-9"	
e4(E)	12	#4	11'-11"	
e5(E)	60	#4	18'-2"	
e6(E)	18	#4	15'-1"	
e7(E)	24	#4	9'-10"	
e8(E)	24	#4	16'-3"	
e9(E)	24	#4	12'-4"	
e10(E)	24	#4	18'-0"	
e11(E)	12	#4	11'-0"	
e12(E)	24	#4	7'-1"	
e13(E)	39	#4	14'-2"	
e14(E)	18	#4	13'-8"	
Reinforcement Bars (Epoxy Coated)		Lbs.	385,130	
Class X Concrete		Cu. Yds.	1460.7	



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a14(E)	48	#4	15'-11"	
a15(E)	12	#4	10'-8"	
a16(E)	36	#4	14'-10"	
a17(E)	57	#4	19'-0"	
a18(E)	3	#4	17'-4"	
a19(E)	18	#4	14'-7"	
a20(E)	54	#4	18'-6"	
x(E)	472	#5	4'-1"	
Reinforcement Bars (Epoxy Coated)		Lbs.	385,130	
Class X Concrete		Cu. Yds.	1460.7	

Reinforcement bars designated (E) shall be epoxy coated.

DESIGNED M.H.B.
 CHECKED L.W.K.
 DRAWN Mercado
 CHECKED L.W.K.
 S-2-D 12-1-83

Dec. 28, 1984
 EXAMINED *James T. Robinson*
 PASSED *James T. Robinson*
 APPROVED *James T. Robinson*
 DIRECTOR OF HIGHWAYS

Notes:
 The exterior surfaces of the Floor Drain shall be painted with the vinyl enamel coat painting specified for Structural Steel. The exterior surface of the Aluminum tube shall be cleaned and given a washcoat pretreatment in accordance with Steel Structural Painting Council's Spec. SSPC-SPI & SSPC-Paint 27 prior to painting.
 Fiberglass pipe shall conform to ASTM: D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of band inhibiting agents.

Notes: For details of c2(E) and c3(E) bars see sheet #23.
 For details of b21(E) and d4(E) bars see sheet #62.

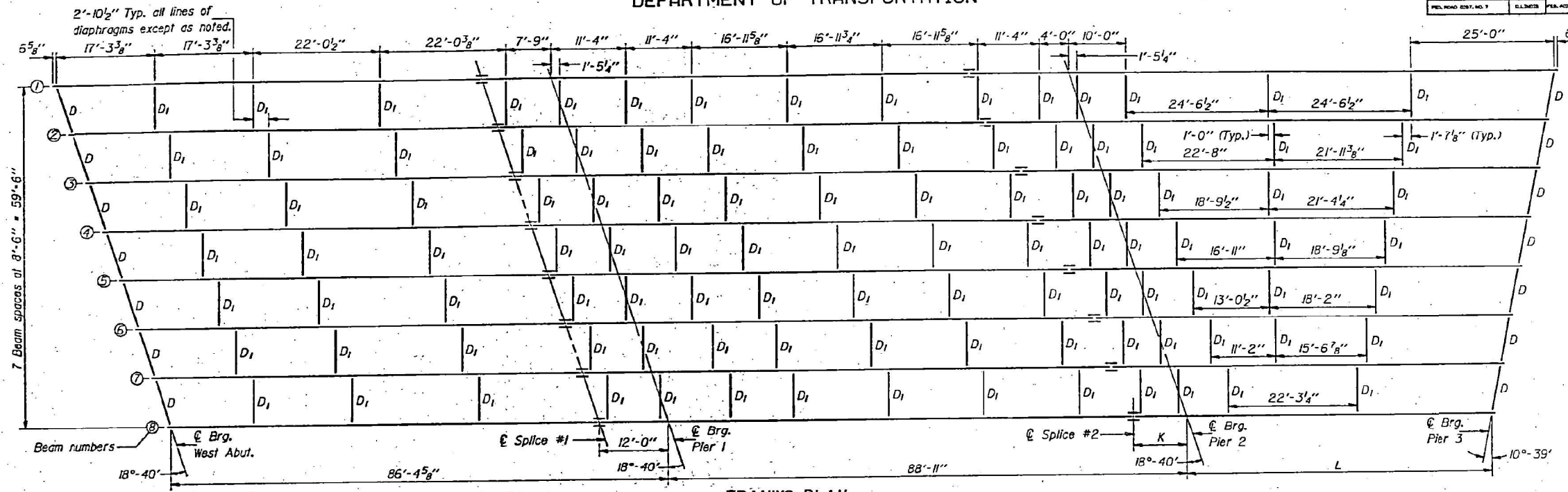
AS REVISED 9-30-85 T.E.A.
SUPERSTRUCTURE DETAILS
F.A.U. RTE. 6757 SEC. (104 VB) BR
TAZEWELL COUNTY
STA. 21+88.83

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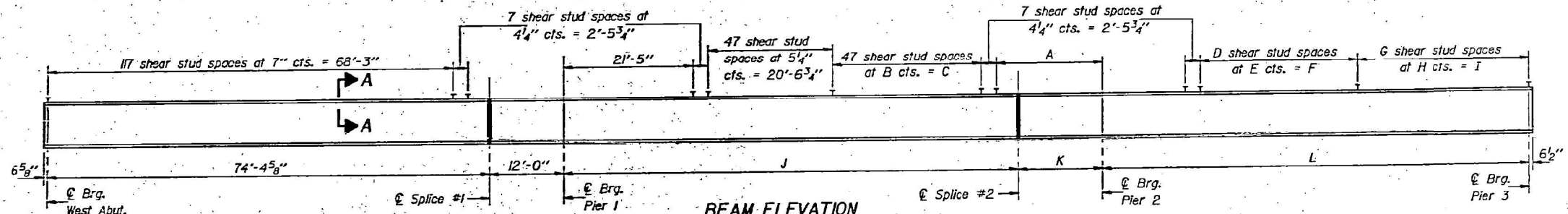
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

DESIGN NO.	SECTION	QUANTITY	SHEET NO.	SHEET	SHEET NO. 30
6757	ER	TAZEWELL	89	55	64 SHEETS
FED. ROAD DIST. NO. 1	CLINCH	FED. AID PROJECT			

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



FRAMING PLAN



BEAM ELEVATION
 All Beams are W36x182

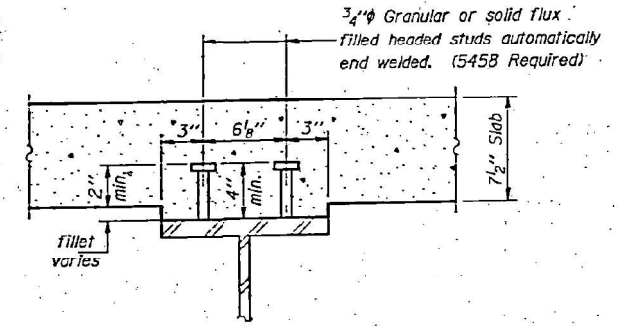
TOP OF FLANGE ELEVATIONS

Beam	© Brg. W. Abut.	Splice #1	© Pier 1	Splice #2	© Pier 2	© Brg. Pier 3
1	496.42	499.81	500.21	502.77	503.17	505.10
2	496.71	500.07	500.47	503.00	503.40	505.22
3	496.99	500.32	500.71	503.31	503.63	505.33
4	497.27	500.57	500.96	503.52	503.84	505.44
5	497.31	500.59	500.96	503.56	503.83	505.31
6	497.32	500.57	500.94	503.55	503.77	505.16
7	497.33	500.54	500.91	503.49	503.71	504.99
8	497.29	500.48	500.84	503.41	503.61	504.79

* For fabrication only.

TABLE OF DIMENSIONS

Beam	A	B	C	D	E	F	G	H	I	J	K	L
1	20'-5 1/4"	5 1/2"	21'-6 1/2"	55	7"	32'-8"	58	7"	33'-10"	71'-9"	17'-2"	84'-1"
2	20'-5 1/4"	5 1/2"	21'-6 1/2"	53	7"	30'-11"	55	7"	32'-1"	71'-9"	17'-2"	79'-7 3/8"
3	17'-6"	6 1/4"	24'-5 3/4"	47	7"	27'-5"	52	7"	30'-4"	75'-0 1/2"	13'-10 1/2"	75'-1 1/2"
4	17'-6"	6 1/4"	24'-5 3/4"	47	6 3/8"	25'-11 3/8"	49	7"	28'-7"	75'-0 1/2"	13'-10 1/2"	70'-8 1/8"
5	14'-6 3/4"	7"	27'-5"	47	5 3/8"	22'-0 3/8"	47	6 3/8"	25'-5 1/4"	77'-4 1/4"	11'-6 3/4"	66'-2 1/2"
6	14'-0 1/8"	7 1/4"	27'-10 1/8"	47	5"	19'-7"	47	6 1/4"	24'-5 3/4"	78'-10 3/8"	10'-0 5/8"	61'-8 1/8"
7	14'-0 1/8"	7 1/4"	27'-10 1/8"	47	4 3/8"	18'-1 3/8"	47	5 3/8"	22'-6 1/4"	78'-10 3/8"	10'-0 5/8"	57'-3 1/4"
8	12'-7 1/4"	7 1/2"	29'-4 1/4"	47	3 1/4"	12'-8 3/4"	47	5 3/8"	21'-0 3/8"	79'-10 3/8"	9'-0 1/8"	52'-9 3/8"



SECTION A-A

DESIGNED *Lance Kild*
 CHECKED *Mary Blesdorf*
 DRAWN *Joe Sutherland*
 CHECKED *MHB*

Dec 28 2024
 EXAMINED *James J. Robinson*
 PASSED *James J. Robinson*
 APPROVED _____

Note: Work this sheet with sheet #31.
 All beams and splice plate material shall be AASHTO M223, Grade 50. The diaphragms and connecting angles shall be AASHTO M183.

STRUCTURAL STEEL - UNIT #1
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
12-1-18	B.R.	TAZEWELL	29	56
FILE NO.	PROJECT NO.	BLANK	PROJECT NO.	BLANK

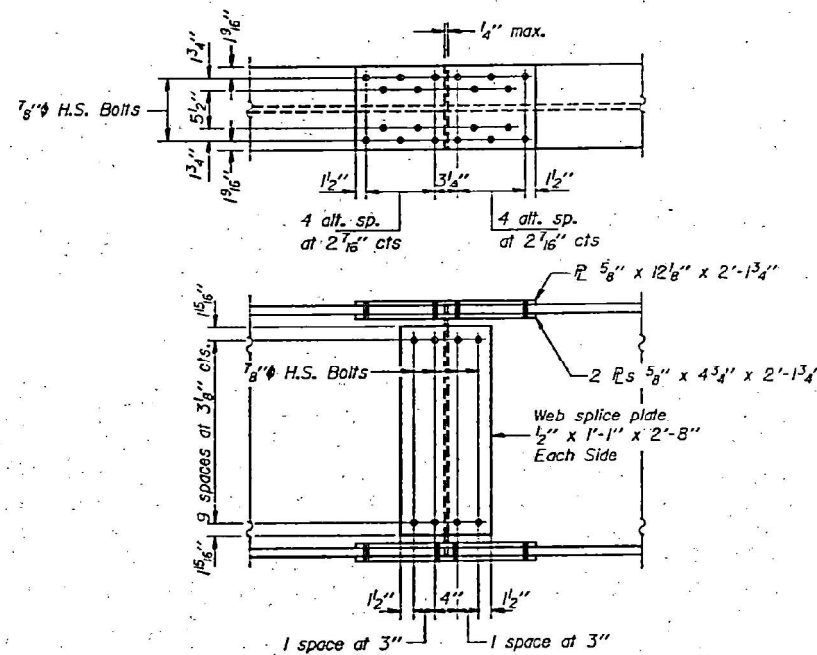
SHEET NO. 31
64 SHEETS

INTERIOR BEAM MOMENT TABLE					
	.4 Span 1	Pier 1	.5 Span 2	Pier 2	.6 Span 3
I_s	11,300	11,300	11,300	11,300	11,300
I_c	26,555		26,665		26,665
S_s	623	623	623	623	623
S_c	862		862		862
Z	718	718	718	718	718
U	1.035	1.474	1.035	1.474	1.035
M_R	609	1077	337	1024	573
M_S	439		439		439
M_{SR}	284		201		268
M_A	852	514	739	492	819
M (Imp)	202	121	170	115	194
$M_3(M+I)$	1757	1058	1515	1013	1688
M_0	3445	2776	2669	2648	3288
M_u	4725	2992	4725	2992	4725
f_s non-comp (k.s.i.)	11.7	20.7	6.5	19.7	11.0
f_s comp (k.s.i.)	4.0		2.8		3.7
$f_s^{2/3}(k+1)$ (k.s.i.)	24.5	20.4	21.9	19.5	23.5
f_s (Overload) (k.s.i.)	40.2	41.1	31.2	39.2	38.2
VR	65.0		55.8		64.5

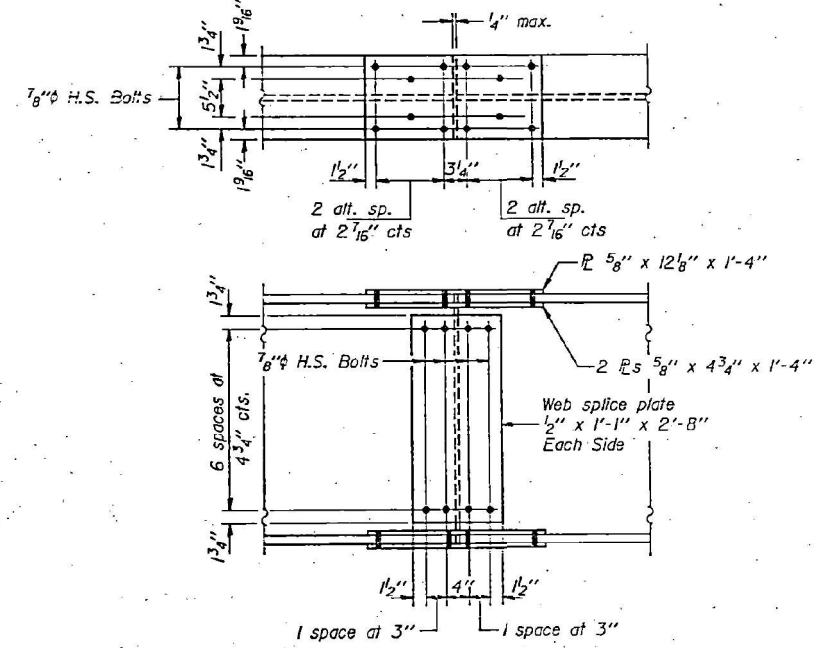
INTERIOR BEAM REACTION TABLE				
	West Abut.	Pier 1	Pier 2	Pier 3
RP	51.3	147.8	139.0	49.8
RL	48.7	69.4	68.9	48.5
Imp.	11.5	16.2	15.3	11.5
R (Total)	111.5	233.4	224.2	109.8

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 VR is the maximum Live Load + Impact shear range in span.
 Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
 M_0 (Applied Moment) = $L_3 M_R + M_{SR} + S_3(M_L + I)$.
 M_u (Full Plastic Moment Capacity for Compact, Braced section) is computed according to AASHTO 1.7.5.9(A) and 1.7.6.2(A).
 f_s (Overload) is the sum of the stresses due to $M_R + M_{SR} + S_3 M_L + I$.

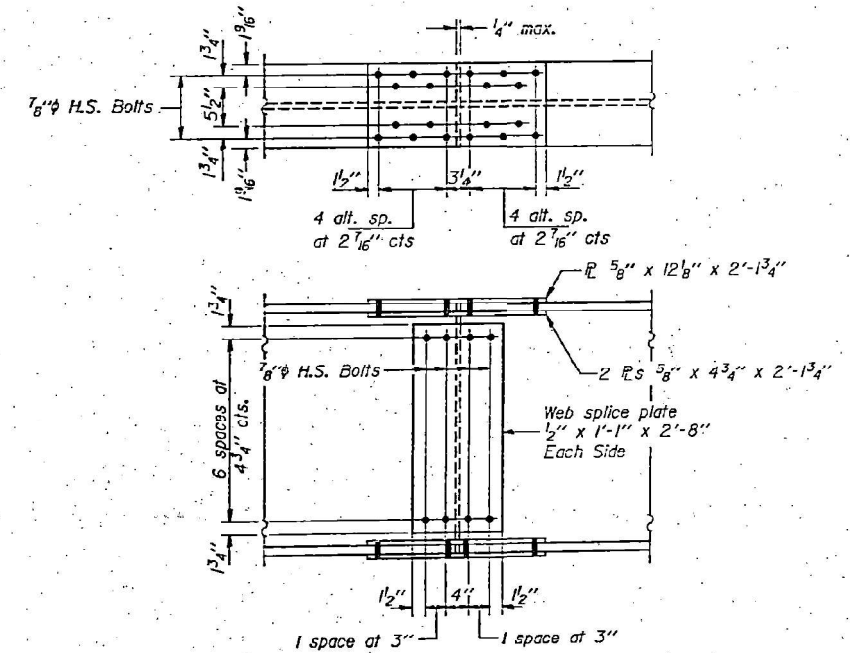
The tabulated moments shears and reactions are the maximums taken from the individual beam data.



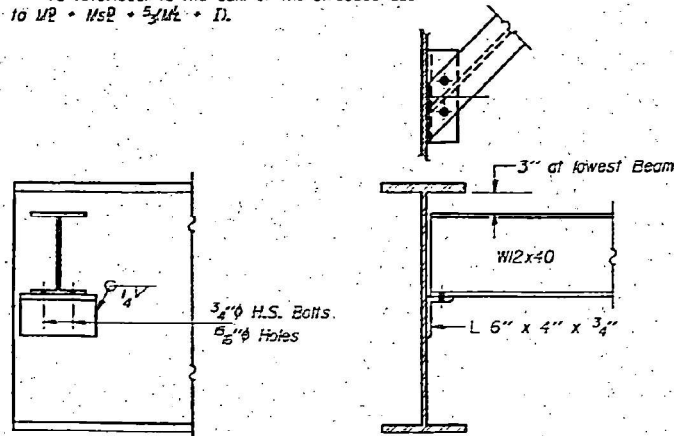
SPLICE #1



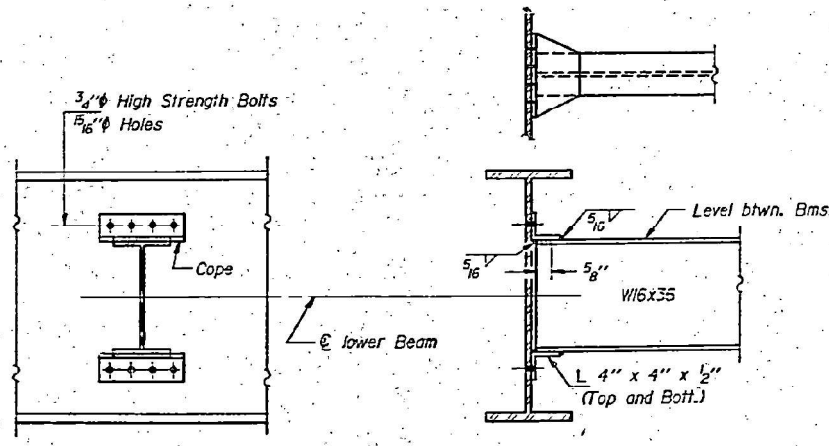
SPLICE #2
Beam 8



SPLICE #2
Beams 1 thru 7



DIAPHRAGM D
(14 Required)



DIAPHRAGM D1
(104 Required)

Note: Two hardened washers shall be required over all 5/8 inch holes. Work this sheet with sheet #30.

DESIGNED	James J. Sutherland	EXAMINED	James J. Sutherland
CHECKED	Mary Blordorf	PASSED	James J. Sutherland
DRAWN	Joe Sutherland	APPROVED	James J. Sutherland
CHECKED	IAHE		

DEC 28 1984

STRUCTURAL STEEL - UNIT #1
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83

FOR INFORMATION ONLY
 LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
 SN 090-0037

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET SIZE	SHEET NO. 32a
ILL. 6757	104VB BR	TAZEWELL	89	37	64 SHEETS

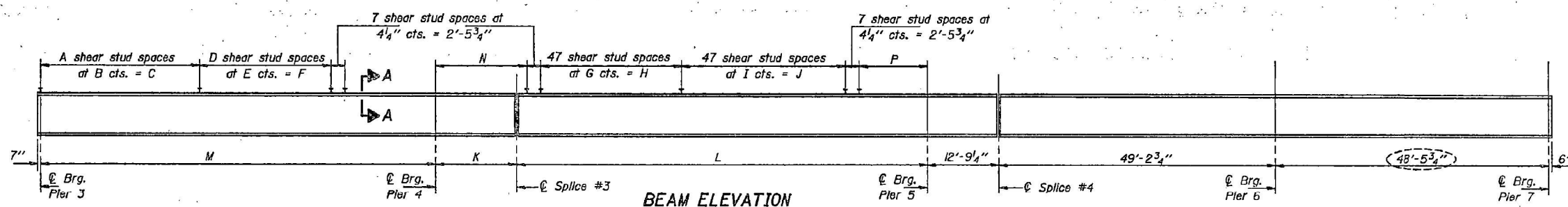
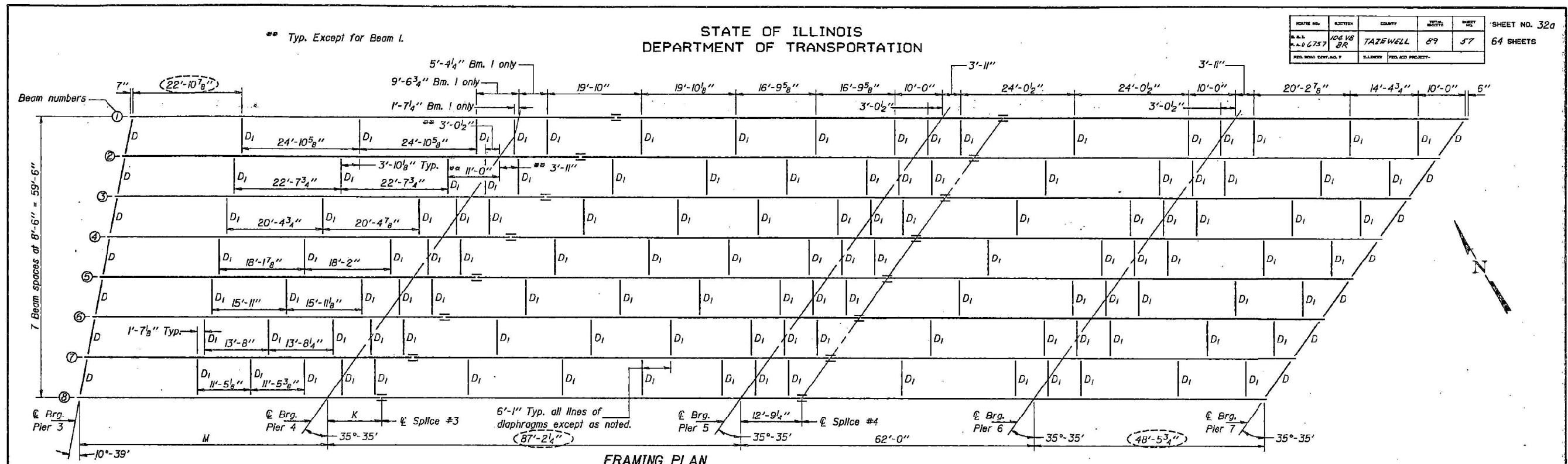


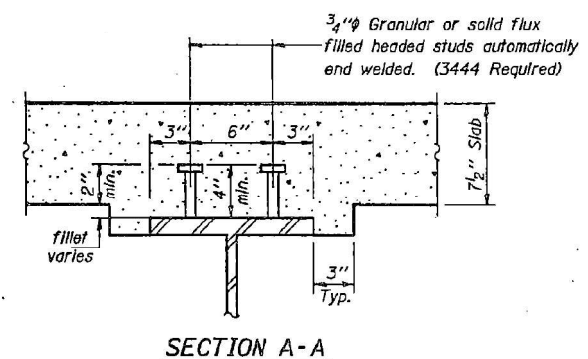
TABLE OF DIMENSIONS

Beam	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
1	58	7"	33'-10"	53	7"	30'-11"	53	21'-0 5/8"	7 3/8"	28'-10 5/8"	19'-9"	68'-10 1/2"	82'-2 1/4"	21'-6 1/2"	12'-2 1/4"
2	54	7"	31'-6"	50	7"	29'-2"	5 3/4"	22'-6 1/8"	7 3/8"	28'-10 5/8"	17'-0"	70'-2 1/4"	74'-8 1/2"	18'-6 1/2"	12'-3 3/8"
3	52	7"	30'-4"	47	6 3/4"	26'-5 1/4"	6"	23'-6"	7 3/8"	28'-10 5/8"	15'-8 3/4"	71'-5 1/2"	75'-0 1/2"	17'-5 1/4"	12'-4 1/4"
4	49	7"	28'-7"	47	6"	23'-6"	6 3/8"	24'-11 3/8"	7 3/8"	28'-10 5/8"	14'-5 3/4"	72'-8 1/2"	70'-2 3/4"	16'-3 1/4"	12'-1 1/4"
5	47	6 3/4"	26'-5 1/4"	47	5 1/2"	21'-6 1/2"	6 3/8"	25'-11 3/8"	7 1/4"	28'-4 3/4"	13'-4 1/4"	73'-10 1/8"	65'-9"	15'-1 1/2"	12'-9"
6	47	4 3/4"	18'-7 1/4"	47	6 1/4"	24'-5 3/4"	6 1/8"	26'-11 3/8"	7 1/4"	28'-4 3/4"	12'-6 1/4"	74'-7 1/2"	61'-3 1/2"	14'-4 1/4"	12'-6 3/8"
7	47	4 1/2"	17'-7 1/2"	47	5 1/4"	20'-6 3/4"	7"	27'-5"	7 1/4"	28'-4 3/4"	11'-11 3/8"	75'-2 1/8"	56'-9 3/8"	13'-8 1/4"	12'-8 1/8"
8	47	4"	15'-8"	47	4 1/4"	16'-7 3/4"	7 1/8"	27'-10 1/8"	7 1/4"	28'-4 3/4"	11'-5 3/8"	75'-9 1/8"	52'-3 1/2"	13'-2 1/2"	12'-8 1/2"

*** TOP OF FLANGE ELEVATIONS**

Beam	¢ Brg. Pier 3	¢ Pier 4	Splice #4	¢ Pier 5	Splice #5	¢ Pier 6	¢ Brg. Pier 7
1	505.13	505.67	505.79	505.39	505.32	504.34	503.37
2	505.25	505.81	505.94	505.59	505.53	504.64	503.74
3	505.36	505.93	506.06	505.78	505.73	504.91	504.09
4	505.47	506.05	506.17	505.95	505.92	505.17	504.42
5	505.34	505.91	506.05	505.89	505.87	505.21	504.56
6	505.18	505.75	505.88	505.80	505.78	505.21	504.65
7	505.02	505.58	505.70	505.69	505.69	505.19	504.70
8	504.82	505.36	505.48	505.54	505.55	505.10	504.65

* For fabrication only.



DESIGNED L.W.K.
 CHECKED M.H.B.
 DRAWN Joe Sutherland
 CHECKED M.H.B.

Dec 28, 1984
 EXAMINED [Signature]
 PASSED [Signature]
 APPROVED [Signature]

Note: Work this sheet with sheet #33.
 All beams and splice plate material shall be AASHTO M223, -Grade 50. The diaphragms and connecting angles shall be AASHTO M163.

AS REVISED 9-30-85 T.E.A.
 STRUCTURAL STEEL - UNIT #2
 F.A.U. RT. 6757 SEC. (104VB)BR
 TAZEWELL COUNTY
 STATION 21+88.83



TWM, INC.
 WWW.TWM-INC.COM
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION			
SN 090-0037			
SCALE: N/A	SHEET 10	OF 25 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	101
			CONTRACT NO. 68K62	
			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

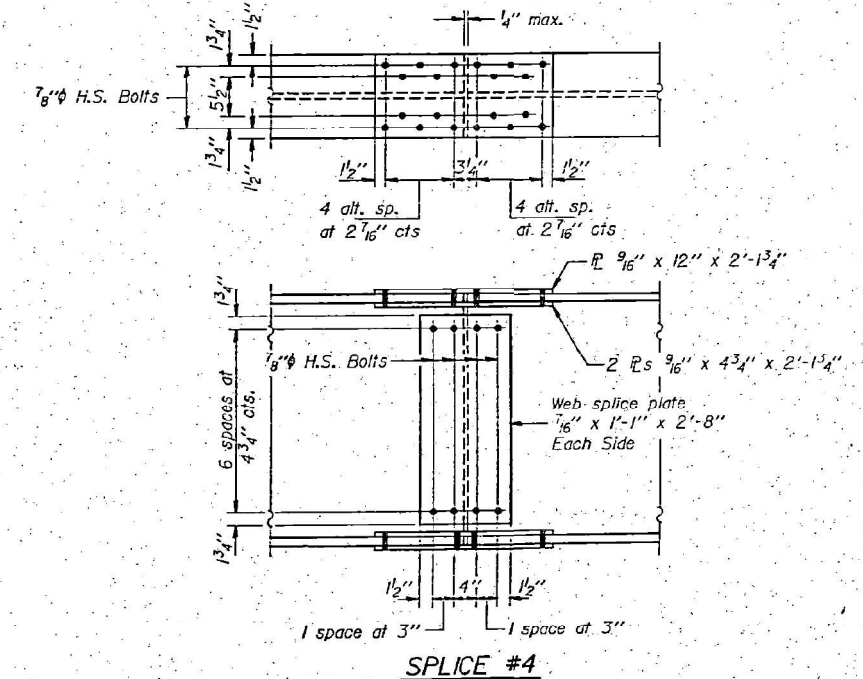
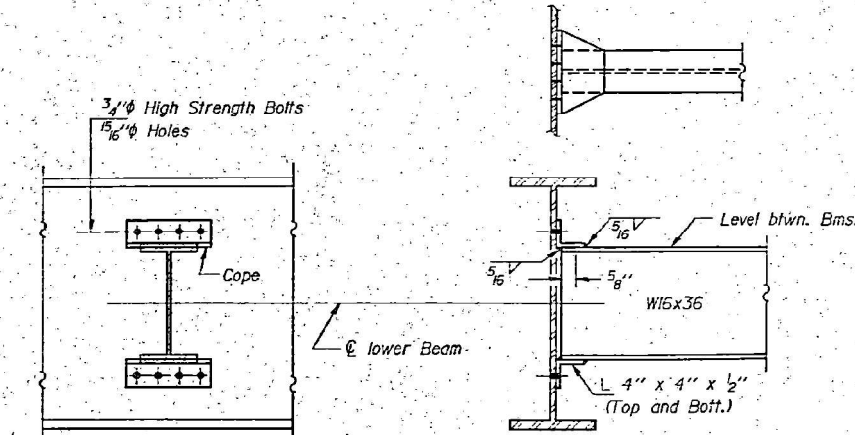
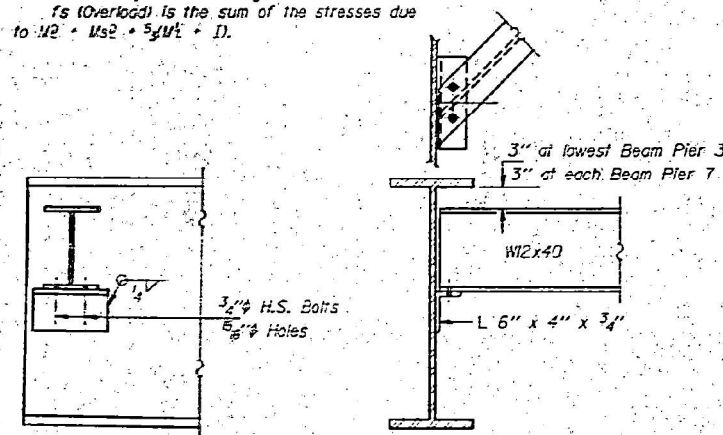
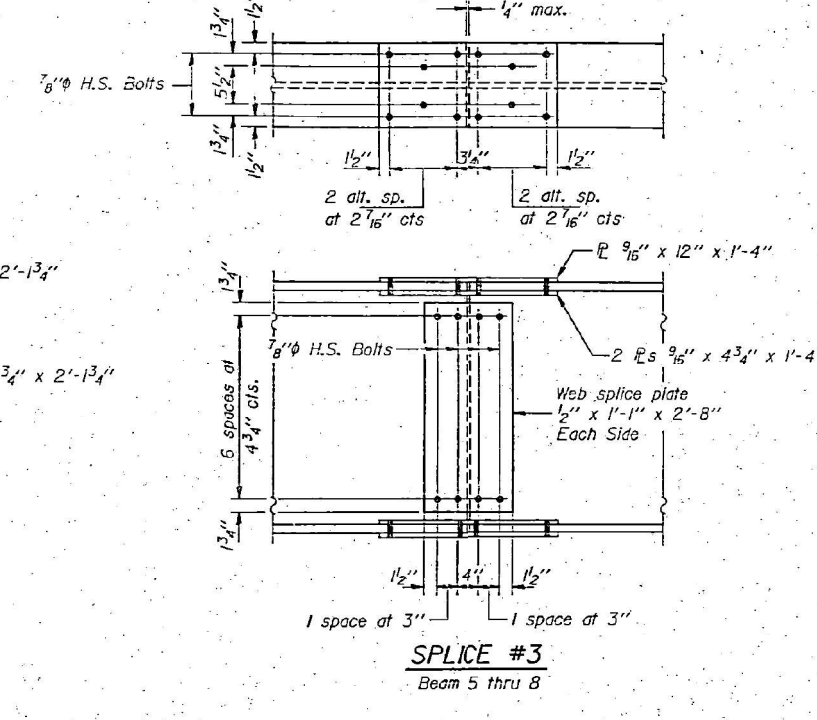
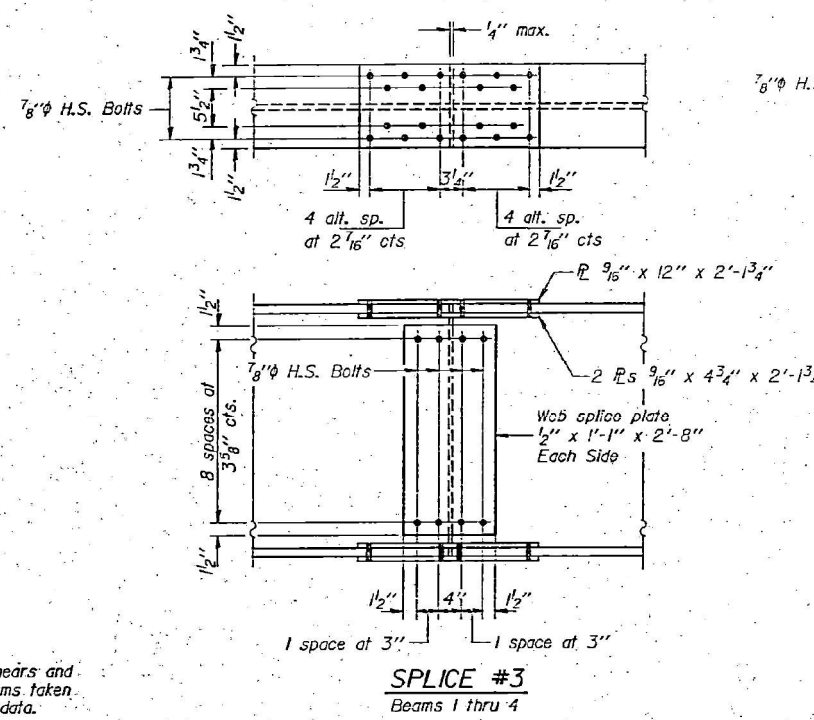
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 33 64 SHEETS
6757	BR	TAZEWELL	89	58	
FED. AID DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

		.4 Span 4	Pier 4	.5 Span 5	Pier 5	.5 Span 6	Pier 6	.6 Span 7
I_s	(in ⁴)	10,500	10,500	10,500	10,500	10,500	10,500	10,500
I_c	(in ⁴)	25,155		25,155				
S_s	(in ³)	580	580	580	580	580	580	580
S_c	(in ³)	807		807				
Z	(in ³)	668	668	668	668	668	668	668
M	(K/ft.)	1,021	1,459	1,021	1,459	1,459	1,459	1,459
M_p	(K)	556	1,102	410	745	169	415	288
M_{p2}	(K)	439		439				
M_{s2}	(K)	273		221				
M_L	(K)	827	485	725	412	414	340	408
M_{Imp}	(K)	199	15	173	99	99	82	98
$M_{5/8I-1}$	(K)	1710	1022	1497	852	855	703	843
M_G	(K)	3301	2755	2766	2076	1331	1453	1470
M_U	(K)	4441	2783	4441	2783	2783	2783	2783
f_{s2} non-comp. (k.s.l.)		11.5	22.8	8.5	15.4	3.5	8.6	6.0
f_{s2} (comp) (k.s.l.)		4.1		3.3				
$f_{s2}(I+I)$ (k.s.l.)		25.4	20.7	22.3	17.6	17.7	14.5	17.4
f_s (Overload) (k.s.l.)		41	43.5	34.1	33	21.2	23.1	23.4
V_R	(K)	64		68				

		Pier 3	Pier 4	Pier 5	Pier 6	Pier 7
R_P	(K)	49.2	143.9	114.4	86.4	29.0
R_I	(K)	48.5	69.1	61.3	54	43.2
$Imp.$	(K)	11.5	10.7	7.8	8.7	12.3
R (Total)	(K)	109.2	223.7	183.5	149.1	84.5

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 V_R is the maximum Live Load + Impact shear range in span.
 Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
 M_a (Applied Moment) = $1.3IM_B + M_s + \frac{5}{8}M_L + I$.
 M_U (Full Plastic Moment Capacity for Compact, Braced section) is computed according to AASHTO 1.7.59(A) and 1.7.62(A).
 f_s (Overload) is the sum of the stresses due to $M_L + M_s + \frac{5}{8}M_U + I$.

The tabulated moments shears and reactions are the maximums taken from the individual beam data.



