

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.* ATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MCLEAN	26	1
		ILLINOIS	CONTRACT NO. 70G12	

* FAI-55 & FAP 704
** D5 BRIDGE PAINTING 2024-1

D-95-040-21



LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5

CURRENT TRAFFIC DATA

LOC. #1	LOC. #2	LOC. #3
I-55 = 19,800	I-55 = 22,700	I-55 Busn Loop = 23300
White Oak Rd = 4,250	White Oak Rd = 4,250	
(2023)	(2023)	(2023)

LOC. #1 S.N. 057-0018 - FAI 55 NB @ m.p. 161.0 over White Oak Road & NSRR
LOC. #2 S.N. 057-0019 - FAI 55 SB @ m.p. 161.0 over White Oak Road & NSRR
LOC. #3 S.N. 057-0064 - I-55 Busn Loop over NSRR - 0.49 mi. East of U.S. 51

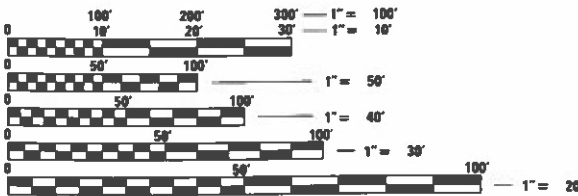
PROPOSED
HIGHWAY PLANS

ROUTES FAI-55 & FAP 704 (I-55 & I-55 BUSN)
SECTION D5 BRIDGE PAINTING 2024-1
PROJECT NHPP - T1DQ(777)
BRIDGE PAINTING
MCLEAN COUNTY

C-95-050-22

I-55: OVER WHITE OAK RD & NS RR 3.8 MI SW OF US 51
I-55 BUSN LOOP OVER NS RAIL CORP. 0.5 MI E OF US 51

FOR LOCATION MAP, SEE SHEET 3



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

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

CONTRACT NO. 70G12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 8/19 2023
Kenneth A. Horne REGIONAL ENGINEER
October 13, 2023
Stephen M. Lanza ENGINEER OF DESIGN AND ENVIRONMENT
October 13, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, & GENERAL NOTES
3	LOCATION MAP LOCATIONS 1-3
4-5	SUMMARY OF QUANTITIES
6	TRAFFIC CONTROL SUMMARY
7-8	DESCRIPTIONS OF WORK FOR LOCATIONS 1-3
9-18	LOCATION #1 & #2 - STRUCTURE DETAILS
19-23	LOCATION #3 STRUCTURE DETAILS
24-26	WIDTH RESTRICTION SIGNING DETAIL

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
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
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-11	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701901-08	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.-107.12
THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD
CONTACT IS:

Mr. Keith Zerbe
Track Supervisor
Norfolk Southern Railway Company
2100 West College Avenue
Normal IL. 61761
(616) 260-5775

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD
FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE
RAILROAD CONTACT PERSON FOR FLAGGERS IS: (SEE NOTE ABOVE)

FLAGGING WILL BE ASSIGNED BY NORFOLK SOUTHERN ONCE THEIR RIGHT
OF ENTRY AND INSURANCE REQUIREMENTS HAVE BEEN MET.

SOME RAILROADS REQUIRE CONTRACTORS TO OBTAIN A RIGHT OF ENTRY
PERMIT BEFORE ENTERING UPON RAILROAD RIGHT OF WAY. IT IS THE
RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A RAILROAD RIGHT OF
ENTRY PERMIT FROM THE RAILROAD IF REQUIRED BY THE RAILROAD.

G.N.-107.12A (SPECIAL)
ALL WORK TO BE PERFORMED ON, OVER, UNDER, OR ADJACENT TO THE
RAILROAD RIGHT OF WAY SHALL COMPLY WITH THE NORFOLK SOUTHERN
RAILWAY COMPANY ("RAILROAD", "NSR" OR "NS") PUBLIC PROJECTS MANUAL
(APPENDIX E, SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY
INTERESTS, AND APPENDIX H1, OVERHEAD GRADE SEPARATION DESIGN
CRITERIA). WHEN IN CONFLICT WITH OTHER SPECIFICATIONS, THE MOST
STRINGENT ONE SHALL APPLY.

ADDITIONALLY, THE MINIMUM TEMPORAY CLEARANCES OF 22'-0" VERTICALLY
ABOVE TOP OF HIGHEST RAIL AND 13'-0" HORIZONTALLY FROM CENTERLINE OF
TANGENT TRACK (OR 14'-0" HORIZONTALLY FROM CENTERLINE OF CURVED TRACK)
SHALL BE MAINTAINED AT ALL TIMES. MINIMUM CLEARANCES FOR CONTAINMENT
SYSTEM, OPERATIONS AND REMOVAL SHALL NOT BE LESS THAN 22'-0" ABOVE TOP
OF RAIL OF NORFOLK SOUTHERN TRACKS AND 13'-0" FROM CENTERLINE OF TRACK
MEASURED AT A RIGHT ANGLE.

ALL PROPOSED TEMPORARY CLEARANCES WHICH ARE LESS THAN THOSE LISTED
ABOVE MUST BE SUBMITTED TO THE RAILROAD ENGINEER FOR APPROVAL PRIOR TO
CONSTRUCTION AND MUST ALSO BE AUTHORIZED BY THE REGULATORY BODY OF
THE STATE IF LESS THAN THE LEGALLY PRESCRIBED CLEARANCES AS STATED
IN ARTICLE 107.12 OF THE STANDARD SPECIFICATIONS

G.N.-107.12B (SPECIAL)
IT HAS BEEN ADVISED BY THE RAILROAD THAT TRACK AND GROUND PROTECTION
SHALL BE PROVIDED TO PROTECT THE BALLAST FROM CONTAMINATION AND THAT
IT WOULD BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY RESTORATION
IF DEEMED NECESSARY BY THE RAILROAD. ALSO, THE CONTRACTOR SHALL
PROVIDE THEIR INTENT FOR PROTECTION TO THE RAILROAD AND MAY DISCUSS
ANY QUESTIONS AT THE CONTACT INFORMATION SHOWN.

G.N.-107.12C (SPECIAL)
FOR PROJECTS REQUIRING MORE THAN 30 CONSECUTIVE DAYS OF FLAGGING, THE
CONTRACTOR SHALL PROVIDE THE FLAGMAN A SMALL WORK AREA WITH A DESK /
COUNTER AND CHAIR WITHIN THE FIELD / SITE TRAILER, INCLUDING THE USE OF
BATHROOM FACILITIES, WHERE THE FLAGMAN CAN CHECK IN / OUT WITH THE
PROJECT, AS WELL AS TO THE FLAGMAN'S HOME TERMINAL. THE WORK AREA
SHOULD PROVIDE ACCESS TO TWO (2) ELECTRICAL OUTLETS FOR RECHARGING
RADIO(S), AND A LAPTOP COMPUTER, AND HAVE THE ABILITY TO PRINT OFF
NEEDED DOCUMENTATION AND ORDERS AS NEEDED AT THE FILED / SITE
TRAILER. THIS SHOULD AID IN MAXIMIZING THE FLAGMAN'S TIME AND
EFFICIENCY ON THE PROJECT.

