

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	1
		ILLINOIS	CONTRACT NO. 70H14	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4 - 5

PROPOSED HIGHWAY PLANS

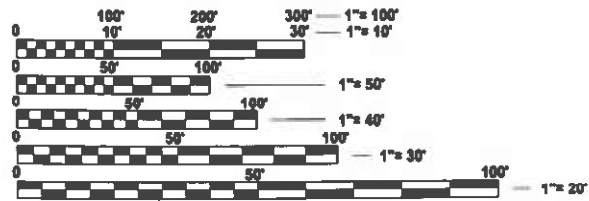
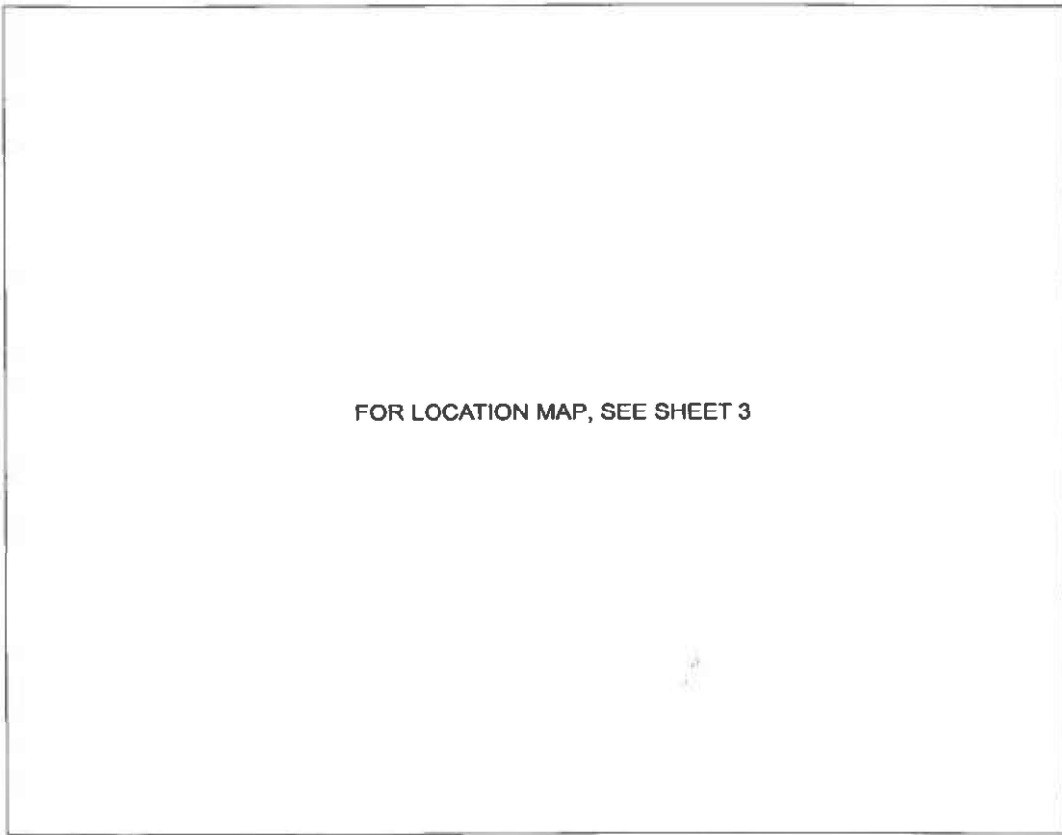
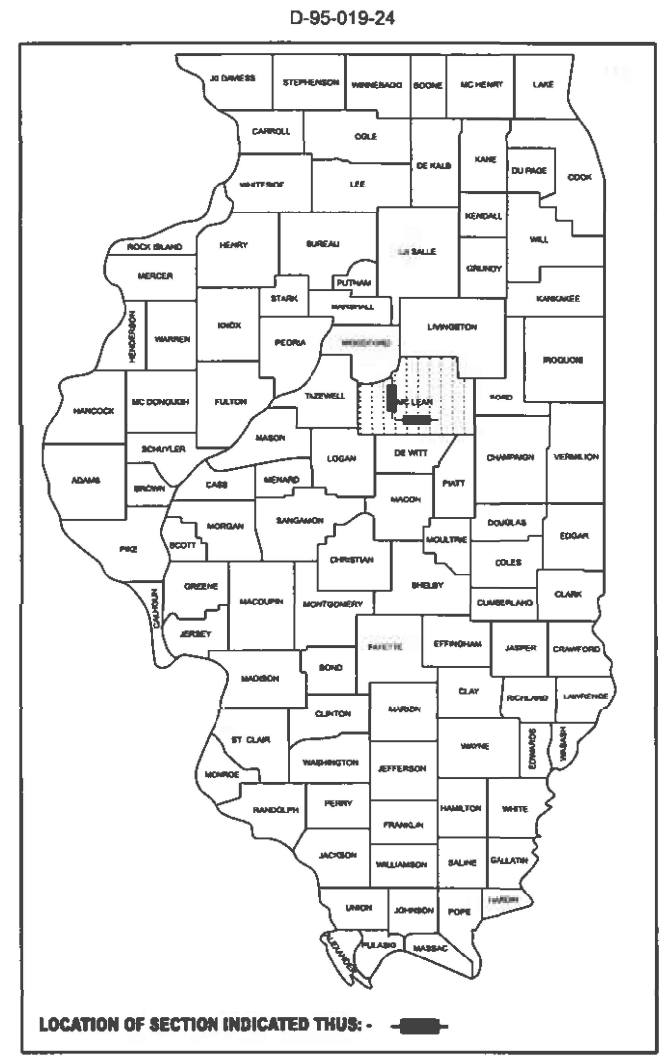
VARIOUS ROUTES SECTION D5 BRIDGE PAINTING 2024-2 PROJECT HBFP-TPZ7(217) BRIDGE PAINTING MCLEAN COUNTY

C-95-039-24

VARIOUS LOCATIONS IN MCLEAN COUNTY

CURRENT TRAFFIC DATA		
<u>LOC. #1</u> I-39 = 13,500 Northtown Rd = 850 (2023)	<u>LOC. #2</u> I-39 = 13,500 Northtown Rd = 850 (2023)	<u>LOC. #3</u> US 51 = 9,650 US 136 = 6,550 (2023)
<u>LOC. #4</u> US 51 = 9,650 US 136 = 6,550 (2023)	<u>LOC. #5</u> 700 (2022)	<u>LOC. #6</u> 1,000 (2023)

LOC. #1: S.N. 057-0216 - I-39 SB over NORTHTOWN RD (TR 201B)
 LOC. #2: S.N. 057-0217 - I-39 NB over NORTHTOWN RD (TR 201B)
 LOC. #3: S.N. 057-0198 - US 51 (FAP 322) SB over US 136 @ Heyworth
 LOC. #4: S.N. 057-0199 - US 51 (FAP 322) NB over US 136 @ Heyworth
 LOC. #5: S.N. 057-0200 - FAS 1478 (Leroy Spur) over W Fork Salt Creek
 LOC. #6: S.N. 057-0218 - US 136 (FAP 709) over Salt Creek



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

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

PROJECT ENGINEER: JASON STULTS
SQUAD LEADER: GREG EAGLIN
DESIGNER: JASON LEE
PHONE NUMBER: (217)465-4181

CONTRACT NO. 70H14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1/17 2024
Kendal A. Garnett son
REGIONAL ENGINEER

March 22, 2024 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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2	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
3	LOCATION MAP LOCATIONS - MCLEAN COUNTY
4-5	SUMMARY OF QUANTITIES
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9-14	LOCATION #1 & #2 STRUCTURE DETAILS
15-21	LOCATION #3 & #4 STRUCTURE DETAILS
22-26	LOCATION #5 STRUCTURE DETAILS
27-32	LOCATION #6 STRUCTURE DETAILS
33-35	WIDTH RESTRICTION SIGNING DETAIL

HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR

G.N.-506 (SPL.)
ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED GRAY (MUNSELL COLOR STANDARD - 5B 7/1). IN SOME CASES THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS SHALL BE PAINTED WITH EITHER INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8) OR REDDISH BROWN (MUNSELL COLOR STANDARD 2.5YR 3/4) AS SPECIFIED UNDER THE DESCRIPTION FOR EACH STRUCTURE.

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

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

THE SSPC-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.

2 YEAR PAINT WARRANTY REQUIRED FOR ALL STRUCTURES

COMMITMENTS
THERE ARE NO COMMITMENTS ON THIS PROJECTS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS
& GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	2
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

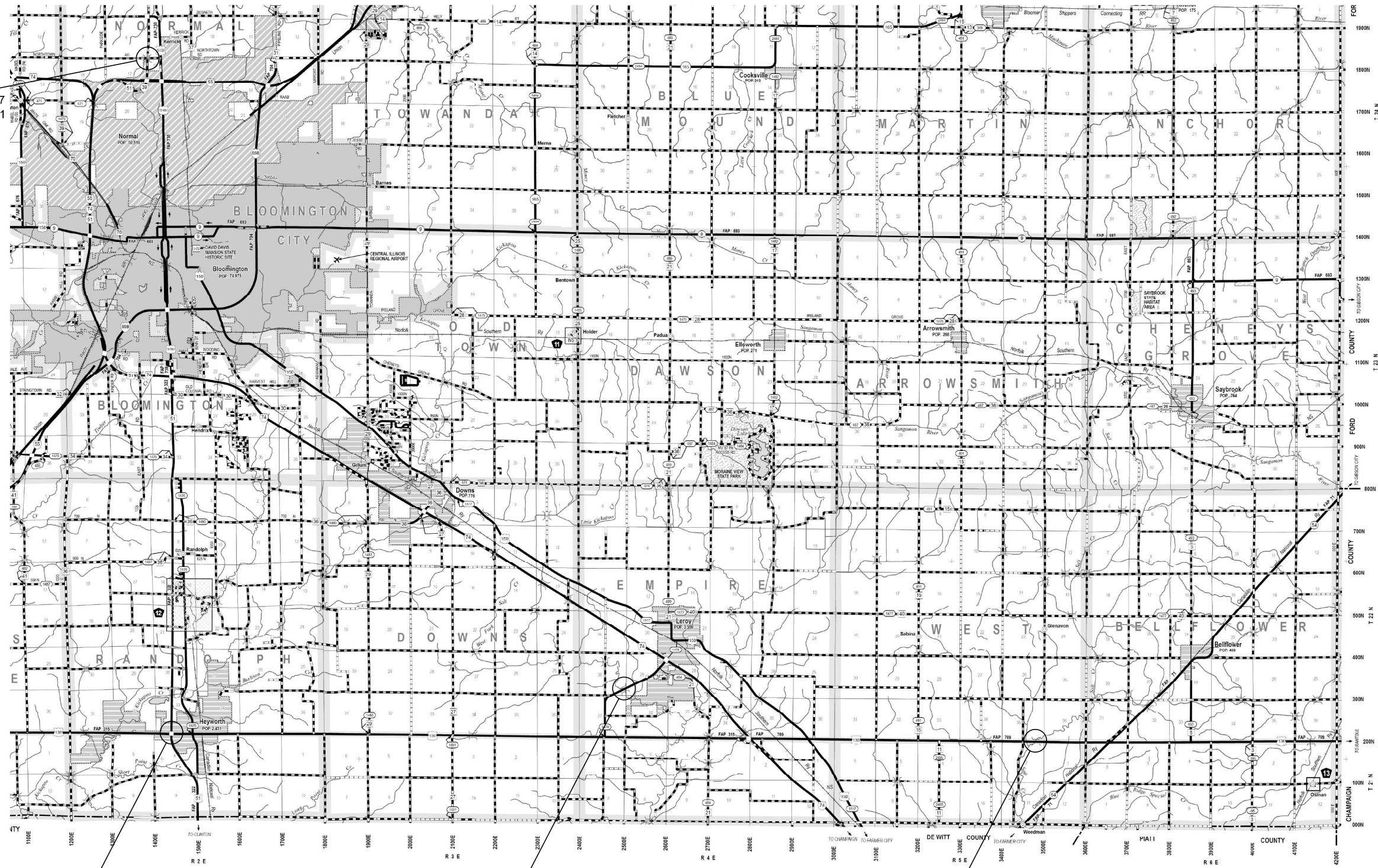
MCLEAN COUNTY



TOWNSHIPS

NORMAL
RANDOLPH
EMPIRE
WEST

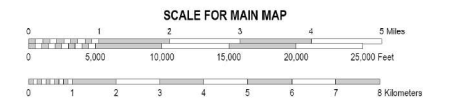
LOCATION 1 & 2
S.N. 057-0216 SB / STA. 124+99.57
S.N. 057-0217 NB / STA. 125+01.61



LOCATION 3 & 4
S.N. 057-0198 SB / STA. 267+60.00
S.N. 057-0199 NB / STA. 267+60.00

LOCATION 5
S.N. 057-0200 / STA. 86+51.00

LOCATION 6
S.N. 057-0218 / STA. 1067+44.50



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE LOCATION MAP
MCLEAN COUNTY

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D5 BRIDGE PAINTING 2024-2		MCLEAN	35	3
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6
	FAI 39 (I-39)	FAI 39 (I-39)	FAP 322 (US 51)	FAP 322 (US 51)	FAS 1478	FAP 709 (US 136)
	S.N. 057-0216	S.N. 057-0217	S.N. 057-0198	S.N. 057-0199	S.N. 057-0200	S.N. 057-0218
COUNTY:	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN
	URBAN	URBAN	RURAL	RURAL	RURAL	RURAL
FUNDING BREAKOUT:	90% FED	90% FED	80% FED	80% FED	80% FED	80% FED
	10% STATE	10% STATE	20% STATE	20% STATE	20% STATE	20% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047	0047	0047	0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
67100100	MOBILIZATION	L SUM	1.0	0.17	0.17	0.17	0.17	0.16	0.16
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	0.2	0.2	0.2	0.2	0.1	0.1
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1.0	1.0					
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1.0		1.0				
X5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1.0			1.0			
X5060604	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1.0				1.0		
X5060605	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1.0					1.0	
X5060606	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1.0						1.0
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1.0	1.0					
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1.0		1.0				
* DENOTES SPECIALTY ITEM									

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	4
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5	LOC. #6
	FAI 39 (I-39)	FAI 39 (I-39)	FAP 322 (US 51)	FAP 322 (US 51)	FAS 1478	FAP 709 (US 136)
	S.N. 057-0216	S.N. 057-0217	S.N. 057-0198	S.N. 057-0199	S.N. 057-0200	S.N. 057-0218
COUNTY:	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN
	URBAN	URBAN	RURAL	RURAL	RURAL	RURAL
FUNDING BREAKOUT:	90% FED	90% FED	80% FED	80% FED	80% FED	80% FED
	10% STATE	10% STATE	20% STATE	20% STATE	20% STATE	20% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047	0047	0047	0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1.0			1.0			
X5067504	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 4	L SUM	1.0				1.0		
X5067505	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 5	L SUM	1.0					1.0	
X5067506	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 6	L SUM	1.0						1.0
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1.0	1.0					
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1.0		1.0				
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1.0			1.0			
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1.0				1.0		
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1.0					1.0	
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1.0						1.0
* DENOTES SPECIALTY ITEM									

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PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	5
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

LOCATION #1

DESCRIPTION: I-39 SB over NORTHTOWN RD (TR 201B) - 0.53 mi N of I-55
 COUNTY: MCLEAN
 ROUTE: FAI 39
 MARKED ROUTE: I-39
 SECTION: 57-2HB-2
 STRUCTURE NO.: 057-0216
 TYPE OF STRUCTURE: 1 SPAN STEEL PLATE GIRDER
 9 BEAM LINES - LENGTH Varies 105.97' to 106.43'

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

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC-SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT NORTH ABUTMENT

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

LOCATION #2

DESCRIPTION: I-39 NB over NORTHTOWN RD (TR 201B) - 0.53 mi N of I-55
 COUNTY: MCLEAN
 ROUTE: FAI 39
 MARKED ROUTE: I-39
 SECTION: 57-2HB-2
 STRUCTURE NO.: 057-0217
 TYPE OF STRUCTURE: 1 SPAN STEEL PLATE GIRDER
 6 BEAM LINES - LENGTH = 106.0'

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

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC-SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT NORTH ABUTMENT

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

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PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DESCRIPTION OF WORK
 LOCATIONS #1 & #2**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	6
			CONTRACT NO. 70H14	
ILLINOIS FED. AID PROJECT				

LOCATION #3

DESCRIPTION: US 51 (FAP 322) SB over US 136 @ HEYWORTH
 COUNTY: MCLEAN
 ROUTE: FAP 322
 MARKED ROUTE: US 51
 SECTION: 57-1HB
 STRUCTURE NO.: 057-0198
 TYPE OF STRUCTURE: 1 SPAN STEEL PLATE GIRDER
 6 BEAM LINES - LENGTH = 125.71'

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

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC-SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT NORTH ABUTMENT

NOTE: NEW EMSEAL EXPANSION JOINTS HAVE BEEN INSTALLED AT THE ABUTMENTS. THE CELLULAR FOAM MATERIAL ON THE UNDERSIDE OF THE JOINT COULD BE DAMAGED FROM THE CONTRACTORS BLASTING OPERATIONS WHEN BLASTING BEAM ENDS AND THE BACKSIDE OF THE DIAPHRAGMS. THE CONTRACTOR SHALL TAKE CARE TO PROTECT AND AVOID DAMAGE TO THE UNDERSIDE OF THE JOINT FOAM MATERIAL.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

LOCATION #4

DESCRIPTION: US 51 (FAP 322) NB over US 136 @ HEYWORTH
 COUNTY: MCLEAN
 ROUTE: FAP 322
 MARKED ROUTE: US 51
 SECTION: 57-1HB
 STRUCTURE NO.: 057-0199
 TYPE OF STRUCTURE: 1 SPAN STEEL PLATE GIRDER
 6 BEAM LINES - LENGTH = 125.71'

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

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC-SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT NORTH ABUTMENT

NOTE: NEW EMSEAL EXPANSION JOINTS HAVE BEEN INSTALLED AT THE ABUTMENTS. THE CELLULAR FOAM MATERIAL ON THE UNDERSIDE OF THE JOINT COULD BE DAMAGED FROM THE CONTRACTORS BLASTING OPERATIONS WHEN BLASTING BEAM ENDS AND THE BACKSIDE OF THE DIAPHRAGMS. THE CONTRACTOR SHALL TAKE CARE TO PROTECT AND AVOID DAMAGE TO THE UNDERSIDE OF THE JOINT FOAM MATERIAL.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

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PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DESCRIPTION OF WORK
 LOCATIONS #3 & #4**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	7
			CONTRACT NO. 70H14	
ILLINOIS FED. AID PROJECT				

LOCATION #5

DESCRIPTION: FAS 1478 (Leroy Spur) over W FORK SALT CREEK - 1.3 mi S of I-74
 COUNTY: MCLEAN
 ROUTE: FAS 1478 (Leroy Spur)
 MARKED ROUTE: 2450 E
 SECTION: 102BR-1
 STRUCTURE NO.: 057-0200
 TYPE OF STRUCTURE: 3 SPAN STEEL
 5 BEAM LINES - CTR-CTR BENTS = 144.0'

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

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS WEATHERING STEEL AND AN EXISTING OZ/E/U PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT EAST & WEST ABUTMENTS

NOTE: NEW EMSEAL EXPANSION JOINTS HAVE BEEN INSTALLED AT THE ABUTMENTS. THE CELLULAR FOAM MATERIAL ON THE UNDERSIDE OF THE JOINT COULD BE DAMAGED FROM THE CONTRACTORS BLASTING OPERATIONS WHEN BLASTING BEAM ENDS AND THE BACKSIDE OF THE DIAPHRAGMS. THE CONTRACTOR SHALL TAKE CARE TO PROTECT AND AVOID DAMAGE TO THE UNDERSIDE OF THE JOINT FOAM MATERIAL.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

LOCATION #6

DESCRIPTION: US 136 (FAP 709) over SALT CREEK - 5.5 mile E of US 150
 COUNTY: MCLEAN
 ROUTE: FAP 709
 MARKED ROUTE: US 136
 SECTION: 103BR
 STRUCTURE NO.: 057-0218
 TYPE OF STRUCTURE: 3 SPAN CONTINUOUS STEEL
 5 BEAM LINES - BK-BK ABUTS = 115.0'

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

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR ALL EXTERIOR SURFACES AND THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC-SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

NOTE: ELASTOMERIC BEARINGS AT EAST & WEST ABUTMENTS

NOTE: NEW EMSEAL EXPANSION JOINTS HAVE BEEN INSTALLED AT THE ABUTMENTS. THE CELLULAR FOAM MATERIAL ON THE UNDERSIDE OF THE JOINT COULD BE DAMAGED FROM THE CONTRACTORS BLASTING OPERATIONS WHEN BLASTING BEAM ENDS AND THE BACKSIDE OF THE DIAPHRAGMS. THE CONTRACTOR SHALL TAKE CARE TO PROTECT AND AVOID DAMAGE TO THE UNDERSIDE OF THE JOINT FOAM MATERIAL.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

MODEL: Location 5 n 6 (Sheet)
 FILE NAME: c:\p\work\wv\101\14-Sub-Descriptions.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DESCRIPTION OF WORK
 LOCATIONS #5 & #6**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	8
			CONTRACT NO. 70H14	
			ILLINOIS FED. AID PROJECT	

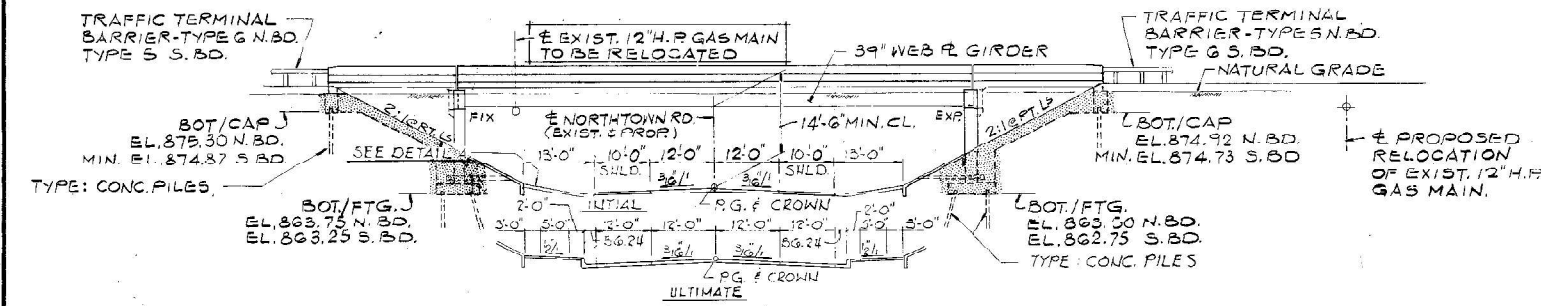
AS-BUILT PLANS FOR S.N. 057-0216 / S.N. 057-0217

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	57-2HB-2	MCLEAN	182	71
STA. TO STA.		PROJECT		
F.H.W.A. REG. NO. 4 ILLINOIS		PROJECT		

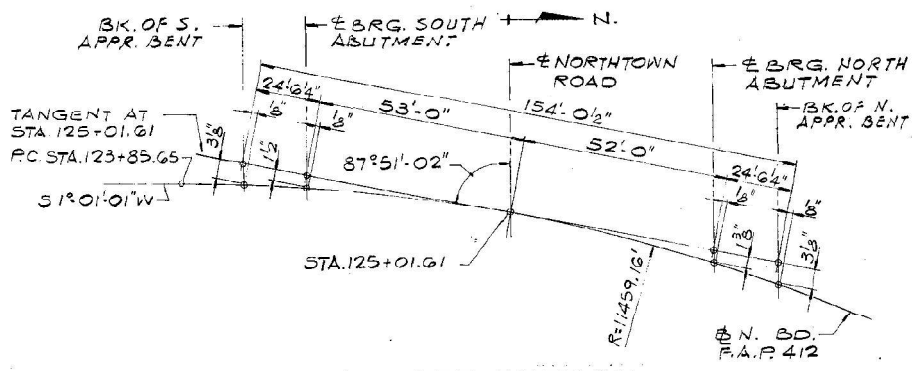
SHEET 1 OF 26

T. & M. # 573 R.R. SPIKE IN POWER POLE ON SOUTH SIDE OF NORTHTOWN RD. 1750' ± WEST OF US-51. EL. 878.75 NO EXISTING STRUCTURE. NORTHTOWN RD. TO BE CLOSED DURING CONSTRUCTION. TRAFFIC DETOURED TO TR 181.



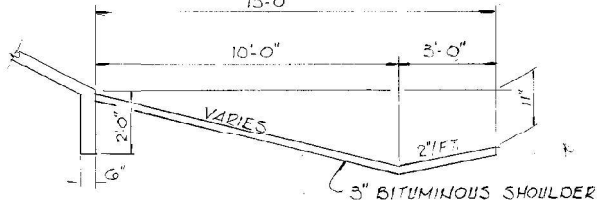
ELEVATION

F.A.P. 412 PROFILE (AT N. B.D. & S. B.D. BASELINE)

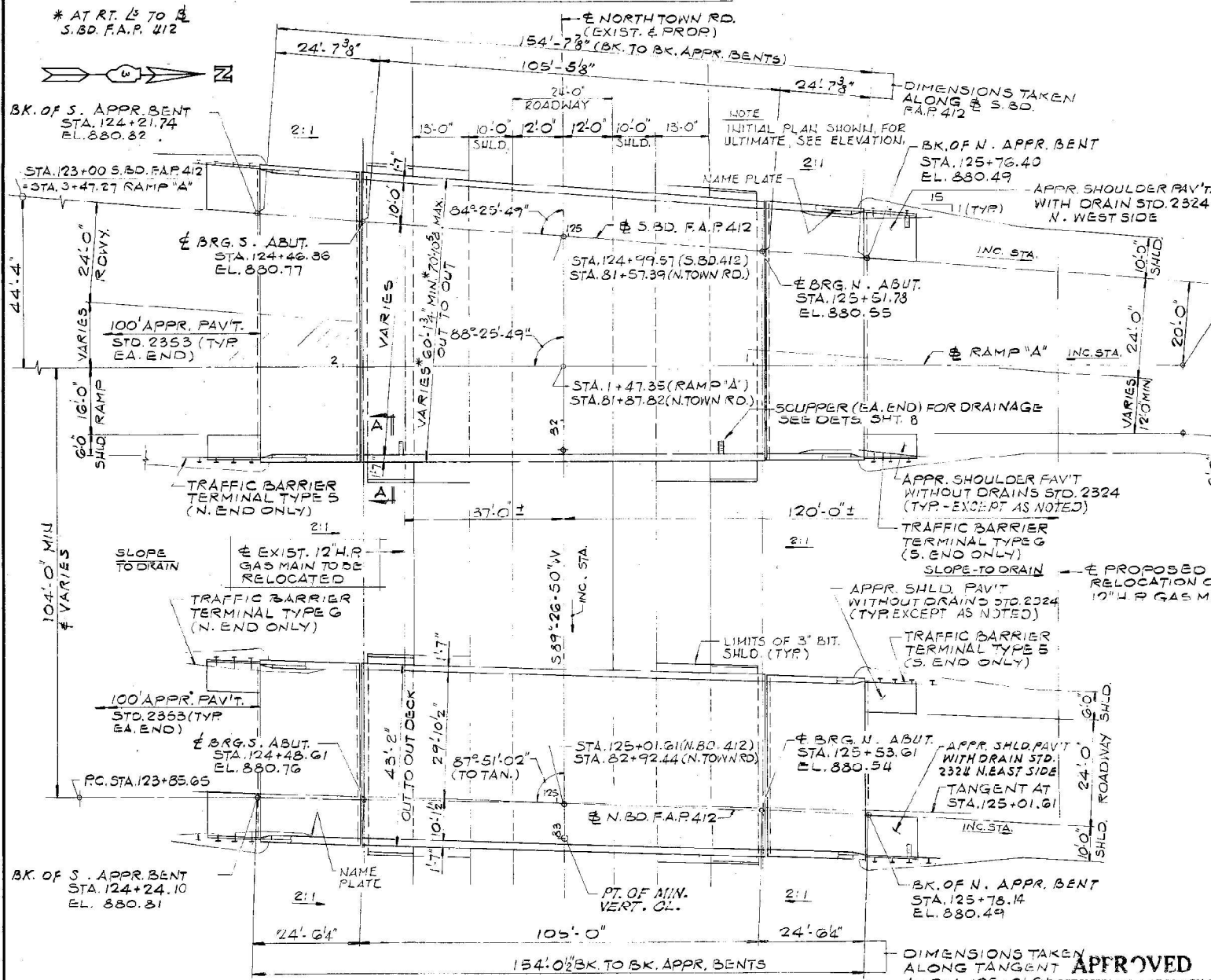


OFFSET SKETCH (NORTH BOUND F.A.P. 412)

NORTHTOWN RD. PROFILE (AT CENTERLINE)



DETAIL "A" INITIAL PHASE

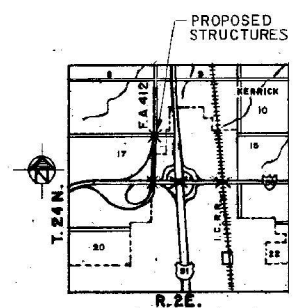


PLAN

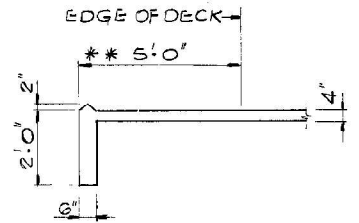
HORIZONTAL CURVE DATA (N.B.D. F.A.P. 412)

P.I. STA.	= 127+85.82
Δ	= 4°-00'-00"
R.O.D.	= 0°-30'-00"
L	= 11459.16
E	= 800.00
T	= 6.98
P.C. STA.	= 123+85.65
P.T. STA.	= 131+85.65
S.E. TRANSITION: 0.016 1/FT.	
BEGIN STA. 122+15.65	
END STA. 124+70.65	

NOTE: BRIDGE APPROACH PAVEMENT, BRIDGE APPROACH SHOULDER PAVEMENT AND GUARDRAIL SHOWN FOR INFORMATION ONLY



LOCATION PLAN



SECTION A-A

** PROVIDE 2'-0" FOR N.B.D. F.A.P. 412 & WEST SIDE OF S.B.D. F.A.P. 412

DESIGN SPECIFICATIONS

AASHTO (1983) AND 1984, 1985 & 1986 INTERIMS WITH EXCEPTIONS OR MODIFICATIONS AS INDICATED.