DESIGNED *James K. Kish*
CHECKED *Mary Blaxdorf*
DRAWN *Joe Sutherland*
CHECKED *MHB*

EXAMINED *James J. Kish*
PASSED *James J. Kish*
APPROVED *James J. Kish*
ENGINEER OF STRUCTURES

DEC 28, 1984

Note: Two hardened washers shall be required over all 3/8 inch holes. Work this sheet with sheet #32.

STRUCTURAL STEEL - UNIT #2
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83

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FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	POST	SHEET NO. 34 of 64 SHEETS
F.A.U. 6757	104 VB BR	TAZEWELL	89	59	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

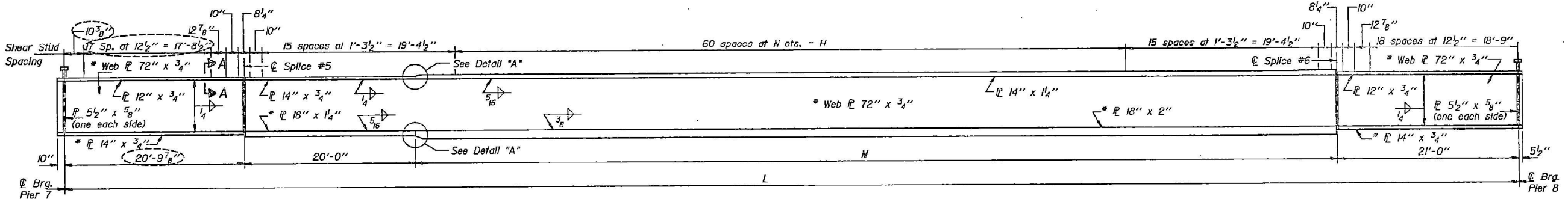
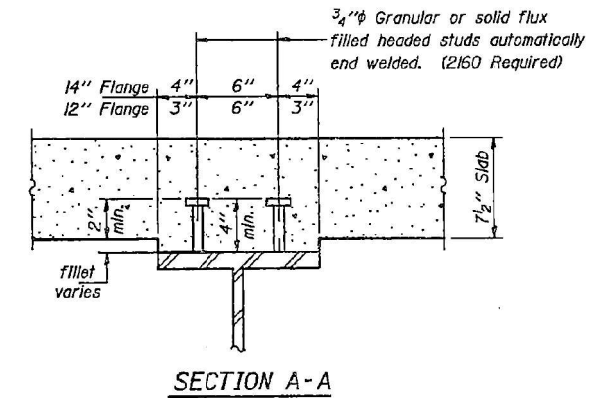
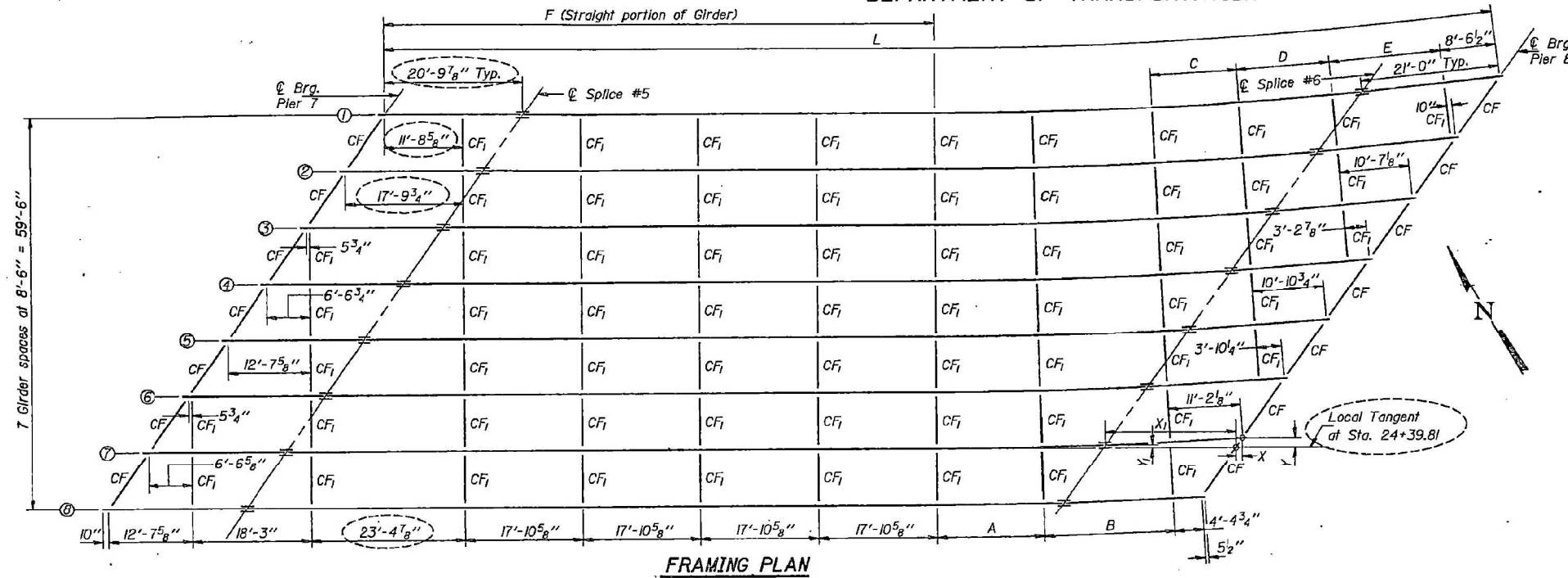


TABLE OF GIRDER DIMENSIONS

Girder	Radius	A	B	C	D	E	F	H	L	M	N
1	689.697	14'-7 1/8"	18'-0 1/2"	13'-3 1/8"	14'-2 3/8"	16'-11 1/2"	83'-3 1/8"	86'-0 1/8"	169'-0"	107'-2 1/8"	1'-5 3/8"
2	698.197	14'-10"	18'-3 1/8"	13'-5 3/8"	14'-4 1/8"	17'-2"	89'-4 1/8"	85'-4 1/8"	168'-4"	106'-6 1/8"	1'-5 1/8"
3	706.697	15'-0 1/8"	18'-5 3/8"	13'-7 3/8"	14'-7"		95'-5 3/8"	84'-10"	167'-9 1/8"	105'-11 1/8"	1'-4 1/8"
4	715.197	15'-2 1/8"	18'-8 1/8"	13'-9 3/8"	14'-9 1/8"		101'-6"	84'-3 3/8"	167'-2 1/8"	105'-5 1/8"	1'-4 1/8"
5	723.697	15'-4 1/8"	18'-11 1/8"	13'-11 3/8"			107'-7"	83'-10 1/8"	166'-9 1/8"	104'-11 1/8"	1'-4 3/8"
6	732.197	15'-6 1/8"	19'-1 1/8"	14'-1 3/8"			113'-8"	83'-5 1/8"	166'-4 1/8"	104'-6 3/8"	1'-4 1/8"
7	740.697	15'-8 1/8"	19'-4 1/8"				119'-9"	83'-1 1/8"	166'-0 1/8"	104'-2 1/8"	1'-4 1/8"
8	749.197	15'-11"	19'-7 1/8"				125'-10"	82'-10"	165'-9 1/8"	103'-11 1/8"	1'-4 3/8"

GIRDER ELEVATION
 * Notch Toughness requirements are required for these plates.

*** TOP OF WEB ELEVATIONS**

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8
Brq. Pier 7 (Span 8)	503.24	503.61	503.97	504.30	504.45	504.54	504.60	504.55
Splice #5	502.79	503.21	503.59	503.97	504.16	504.32	504.44	504.43
Splice #6	497.45	498.15	498.83	499.47	500.04	500.56	501.05	501.27
Brq. Pier 8 (Span 8)	496.23	496.97	497.69	498.38	499.02	499.61	500.15	500.40

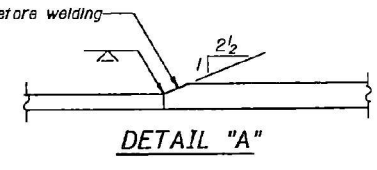
* For fabrication only. Elevations at splices have been adjusted for camber.

LAYOUT DIMENSIONS

Girder	Splice #6		Pier 8	
	X ₁	Y ₁	X	Y
1	17'-0 1/8"	3'-0 1/2"	3'-9 3/4"	5'-3 1/8"
2	17'-8 1/2"	2'-4 1/8"	3'-2 3/8"	4'-5 1/8"
3	18'-3 1/4"	1'-10 3/8"	2'-7 3/8"	3'-8 1/8"
4	18'-9 3/4"	1'-4 3/8"	2'-1 1/8"	3'-0 1/4"
5	19'-2 1/2"	1'-0 1/8"	1'-8 3/4"	2'-5"
6	19'-7 3/8"	8 1/4"	1'-4 1/4"	1'-10 3/4"
7	19'-11 1/4"	5 1/8"	1'-0 3/8"	1'-5 3/8"
8	20'-2 3/8"	2 1/8"	9 1/8"	1'-0 3/4"

DESIGNED **M.H.B.**
 CHECKED **R.F.R.**
 DRAWN **Joe Sutherland**
 CHECKED **R.F.R.**

Dec. 28, 1984
 EXAMINED **James J. Robinson**
 PASSED **James J. Robinson**
 APPROVED _____
 DIRECTOR OF HIGHWAYS



Notes: Dimensions are along girders.
 Work this sheet with sheet #35.
 All structural steel shall be AASHTO M223, Grade 50.

AS REVISED 9-30-85 T.E.A.
STRUCTURAL STEEL - UNIT #3
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

SCALE: N/A	SHEET 12 OF 25 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	103
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68K62	

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DATE	SECTION	QUANTITY	REVISIONS	SHEET
10/28/85	BR	TAZEWELL	89	60
SHEET NO. 35 of 64 SHEETS				

INTERIOR GIRDER MOMENT TABLE

Is	(in ⁴)	91,658
Ic	(in ⁴)	195,236
Ss	(in ³)	2903
Sc	(in ³)	3789
Q	(K/ft.)	1,208
MR	(K)	4,322
sR	(K/ft.)	.428
MsR	(K)	1531
Mt	(K)	2,359
M (Imp)	(K)	401
S ₁ (M _t +I)	(K)	4,600
M ₀	(K)	13,589
f _s R non-comp (k.s.i.)		17.9
f _s R (comp) (k.s.i.)		4.8
f _s S ₁ (k+I) (k.s.i.)		14.6
f _s (Overload) (k.s.i.)		37.3
f _s (Total) (k.s.i.)		48.5
VR	(K)	72.5

INTERIOR GIRDER REACTION TABLE

Pier 7 and Pier 8		
R _R	(K)	151.7
R _L	(K)	61.4
Imp.	(K)	10.4
R (Total)	(K)	223.5

Is and Ss are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 Ic and Sc are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 VR is the maximum Live Load + Impact shear range in span.
 M₀ (Applied Moment) = L₃MR + MsR + S₁(M_t + I).
 f_s (Total) (Non-compact section) is the sum of the stresses due to L₃MR + MsR + S₁(M_t + I).
 f_s (Overload) is the sum of the stresses due to MR + MsR + S₁(M_t + I).

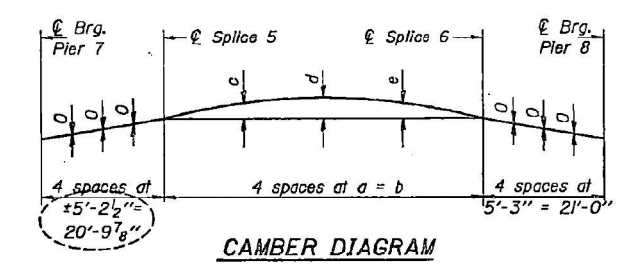
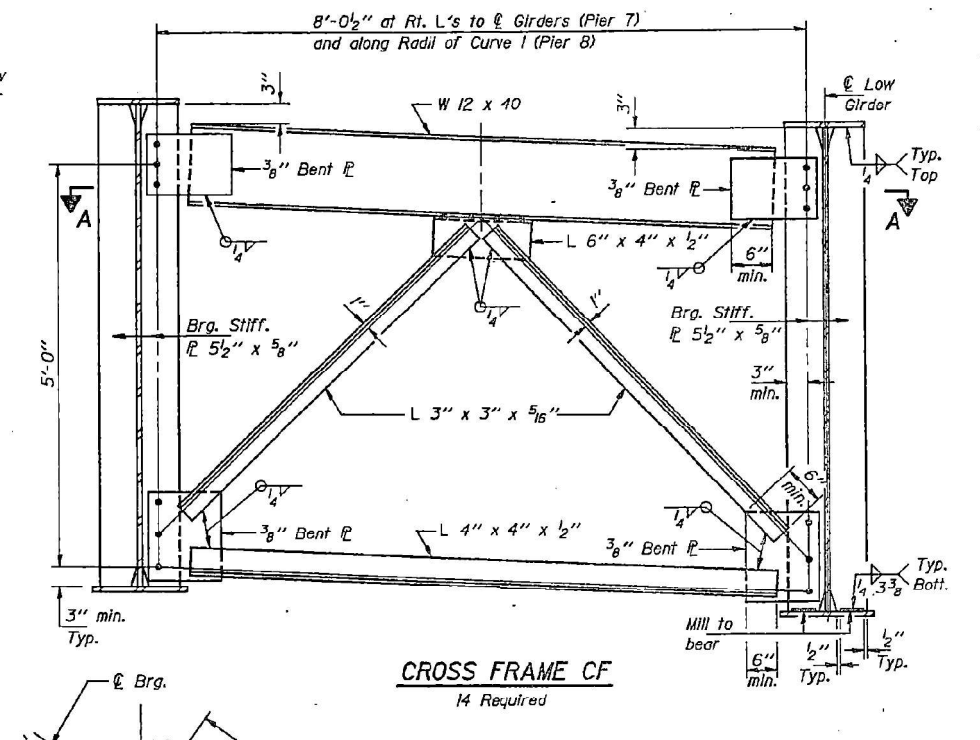
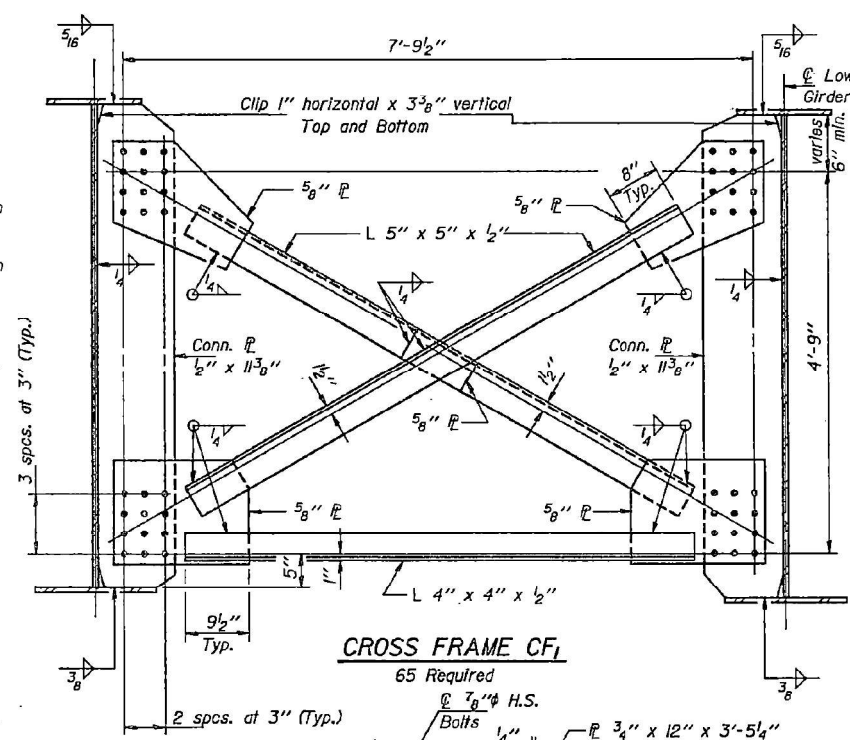
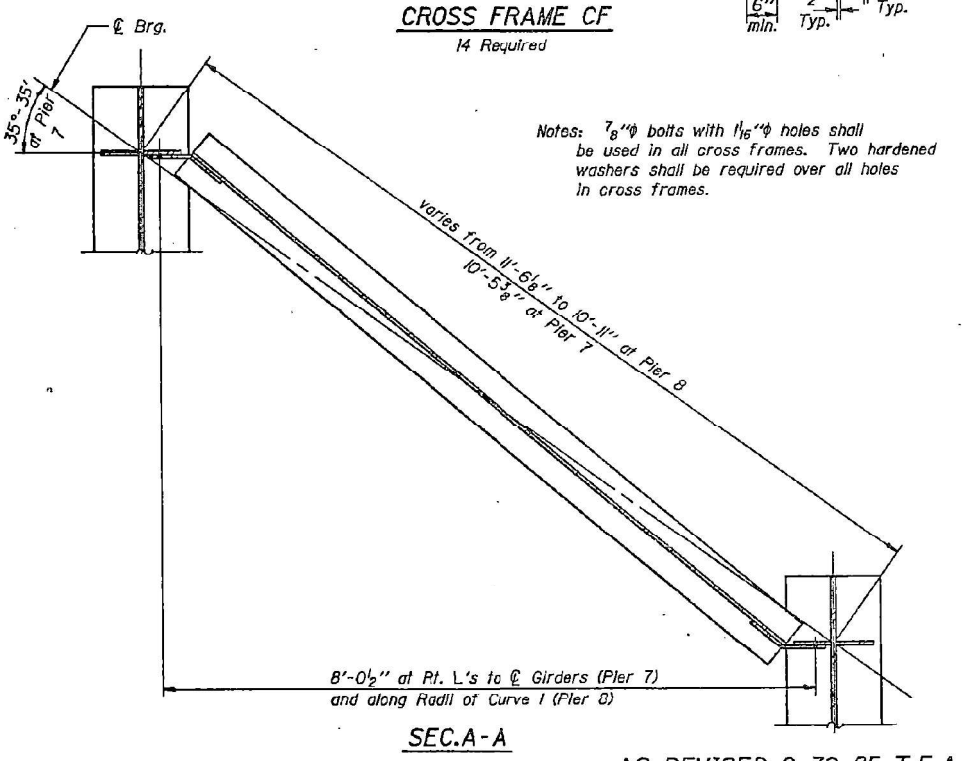
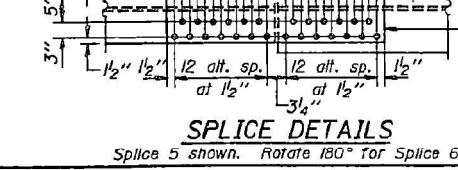
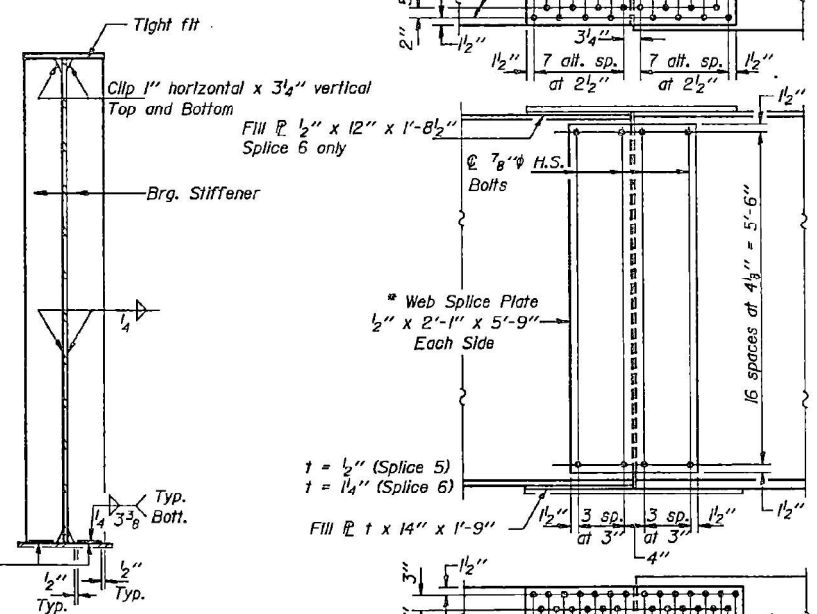


TABLE OF DIMENSIONS FOR CAMBER DIAGRAM

Girder	a	b	c	d	e
1	±31'-9 1/2"	127'-2 1/4"	7 1/8"	10 1/8"	8 1/8"
2	±31'-7 1/2"	126'-6 3/8"	7 1/8"	10 1/8"	7 1/8"
3	±31'-5 1/2"	125'-11 1/4"	7 1/8"	9 1/8"	7 1/8"
4	±31'-4 1/2"	125'-5"	7 1/8"	9 1/8"	7 1/8"
5	±31'-2 1/2"	124'-11 3/8"	6 1/8"	9 1/8"	7 1/8"
6	±31'-1 1/2"	124'-6 3/4"	7 1/8"	9 1/8"	7 1/8"
7	±31'-0 1/2"	124'-2 5/8"	7 1/8"	9 1/8"	7 1/8"
8	±30'-11 1/2"	123'-11 1/4"	7 1/8"	9 1/8"	7 1/8"



Notes: 7/8" bolts with 1/16" holes shall be used in all cross frames. Two hardened washers shall be required over all holes in cross frames.

DESIGNED M.H.B.
 CHECKED R.F.R.
 DRAWN Joe Sutherland
 CHECKED R.F.R.

EXAMINED *James J. Kowalski*
 PASSED *James J. Kowalski*
 APPROVED *James J. Kowalski*
 DIRECTOR OF HIGHWAYS

BEARING STIFFENERS AT PIERS

SPLICE DETAILS
 Splice 5 shown. Rotate 180° for Splice 6.

AS REVISED 9-30-85 T.E.A.
STRUCTURAL STEEL - UNIT #3
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83

MODEL D:\4111... TWM, INC. ENGINEERING GEOSPATIAL SERVICES



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	104
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 13 OF 25 SHEETS STA. TO STA.

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
F.A.U. 6757	104 VB	TAZEWELL	89	61	64 SHEETS
SHEET NO. 360					

TABLE OF BEAM DIMENSIONS

Beam	Radius	L	A	B	C	D	E	F	G
1	689.697'	56'-11 1/2"				12'-3 1/2"	16'-0 1/2"	17'-2 1/2"	7 1/2"
2	698.197'	55'-5 3/4"				12'-10"	16'-2 1/4"	17'-5 3/4"	10"
3	706.697'	54'-10 1/2"				14'-10"	13'-4 1/4"	16'-5 1/4"	9 1/2"
4	715.197'	54'-3"				14'-7 1/4"	13'-11 3/4"	16'-7 5/8"	9 1/2"
5	723.697'	53'-8 3/8"				15'-0 1/2"	14'-4 1/8"	14'-6 5/8"	9 3/8"
6	732.197'	53'-2 1/2"				15'-2 1/4"	14'-1 1/8"	15'-1 1/2"	9 1/2"
7	740.697'	52'-8 1/2"	14'-4 1/8"			15'-4 3/4"	13'-10 3/4"		9 1/2"
8	749.197'	52'-2 3/4"	14'-6 1/8"	15'-6 1/2"	13'-8"				6 5/8"

**** TOP OF FLANGE ELEVATIONS**

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
⊙ Brg. Pier 8 (Span 9)	496.169	496.912	497.643	498.340	498.986	499.584	500.140	500.397
⊙ Brg. East Abut.	493.253	494.067	494.863	495.643	496.407	497.156	497.892	498.311

** For fabrication only.

*** LAYOUT DIMENSIONS**

Beam	Pier 8		East Abut.	
	X	Y	X	Y
1	4'-0 5/8"	5'-8"	10'-9 3/4"	15'-1 1/4"
2	3'-5"	4'-9 1/4"	9'-7 3/8"	13'-5 1/4"
3	2'-10 1/2"	3'-11 3/4"	8'-6 1/2"	11'-10 3/4"
4	2'-4"	3'-3 1/2"	7'-6"	10'-5 1/2"
5	1'-10 5/8"	2'-7 3/8"	6'-7"	9'-2 3/8"
6	1'-5 1/2"	2'-1"	5'-8 1/4"	8'-0 1/4"
7	1'-1 1/2"	1'-7 3/8"	4'-11 3/4"	6'-11 3/4"
8	10 3/4"	1'-2 1/2"	4'-3 3/4"	5'-11 3/4"

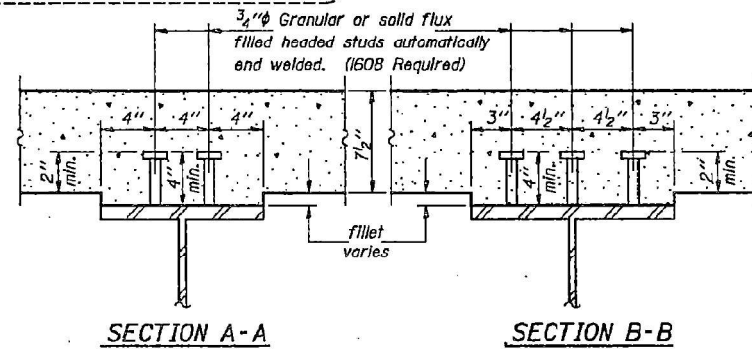
* X dimension is parallel to tangent and Y dimension is perpendicular to tangent.

BEAM MOMENT TABLE		
	Exterior .5 Span	Interior .5 Span
I _s (in ⁴)	10,500	8200
I _c (in ⁴)	25,155	19,450
S _s (in ³)	580	539
S _c (in ³)	807	733
φ	1.017	1.021
M _E (K)	424	412
M _I (K)	357	357
M _{sE} (K)	149	144
M _{sI} (K)	643	639
M (Imp) (K)	159	159
S ₃ (M _t +I) (K)	1337	1330
M _a (K)	2483	2452
f _{sE} non-comp (k.s.i.)	10.3	10.2
f _{sE} (comp) (k.s.i.)	2.8	2.7
f _{sI} (k.s.i.)	24.1	24.1
f _s (Overload) (k.s.i.)	37.2	37.0
f _s (Total) (k.s.i.)	48.4	48.1
F _{bu} (k.s.i.)	50.0	50.0
VR (K)	64.1	64.2

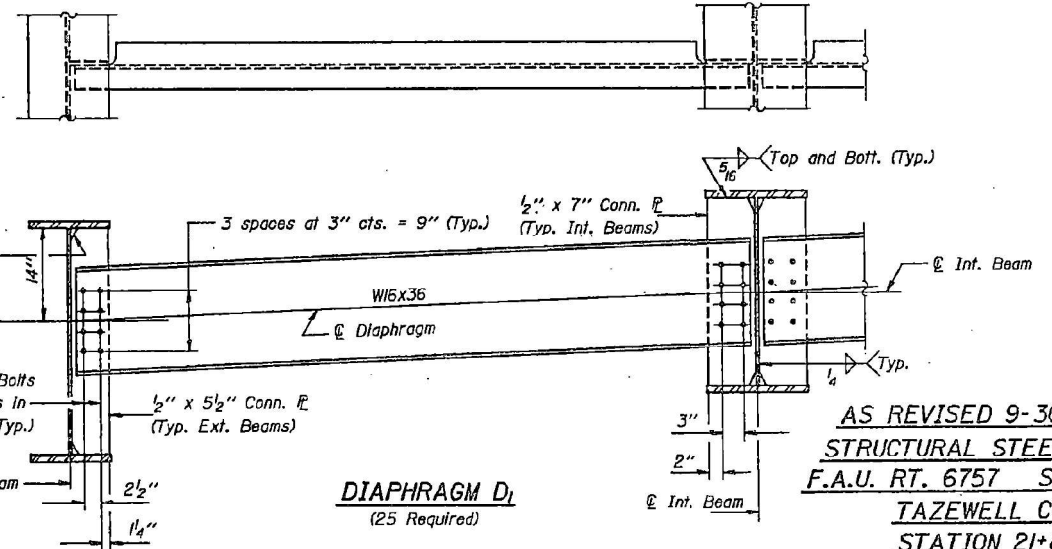
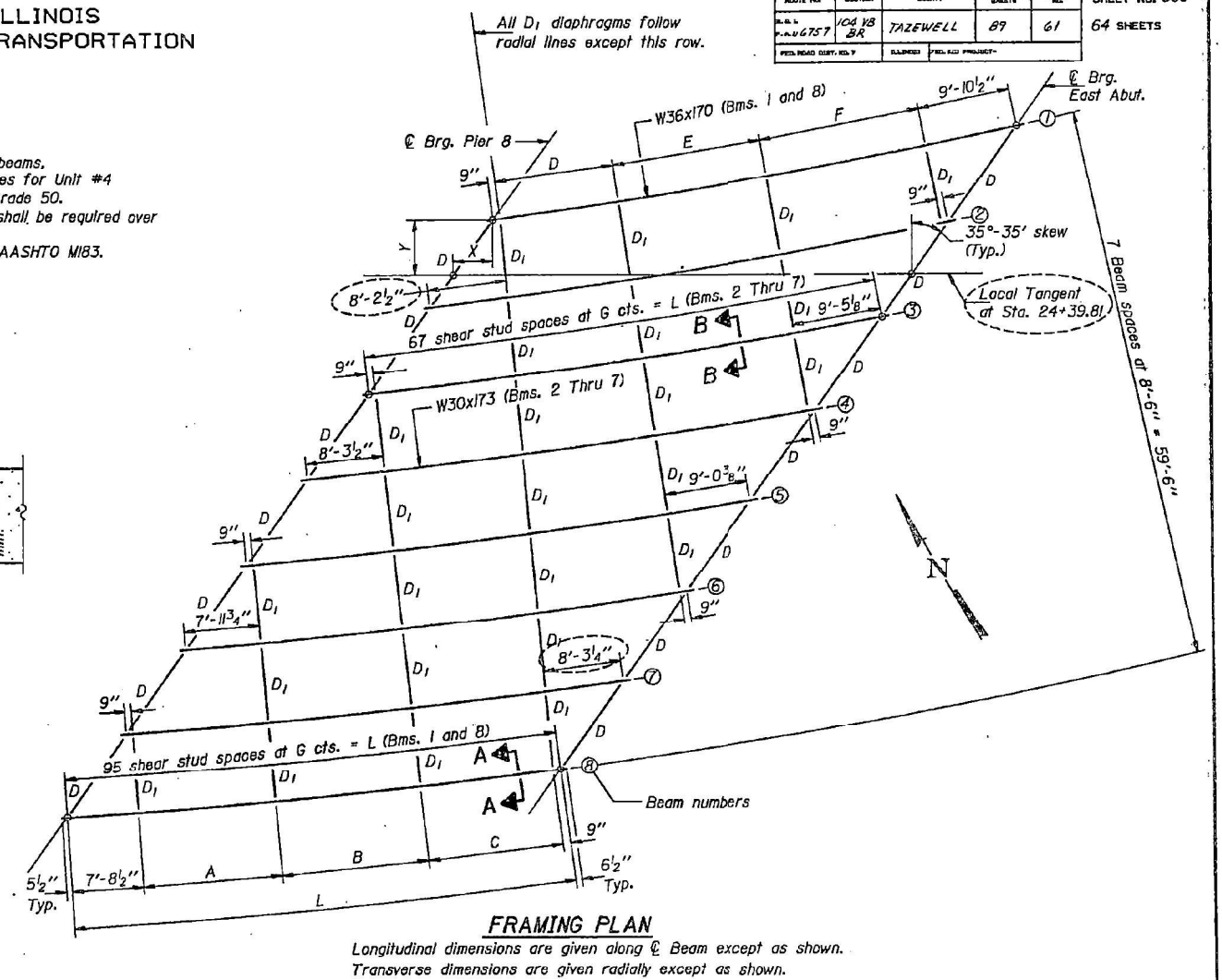
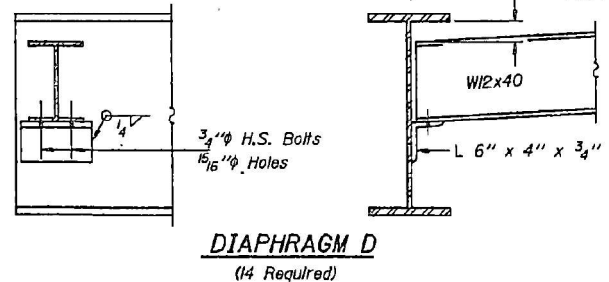
BEAM REACTION TABLE		
	Ext. Bms.	Int. Bms.
R _P (K)	37.4	37.7
R _L (K)	51.3	51.4
Imp. (K)	12.8	12.8
R (Total) (K)	101.5	101.9

DESIGNED *R.A.B.*
 CHECKED *R.F.R.*
 DRAWN *Joe Sutherland*
 CHECKED *R.F.R.*

Dec. 28, 1984
 EXAMINED *James J. Robinson*
 PASSED *James J. Robinson*
 APPROVED *James J. Robinson*
 DIRECTOR OF HIGHWAYS



*** The maximum allowable stress (F_{bu}) is computed according to AASHTO (Guide Specifications for Horizontally Curved Highway Bridges, Section 2.12(B)).
 All moments and reactions except those due to impact include secondary loads.
 All stresses include additional stresses due to torsion.
 I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 VR is the maximum Live Load + Impact shear range in span.
 f_s (Total) is the sum of the stresses due to I_sM_E + M_{sE} + S₃(M_t + I).
 f_s (Overload) is the sum of the stresses due to M_E + M_{sE} + S₃(M_t + I).
 M_a (Applied Moment) = I_sM_E + M_{sE} + S₃(M_t + I).



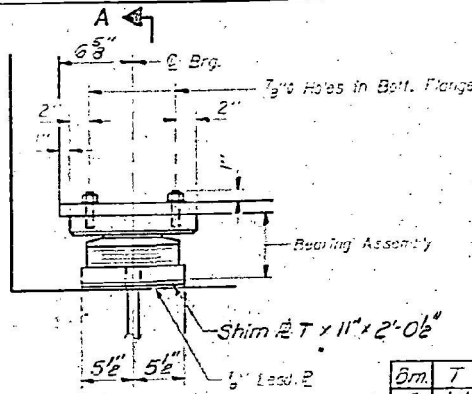
AS REVISED 9-30-85 T.E.A.
 STRUCTURAL STEEL - UNIT #4
 F.A.U. RT. 6757 SEC. (104VB)BR
 TAZEWELL COUNTY
 STATION 21+88.83

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
6757	B2	TAZEWELL	59	62
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

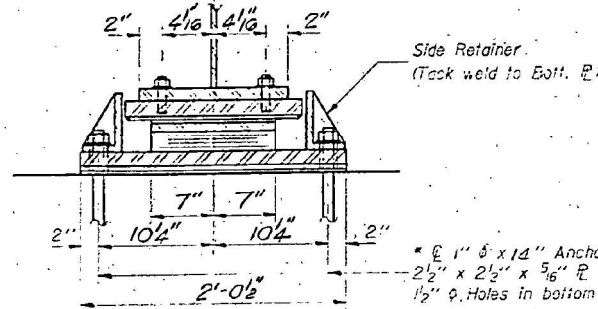
SHEET NO. 37
64 SHEETS



ELEVATION AT V. ABUT.

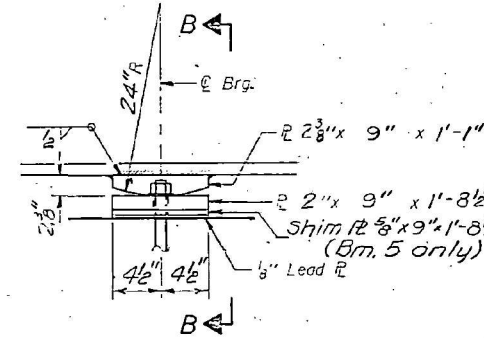
Gr.	7
5	1/2"
6	5/8"
7	3/4"
8	1/4"

TYPE II TFE ELASTOMERIC EXP. BRG.



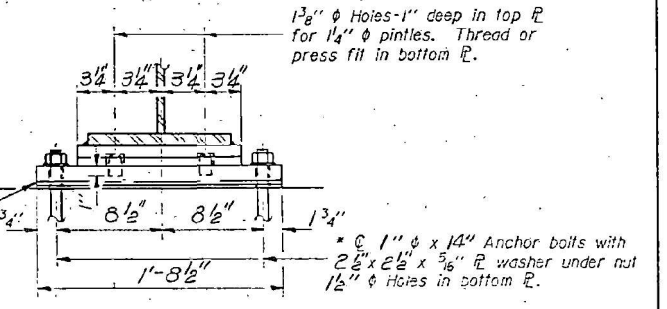
SECTION A-A

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
 See sheet #43 for Anchor Bolt Installation.

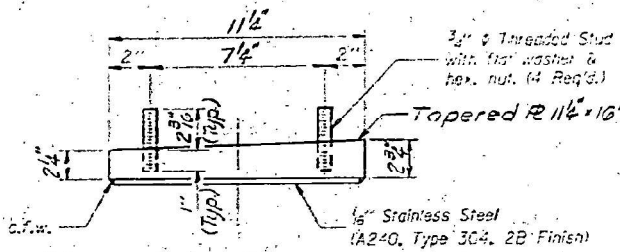


ELEVATION AT PIER 2

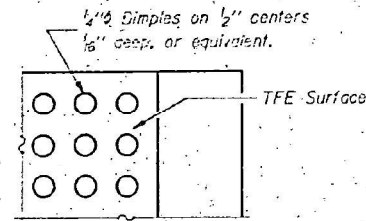
FIXED BEARING



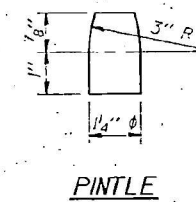
SECTION B-B



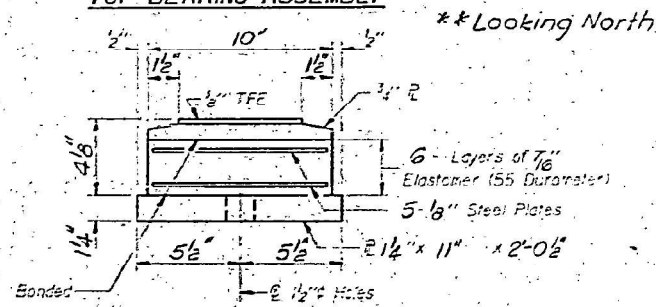
TOP BEARING ASSEMBLY



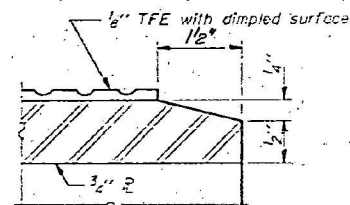
PLAN-TFE SURFACE



PINTLE



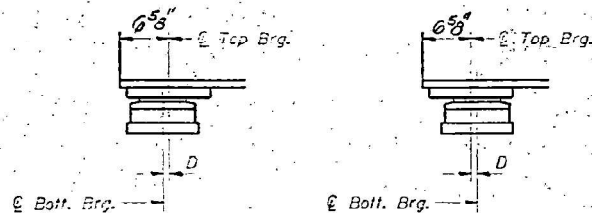
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

* Note: The 1/8" 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 MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	8

BEARING DETAILS

F.A.U. RTE. 6757 SEC. (104 VB) BR

TAZEWELL COUNTY

STA. 21+88.23

DESIGNED	<i>Lance K... 12/28</i>	12/28
CHECKED	<i>Mary Blodorf</i>	
DRAWN	<i>F.M.</i>	
CHECKED	<i>MHB</i>	
I-2-E2	12-1-83	



USER NAME	= bstaumbaugh
DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025

REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

SCALE: N/A SHEET 15 OF 25 SHEETS STA. TO STA.