THE COST OF CONFORMING TO THE ADDITIONAL RAILROAD REQUIREMENTS AS
STATED IN G.N.-107.12A (SPECIAL), G.N.-107.12B (SPECIAL) AND G.N.-107.12C
(SPECIAL) SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE
BID FOR THE VARIOUS ITEMS OF WORK INVOLVED, AND NO ADDITIONAL
COMPENSATION WILL BE ALLOWED.

G.N.-501A
THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR
SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT
AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE
OF LEAD ON THIS PROJECT.

G.N.-506 (SPL.)
ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED GRAY (MUNSELL COLOR
STANDARD - 5B 7/1) EXCEPT THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS
WHICH 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.

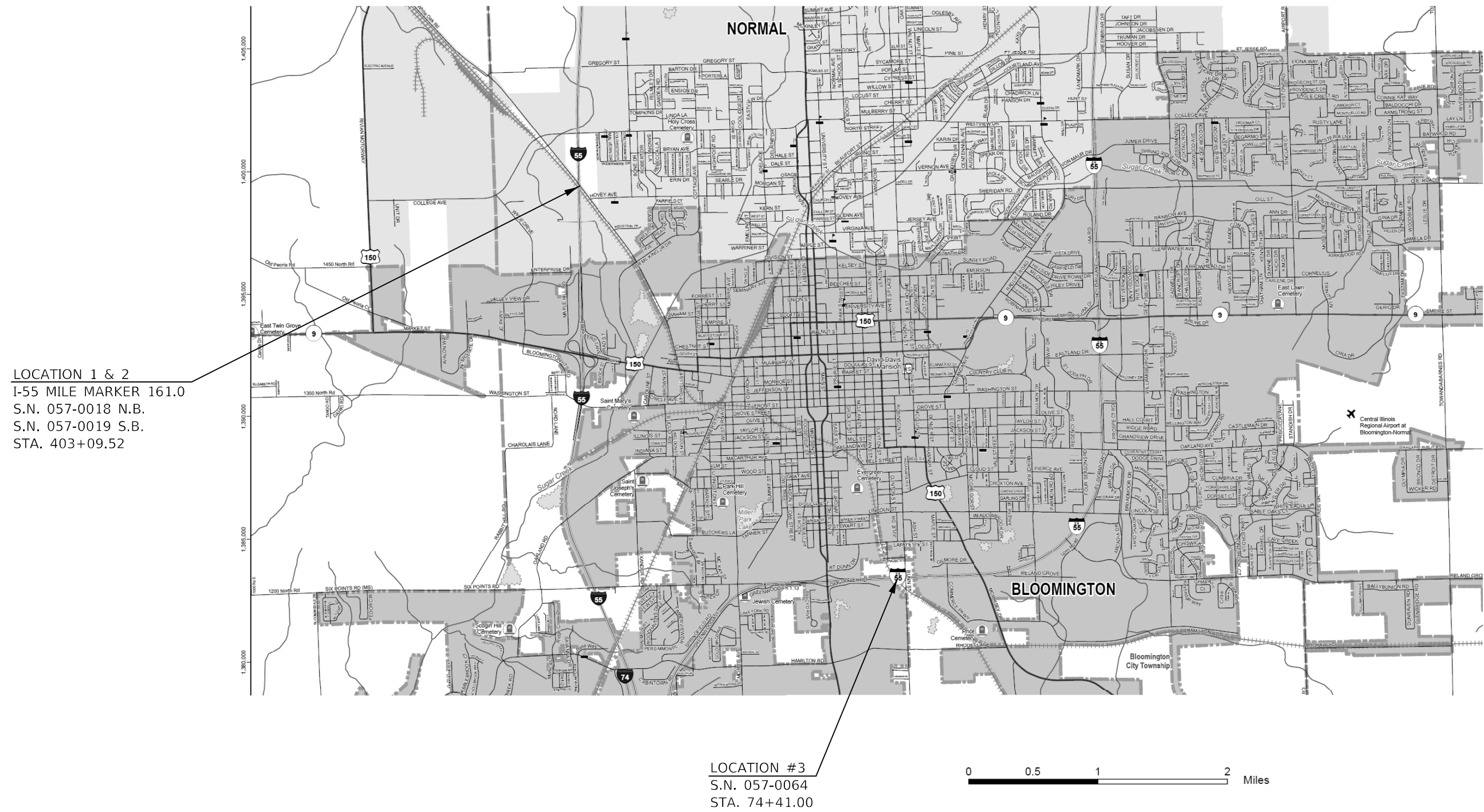
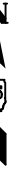
2 YEAR PAINT WARRANTY REQUIRED FOR ALL STRUCTURES

COMMITMENTS
THERE ARE NO COMMITMENTS ON THIS PROJECT

* FAI-55 & FAP 704

	USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES			F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					*	**	MCLEAN	26	2
	PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -					** D5 BRIDGE PAINTING 2024-1 CONTRACT NO. 70G12				
	PLOT DATE = 8/9/2023	DATE -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

BLOOMINGTON NORMAL



TOWNSHIPS
NORMAL
BLOOMINGTON

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE LOCATION MAP – MCLEAN CO.

SCALE: none	SHEET 1 OF 1 SHEETS	STA. TO STA.
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* FAI-55 & FAP 704

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MCLEAN	26	3
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3
	FAI 55 (1-55)	FAI 55 (1-55)	FAP 704 (1-55 Busn)
	S.N.057-0018	S.N.057-0019	S. N.057-0064
COUNTY:	MCLEAN	MCLEAN	MCLEAN
	URBAN	URBAN	URBAN
FUNDING BREAKOUT:	90% FEDERAL	90% FEDERAL	80% FEDERAL
	10% STATE	10% STATE	20% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY
	67100100		MOBILIZATION	L SUM	1.0	0.3	0.3	0.4
	70100207		TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2.0	1.0	1.0	
	70100325		TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1.0			1.0
	70100405		TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1.0	0.5	0.5	
	70106500		TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1.0	0.5	0.5	
	70107025		CHANGEABLE MESSAGE SIGN	CAL DA	35.0	14.0	14.0	7.0
	70400100		TEMPORARY CONCRETE BARRIER	FOOT	1525.0	612.5	612.5	300.0
	70400200		RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300.0	150.0	150.0	
	70600240		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	3.0	1.0	1.0	1.0
	70600250		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.0	1.0	1.0	
	70600340		IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2.0	1.0	1.0	

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	USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	SCALE: NONE [SHEET 1 OF 2 SHEETS] STA. TO STA.	F.A. * RTE. I	SECTION	COUNTY	TOTAL: 1 SHEET
		DRAWN -	REVISED -				* I	**	MCLEAN	1 26 1 4
	PLOT SCALE = 40.0000 ' / ft.	CHECKED -	REVISED -				** 05 BRIDGE PAINTING 2024-1			CONTRACT NO. 70G12
	PLOT DATE = 8/9/2023	DATE -	REVISED -				ILLINOIS I FED. AID. PROJECT			