LOADING HS20-44

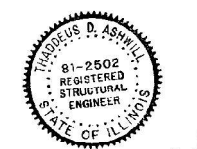
ALLOW 25 PSF FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

F _c	= 3,500 PSI
F _y	= 60,000 PSI
F _y	= 50,000 PSI (STRUCTURAL STEEL, AASHTO M 223)
F _y	= 36,000 PSI (STRUCTURAL STEEL, AASHTO M 183)

GENERAL PLAN AND ELEVATION

F.A.P. ROUTE 412
OVER NORTHTOWN RD.
F.A.P. ROUTE 412-SEC. 57-2HB-2
MCLEAN COUNTY
STATION 124+99.57 (S.B.)
125+01.61 (N.B.)
STRUCTURE NUMBER 057-0216 (S.B.)
057-0217 (N.B.)



APPROVED
John W. Clark
Registered Structural Engineer

alfred benesch & company
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 2203

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED -	REVISED -
PLOT DATE = 1/5/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #1 & #2
S.N. 057-0216 (SB) & S.N. 057-0217 (NB)

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	9
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

MODEL: Loc12 sheet_1 [Sheet]
FILE NAME: c:\pwworking\albenesch\project\057-0216-0217\14-SHA-AS_Built-LOC12.dgn

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412-57-2HB-2	MCLEAN	ILLINOIS	182	75
STA.	TO STA.		PROJECT	
F.H.W.A. REG. NO. 4	ILLINOIS		PROJECT	

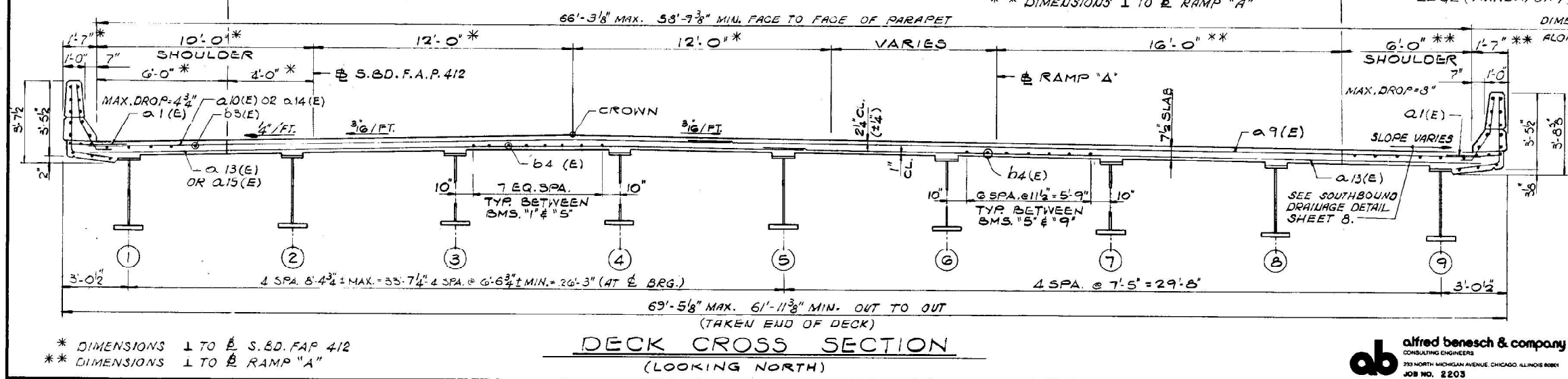
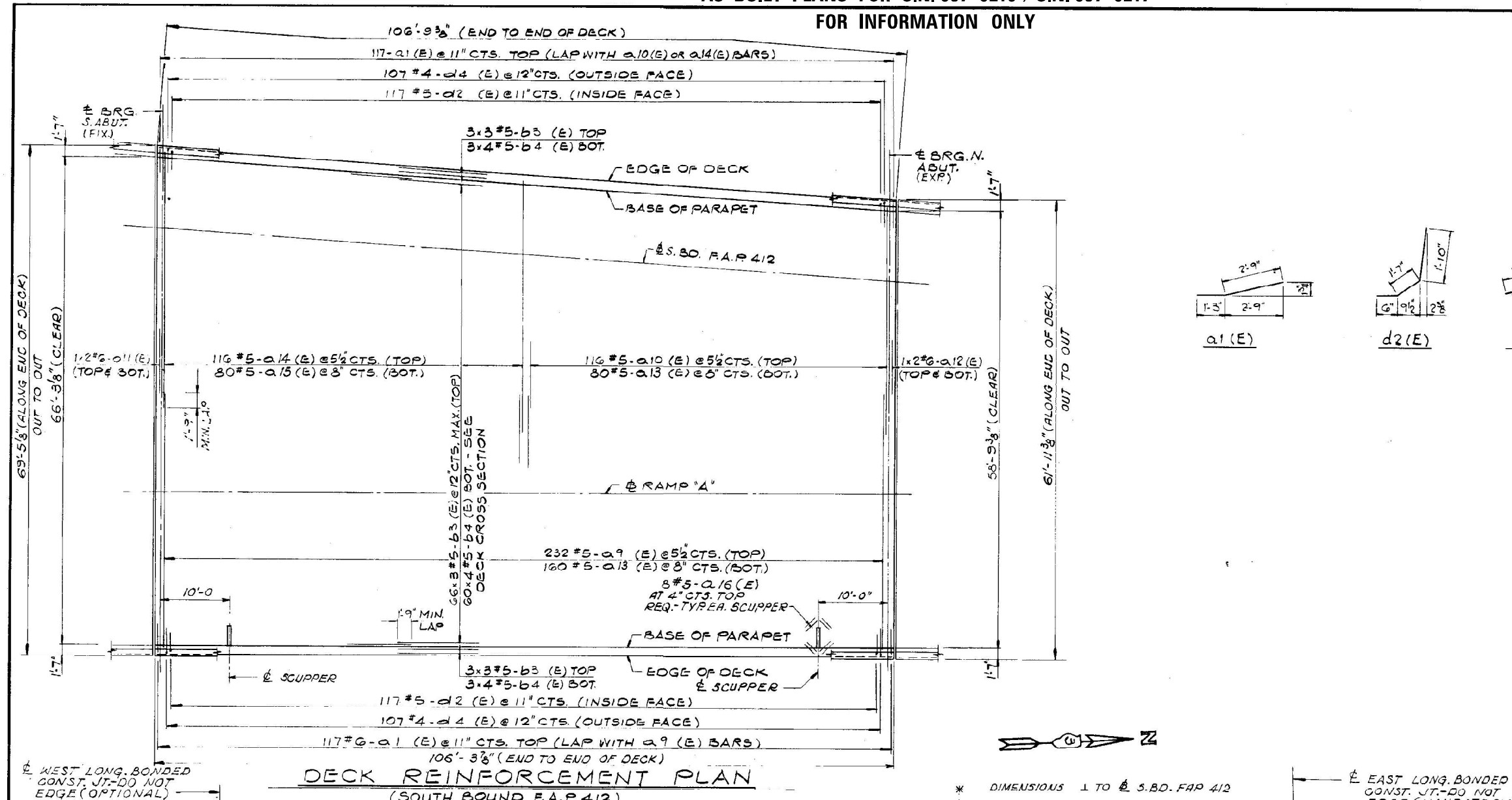
SHEET 5 OF 26

BILL OF MATERIAL

MARK	NO	SIZE	LENGTH	SHAPE
a1 (E)	234	6	4'-0"	—
a9 (E)	232	5	36'-6"	—
a10 (E)	116	5	29'-6"	—
a11 (E)	4	6	34'-9"	—
a12 (E)	4	6	31'-0"	—
a13 (E)	240	5	33'-0"	—
a14 (E)	116	5	32'-6"	—
a15 (E)	80	5	37'-0"	—
a16 (E)	16	5	2'-0"	—
b3 (E)	216	5	37'-0"	—
b4 (E)	280	5	28'-0"	—
b5 (E)	12	8	38'-0"	—
d2 (E)	234	5	3'-11"	—
d4 (E)	214	4	5'-2"	—
e1 (E)	72	4	17'-4"	—
CLASS X CONCRETE SUPERSTRUCTURE			CY. YDS.	189.
REINFORCEMENT BARS			LBS	0.
REINFORCEMENT BARS (EPOXY COATED)			LBS	49780

BAR LAP
#5 BAR - 1'-9"

NOTES:
- ALL BAR DIMENSIONS ARE OUT TO OUT.
- BARS DESIGNATED (E) SHALL BE EPOXY COATED.



DECK REINFORCEMENT PLAN
SOUTH BOUND MAIN SPAN
F.A.P. ROUTE 412 OVER
NORTHTOWN RD.
F.A.P. ROUTE 412 - SEC. 57-2HB-2
MCLEAN COUNTY
STATION 124+99.57 (S.B.)
125+01.61 (N.B.)
STRUCTURE NUMBER 057-0216 (S.B.)
057-0217 (N.B.)

alfred benesch & company
CONSULTING ENGINEERS
703 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60611
JOB NO. 2203

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 1/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

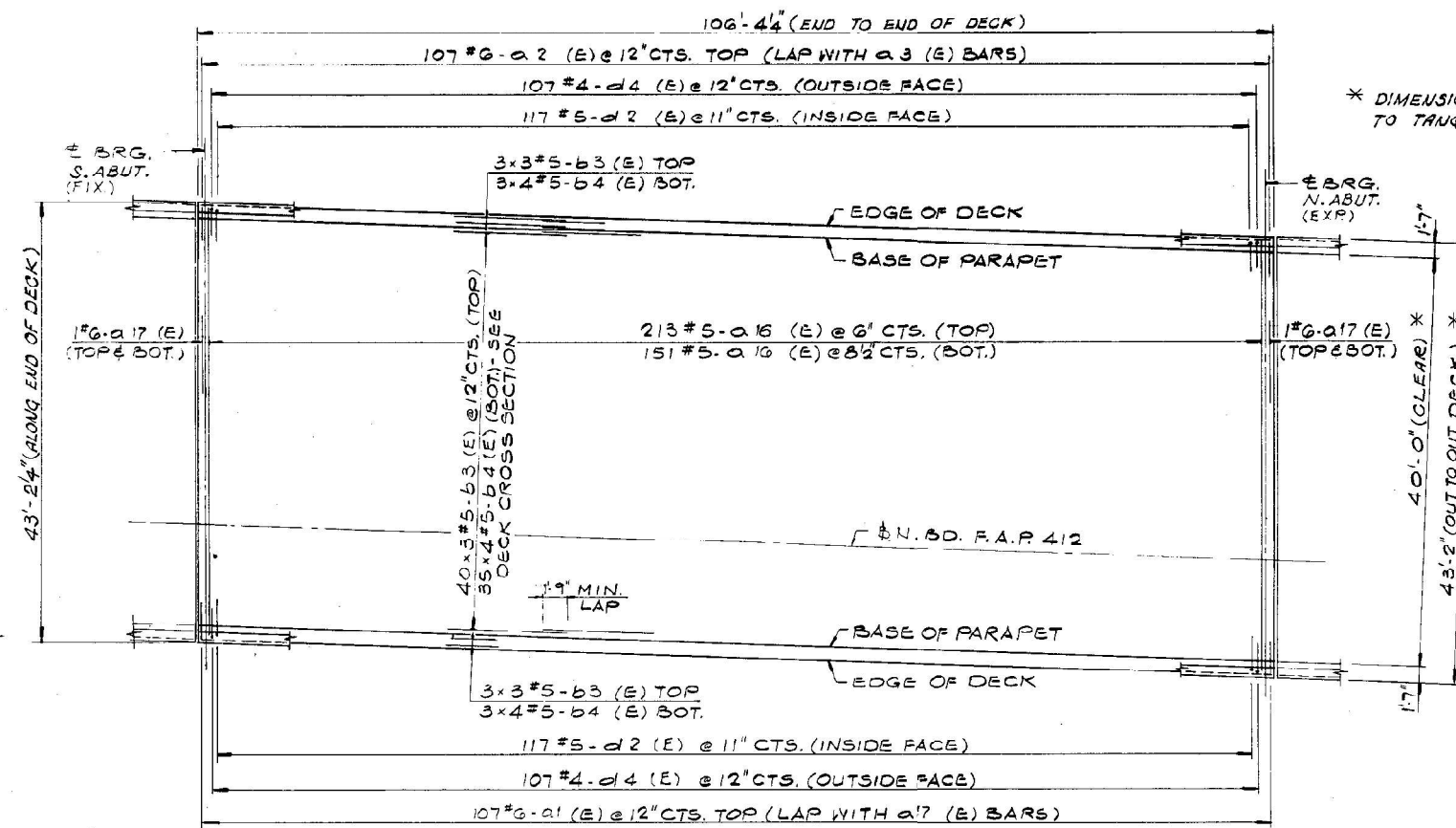
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #1 & #2
S.N. 057-0216 (SB) & S.N. 057-0217 (NB)
SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

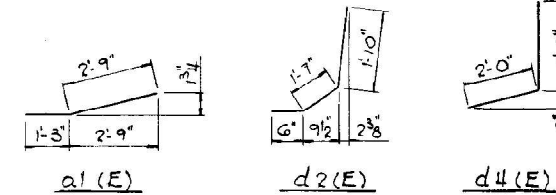
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	10
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

MODEL: Loc112 sheet 2 (Sheet)
FILE NAME: c:\p\work\wv\stevens.wood\illinois\p09416731D570H14-SNB-AS_Built-Loc1&2.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	57-2HB-2	MCLEAN	182	76
STA.	TO STA.			
F.H.W.A. REG. NO. 4	ILLINOIS	PROJECT	SHEET 6 OF 26	



* DIMENSIONS NORMAL TO TANGENT.

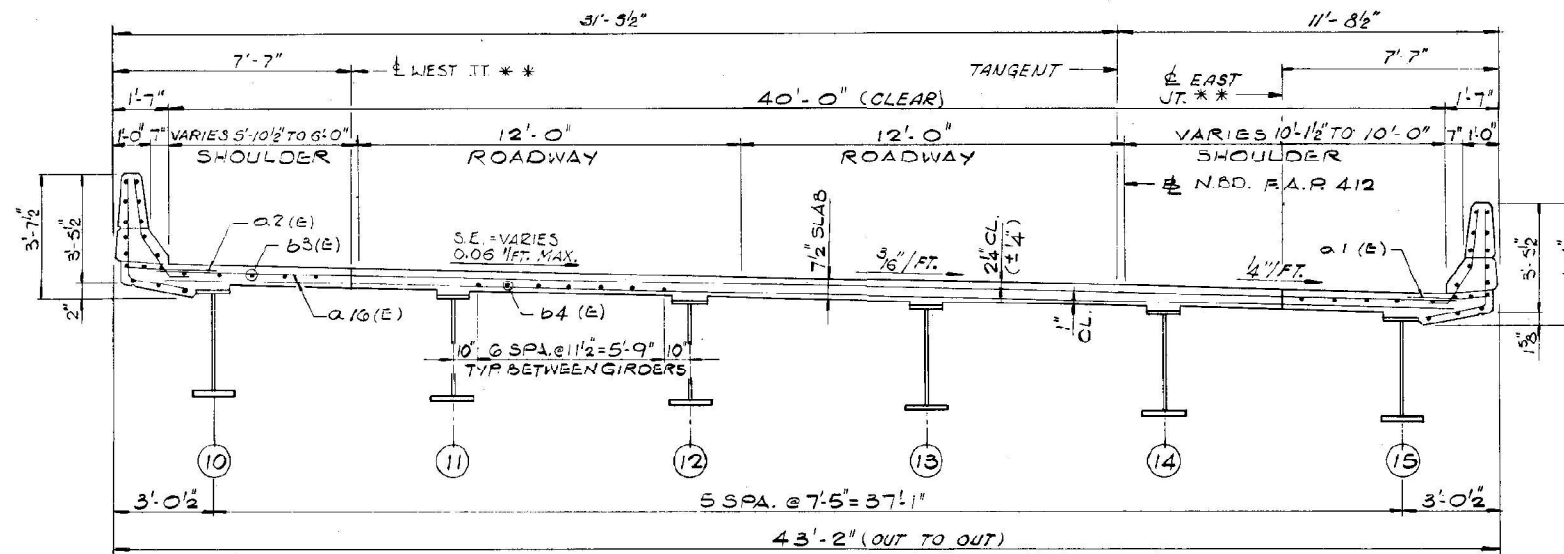


BILL OF MATERIAL

MARK	NO	SIZE	LENGTH	SHAPE
a1 (E)	107	6	4-0	—
a2 (E)	107	6	4-0	—
a16 (E)	364	6	40-9	—
a17 (E)	4	6	40-9	—
b3 (E)	138	5	37-0	—
b4 (E)	180	5	29-0	—
b5 (E)	12	6	38-0	—
d2 (E)	234	5	3-11	L
d4 (E)	214	4	5-2	L
e1 (E)	72	4	17-4	—

CLASS X CONCRETE SUPERSTRUCTURE	CY. YDS.	131.
REINFORCEMENT BARS	LBS	0.
REINFORCEMENT BARS (EPOXY COATED)	LBS	31330.

DECK REINFORCEMENT PLAN



DECK CROSS SECTION (LOOKING NORTH)

NOTES:
 - ALL BAR DIMENSIONS ARE OUT TO OUT.
 - BARS DESIGNATED (E) SHALL BE EPOXY COATED.

DECK REINFORCEMENT PLAN

NORTH BOUND MAIN SPAN

F.A.P. ROUTE 412 OVER
 NORTHTOWN RD.
 F.A.P. ROUTE 412-SEC. 57-2HB-2
 MCLEAN COUNTY
 STATION 124-99.57
 125-01.61
 STRUCTURE NUMBER 057-0216 (S.B.)
 057-0217 (N.B.)



* * BONDED LONGITUDINAL CONSTRUCTION JOINT DO NOT EDGE

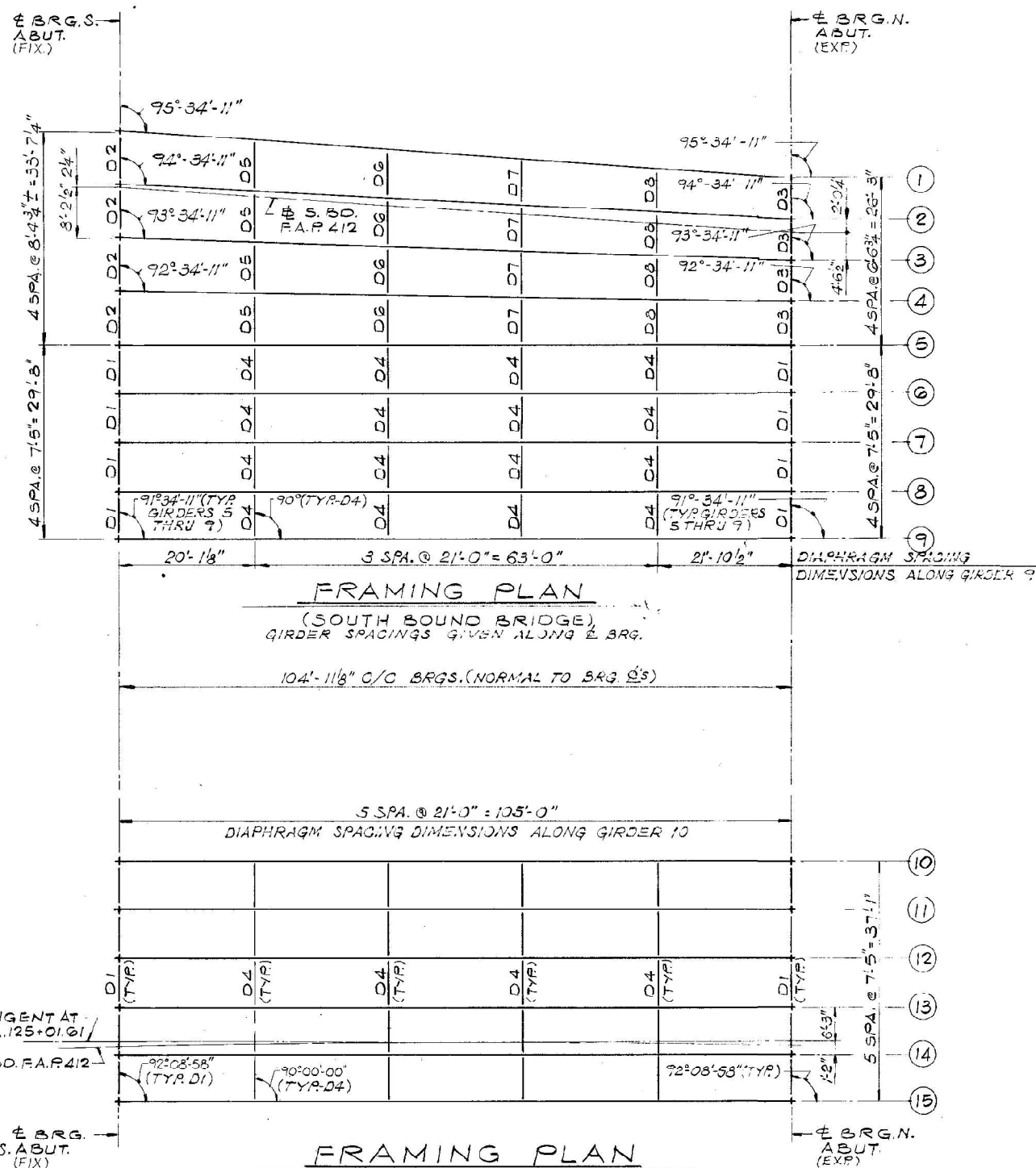
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #1 & #2
 S.N. 057-0216 (SB) & S.N. 057-0217 (NB)

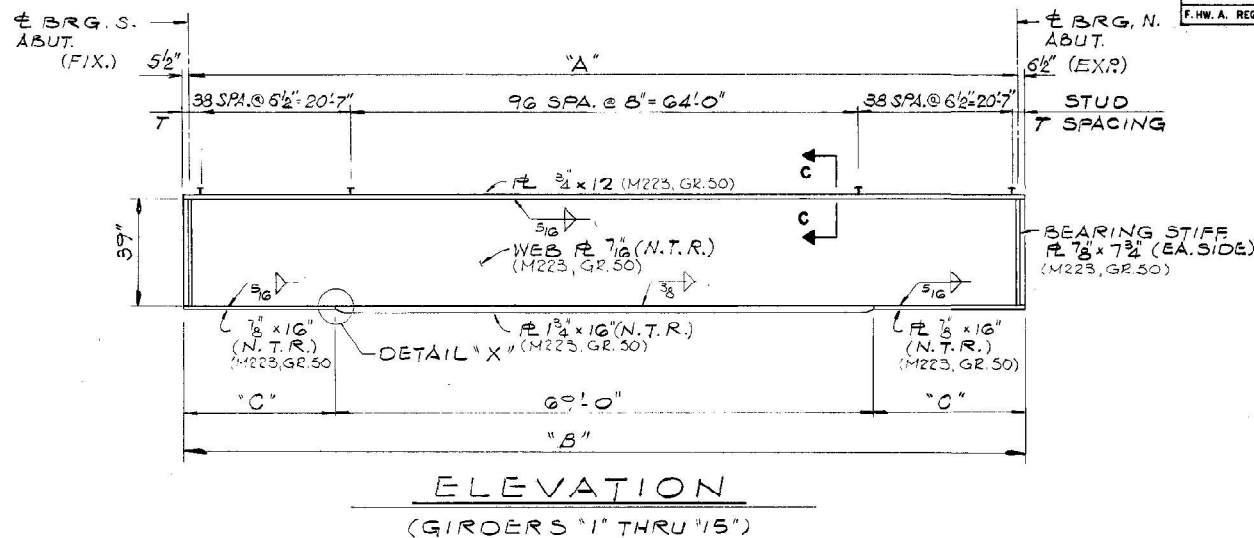
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	11
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 1/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

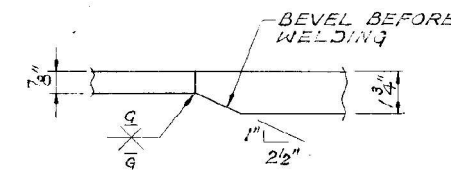
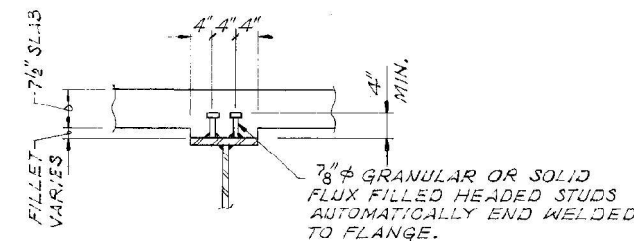
SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.



FOR INFORMATION ONLY



GIRDER	"A"	"B"	"C"	"T"
1	105'-5 3/8"	106'-5 8"	18'-8 7/16"	7 7/16"
2	105'-3 8"	106'-3 8"	18'-7 7/16"	6 7/16"
3	105'-1 3/8"	106'-1 3/8"	18'-6 13/16"	5 13/16"
4	105'-0 3/8"	106'-0 3/8"	18'-8 3/8"	5 1/8"
5, 6, 7, 8, 9	104'-11 3/8"	105'-11 3/8"	18'-5 13/16"	4 13/16"
10, 11, 12, 13, 14, 15	105'-0"	106'-0"	18'-6"	5"



NOTES:

M.T.R. DENOTES PLATES TO WHICH NOTCH TOUGHNESS REQUIREMENTS ARE APPLICABLE.