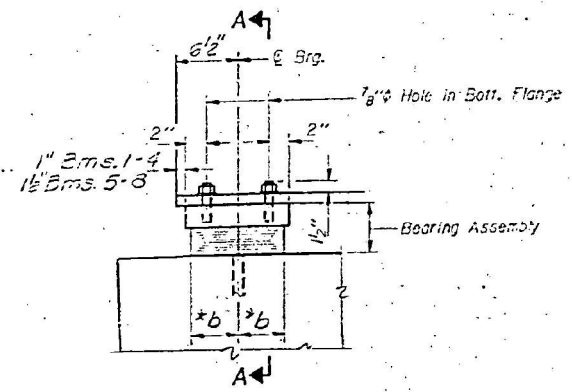
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	106
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY
 LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)

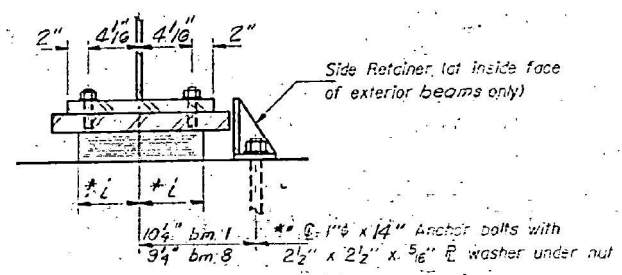
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

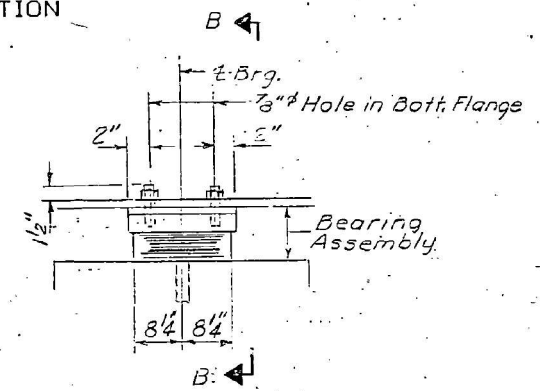
ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 38 64 SHEETS
6757	104VB	TAZEWELL	89	63	
FILE NO.	PROJECT	DATE			
20230904227	D4 BRIDGE PAINTING	9/8/2025			



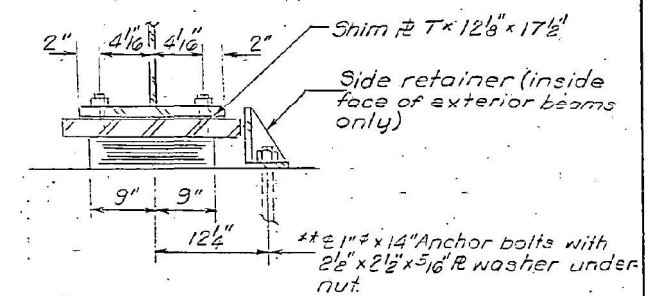
ELEVATION AT PIER 3
 UNIT 1



SECTION A-A



ELEVATION AT PIER 1



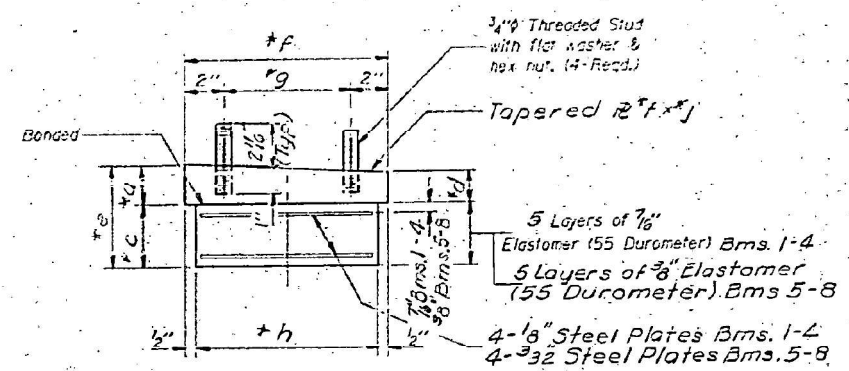
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

TYPE I ELASTOMERIC EXPANSION BRG.

** Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet #43 for Anchor Bolt installation.

Bms.	T
4	5/8"
5	5/8"
6	3/8"

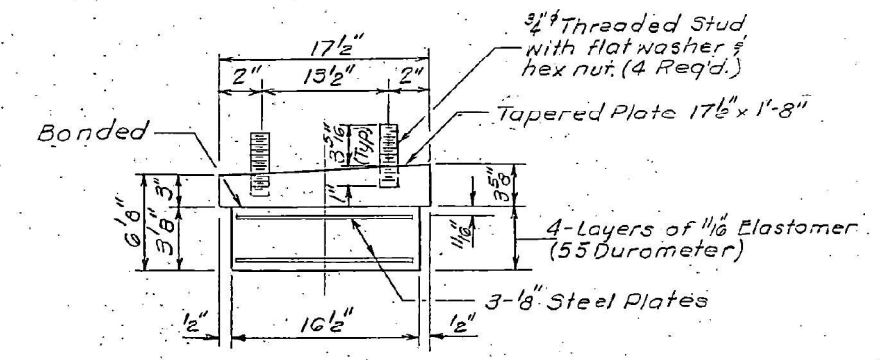


BEARING ASSEMBLY
 (Looking South)

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

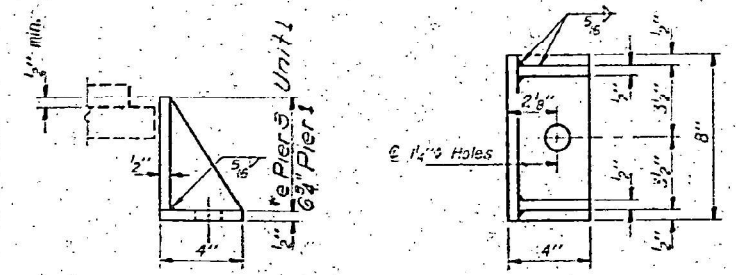
* TABLE OF DIMENSIONS

Dimension	a	b	c	d	e	f	g	h	i	j
Bms. 1-4	26"	5"	2 1/8"	2 1/4"	5 3/8"	11"	7"	10"	7"	16"
Bms. 5-8	24"	4 1/2"	2 1/4"	2"	4 1/2"	10"	6"	9"	6"	14"



BEARING ASSEMBLY
 (Looking North)

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



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	James Kidd	DEC 28 1981
CHECKED	Mary Elsdorf	
DRAWN	F.M.	
CHECKED	MHB	

I-2-EI 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	16

BEARING DETAILS
 F.A.U. RTE. 6757 SEC. (104 VB) BR
 TAZEWELL COUNTY
 STA. 2+88.83

MODEL: D:\6111... FILE NAME: P:\20230904227... BRIDGE PAINTING (FY 2023) CAD - DWG\4.7... SHEET: D4 BRIDGE PAINTING (FY 2023) SHEET: 63 OF 64



USER NAME	= bstambaugh
DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025

REVISD	-
REVISD	-
REVISD	-
REVISD	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
 SN 090-0037

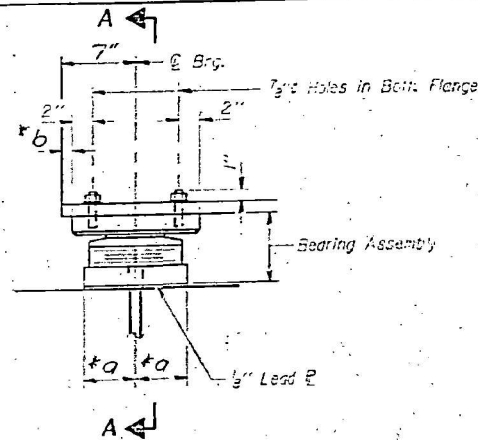
SCALE: N/A	SHEET 16	OF 25 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	107
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

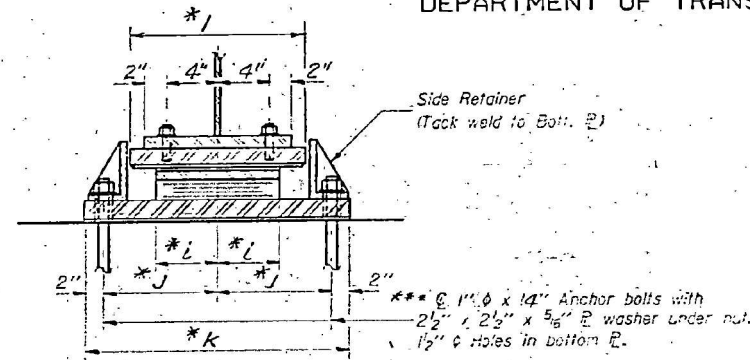
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

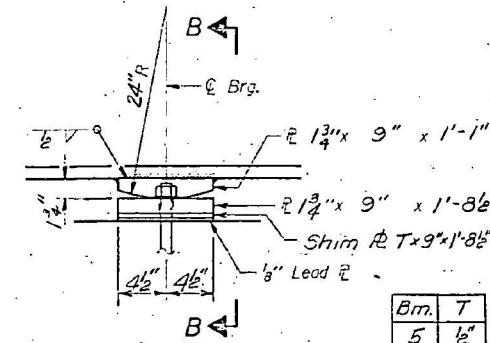
ROUTE NO.	SECTION	COUNTY	SPAN	POST	SHEET NO. 39
6757	104VB	TAZEWELL	89	64	
TOTAL SHEETS					64 SHEETS



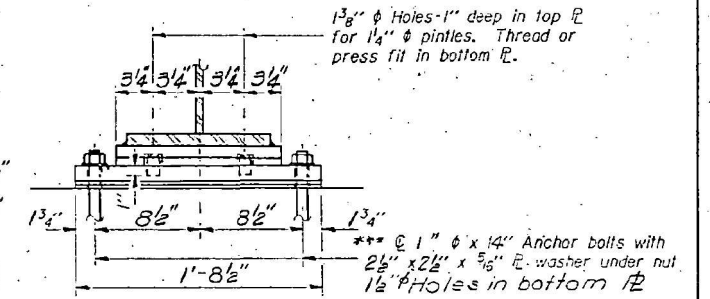
ELEVATION AT PIER 3-UNIT 2



SECTION A-A



ELEVATION AT PIER 6



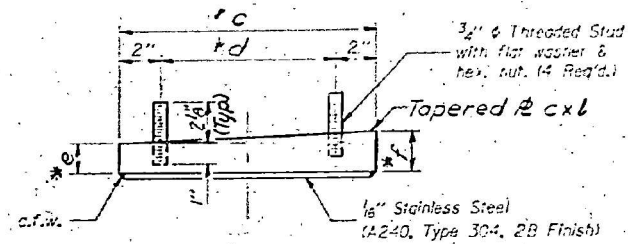
SECTION B-B

Bm.	7
5	1/2
6	1/2
7	1/2

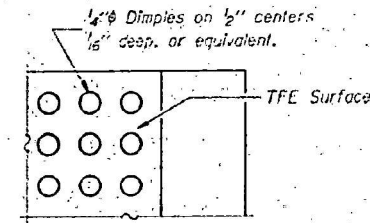
FIXED BEARING

TYPE II TFE ELASTOMERIC EXP. BRG.

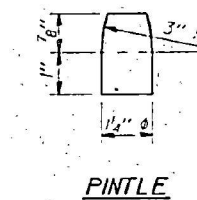
*** Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet #43 for Anchor Bolt Installation.



TOP BEARING ASSEMBLY - Looking North



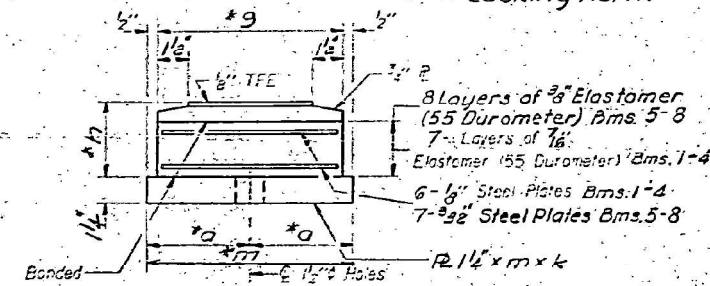
PLAN-TFE SURFACE



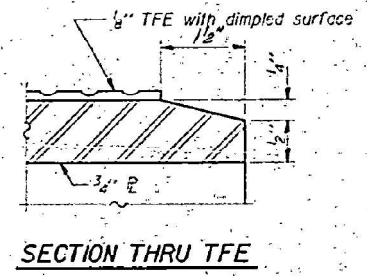
PINTLE

*** TABLE OF DIMENSIONS ***

Dimension	a	b	c	d	e	f	g	h	i	j	k	l	m	n
Bms. 1-4	5 1/2"	1"	12"	8"	2 1/4"	2 3/8"	10"	4 1/8"	7"	10 1/2"	2'-0 1/2"	16"	11"	7 1/8"
Bms. 5-8	5"	1 1/8"	10 3/4"	6 3/4"	2"	2 1/8"	9"	4 1/8"	6"	9 1/4"	1'-10 1/2"	14"	10"	6 1/16"



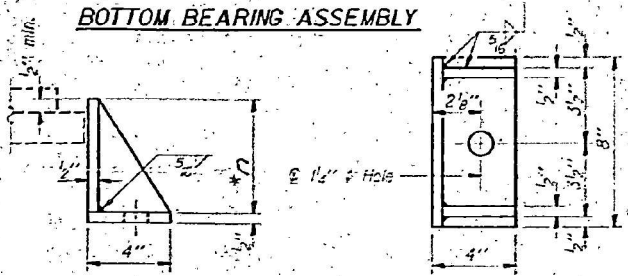
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

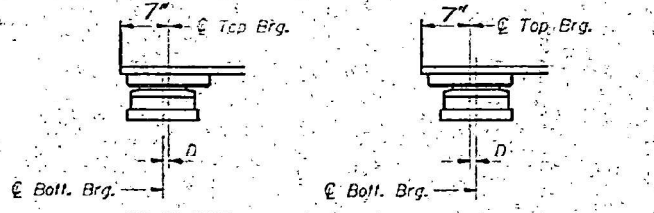
Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MWW-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	8

BEARING DETAILS

F.A.U.R.T.E. 6757 SEC. (104VB) B.R.

TAZEWELL COUNTY

STA. 21+88.83

DESIGNED: *Zone Hill*
 CHECKED: *Mary Blexdorf*
 DRAWN: *F.M.*
 CHECKED: *MHB*

Dec 28 1994
 EXAMINED: *James J. ...*
 PASSED: *James J. ...*
 APPROVED: *James J. ...*

I-2-E2 12-1-83

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 ILL. DESIGN FIRM
 LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000 1/1	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

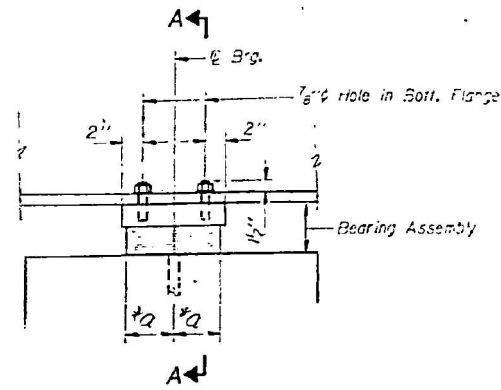
LOCATION 8 - STRUCTURE INFORMATION			
SN 090-0037			
SCALE: N/A	SHEET 17	OF 25 SHEETS	STA. TO STA.

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	108
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

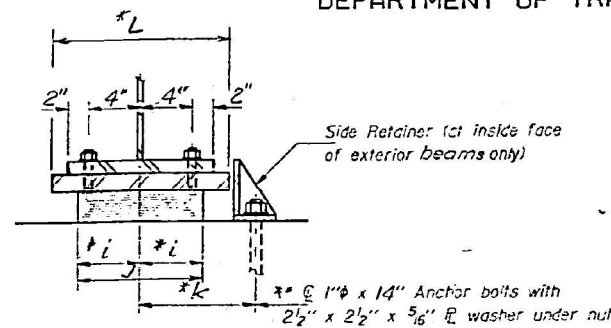
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

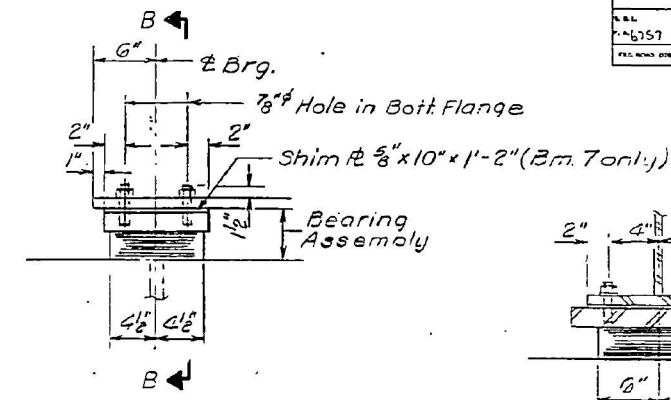
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	BR	TAZEWELL	29	65
SHEET NO. 40 64 SHEETS				



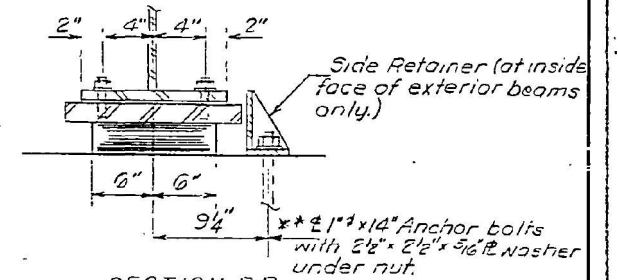
ELEVATION AT PIERS 4-5



SECTION A-A



ELEVATION AT PIER 7-UNIT 2

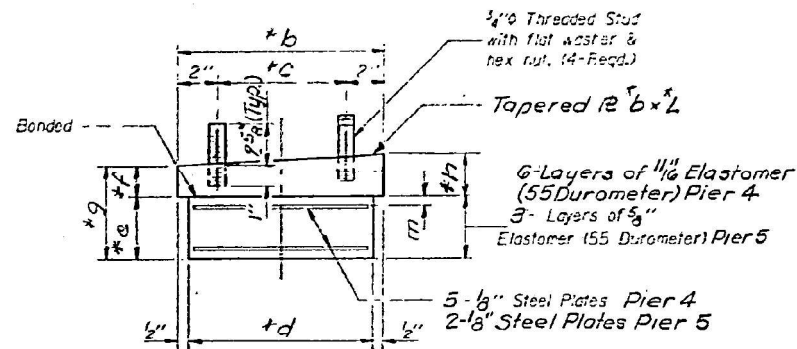


SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

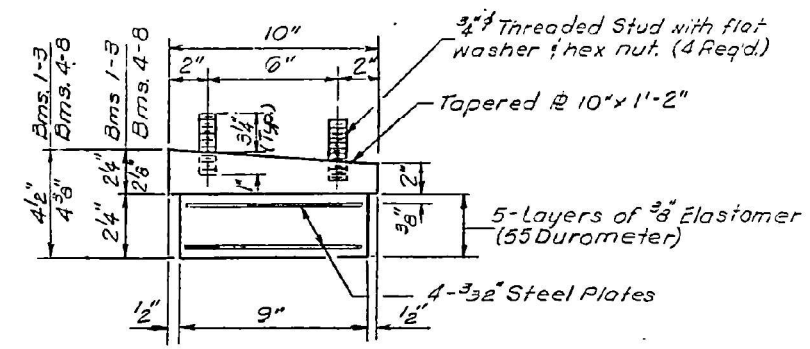
* Notes: Anchor bolts at fixed bearings may be built into the masonry.
 See sheet #43 for Anchor Bolt installation.

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

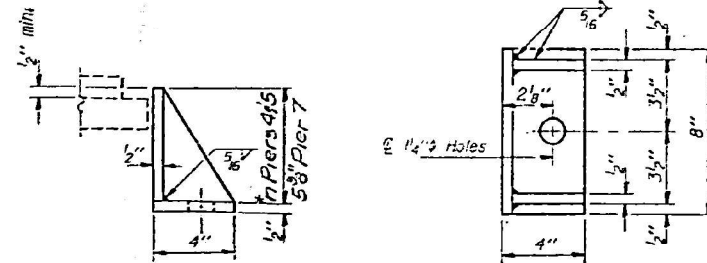
Pier 4 Looking North
 Pier 5 Looking South
 Note: Shim plates shall not be placed under Bearing Assembly.



BEARING ASSEMBLY (Looking North)

*** TABLE OF DIMENSIONS**

Dimension	a	b	c	d	e	f	g	h	i	J	k	L	m	n
Pier 4	8"	17"	13"	16"	4 1/2"	3"	7 3/4"	3 1/2"	9"	13"	12 1/4"	1'-8"	11/2"	7 1/2"
Pier 5	6 1/2"	14 1/2"	10 1/2"	13 1/2"	2 1/2"	2 1/2"	5"	3"	8 1/2"	17"	11 1/2"	1'-7"	5"	5 1/2"



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	<i>James J. Bostrom</i>	DATE	DEC 28 1984
CHECKED	Mary Bloxdorf	APPROVED	<i>James J. Bostrom</i>
DRAWN	F.M.	APPROVED	<i>James J. Bostrom</i>
CHECKED	MHB	APPROVED	<i>James J. Bostrom</i>

I-2-EI 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24

BEARING DETAILS

F.A.U.R.T.E. 6757 . SEC. (104VB) BR

TAZEWELL COUNTY

STA. 21+88.83

MODEL Dwgfile: P:\2023\230904227 - Bridge Painting (FY 2023) IA CO.D - DWG\4.7 TrainCADD_Sheet\0468K62-Str.Structural.dwg
 FILE NAME: P:\2023\230904227 - Bridge Painting (FY 2023) IA CO.D - DWG\4.7 TrainCADD_Sheet\0468K62-Str.Structural.dwg



TWM, INC.
 www.twm-inc.com
 ILLINOIS DESIGN FIRM LICENSE NO. 184-001220

USER NAME	= bstambaugh
DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025

REVISD	-
REVISD	-
REVISD	-
REVISD	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

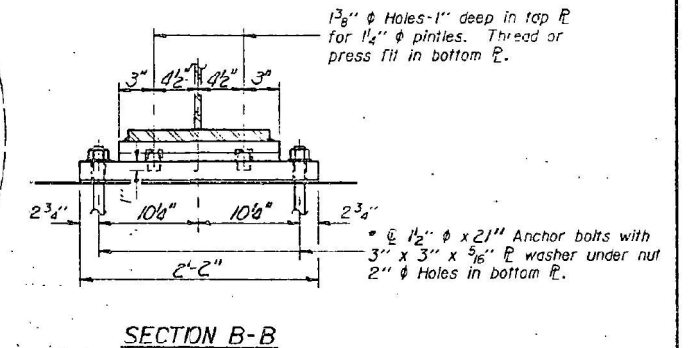
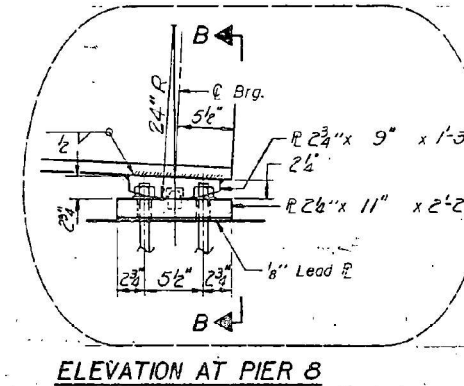
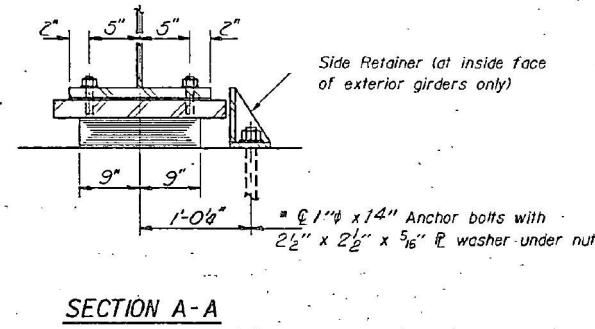
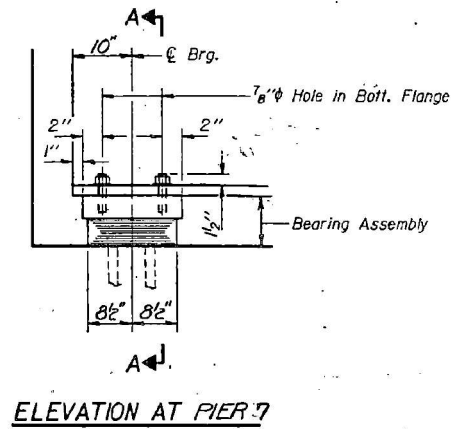
SCALE: N/A SHEET 18 OF 25 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	109
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

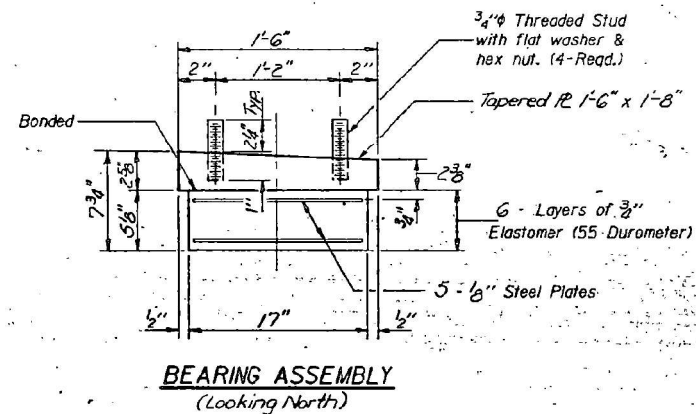
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DATE NO.	SECTION	COUNT	DATE	BY	SHEET NO. 410
6757	BR	TAEWELL	89	bb	64 SHEETS
FED. AID DIST. CL. 1	ILLINOIS	FED. AID PROJECT			



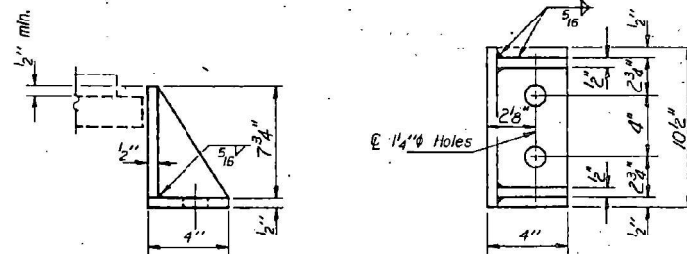
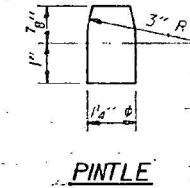
TYPE I ELASTOMERIC EXP. BRG.
 (For Unit #3 only)



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

Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet #43 for Anchor Bolt Installation.

FIXED BEARING
 (For Unit #3 only)



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	Mary Bloxdorf
CHECKED	R. F. Redkey
DRAWN	Joe Sutherland
CHECKED	R. F. h.

EXAMINED	Dec 28, 1984
APPROVED	<i>[Signature]</i>
APPROVED	<i>[Signature]</i>
APPROVED	DIRECTOR OF HIGHWAYS

I-2-EI 12-1-83

BILL OF MATERIAL

item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	8

AS REVISED 9-30-85 T.E.A.
 BEARING DETAILS
 FAU. RT. 6757 SEC. (104VB) BR
 TAEWELL COUNTY
 STATION 21+88.83

MODEL: D:\4101... FILE NAME: P:\2025\1320904227 - Bridge Painting (FY 2025)\13 CAD - DWG\4.7 Trac\CADD_Sheet\1346862-2tr-structural.ctb 06/16/25



USER NAME	= bstambaugh
DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025

REVISD	-
REVISD	-
REVISD	-
REVISD	-

DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
 SN 090-0037

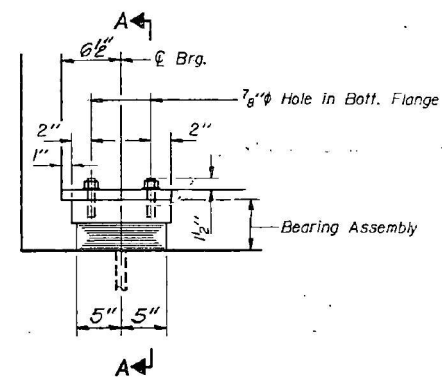
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	110
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

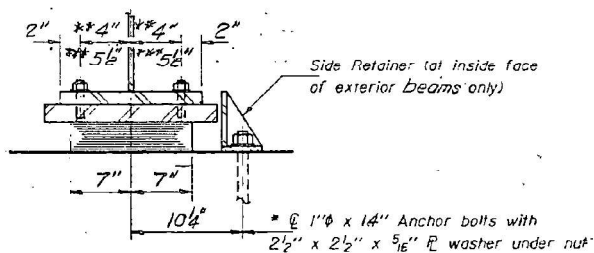
FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

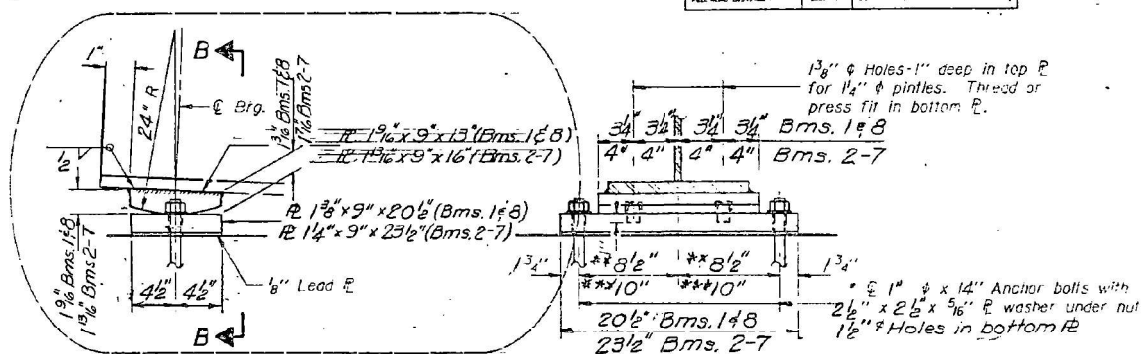
PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
6757	104VB	TAZEWELL	89	67
SHEET NO. 420				64 SHEETS



ELEVATION AT E. ABUT.



SECTION A-A

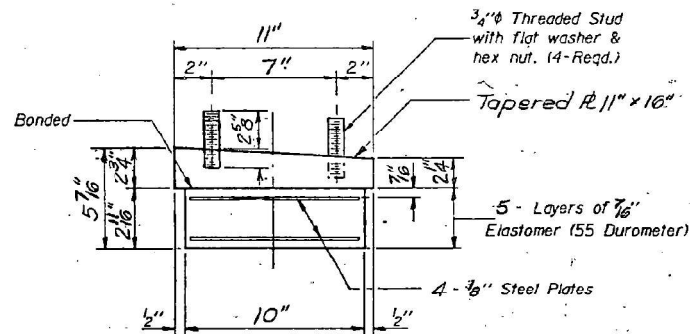


ELEVATION AT PIER 8-UNIT #4

SECTION B-B

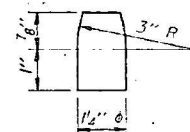
TYPE I ELASTOMERIC EXP. BRG.

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
 See sheet #43 for Anchor Bolt installation.
 ** Beams 1#8
 *** Beams 2#7

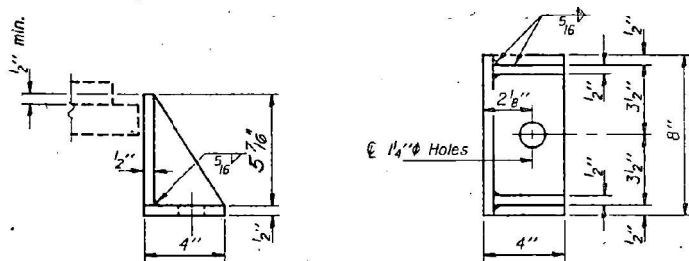


BEARING ASSEMBLY
 (Looking North)

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



PINTLE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED *Romeo J. Blaxdorf*
 CHECKED *Mary Blaxdorf*
 DRAWN *F.M.*
 CHECKED *MHB*

EXAMINED *Romeo J. Blaxdorf*
 PASSED *Romeo J. Blaxdorf*
 APPROVED *Romeo J. Blaxdorf*
 DIRECTOR OF HIGHWAYS

I-2-EI 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	8

AS REVISED 9-30-85 T.E.A.
BEARING DETAILS

FA.U.R.E. 6757 SEC.104VB) B.R.

TAZEWELL COUNTY

STA. 21+88.83

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
 SN 090-0037

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	111
CONTRACT NO. 68K62			ILLINOIS FED. AID PROJECT	

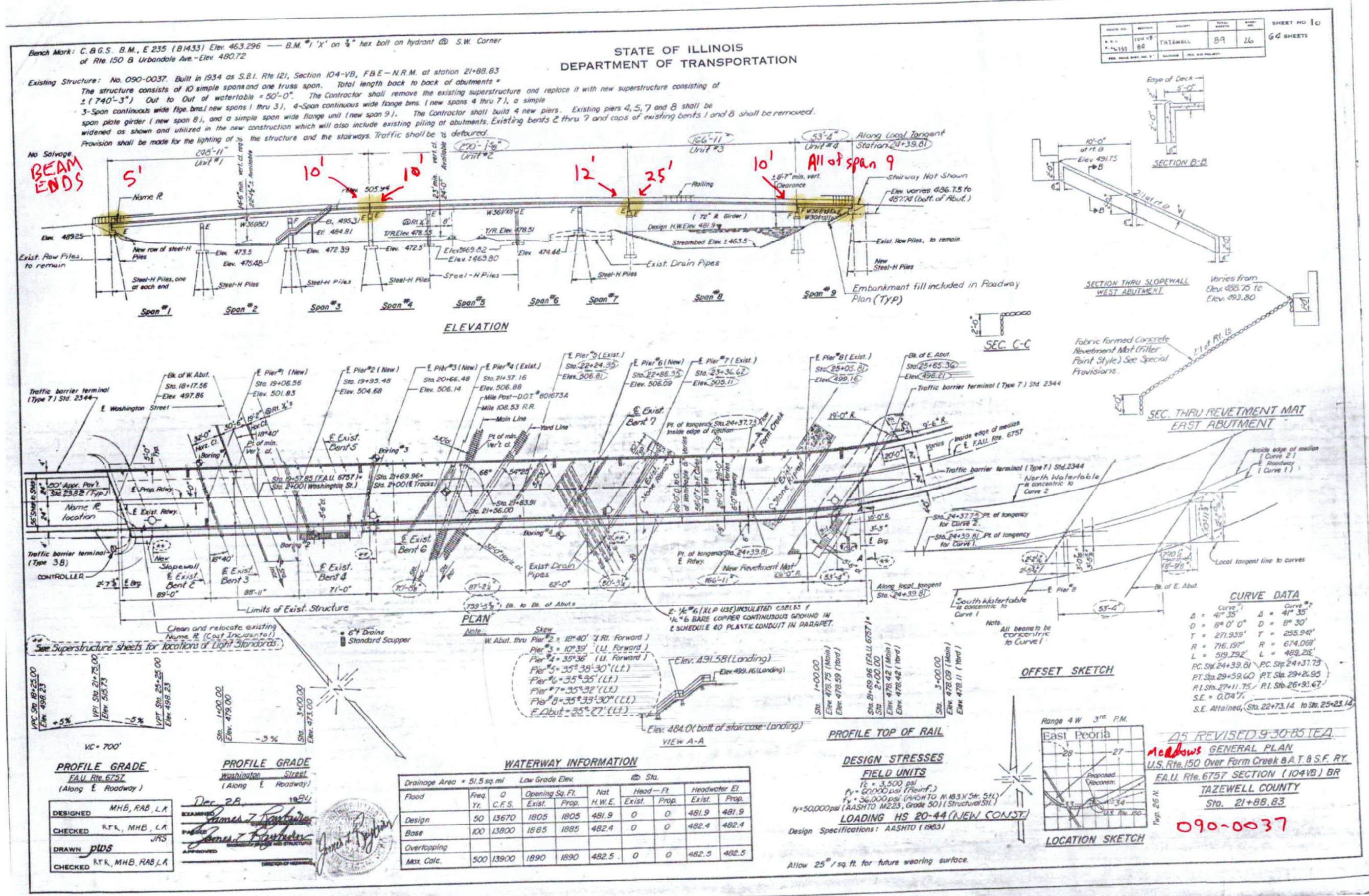
SCALE: N/A SHEET 20 OF 25 SHEETS STA. TO STA.