* FAI-55 & FAP 704

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3
	FAI 55 (1-55)	FAI 55 (1-55)	FAP 704 (1-55 Busn)
	S.N.057-0018	S.N.057-0019	S.N.057-0064
COUNTY:	MCLEAN	MCLEAN	MCLEAN
	URBAN	URBAN	URBAN
FUNDING BREAKOUT:	90% FEDERAL	90% FEDERAL	80% FEDERAL
	10% STATE	10% STATE	20% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY
	)5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1.0			1.0
	)5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1.0	1.0		
	)5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1.0		1.0	
	)5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1.0			1.0
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0	0.4	0.4	0.2
	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1.0	1.0		
	Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	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
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0	0.3	0.3	0.4
• DENOTES SPECIALTY ITEM							

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TRAFFIC CONTROL SUMMARY

			70100405 TC&P Std. 701321 Each	70100325 TC&P Std. 701423 Each	70100207 TC&P Std. 701402 Each	no pay item TC&P Std. 701400 not measured for payment included with 701402	70400100 Temp Conc Barrier Foot	70400200 Relocate Temp Conc Barrier Foot	70600240 Impact Atten Test Level 2 Each	70600250 Impact Atten Test Level 3 Each	70600340 Relocate Imp Att, TL 2 Each	70107025 Changeable Message Sign Cal Day
Location	Structure	Direction										
# 1	057-0018	NB	0.5	-	1.0 **	on I-55 NB	312.5' under 0018 on White Oak	150' taper on White Oak	1.0	-	1.0	7 day advance notice on White Oaks Rd
							300' I-55 NB **	-	-	1.0 **	-	7 day advance notice I-55 NB **
# 2	057-0019	SB	0.5	-	1.0 **	on I-55 SB	312.5' under 0019 on White Oak	150' taper on White Oak	1.0	-	1.0	7 day advance notice on White Oaks Rd
							300' I-55 SB **	-	-	1.0 **	-	7 day advance notice I-55 SB **
# 3	057-0064		-	1.0 ***	-	-	300' ***	-	1.0 ***	-	-	7 day advance notice on I-55 Busn Loop SB/WB ***
			TOTALS	1.0	1.0	2.0	1525	300	3.0	2.0	2.0	35.0

** Contractor may or may not need these traffic control items. It is anticipated that the Contractor will paint 057-0018 & 0019 from existing ROW under the structures. TC&P Std 701321 will be used to paint Span 4 over White Oak Rd. Additional traffic control items marked ** are included in this contract in the event the Contractor needs to paint Span 1 from above on I-55.

*** Contractor may or may not need these traffic control items. It is anticipated that the Contractor will paint 057-0064 from under the structure. Access is possible from the SW quadrant. The Contractor can find property owners to coordinate with using Mclean County GIS. Additional traffic control items marked *** are included in this contract in the event the Contractor needs to paint Span 5 from above on I-55 Busn Loop. If the Contractor elects to paint from above on I-55 Busn Loop, the Contractor shall close only the I-55 Busn Loop SB / WB driving lane to avoid conflicts with the US 51 Busn interchange.

LOCATION #1

DESCRIPTION: I-55 NB @ mp 161.0 over WHITE OAKS RD & NSRR
COUNTY: MCLEAN
ROUTE: I-55 NB
MARKED ROUTE: I-55 NB
SECTION: 57-6HVB
STRUCTURE NO.: 057-0018
TYPE OF STRUCTURE: 5 SPAN CONTINUOUS STEEL
11 BEAM LINES - BK-BK ABUTS = 450.72'

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 BLASTING SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 OZE/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 AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF THREE (3) HIGH VOLUME AIR MONITOR WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

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

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS and PIERS 1, 2, and 4

TRAFFIC CONTROL AND PROTECTION

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATIONS #1 & #2 FROM EXISTING ROW UNDER THE STRUCTURES. TC&P STANDARD 701321 WILL BE USED TO PAINT SPAN 4 OVER WHITE OAKS ROAD. TC&P 701402 IS INCLUDED IN THIS CONTRACT IN THE EVENT THE CONTRACTOR NEEDS TO PAINT SPAN 1 FROM ABOVE ON I-55.

LOCATION #2

DESCRIPTION: I-55 NB @ mp 161.0 over WHITE OAKS RD & NSRF
COUNTY: MCLEAN
ROUTE: I-55 SB
MARKED ROUTE: I-55 SB
SECTION: 57-6HVB
STRUCTURE NO.: 057-0019
TYPE OF STRUCTURE: 5 SPAN CONTINUOUS STEEL
11 BEAM LINES - BK-BK ABUTS = 450.72'

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 BLASTING 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 AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

A MINIMUM OF THREE (3) HIGH VOLUME AIR MONITOR WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

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

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS and PIERS 1, 2, and 4

TRAFFIC CONTROL AND PROTECTION

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATIONS #1 & #2 FROM EXISTING ROW UNDER THE STRUCTURES. TC&P STANDARD 701321 WILL BE USED TO PAINT SPAN 4 OVER WHITE OAKS ROAD. TC&P 701402 IS INCLUDED IN THIS CONTRACT IN THE EVENT THE CONTRACTOR NEEDS TO PAINT SPAN 1 FROM ABOVE ON I-55.

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESCRIPTION OF WORK
LOCATIONS #1 & #2

SCALE: NONE	SHEET 1	OF 2	SHEETS	STA.	TO STA.
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* FAL-55 & FAP 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MCLEAN	26	7
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
		ILLINOIS FED. AID PROJECT		

LOCATION #3

DESCRIPTION:	I-55 BUSN LOOP over NSRR - 0.49 mi E. of US 51
COUNTY:	MCLEAN
ROUTE:	I-55 BUSN LOOP
MARKED ROUTE:	I-55 BUSN LOOP
SECTION:	1-VB
STRUCTURE NO.:	057-0064
TYPE OF STRUCTURE:	5 SPAN CONTINUOUS STEEL 10 BEAM LINES - EK-BK ABUTS = 306.0'

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 BLASTING 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 AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8).

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 SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

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

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

TRAFFIC CONTROL AND PROTECTION

IT IS ANTICIPATED THAT THE CONTRACTOR WILL PAINT LOCATION #3 FROM UNDER THE STRUCTURE. ACCESS IS POSSIBLE FROM THE SW QUADRANT. THE CONTRACTOR CAN FIND PROPERTY OWNERS TO COORDINATE WITH USING MCLEAN COUNTY GIS. TC&P 701423 IS INCLUDED IN THIS CONTRACT IN THE EVENT THE CONTRACTOR NEEDS TO PAINT SPAN 5 FROM ABOVE ON I-55 BUSN LOOP.