FRAMING - PLAN GIRDER ELEVATION

F.A.P. ROUTE 412 OVER
 NORTHTOWN RD.
 F.A.P. ROUTE 412-SEC. 57-2HB-2
 MCLEAN COUNTY
 STATION 124+99.57 (S.B.)
 125+01.61 (N.B.)
 STRUCTURE NUMBER 057-0216 (S.B.)
 057-0217 (N.B.)

alfred benesch & company
 CONSULTING ENGINEERS
 795 NORTH MICHIGAN AVENUE # CHICAGO, ILLINOIS 60610
 JOB NO. 2203

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 1/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

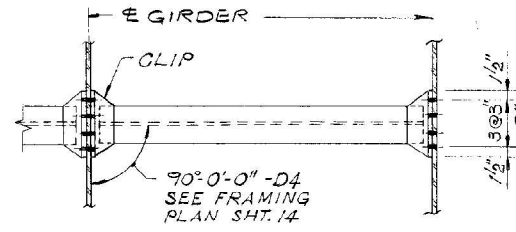
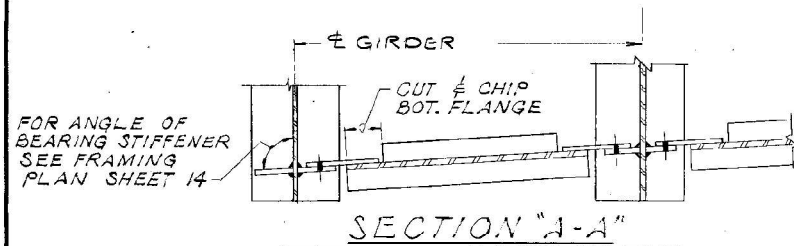
AS BUILT PLANS LOCATION #1 & #2
 S.N. 057-0216 (SB) & S.N. 057-0217 (NB)

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

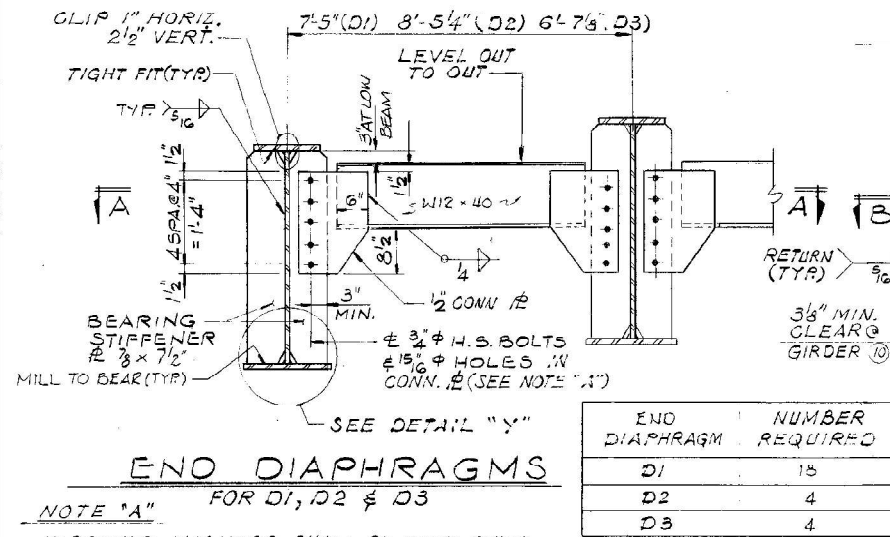
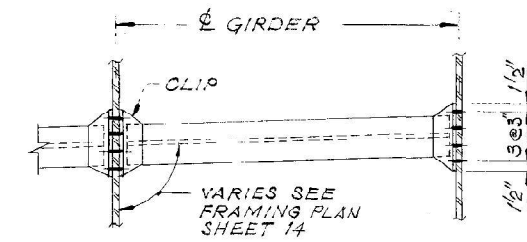
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VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	12
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	57-2HB-2	MCLEAN	182	85
STA.	TO STA.		PROJECT	
F.H.W. A. REG. NO. 4	ILLINOIS			

SHEET 16 OF 26

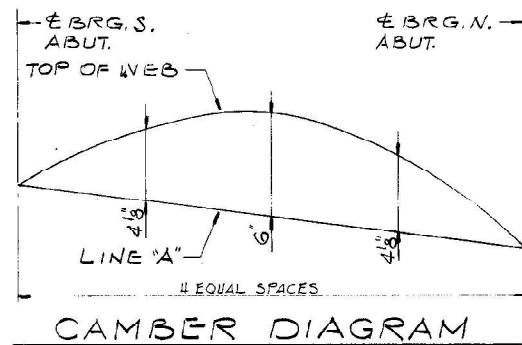
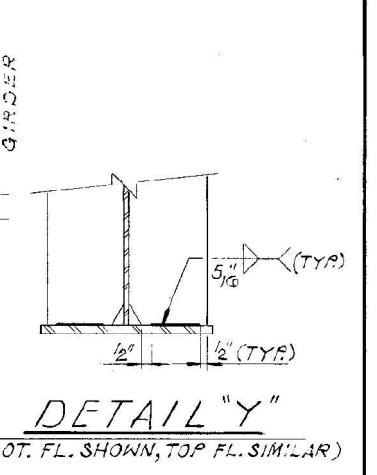
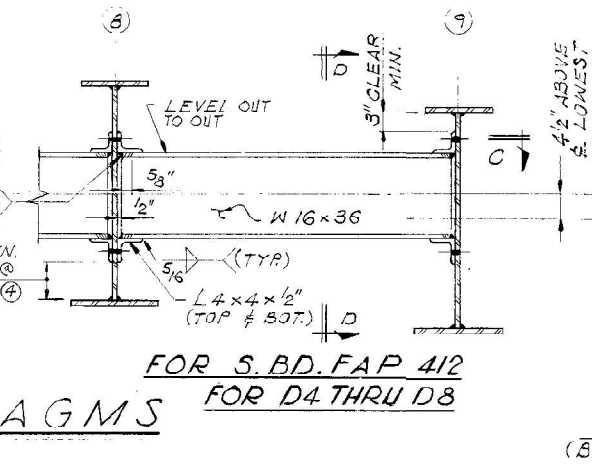
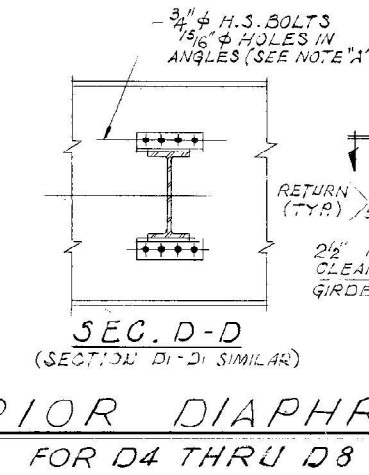
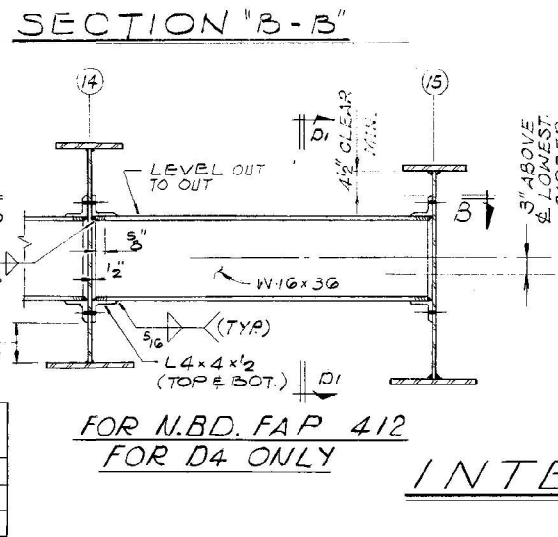


INTERIOR DIAPHRAGM	NUMBER REQUIRED
D4	36
D5	4
D6	4
D7	4
D8	4



END DIAPHRAGM	NUMBER REQUIRED
D1	15
D2	4
D3	4

NOTE "A"
HARDENED WASHERS SHALL BE USED OVER 15/16" Ø HOLES IN DIAPHRAGM ANGLES AND CONNECTION PLATES.



NOTES:
CAMBER SHOWN INCLUDES ALLOWANCES FOR VERTICAL CURVE AND DEAD LOAD DEFLECTION DUE TO DECK CONCRETE AND STEEL WEIGHT ONLY.

GIRDER MOMENT TABLE		0.5 SPAN
I _B	(IN ⁴)	14512
I _C	(IN ⁴)	45385
S _B	(IN ³)	1036
S _C	(IN ³)	1415
M _D	(K)	0.908
M _S	(K)	12.51
M _L	(K)	0.303
M _{IMP}	(K)	4.18
S ₃ (M _L +I)	(K)	10.90
M ₂	(K)	2.36
S ₃ (M _L +I)	(K)	22.10
M ₂	(K)	50.43
f _S (NON-COMP)	(K.S.I.)	14.3
f _S (COMP)	(K.S.I.)	3.3
f _S (TOTAL)	(K.S.I.)	18.7
f _S (OVERLOAD)	(K.S.I.)	36.7
f _S (TOTAL)	(K.S.I.)	47.7
VR	(K)	37.8

I_B AND S_B ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING f_S (DEADLOAD).
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 M_L + IMPACT SHEAR RANGE IN SPAN.
f_S (TOTAL) IS THE SUM OF THE STRESSES DUE TO 1.3 [M_D + M_S + 1/3 (M_L + I)] = M₂ (APPLIED MOMENT).
f_S (OVERLOAD) IS THE SUM OF THE STRESSES DUE TO M_D + M_S + 1/3 (M_L + I).

TOP OF WEB ELEVATIONS

GIRDER LOCATION	SOUTH BOUND								
	1	2	3	4	5	6	7	8	9
EBRG.S.ABUT.	879.812	879.780	880.117	880.101	879.969	879.852	879.785	879.619	879.583
EBRG.N.ABUT.	879.589	879.724	879.836	879.937	879.860	879.743	879.626	879.509	879.273

GIRDER LOCATION	NORTH BOUND				
	10	11	12	13	14
EBRG.S.ABUT.	880.403	880.313	880.217	880.106	879.984
EBRG.N.ABUT.	880.232	880.115	879.999	879.882	879.760

GIRDER REACTION TABLE	
LOCATION	ABUTS.
R _D	63.6
R _L	49.1
IMP	10.7
R TOTAL	123.4

M_D - MOMENT DUE TO DEAD LOADS ON NON-COMPOSITE SECTION.
M_S - 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.

STEEL DETAILS

F.A.P. ROUTE 412 OVER
NORTHTOWN RD.
F.A.P. ROUTE 412-SEC. 57-2HB-2
MCLEAN COUNTY
STATION 124+99.57 (S.B.)
125+01.61 (N.B.)
STRUCTURE NUMBER 057-0216 (S.B.)
057-0217 (N.B.)

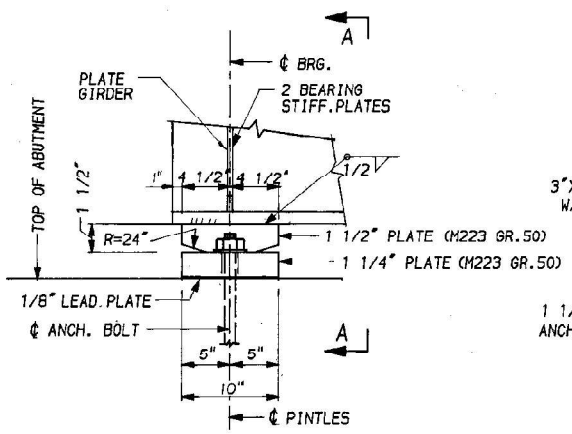
alfred benesch & company
CONSULTING ENGINEERS
233 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 2203

MODEL: Loc12 sheet 5 (Steel)
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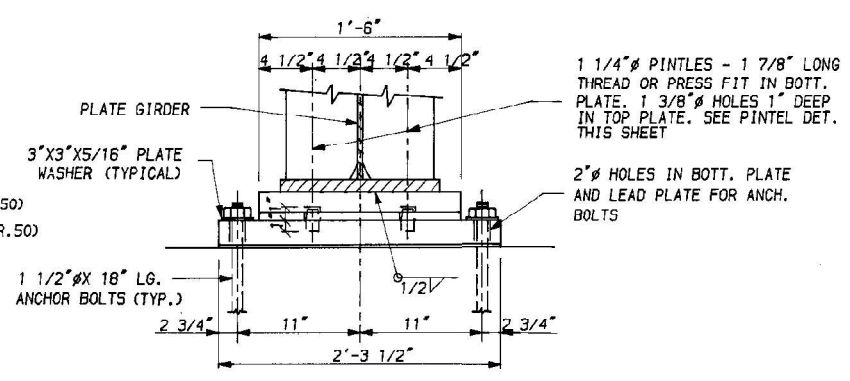
USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 1/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	57-2HB-2	MCLEAN	182	86
STA.	TO STA.			
F.H.W. A. REG. NO. 4	ILLINOIS	PROJECT		

SHEET 16 OF 26

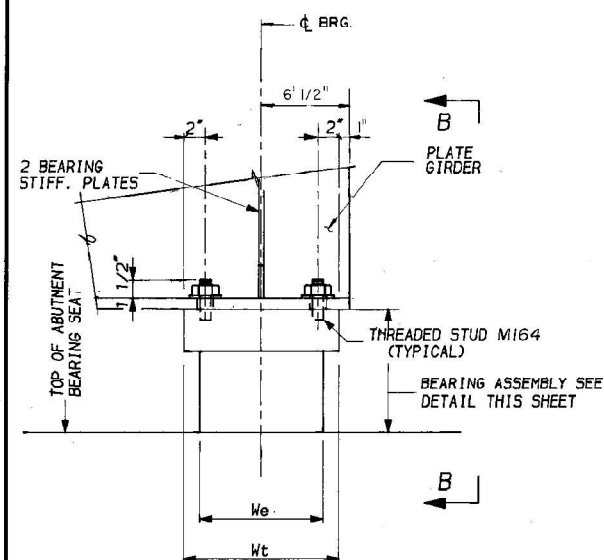


ELEVATION AT FIXED ABUTMENT
(SOUTH ABUTMENTS)

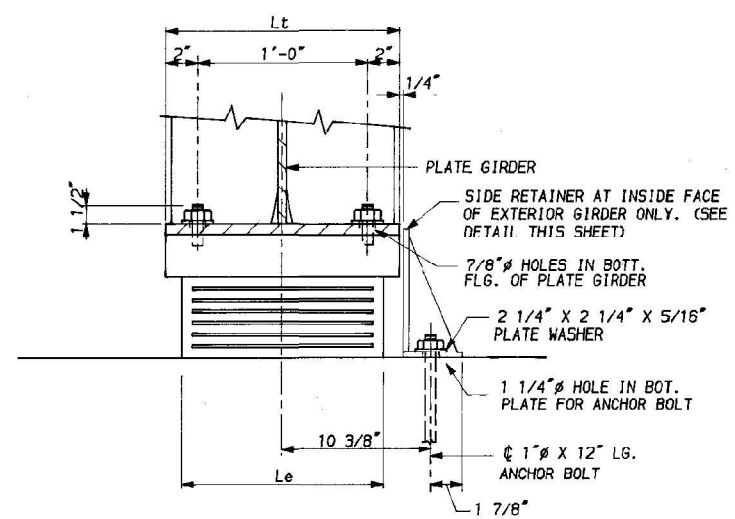


SECTION A-A

FIXED BEARING DETAILS



ELEVATION AT EXPANSION ABUTMENT
(NORTH ABUTMENTS)

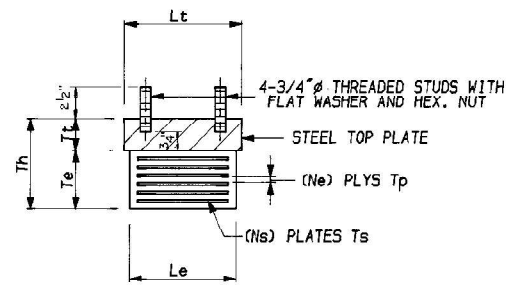


SECTION B-B

EXPANSION BEARING DETAILS - ELASTOMERIC TYPE I

TABLE Y

MARK	LOCATION			
	SOUTH ABUT'S.			
Lt	16"			
Wt	11"			
Tt	1 3/4"			
Le	14"			
We	10"			
Te	3 13/16"			
Th	5 9/16"			
Ns	6			
Ts	1/8"			
Ne	7			
Tp	7/16"			



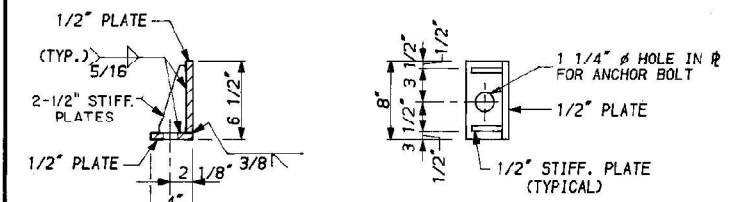
EXPANSION BEARING ASSEMBLY DETAIL

BILL OF MATERIAL

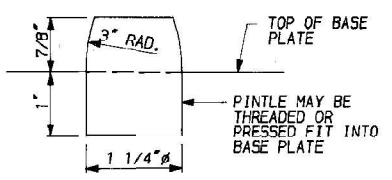
ITEM	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	15

NOTES:

SEE SHEETS 17 & 20 FOR ANCHOR BOLT INSTALLATION AT SOUTH ABUTMENTS.
 SEE SHEETS 18 & 21 FOR ANCHOR BOLT INSTALLATION AT NORTH ABUTMENTS.
 FOR SIDE RETAINER EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES.
 SHIM PLATES SHALL NOT BE PLACED UNDER ELASTOMERIC BEARING ASSEMBLY.
 FOR Lt, Wt, Tt, Le, We, Te, Th, Ns, Ts, Ne AND Tp VALUES SEE TABLE Y THIS SHEET.



SIDE RETAINER DETAILS



PINTLE DETAIL

BEARING DETAILS
 F.A.P. ROUTE 412 OVER
 NORTHTOWN RD.
 F.A.P. ROUTE 412-SEC. 57-2HB-2
 MCLEAN COUNTY
 STATION 124+99.57 (S.B.)
 125+01.61 (N.B.)
 STRUCTURE NUMBER 057-0216 (S.B.)
 057-0217 (N.B.)



MODEL: Loc112-sheet 6 (Sheet)
 FILE NAME: c:\p\work\112\112stevn.wood\112\3\0570216\114-SN-As_Bullis-Loc112.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 1/in.	DRAWN -	REVISED -
PLOT DATE = 1/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #1 & #2
 S.N. 057-0216 (SB) & S.N. 057-0217 (NB)
 SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D5	BRIDGE PAINTING 2024-2	MCLEAN	35	14
				CONTRACT NO. 70H14
ILLINOIS FED. AID PROJECT				

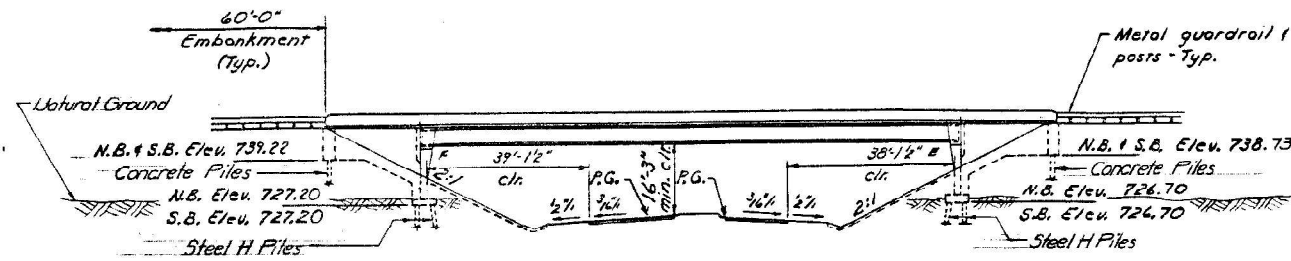
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

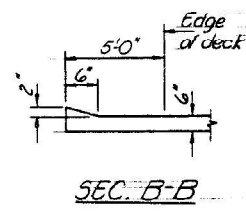
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57-118	118	MCLEAN	68	27

21 SHEETS

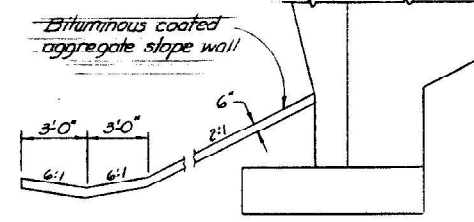
Bench Mark: P.K. nail in power pole 42' fr.
Sta. 499+87 (U.S.-136) Elev. 731.39



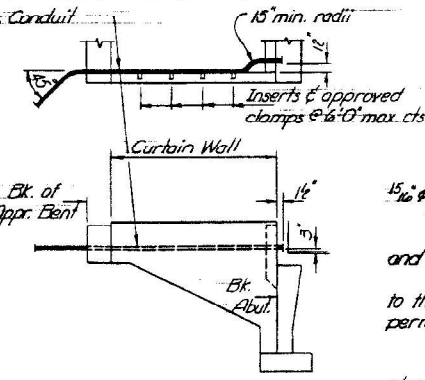
ELEVATION



SEC. B-B



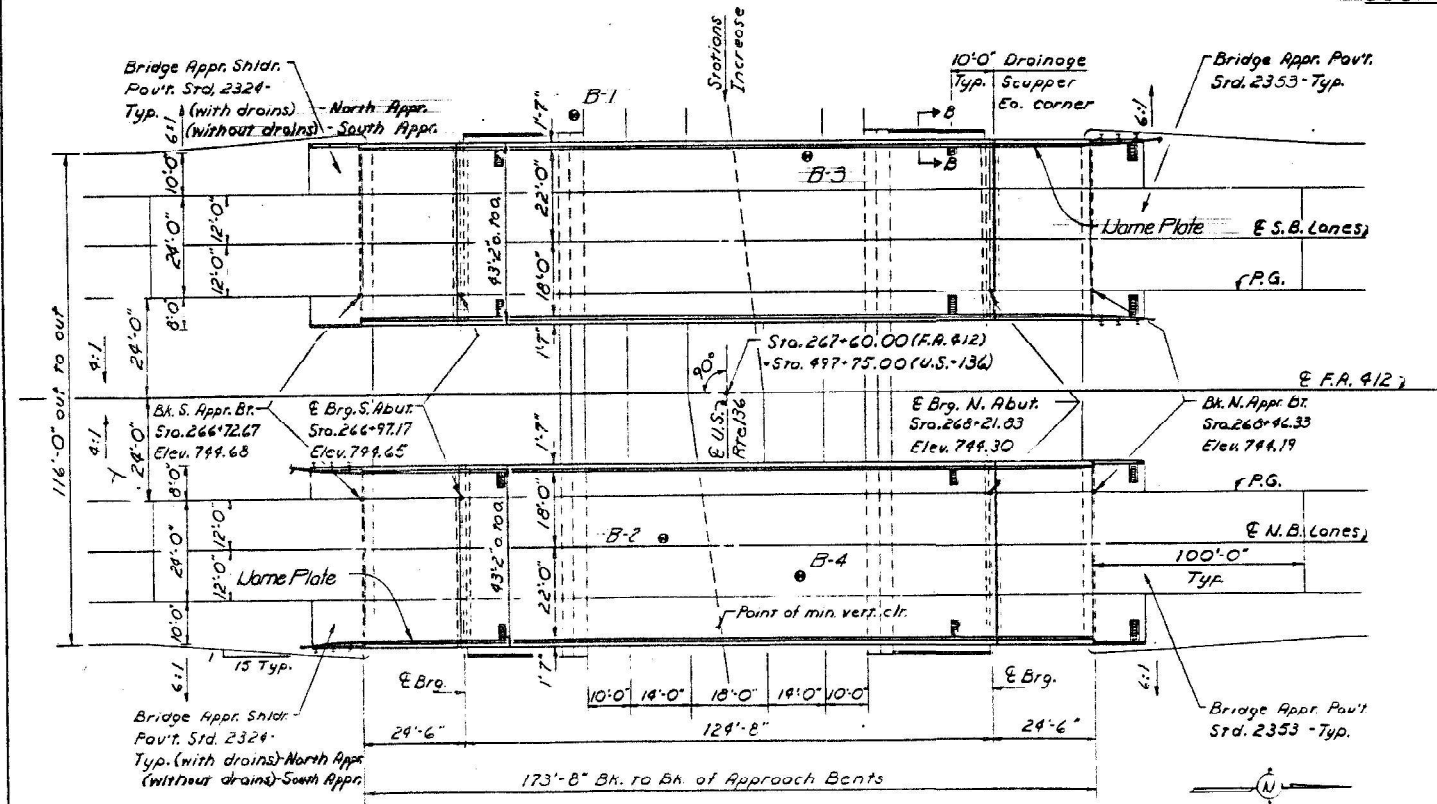
SECTION THRU SLOPE WALL



ELECTRICAL CONDUIT
DETAILS

GENERAL NOTES

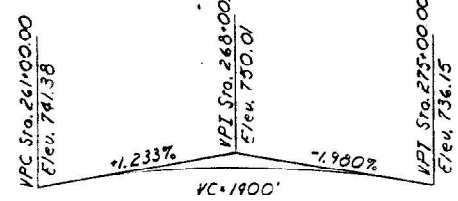
See Proposal for Boring Data.
Fasteners shall be high strength bolts. Bolts 3/4", open holes 15/16", unless otherwise noted.
Calculated weight of Structural Steel: M183=188,100; M223=150,340 lbs.
The Zinc-silicate and vinyl paint system shall be used for shop and field painting of Structural Steel except where otherwise noted.
Field welding of construction accessories will not be permitted to the bottom flange of girders. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting cross frames over supports.
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 webs and tension flanges of the steel girders.
Reinforcement bars shall conform to the requirements of AASHTO M-51 or M-53 Grade 60.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
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 1/2" 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 the top plate shall be provided and placed as detailed.
The contractor shall drive 2 test piles (Steel HP10x42) in a permanent location, one each of the So. Abut. (UBL) and the No. Abut. (SBL) and shall drive 2 concrete test piles in a permanent location, one each of the So. Appr. Bent (SBL) and the No. Appr. Bent (UBL) as directed by the Engineer before ordering the remainder of piles.



PLAN

STATION 267+60.00
BUILT 198 BY
STATE OF ILLINOIS
FA. RT. 412 SEC. 57-118
I.A. PROJ. PD. 412-7145
LOADING HS 20
*STR. UO.

NAME PLATE
(See Std. 2113)
*STR. UO. 057-0198 (G.B.L.)
057-0199 (U.B.L.)



PROFILE GRADE - F.A. 412
(@ median edge of pav't)

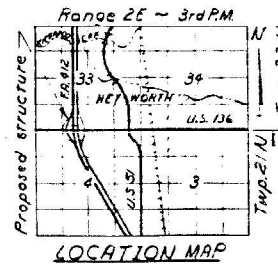
PROFILE GRADE - U.S. 136
(@ median edge of pav't)

DESIGN STRESSES
f'c=3,500 p.s.i.
fy=36,000 p.s.i. (A.A.S.H.T.O. M-183)
fy=50,000 p.s.i. (A.A.S.H.T.O. M-223, Grade 50)
fy=40,000 p.s.i. (reinforcement)
LOADING HS20-44
Design Specifications: 1983
A.A.S.H.T.O.

Allow 25#/sq. ft. for future wearing surface.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Protective Coat	Sq. Yds.	1817		1817
Structure Excavation	Cu. Yds.		848	848
Class X Concrete	Cu. Yds.	484.4	398.2	882.6
Structural Steel	L.S.			
Stud Shear Connectors	Each	2808		2808
Reinforcement Bars	Lbs.	27620	44360	71980
Reinforcement Bars (copy Lib)	Lbs.		85490	85490
Steel Piles HP10x42	Lin. Ft.		2717	2717
Test Piles (Steel HP10x42)	Each		2	2
Concrete Piles	Lin. Ft.		1391	1391
Test Piles (Concrete)	Each		2	2
Name Plates	Each		2	2
Sand Backfill	Cu. Yds.		544	544
Drainage Scuppers	Each	8		8
Preformed Joint Seal 4"	Lin. Ft.	86		86
Elastomeric Brg. Asm. Type I	Each	12		12
Bituminous coated aggregate slope wall 6"	Sq. Yds.		1097	1097
Preformed Joint Seal 1 1/2"	Lin. Ft.	86		86



LOCATION MAP

GENERAL PLAN
U.S. ROUTE 51 OVER U.S. ROUTE 136
F.A. ROUTE 412 - SECTION 57-118
MCLEAN COUNTY
STATION 267+60.00

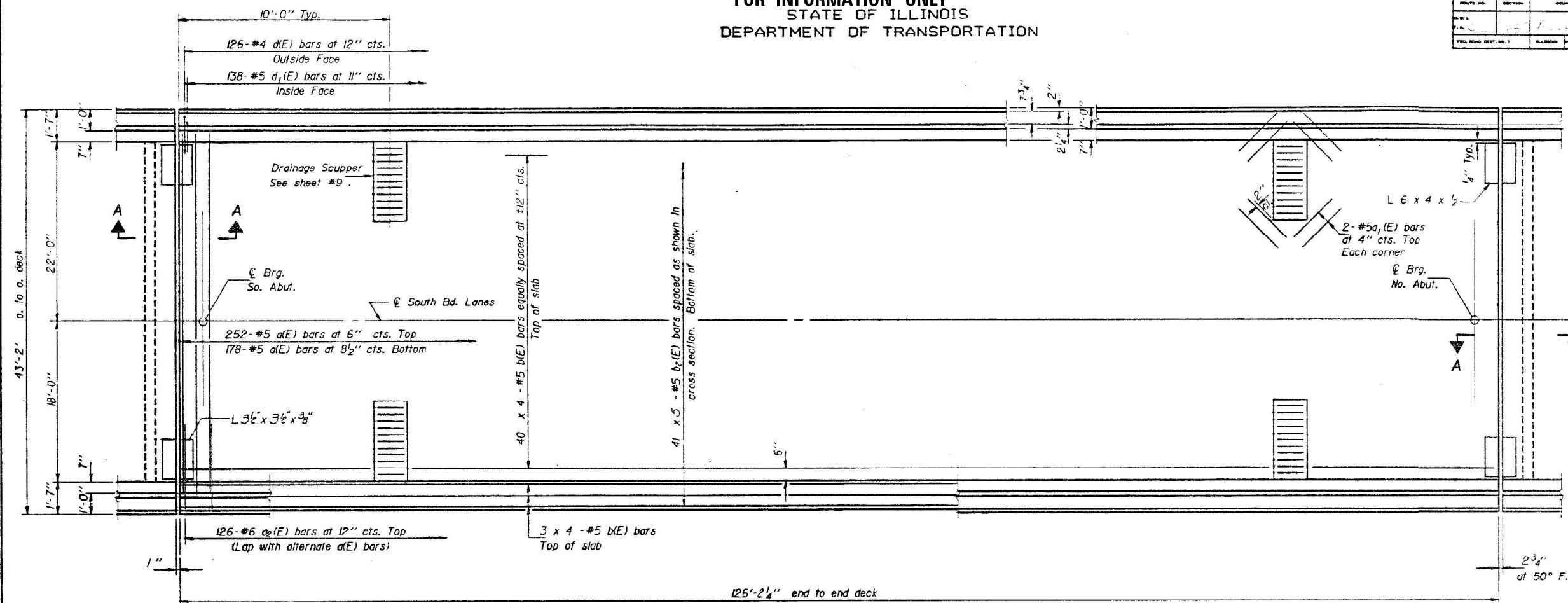
DESIGNED: *James J. Kasper*
EXAMINED: *James J. Kasper*
CHECKED: *James J. Kasper*
DRAWN: *W.C.*
CHECKED: *TEA*
DATE: May 22 1985

MODEL: Location 3rd sheet, 1 (Sheet)
FILE NAME: c:\p\work\industrial\industrial\057-0198-0199-14-SHA-AS-Built-LOC384.dgn

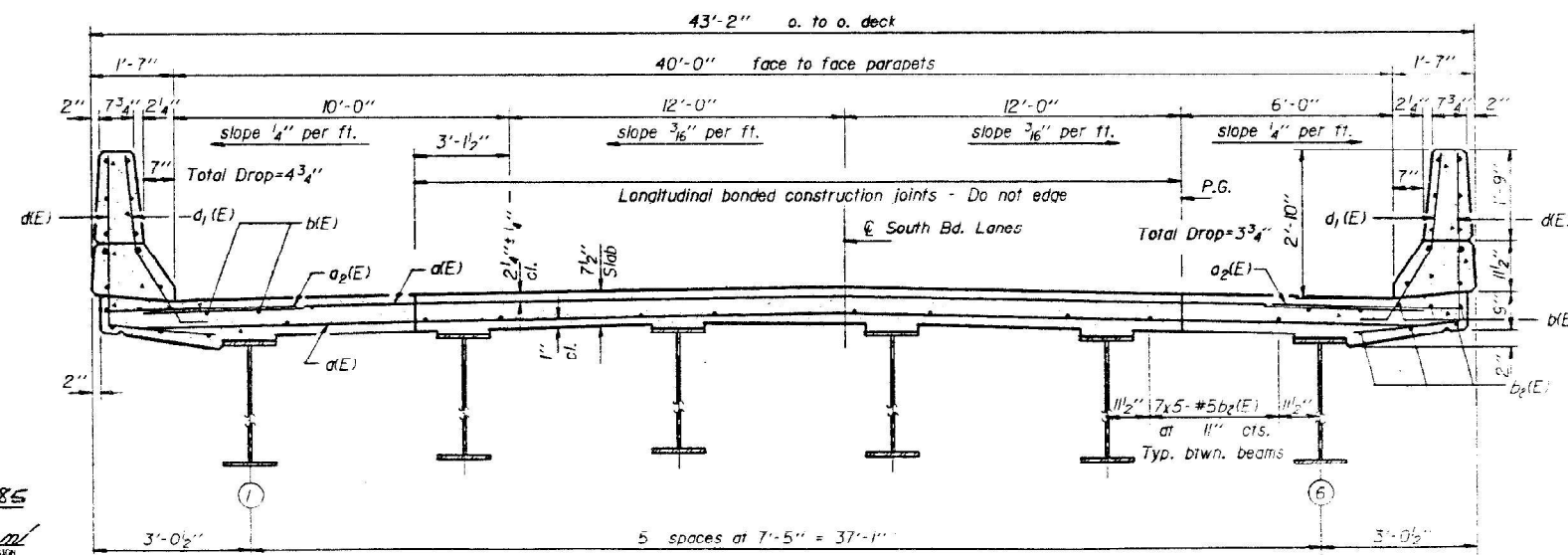
AS-BUILT PLANS FOR S.N. 057-0198 / S.N. 057-0199

FOR INFORMATION ONLY
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21	6
SHEET NO. 6				
21 SHEETS				



PLAN



CROSS SECTION
(Looking North)

Notes: See sheet #6 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.