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 PLOT DATE = 9/8/2025

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037



MODEL Dwg File: TWM, INC. 202509040227 - Bridge Painting (FY 2025) IL CO.D - DWG 4.7 - TracCAD - Sheet 0468K62 - STRUCTURAL - 06.06.25
 FILE NAME: P:\2025\202509040227 - Bridge Painting (FY 2025) IL CO.D - DWG 4.7 - TracCAD - Sheet 0468K62 - STRUCTURAL - 06.06.25



USER NAME	= bstambaugh
DESIGNED	- BCS
DRAWN	- BCS
CHECKED	- TBP
DATE	- SEPT 2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

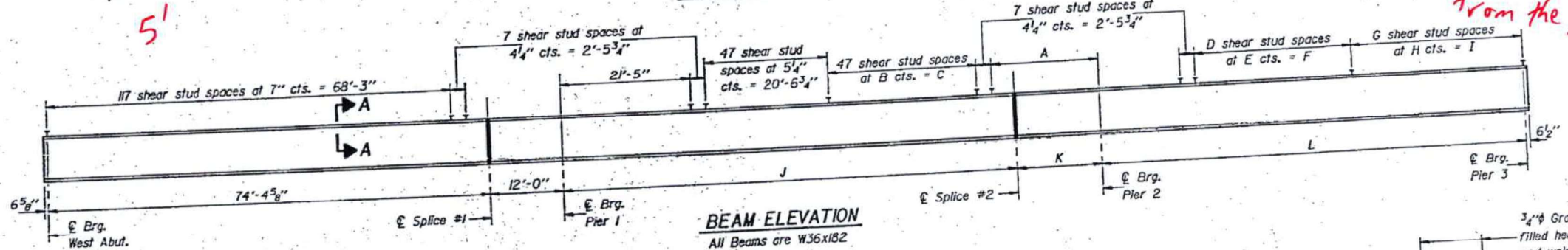
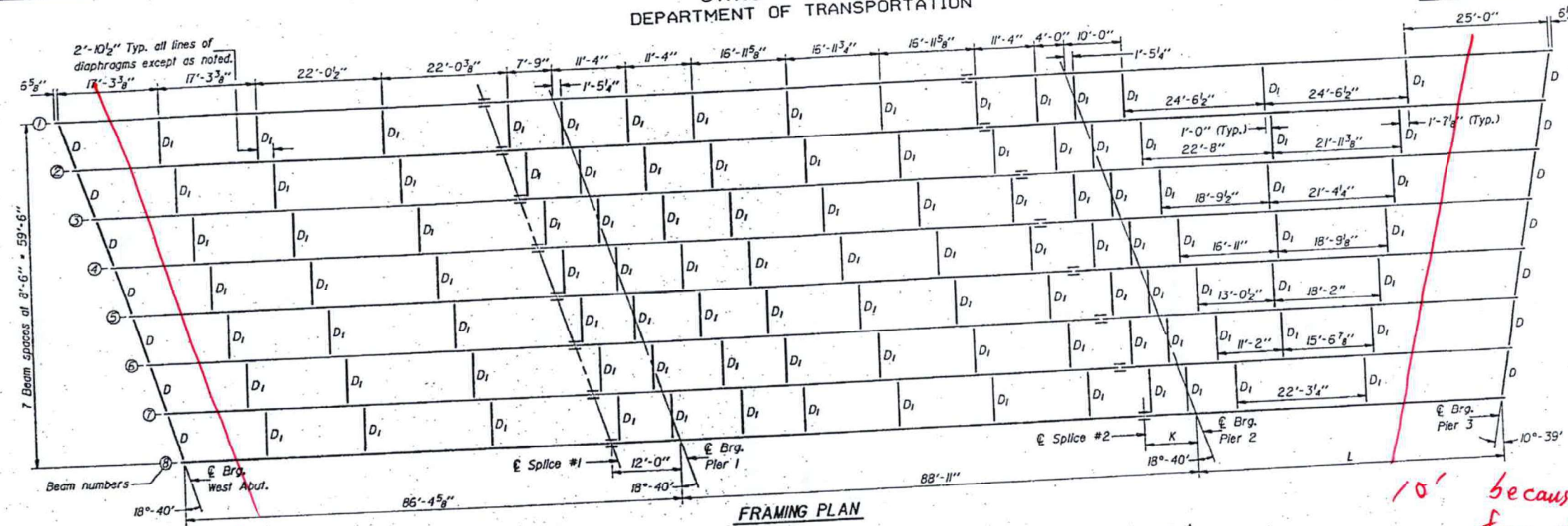
LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	112
CONTRACT NO. 68K62			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY
 LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
 SN 090-0037

DATE	10/15	DESIGNER	TALENELL	39	55	SHEET NO. 30
PROJECT NO.	657	REV.				64 SHEETS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



BEAM ELEVATION
 All Beams are W36x182

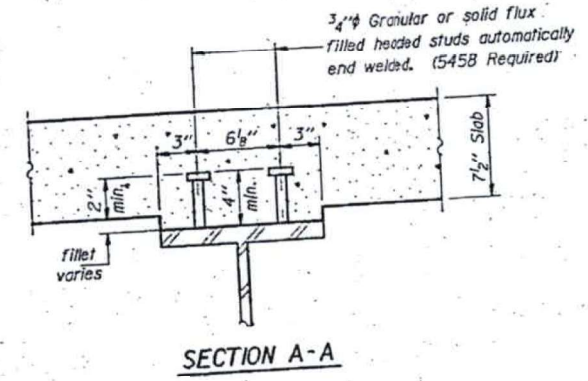
TOP OF FLANGE ELEVATIONS

Beam	W. Abut.	Splice #1	€ Pier 1	Splice #2	€ Pier 2	€ Brg. Pier 3
1	496.42	499.81	500.21	502.77	503.17	505.10
2	495.71	500.07	500.47	503.00	503.40	505.22
3	496.99	500.32	500.71	503.31	503.63	505.33
4	497.27	500.57	500.96	503.52	503.84	505.44
5	497.31	500.59	500.96	503.56	503.83	505.31
6	497.32	500.57	500.94	503.55	503.77	505.16
7	497.33	500.54	500.91	503.49	503.71	504.99
8	497.29	500.48	500.84	503.41	503.61	504.79

* For fabrication only.

TABLE OF DIMENSIONS

Beam	A	B	C	D	E	F	G	H	I	J	K	L
1	20'-5 1/4"	5 1/2"	21'-6 1/2"	56	7"	32'-8"	58	7"	33'-10"	71'-9"	17'-2"	84'-1"
2	20'-5 1/4"	5 1/2"	21'-6 1/2"	53	7"	30'-11"	55	7"	32'-1"	71'-9"	17'-2"	79'-7 1/2"
3	17'-6"	6 1/2"	24'-5 3/4"	47	7"	27'-5"	52	7"	30'-4"	75'-0 1/2"	13'-10 1/2"	75'-1 1/2"
4	17'-6"	6 1/2"	24'-5 3/4"	47	6 3/8"	25'-11 3/8"	49	7"	28'-7"	75'-0 1/2"	13'-10 1/2"	70'-8 1/2"
5	14'-6 3/4"	7"	27'-5"	47	5 3/8"	22'-0 3/8"	47	6 3/8"	26'-5 1/4"	77'-4 1/4"	11'-6 3/4"	66'-2 1/2"
6	14'-0 1/4"	7 1/2"	27'-10 1/4"	47	5"	19'-7"	47	6 1/2"	24'-5 3/4"	78'-10 3/8"	10'-0 3/8"	61'-8 1/4"
7	14'-0 1/4"	7 1/2"	27'-10 1/4"	47	4 5/8"	18'-1 3/8"	47	5 3/8"	22'-6 1/4"	78'-10 3/8"	10'-0 3/8"	57'-3 1/4"
8	12'-7 1/4"	7 1/2"	29'-4 1/2"	47	3 1/2"	12'-8 3/4"	47	5 3/8"	21'-0 3/8"	79'-10 3/8"	9'-0 3/8"	52'-9 3/4"



SECTION A-A

DESIGNED *James Hild*
 CHECKED *Mary Blaser*
 DRAWN *Joe Sutherland*
 CHECKED *MHB*

EXAMINED *James J. Robinson*
 PASSED *James J. Robinson*
 APPROVED *James J. Robinson*

Dec 28 1984

Note: Work this sheet with sheet #31.
 All beams and splice plate material shall be AASHTO W223, Grade 50. The diaphragms and connecting angles shall be AASHTO M183.

090-0037
 STRUCTURAL STEEL - UNIT #1
 F.A.U. RT. 6757 SEC. (104VB)BR
 TAZEWELL COUNTY
 STATION 21+88.83

MODEL Dwg File: P:\2023\230904\227 - Bridge Painting (FY 2026)\04 CAD - DWG\4.7 TracCAD Sheets\046R62-Str-Structural.dwg 06/06/2023



TWM, INC.
 www.twm-inc.com
 ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000 1/1	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
 SN 090-0037

SCALE: N/A SHEET 22 OF 25 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	113
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68K62	

FOR INFORMATION ONLY
 LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
 SN 090-0037

ROUTE NO.	ADDITION	DATE	BY	SHEET NO.
RT. 6757	BR	7/27/05	89	57
DESIGNED	DRAWN	CHECKED	IN CHARGE	

SHEET NO. 32a
64 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

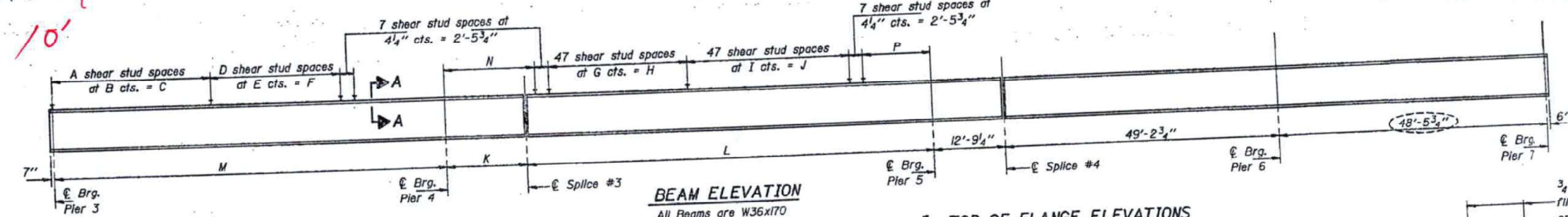
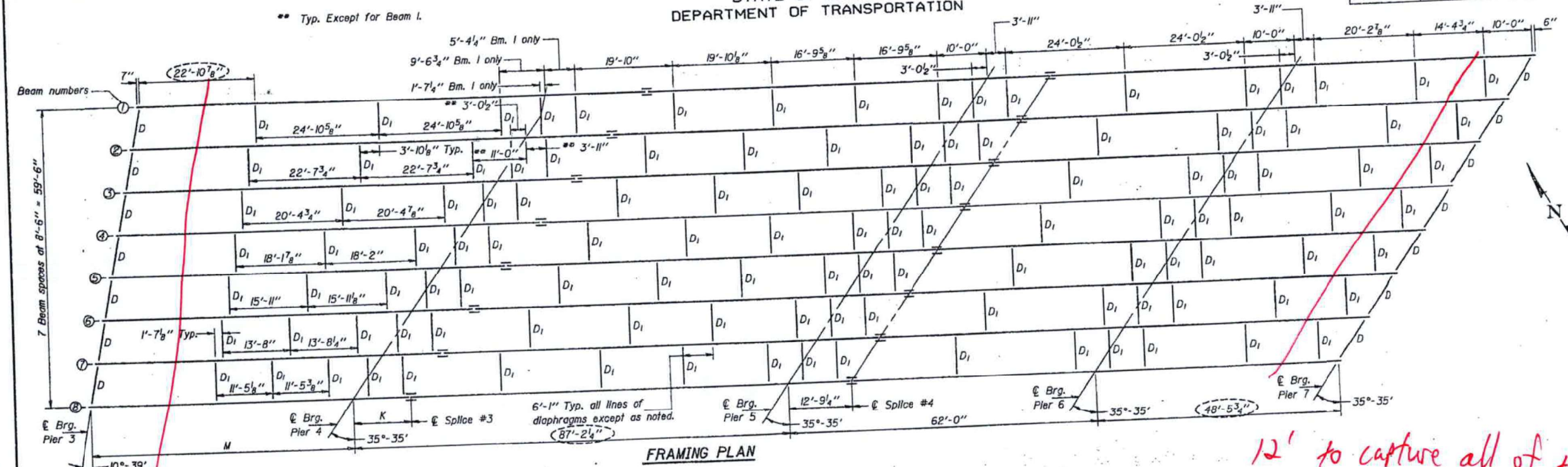


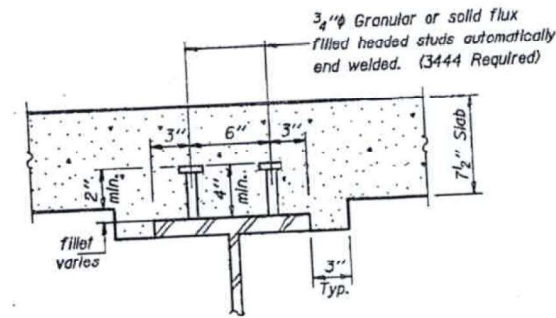
TABLE OF DIMENSIONS

Beam	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	
1	58	7"	33'-10"	53	7"	30'-11"	53	7"	21'-0 5/8"	7 3/8"	28'-10 5/8"	19'-9"	68'-10 5/8"	82'-2 7/8"	21'-6 1/2"	12'-2 1/4"
2	54	7"	31'-6"	50	7"	29'-2"	53	7"	22'-6 1/8"	7 3/8"	28'-10 5/8"	17'-0"	70'-2 1/8"	74'-8 1/2"	18'-6 1/4"	12'-3 3/4"
3	52	7"	30'-4"	47	6 3/4"	26'-5 1/8"	6"	23'-6"	7 3/8"	28'-10 5/8"	15'-8 3/4"	71'-5 3/8"	75'-0 1/2"	17'-5 1/8"	12'-4 1/4"	12'-4 1/4"
4	49	7"	28'-7"	47	6"	23'-6"	6 3/4"	24'-11 3/8"	7 3/8"	28'-10 5/8"	14'-5 3/4"	72'-8 1/8"	70'-2 3/4"	15'-3 1/4"	12'-1 1/4"	12'-9"
5	47	6 3/4"	26'-5 1/8"	47	5 1/2"	21'-6 1/2"	6 3/4"	25'-11 3/8"	7 1/8"	28'-4 3/8"	13'-4 1/8"	73'-10 1/8"	65'-9"	15'-1 5/8"	12'-9"	12'-9"
6	47	4 3/4"	18'-7 1/4"	47	6 1/2"	24'-5 3/8"	6 3/4"	26'-11 3/8"	7 1/8"	28'-4 3/8"	12'-6 3/4"	74'-7 1/2"	61'-3 3/8"	14'-4 1/4"	12'-6 5/8"	12'-8 1/2"
7	47	4 1/2"	17'-7 1/2"	47	5 1/2"	20'-6 3/4"	7"	27'-5"	7 1/8"	28'-4 3/8"	11'-11 3/8"	75'-2 1/8"	56'-9 3/8"	13'-8 1/4"	12'-8 1/2"	12'-8 1/2"
8	47	4"	15'-8"	47	4 1/2"	16'-7 3/4"	7 1/8"	27'-10 1/8"	7 1/8"	28'-4 3/8"	11'-5 1/8"	75'-9 1/8"	52'-3 1/2"	13'-2 5/8"	12'-8 1/2"	12'-8 1/2"

*** TOP OF FLANGE ELEVATIONS**

Beam	€ Brg. Pier 3	€ Pier 4	Splice #4	€ Pier 5	Splice #5	€ Pier 6	€ Brg. Pier 7
1	505.13	505.67	505.79	505.39	505.32	504.34	503.37
2	505.25	505.81	505.94	505.59	505.53	504.64	503.74
3	505.36	505.93	506.06	505.78	505.73	504.91	504.09
4	505.47	506.05	506.17	505.95	505.92	505.17	504.42
5	505.34	505.91	506.05	505.89	505.87	505.21	504.56
6	505.18	505.75	505.88	505.80	505.78	505.21	504.65
7	505.02	505.58	505.70	505.69	505.69	505.19	504.70
8	504.82	505.36	505.48	505.54	505.55	505.10	504.65

* For fabrication only.



DESIGNED L.W.K.
 CHECKED M.H.B.
 DRAWN Joe Sutherland
 CHECKED M.H.B.

Dec. 28, 1994
 EXAMINED James J. Robinson
 PASSED James J. Robinson
 APPROVED James J. Robinson

Note: Work this sheet with sheet #33.
 All beams and splice plate material shall be AASHTO M223, Grade 50. The diaphragms and connecting angles shall be AASHTO M83.

090-0037
 AS REVISED 9-30-85 T.E.A.
 STRUCTURAL STEEL - UNIT #2
 F.A.U. RT. 6757 SEC. (I04VB)BR
 TAZEWELL COUNTY
 STATION 21+88.83

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

NO. 6757	104 VB	TAZEWELL	89	89	SHEET NO. 34 a
					64 SHEETS

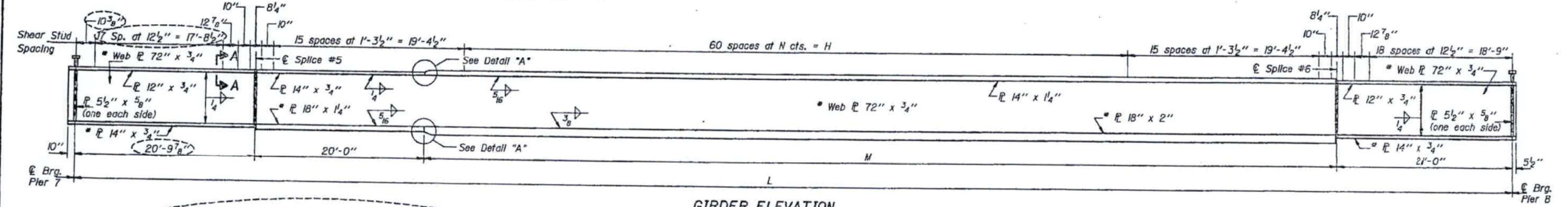
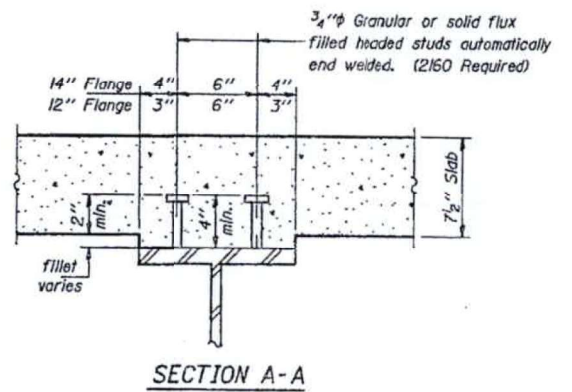
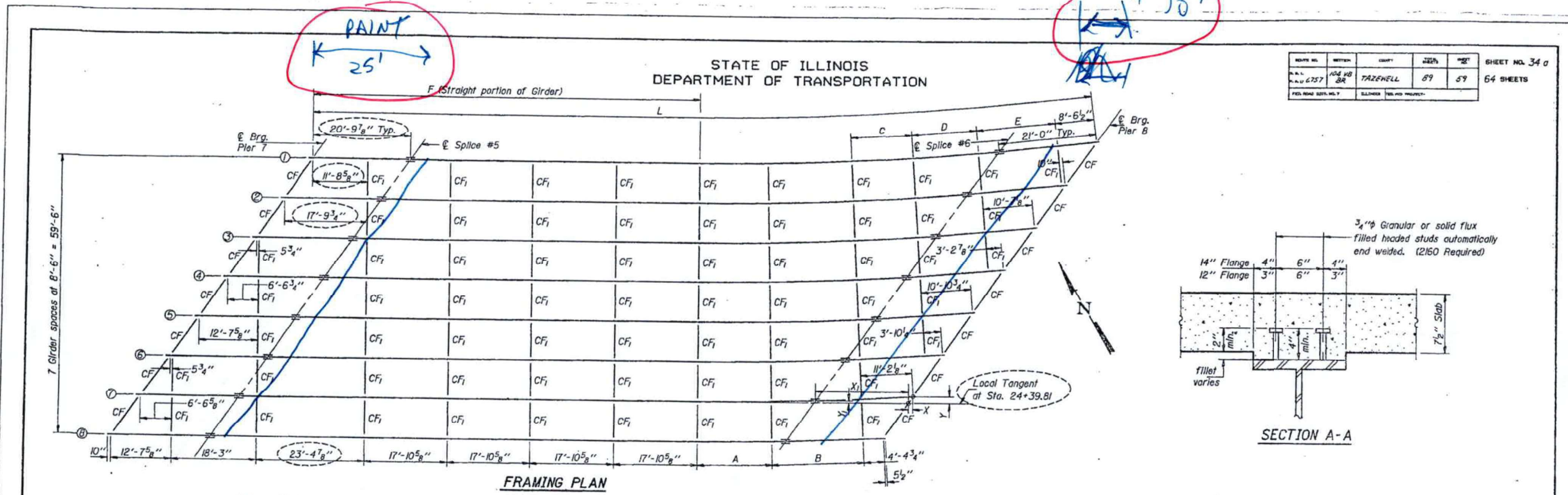


TABLE OF GIRDER DIMENSIONS

Girder	Radius	A	B	C	D	E	F	H	L	M	N
1	689.697	14'-7 1/8"	18'-0 1/2"	13'-3 1/8"	14'-2 3/8"	16'-11 1/2"	83'-3 1/8"	86'-0 1/8"	169'-0"	107'-2 1/8"	1'-5 3/16"
2	698.197	14'-10"	18'-3 1/4"	13'-5 3/8"	14'-4 1/8"	17'-2"	89'-4 1/8"	85'-4 1/8"	168'-4"	106'-6 1/8"	1'-5 1/16"
3	706.697	15'-0 1/2"	18'-5 1/2"	13'-7 3/8"	14'-7"	---	95'-5 1/8"	84'-10"	167'-9 1/8"	105'-11 1/8"	1'-4 5/16"
4	715.197	15'-2 1/2"	18'-8 1/2"	13'-9 3/8"	14'-9 1/8"	---	101'-6"	84'-3 3/8"	167'-2 1/8"	105'-5 1/8"	1'-4 1/16"
5	723.697	15'-4 1/2"	18'-11 1/2"	13'-11 3/8"	---	---	107'-7"	83'-10 1/8"	166'-9 1/8"	104'-11 3/8"	1'-4 1/8"
6	732.197	15'-6 1/2"	19'-1 1/2"	14'-1 3/8"	---	---	113'-8"	83'-5 1/8"	166'-4 1/8"	104'-6 3/8"	1'-4 1/16"
7	740.697	15'-8 1/2"	19'-4 1/2"	---	---	---	119'-9"	83'-1 1/8"	166'-0 1/8"	104'-2 1/8"	1'-4 1/8"
8	749.197	15'-11"	19'-7 1/4"	---	---	---	125'-10"	82'-10"	165'-9 1/8"	103'-11 1/4"	1'-4 3/16"

GIRDER ELEVATION
 * Notch Toughness requirements are required for these plates.

*** TOP OF WEB ELEVATIONS**

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8
Br. Pier 7 (Span 8)	503.24	503.61	503.97	504.30	504.45	504.54	504.60	504.55
Splice #5	502.79	503.21	503.59	503.97	504.16	504.32	504.44	504.43
Splice #6	497.45	498.15	498.83	499.47	500.04	500.56	501.05	501.27
Br. Pier 8 (Span 8)	496.23	496.97	497.69	498.38	499.02	499.61	500.15	500.40

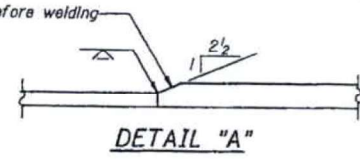
* For fabrication only. Elevations at splices have been adjusted for camber.

LAYOUT DIMENSIONS

Girder	Splice #6		Pier 8	
	X ₁	Y ₁	X	Y
1	17'-0 1/2"	3'-0 1/2"	3'-9 3/8"	5'-3 1/8"
2	17'-8 1/2"	2'-4 1/8"	3'-2 3/8"	4'-5 1/8"
3	18'-3 1/4"	1'-10 3/8"	2'-7 3/8"	3'-8 1/8"
4	18'-9 1/2"	1'-4 3/8"	2'-1 1/8"	3'-0 1/8"
5	19'-2 1/2"	1'-0 1/8"	1'-8 3/8"	2'-5 1/8"
6	19'-7 1/2"	8 1/8"	1'-4 1/8"	1'-10 3/8"
7	19'-11 1/2"	5 1/8"	1'-0 3/8"	1'-5 1/8"
8	20'-2 1/2"	2 1/8"	9 1/8"	1'-0 1/2"

DESIGNED M.H.B.
 CHECKED R.F.R.
 DRAWN Joe Sutherland
 CHECKED R.F.R.

Dec. 28, 1984
 EXAMINED *James J. Robinson*
 PASSED *James J. Robinson*
 APPROVED *James J. Robinson*
 DIRECTOR OF HIGHWAYS



Notes: Dimensions are along girders.
 Work this sheet with sheet #35.
 All structural steel shall be AASHTO M223.-Grade 50.

090-0037
AS REVISED 9-30-85 T.E.A.
STRUCTURAL STEEL - UNIT #3
F.A.U. RT. 6757 SEC. (104VB)BR
TAZEWELL COUNTY
STATION 21+88.83



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8 - STRUCTURE INFORMATION
SN 090-0037

SCALE: N/A	SHEET 24	OF 25 SHEETS	STA.	TO STA.
------------	----------	--------------	------	---------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	115
			CONTRACT NO. 68K62	
			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY
LOCATION 8 (MEADOW AVE OVER FARM CREEK, CRRR, TPWRR, NSRR)
SN 090-0037

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
104 VB BR	TAZEWELL	87	61	64 SHEETS

TABLE OF BEAM DIMENSIONS

Beam	Radius	L	A	B	C	D	E	F	G
1	689.697'	58'-11 1/2"				12'-3 1/2"	16'-0 1/2"	17'-2 1/8"	7 1/8"
2	698.197'	55'-5 1/2"				12'-10"	16'-2 1/8"	17'-5 1/8"	10"
3	706.697'	54'-10 1/8"			14'-10"	13'-4 1/8"	16'-5 1/8"		9 5/8"
4	715.197'	54'-3"			14'-7 1/2"	13'-11 3/4"	16'-7 5/8"		9 1/8"
5	723.697'	53'-8 3/8"		15'-0 1/8"	14'-4 3/8"	14'-6 5/8"			9 3/8"
6	732.197'	53'-2 1/2"		15'-2 1/2"	14'-1 1/2"	15'-1 1/2"			9 1/2"
7	740.697'	52'-8 1/4"	14'-4 1/8"	15'-4 3/8"	13'-10 3/8"				9 1/4"
8	749.197'	52'-2 1/4"	14'-6 1/8"	15'-6 3/8"	13'-8"				9"

TOP OF FLANGE ELEVATIONS

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
Br. Pier 8 (Span 9)	496.169	496.912	497.643	498.340	498.986	499.584	500.140	500.397
Br. East Abut.	493.253	494.067	494.863	495.643	496.407	497.156	497.892	498.311

** For fabrication only.

LAYOUT DIMENSIONS

Beam	Pier 8		East Abut.	
	X	Y	X	Y
1	4'-0 1/2"	5'-8"	10'-9 3/4"	15'-1 1/4"
2	3'-5"	4'-9 1/2"	9'-7 3/4"	13'-5 1/4"
3	2'-10 1/2"	3'-11 3/4"	8'-6 1/4"	11'-10 3/4"
4	2'-4"	3'-3 1/2"	7'-6"	10'-5 1/4"
5	1'-10 5/8"	2'-7 5/8"	6'-7"	9'-2 3/4"
6	1'-5 1/8"	2'-1 1/8"	5'-8 1/4"	8'-0 1/4"
7	1'-1 1/8"	1'-7 5/8"	4'-11 1/4"	6'-11 3/4"
8	10 3/8"	1'-2 1/2"	4'-3 3/8"	5'-11 3/4"

* X dimension is parallel to tangent and Y dimension is perpendicular to tangent.

BEAM MOMENT TABLE

	Exterior .5 Span	Interior .5 Span
I _s (in ⁴)	10,500	8,200
I _c (in ⁴)	25,155	18,450
S _s (in ³)	580	539
S _c (in ³)	807	733
φ	1.017	1.021
M _E (K)	424	412
s _E (K/ft.)	357	357
M _S (K)	49	144
M _T (K)	643	639
M (Imp) (K)	69	159
S ₃ (M _T +I) (K)	1337	1330
M _a (K)	2483	2452
f _s non-comp (k.s.i.)	10.3	10.2
f _s E (comp) (k.s.i.)	2.8	2.7
f _s S ₃ (k.s.i.)	24.1	24.1
f _s (Overload) (k.s.i.)	37.2	37.0
f _s (Total) (k.s.i.)	48.4	48.1
F _{bu} (k.s.i.)	50.0	50.0
VR (K)	64.1	64.2

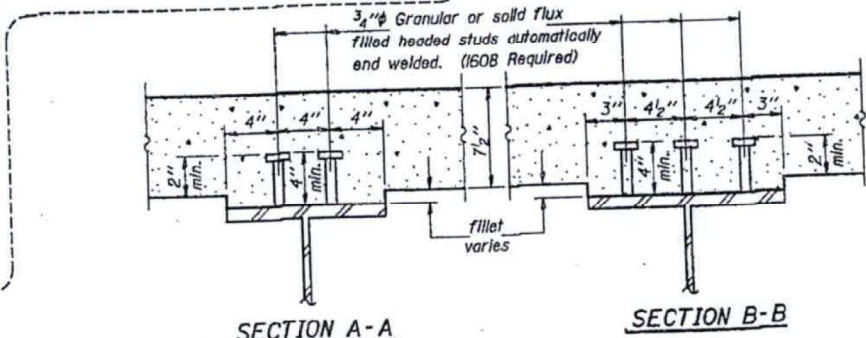
BEAM REACTION TABLE

	Ext. Bms.	Int. Bms.
R _P (K)	37.4	37.7
R _T (K)	51.3	51.4
Imp. (K)	12.8	12.8
R (Total) (K)	101.5	101.9

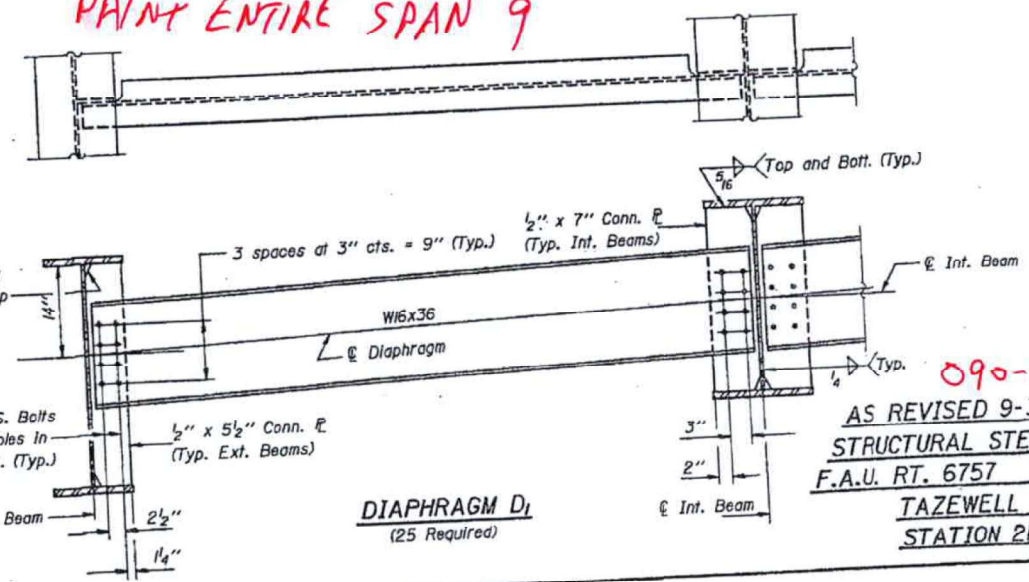
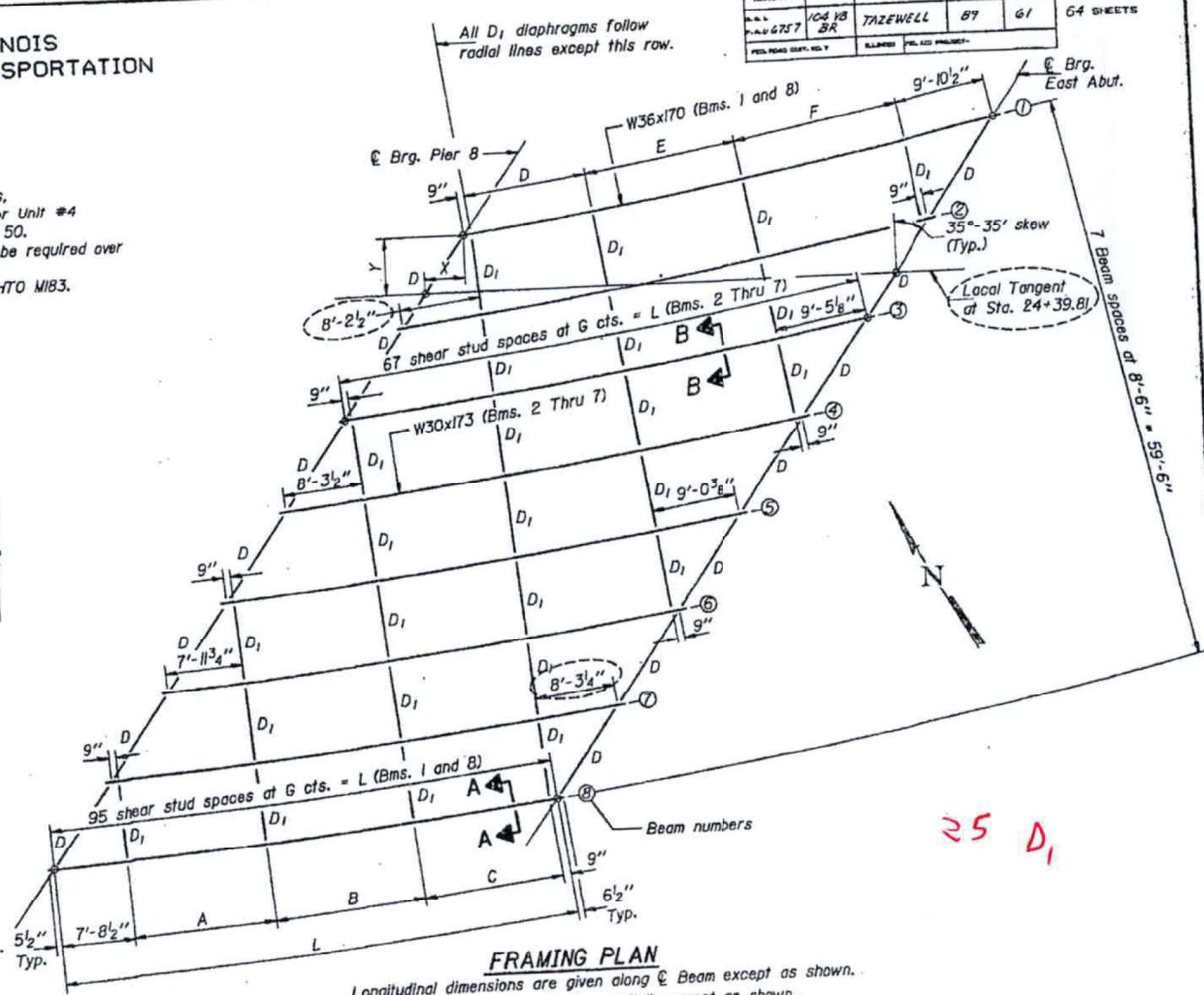
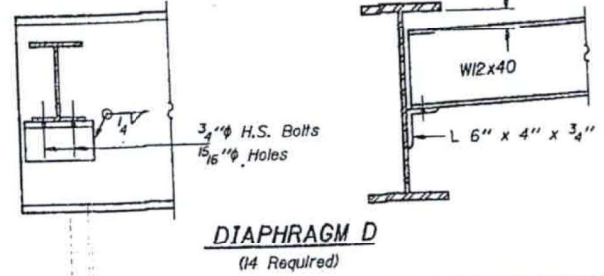
DESIGNED R.A.B.
 CHECKED R.F.R.
 DRAWN Joe Sutherland
 CHECKED R.F.R.

EXAMINED *James J. Robinson*
 PASSED *James J. Robinson*
 APPROVED

Dec. 28, 1984



*** The maximum allowable stress (F_{bu}) is computed according to AASHTO (Guide Specifications for Horizontally Curved Highway Bridges, Section 2.12(B)).
 All moments and reactions except those due to impact include secondary loads.
 All stresses include additional stresses due to torsion.
 I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 VR is the maximum Live Load + Impact shear range in span.
 f_s (Total) is the sum of the stresses due to 1.3(M_E + M_S) + S₃(M_T + I).
 f_s (Overload) is the sum of the stresses due to M_E + M_S + S₃(M_T + I).
 M_a (Applied Moment) = 1.3(M_E + M_S) + S₃(M_T + I).



PAINT ENTIRE SPAN 9

090-0037
 AS REVISED 9-30-85 T.E.A.
 STRUCTURAL STEEL - UNIT #4
 F.A.U. RT. 6757 SEC. (104VB)BR
 TAZEWELL COUNTY
 STATION 21+88.83

FOR INFORMATION ONLY
LOCATION 9 (US 150 OVER LITTLE FARM CREEK)
SN 090-0148

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.U. 6757	(105B) BR	TAZEWELL	31	16 SHEETS

Bench Mark: Chiseled "□" on North corner of N.E. wingwall of structure 090-0085 Elev. 619.09

Existing Structure: 090-0085 is a single span 22'-0" Bk. to Bk. Abutments with 42'-2" O. to O. R.C. slab bridge on closed abutments. Built as S.B.I. Rte. 121, Sec. 105B at Sta. 158+90.00 in 1927. The contractor shall remove the existing structure as required and replace it with a single span wide flange superstructure on Integral Abutments. The road shall be kept open to one lane traffic at all times by utilizing stage construction.

No Salvage.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 7/8" φ, open holes 5/8" φ, unless otherwise noted.

Calculated weight of Structural Steel, M223 (Gr. 50) = 28,820 lbs.

Calculated weight of Structural Steel, M183 = 1,630 Lbs.

The Zinc-silicate and vinyl paint system shall be used for shop and field painting of Structural Steel except where otherwise noted. The color of the vinyl finish coat shall be Munsell No. 10B 3/5 "Blue".