DESCRIPTION OF WORK
LOCATION #3

SCALE: NONE	SHEET 2 OF 2 SHEETS	STA. TO STA.
-------------	---------------------	--------------

* FAI-55 & FAP 704					
F.A.* RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
**	**		MCLEAN	26	8
** D5 BRIDGE PAINTING 2024-1			CONTRACT NO. 70G12		
		ILLINOIS	FED. AID PROJECT		

AS-BUILT PLANS FOR S.N. 057-0018, 0019
FOR INFORMATION ONLY

BENCH MARKS:

T.B.M. No. 6: Chiseled cut on Southeast wingwall of
F.A.I. 55/74 Northbound bridge over White Oak Rd.
& N.S. Railroad. - El. 248.217

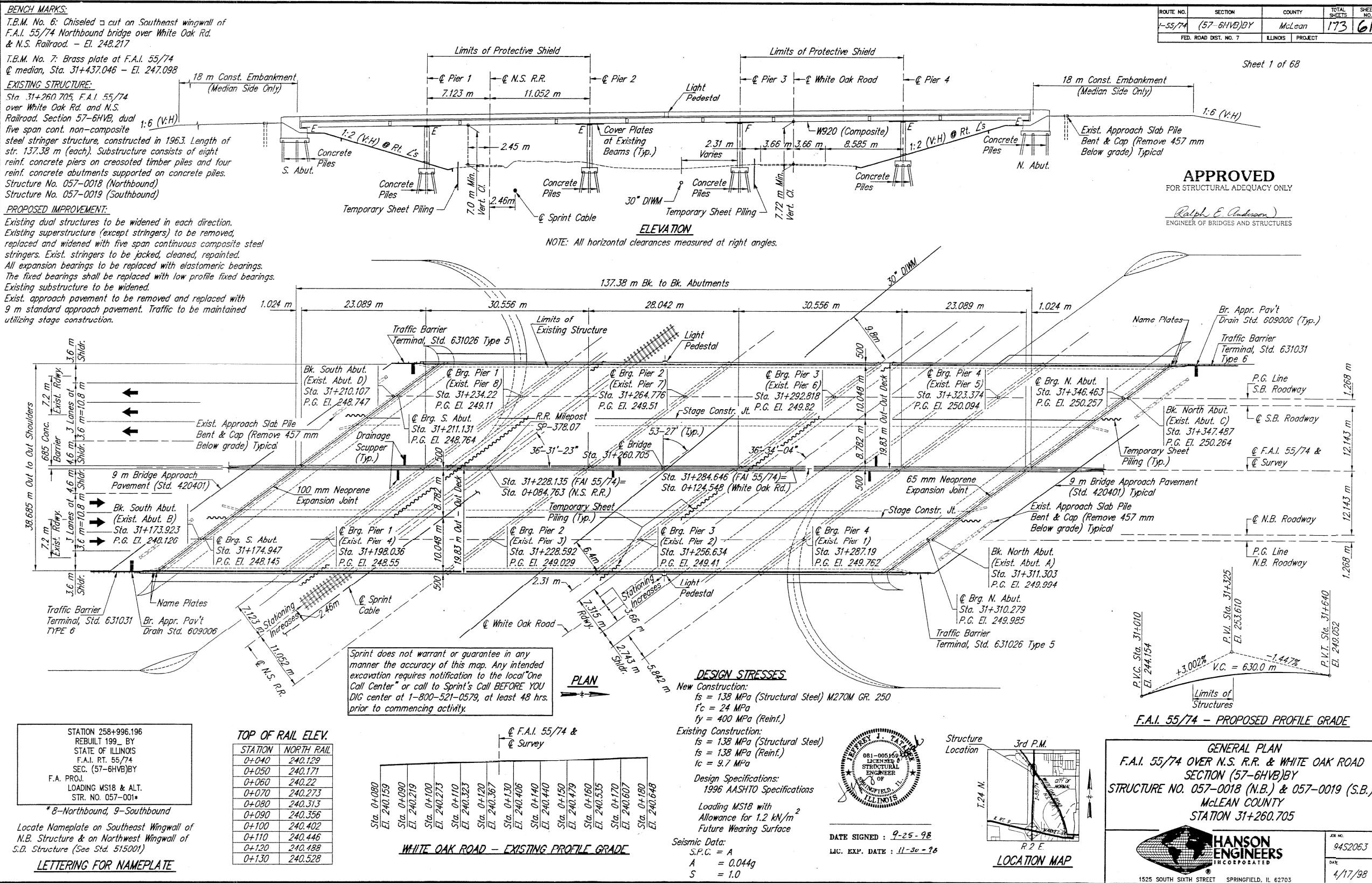
T.B.M. No. 7: Brass plate at F.A.I. 55/74
@ median, Sta. 31+437.046 - El. 247.098

EXISTING STRUCTURE:

Sta. 31+260.705, F.A.I. 55/74
over White Oak Rd. and N.S.
Railroad. Section 57-6HVB, dual
five span cont. non-composite
steel stringer structure, constructed in 1963. Length of
str. 137.38 m (each). Substructure consists of eight
reinforced concrete piers on creosoted timber piles and four
reinforced concrete abutments supported on concrete piles.
Structure No. 057-0018 (Northbound)
Structure No. 057-0019 (Southbound)

PROPOSED IMPROVEMENT:

Existing dual structures to be widened in each direction.
Existing superstructure (except stringers) to be removed,
replaced and widened with five span continuous composite
steel stringers. Exist. stringers to be jacked, cleaned, repainted.
All expansion bearings to be replaced with elastomeric bearings.
The fixed bearings shall be replaced with low profile fixed bearings.
Existing substructure to be widened.
Exist. approach pavement to be removed and replaced with
9 m standard approach pavement. Traffic to be maintained
utilizing stage construction.