MIN. BAR LAP
#5 Bar = 1'-2"
#8 Bar = 2'-0"

SUPERSTRUCTURE
SOUTH BOUND LANES
F.A. RT. 412 SECTION 57-IHB
McLEAN COUNTY
STA. 267+60.00

DESIGNED	<i>John E. Adams</i>
CHECKED	<i>James J. Robinson</i>
DRAWN	J.T. Downing
CHECKED	TEA GR

May 22 1985
EXAMINED *James J. Robinson*
PASSED *James J. Robinson*
APPROVED _____
DIRECTOR OF HIGHWAYS

S-2-0 12-1-B3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #3 & #4
S.N. 057-0198 (SB) & S.N. 057-0199 (NB)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	16
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

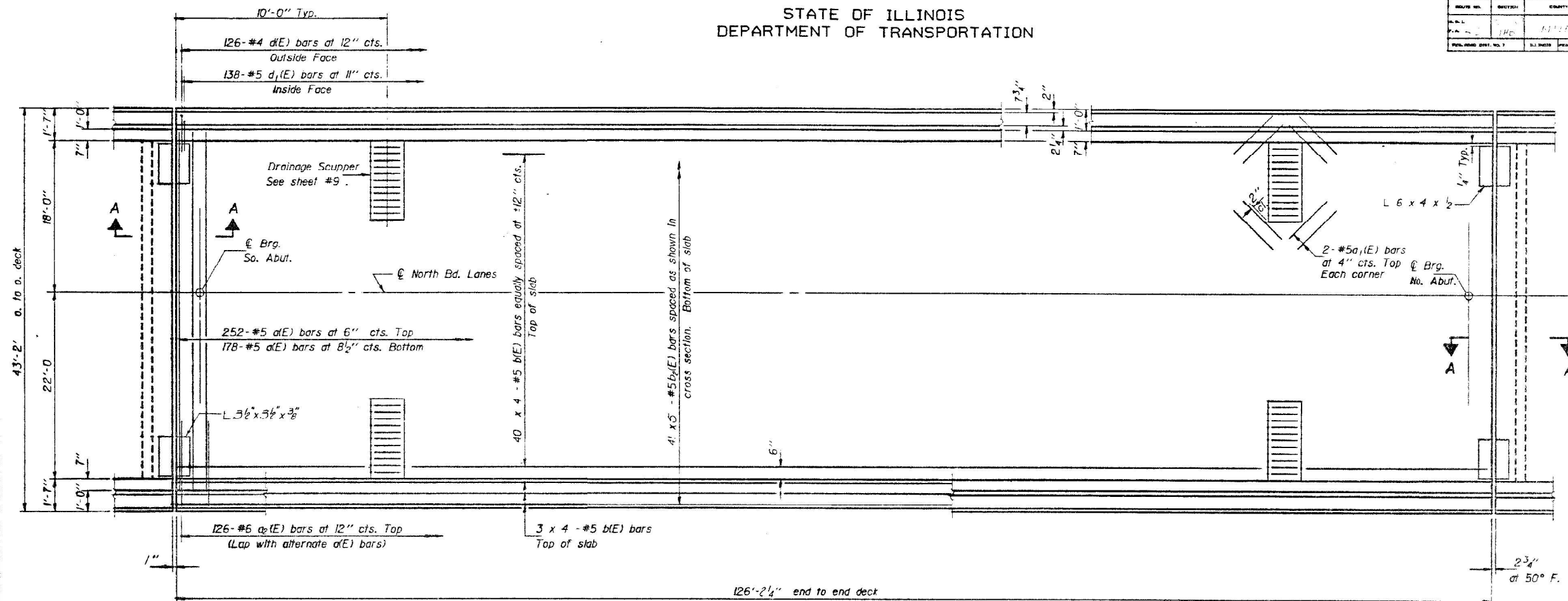
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MODEL: Location 3rd sheet 2 (Sheet)
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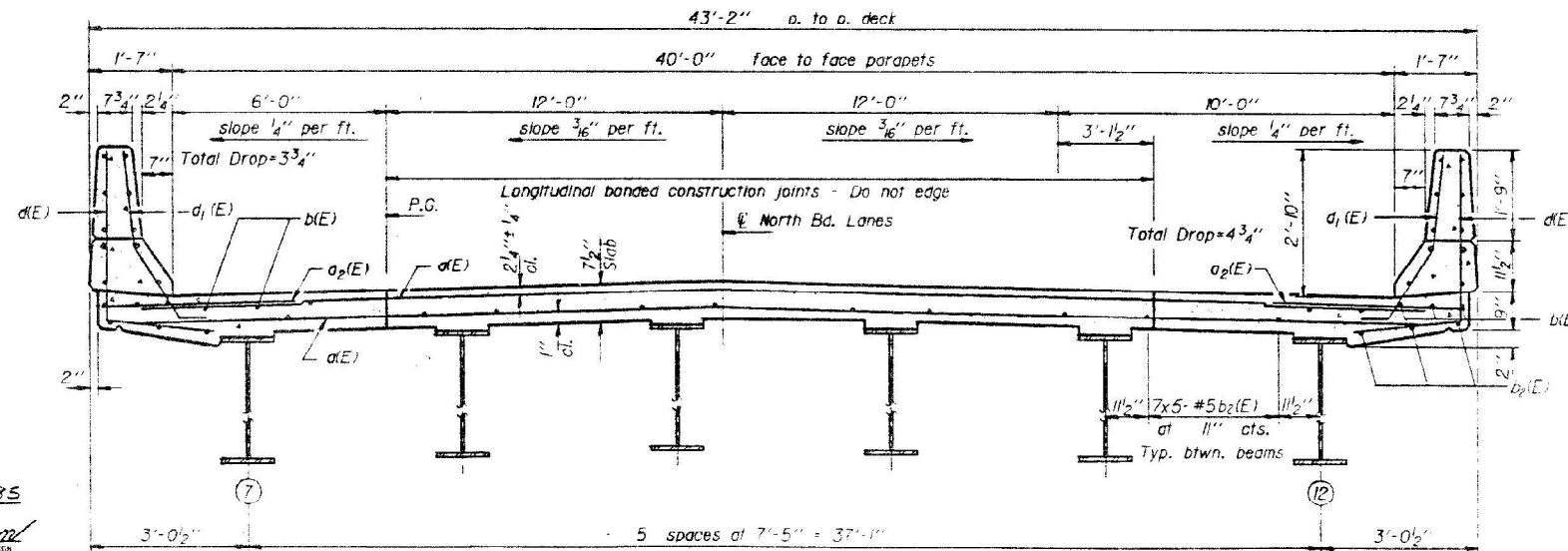
AS-BUILT PLANS FOR S.N. 057-0198 / S.N. 057-0199
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	DISTRICT	COUNTY	SECTION	SHEET NO.	SHEET NO.
190	180	MCLEAN	68	36	21 SHEETS



PLAN



CROSS SECTION
(Looking North)

Notes: See sheet #8 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.

MIN. BAR LAP
#5 Bar = 1'-8"
#8 Bar = 2'-8"

SUPERSTRUCTURE
NORTH BOUND LANES
F.A. RT. 412 SECTION 57-IHB
McLEAN COUNTY
STA. 267+60.00

DESIGNED *John E. Ahrens*
CHECKED *James J. Richardson*
DRAWN *J.T. Downing*
CHECKED *TEA*

EXAMINED *James J. Richardson*
PASSED *James J. Richardson*
APPROVED *James J. Richardson*
DIRECTOR OF HIGHWAYS

May 22 1985

S-2-0 12-1-83

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #3 & #4
S.N. 057-0198 (SB) & S.N. 057-0199 (NB)

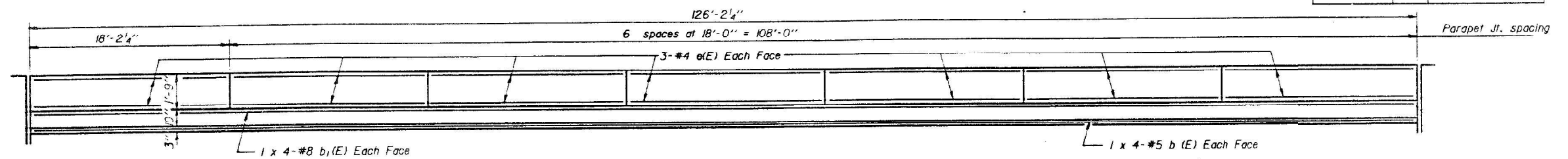
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	17
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

MODEL: Location 3rd sheet 3 (Sheet)
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

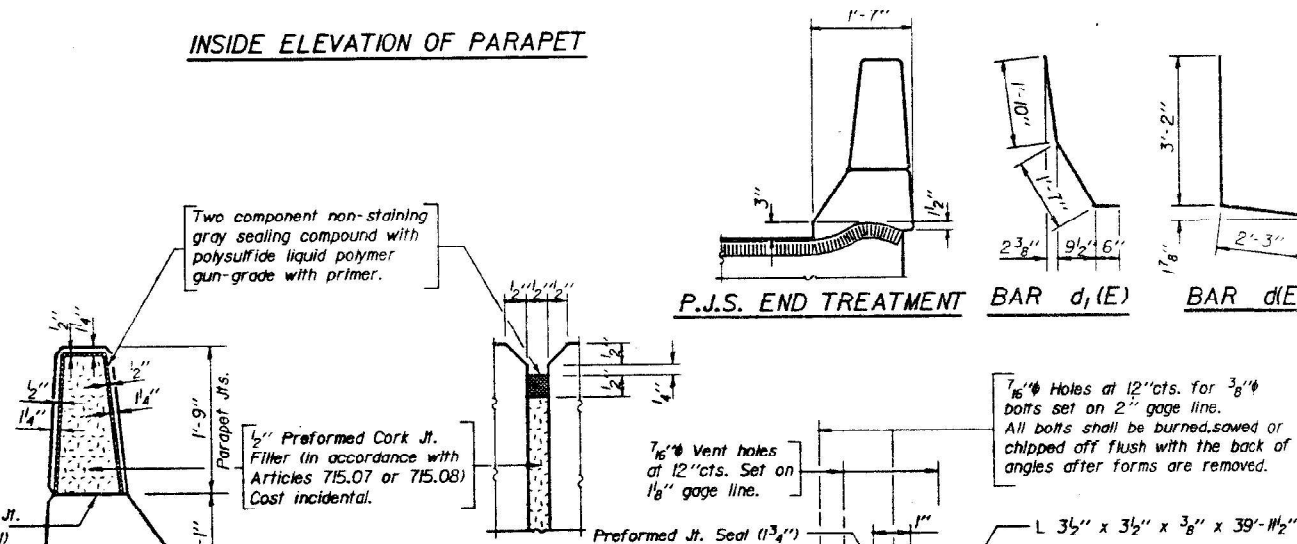
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P.A. 316	112		48	21
SHEET NO. 8				
21 SHEETS				



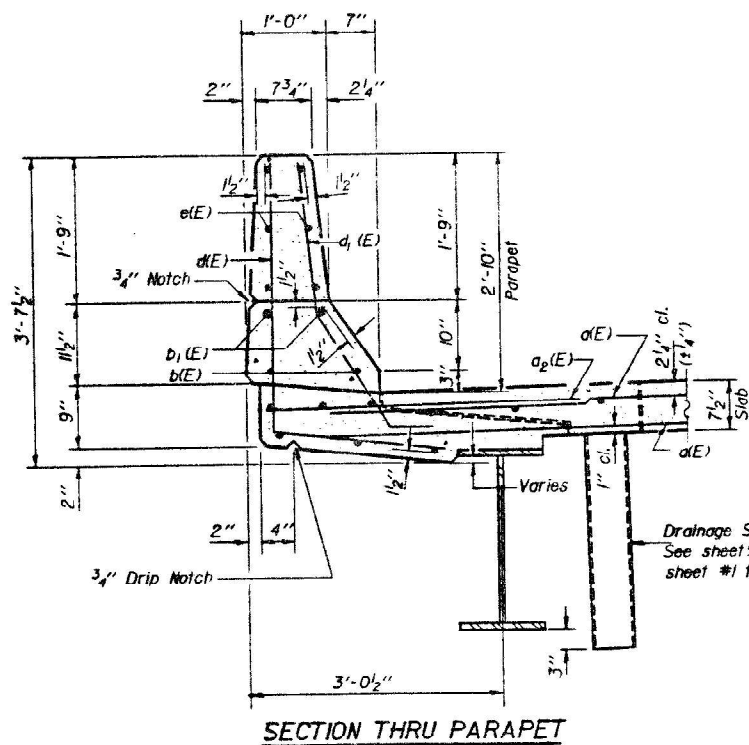
MIN BAR LAP

- #5 Bar = 1'-8"
- #8 Bar = 2'-8"

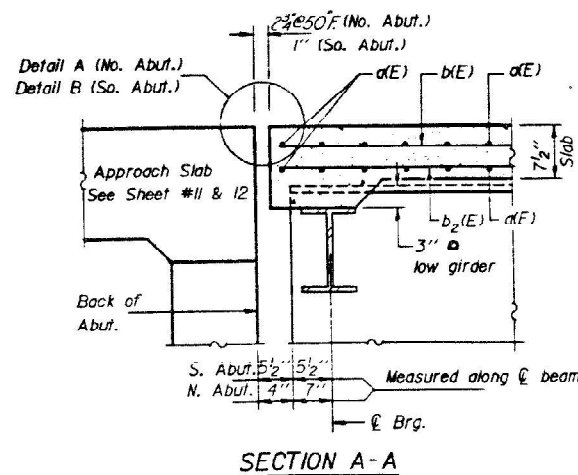
INSIDE ELEVATION OF PARAPET



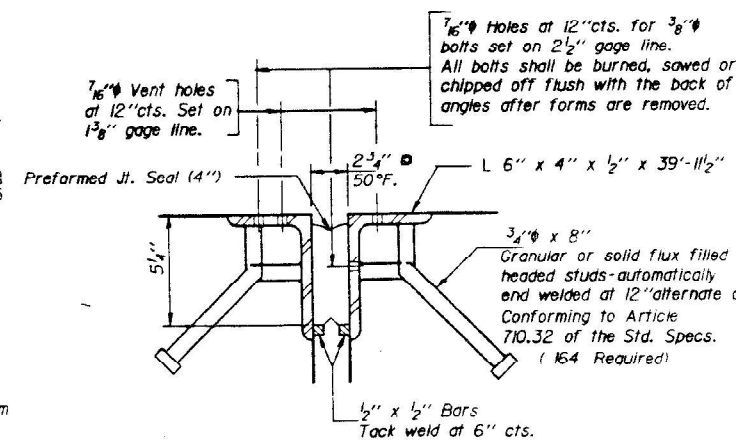
PARAPET JOINT DETAILS



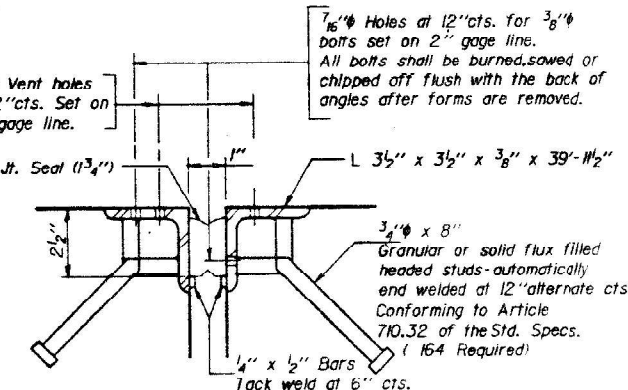
SECTION THRU PARAPET



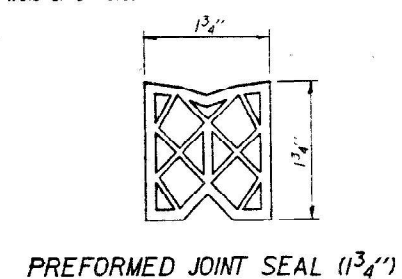
SECTION A-A



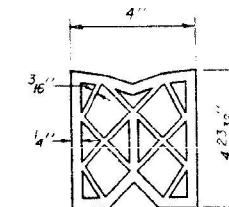
DETAIL A



DETAIL B



PREFORMED JOINT SEAL (1 3/4")



PREFORMED JOINT SEAL (4")

TWO SUPERSTRUCTURES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	860	#5	41'-3"	
a1(E)	64	#5	2'-0"	
a2(E)	504	#6	4'-0"	
b(E)	400	#5	32'-6"	
b1(E)	32	#8	33'-6"	
b2(E)	410	#5	26'-9"	
d(E)	504	#4	5'-5"	L
d1(E)	552	#5	3'-11"	L
e(E)	168	#4	17'-9"	
Reinforcement Bars (Epoxy Coated)		Lbs.	74090	
Class X Concrete		Cu. Yds.	312.4	

TWO SUPERSTRUCTURES DETAIL:
F.A. RT. 412 SECTION 57-IHB
McLEAN COUNTY
STATION 267+60.00

DESIGNED: *Steven Wood*
CHECKED: *James J. Robinson*
DRAWN: J.T. Downing
CHECKED: TEA
DATE: May 22, 1985
APPROVED: *James J. Robinson*
DIRECTOR OF HIGHWAYS

S-2-D 12-1-83

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN -	REVISED -
PLOT DATE = 1/4/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #3 & #4
S.N. 057-0198 (SB) & S.N. 057-0199 (NB)

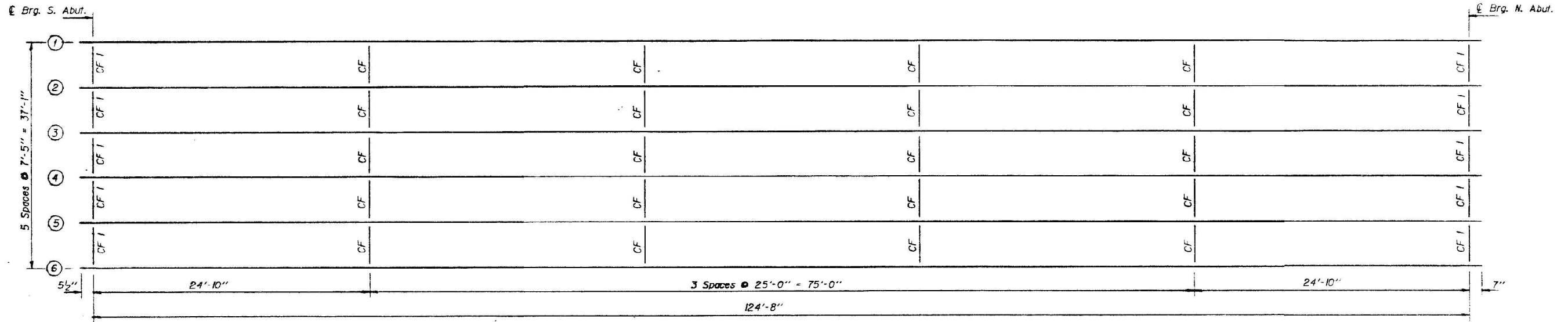
SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D5 BRIDGE PAINTING 2024-2		MCLEAN	35	18
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

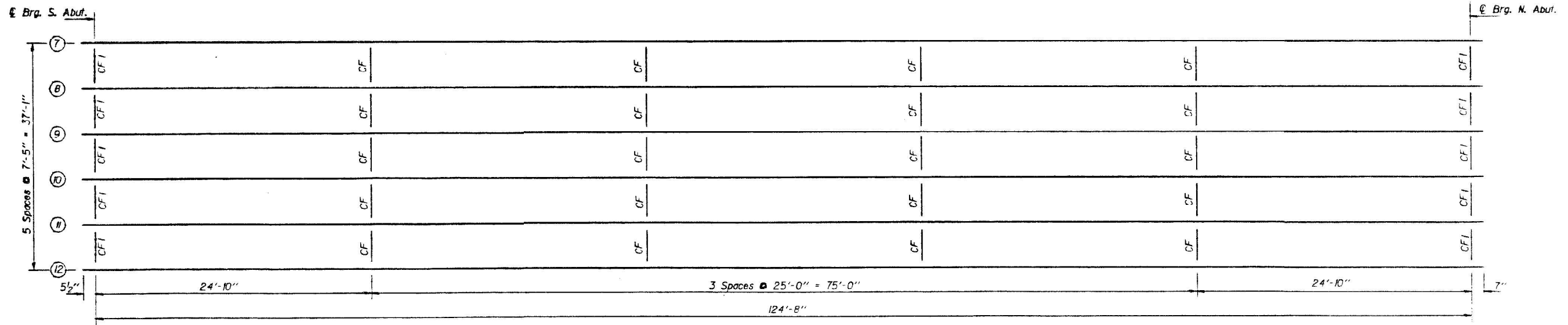
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	DESIGNER	CHECKER	SCALE	SHEET NO.
5/22/85	J.E. Adams	J.T. Downing	1/8"	39
PROJECT		SHEET NO.		
F.A. RT. 412 SECTION 57-IHB		21 SHEETS		



SOUTH BOUND LANES



NORTH BOUND LANES

DESIGNED <i>J.E. Adams</i>	EXAMINED <i>James T. Robinson</i>
CHECKED <i>J.T. Downing</i>	PASSED <i>James T. Robinson</i>
DRAWN <i>J.T. Downing</i>	APPROVED <i>James T. Robinson</i>
CHECKED TEA GR	DIRECTOR OF HIGHWAYS

May 22 1985

Note: For Structural Steel details see sheet # 14.

FRAMING PLAN
STRUCTURAL STEEL
F.A. RT. 412 SECTION 57-IHB
MCLEAN COUNTY
STA. 267+60.00

MODEL: Location 3rd sheet 5 (Sheet)
FILE NAME: c:\p\work\wv\rd\stevan.wood@illinois.gov\09416731D570H14-SNH-As_Bulbs-Loc384.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN -	REVISED -
PLOT DATE = 1/4/2024	CHECKED -	REVISED -
	DATE -	REVISED -

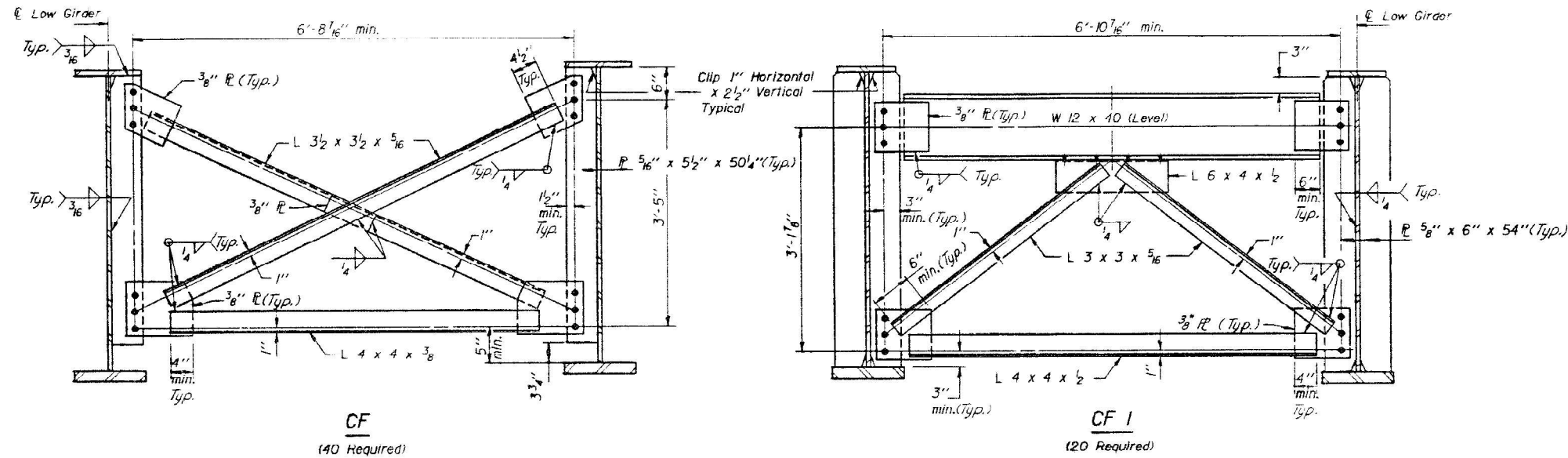
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT PLANS LOCATION #3 & #4		
S.N. 057-0198 (SB) & S.N. 057-0199 (NB)		
SCALE:	SHEET 5 OF 7 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	19
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
110	40	40	21 SHEETS

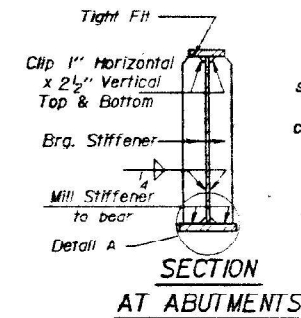
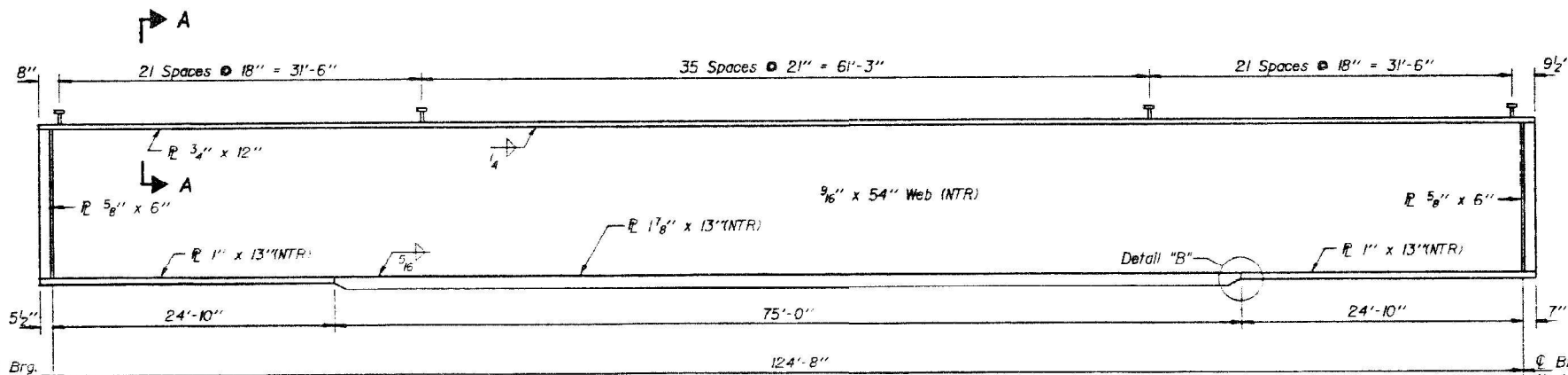


INTERIOR BEAM MOMENT TABLE

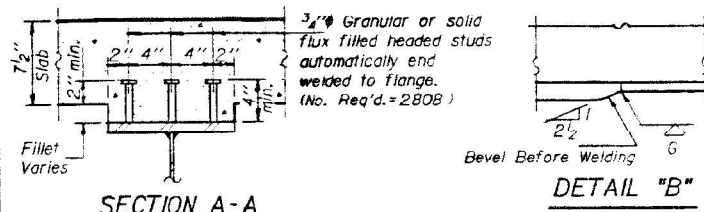
I_s (in. ⁴)	0.5 Sp.
I_c (in. ⁴)	30203.0
S_s (in. ³)	1369.1
S_c (in. ³)	1915.0
ϕ (K/I)	0.944
$M\phi$ (K)	1834.6
$s\phi$ (K/I)	0.322
$Ms\phi$ (K)	625.6
$M\phi$ (K)	1324.0
M_{Imp} (K)	264.8
S_3 (M ₄ +I) (K)	2648.1
M_0 (K)	6640.7
M_u (K)	7779.7
f_s non-comp (ksi)	16.1
f_s comp (ksi)	3.9
f_s (4+I) (ksi)	16.6
f_s (Overload) (ksi)	36.6
f_s (Total) (ksi)	47.6
VR (K)	53.9

INTERIOR BEAM REACTION TABLE

R ϕ (K)	Abut.
R ϕ (K)	78.9
Imp. (K)	44.9
R (Total) (K)	9.0
R (Total) (K)	132.8



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.
 f_s (Total) is the sum of the stresses due to $1.3 [M\phi + Ms\phi + S_3(M_4 + I)]$
 f_s (Overload) is the sum of the stresses due to $M\phi + Ms\phi + S_3(M_4 + I)$
 M_0 (Applied Moment) = $1.3 [M\phi + Ms\phi + S_3(M_4 + I)]$
 M_u is the ultimate moment capacity for non-compact section.