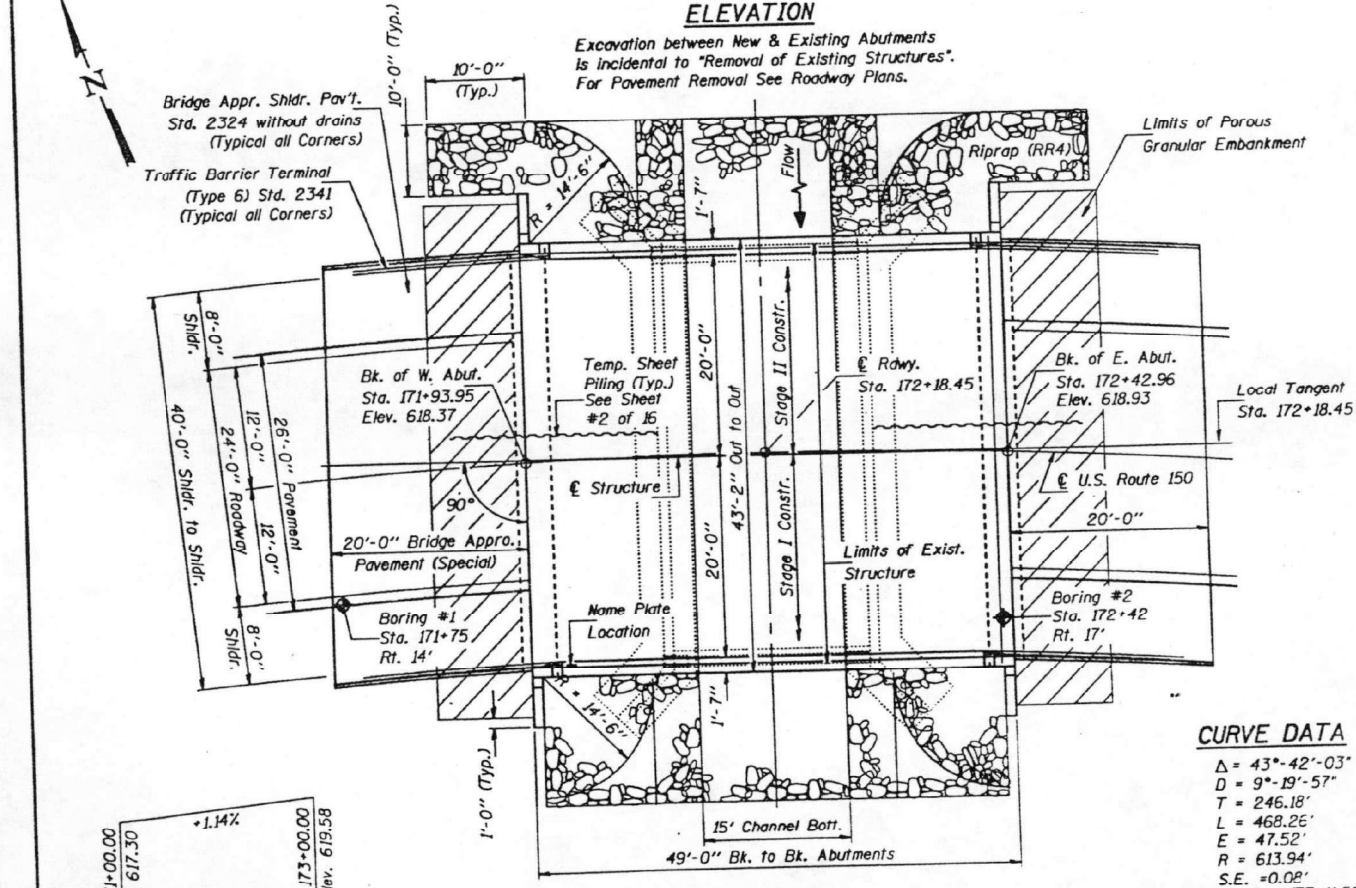
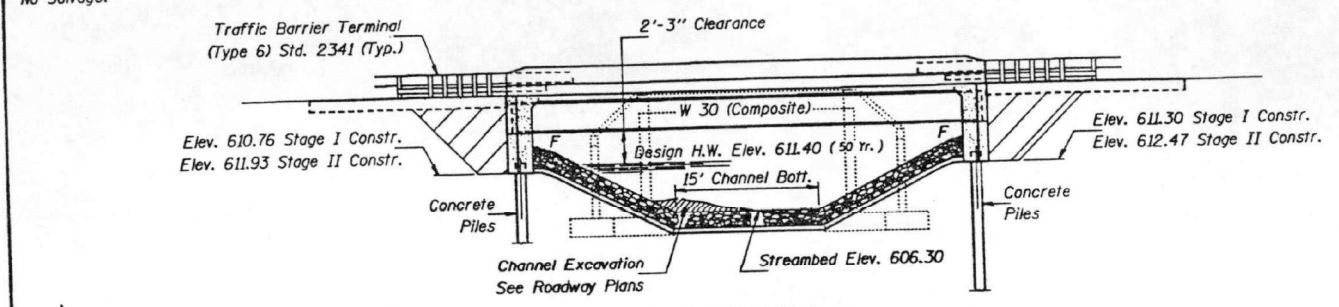
Field welding of construction accessories will not be permitted to the bottom flange of beams. Field welding in other areas will be permitted only when approved by the Engineer.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These Components are the wide flange beams.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

LAYOUT of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The contractor shall drive one (1) Concrete test pile in a permanent location at the East Abutment as directed by the Engineer before ordering the remainder of piles.



CURVE DATA

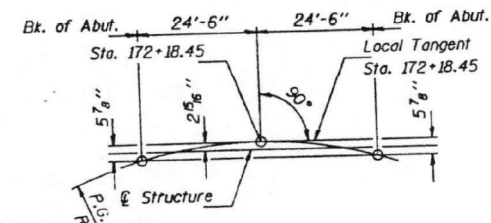
Δ = 43°-42'-03"
 D = 9°-19'-57"
 T = 246.18'
 L = 468.26'
 E = 47.52'
 R = 613.94'
 S.E. = 0.08°
 P.I. = Sta. 173+11.50

STATION 172+18.45
 BUILT 199 BY
 STATE OF ILLINOIS
 F.A.U. RT. 6757 SEC. (105B)BR

LOADING HS20
 STR. NO. 090-0148

NAME PLATE

See Std. 2113



DESIGN SPECIFICATIONS

AASHTO 1989 with 1993 & 1991 Interim.
LOADING HS 20-44
 Allow 25% / sq. ft. for future wearing surface.

DESIGN STRESSES

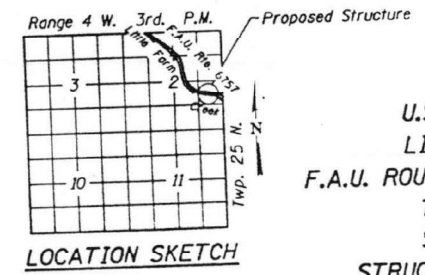
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinf.)
 fy = 50,000 psi (M223 Grade 50)
 fy = 36,000 psi (M183)

AS REVISED

TOTAL BILL OF MATERIAL

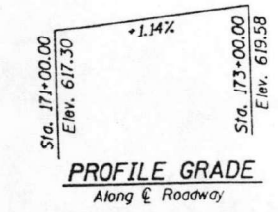
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		133	133
Removal of Existing Structures	Each		93	93
Structure Excavation	Cu. Yd.	83.5		83.5
Class X Concrete Superstructure	Sq. Yd.	40		40
Protective Coat	Cu. Yd.		33.3	33.3
Class X Concrete	L.S.		1	1
Structural Steel	Each	840		840
Stud Shear Connectors	Pound	17,970	4,140	22,110
Reinforcement Bars (Epoxy Coated)	Lin. Ft.		494	494
Concrete Piles	Each		1	1
Test Pile Concrete	Sq. Ft.		2,141	2,141
Temporary Sheet Piling	Each		1	1
Name Plates	Sq. Yd.		429	429
Stone Riprap Class A4	Sq. Yd.		429	429
Filter Fabric for use with Riprap	Sq. Yd.	206		206
Bridge Deck Grooving				

* Quantity is for Parapet only.



GENERAL PLAN
U.S. ROUTE 150 OVER
LITTLE FARM CREEK
F.A.U. ROUTE 6757 SECTION (105B)BR
TAZEWELL COUNTY
STATION 172+18.45
STRUCTURE NUMBER 090-0148

Revised 5-12-92 PDC



DESIGNED: *Pete D. Cramer*
 CHECKED: *John Ciccone*
 DRAWN: *John F. Schneller Jr.*
 EXAMINED: *Gregory J. Kaspa*
 PASSED: *Robert E. Anderson*
 APPROVED: _____

WATERWAY INFORMATION

Drainage Area = 1.52 mi. sq. Low Grade Elev. 615.01 @ Sta. 169+00.00

Flood	Freq. Yr.	0	Opening	Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
Design	50	824	97	130	611.4	2.9	614.3
Base	100	965	103	140	611.7	3.5	615.2
Overtopping							
Max. Calc.	500	1312	166	174	612.5	3.6	616.1



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLGT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLGT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 9 - STRUCTURE INFORMATION
SN 090-0148

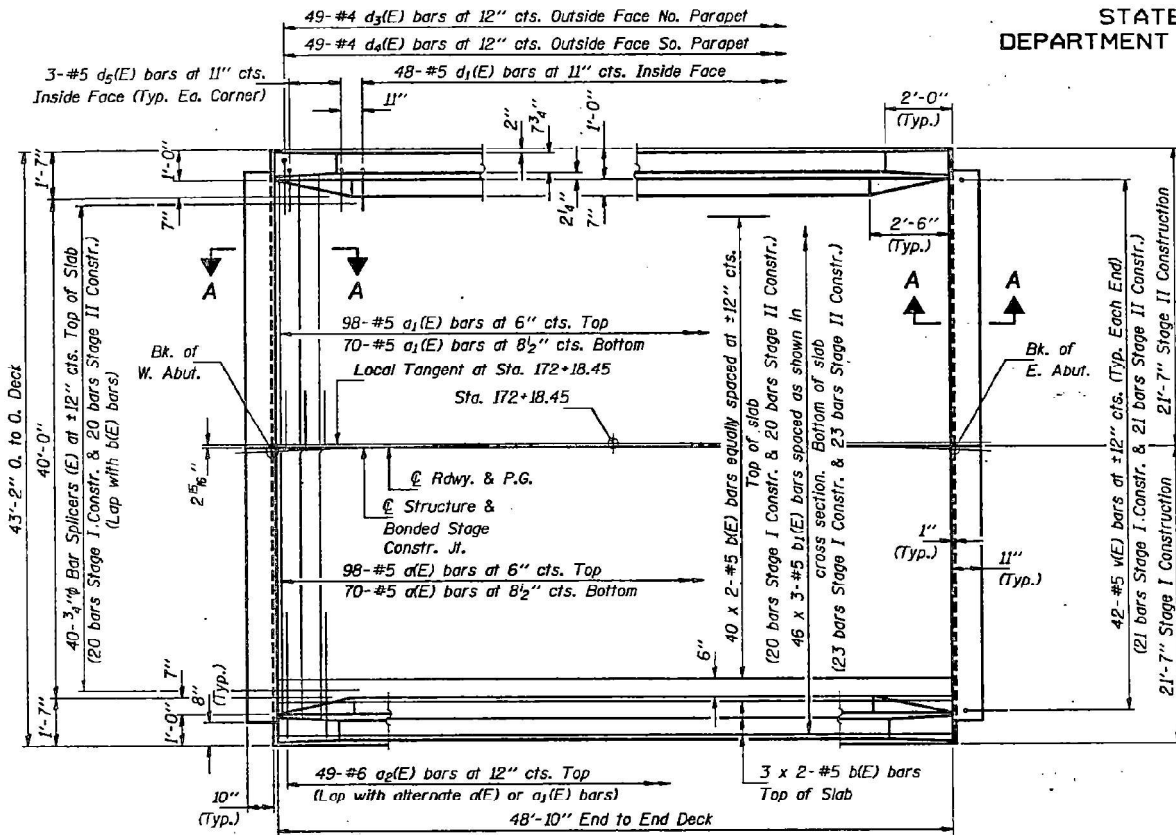
SCALE: N/A SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	117
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY
LOCATION 9 (US 150 OVER LITTLE FARM CREEK)
SN 090-0148

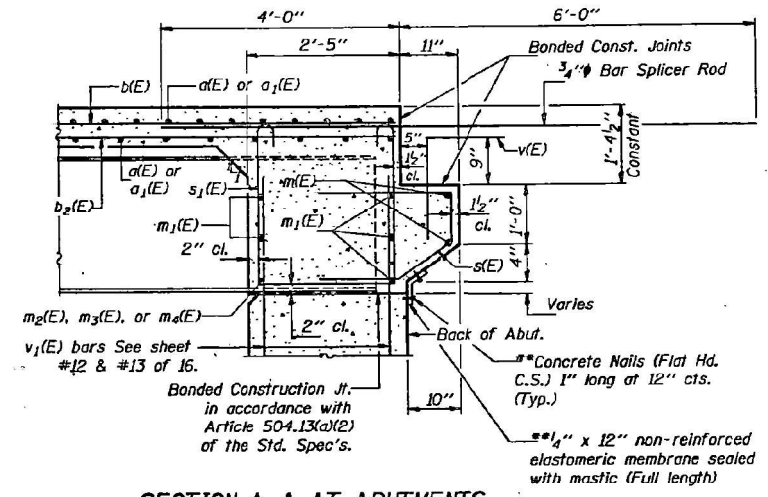
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET	NO.	SHEET NO. 7
F.A.U. 6757	(105B) BR	TAZEWELL	31	19	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

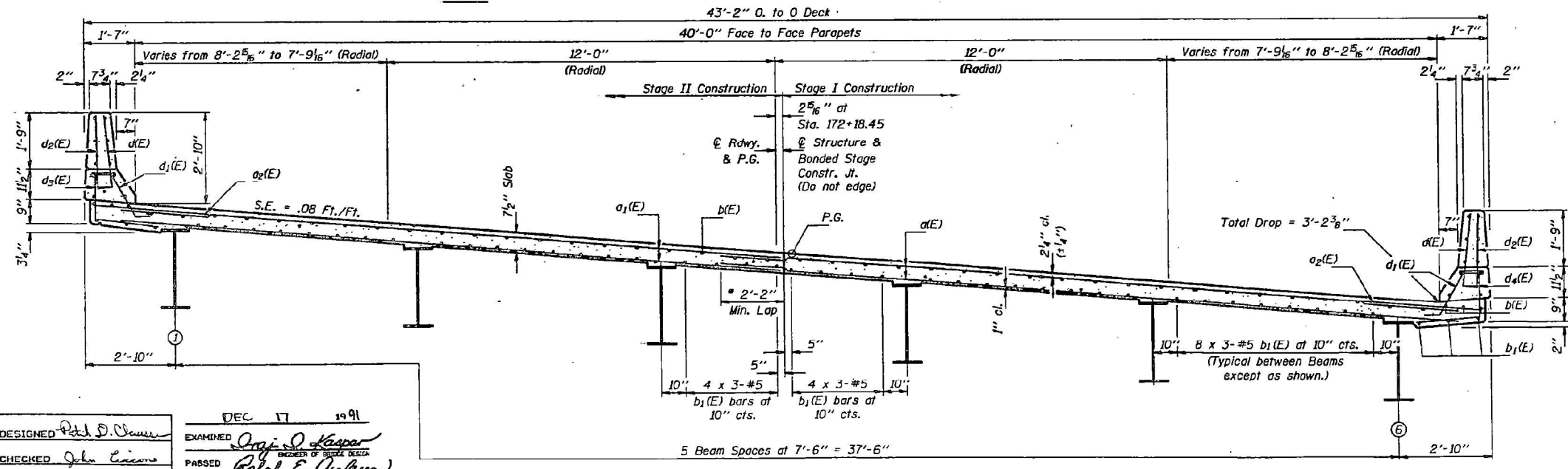


PLAN

**Cost is incidental to Class X Concrete.



SECTION A-A AT ABUTMENTS



CROSS SECTION
(Looking East)

Notes:
 See Sheet #8 of 16 for Superstructure details, Parapet Reinforcement 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.
 See Sheet #5 of 16 for Bar Splicer details.
 * Bars lapped at this location shall be tied with double the number of ties normally used.

MIN. BAR LAPS
 #5 (E) bars = 1'-8"

SUPERSTRUCTURE
F.A.U. RT. 6757 SEC. (105B)BR
TAZEWELL COUNTY
STA. 172+18.45

DESIGNED <i>Pete D. Weaver</i>	EXAMINED <i>Ralph E. Anderson</i>
CHECKED <i>John E. Lyons</i>	PASSED <i>Ralph E. Anderson</i>
DRAWN <i>John F. Schneller Jr.</i>	APPROVED <i>Ralph E. Anderson</i>
CHECKED <i>PDL JLC</i>	DESIGNER OF MEMBERS

DEC 17 1991

MODEL: D:\4111...
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 TWM, INC.

TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES
 IL DESIGN FIRM
 LICENSE NO. 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

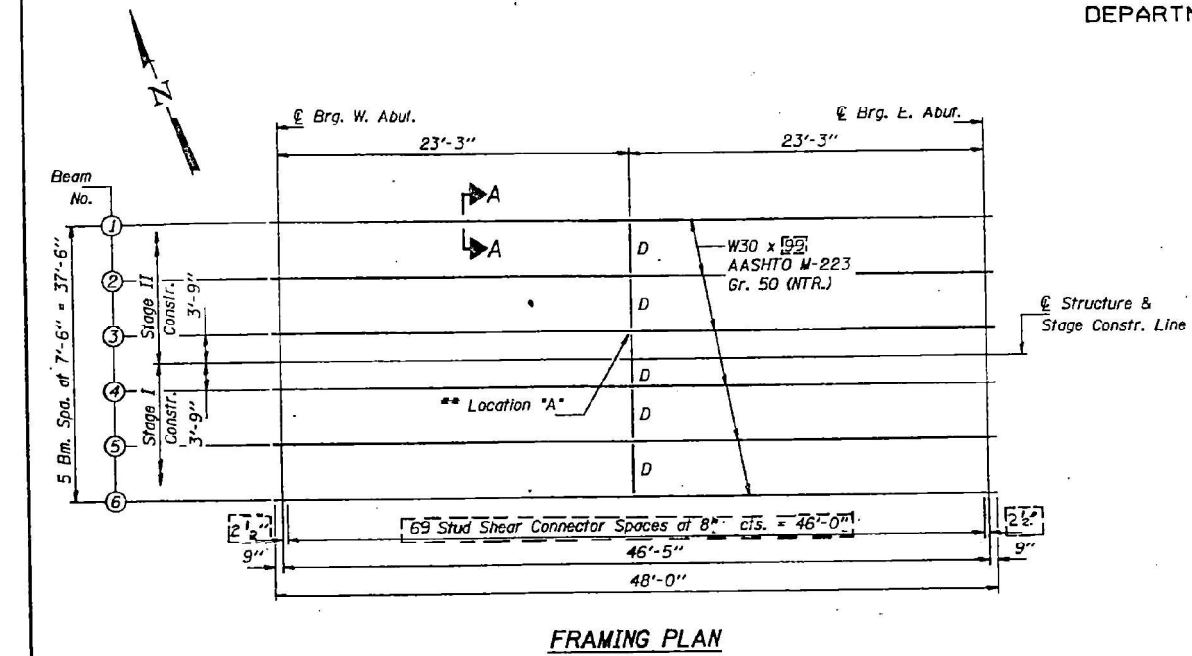
LOCATION 9 - STRUCTURE INFORMATION			
SN 090-0148			
SCALE: N/A	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D4 BRIDGE PAINTING 2026	VAR	ILLINOIS	136	118
			CONTRACT NO. 68K62	
			FED. AID PROJECT	

FOR INFORMATION ONLY
 LOCATION 9 (US 150 OVER LITTLE FARM CREEK)
 SN 090-0148

PROJECT NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.U. 6757	(005B) BR	TAZEWELL	31 22A	16 SHEETS
FED. ROAD DIST. NO. 7	BALANCE	FED. AID PROJECT		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



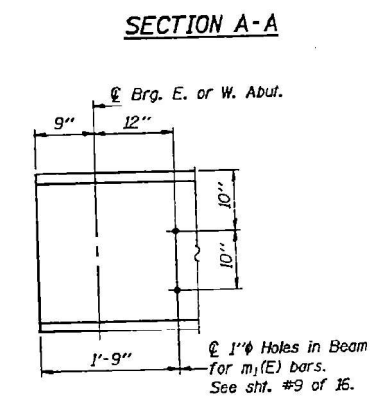
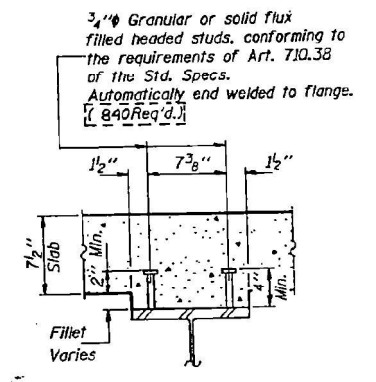
INTERIOR BEAM MOMENT TABLE

I_s	(in ⁴)	3,850
I_c (n = 9)	(in ⁴)	11,971
I_c (n = 27)	(in ⁴)	8,380
S_s	(in ³)	269
S_c (n = 9)	(in ³)	919
S_c (n = 27)	(in ³)	349
Z	(in ³)	
\bar{I}	(K/ft.)	850
M_R	(K)	225
M_D	(K/ft.)	325
M_{sE}	(K)	88
M_t	(K)	385
M (Imp)	(K)	115
$S_y(M_t + I)$	(K)	835
M_u	(K)	12,797
M_u	(K)	12,464
$f_s E$ (non-comp)	(k.s.i.)	10,041
$f_s E$ (comp, n = 27)	(k.s.i.)	3,03
$f_s S_y (k + I)$	(k.s.i.)	23,911
f_s (Overload)	(k.s.i.)	36.9B
VR	(K)	5121

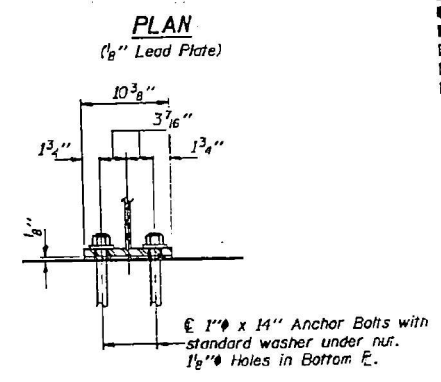
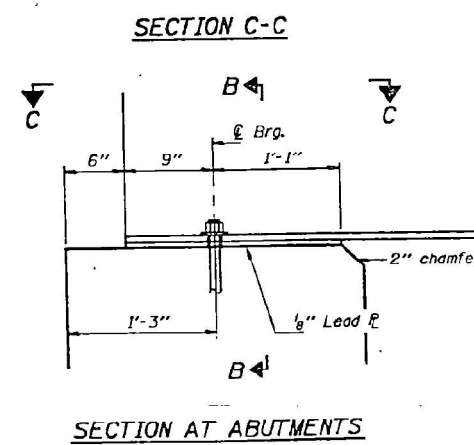
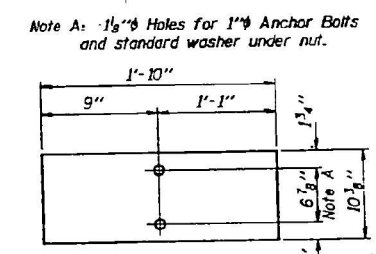
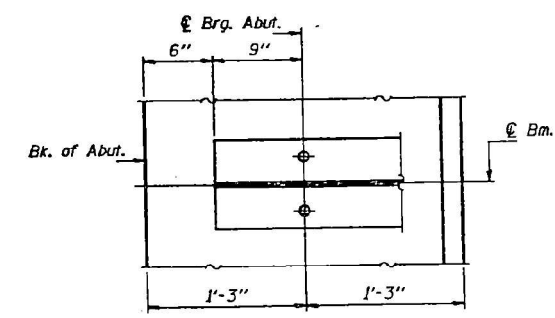
*** INTERIOR BM. REACTION TABLE**

		W. Abut.	E. Abut.
R_P	(K)	26.85	26.85
R_t	(K)	39.39	39.39
Imp.	(K)	11.82	11.82
R (Total)	(K)	78.06	78.06

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Overload).
 VR is the maximum Live Load + Impact shear range in span.
 M_u (Applied Moment) = $1.3(M_R + M_s E + 5(M_t + I))$.
 M_u is the Full Plastic Moment Capacity for Compact Braced section.
 f_s (Overload) is the sum of the stresses due to $M_R + M_s E + 5(M_t + I)$.
 M_R - Moment due to dead loads on non-composite section.
 $M_s E$ - Moment due to dead loads on composite section.
 M_t - Moment due to live loads on non-composite or composite section.
 I - Live load impact.
 Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
 The fully plastic moment capacity (M_u) is computed according to AASHTO 10.48.1 to 10.50.1.1.
 * Service Load Values.



Notes: Two hardened washers shall be required over all $\frac{5}{16}$ " holes for diaphragms.
 ** Use $\frac{1}{2}$ " Vert. x $\frac{5}{16}$ " slotted holes in Top & Bott. bent plates at Location "A" only. Provide $\frac{5}{16}$ " plate washers for slotted holes. The bolts for slotted holes in angles at location "A" shall be finger-tightened prior to the deck pour for Stage II Construction. Tighten bolts after deck is poured.

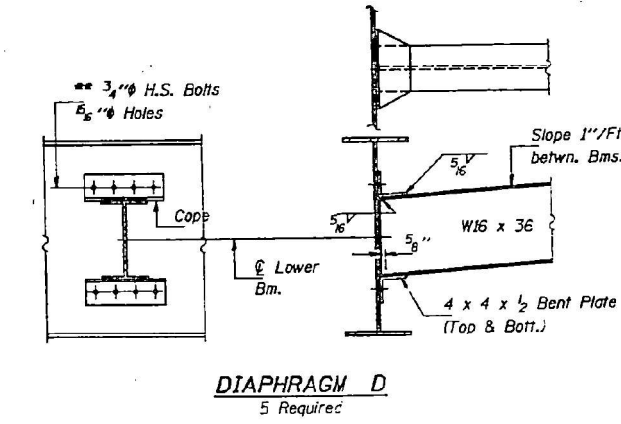


AS REVISED

***** TOP OF FLANGE ELEVATIONS**

Loc.	Bm. #1	Bm. #2	Bm. #3	Bm. #4	Bm. #5	Bm. #6
© Brg. W. Abut.	619.24	618.64	618.04	617.43	616.83	616.23
© Brg. E. Abut.	619.75	619.15	618.56	617.97	617.37	616.77

*** For Fabrication Only.



DESIGNED: *Pete S. ...*
 CHECKED: *John ...*
 DRAWN: *John F. Schaeffer Jr.*
 CHECKED: *PDC JLC*

EXAMINED: *Orji O. ...*
 PASSED: *Ralph E. ...*
 APPROVED: *...*

DEC 17 1991

STRUCTURAL STEEL
 F.A.U. RT. 6757 SEC. (105B)BR
 TAZEWELL COUNTY
 STA. 172+18.45

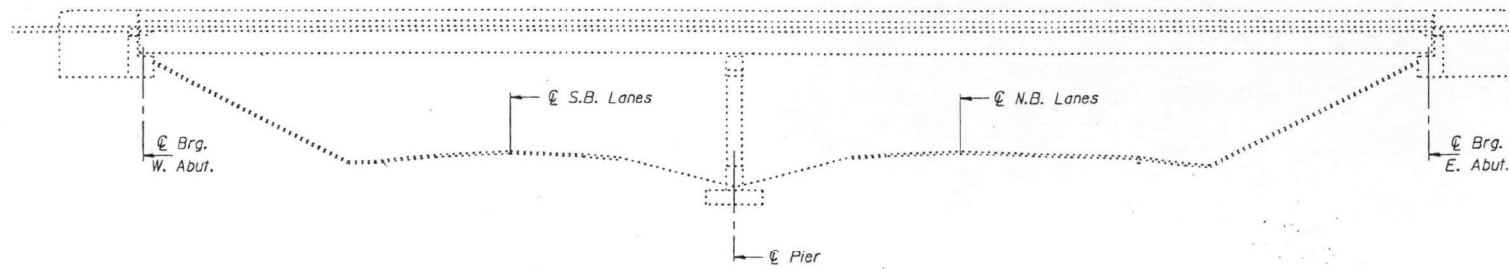
Revised 5-12-92 PDC

FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041

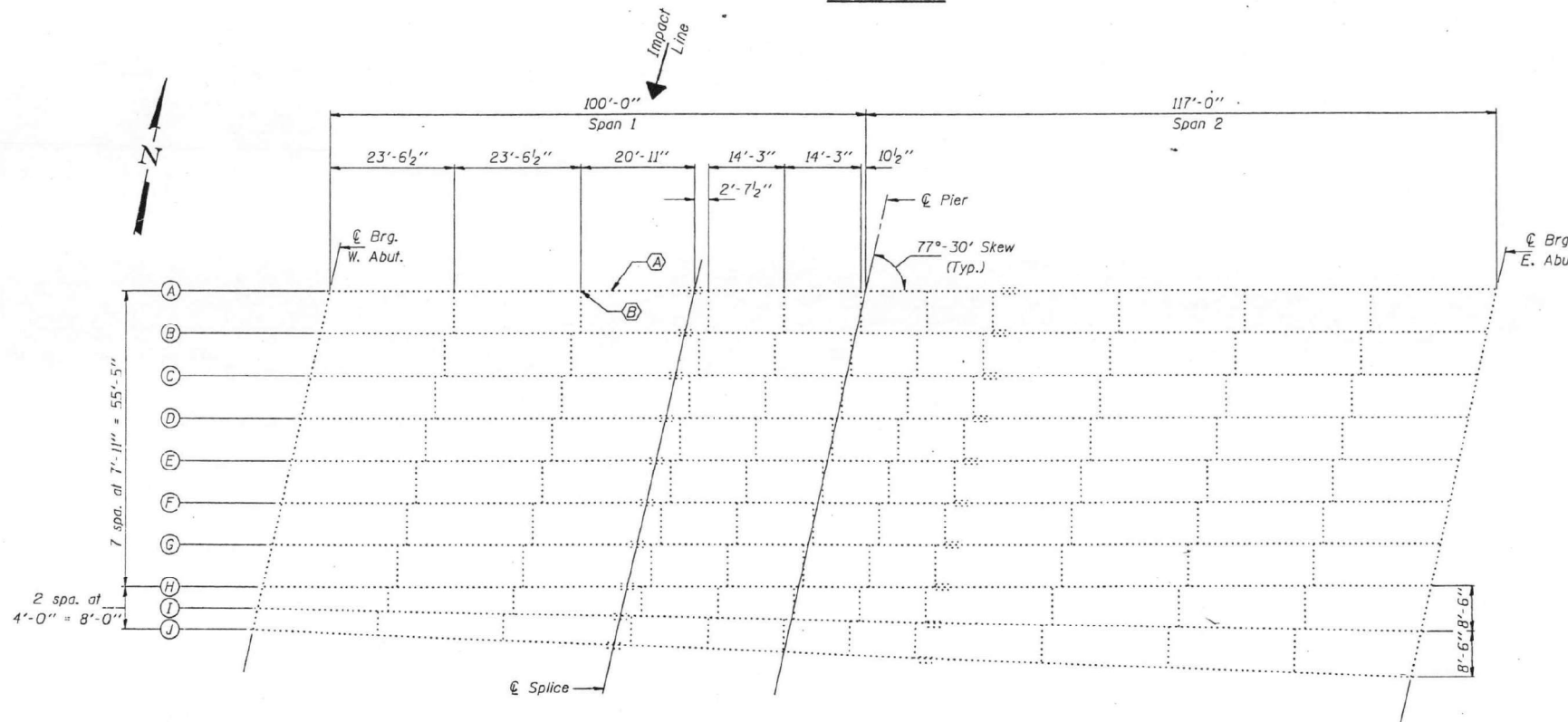
Unit Copy

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	2 SHEETS
		WARREN		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



ELEVATION



FRAMING PLAN

Notes: (A) Existing Beam to be straightened & strengthened.
(B) Existing Bottom clip angle to be straightened; cost to be included with Beam Straightening.

DESIGNED	J.F.S.	OCTOBER 23, 2001
CHECKED	A.Y.V.	EXAMINED <i>John A. Morice</i> ENGINEER OF STRUCTURAL SERVICES
DRAWN	D-herbert	PASSED
CHECKED	J.F.S. A.Y.V.	ENGINEER OF BRIDGES AND STRUCTURES

094-0041

GENERAL NOTES

All new structural steel shall conform to AASHTO Classification M-270 Gr. 50. Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{5}{16}$ " ϕ , unless otherwise noted.

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.

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the flange strengthening plates.

Existing Structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures".

The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Blue, Munsell No. 10B 3/6. See Special Provisions "Cleaning and Painting New Metal Structures".

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Grind surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Cost shall be included in the cost of "Beam Straightening". Any cracks that cannot be removed by grinding approximately $\frac{1}{4}$ " deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	600
Beam Straightening	L.S.	1

PLAN & ELEVATION
F.A. RTE. 45 (U.S. 34)
OVER U.S. RTE 67
WARREN COUNTY
S.N. 094-0041

Job # 03 X 411

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094-0041

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	DRAWN - BCS	REVISED -
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PLOT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041

SCALE: N/A SHEET 1 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	120
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

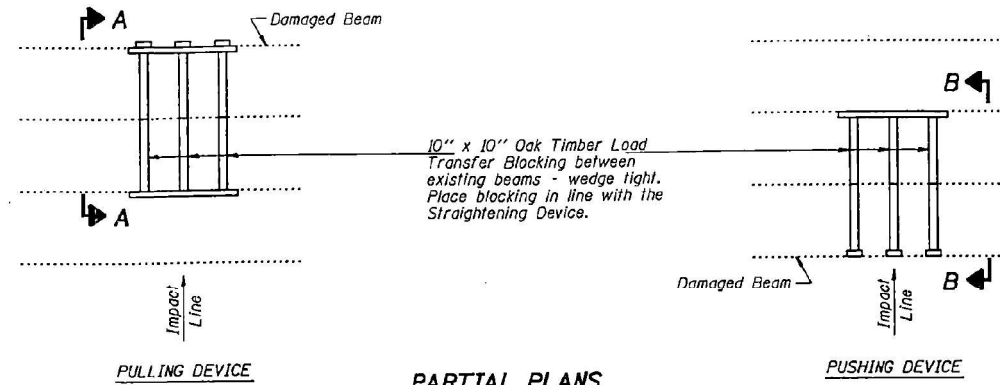
TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO:
184-001220

FOR INFORMATION ONLY
 LOCATION 10 (US 34 OVER US 67)
 SN 094-0041

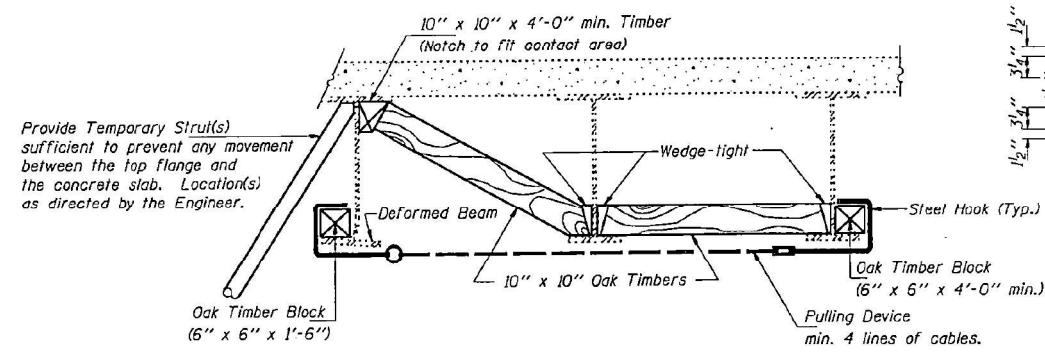
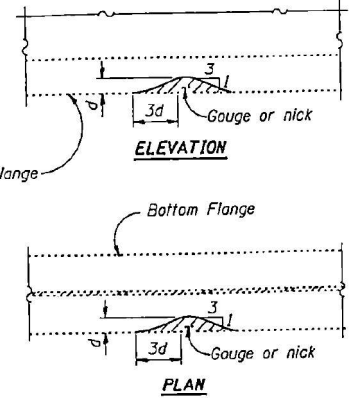
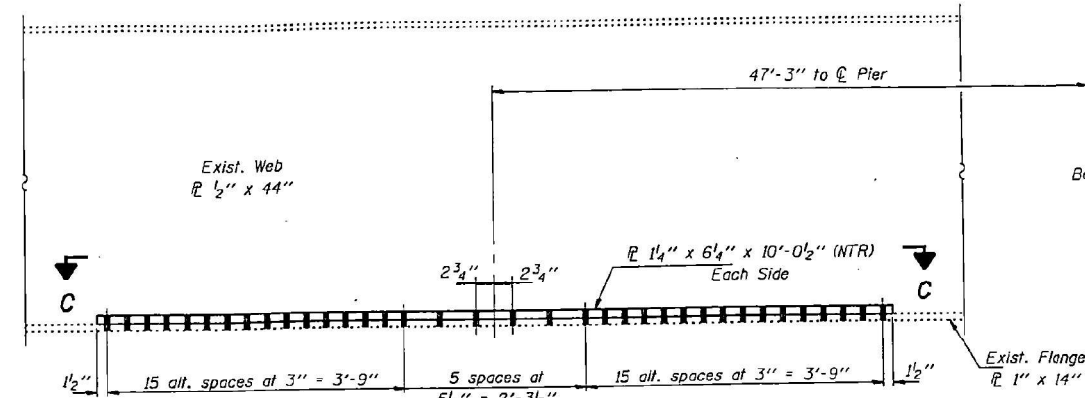
ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 2 2 SHEETS
		WARREN			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

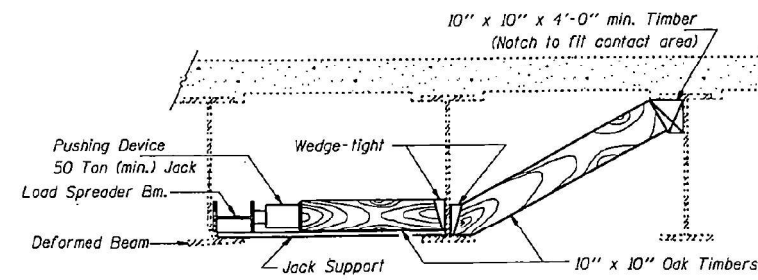


**PARTIAL PLANS
 SUGGESTED BEAM STRAIGHTENING METHODS**

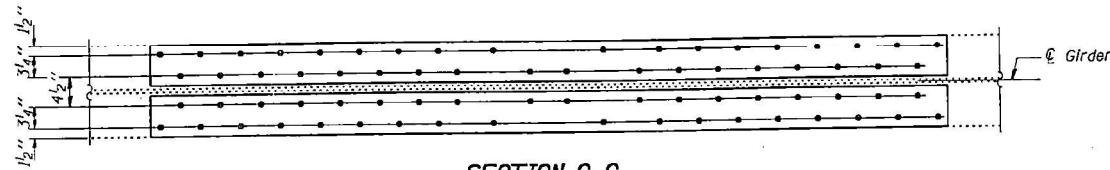
Straightening force shall be maintained on all load transfer blocking during beam straightening.