USER NAME = Steven.Wood

DESIGNED -

REVISED -

DRAWN -

REVISED -

CHECKED -

REVISED -

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

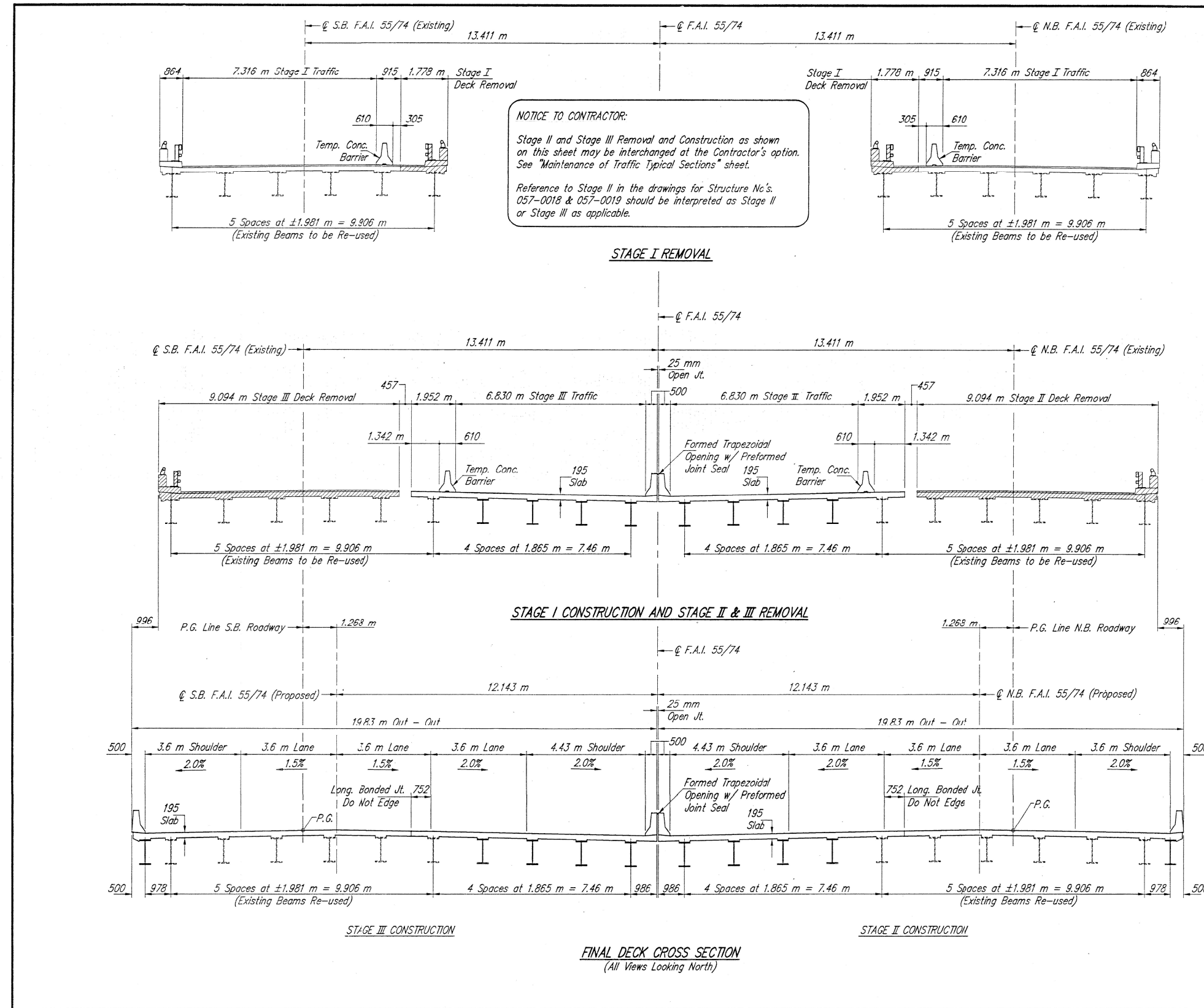
AS-BUILT PLANS
LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)

SCALE: NONE SHEET 1 OF 10 SHEETS STA. TO STA.

* FAI-55 & FAP 704

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	9
** D5 BRIDGE PAINTING 2024-1			CONTRACT NO. 70G12	
ILLINOIS			FED. AID PROJECT	

AS-BUILT PLANS FOR S.N. 057-0018, 0019
FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-55/74	(57-6HVB)BY	McLean	173	CA
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

Sheet 4 of 68

STAGE CONSTRUCTION

See "MAINTENANCE OF TRAFFIC TYPICAL SECTIONS" sheet for additional information.

STAGE I

Place temporary concrete barriers and maintain two lanes of traffic on outside portion of bridge.
Provide traffic control and protection and protective shielding for White Oak Road and N.S. Railroad.
Remove median portion of existing bridge deck.
Disconnect diaphragms from existing beam on median side of bridge.
Jack and Crib existing beam on median side of bridge.
Remove portions of existing substructure.
Construct median extensions of piers and abutments.
Erect and construct new median portions of superstructure.

STAGE II

Fasten grates of inlets on bridge approach pavement slabs constructed in Stage I.
Relocate temporary concrete barrier onto new portion of deck constructed in Stage I and maintain two lanes of traffic.
Remove remainder of existing bridge deck.
Move or remove existing outside beam as required to drive piles in outside extension of pier. Cost of moving or removing existing outside beam is included with the cost of "Driving Concrete Piles".
Jack and Crib remaining existing beams.
Remove portions of existing substructure.
Construct outside extensions of piers and abutments.
Erect and construct remainder of new superstructure.

Quantity of Temporary Concrete Barrier is included with the Roadway Plans.

Hatched areas indicate removal of existing concrete deck.

CONSTRUCTION STAGING
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
MCLEAN COUNTY
STATION 31+260.705

HANSON ENGINEERS
INCORPORATED
1525 SOUTH SIXTH STREET SPRINGFIELD, ILL. 62703

JOB NO.
94S2053
DATE
4/17/98

USER NAME = Steven.Wood	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)