NORTH BOUND LANES

Girder #12	Girder #11	Girder #10	Girder #9	Girder #8	Girder #7	
Brg. S. Abut.	743.72	743.88	744.00	744.06	743.94	743.5
Brg. N. Abut.	743.37	743.53	743.65	743.71	743.59	743.46

SOUTH BOUND LANES

Girder #1	Girder #2	Girder #3	Girder #4	Girder #5	Girder #6	
Brg. S. Abut.	743.72	743.88	744.00	744.06	743.94	743.5
Brg. N. Abut.	743.37	743.53	743.65	743.71	743.59	743.46

TOP OF WEB ELEVATIONS *
* For fabrication only

DESIGNED: *David E. Adams*
 CHECKED: *James J. Reuburn*
 DRAWN: *TEA GR*

EXAMINED: *James J. Reuburn*
 PASSED: *James J. Reuburn*
 APPROVED: *James J. Reuburn*

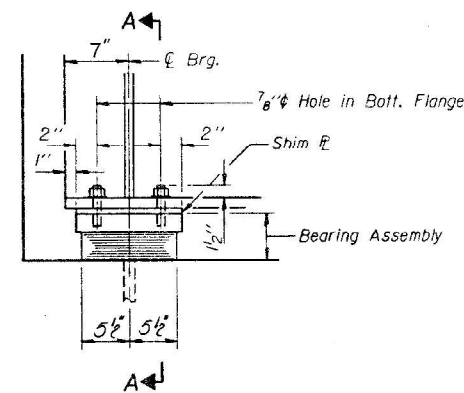
DATE: 1/4/2024

Notes:
 All girder flanges shall be AASHTO M223 Grade 50.
 All girder webs, bearing stiffeners, bearing retainers, fixed bearing plates, shims, cross frames and connecting plates shall be AASHTO M183.
 Two hardened washers shall be required over all $\frac{1}{16}$ " holes.
 For Camber Diagram see sh. # 15.

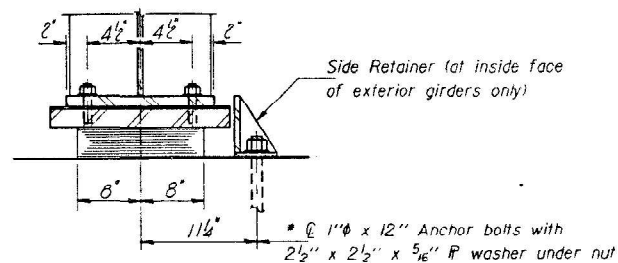
STRUCTURAL STEEL
 F.A. RT. 412 SECTION 57-IHB
 McLEAN COUNTY
 STA. 267+60.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

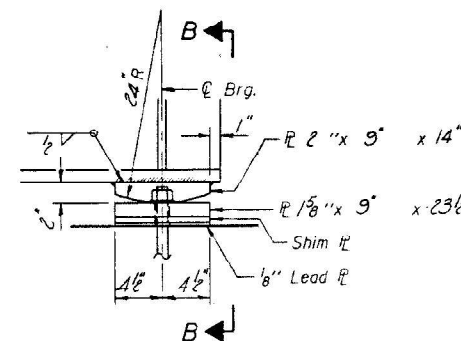
ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET NO.
412	57-1HB	MCLEAN	66	41
SHEETS				



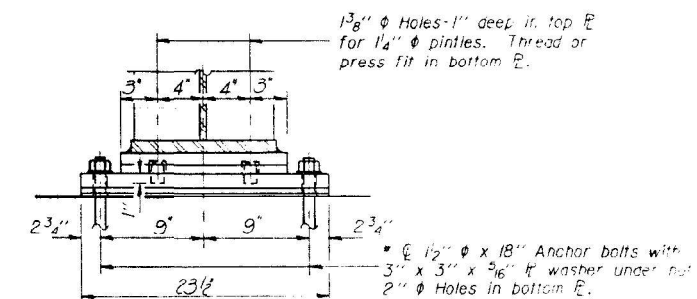
ELEVATION AT NORTH ABUTS



SECTION A-A



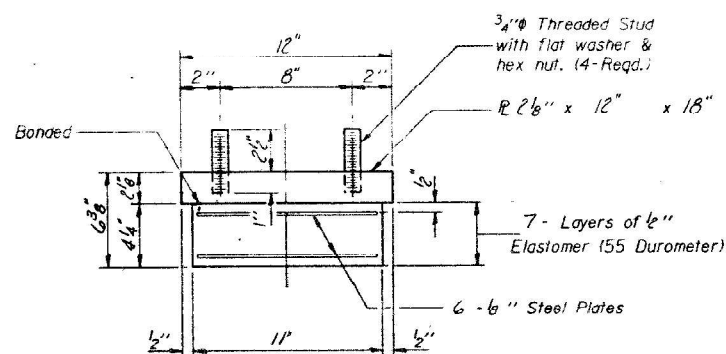
ELEVATION AT SOUTH ABUTS



SECTION B-B

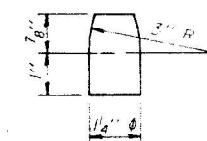
TYPE I ELASTOMERIC EXP. BRG.

* Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet # 20 for Anchor Bolt installation.



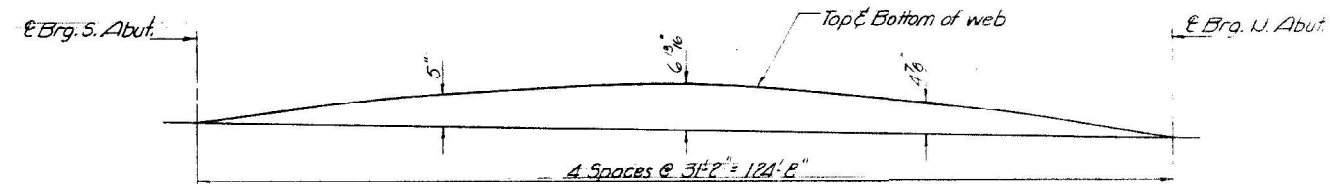
BEARING ASSEMBLY

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

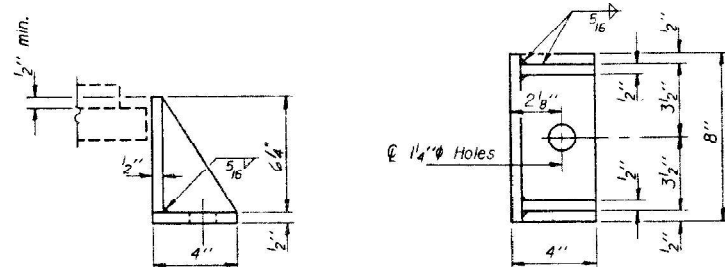


PINTLE

FIXED BEARING



CAMBER DIAGRAM



SIDE RETAINER

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

DESIGNED	<i>Joel E. Adams</i>
CHECKED	<i>James T. Kasper</i>
DRAWN	
CHECKED	<i>TEA</i>

EXAMINED	<i>May 22 1985</i>
PASSED	<i>James T. Kasper</i>
APPROVED	

I-2-E1 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12

BEARINGS
F.A. RT. 412 SEC. 57-1HB
MCLEAN COUNTY
STA. 267+60.00

MODEL: Location 3rd sheet 7 (Sheet)
FILE NAME: c:\p\work\wv\elastomeric\wood\0570198\0570198-As-Built-As-Built-Loc384.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

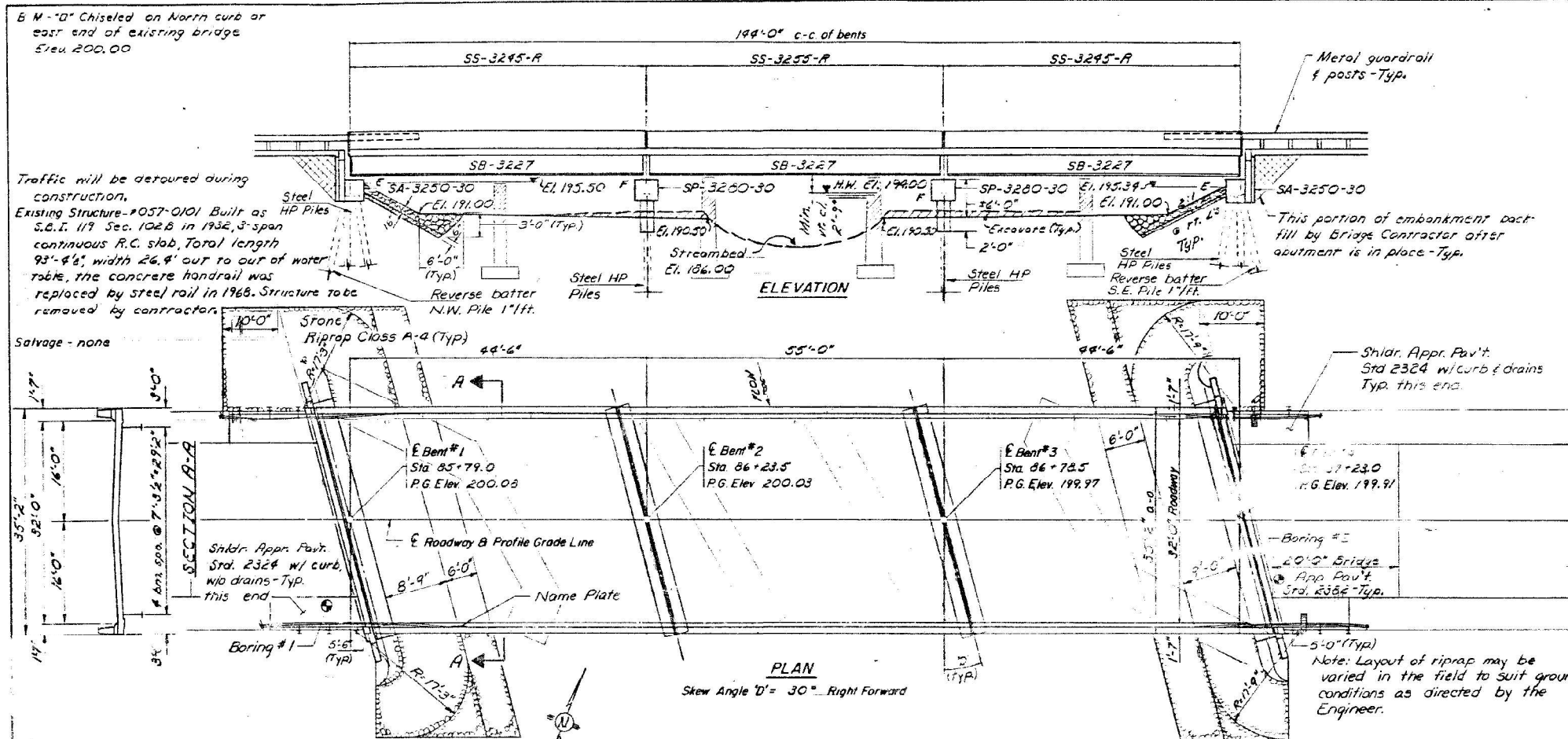
AS BUILT PLANS LOCATION #3 & #4
S.N. 057-0198 (SB) & S.N. 057-0199 (NB)

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D5 BRIDGE PAINTING 2024-2		MCLEAN	35	21
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS FOR S.N. 057-0200
FOR INFORMATION ONLY

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
S.B.I. 119	102B	McLean	36	21	11 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT					



GENERAL NOTES

See Special Provisions for boring data and Top of Slab Elevations.
Class X Concrete shall be used throughout.
Fasteners shall be high strength bolts (AASHTO M164, Type 3). Bolts $\frac{3}{4}$ " ϕ , open holes $\frac{1}{8}$ " ϕ , unless otherwise noted.
All structural steel shall be AASHTO M222 except expansion joint angles and attached bars which shall be AASHTO M183.
The Zinc-silicate and vinyl paint system shall be used for shop and field painting of Structural Steel except where otherwise noted.
Expansion joint angles and attached bars shall be shop painted with the zinc-silicate primer.
AASHTO M222 structural steel shall not be painted except that for a distance of three times the depth of the beams (but not exceeding 10 feet) each way from the deck joints, the structural steel shall be cleaned and given one coat of the zinc-silicate primer and a dark maroon vinyl finish coat. Both coats may be applied in the shop with spot painting only in the field.
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.
Anchor bolts shall be set before bolting diaphragms over supports.
The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M222.
The main load carrying member shall conform to the Supplemental Requirements for Notch Toughness Zone 2.
Reinforcement bars shall conform to the requirements of AASHTO M31, M42, or M53, Grade 60.
The Contractor shall drive one steel (HP 10x42) test pile in permanent locations at Bent 1 & Bent 3 as directed by the Engineer before ordering the remainder of piles.
For cantilever forming brackets, see Special Provisions.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub		Total
			Piers	Abuts	
Removal of Existing Structures	Each				1
Structure Excavation	Cu Yd		28	90	118
Floor Drains	Each	14			14
Protective Coat	Sq Yd	638			638
Class X Concrete	Cu Yd		52.3	62.8	115.1
Preformed Joint Seal 4"	Lin Ft				80
F&E Struct Steel	L Sum				1
Stud Shear Connectors	Each	2050			2050
Elast Bearing Assy T1	Each		10		10
Reinforcement Bars	Lbs		4860	5260	9920
Rein Bars (Epoxy Ctd)	Lbs	37250			37250
Steel Piles HP 10 x 42	Lin Ft		367	298	665
Class X Concrete Superstructure	Cu Yd	155.8			155.8
Test Pile Steel (HP 10 x 42)	Each		1	1	2
Name Plates	Each	1			1
Stone Riprap Class A-4	Sq Yd				352

*** Superstructure deck surface is included.

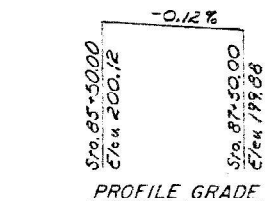
BEARING CAP ELEVATION DATA

Bent	'CE'	Bm #1		Bm #2		Bm #3		Bm #4		Bm #5	
		'BE1'	'E1'	'BE2'	'E2'	'BE3'	'E3'	'BE4'	'E4'	'BE5'	'E5'
#1	196.36	196.51	196.51	196.42	3"	196.73	196.73	196.61	2 7/8"	196.49	196.49
#2	196.52	196.67	196.67	196.78	3"	196.89	196.89	196.77	2 3/8"	196.65	196.65
#3	196.46	196.60	196.60	196.71	3"	196.82	196.82	196.70	2 3/8"	196.58	196.58
#4	196.19	196.34	196.34	196.45	3"	196.55	196.55	196.44	2 3/8"	196.32	196.32

WATERWAY INFORMATION

Drainage Area = 12.5 sq. mi. Low Grade Elev. = 197.56' (197.99' (P)) At Sta 87+50

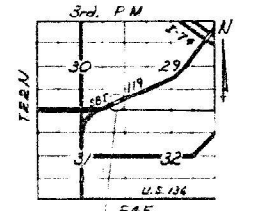
Flood Yr	Freq	D C.F.S.	Opening Sq Ft		Natural		Head-F1		Headwater El.	
			Exist	Prop	HWE	Exist	Prop	Exist	Prop	
Design	30	1825	228	397	194.0	2.32	0.68	194.32	194.48	
Base	100	2346	252	451	194.5	3.14	0.94	197.64	197.84	
Overtopping										
Max Calc	500	3022		509	195.1		1.30		196.40	



PILE DATA

Bent	Type	#1		#2		#3		#4	
		STL H	STL H	STL H	STL H	STL H	STL H	STL H	STL H
Capacity-Ton		43	33	33	43				
Estimated Length-Feet		24	25	20	22				
Number Required		6	9	8	7				
Test Piles		1		1					

* Driven to bearing.



INDEX OF SHEETS

GEN. INDEX	INDEX OF SHEETS
21	1. General Plan & Elevation
22	2. Standard SS-3245R
23	3. Standard SS-3255R
24	4. Standard SB-3227
25	5. Standard SA-3250-30
26	6. Standard SP-3280-30
27	7. Standard SD-3201
28	8. Standard SD-3202
29	9. Standard SE-3200
30	10. Standard SI-1
31	11. Anchor Bolt Details for Bearings

** See sheet #11 for anchor bolt details.

DESIGN SPECIFICATIONS

1983 AASHTO & 1984, 1985, and 1986 Interims
H520-44 Loading, Load Factor Design

HIGHWAY CLASSIFICATION
S.B.I. 119 - Leroy Spur
D.H.U. - 144 (2005)
R.D.T. - 950 (1985); 1150 (2005)
Functional class - major
Design speed - 50 m.p.h.

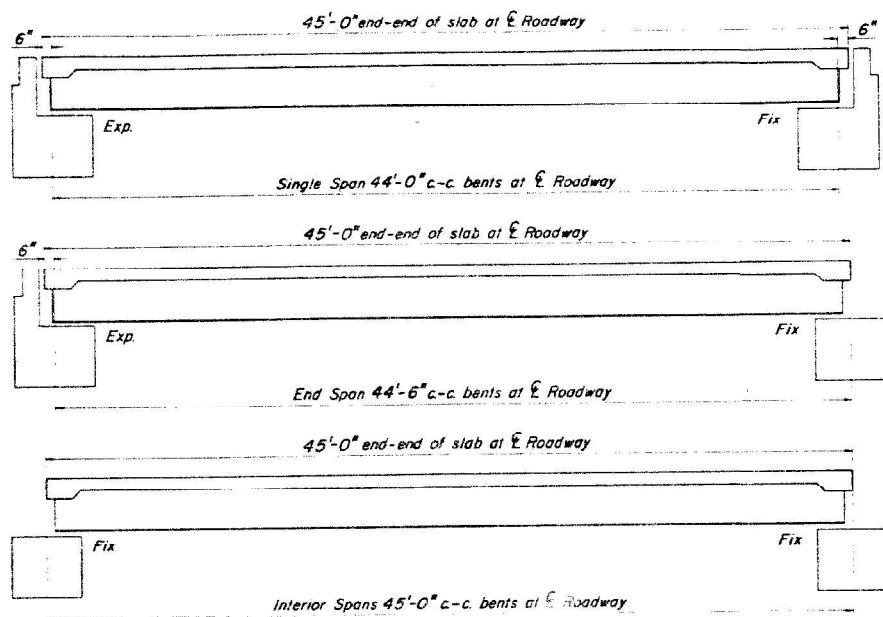
STATION 86+51.00
LEROY SPUR
BUILT 1962
C.B.I. RTE. 119 SEC. 102BR4
PROJ. BROS. 113 (13)
LOADING H520
STR. NO. 057-0200

LETTERING FOR NAME PLATE
Locate Name Plate at
Corner of Bridge (See Standard 2113)

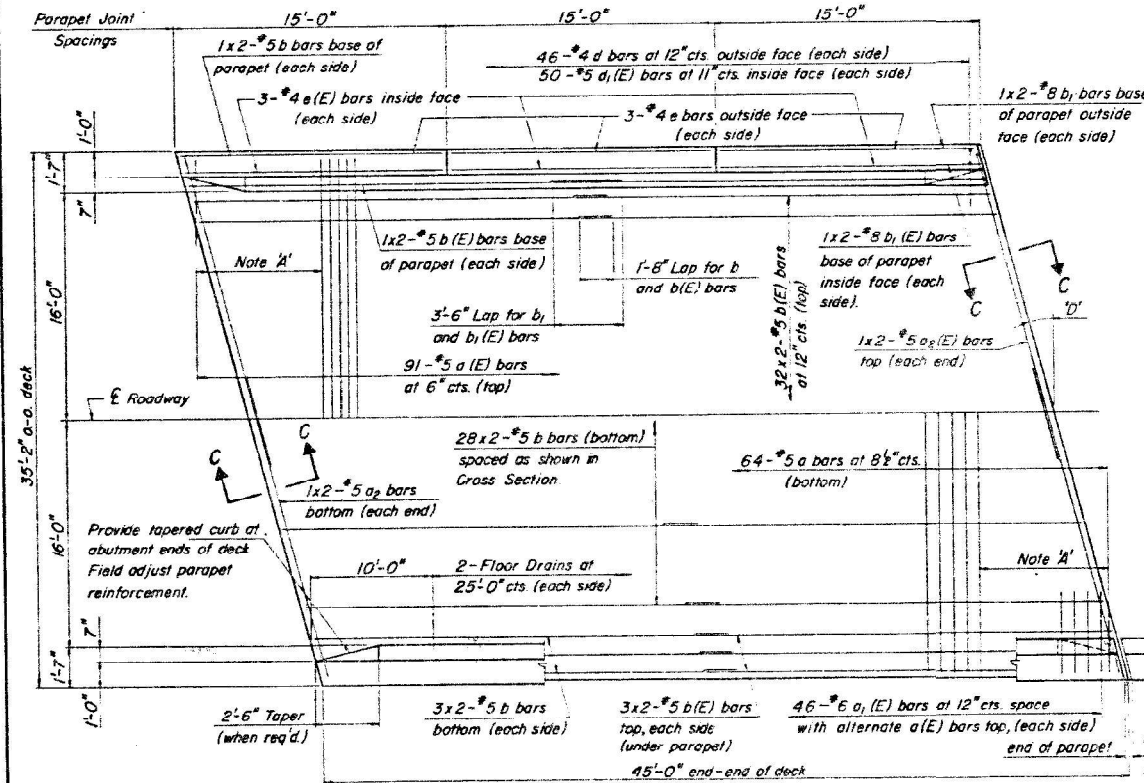
SGP-3R(7-I-BI) AFS A.K. DJR
Illinois Department of Transportation
APPROVED: [Signature] 1985
Rev. 3-9-88 D.B.

MODEL: As Built Loc 5 Sheet 1 (Sheet)
FILE NAME: c:\p\work\br11\stbrn\loc05\0570200\14-SHA-As_Built-Loc5.dgn

**AS-BUILT PLANS FOR S.N. 057-0200
FOR INFORMATION ONLY**



TYPICAL ELEVATIONS

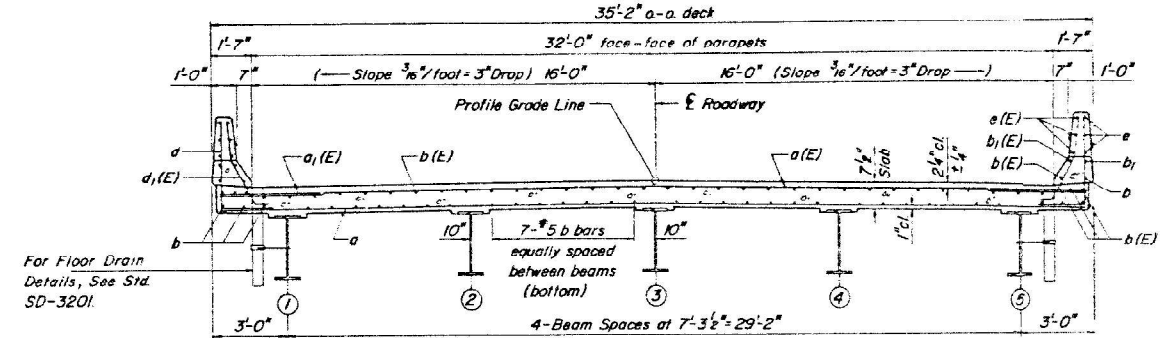


**PLAN
(V=Designated Skew Angle)**

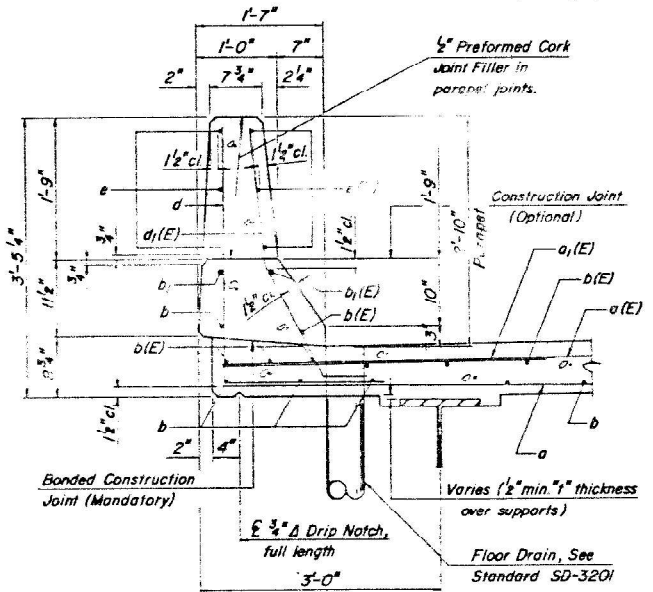
Illinois Department of Transportation
APPROVED SEP 15, 1984
Engineer of Bridges and Structures
APPROVED JUL 1, 1988
Engineer of Design

Bars indicated thus;
28 x 2-#5 etc. indicates
28 lines of bars with 2
lengths per line

Note X:
Field cut a and a(E) bars to fit
skew and use remainder of bars
in opposite end

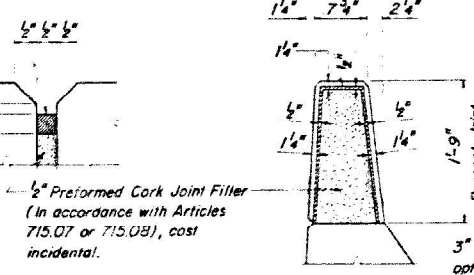


**CROSS SECTION
(Looking Upstation)**



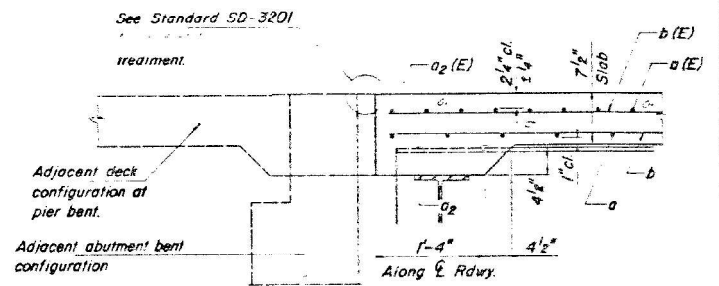
PARAPET SECTION

Two component non-staining gray
sealing compound with polysulfide
liquid polymers - gun grade with
primer.