SECTION A-A

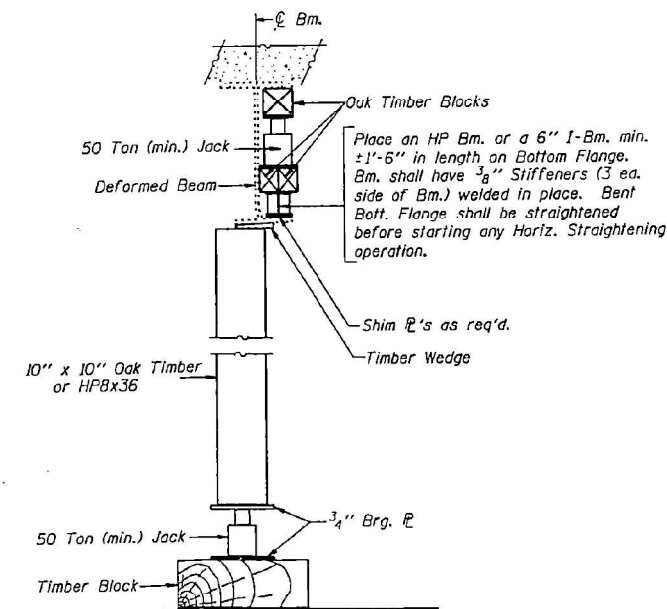


SECTION B-B



SECTION C-C

Note: The cost of field drilling required for installation of the steel members is included with Structural Steel Repair.



VERTICAL STRAIGHTENING DETAIL

**BEAM STRAIGHTENING
 & REPAIR DETAILS
 F.A. RTE. 45 (U.S. 34)
 OVER U.S. RTE 67
 WARREN COUNTY
 S.N. 094-0041**

DESIGNED	J.F.S.	OCTOBER 23, 2001
CHECKED	A.Y.V.	EXAMINED <i>John A. Morris</i>
DRAWN	D-Herbert	PASSED
CHECKED	J.F.S. A.Y.V.	ENGINEER OF BRIDGES AND STRUCTURES

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USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -
PLOT DATE = 9/8/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
 SN 094-0041

SCALE: N/A SHEET 2 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	WARREN	136	121
			CONTRACT NO. 68K62	
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY
 LOCATION 10 (US 34 OVER US 67)
 SN 094-0041

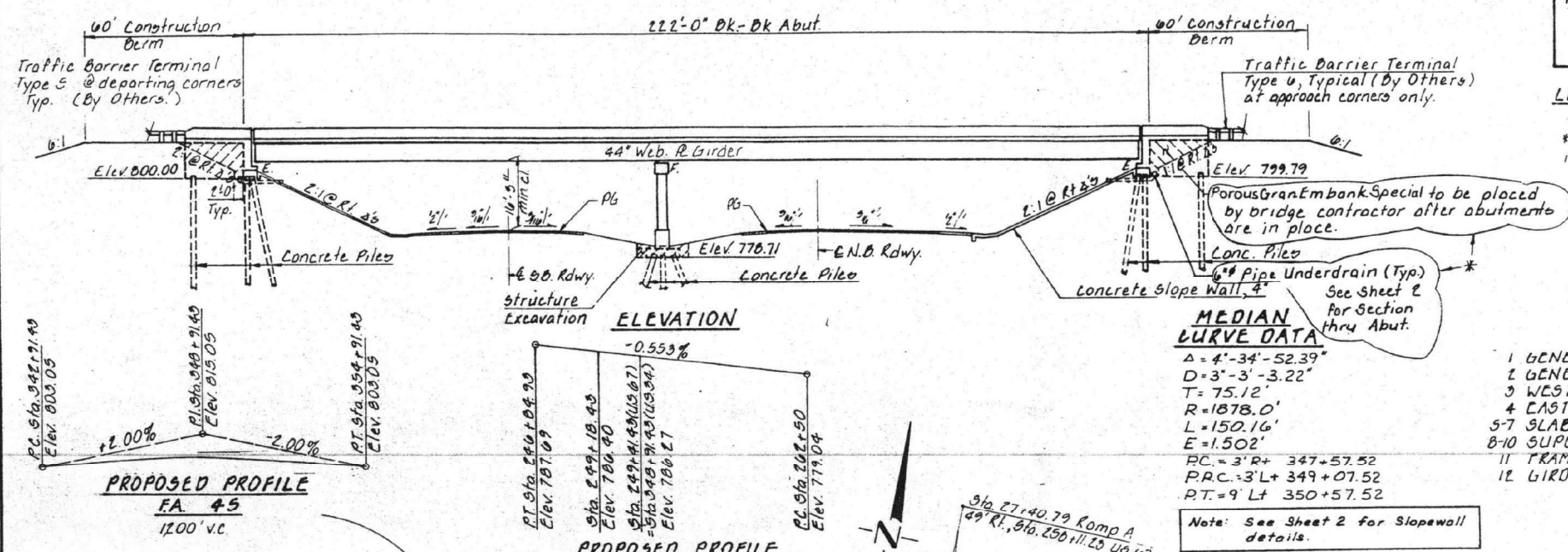
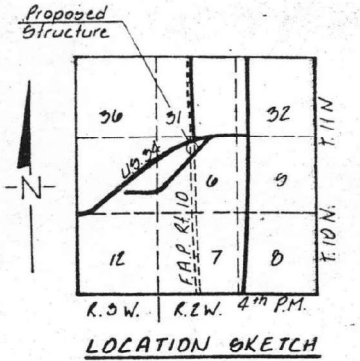
BM. 00H Cross Disk @ Rte 34 & Rte 67,
 0.0 mile west of State Maintenance
 Garage. Elev. 781.00
 No Existing Structure

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	4HB	WARREN	111	18

Sheet 1 of 20

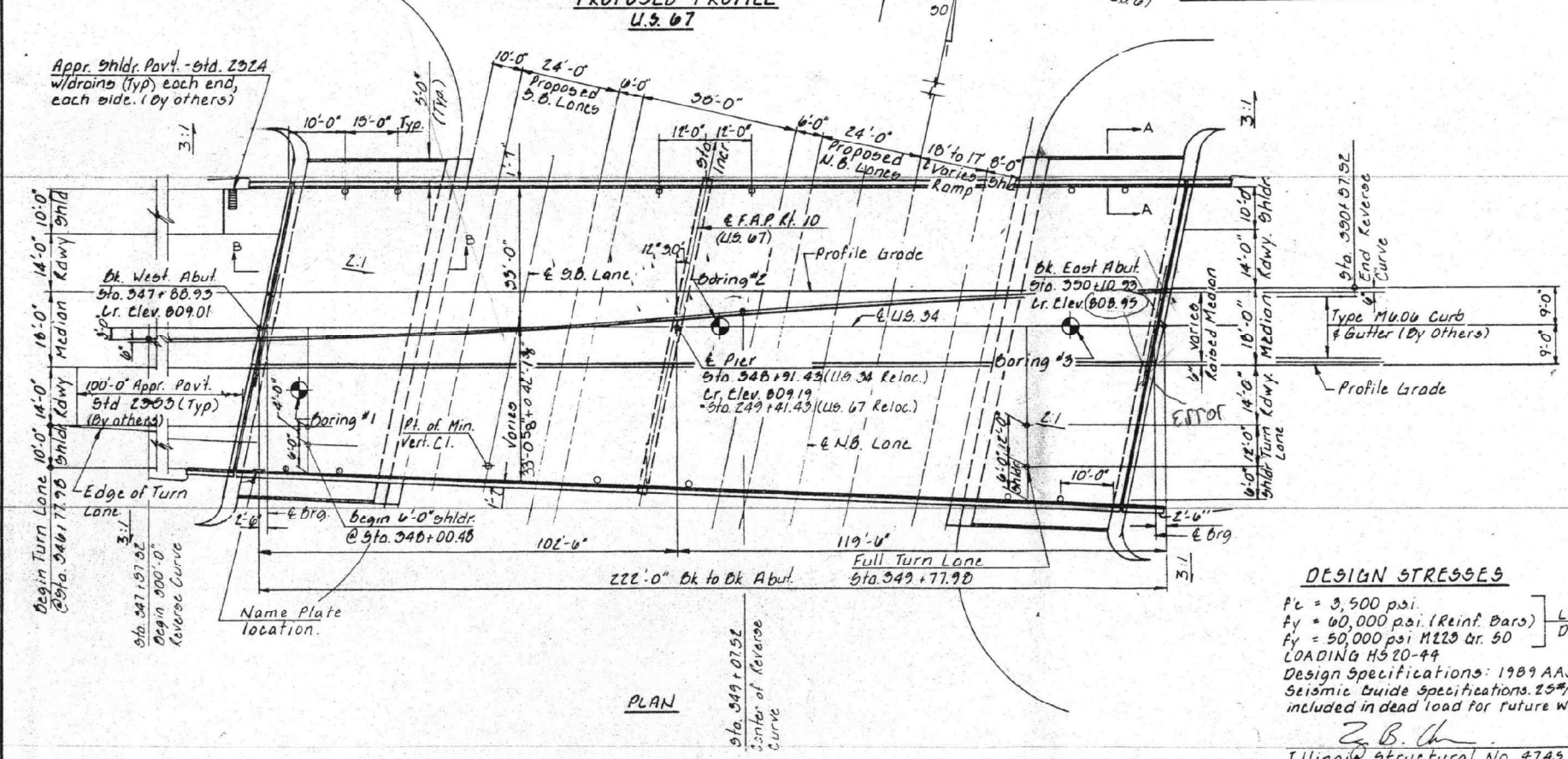
STATION 348+91.43
 BUILT 19-- BY
 STATE OF ILLINOIS
 **FA RT.45 SEL. 4HB
 LOADING H520
 STR. NO. 094-0041

LETTERING FOR NAME PLATE
 See Std. 2113
 ** Wherever FA. 45 is shown
 it shall be construed to mean FA. 313



INDEX OF SHEETS

1 GENERAL PLAN & ELEVATION	13 EXPANSION JOINT
2 GENERAL NOTES & BORINGS	14 BEARINGS
3 WEST EMBANKMENT	15 ANCHOR BOLTS
4 EAST EMBANKMENT	16-18 ABUTMENT DETAILS
5-7 SLAB ELEVATIONS	19 PIER
8-10 SUPERSTRUCTURE DETAILS	20 PILE ALTERNATES
11 TRAMMING PLAN	21-26 STATION CROSS SECTIONS
12 GIRDER DETAILS	



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete Superstructure	Cu. Yd	485.4		485.4
Class X Concrete	Cu. Yd		277.9	277.9
Reinforcement Bars, Epoxy Coated	Pound	194,540	93,780	100,260
Reinforcement Bars	Pound		1,820	1,820
Structural Steel	L. Sum	0.0		0.0
Concrete Piles	Lin. Ft.		3405	3405
Test Piles Concrete	Each		3	3
Name Plates	Each		1	1
Floor Drains	Each	12		12
Structure Excavation	Cu. Yd		287	287
Preformed Joint Seal 4"	Lin. Ft.	151		151
Bridge Seat Sealers	L. Sum		-9	-9
Protective Coat	Sq. Yd	1930		1930
Elastomeric Bearing Assembly, Type I	Each		20	20
Settlement Platforms	Each		4	4
Stud Shear Connectors	Each	4680		4680
Borrow Excavation	Cu. Yd		71.875	71.875
Top Soil Excavation	Cu. Yd		22.7	22.7
Porous Granular Embankment Special	Ton		205	205
Top Soil Placement 4"	Sq. Yd		6,549	6,549
Sloped Wall 4"	Sq. Yd		800	800
Seeding Class 3	Acre		3.0	3.0
Pipe Underdrains 6"	Lin. Ft.		160	160
Bridge Deck Grooving	Sq. Yd.	1426	160	1426

* includes Bridge Deck

DESIGN STRESSES
 Fc = 3,500 psi
 Fy = 60,000 psi (Reinf. Bars)
 Fy = 50,000 psi M220 Gr. 50
 LOADING H520-44
 Design Specifications: 1989 AASHTO & 1993
 Seismic Guide Specifications, 25#/Sq. Ft.
 included in dead load for future wearing surface.



GENERAL PLAN & ELEVATION
 F.A. ROUTE 45 (US 34) OVER
 U.S. ROUTE 67
 SECTION 4HB
 WARREN COUNTY
 STATION 348+91.43 SN. 094-0041

COLLINS AND RICE
 CONSULTING ENGINEERS

DESIGNED Z.B.U.
 DRAWN K.G.

CHECKED M.D.C.
 DATE 5-11-90 NO 2036

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PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
 SN 094-0041

SCALE: N/A SHEET 3 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D4	BRIDGE PAINTING 2026	WARREN	136	122

CONTRACT NO. 68K62
 ILLINOIS FED. AID PROJECT

* Added 3-1-91

FOR INFORMATION ONLY
 LOCATION 10 (US 34 OVER US 67)
 SN 094-0041

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	4HB	WARREN	111	28A
PROJECT: Sheet 1A of 20				

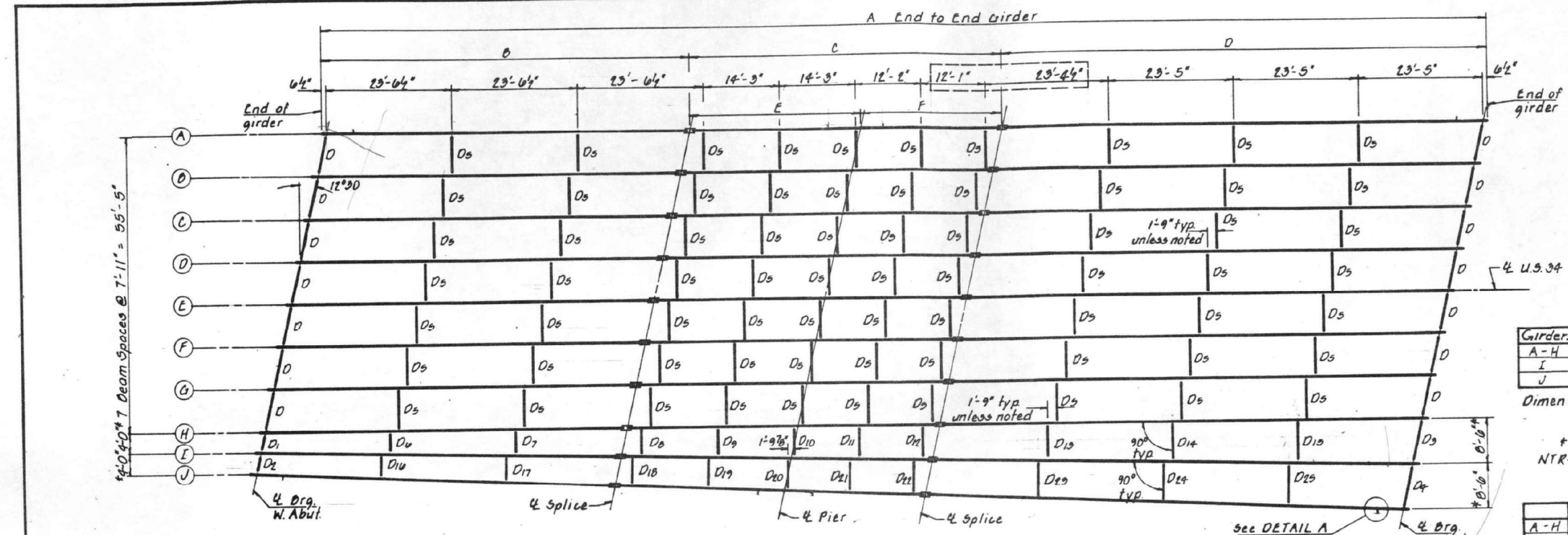


TABLE OF DIMENSIONS

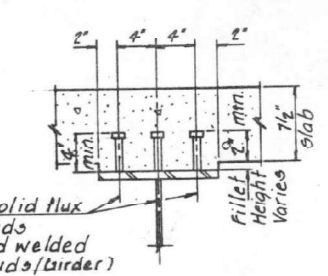
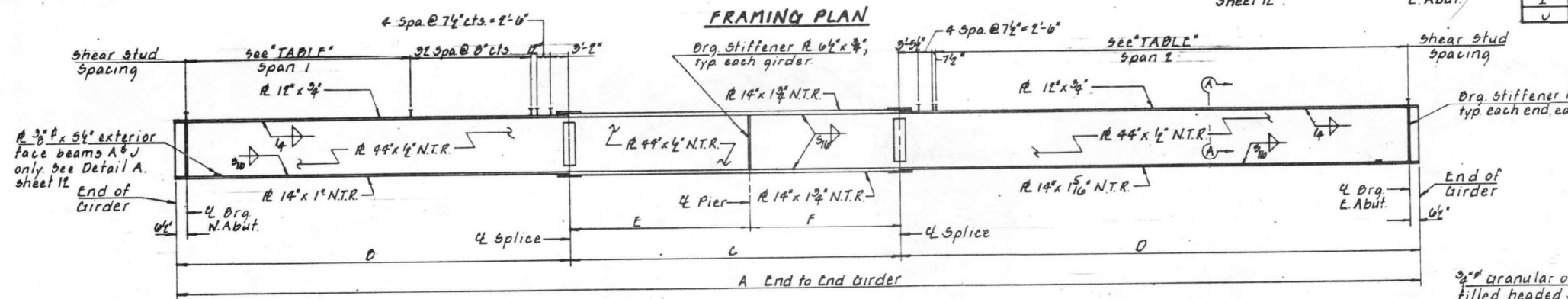
Girders	Dim. 'A'	Dim. 'B'	Dim. 'C'	Dim. 'D'	Dim. 'E'	Dim. 'F'
A-H	218'-1"	68'-6"	58'-5"	91'-14"	32'-0"	20'-5"
I	217'-1 3/4"	68'-2 1/8"	58'-1 1/8"	90'-8 3/4"	31'-10 1/4"	20'-3 3/4"
J	216'-3 3/4"	67'-11 3/8"	57'-11 1/8"	90'-4 1/4"	31'-8 3/4"	20'-2 3/8"

Dimensions along 1/2 girder

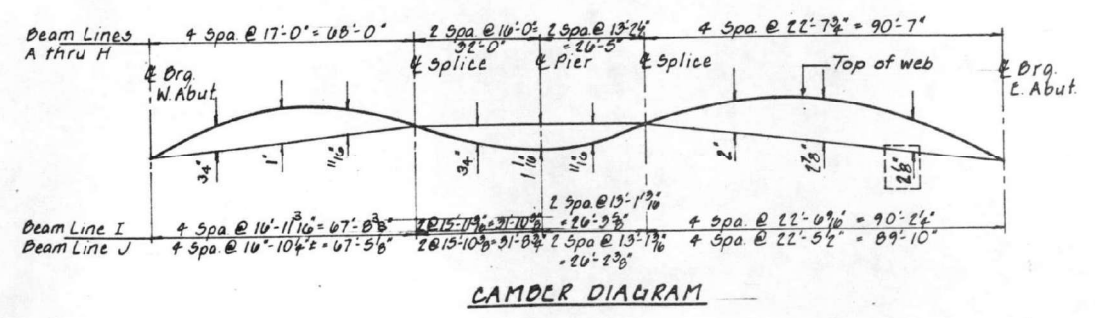
* @ Rt Δ's to 1/2 Roadway at 1/2 of bearing.
 NTR - Notch Toughness Requirements, Zone 2

STUD SPACING TABLE

	SPAN I	SPAN II
A-H	+0 Spa @ 12' cts = 40'-0"	72 Spa @ 14' cts = 84'-0"
I	+0 Spa @ 11 1/2' cts = 39'-8 3/8"	72 Spa @ 13 3/4' cts = 83'-7 1/4"
J	+0 Spa @ 11 1/8' cts = 39'-5 1/8"	72 Spa @ 13 1/8' cts = 83'-9"



Note: All flanges, webs, bearing stiffeners, and splice plate material shall be AASHTO M223, GR 50. All other structural steel shall be AASHTO M103



TOP OF WEB ELEVATIONS
 (For Fabrication Only)

Location	1/2 DRG. W. ABUT.	1/2 SPlice	1/2 DRG. PIER	1/2 SPlice	1/2 DRG. E. ABUT.
A	807.757	807.823	807.744	807.815	807.644
B	807.916	807.987	807.909	807.982	807.816
C	808.038	808.113	808.037	808.111	807.951
D	808.156	808.235	808.161	808.237	808.082
E	808.274	808.357	808.285	808.367	808.212
F	808.144	808.231	808.161	808.242	808.076
G	808.015	808.105	808.037	808.117	807.979
H	807.881	807.973	807.909	807.991	807.858
I	807.794	807.891	807.828	807.914	807.787
J	807.707	807.816	807.761	807.857	807.717

AS REVISED

SECTION A-A
 Contractor shall order length of studs after forms have been erected and fillet heights have been determined.

Work this sheet with sheet 12

FRAMING PLAN
 F.A. ROUTE 45 (U.S. 34) OVER
 U.S. ROUTE 67
 SECTION 4HB
 WARREN COUNTY
 STATION 348+91.43. SN 094-0041

COLLINS AND RICE
 CONSULTING ENGINEERS

DESIGNED Z.B.U. CHECKED M.D.C.
 DRAWN K.L. DATE 9-11-90 NO. 2536

Revised 10-22-91 Z.B.U.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
 SN 094-0041

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	123
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES

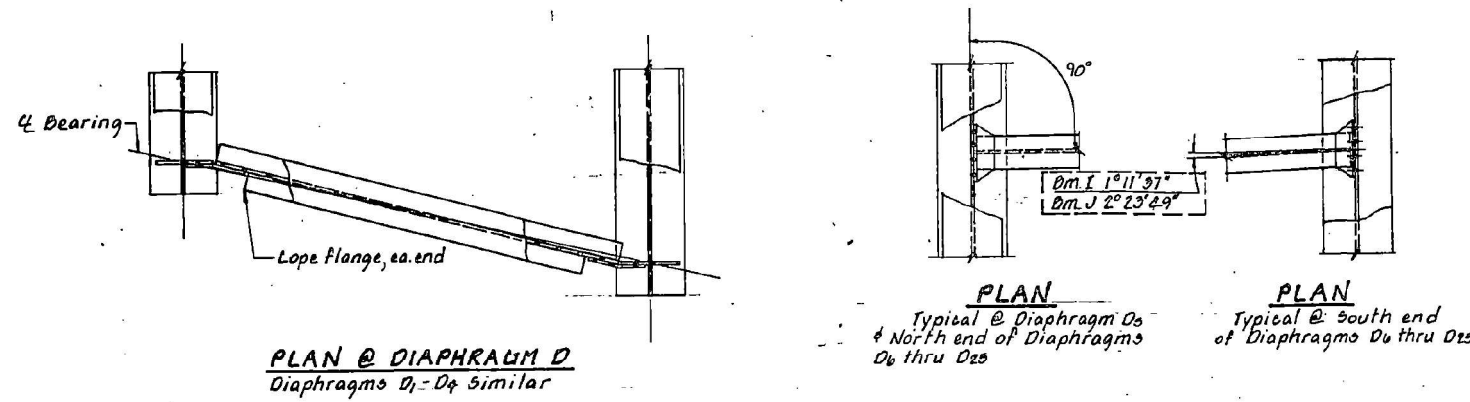
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 DRAWN - BCS
 CHECKED - TBP
 DATE - SEPT 2025

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 PLOT DATE = 9/8/2025

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FOR INFORMATION ONLY
 LOCATION 10 (US 34 OVER US 67)
 SN 094-0041

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 25	4HB	WARREN	111	29A
Sheet 12A of 20				

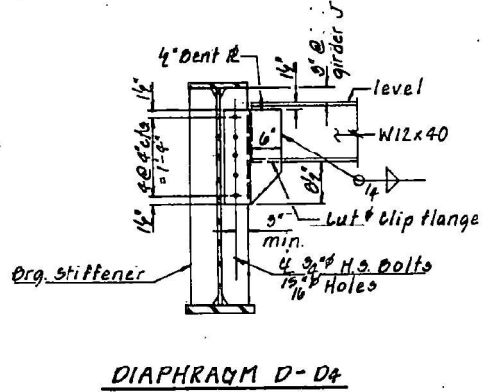


INTERIOR GIRDER REACTION TABLE

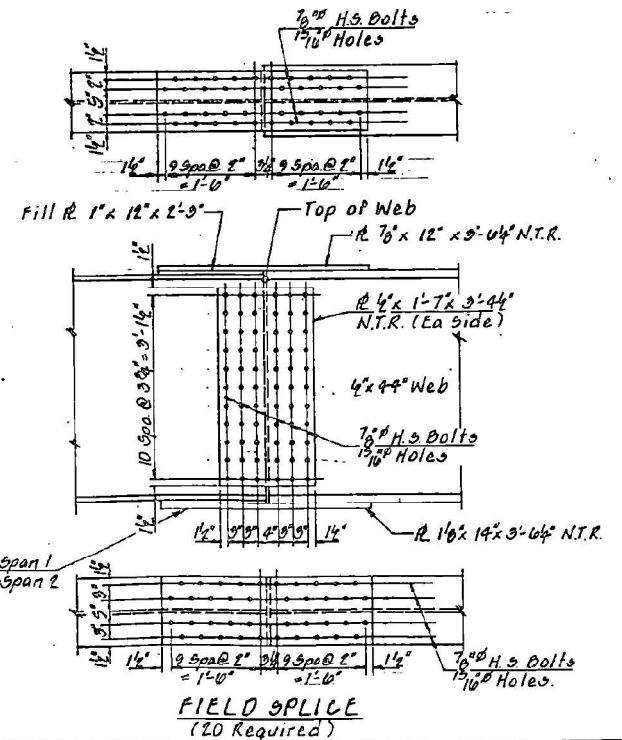
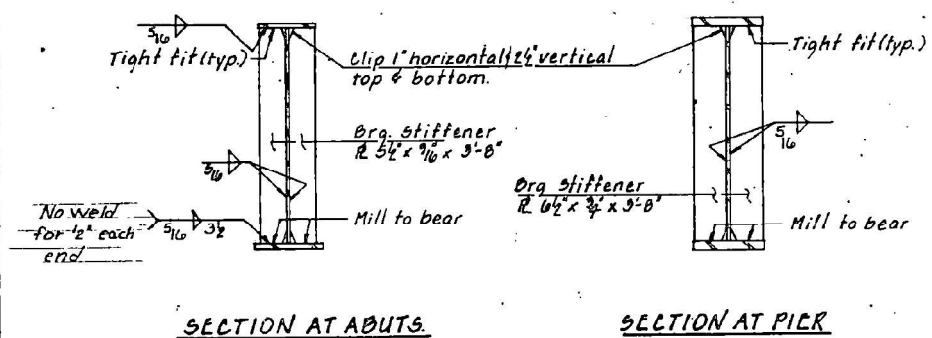
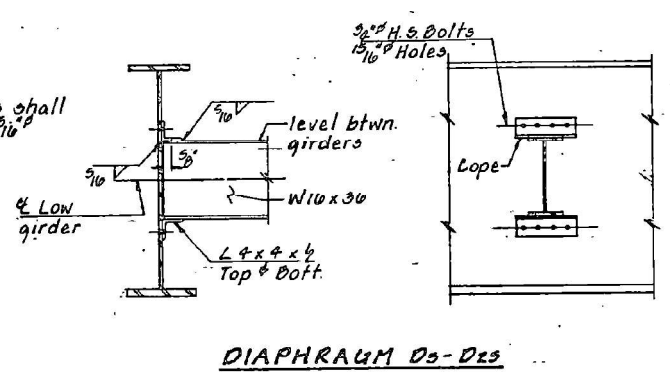
	W.ABUT.	PIER	E.ABUT.
R2 (K)	42.9	179.3	56.9
R4 (K)	50.6	79.8	51.7
RIMP (K)	10.4	17.1	10.7
R TOTAL (K)	103.9	276.2	119.3

INTERIOR GIRDER MOMENT TABLE

	0.4 SPAN 1	PIER	0.6 SPAN 2
Is (in ⁴)	19,857	29,202	16,553
Ic (in ⁴)	29,403	-	33,511
IcL (in ⁴)	40,504	-	47,115
Ss (in ³)	770	1,230	873
Sc (in ³)	944	-	1,129
ScL (in ³)	1,034	-	1,234
M N.L. (K/FT)	0.936	1.360	0.950
M Δ N.C. (FT-K)	4.69	2.144	0.98
M Δ C. (K/FT)	0.318	-	0.318
M Δ L. (FT-K)	216	-	257
M L. (FT-K)	918	835	1087
M IMP. (FT-K)	197	179	241
M _g (M L + I) (FT-K)	1,058	1,090	2,213
M _o (FT-K)	3,306	4,784	4,508
f _o Δ N.L. (ksi)	7.8	20.9	12.3
f _o Δ L. (ksi)	2.7	-	3.8
f _o Δ (L + I) (ksi)	21.6	10.5	21.5
f _o OVERLOAD (ksi)	32.1	37.4	37.6
f _o TOTAL (ksi)	41.1	48.0	48.9
V _R (K)	62.3	-	60.9



Note: Two hardened washers shall be required over all 1 1/8" holes.



Note: All flanges, webs, bearing stiffener, and splice plate material shall be AASHTO M223, Gr. 50. All other structural steel shall be AASHTO M183.

AS REVISED

Work this sheet with sheet 11

GIRDER DETAILS
 FA ROUTE 45 (U.S. 34) OVER
 U.S. ROUTE 67
 SECTION 4HB
 WARREN COUNTY
 STATION 348+91.43 SN. 094-0041

COLLINS AND RICE
 CONSULTING ENGINEERS

DESIGNED ZDU
 DRAWN KLG

CHECKED M.D.C.
 DATE 5-11-90 NO. 2536

Revised 10-11-91 ZDU

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 DATE: 9/8/2025

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

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PLLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

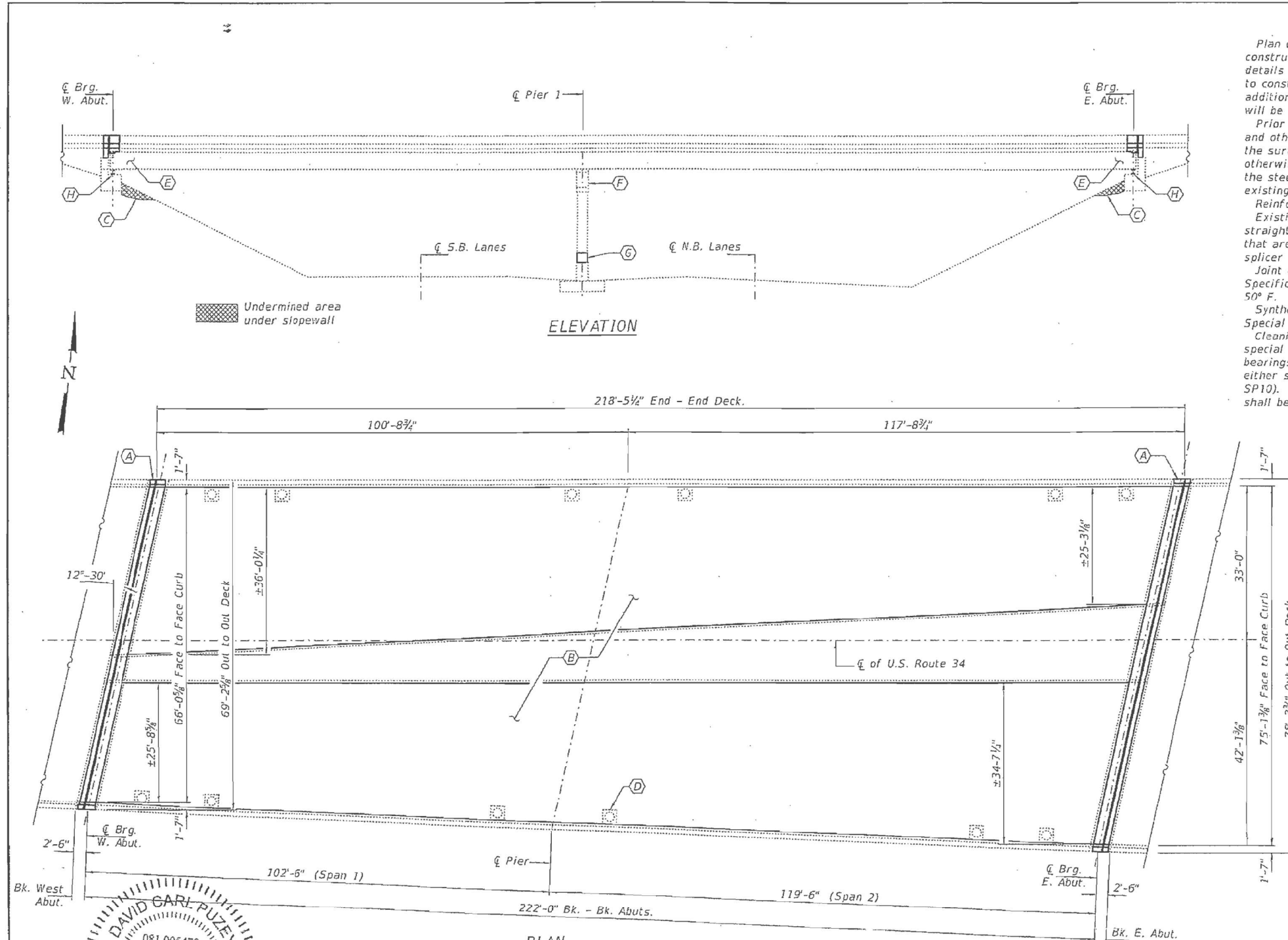
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
 SN 094-0041

SCALE: N/A SHEET 5 OF 12 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	124
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041



GENERAL NOTES

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

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.

Reinforcement bars designated (E) shall be epoxy coated.

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 Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 10 feet (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP15).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of Zinc rich / Epoxy / Urethane. 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 the exterior and bottom flange of the fascia beams shall be Blue (Munsell No. 10B 3/6).

Containment of cleaning residue is required to control nuisance dust. See Special Provisions.

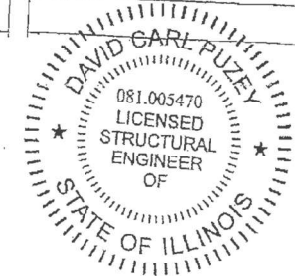
SSPC QP1 Certification is required for this Contract.

Work to be completed under road closure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	16.0
Concrete Structures	Cu. Yd.	9.1
Concrete Superstructure	Cu. Yd.	16.0
Preformed Joint Strip Seal	Foot	154
Reinforcement Bars, Epoxy Coated	Pound	4020
Bridge Deck Scarification, 3/4"	Sq. Yd.	1450
Bridge Deck Latex Conc. Overlay, 2 1/4"	Sq. Yd.	1450
Bridge Deck Grooving	Sq. Yd.	1353
Protective Coat	Sq. Yd.	1450
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	42
Floor Drain Extensions	Each	12
Jack and Remove Existing Bearings	Each	20
Elastomeric Bearing Assembly, Type I	Each	20
Anchor Bolts, 1"Ø	Each	40
Slope Wall Slurry Pumping	Cu. Yd.	10
Containment and Disposal of Non-Lead Paint Cleaning Residue	L. Sum	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1

* Apply to new concrete and overlay only.



- (A) - Remove existing preformed joint seal and install new Preformed Joint Strip Seal.
- (B) - Scarify Original deck 3/4" and install new 2 1/4" Latex Overlay on the existing deck. See sheet 2 of 9 for details.
- (C) - Slopewall slurry pumping. (Grout gap between cap and slopewall and undermined area under slopewall.)
- (D) - Extend deck drains below bottom flanges. (12 locations)
- (E) - Paint the beam ends.
- (F) - Pier Cap Repair.
- (G) - Crashwall extension.
- (H) - Bearing Replacement.