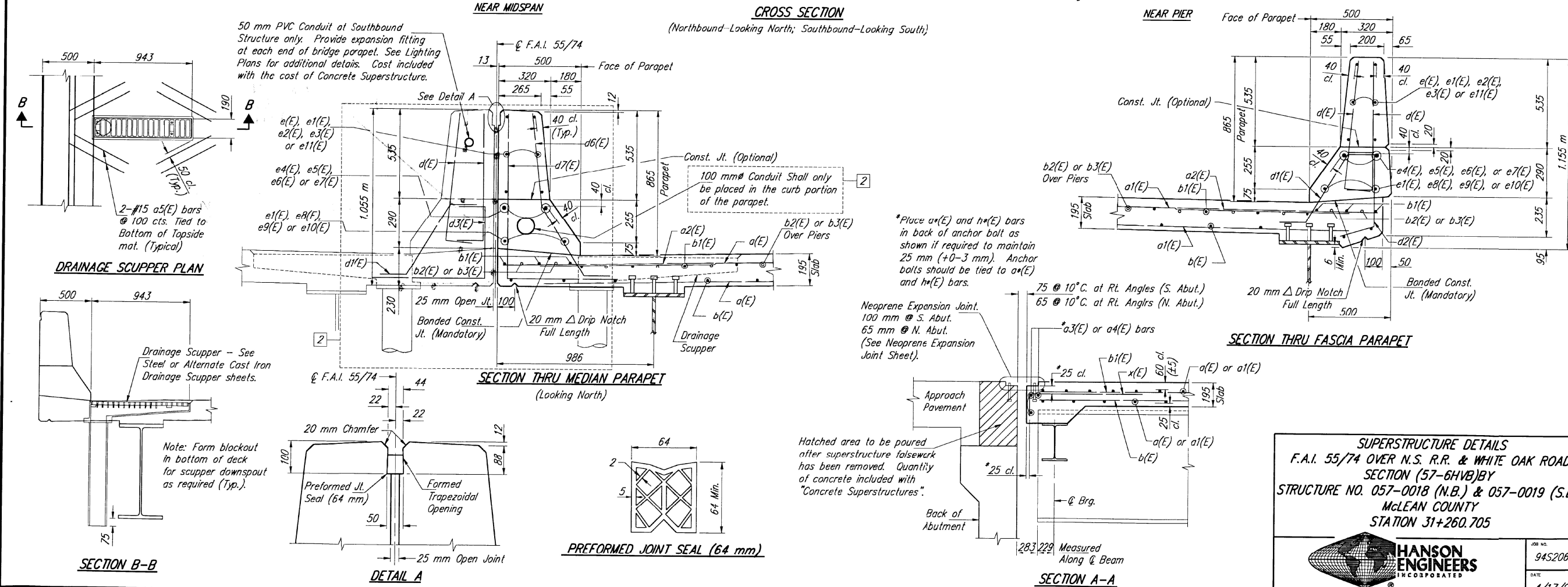
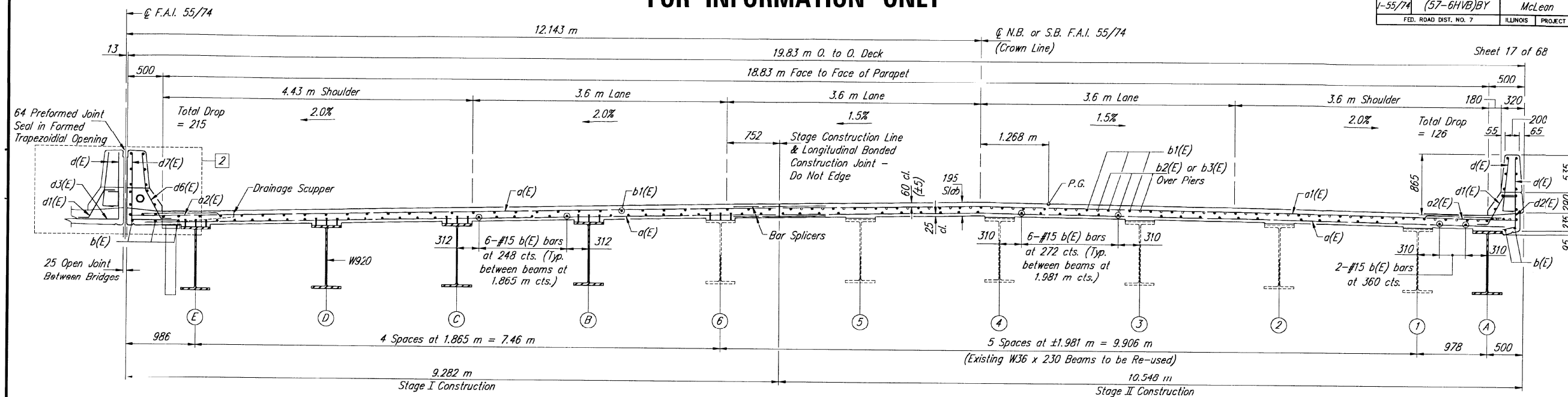
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F.A.I. 55 & FAP 704		COUNTY	TOTAL SHEETS	SHEET NO.
SECTION		MCLEAN	26	10
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS		FED. AID PROJECT		

AS-BUILT PLANS FOR S.N. 057-0018, 0019

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55/74	(57-6HVB)BY	McLean		
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



SUPERSTRUCTURE DETAILS
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
MCLEAN COUNTY
STATION 31+260.705

HANSON ENGINEERS
 INCORPORATED
 1525 SOUTH SIXTH STREET SPRINGFIELD, IL 62703

JOB NO. 9452063
 DATE 4/17/98

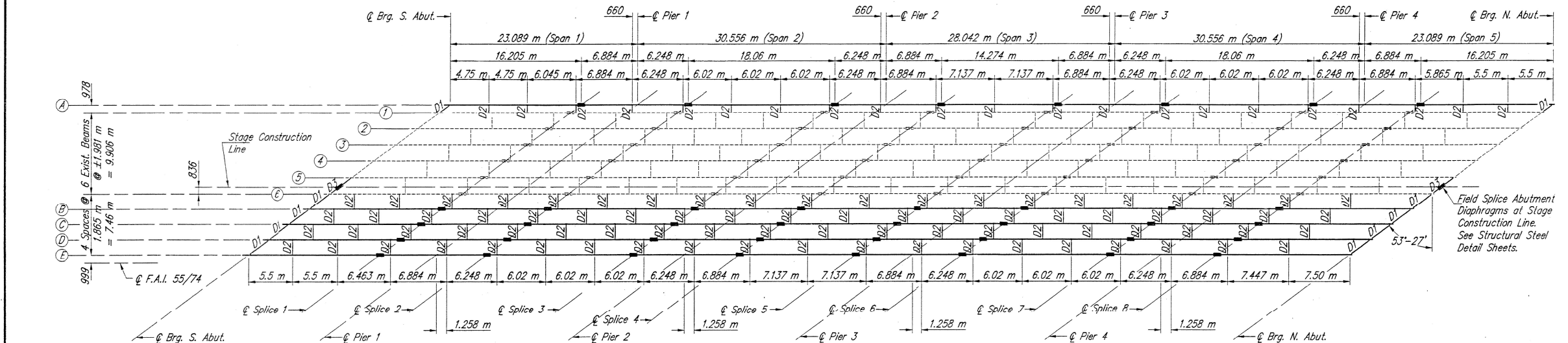
2 REVISED 03/19/99 - T.E.H.

USER NAME = Steven.Wood	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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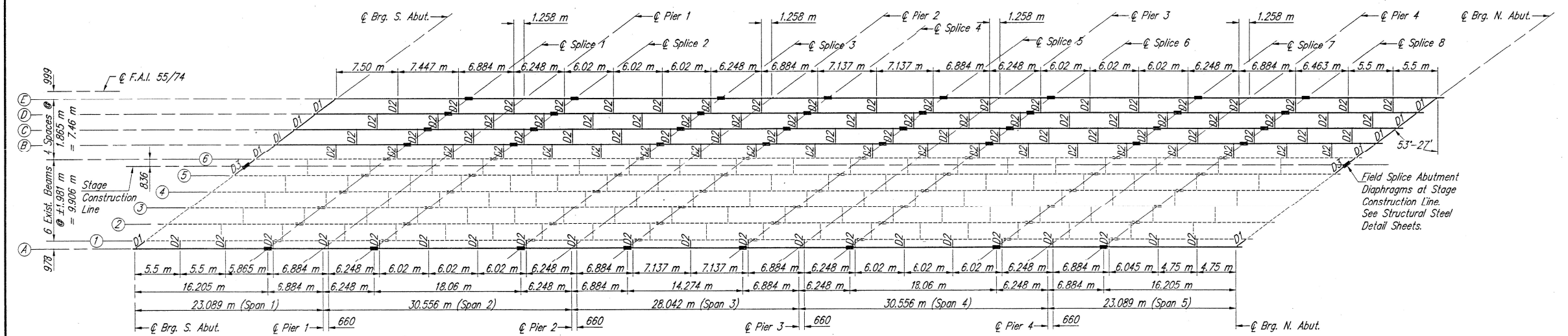
AS-BUILT PLANS FOR S.N. 057-0018, 0019
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55/74	(57-6HVB)BY	McLean	173	82
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

Sheet 22 of 68



FRAMING PLAN (SOUTHBOUND)



FRAMING PLAN (NORTHBOUND)

FRAMING PLANS
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
MCLEAN COUNTY
STATION 31+260.705

See Construction Staging Sheet
for notes regarding stage
construction of the structural
steel.