PARAPET JOINT DETAILS

METHOD FOR DETERMINING FILLET HEIGHT "f"
After all structural steel has been erected, elevations of the top flanges of each
beam shall be taken at intervals not to exceed 10 feet. From these elevations,
subtract the increment of deflection for these points determined from the "Dead
Load Deflection Diagram". The elevation so obtained subtracted from the
theoretical top of slab elevations over each beam minus the slab thickness equals
the fillet height "f" above the top of the beam.



SECTION C-C

BAR LIST FOR ONE SPAN

Bar	No.	Size	Length	Shape
a	64	#5	34'-7"	
a(E)	91	#5	34'-7"	
a1(E)	92	#6	4'-0"	
a2	4	#5	25'-8"	
a2(E)	4	#5	20'-6"	
b	72	#5	23'-2"	
b(E)	80	#5	23'-2"	
b1	4	#8	24'-1"	
b1(E)	4	#8	24'-1"	
d	92	#4	5'-2"	
d1(E)	100	#5	3'-11"	
e	18	#4	14'-8"	
e(E)	18	#4	14'-8"	

All reinforcement bars in the above table
shall be epoxy coated.

QUANTITIES FOR ONE SPAN

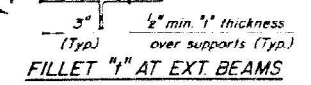
Class II Concrete	48.3 Cu Yds.
Reinforcement Bars	4890 Lbs.
Rein. Bars (Epoxy Coated)	6700 Lbs.
Floor Drains	4 Each
Protective Coat	197.9 Sq Yds.

DESIGN STRESSES

$f_c = 3,500$ psi
 $f_y = 60,000$ psi

**STEEL BEAM BRIDGES
SUPERSTRUCTURE**

32' RDWY.	45' SPAN	RIGHT
STANDARD SS-3245-R		



FILLET "f" AT EXT BEAMS



FILLET "f" AT INT BEAMS

See Steel Framing Standards for
Dead Load Deflection Diagram.

MODEL: As Built Loc 5 Sheet 2 (Sheet)
FILE NAME: c:\p\work\wv\dist\stevem.wood\0941673\0570114-SN-AS-Built-Loc5.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
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PLOT DATE = 1/4/2024	CHECKED -	REVISED -
	DATE -	REVISED -

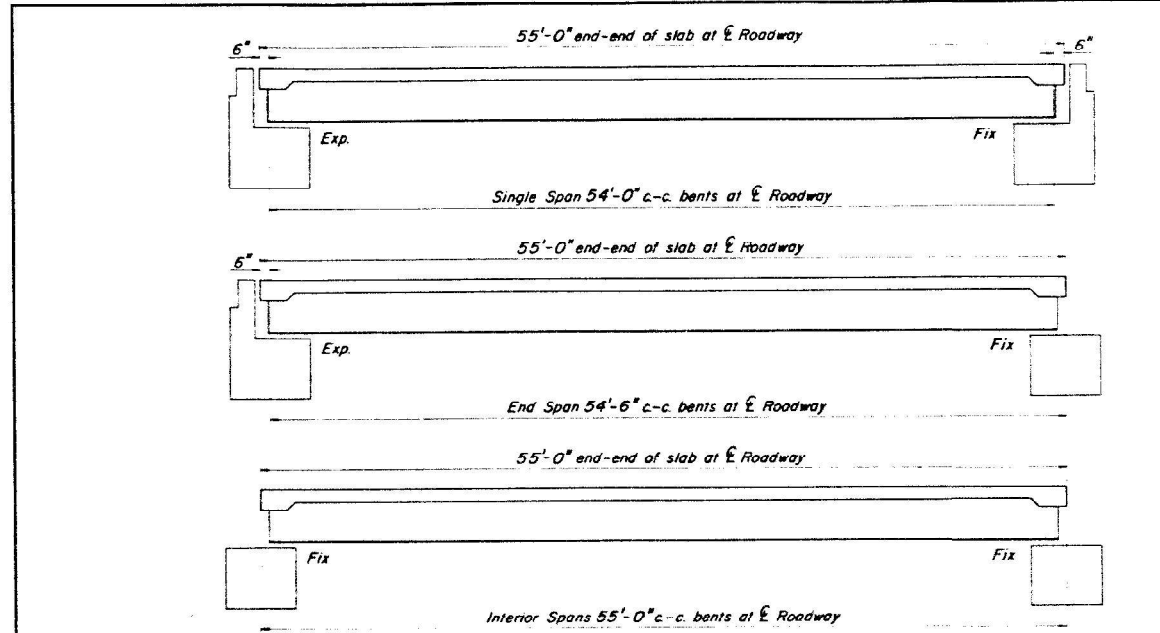
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS BUILT PLANS
LOCATION #5 S.N. 057-0200**

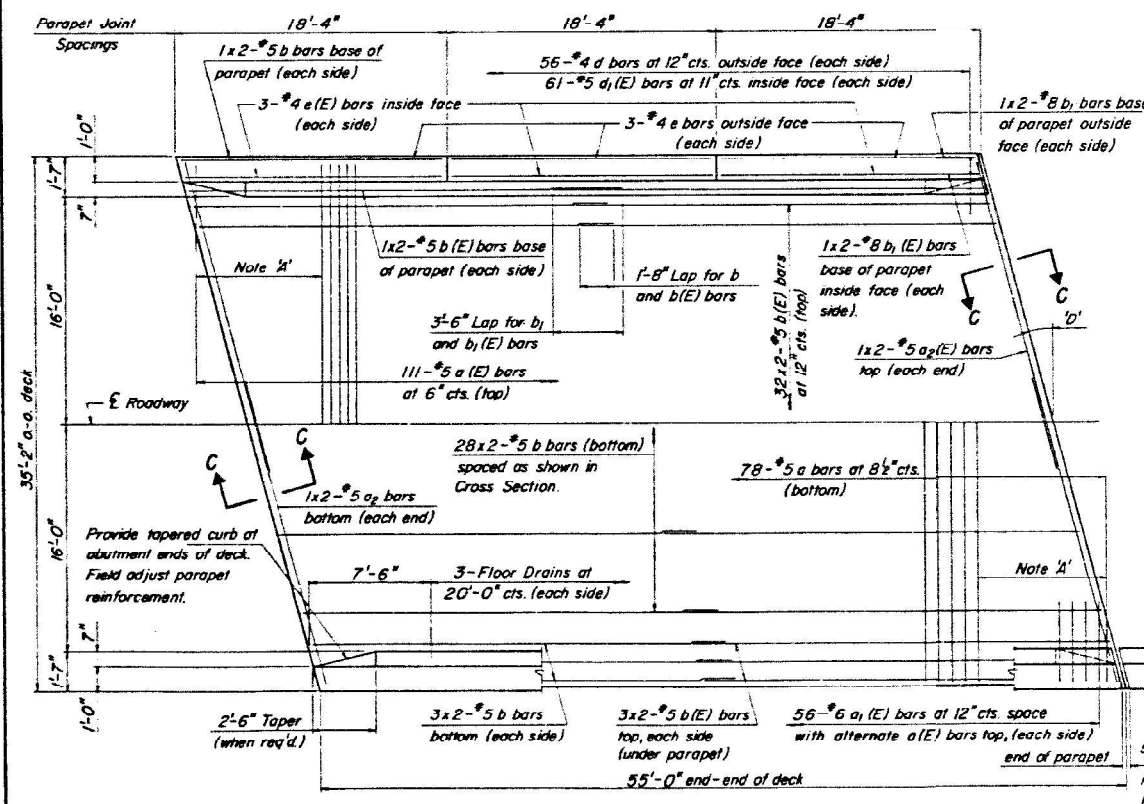
SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D5 BRIDGE PAINTING 2024-2		MCLEAN	35	23
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS FOR S.N. 057-0200
FOR INFORMATION ONLY



TYPICAL ELEVATIONS



PLAN
(D=Designated Skew Angle)

Illinois Department of Transportation

APPROVED SEPT 15, 1984

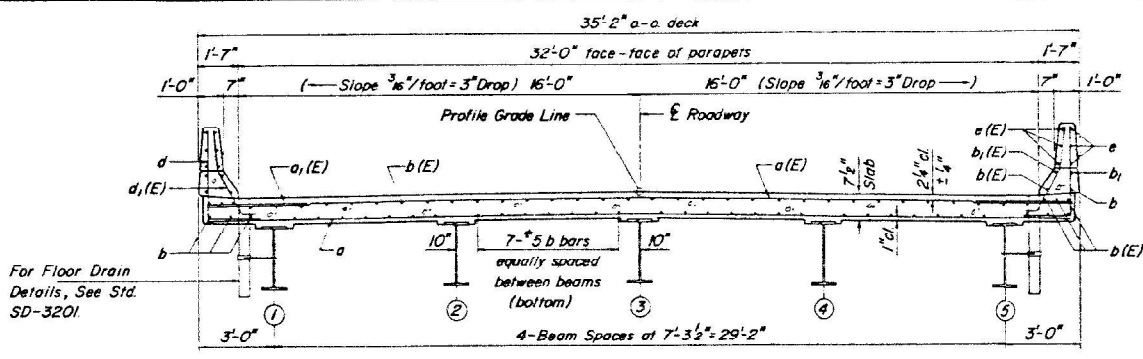
APPROVED JUL 1, 1988

Engineer of Design

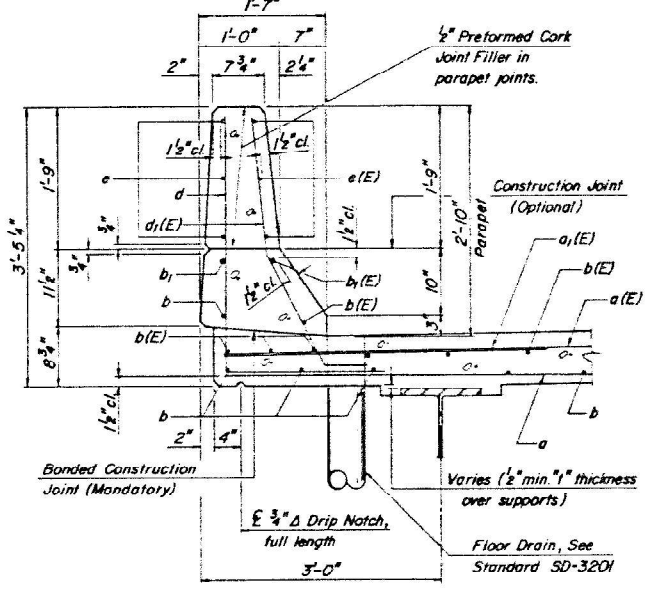
Bars indicated thus, 28x2-#5 etc. indicates 28 lines of bars with 2 lengths per line.

Note X:
Field cut a and a(E) bars to fit skew and use remainder of bars in opposite end.

METHOD FOR DETERMINING FILLET HEIGHT "f"
After all structural steel has been erected, elevations of the top flanges of each beam shall be taken at intervals not to exceed 10 feet. From these elevations, subtract the increment of deflection for these points determined from the "Dead Load Deflection Diagram". The elevation so attained subtracted from the theoretical top of slab elevations over each beam minus the slab thickness equals the fillet height "f" above the top of the beam.

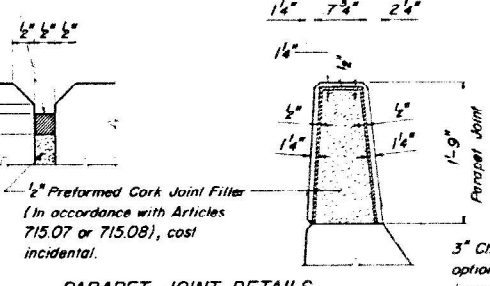


GROSS SECTION
(Looking Upstation)

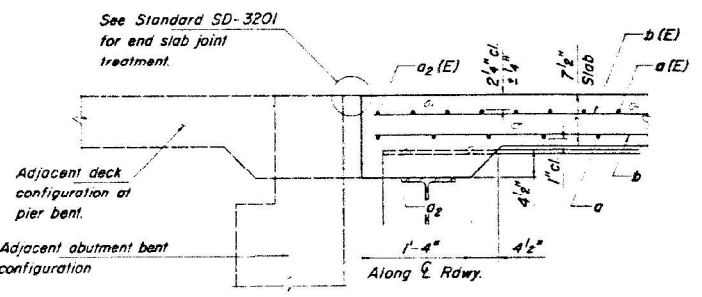


PARAPET SECTION

Two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer.



PARAPET JOINT DETAILS



SECTION C-C

BAR LIST FOR ONE SPAN

Bar	No.	Size	Length	Shape
a	78	#5	34'-7"	
a(E)	111	#5	34'-7"	
a1(E)	112	#6	4'-0"	
a2	4	#5	20'-8"	
a2(E)	4	#5	20'-8"	
b	72	#5	28'-2"	
b(E)	80	#5	28'-2"	
b1	4	#8	29'-7"	
b1(E)	4	#8	29'-7"	
d	112	#4	5'-2"	
d1(E)	122	#5	3'-11"	
e	18	#4	18'-0"	
e(E)	18	#4	18'-0"	

All reinforcement bars in the above table shall be epoxy coated.

QUANTITIES FOR ONE SPAN

Class X Concrete	59.2 Cu. Yds.
Reinforcement Bars	5930 Lbs.
Rein. Bars (Epoxy Coated)	8140 Lbs.
Floor Drains	6 Each
Protective Coat	241.7 Sq. Yds.

DESIGN STRESSES

$f_c = 3,500$ psi
 $f_y = 60,000$ psi

STEEL BEAM BRIDGES SUPERSTRUCTURE

32' RDWY.	55' SPAN	RIGHT
STANDARD SS-3255-R		

FILLET "f" AT EXT. BEAMS



FILLET "f" AT INT. BEAMS



MODEL: As Built Loc 5 Sheet 3 (Sheet) FILE NAME: c:\p\work\bristow\stevem.juoc@illinois.gov\d0941673\0570114-SHA-As_Built-Loc5.dgn

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DESIGNED	-
DRAWN	-
PLOT SCALE	= 0.16666833 / in.
CHECKED	-
PLOT DATE	= 1/4/2024
DATE	-
REVISED	-

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
REVISED	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

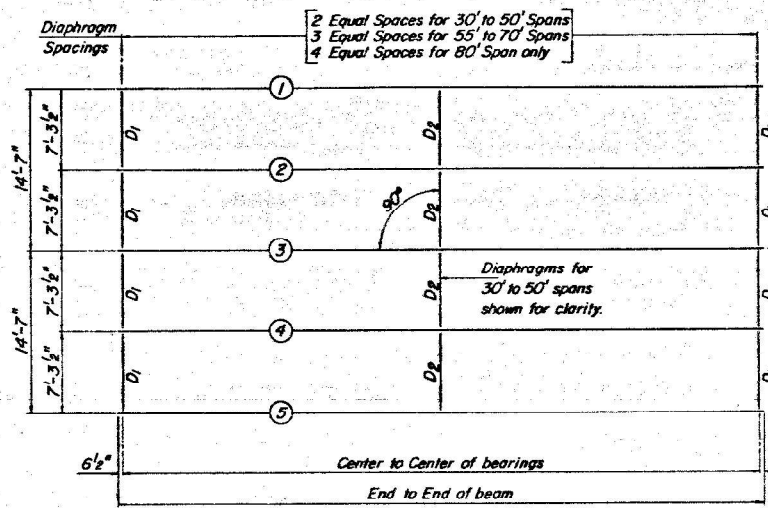
AS BUILT PLANS
LOCATION #5 S.N. 057-0200

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

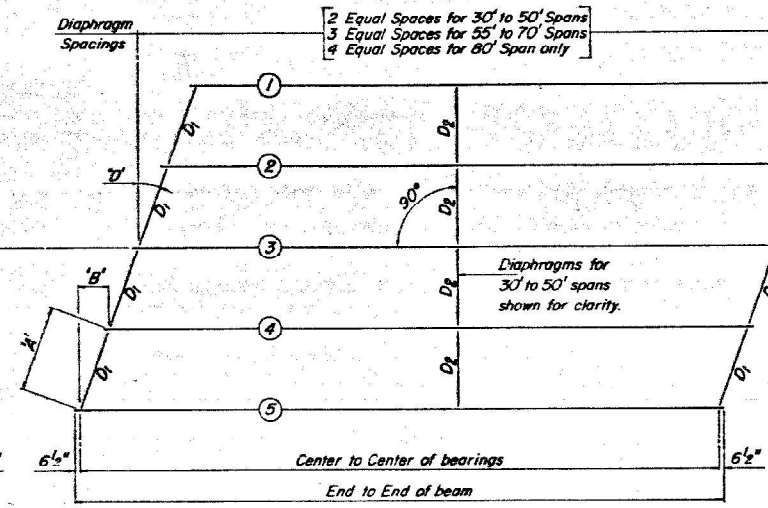
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	24
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

**AS-BUILT PLANS FOR S.N. 057-0200
FOR INFORMATION ONLY**

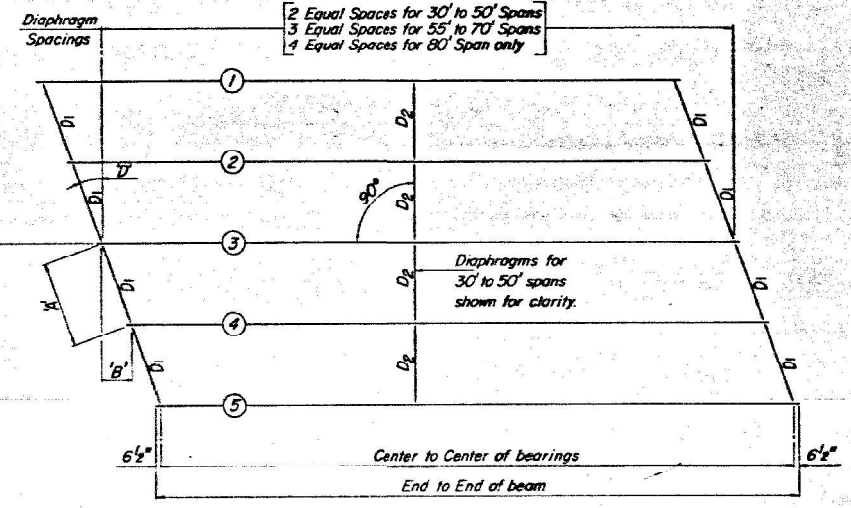
Span	Beam Size	Values for 'SD'		Ctk. - Ctk. Bearings	End-End Beam	No. of Diaphragms	Stud Shear Connector Spacings					Studs Per Line	Total Studs	Deflections					Calculated Weight by 'D'						Bearing Type	
		Exp.	Fixed				a	b	c	d	e			1/4 Pt.	1/2 Pt.	3/4 Pt.	0°	5°	10°	15°	20°	25°	30°	Exp.	Fixed	
30'	W27x84	3.357'	3.112'	28'-0"	29'-1"	8	NON-COMPOSITE							.008'	.013'	.008'	15163	15171	15192	15229	15284	15357	15453	EX-I	FX-III	
35'	W27x84	3.357'	3.112'	33'-0"	34'-1"	8	NON-COMPOSITE							.017'	.023'	.017'	17263	17271	17292	17329	17384	17457	17553	EX-I	FX-III	
40'	W27x84	3.357'	3.112'	38'-0"	39'-1"	8	12 - Spaces at 7"	12 - Spaces at 8"	12 - Spaces at 8"	12 - Spaces at 8"	12 - Spaces at 8"	2	610	.027'	.037'	.027'	19363	19371	19392	19429	19484	19557	19653	EX-II	FX-III	
45'	W27x84	3.357'	3.112'	43'-0"	44'-1"	8	9 - Spaces at 6"	8 - Spaces at 8"	28 - Spaces at 10"	8 - Spaces at 8"	9 - Spaces at 6"	2	630	.043'	.060'	.043'	21463	21471	21492	21529	21584	21657	21753	EX-II	FX-III	
50'	W27x84	3.357'	3.112'	48'-0"	49'-1"	8	12 - Spaces at 6"	15 - Spaces at 8"	16 - Spaces at 12"	15 - Spaces at 8"	12 - Spaces at 6"	2	710	.067'	.094'	.067'	23563	23571	23592	23629	23684	23757	23853	EX-III	FX-III	
55'	W27x102	3.389'	3.144'	53'-0"	54'-1"	8	12 - Spaces at 6"	12 - Spaces at 8"	30 - Spaces at 10"	12 - Spaces at 8"	12 - Spaces at 6"	2	790	.079'	.110'	.079'	31204	31211	31233	31270	31324	31397	31493	EX-III	FX-III	
60'	W27x114	3.405'	3.160'	58'-0"	59'-1"	8	18 - Spaces at 7"	8 - Spaces at 9"	30 - Spaces at 10"	8 - Spaces at 9"	18 - Spaces at 7"	2	830	.101'	.140'	.101'	37297	37305	37326	37363	37417	37491	37586	EX-III	FX-III	
70'	W27x146	3.413'	3.168'	68'-0"	69'-1"	8	21 - Spaces at 7"	17 - Spaces at 9"	18 - Spaces at 12"	17 - Spaces at 9"	21 - Spaces at 7"	2	990	.139'	.195'	.139'	54051	54058	54080	54117	54171	54244	54340	EX-VI	FX-VI	
80'	W27x178	3.449'	3.204'	78'-0"	79'-1"	8	21 - Spaces at 7"	19 - Spaces at 9"	25 - Spaces at 12"	19 - Spaces at 9"	21 - Spaces at 7"	2	1060	.196'	.274'	.196'	74674	74681	74703	74740	74793	74867	74962	EX-VI	FX-VI	



FRAMING PLAN (0° SKEW)



FRAMING PLAN (Lt Fwd Skew)
(D' = Designated Skew Angle)



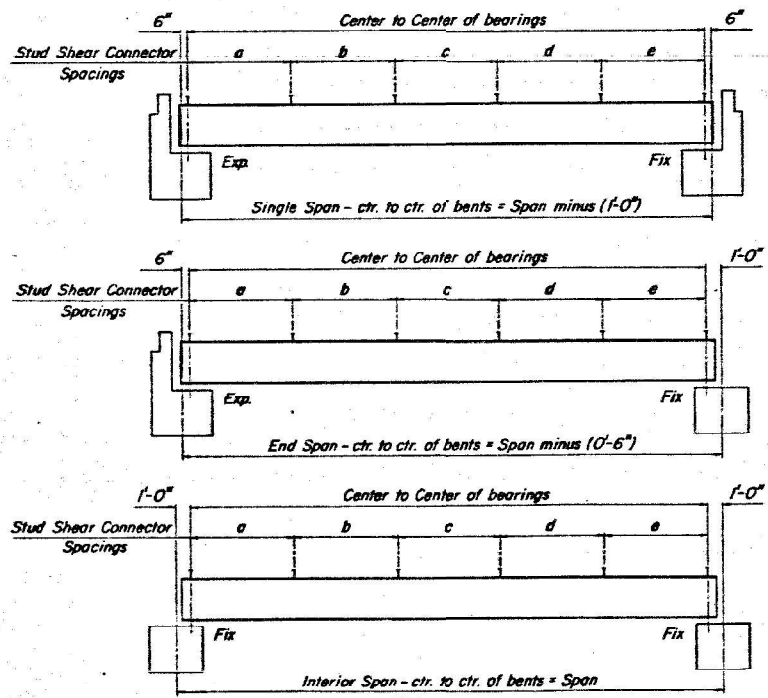
FRAMING PLAN (Rt Fwd Skew)
(D' = Designated Skew Angle)

DIMENSION 'A' & 'B'

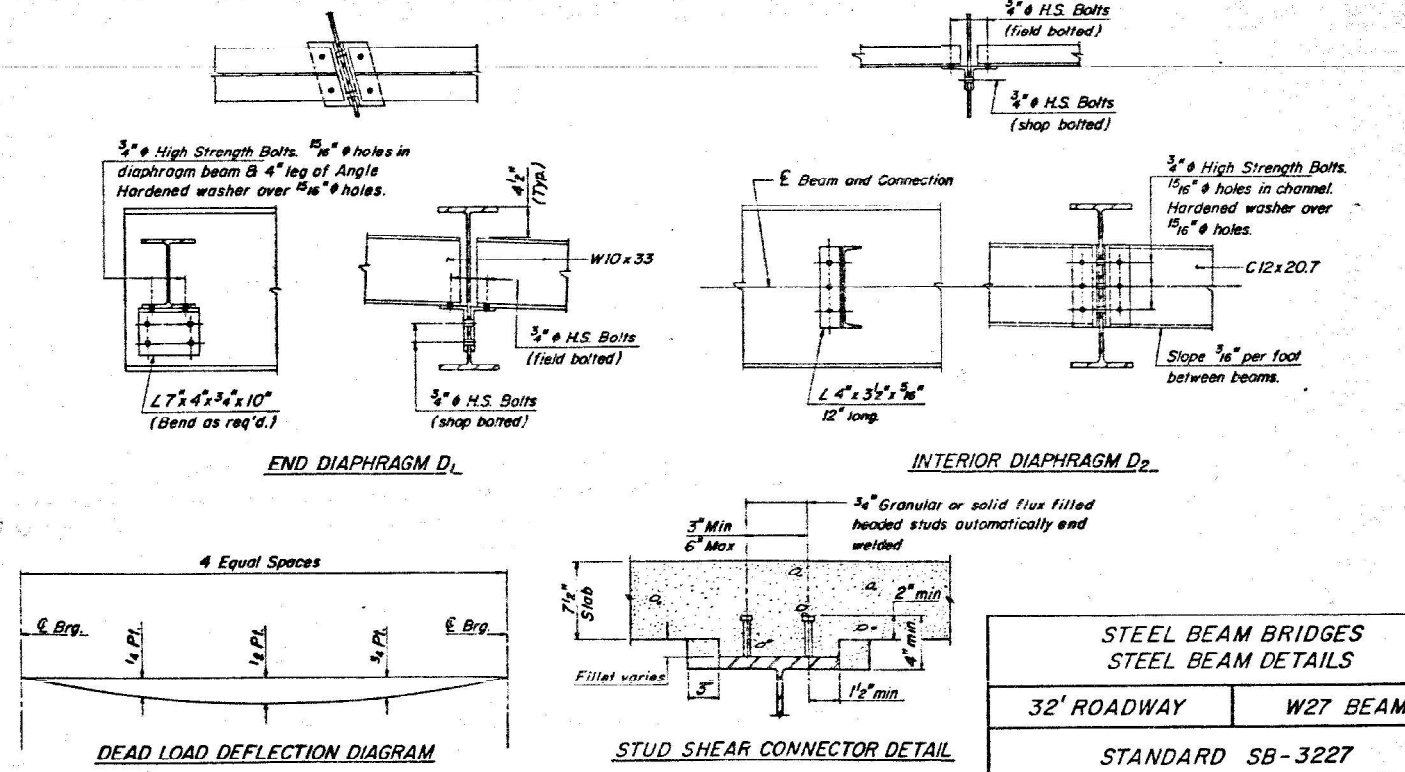
D'	A'	B'
5°	7'-3 1/8"	7'-5"
10°	7'-4 7/8"	7'-7 1/8"
15°	7'-6 1/8"	7'-10 1/8"
20°	7'-9 1/8"	8'-1 7/8"
25°	8'-0 9/8"	8'-4 13/16"
30°	8'-5 1/8"	8'-9 1/2"

DESIGN STRESSES
f_y = 50,000 psi
n = 9 (Composite)

Illinois Department of Transportation
APPROVED JULY 1, 1981
Engineer of Bridges and Structures
APPROVED JULY 1, 1981
Engineer of Design



TYPICAL ELEVATIONS



**STEEL BEAM BRIDGES
STEEL BEAM DETAILS**
32' ROADWAY | W27 BEAMS
STANDARD SB-3227

MODEL: As Built Loc 5 Sheet 4 (Sheet)
FILE NAME: c:\p\work\bristol\stern\jucod\illinois.gov\09416731D570H114-SHA-As_Built-Loc5.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833 / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

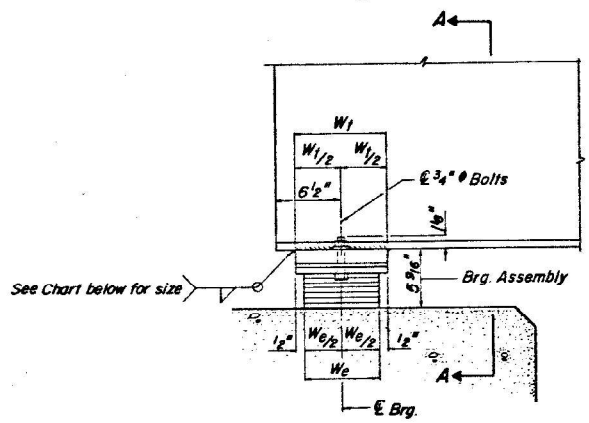
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS BUILT PLANS
LOCATION #5 S.N. 057-0200**

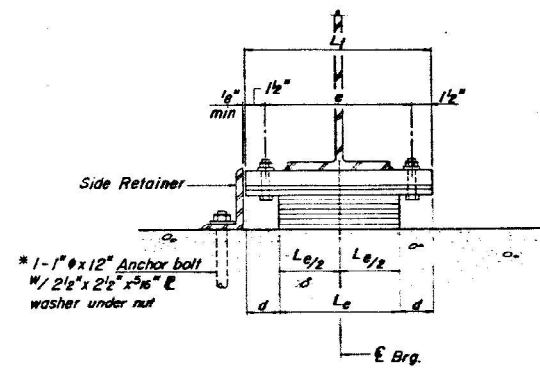
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	25
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

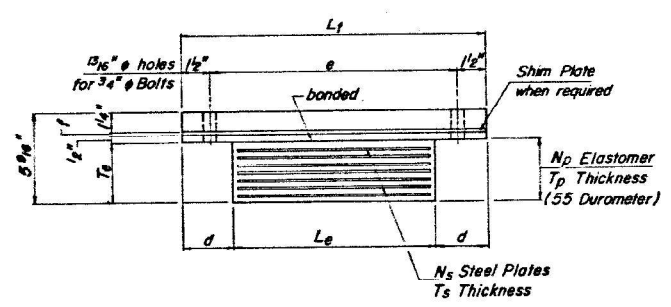
**AS-BUILT PLANS FOR S.N. 057-0200
FOR INFORMATION ONLY**



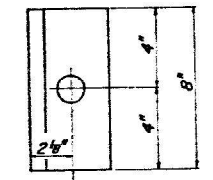
ELEVATION



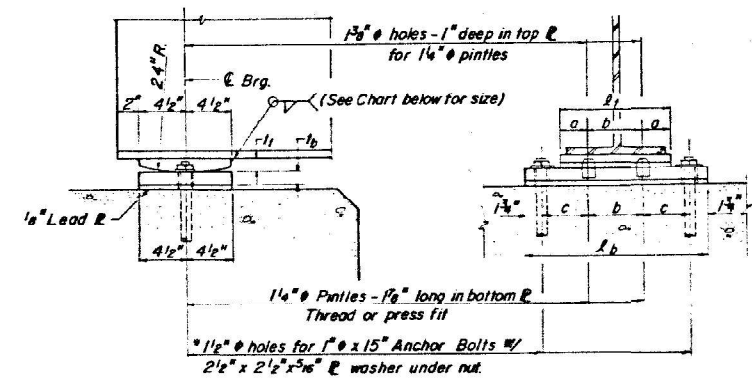
SECTION A-A



BEARING ASSEMBLY

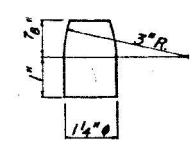


SIDE RETAINER



ELEVATION

SECTION



PINTLE

Brg Type	L1	L2	L3	L4	L5	a	b	c	Tot. Weight**
FX-I	8"	15 1/2"	5/16"	14"	1 1/4"	2"	4"	4"	94 Lbs.
FX-II	10"	17 1/2"	5/16"	14"	1 1/4"	2 1/2"	5"	4 1/2"	108 Lbs.
FX-III	11 1/2"	19"	5/16"	14"	1 1/4"	3"	5 1/2"	5"	118 Lbs.
FX-IV	13"	20 1/2"	5/8"	14"	1 1/4"	3 1/4"	6 1/2"	5 1/4"	129 Lbs.
FX-V	16"	23 1/2"	5/8"	14"	1 1/4"	4"	8"	6"	149 Lbs.