DESIGNED - V. H. Velez	EXAMINED - T. A. [Signature]	DATE - NOVEMBER 27, 2019
CHECKED - [Signature]	PASSED - [Signature]	REVISED -
DRAWN - Vertical Realty	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - [Signature]		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
FA 45 (U.S. 34) OVER U.S. RTE 67
SN 094-0041
 SHEET NO. 1 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4B;101B-11B]	WARREN	38	29
CONTRACT NO. 68D86			ILLINOIS FED. AID PROJECT	

MODEL: D:\45\11... FILE NAME: P:\2023\230904\227 - Bridge Painting (FY 2026)\4. CO.D - DWG\4.7. Trac\CADD_Sheet\0468K62-2R-Structural.ctb 08.49p



USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DESIGNED - BCS	DRAWN - BCS	REVISED -
DESIGNED - BCS	CHECKED - TBP	REVISED -
DESIGNED - BCS	DATE - SEPT 2025	REVISED -

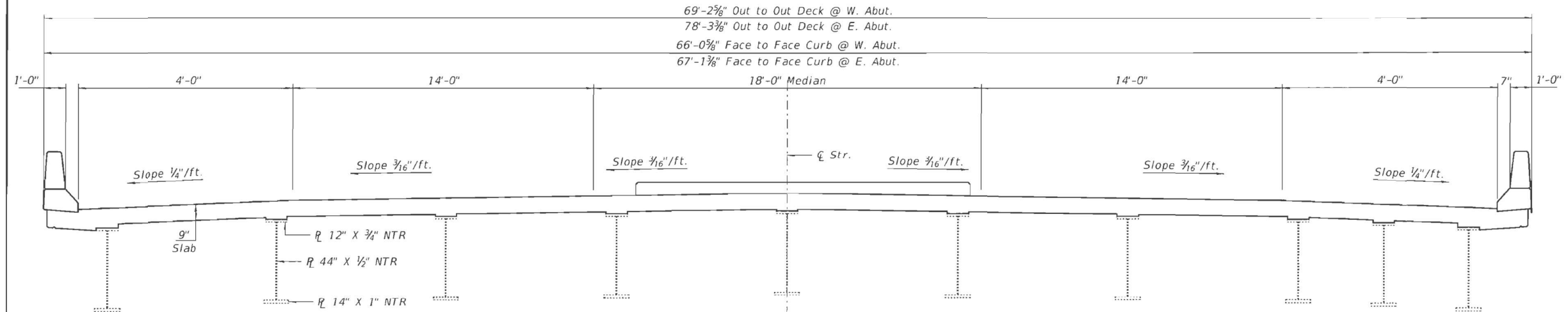
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041

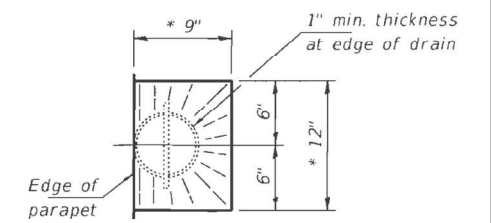
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	125
CONTRACT NO. 68K62			ILLINOIS FED. AID PROJECT	

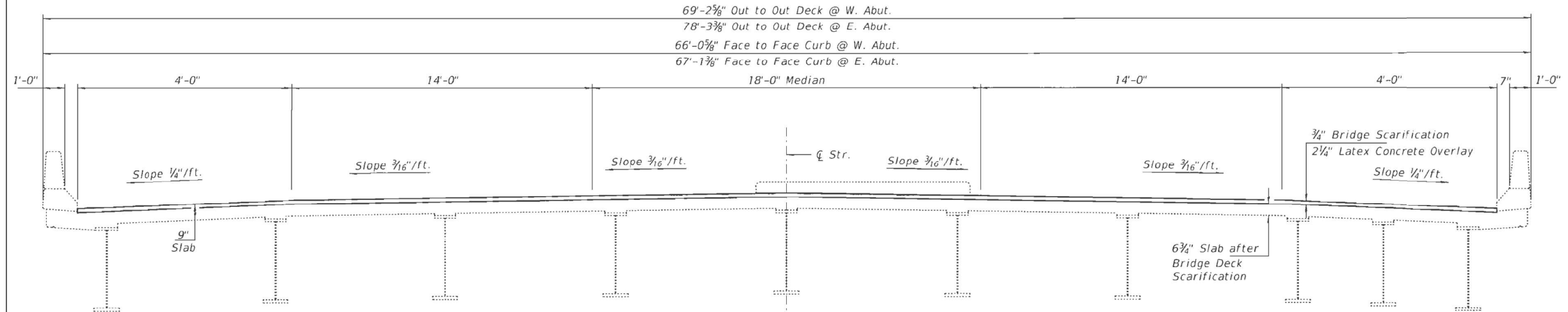
FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041



CROSS SECTION AT ABUTMENTS
 (Looking East)



DRAIN DETAIL
 * slope to drain



CROSS SECTION AT MID-SPAN
 (Looking East)

DESIGNED - VHV	EXAMINED - <i>Timothy A. Reddy</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	PASSED - <i>Carl P. ...</i>	REVISED -
DRAWN - Venkat Reddy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - VHV JSB		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS & STAGING DETAILS
SN 094-0041

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	I4HB;101VB-1 BR	WARREN	38	21
CONTRACT NO. 68D86				
ILLINOIS FED AID PROJECT				

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

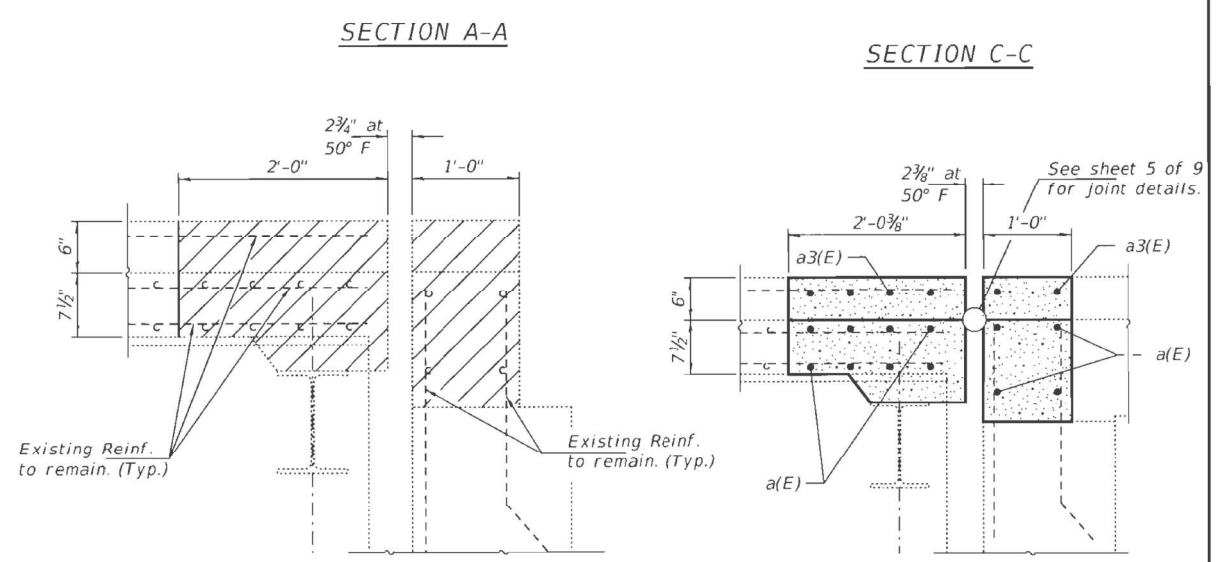
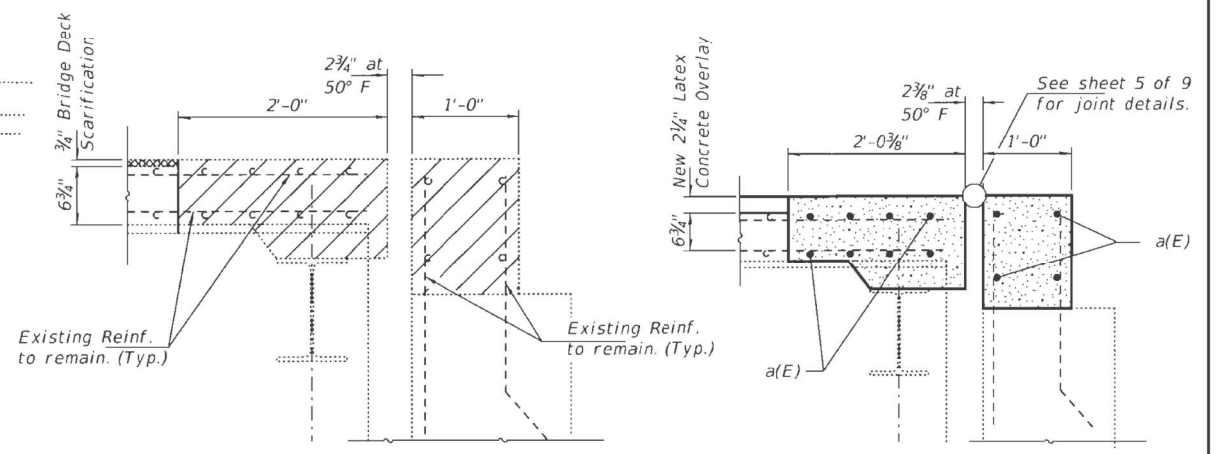
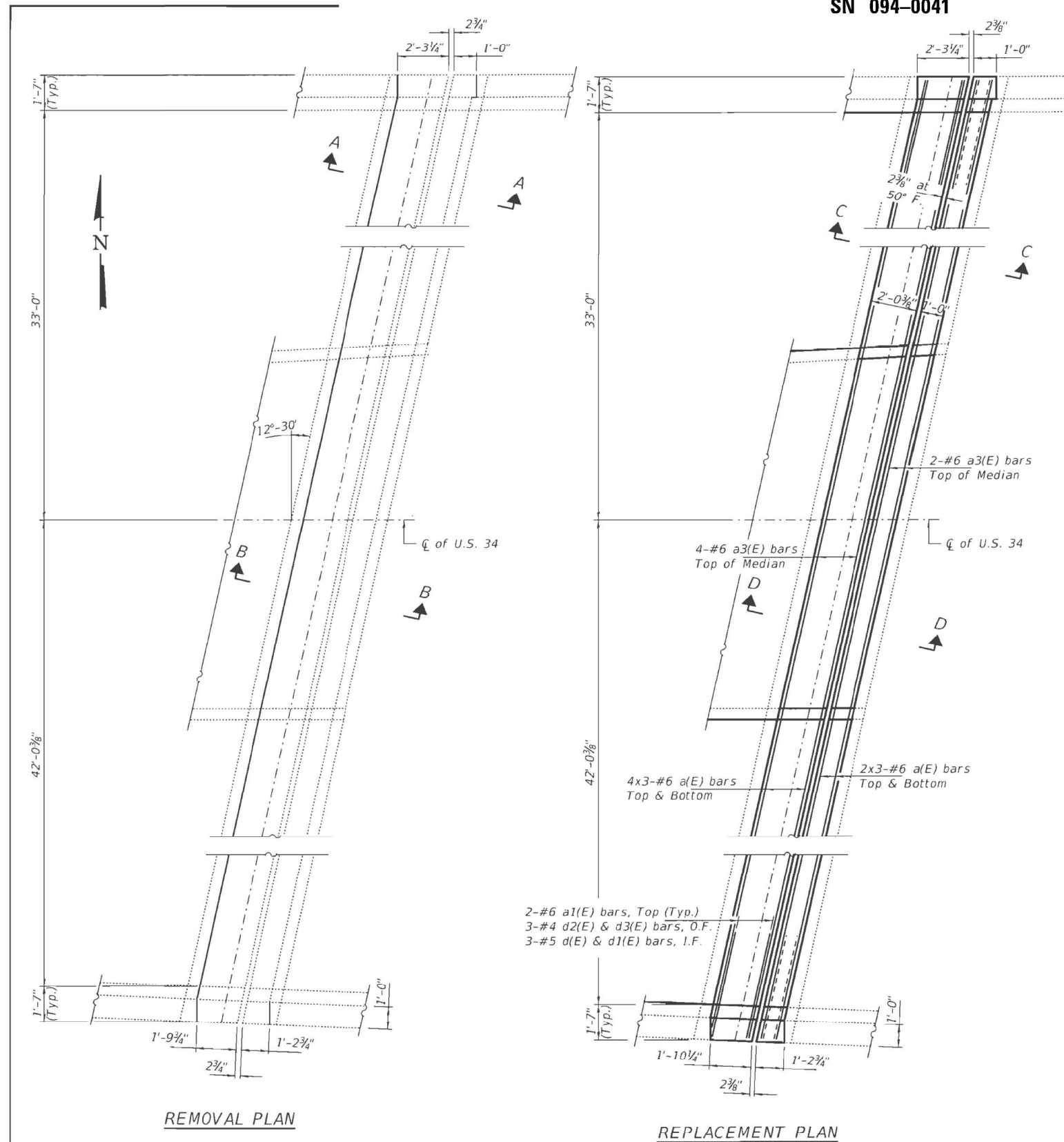
LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041

SCALE: N/A	SHEET 7	OF 12 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	126
CONTRACT NO. 68K62				
ILLINOIS FED AID PROJECT				

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FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041



Notes:
 See sheet 5 of 9 for Section Thru Bridge Parapet, Section Thru Approach Parapet, Bill of Material, Section Thru Median and reinforcement bending diagrams.
 Hatched areas indicate Concrete Removal.
 Bars indicated thus 6x2-#6 etc. indicates 6 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
 #6 bar = 4'-10"

DESIGNED - VHV	EXAMINED - <i>Timothy A. ...</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	PASSED - <i>...</i>	REVISED -
DRAWN - Venkat Reddy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - VHV JSB		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS - EAST ABUTMENT
SN 094-0041
 SHEET NO. 3 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HB:101VB-1]BR	WARREN	38	22
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000" / 1'	DRAWN - BCS	REVISED -
PLOT DATE = 9/8/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

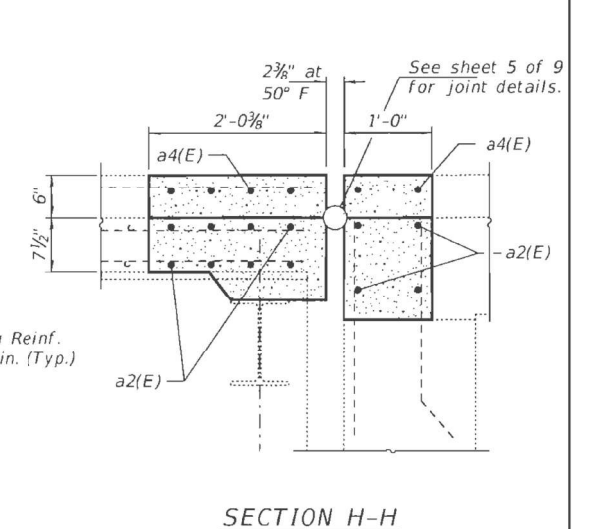
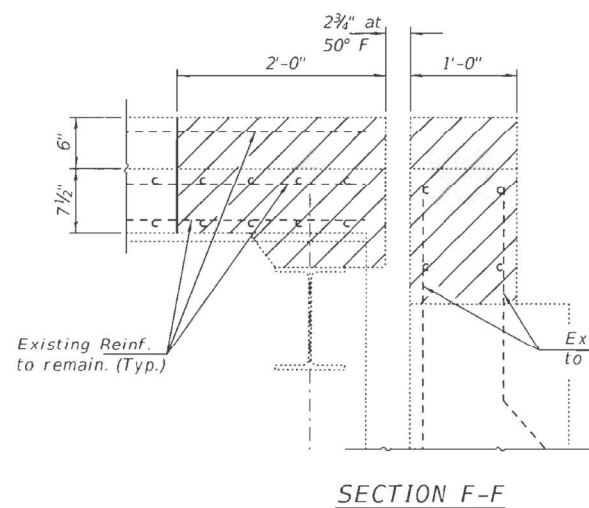
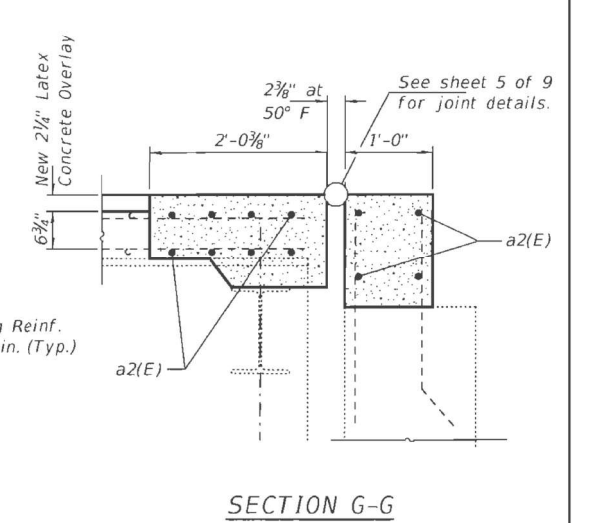
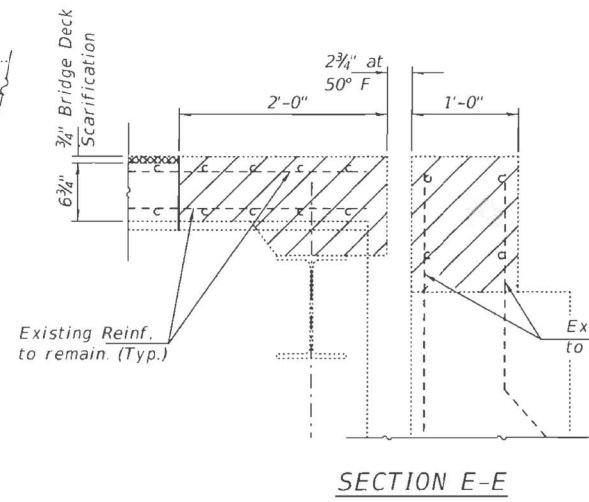
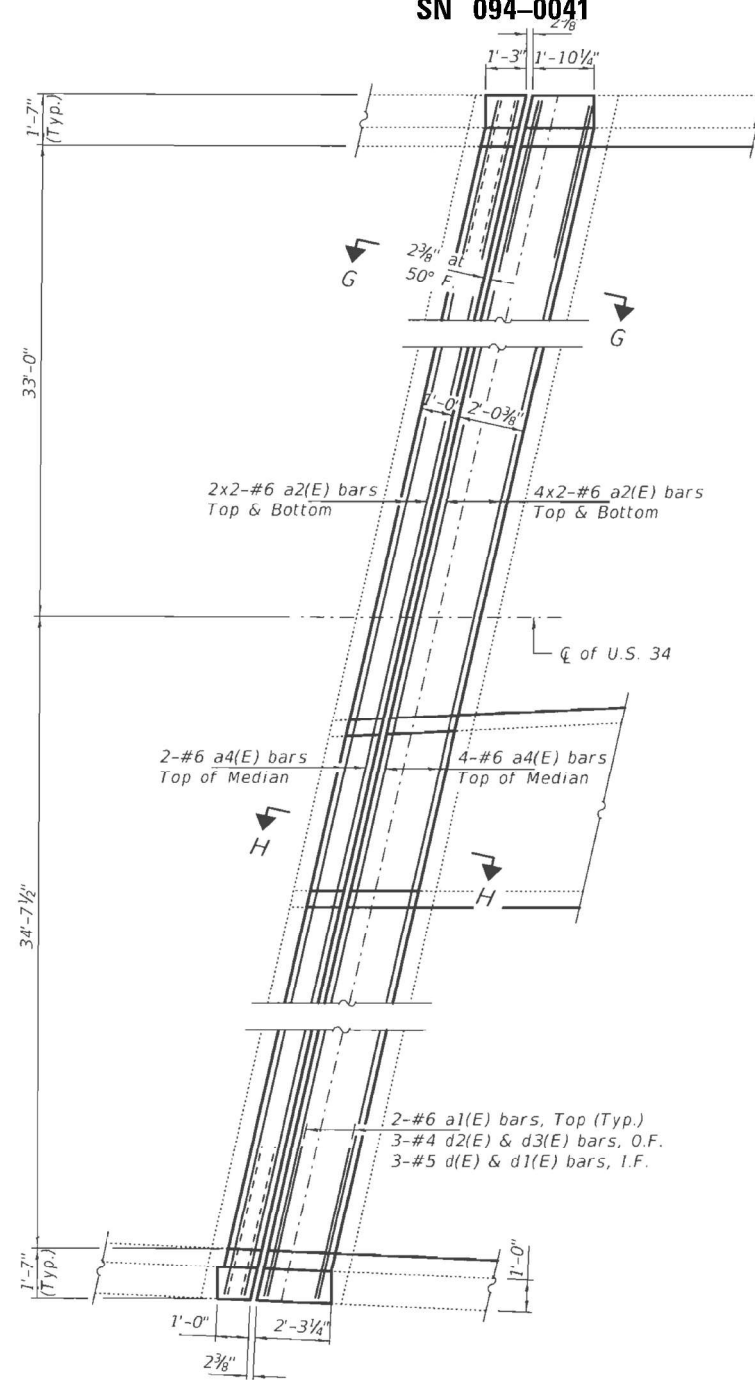
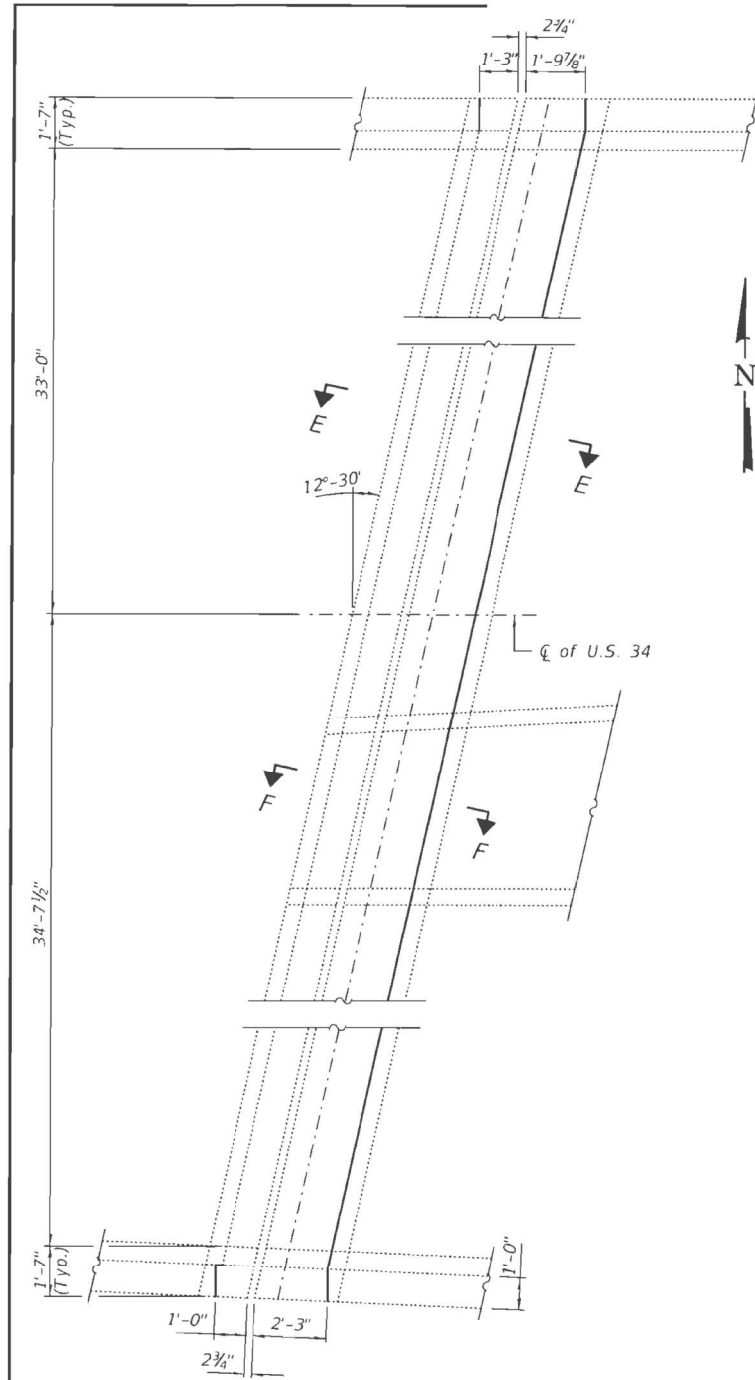
LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	127
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: P:\2023\2309040227 - Bridge Painting (FY 2026)\4. CO.D - DWG\4.7. Trac\CADD_Sheet\0468K62-2ht-structural.ctb 08.dgn



**FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041**



Notes:
See sheet 5 of 9 for Section Thru Bridge Parapet, Section Thru Approach Parapet, Bill of Material, Section Thru Median and reinforcement bending diagrams.
Hatched areas indicate Concrete Removal.
Bars indicated thus 6x2-#6 etc. indicates 6 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#6 bar = 4'-10"

DESIGNED - VHV	EXAMINED - <i>Timothy A. ...</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	PASSED - <i>...</i>	REVISED -
DRAWN - Venkat Reddy	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - VHV JSB		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS - WEST ABUTMENT
SN 094-0041**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HR,101VB-1]BR	WARREN	38	23
CONTRACT NO. 68D86				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	128
CONTRACT NO. 68K62				

SCALE: N/A SHEET 9 OF 12 SHEETS STA. TO STA.

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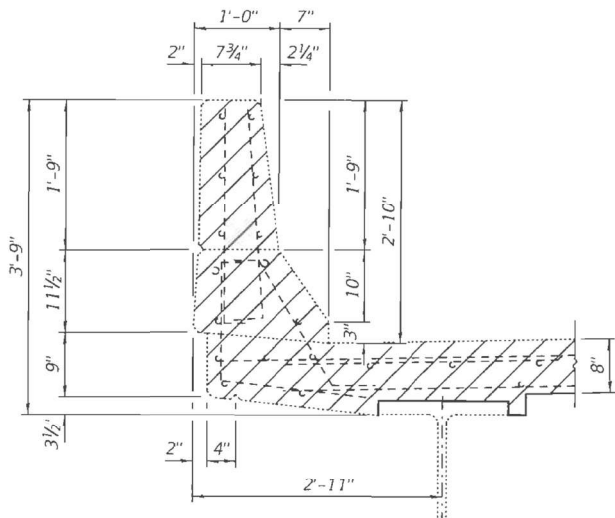


TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM LICENSE NO: 184-001220

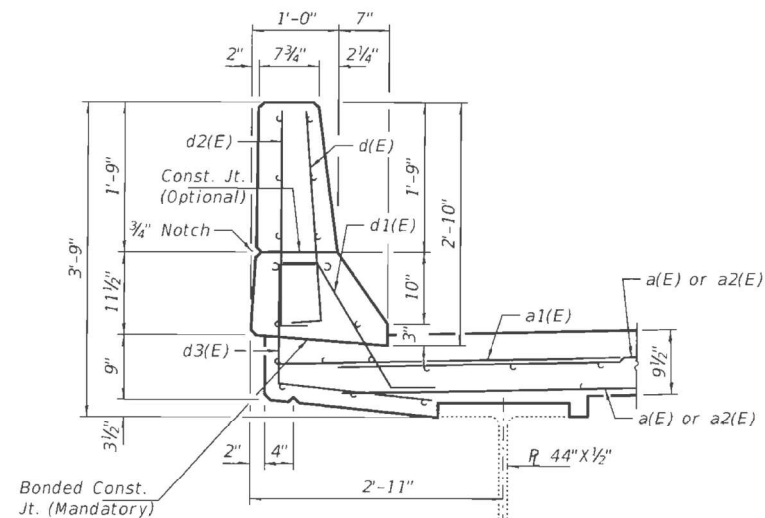
USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - BCS	REVISED -
PLOT DATE = 9/9/2025	CHECKED - TBP	REVISED -
	DATE - SEPT 2025	REVISED -

ILLINOIS FED. AID PROJECT

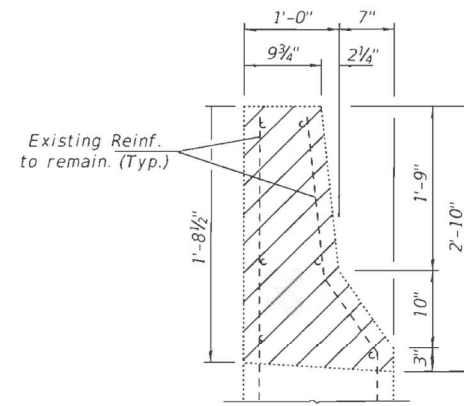
**FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041**



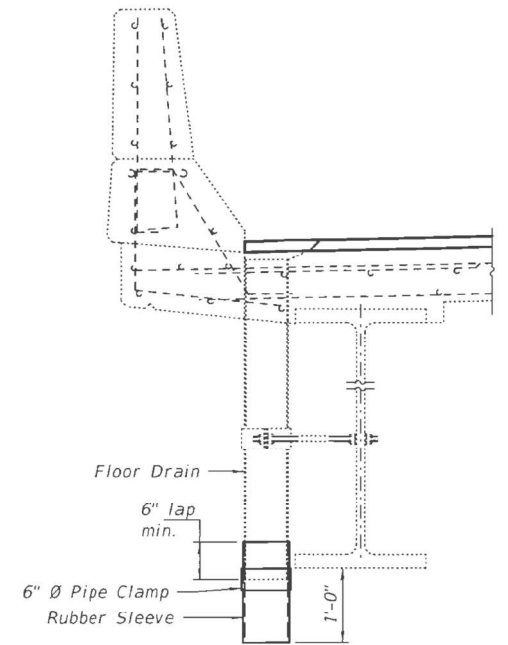
SECTION THRU BRIDGE PARAPET



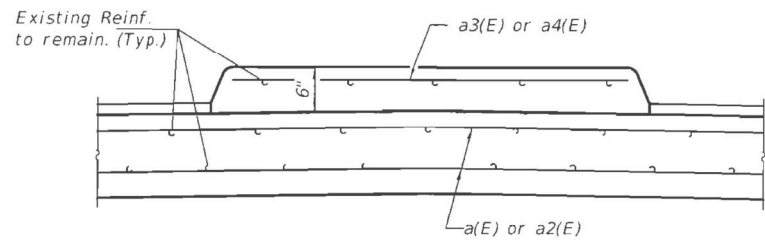
SECTION THRU BRIDGE PARAPET



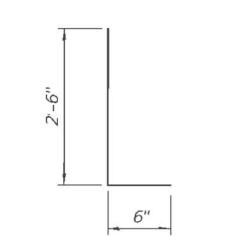
SECTION THRU WINGWALL



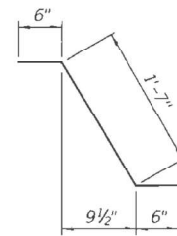
**FLOOR DRAIN EXTENSION
(12 Required)**



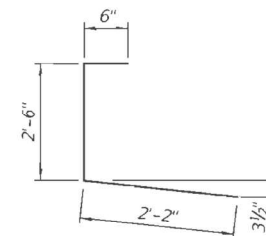
SECTION THRU MEDIAN



BAR d(E) & d2(E)



BAR d1(E)



BAR d3(E)

**BILL OF MATERIAL
(2 ABUTS. & 1 PIER)**

Bar	No.	Size	Length	Shape
a(E)	36	#6	30'-0"	—
a1(E)	8	#6	4'-0"	—
a2(E)	24	#6	27'-0"	—
a3(E)	6	#5	15'-11"	—
a4(E)	6	#5	5'-1"	—
d(E)	12	#5	3'-0"	L
d1(E)	12	#5	2'-7"	∩
d2(E)	12	#4	3'-0"	J
d3(E)	12	#4	4'-1"	L
Concrete Removal			Cu. Yd.	16.0
Concrete Superstructure			Cu. Yd.	16.0
Reinforcement Bars, Epoxy Coated			Pound	2910

DESIGNED - VHV
CHECKED - JSB
DRAWN - Venkat Reddy
CHECKED - VHV JSB

EXAMINED *Timothy A. Hout* DATE - NOVEMBER 27, 2019
PASSED *David Carl Perry* ENGINEER OF BRIDGES AND STRUCTURES
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS
SN 094-0041**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4]B.101VB-1]BR	WARREN	38	24
CONTRACT NO. 68DB6				



TWM, INC.
www.twm-inc.com
ILL. DESIGN FIRM LICENSE NO. 184-001220

USER NAME = bstambaugh
DESIGNED - BCS
DRAWN - BCS
CHECKED - TBP
DATE - SEPT 2025

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041**

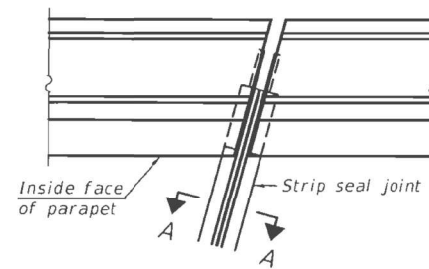
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	129
CONTRACT NO. 68K62				

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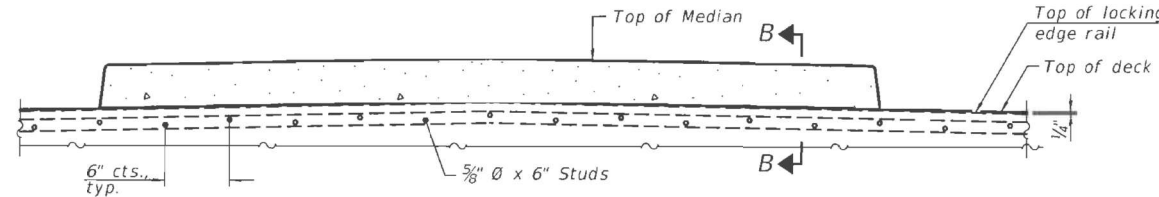
ILLINOIS FED. AID PROJECT

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FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041

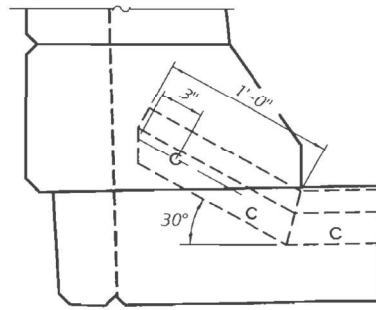


FOR SKEWS $\leq 30^\circ$
PLAN AT PARAPET

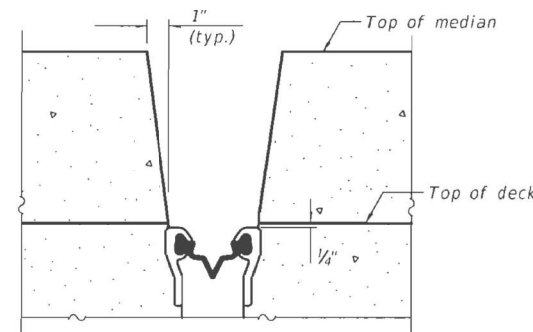


ELEVATION AT MEDIAN

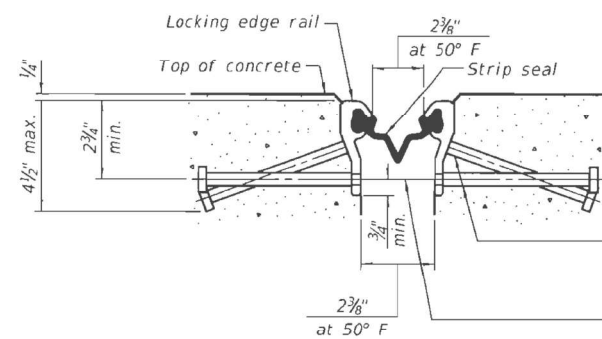
For skews $> 30^\circ$, chamfer acute corners 2" similar to sidewalk.



DETAIL A



SECTION B-B
(at Rt. L's)



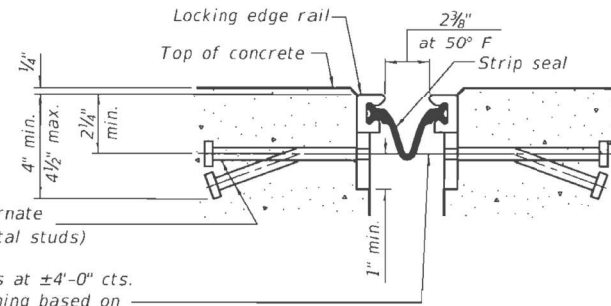
SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

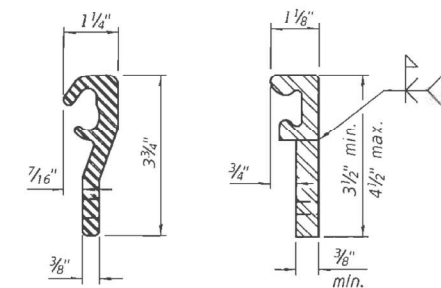
$\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

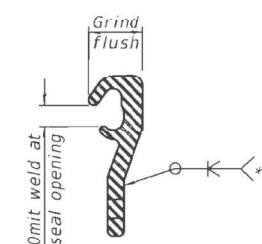


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	154

DESIGNED - VHV	EXAMINED - <i>Timothy A. Blot</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	PASSED - <i>Carl King</i>	REVISOR -
DRAWN - daburdell	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - VHV JSB		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 094-0041

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
45	[4HB:101VB-1]BR	WARREN	38	25
CONTRACT NO. 68D86				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	130
CONTRACT NO. 68K62				

SCALE: N/A SHEET 11 OF 12 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

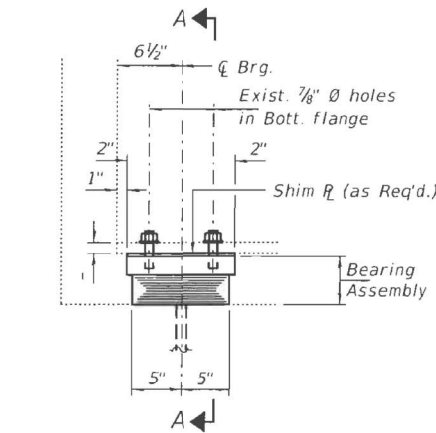
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TWM
ENGINEERING
GEOSPATIAL SERVICES

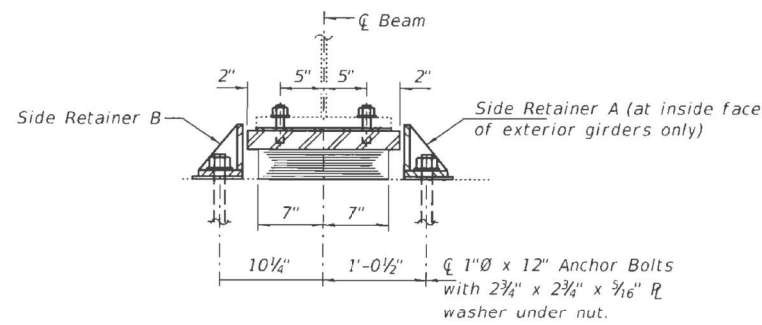
TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
DESIGNED - BCS	DRAWN - BCS	REVISED -
PLGT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -
DATE = 9/9/2025	DATE - SEPT 2025	REVISED -

FOR INFORMATION ONLY
LOCATION 10 (US 34 OVER US 67)
SN 094-0041

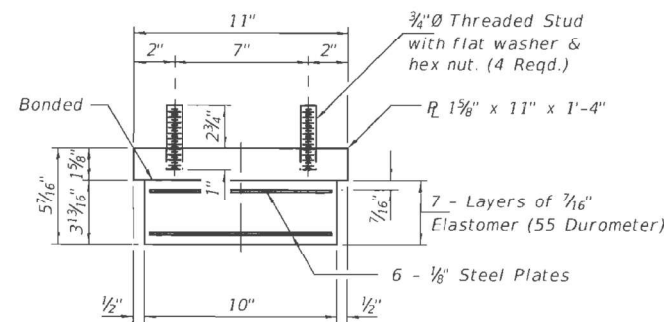


ELEVATION AT ABUTMENT

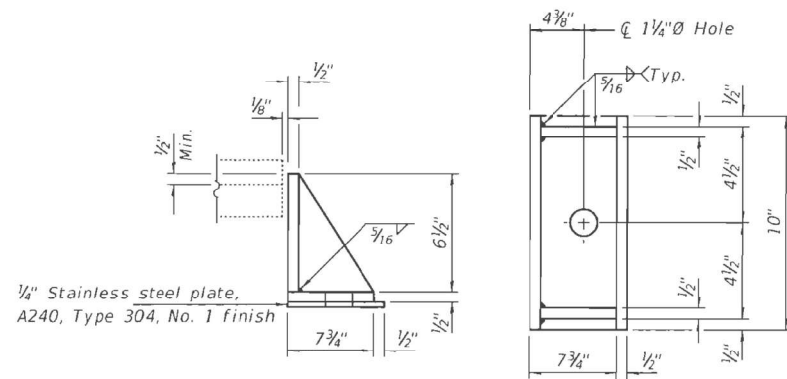


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

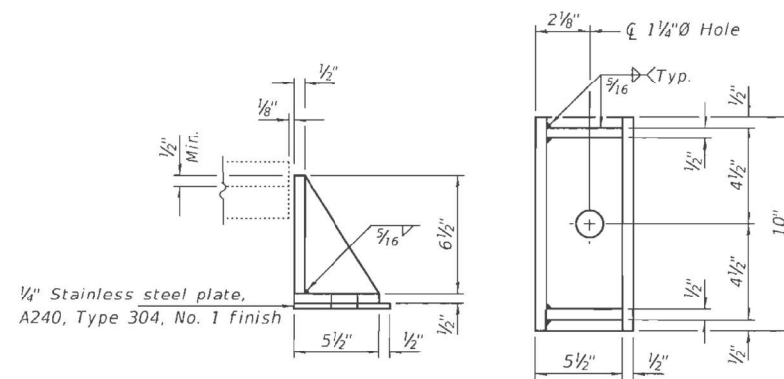


BEARING ASSEMBLY



SIDE RETAINER A

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. (4 locations)



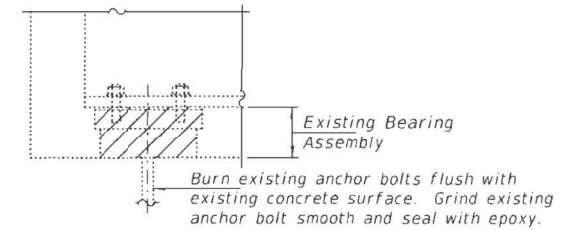
SIDE RETAINER B

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. (36 required)

BEAM REACTIONS

R _l	(K)	56.9
R _r	(K)	51.7
Imp.	(K)	10.7
R (Total)	(K)	119.3

Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New 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 = 45 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.