HANSON ENGINEERS
INCORPORATED
1525 SOUTH SIXTH STREET SPRINGFIELD, IL 62703

DATE: 4/17/98
JOB NO.: 9452063

DESIGNED	DATE	BY
DRAWN	DATE	BY
CHECKED	DATE	BY
REVIEWED	DATE	BY

USER NAME	DESIGNED	REVIS
STEVEN.WOOD	-	-
PLOT SCALE	CHECKED	REVIS
40,0000 * / in.	-	-
PLOT DATE	DATE	REVIS
8/9/2023	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)

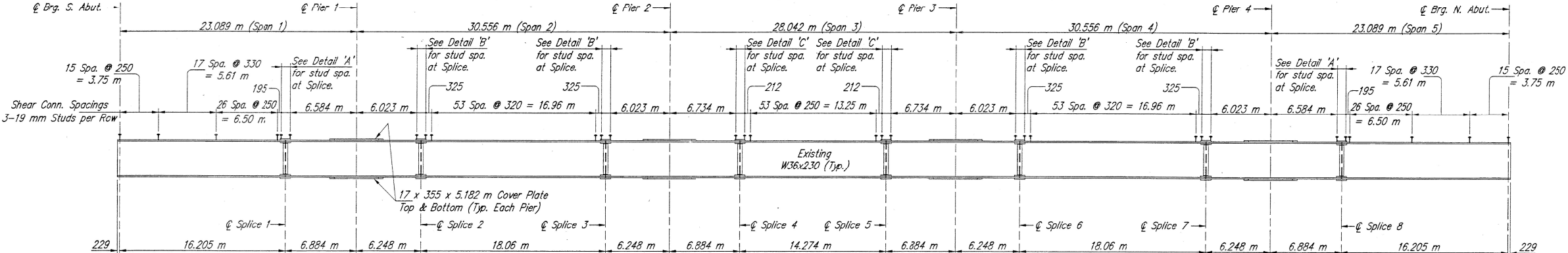
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS		FED. AID PROJECT		

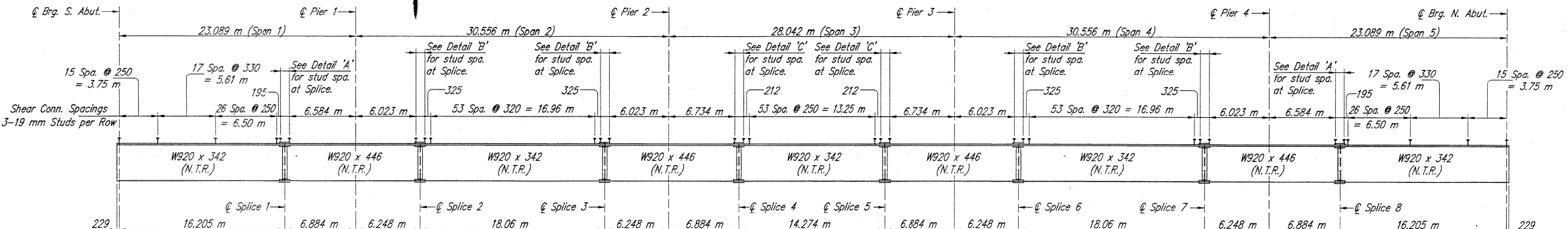
FOR INFORMATION ONLY

1-55/74	(57-6HVB)BY	McLean	173	83
FED. ROAD DIST. NO. 7		ELLINOIS	PROJECT	

Sheet 23 of 68

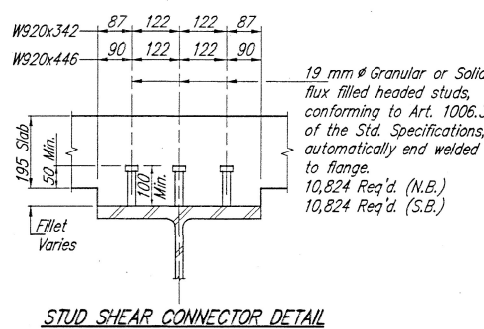
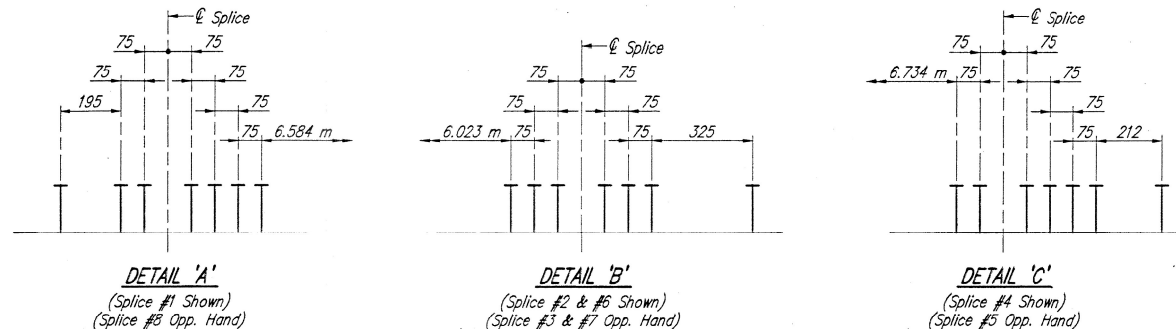


ELEVATION - EXISTING BEAMS 1 THRU



ELEVATION - NEW BEAMS A THRU E

N.T.R. Denotes Notch Toughness Requirements



STRUCTURAL STEEL DETAILS
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
McLEAN COUNTY
STATION 31+260.705



JOB NO. _____

DATE _____

4/17/98

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE	REVISION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AS-BUILT PLANS
LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)

SCALE: NONE	SHEET 5	OF 10 SHEETS	STA.	TO STA.
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* FA-55 & FAP 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MCLEAN	26	13
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		

* FAI-55 & FAP 704

F.A.*	SECTION	COUNTY	TOTAL PER COUNTY	SHEET OF TOTAL
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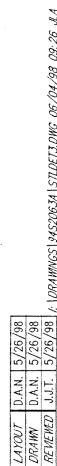
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		MCCLELLAN	20	19
* 25 BRIDGE PAINTING 2004-1		CONTRACT NO. 70613		

ILLINOIS		FED. AID PROJECT
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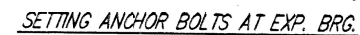
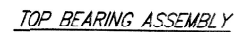
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Sheet 25 of 68



* FAF-55 & FAF 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	14
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
		ILLINOIS	FED. AID PROJECT	

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Sheet 26 of 68

SHIM PLATES			
Northbound (NB) or Southbound (SB)	North (N) or South (S) Abut.	Beam	Size
SB	S	1	P 2x254x6.30
SB	S	2	P 3x254x6.30
SB	S	3	P 8x254x6.30
SB	N	1	P 5x254x6.30
SB	N	2	P 6x254x6.30
SB	N	3	P 11x254x6.30
SB	N	4	P 2x254x6.30
SD	N	B	P 8x254x6.30
NB	S	C	P 10x254x6.30
NB	S	C	P 7x254x6.30
NB	S	D	P 14x254x6.30
NB	N	5	P 10x254x6.30
NB	N	B	P 17x254x6.30
NB	N	D	P 18x254x6.30



All dimensions are in millimeters (mm) except as noted.