**Total weight of one assembly includes Top Plate, Bottom Plate, Anchor Bolts, Plate Washers, and Lead Plate.

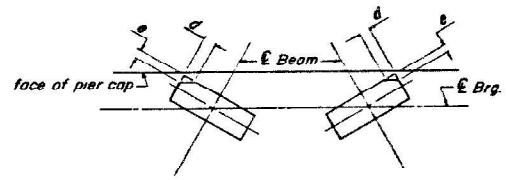
Brg. Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28	L29	L30	L31	L32	L33	L34	L35	L36	L37	L38	L39	L40	L41	L42	L43	L44	L45	L46	L47	L48	L49	L50	L51	L52	L53	L54	L55	L56	L57	L58	L59	L60	L61	L62	L63	L64	L65	L66	L67	L68	L69	L70	L71	L72	L73	L74	L75	L76	L77	L78	L79	L80	L81	L82	L83	L84	L85	L86	L87	L88	L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100
EX-I	10"	7"	18"	8"	5/16"	3/8"	8	14 ga	7	3 1/2"	4"	15"	5/16"	66 lbs.	Grades > 4.0%																																																																																					
EX-II	12"	7"	18"	8"	5/16"	3/8"	8	14 ga	7	3 1/2"	3"	15"	5/16"	66 lbs.	Grades > 4.0%																																																																																					
EX-III	12"	9"	18"	10"	5/16"	3/8"	8	3/32"	7	3 5/8"	3"	15"	3/16"	76 lbs.	Grades > 2.5%																																																																																					
EX-IV	12"	9"	19"	10"	5/16"	3/8"	8	3/32"	7	3 3/8"	3 1/2"	16"	3/16"	80 lbs.	Grades > 2.5%																																																																																					
EX-V	12"	9"	21"	10"	3/8"	3/8"	8	3/32"	7	3 5/8"	4 1/2"	18"	3/16"	89 lbs.	Grades > 2.5%																																																																																					
EX-VI	14"	10"	21"	11"	3/8"	7/16"	7	1/8"	6	3 15/16"	3 1/2"	18"	-	85 lbs.	Grades > 2.0%																																																																																					

* Note: After beams have been erected, holes for Side Retainers shall be drilled and Anchor Bolts grouted in place.

TYPE EX EXPANSION BEARINGS

NOTE: Anchor Bolts at fixed Brgs. may be built into the masonry or drilled and grouted into place after beams are set.

TYPE FX FIXED BEARINGS



**BEARING CLIP DIM.
(Bottom Plate)**

Bearing	d	a
FX-IV	7/8"	1/2"
FX-V	2 3/8"	1 3/8"

Clip plates for 'D's > 20"

Illinois Department of Transportation
 APPROVED: JULY 1, 1981
 Engineer of Bridges and Structures
 APPROVED: JULY 1, 1978
 Engineer of Design

NOTES
 The calculated S11. Wt., for the 1/4" plate and Shim E. (when req'd.), is to be included with the calculated weight of Structural Steel.
 Provide Side Retainers, Plate washers, and Anchor Bolts at Expansion Abutments only. Cost is incidental.
 For grades greater than shown in table, the top plate of the brg. shall be tapered to match grade. Maintain 1/4" thickness at E of brg.

STEEL BEAM BRIDGES
EXPANSION AND FIXED BEARINGS
STANDARD SD-3202

MODEL: As Built Loc 5 Sheet 5 (Sheet)
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PLOT SCALE = 0.16666833 / in.	DRAWN -	REVISED -
PLOT DATE = 1/4/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS BUILT PLANS
LOCATION #5 S.N. 057-0200**

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	26
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS FOR S.N. 057-218

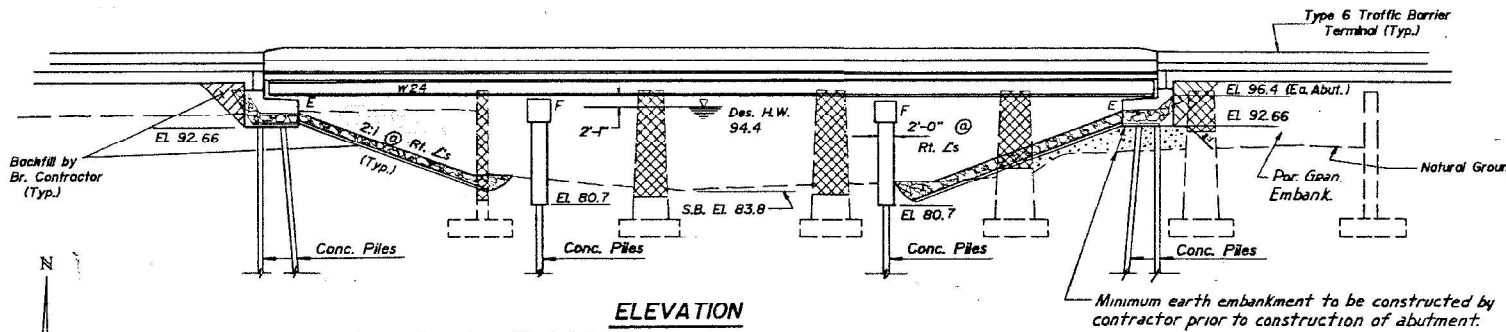
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

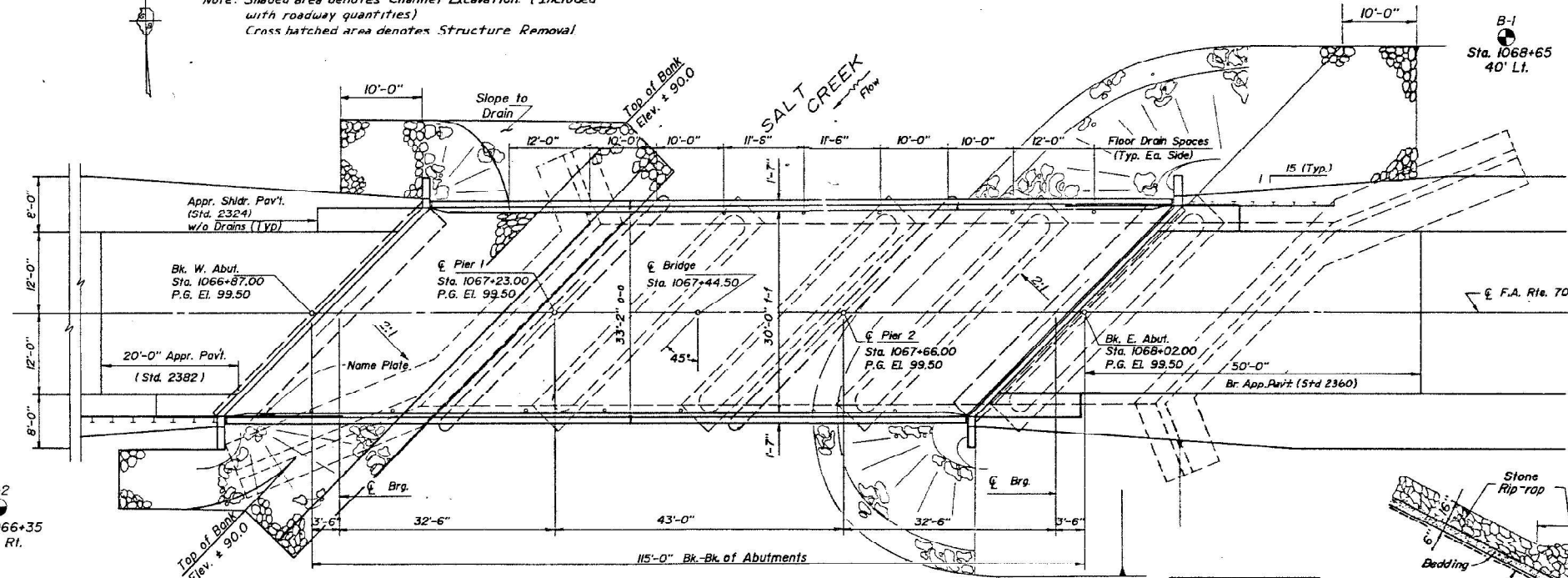
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 709		McLEAN	36	26
FHWA REG. NO. 5 ILLINOIS FED. AID PROJECT-				
SHEET 2 OF 15 SHEETS				

B.M. Chiseled square in Northwest Hub Guard of Existing Bridge Elev. 100.00 (Assumed)

Exist. Struct.: # 057-0099. Five span R.C. Slab on solid R.C. piers and R.C. closed abutments. Bridge is 26'-4" x 114'-2". Built 1933. To be removed. No salvage. Traffic to be detoured during construction.



Note: Shaded area denotes Channel Excavation. (Included with roadway quantities)
Cross hatched area denotes Structure Removal

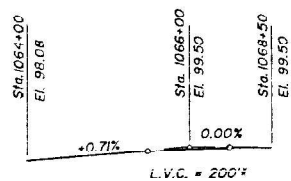


PLAN

WATERWAY INFORMATION

Drainage Area: 31.9 sq. mi. Low Grade Elev. 96.2 @ Sta. 1059+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	50	2419	538	458	94.4	0.6	0.7	95.0	95.1
Base	100	2760	596	469	94.7	0.6	1.0	95.3	95.7
Max. Calc.	500	3535	644	519	95.4	0.9	1.4	96.3	96.8



PROFILE GRADE FA 709 *

* Overlay existing

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

John W. Cloud
Registered Structural Engineer

STA. 1067+44.50
BUILT 198 BY
STATE OF ILLINOIS
FA RTE 709 SEC 103BR
LOADING HS 20
STR. NO. 057-0218

NAME PLATE

(See Std. 2113)

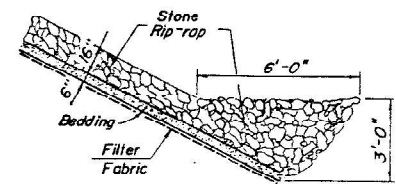
DESIGN STRESSES

$f_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinf.)
 $f_y = 36,000$ p.s.i. (Str. St. M183)

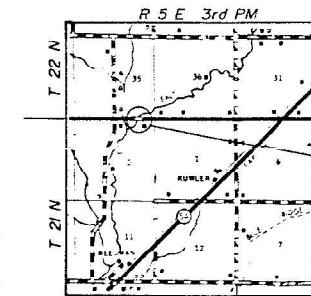
LOADING HS20-44

Design Specifications : 1983 A.A.S.H.T.O. & subsequent Interims (Thru 1986).

Allow 25 # / Sq.Ft. for future surface.



STONE RIP-RAP ANCHOR DETAIL



LOCATION MAP

GENERAL NOTES

- (1) Fasteners shall be high strength bolts AASHTO M-164. Bolts 3/4" ϕ , open holes 5/8" ϕ , or 1" ϕ , open holes 1 1/8" ϕ , unless otherwise noted.
- (2) Calculated weight of structural steel equals 58,133 pounds.
- (3) The Zinc Silicate and Vinyl Paint System shall be used for shop and field painting of structural steel, except where otherwise noted.
- (4) Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange of 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.
- (5) 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 steel wide flange beams and splice material.
- (6) Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
- (7) Bearing seat surfaces shall be constructed or adjusted to the design elevations within a tolerance of 1/8". Adjustments shall be made by grinding the surface, or by shimming the bearing. Two 1/2" 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 the top plate shall be provided and placed as detailed.
- (8) For Boring Data see sheet No. 14.
- (9) Anchor bolts shall be set before bolting diaphragms over supports.
- (10) The Contractor shall drive one (1) metal shell test pile in permanent location as directed by the Engineer at the West Abutment, at Pier 1 and 2 and at the East Abutment. Test piles shall be driven before ordering the remainder of piles.
- (11) The concrete, for bridge floors finished in accordance with Article 503.15 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along center line of bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.
- (12) All structural steel fabricators performing work on the main load carrying components of steel structures shall be certified under Category I (AISC) of the Quality Certification Program.

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUB	SUPER	TOTAL
Removal of Existing Structures	Each			1
Class X Concrete	Cu. Yd.	85.6		85.6
Class X Concrete - Superstructure	Cu. Yd.		114.8	114.8
Furnish and Erect Structural Steel	Lmo Sum		1	1
Reinforcement Bars	Pound	7350		7350
Reinforcement Bars (Epoxy Coated)	Pound		25,774	25,774
Protective Coat	Sq. Yd.	500		500
Floor Drains	Each		14	14
Furnishing Metal Pile Shells 12"	Lin. Ft.	584		584
Driving and Filling Shells	Lin. Ft.	1082		1082
Test Pile Metal Shells	Each	4		4
Class X Concrete Encasement	Cu. Yd.	14.0		14.0
Stone Riprap, Class A4	Sq. Yd.			715
Name Plates	Each		1	1
Elastomeric Bearing Assembly, Type 1	Each		10	10
Neoprene Expansion Joint 2"	Lin. Ft.		88	88
Filter Fabric for use with Riprap	Sq. Yd.			715
Structure Excavation	Cu. Yd.	100		100
Furnishing Metal Pile Shells 14"	Lin. Ft.	498		498

GENERAL PLAN & ELEVATION

FA RTE. 709 over SALT CREEK
* SECTION 103BR
McLEAN COUNTY
STATION 1067+44.50
S.N. 057-0218

Robert Bradford, Jr.
CONSULTING ENGINEERS

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
100 STEVENSON DR. 271/25-648 SPRINGFIELD, ILL.

MODEL: As Built Loc6 Sheet 1 (Sheet)
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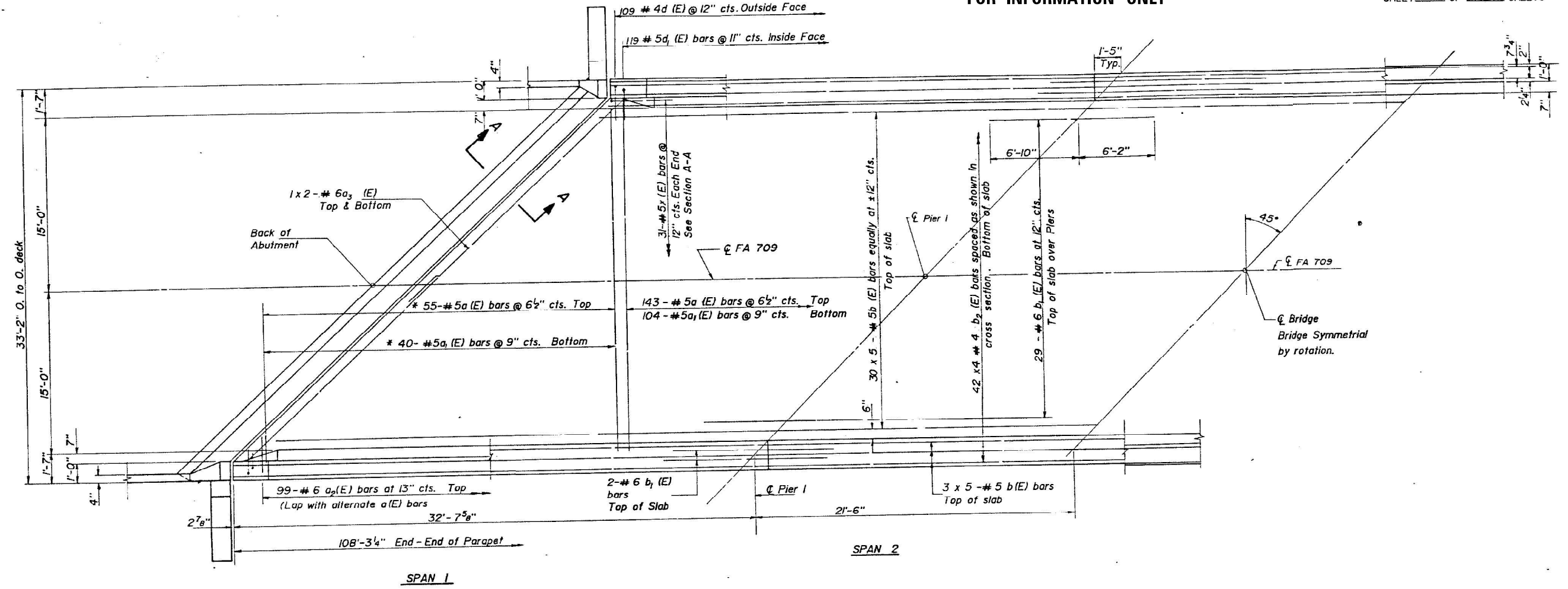
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	DRAWN -	REVISED -
PLOT SCALE = 0.16666833 / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #6 S.N. 057-0218

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

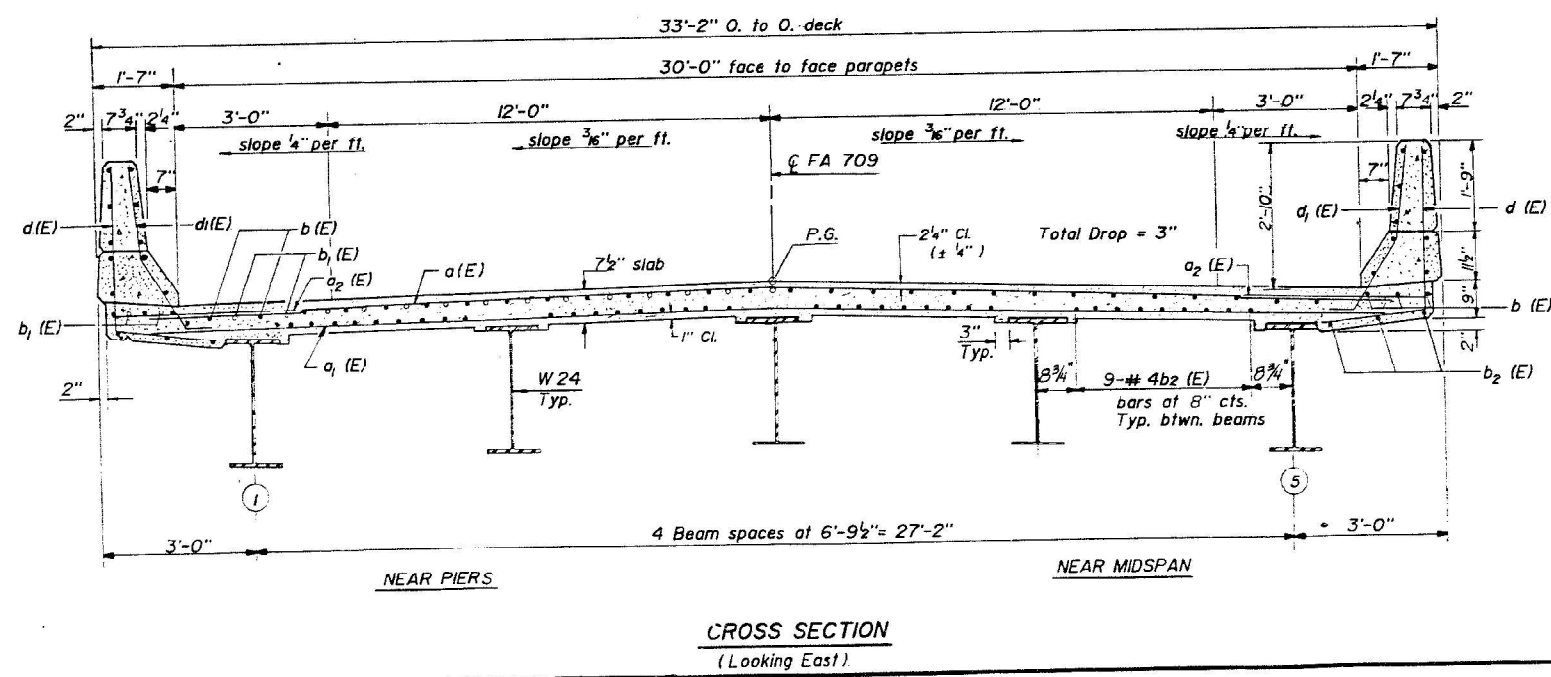
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VAR. D5	BRIDGE PAINTING 2024-2	MCLEAN	35	27
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				



* Order a(E) & a₁(E) bars full length.
Cut to fit skew and use remainder of
bars in opposite end.

For Section A-A see
Sheet No. 4

Notes: See sheet # 4 for superstructure details
and Bill of Materials.
Reinforcement bars designated (E) shall be
epoxy coated.
Bars indicated thus 20 x 3# 5 etc. indicate
20 lines of bars with 3 lengths per line.



SUPERSTRUCTURE
FA RTE 709 SEC 103BR
STA 1067+44.50
M^cLEAN CO.

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
309 STEVENSON DR. 271/529-6600 SPRINGFIELD, IL

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #6 S.N. 057-0218

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

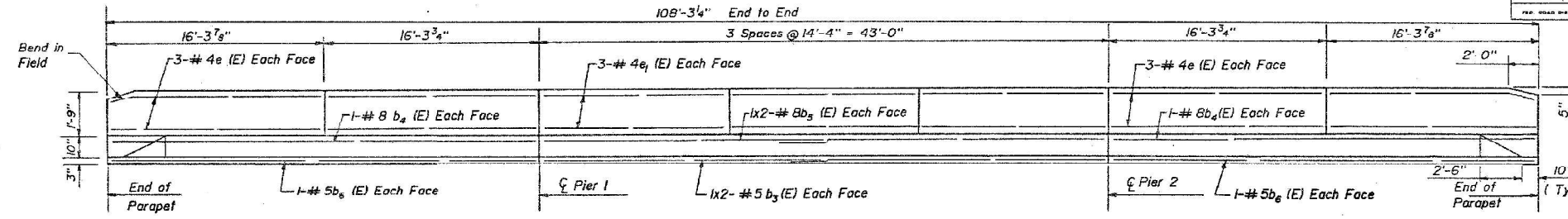
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VAR. D5 BRIDGE PAINTING 2024-2		MCLEAN	35	28
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

MODEL: As Built Loc6 Sheet 2 (Sheet)
FILE NAME: c:\p\work\wv\stevens.wood\illinois\p\09416731D570H14-SN-As_Built-Loc6.dgn

AS-BUILT PLANS FOR S.N. 057-218
FOR INFORMATION ONLY

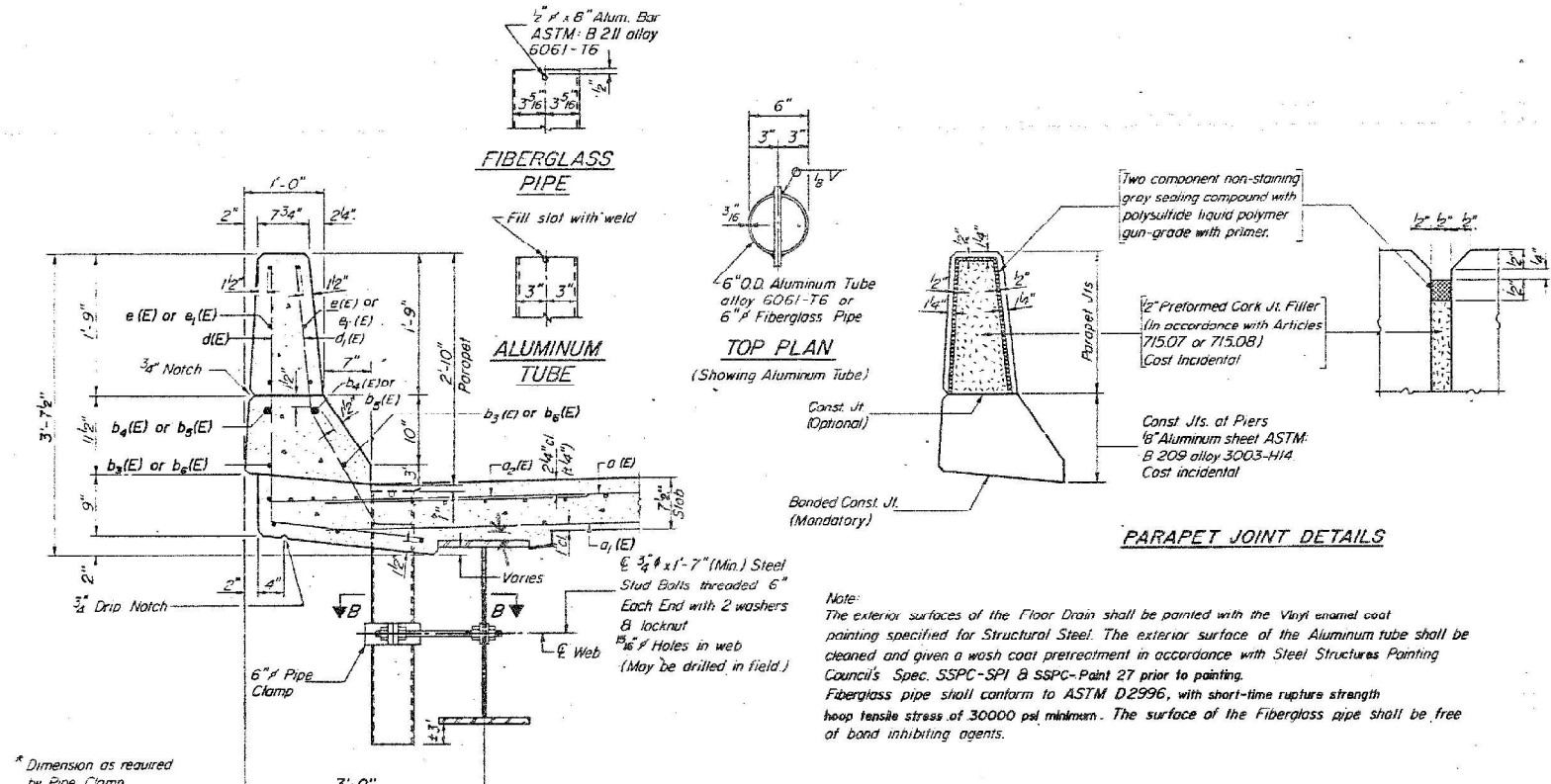
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709	M'LEAN			41



SHEET 5 OF 15 SHEETS

INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

Note:
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 wash coat pretreatment in accordance with Steel Structures Painting Council's Spec. SSPC-SPI 8 SSPC-Paint 27 prior to painting. Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30000 psi minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	202	#5	30'-6"	
a1(E)	146	#5	31'-0"	
a2(E)	202	#6	4'-0"	
a3(E)	8	#6	23'-0"	
b1(E)	180	#5	23'-0"	
b1(E)	58	#6	13'-0"	
b2(E)	168	#4	28'-0"	
b3(E)	8	#5	22'-2"	
b4(E)	8	#8	32'-4"	
b5(E)	8	#8	23'-3"	
b6(E)	8	#5	32'-4"	
d(E)	218	#4	5'-4"	L
d1(E)	238	#5	4'-1"	L
e(E)	48	#4	16'-0"	
e1(E)	36	#4	14'-0"	
X(E)	62	#5	4'-1"	
Reinforcement Bars (Epoxy Coated)		Lbs.	25,774	
Class X Concrete Superstructure		Cu Yds	114.8	

Reinforcement bars designated (E) shall be epoxy coated.