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	20
Jack and Remove Existing Bearings	Each	20
Anchor Bolts, 1"Ø	Each	40

DESIGNED - VHV	EXAMINED - <i>Timothy A. Daulton</i>	DATE - NOVEMBER 27, 2019
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED - <i>Carl Ringer</i>	REVISED -
CHECKED - VHV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
SN 094-0041

F.A. RTE. 45	SECTION [4]HR:101VB-1]BR	COUNTY WARREN	TOTAL SHEETS 38	SHEET NO. 26
CONTRACT NO. 68D86				
ILLINOIS FED. AID PROJECT				

USER NAME = bstambaugh	DESIGNED - BCS	REVISED -
	DRAWN - BCS	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - TBP	REVISED -
PLOT DATE = 9/9/2025	DATE - SEPT 2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 10 - STRUCTURE INFORMATION
SN 094-0041

F.A. RTE. VAR	SECTION D4 BRIDGE PAINTING 2026	COUNTY WARREN	TOTAL SHEETS 136	SHEET NO. 131
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 12 OF 12 SHEETS STA. TO STA.

MODEL: D:\d4\11... FILE NAME: P:\2023\2309040227 - Bridge Painting (FY 2026)\IL CO.D - DWG\4.7 Trn\CADD_Sheet\0468K62-Str\Structural.ctb, 08.dgn



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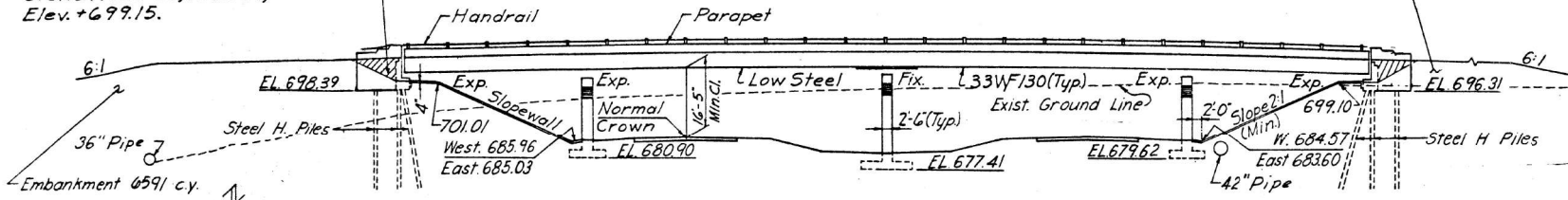
FOR INFORMATION ONLY
LOCATION 11 (TR 235 OVER I-74)

SN 048-0050

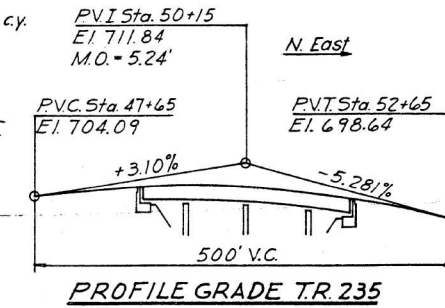
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	48-29 HB	KNOX	28	6
SHEET NO. 1 OF 9 SHEETS				

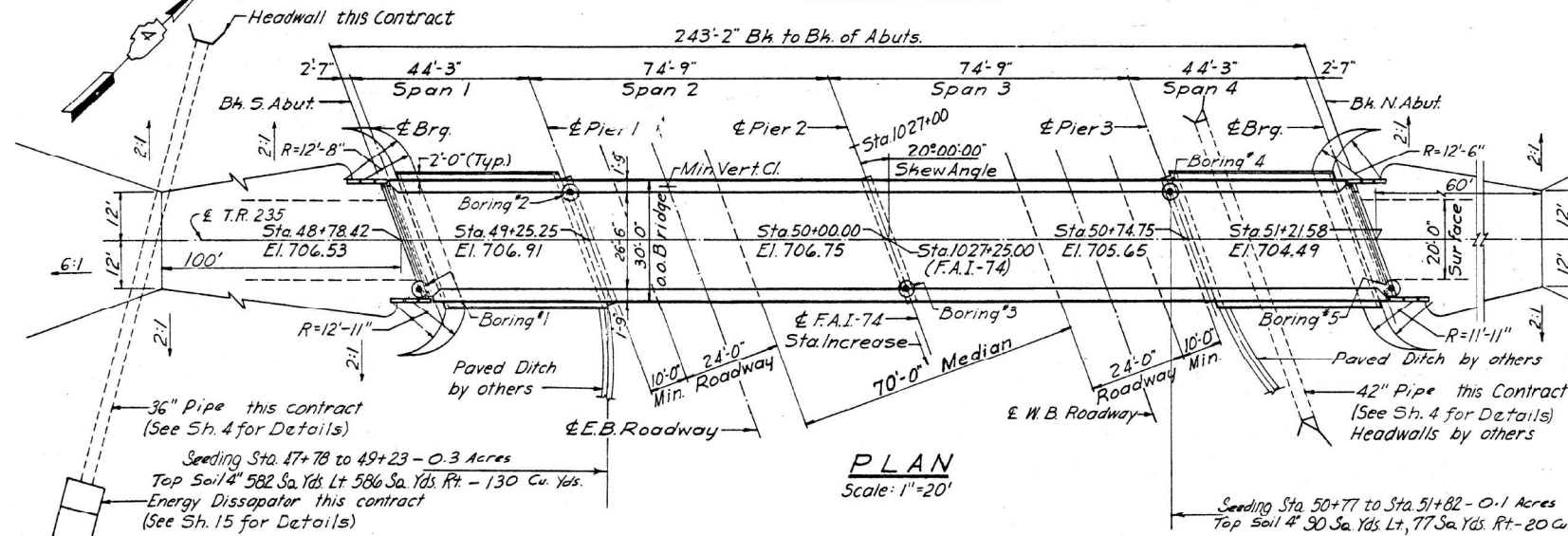
Bench Mark No. 32, Top of spike and bottle cap in fence post, West of proposed relocated TR 235, 166' Left of Station 1027+06, F.A.I.-74, Elev. +699.15.



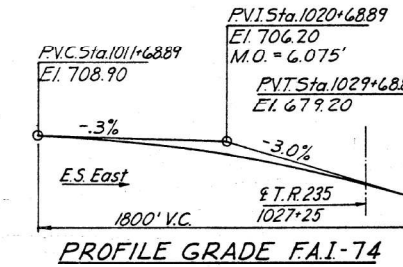
ELEVATION



PROFILE GRADE TR 235

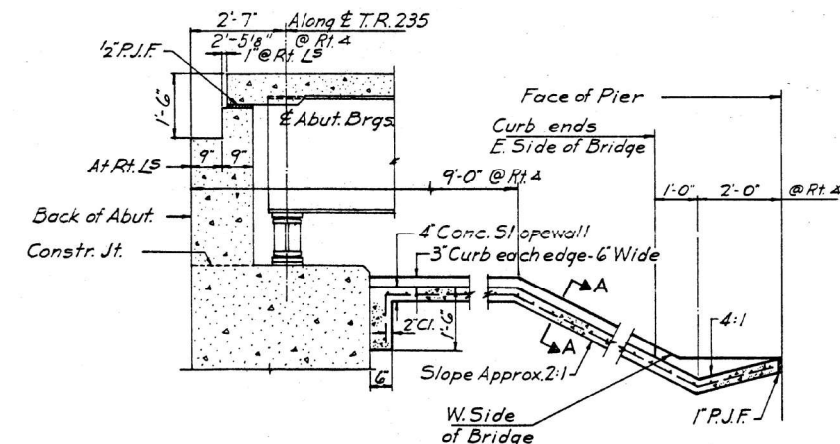


PLAN
Scale: 1"=20'



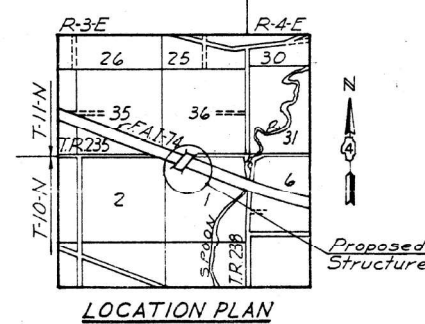
PROFILE GRADE F.A.I.-74

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/4 OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

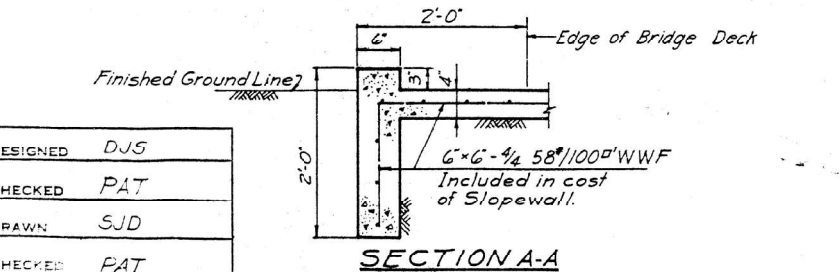


ABUTMENT SECTION

SLOPEWALL SECTION



LOCATION PLAN



SECTION A-A

STATION 1027+25
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. 48-29 HB.
F.A. PROJ. J-74-3 (18)
LOADING HS 15

NAME PLATE LETTERING
See Standard 2113-1
(For location see sheet 12)

DESIGN CRITERIA
A.A.S.H.O. 1961 and Interim Specs. 1962, 1963 and 1964
19 p.s.f. for future wearing surface.
Live Load: HS 15-44
Live Load + Impact deflection $\leq \frac{\text{Span}}{1000}$
Non-Composite Construction.

DESIGN STRESSES
 $f'_c = 3500$ p.s.i. Reinforced Concrete.
 $f'_s = 1400$ p.s.i. Substructure & Superstructure.
 $f'_s = 75$ p.s.i. Footings and Wingwalls.
 $f'_s = 20,000$ p.s.i. Reinforcement
 $f'_s = 20,000$ p.s.i. Structural Steel.
 $n = 10$

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
* Class A Excavation for Structures	Cu yds.	—	302	302
Class X Concrete	Cu yds.	214.6	197.1	411.7
Furnishing & Erecting Structural Steel	Lbs.	189,410	—	189,410
Aluminum Handrail	Lin. Ft.	480	—	480
Reinforcement Bars	Lbs.	59,470	18,870	69,340
Steel Piles (BBP36)	Lin. Ft.	—	443	443
Test Piles (steel BBP36)	Each	—	1	1
Name Plates	Each	—	2	2
Slope Wall - 4"	Sq. yds.	—	—	380
Protective Coat	Sq. yds.	915	40	955

* Class A Excavation for Structures includes excavation for Slope Wall. Excavation for portions of structures in the embankments shall not be classified.

GENERAL NOTES

CONCRETE:
Class X Concrete shall be used throughout.
Coarse aggregate which is to be used in parapets and end posts must be absolutely free of chert, flint, limonite, lignite and soft sandstone. Concrete in parapet and end posts shall be included in the quantity of Class X Concrete.
The concrete floor slab shall be poured in one continuous operation between construction joints and shall be finished in accordance with Article 51.19 of the Standard Specifications.
All reinforcement bars shall be lapped 20 diameters unless otherwise noted.

STRUCTURAL STEEL:
All Structural Steel shall conform to the A.S.T.M. Specifications for A-36.
Rivets $\frac{3}{4}$ " open holes $\frac{1}{16}$ " unless otherwise noted.
All holes for splices shall be subpunched $\frac{1}{16}$ " and reamed to proper size: $\frac{1}{16}$ " for $\frac{3}{4}$ " rivets, $\frac{1}{16}$ " for $\frac{1}{2}$ " rivets. High strength steel bolts may be substituted for rivets in accordance with Article 54.9 of the Standard Specifications.
All rockers, bolsters, bearing plates, pintles, lead plates, shim plates and anchor bolts shall be fabricated and erected in accordance with Article 51.15 of the Standard Specifications.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE DECK.

The exposed surfaces of the Expansion Guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor Studs shall not be painted. Expansion Guards are included in the quantity of Structural Steel. Estimated weight = 720.
Welding shall comply with Article 54.5(s) of the Standard Specifications.
All Structural Steel shall be inspected by the Illinois Division of Highways before painting.
Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of paint. See **Special Provisions for field paint.**
Anchor bolts shall be set before riveting diaphragms over supports.

SUBSTRUCTURE:
The Contractor shall drive one Steel Test Pile in a permanent location at the North abutment as directed by the Engineer before ordering the remainder of piles.
All steel H Piles shall be driven to refusal.

APPROVED
[Signature]
CONSULTING ENGINEERS

GENERAL PLAN AND ELEVATION
TR 235 OVER F.A.I. 74
STA. 1027+25

F.A.I. ROUTE 74 SECTION NO. 48-29HB PROJECT 1-74-3(18)59 KNOX COUNTY

Scale: AS SHOWN Date: JOHNSTON, WESTENHOFF AND NOVICK, INC. CONSULTING ENGINEERS

CHICAGO, ILL. E. ST. LOUIS, ILL.

Revised 7-31-67



DESIGNED	DJS	DESIGNED	BCS	REVISED	—
CHECKED	PAT	DRAWN	BCS	REVISED	—
DRAWN	SJD	CHECKED	TBP	REVISED	—
CHECKED	PAT	DATE	SEPT 2025	REVISED	—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 11 - STRUCTURE INFORMATION
SN 048-0050

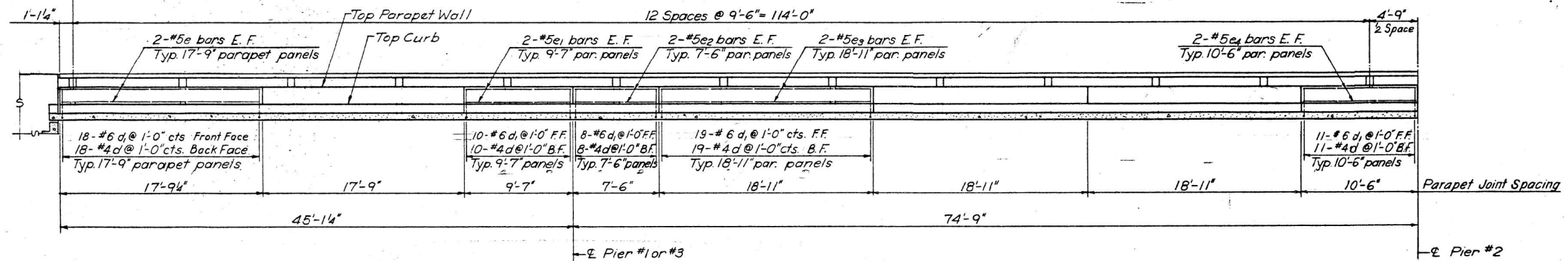
SCALE: N/A	SHEET 1	OF 5 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	132
CONTRACT NO. 68K62				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
 LOCATION 11 (TR 235 OVER I-74)
 SN 048-0050

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL74	48-29	KNOX	28	8
FED. ROAD DIST. NO. 4		ILLINOIS PROJECT	SHEET NO. 3 OF 3 SHEETS	

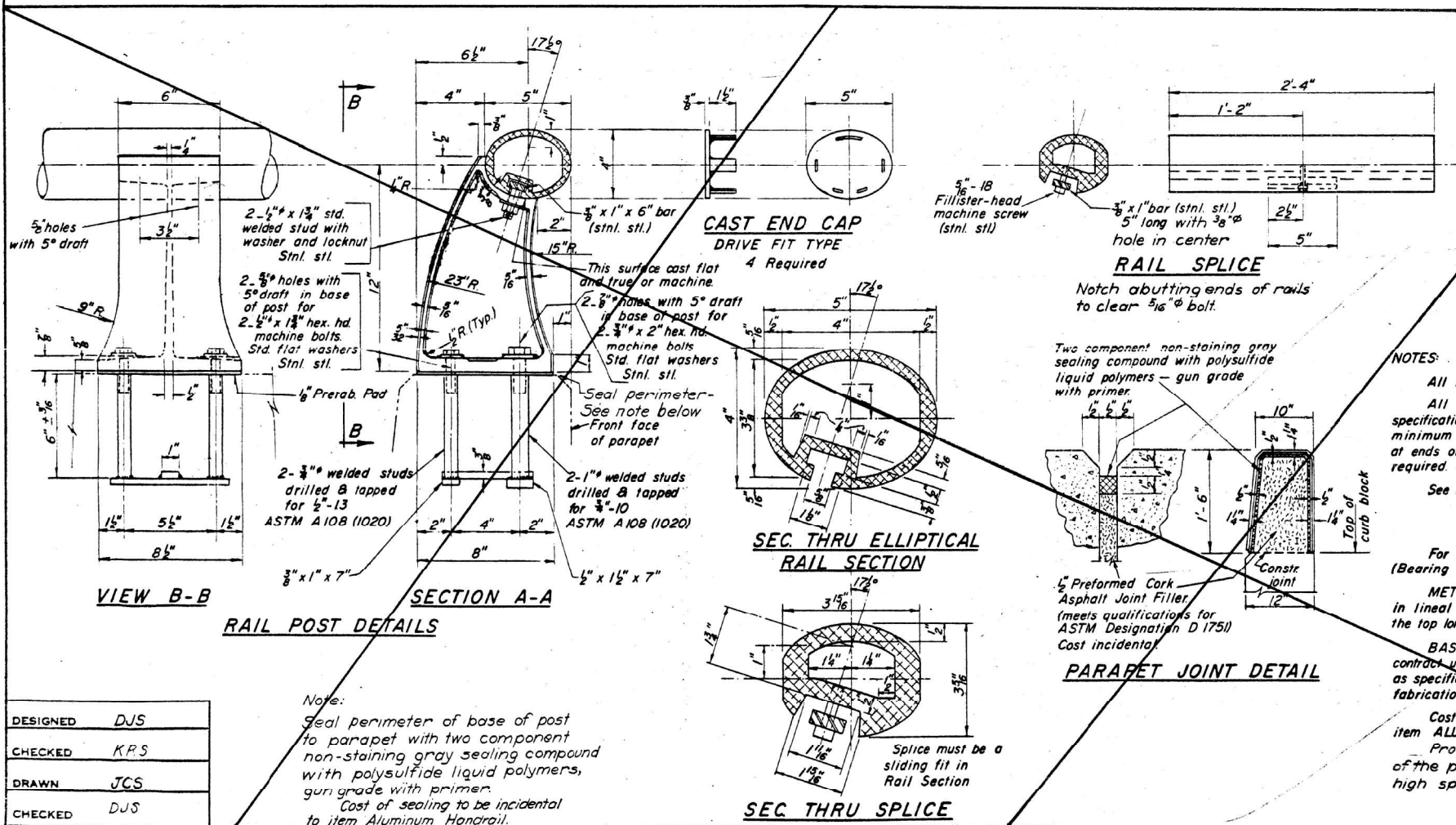
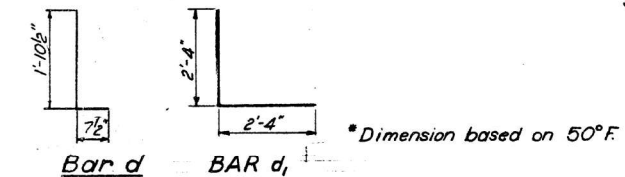


HANDRAIL AND PARAPET ELEVATION
 Dimensions are along inside face of parapet wall.

Note: For Details See Sheet 3A of 9.

Bar List Cont. from Sheet #2

Bar	No.	Size	Length	Shape
d	488	#4	2'-6"	
e	32	#5	17'-5"	
e1	16	#5	9'-3"	
e2	16	#5	7'-2"	
e3	48	#5	18'-7"	
e4	16	#5	10'-2"	
d1	488	#6	4'-8"	



NOTES:

- All Posts shall be normal to parapet.
- All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-235 alloy 6061-T6, or 6062-T6, and shall extend a minimum of 2 panel lengths (attached to minimum of 3 posts) except at ends or at open joints where a minimum of 1 panel length is required. All joints in railing must be spliced per detail.
- See Special Provisions for following Material Specifications:
 Cast Aluminum Alloy Bridge Post - Alloy 344-T4.
 Stainless Steel Welded Stud Bolts, Washers, and Locknuts
- For material composition of Prefabricated Pad, see Article 54.9(f), (Bearing and Anchorage), of the Standard Specifications.
- METHOD OF MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.
- BASIS OF PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.
- Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.
- Provide one 1/8" and two 1/4" aluminum shims for 25% of the posts. Rail element shall be parallel to grade-high spots shall be ground and low spots shined.

BILL OF MATERIAL

Item	Unit	Quantity
ALUMINUM HANDRAIL	Lin. Ft.	480

PARAPET AND HANDRAIL DETAILS

TR 235 OVER F.A.I. 74
 STA. 1027 + 25
 F.A.I. ROUTE 74
 SECTION NO. 48-29 HB
 PROJECT I-74-3)
 KNOX COUNTY

Scale: NONE Date:
JOHNSTON, WESTENHOFF AND NOVICK, INC.
 CONSULTING ENGINEERS
 CHICAGO, ILL. E. ST. LOUIS, ILL.

DESIGNED	DJS
CHECKED	KPS
DRAWN	JCS
CHECKED	DJS

USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000' / 1"	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/9/2025	CHECKED	- TBP	REVISED	-
		DATE	- SEPT 2025	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 11 - STRUCTURE INFORMATION
 SN 048-0050

SCALE: N/A SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	134
			CONTRACT NO. 68K62	
		ILLINOIS	FED. AID PROJECT	

MODEL: D:\dwg\11... TWM, INC. ENGINEERING GEOSPATIAL SERVICES
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 PLOT DATE: 9/9/2025

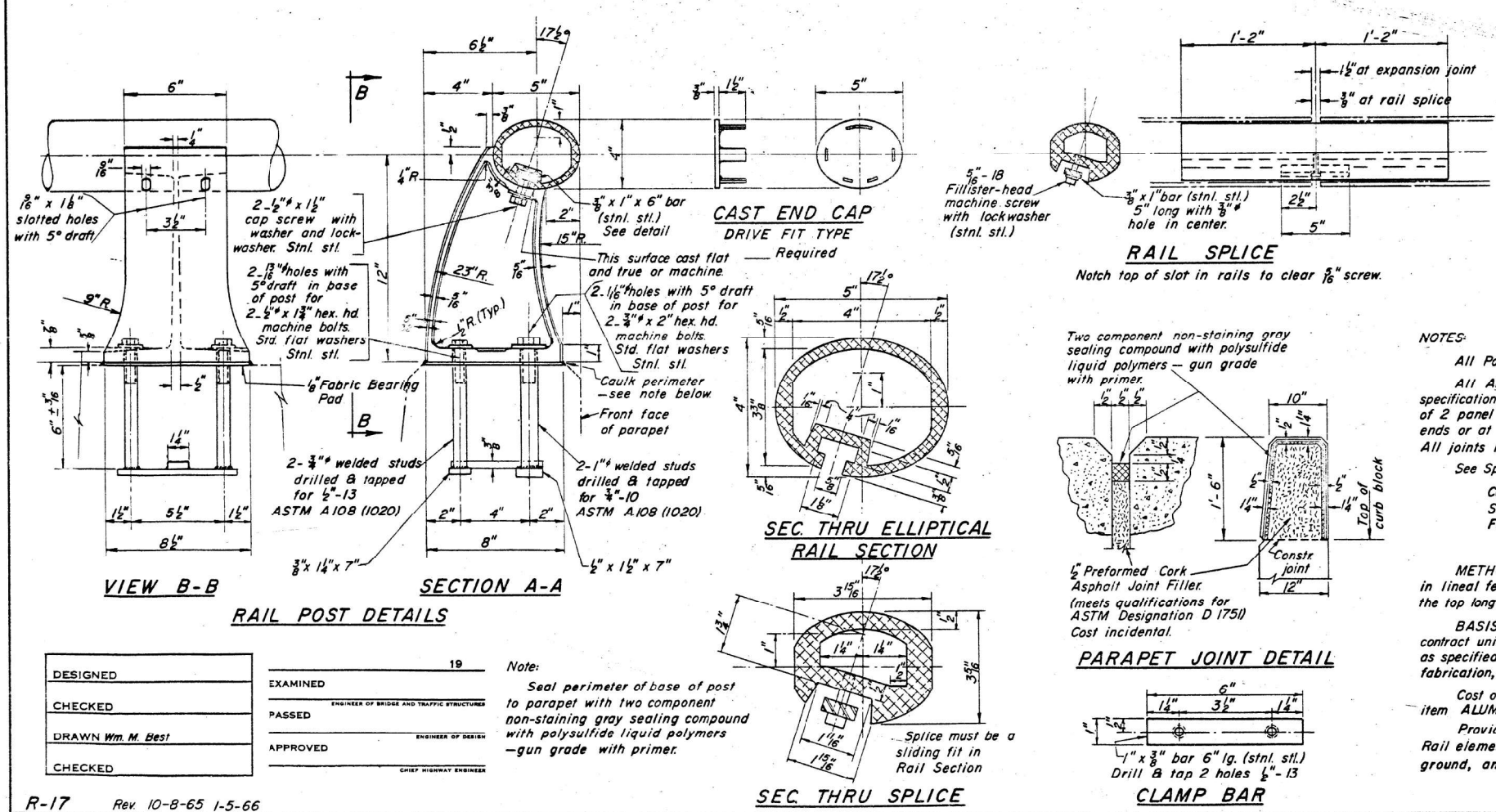
FOR INFORMATION ONLY
LOCATION 11 (TR 235 OVER I-74)
SN 048-0050

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I. A. I. 74	48-29	KNOX	28	84
F. A. I. 74	NB			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 34
9 SHEETS

Note: For Handrail and Parapet Elevation
See Sheet 3 of 9.



NOTES:
All Posts shall be normal to parapet.
All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-221 alloy 6061-T6 and shall extend a minimum of 2 panel lengths (attached to a minimum of 3 posts) except at ends or at open joints where a minimum of 1 panel length is required. All joints in railing must be spliced per detail.
See Special Provisions for following Material Specifications:
Cast Aluminum Alloy Bridge Post— Alloy A344-T4
Stainless Steel Bars, Cap Screws, Washers and Lockwashers.
Fabric Bearing Pad
METHOD OF MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.
BASIS OF PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.
Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.
Provide 1'-1/4" and 2'-1/8" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade— high spots shall be ground, and low spots shimmed.

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e		#5		
e1		#5		
e2		#5		
e3		#5		
e4		#5		

Class	Concrete	Cu. Yds.
Reinforcement	Bars	Lbs
Aluminum Handrail		Lin. Ft.

ALUMINUM HANDRAIL
TR 235 OVER F.A.I. 74
STA. 1027 + 25
F.A.I. RT. 74 PROJ. I-74-3(1)
SECTION 48-29HB
KNOX COUNTY

DESIGNED	19	Note:
CHECKED		Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers—gun grade with primer.
DRAWN	Wm. M. Best	
CHECKED		

R-17 Rev 10-8-65 1-5-66



USER NAME	= bstambaugh	DESIGNED	- BCS	REVISED	-
PLLOT SCALE	= 10.0000' / 1"	DRAWN	- BCS	REVISED	-
PLLOT DATE	= 9/9/2025	CHECKED	- TBP	REVISED	-
		DATE	- SEPT 2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 11 - STRUCTURE INFORMATION
SN 048-0050

SCALE: N/A SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D4 BRIDGE PAINTING 2026	VAR	136	135
			CONTRACT NO. 68K62	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY
LOCATION 11 (TR 235 OVER I-74)

SN 048-0050
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	48-29 H.B.	KNOX	28	10
FED. ROAD RES. NO. 4	ILLINOIS	PROJECT		

SHEET NO. 5
OF 9 SHEETS

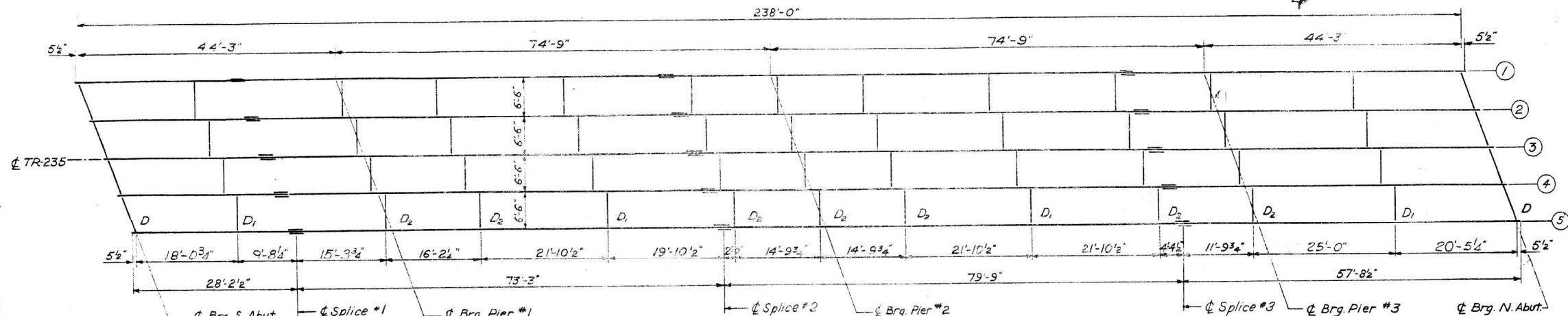


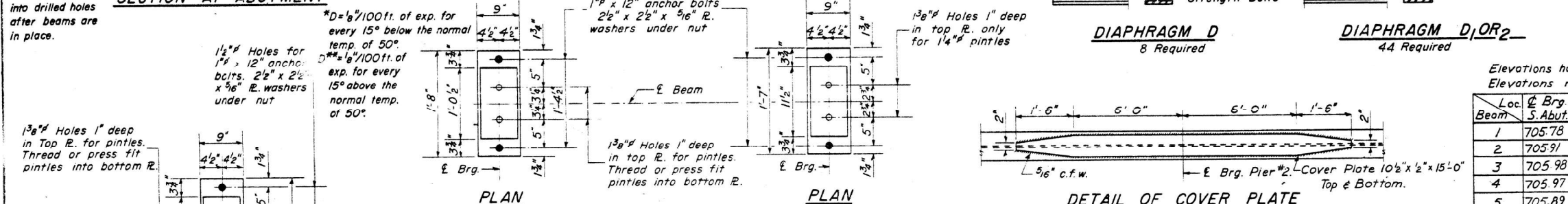
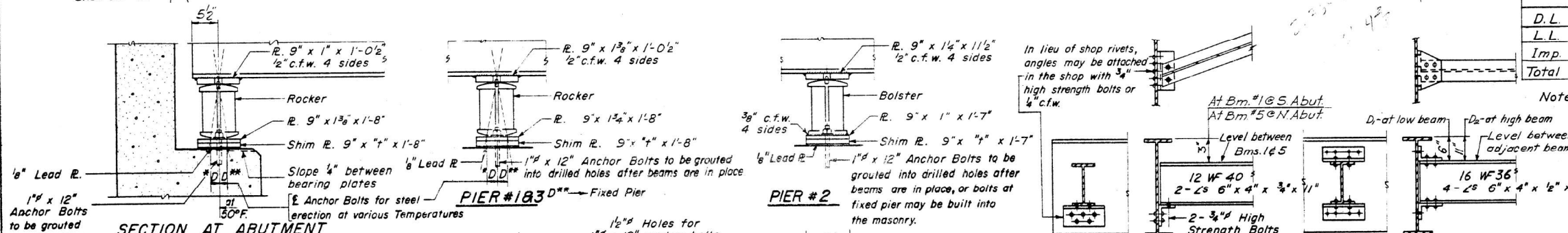
TABLE OF SHIM PLATES "t"

Beam	S. Abut.	Pier #1	Pier #2	Pier #3	N. Abut.
1	0	0	0	1/4"	0
2	0	5/8"	0	1/8"	3/8"
3	0	3/8"	1/8"	0	0
4	0	0	1/4"	0	0
5	0	0	0	0	0

**TABLE OF MOMENTS AND SHEARS
INTERIOR BEAMS**

LOAD	4 Sp.1	Pier #1	5 Sp.2	Pier #2	Abut.	Pier #1	Pier #2
D.L.	85	327	222	512	12.9	69.5	73.6
L.L.	194	236	281	310	27.5	35.5	38.7
Imp.	57	64	70	78	8.1	9.6	9.7
Total	336	627	573	900	48.5	114.6	122.0

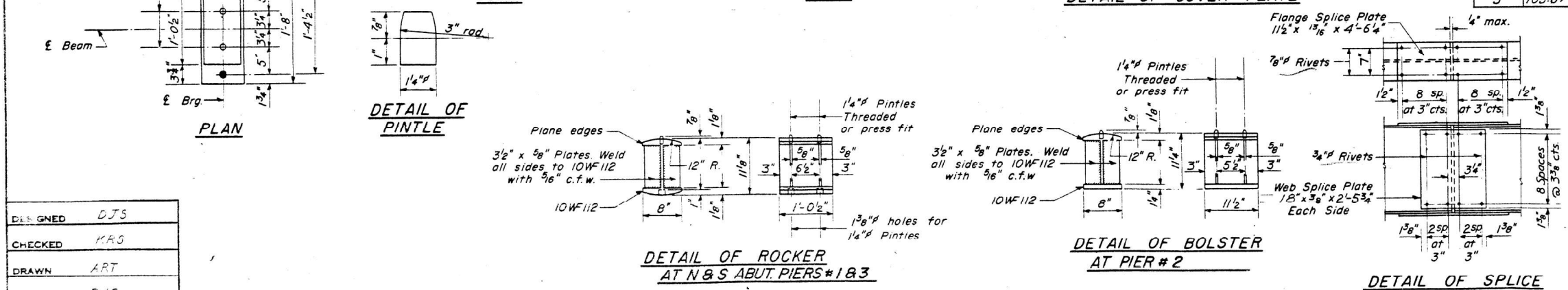
Note: Values are symmetrical about Pier #2.
D.L. = Dead Load.
L.L. = Live Load.
Imp. = Impact.



ELEVATION TOP OF WF

Elevations have not been corrected for dead load (steel or concrete) deflection. Elevations refer to top of beam flange, exclusive of cover plates.

Loc. Beam	ϕ Brg. S. Abut.	ϕ Splice #1	ϕ Pier #1	ϕ Splice #2	ϕ Pier #2	ϕ Splice #3	ϕ Pier #3	ϕ Brg. N. Abut.
1	705.78	706.00	706.03	706.13	705.93	705.23	704.95	703.98
2	705.91	706.11	706.14	706.22	706.01	705.29	705.00	704.01
3	705.98	706.17	706.18	706.24	706.03	705.28	704.99	703.98
4	705.97	706.15	706.16	706.19	705.97	705.20	704.90	703.88
5	705.89	706.06	706.07	706.08	705.85	705.05	704.75	703.71



STEEL FRAMING AND BEARING DETAILS
TR 235 OVER F.A.I. 74
STA. 1027+25

F.A.I. ROUTE 74
SECTION NO. 48-29 HB

Scale: NONE

PROJECT I-74-3()
KNOX COUNTY

Date:
JOHNSTON, WESTENHOFF AND NOVICK, INC.
CONSULTING ENGINEERS

CHICAGO, ILL. E. ST. LOUIS, ILL.

DESIGNED	DJS
CHECKED	KAS
DRAWN	ART
CHECKED	DJS