SUPERSTRUCTURE DETAILS

FA ROUTE 709
SECTION 103BR M'LEAN CO.
STA. 1067+44.50

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1809 STEVENSON DR. 217/529-6600 SPRINGFIELD, IL

* Dimension as required by Pipe Clamp

* Blockout Dimensions to be Determined by Contractor.

** Place top a3(E) bars in back of expansion device anchor ball if req'd. to maintain 1" (± 1/8") clear.

MODEL: As Built Loc6 Sheet 3 (Sheet)
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	DRAWN -	REVISED -
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PLOT DATE = 1/4/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #6 S.N. 057-0218

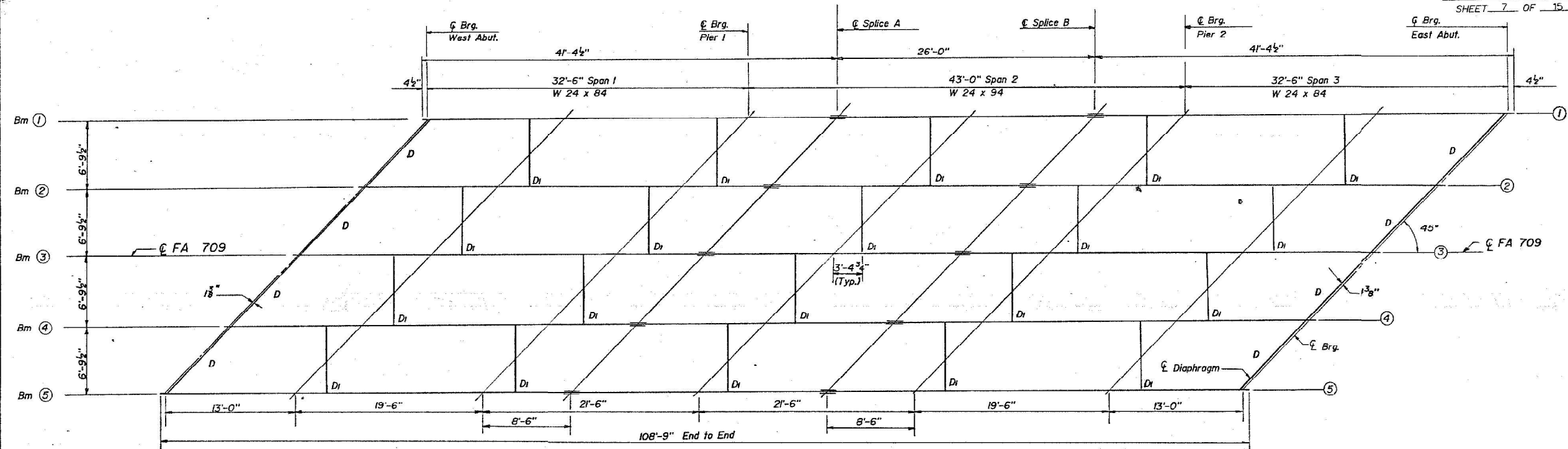
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

**AS-BUILT PLANS FOR S.N. 057-218
FOR INFORMATION ONLY**

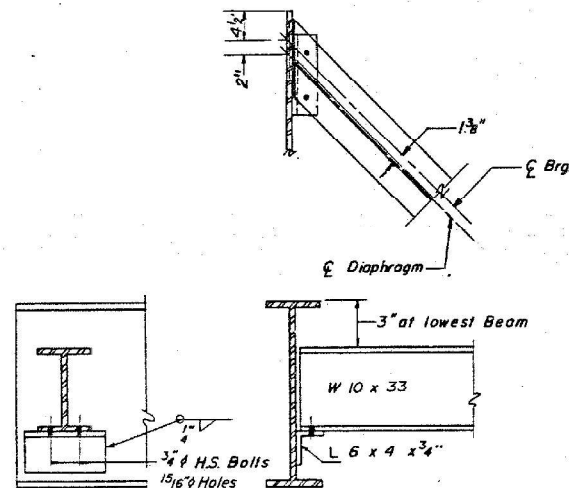
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709		M ^o LEAN	43	43
FHWA REG. NO. 5 ILLINOIS FED. AID PROJECT -				
SHEET 7 OF 15 SHEETS				

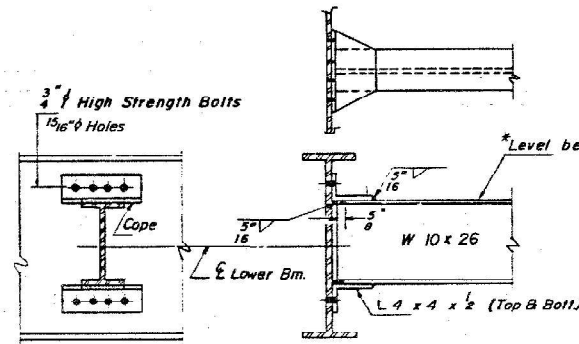


FRAMING PLAN
(All Beams NTR)

(1) NTR - Must conform to Supplemental Notch Toughness Requirements Zone 2. See General Notes Sheet No 1.



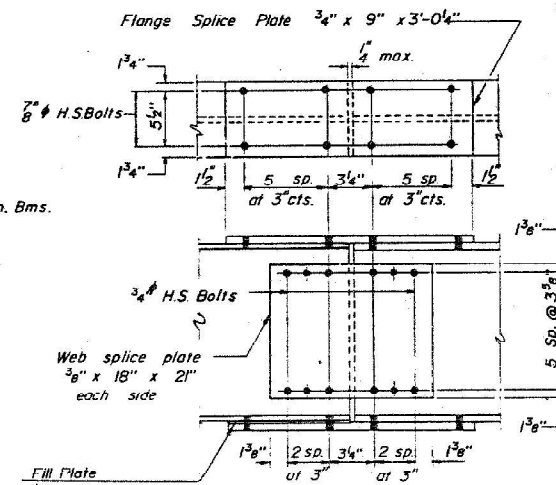
DIAPHRAGM D
8 Required



DIAPHRAGM D
20 Required

Note: Two hardened washers shall be required over all 1 5/16" holes in diaphragm connectors.

Note: Diaphragms D are offset from C Brg. See Section A-A, Sheet 4



SPLICE
(NTR)

STRUCTURAL STEEL
FA RTE 709 (US 36)
SEC 103 BR M^o LEAN CO.
STA. 1067+44.50

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
809 STEVENSON DR. 217/529-4466 SPRINGFIELD, IL

MODEL: As Built Loc6 Sheet 4 (Sheet)
FILE NAME: c:\p\work\wv\rd\stevenson.wood@illinois.gov\0941673\0570114-SN-As_Built-Loc6.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN -	REVISED -
PLOT DATE = 1/4/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #6 S.N. 057-0218

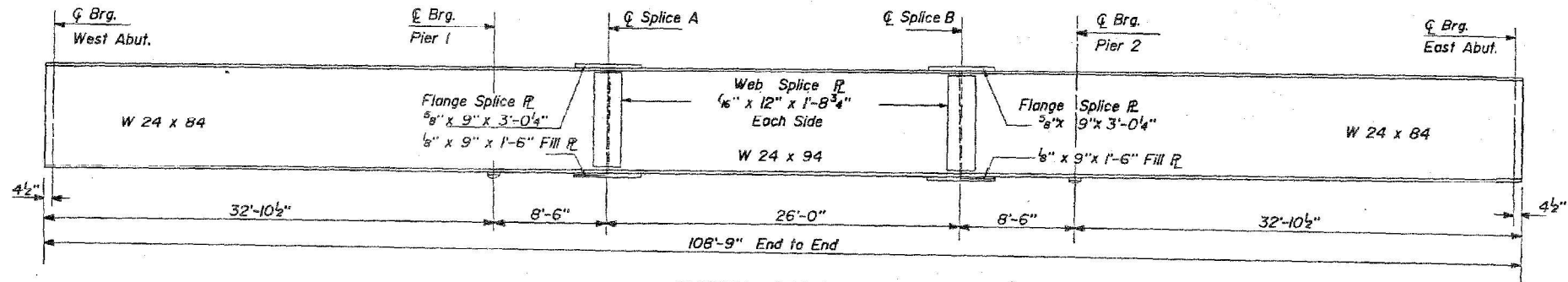
SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	30
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

**AS-BUILT PLANS FOR S.N. 057-218
FOR INFORMATION ONLY**

ROUTE	SECTION	COUNTY	SHEETS	NO.
709		MCLEAN	44	
FHWA PROJ. NO. 5 ILLINOIS FED. AID PROJECT				

SHEET 8 OF 15 SHEETS



TYPICAL BEAM ELEVATION

MOMENT TABLE - Symmetrical 3 Span (Non-composite)

INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1, 0.6 Sp. 3	PIER	0.5 Span 2
I_x (in ⁴)	2370	2370	2700
S_x (in ³)	196	196	222
Z (in ³)	224	224	254
Q (K/ft)	1.071	1.071	1.082
M_D (K)	73.7	-155.2	95.1
M_L (K)	160.9	-141.8	189.7
M_{Imp} (K)	48.3	-42.6	56.9
$f_s (M_L + I)$ (K)	348.7	-307.3	411.0
M_u (K)	549.1	-601.2	657.9
M_u (K)	672	672	762
f_s non-comp (k.s.i.)	4.51	-9.50	5.14
f_s (L + I) (k.s.i.)	21.34	-18.81	22.21
f_s (Overload) (k.s.i.)	25.85	-28.31	27.35

SYMBOLS

I_x and S_x are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).

f_s (Total) is the sum of the stresses due to $1.3(M_L + f_s (M_L + I))$

f_s (Overload) is the sum of the stresses due to $M_L + f_s (M_L + I)$

M_D - Moment due to dead loads.

M_L - Moment due to live load.

M_{Imp} - 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

Loc. Beam	West Abut.	Pier 1	Splice A	Splice B	Pier 2	East Abut.
1	98.55	98.55	98.55	98.55	98.55	98.55
2	98.67	98.67	98.67	98.67	98.67	98.67
3	98.77	98.77	98.77	98.77	98.77	98.77
4	98.67	98.67	98.67	98.67	98.67	98.67
5	98.55	98.55	98.55	98.55	98.55	98.55

TOP OF W ELEVATIONS

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R_L (K)	12.6	45.5
R_R (K)	29.8	50.0
$Imp.$ (K)	8.9	15.0
R_{TOTAL} (K)	51.3	110.5

DESIGN DATA TABLES

* M_u = Full Plastic Moment Capacity for Compact, Braced section.

$$M_u \text{ (Applied Moment)} = 1.3 [M_D + f_s (M_L + I)]$$

STRUCTURAL STEEL

FA RTE 709 (U.S. 36)
SEC 103 BR MCLEAN Co.
STA. 1067+44.50

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1025 STEVENSON DR. 217/525-6666 SPRINGFIELD, IL

MODEL: As Built Loc6 Sheet 5 (Sheet)
FILE NAME: c:\p\work\wv\stevenson.wood\illinois\p\09416731D570H14-Sht-As_Built-Loc6.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

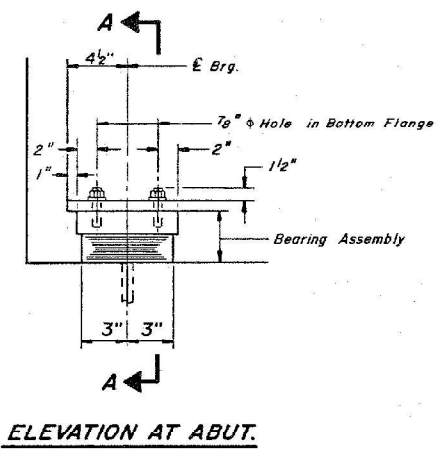
**AS-BUILT PLANS
LOCATION #6 S.N. 057-0218**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

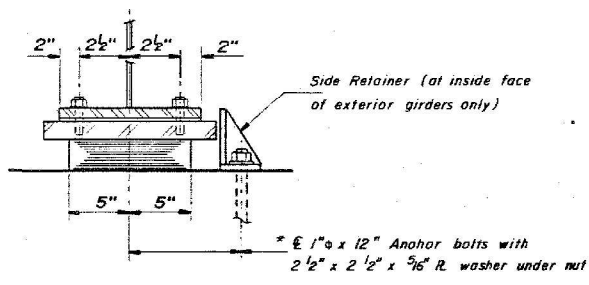
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	31
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

**AS-BUILT PLANS FOR S.N. 057-218
FOR INFORMATION ONLY**

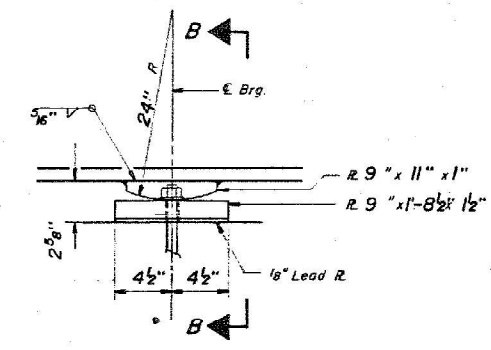
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
709		M ^c LEAN	45	
FHWA REG. NO. 5 ILLINOIS FED. AID PROJECT-				
SHEET 9 OF 15 SHEETS				



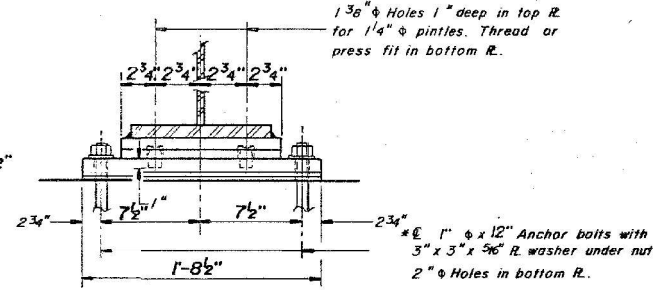
ELEVATION AT ABUT.



SECTION A-A



ELEVATION AT PIER

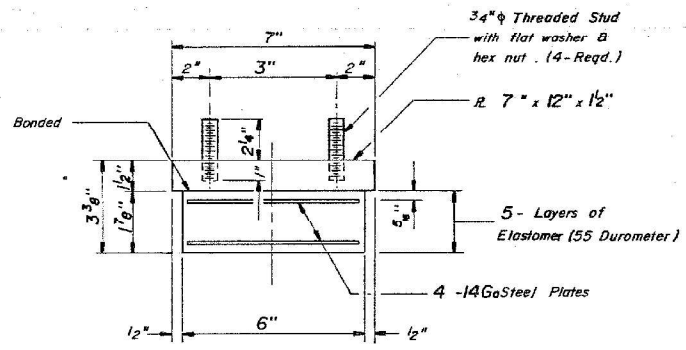


SECTION B-B

TYPE I ELASTOMERIC EXP BRG.

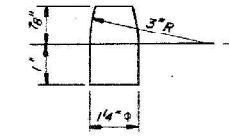
* NOTES: Anchor bolts at fixed bearings may be built into the masonry.
See sheet # 9 for Anchor Bolt installation.

FIXED BEARING

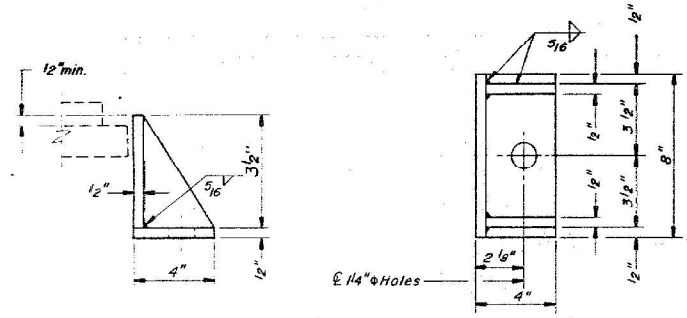


BEARING ASSEMBLY

NOTES: 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.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	10

BEARINGS

FA RTE 709
SEC. 103BR M^cLEAN CO.
STA. 1067+44.50

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1202 STEVENSON DR. 217/525-6666 SPRINGFIELD, IL

MODEL: As Built Loc6 Sheet 6 (Sheet)
FILE NAME: c:\p\work\wv\colstevan.wood@illinois.gov\d0941673\0570114-SN-As_Built-Loc6.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS
LOCATION #6 S.N. 057-0218**

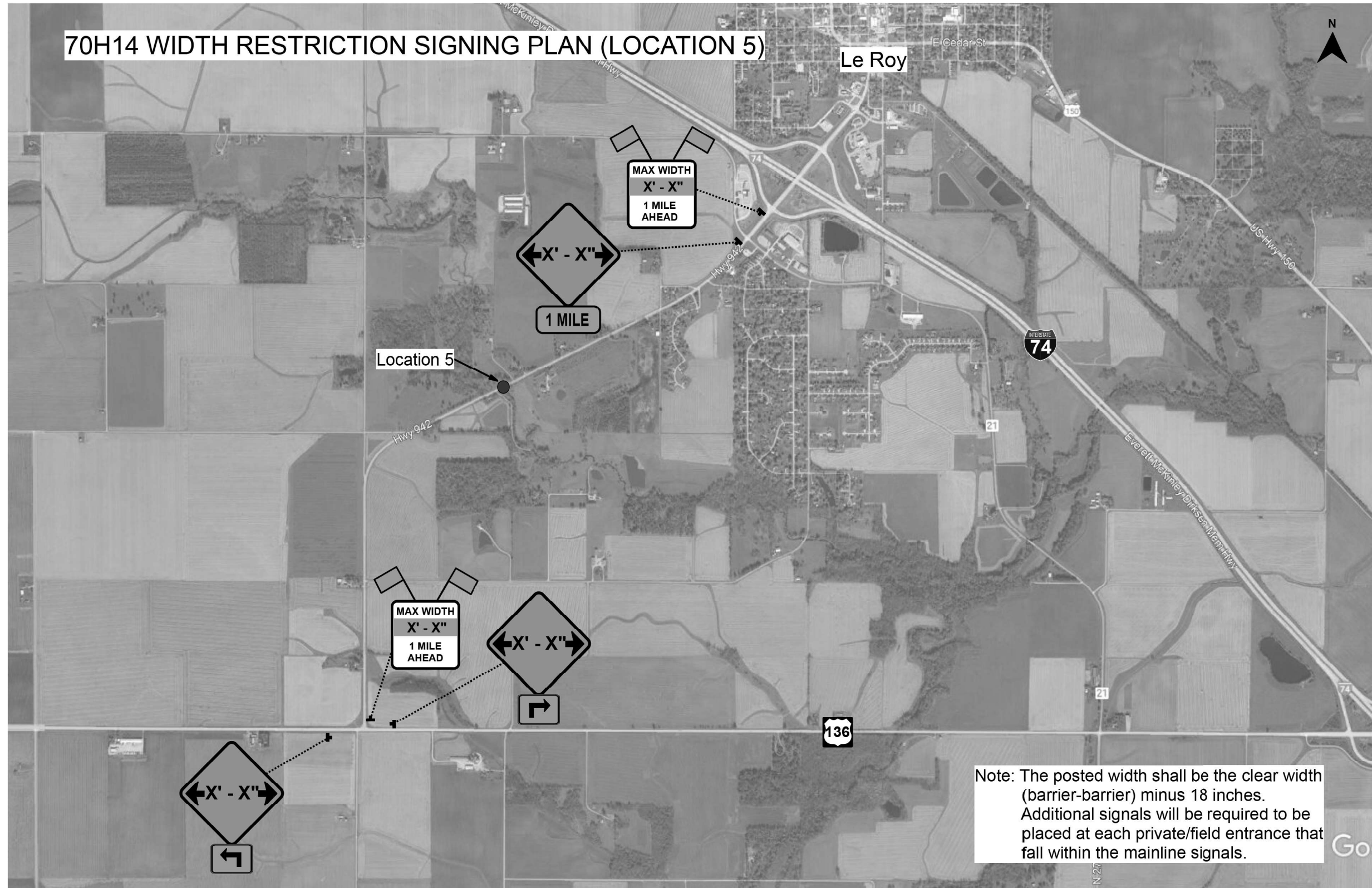
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	32
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				

**WIDTH RESTRICTION SIGNING
LOCATION #5 S.N. 057-0200**



70H14 WIDTH RESTRICTION SIGNING PLAN (LOCATION 5)



NOTE: WIDTH RESTRICTION SIGNING ONLY REQUIRED IF TEMPORARY CONCRETE BARRIERS ARE USED FOR TRAFFIC CONTROL AT LOCATION #5

MODEL: WRS-1 [Sheet]
FILE NAME: c:\p\work\width\stevenson.wood@illinois.gov\09416731D570H14-Sign-Width-Restriction.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833 1/In.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

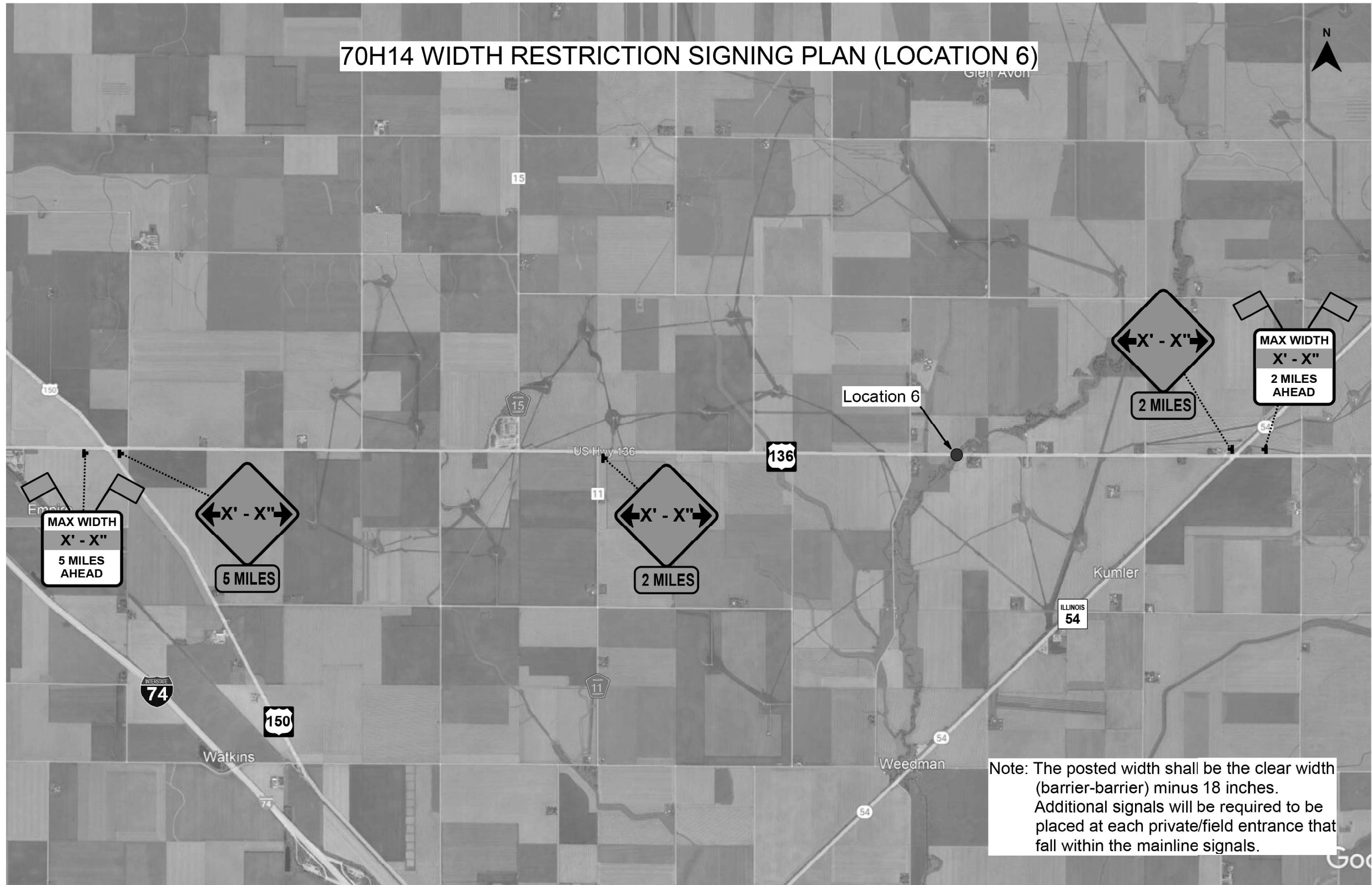
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
LOCATION #5**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	33
CONTRACT NO. 70H14			ILLINOIS FED. AID PROJECT	

**WIDTH RESTRICTION SIGNING
LOCATION #6 S.N. 057-0218**



NOTE: WIDTH RESTRICTION SIGNING ONLY REQUIRED IF TEMPORARY CONCRETE BARRIERS ARE USED FOR TRAFFIC CONTROL AT LOCATION #6

MODEL: WRS-2 [Sheet]
FILE NAME: c:\p\work\width\stevenson\wood\illinois.gov\057\0114-Sign-Width-Restriction.dgn

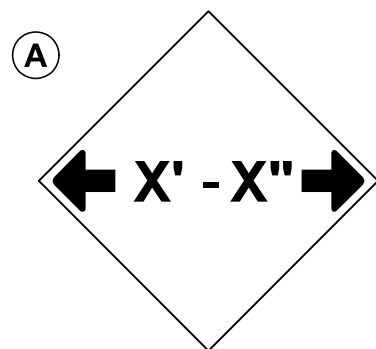
USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 1/4/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
LOCATION #6**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

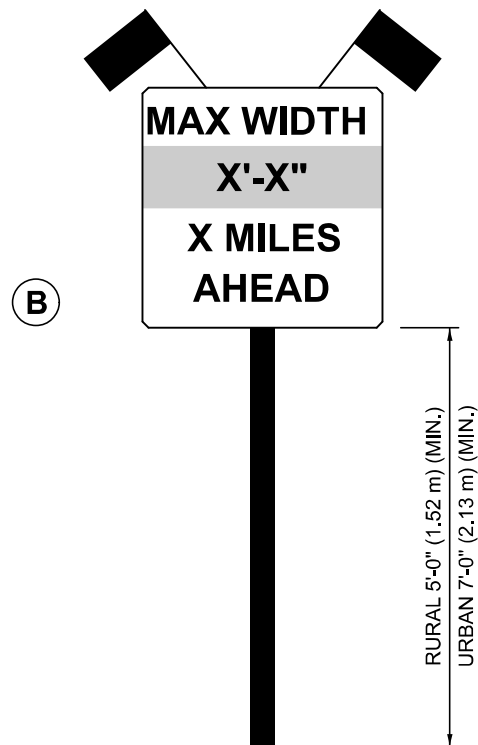
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	34
CONTRACT NO. 70H14				
ILLINOIS FED. AID PROJECT				



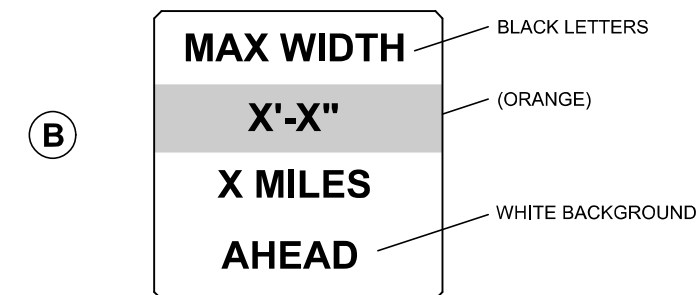
W12-2(O)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



**W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS**

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: SHT_PLAN
FILE NAME: C:\Bentley\CONNECT101\Organization-Civil\DOT_Standards\CeillIDOT_Sheets.dwg

USER NAME = Eric.Thomas	DESIGNED -	REVISED - 05-08/
	DRAWN -	REVISED - 10-08 KJT
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED - 07-09 KJT
PLOT DATE = 12/7/2022	DATE -	REVISED - 03-11 KJT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. X7200201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D5 BRIDGE PAINTING 2024-2	MCLEAN	35	35
			CONTRACT NO. 70H14	
		ILLINOIS	FED. AID PROJECT	