<u>BILL OF MATERIAL</u>		
Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	44



**HANSON
ENGINEERS**
INCORPORATED

DATE
4/17/98

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	***	MCLEAN	26	15
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS FED. AID PROJECT				

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Sheet 27 of 68



LAYOUT	D.A.N.	4/17/98
DRAWN	D.A.N.	4/17/98
REVIEWED	J.J.T.	4/17/98

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

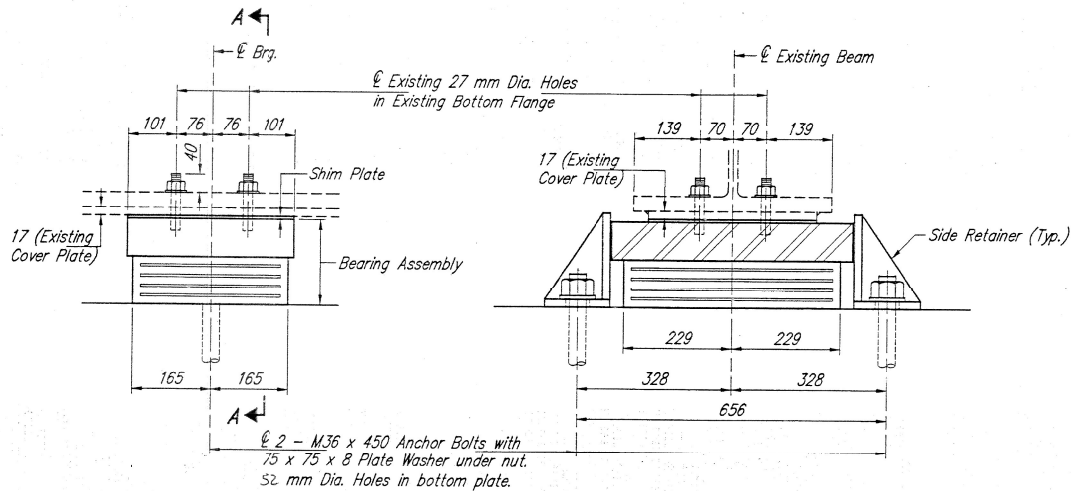
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* FAI-55 & FAP 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	16
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS FED. AID PROJECT				

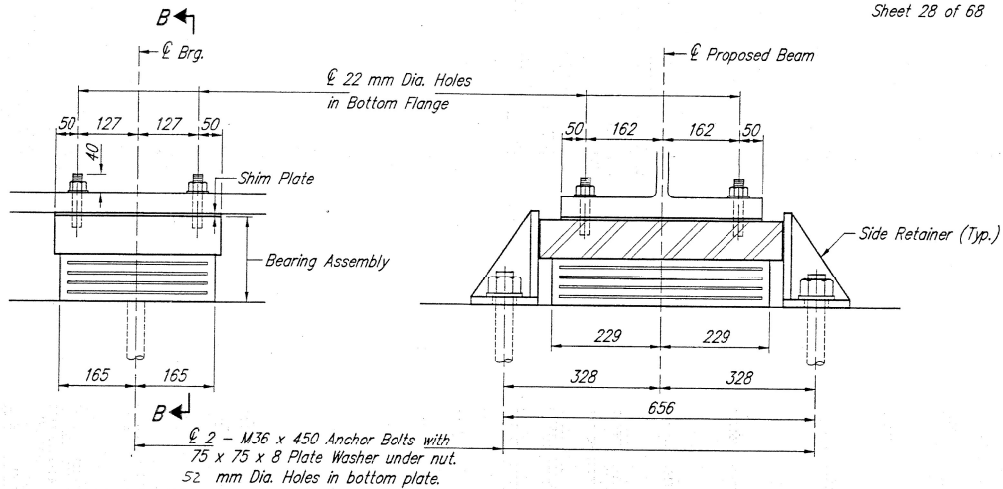
AS-BUILT PLANS FOR S.N. 057-0018, 0019
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55/74	(57-6HVB)RY	McLean	173	88
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

Sheet 28 of 68

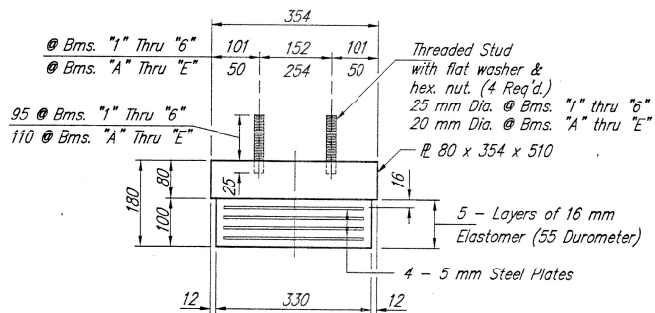


ELEVATION
SECTION A-A
TYPE I ELASTOMERIC EXPANSION BEARING AT PIERS 2 & 4
(EXISTING BEAMS "I" THRU "G")
No. Required = 12 (Northbound)
No. Required = 12 (Southbound)



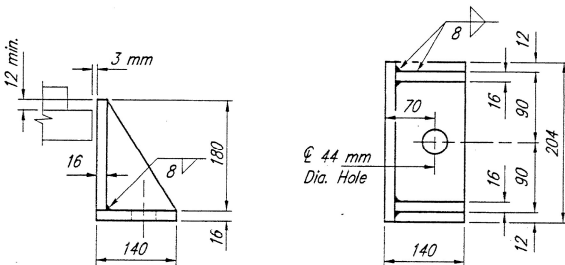
ELEVATION
SECTION B-B
TYPE I ELASTOMERIC EXPANSION BEARING AT PIERS 2 & 4
(PROPOSED BEAMS "A" THRU "E")
No. Required = 10 (Northbound)
No. Required = 10 (Southbound)

SHIM PLATES			
Pier No.	Northbound (NB) or Southbound (SB)	Beam	Size
2	NB	6	P 10x354x356
4	NB	6	P 10x354x356
2	SB	1	P 3x354x356
2	SB	2	P 3x354x356
2	SB	3	P 9x354x356
4	SB	1	P 2x354x356
4	SB	2	P 2x354x356
4	SB	3	P 9x354x356
2	NB	B	P 6x354x424
2	NB	C	P 6x354x424
2	NB	D	P 3x354x424
4	NB	B	P 11x354x424
4	NB	C	P 27x354x424
4	NB	D	P 14x354x424
4	SB	A	P 16x354x424



BEARING ASSEMBLY

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



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel. (Number Required = 88)

Notes:

See Anchor Bolt Details for anchor bolt installation.

All dimensions are in millimeters (mm) except as noted.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	44

BEARING DETAILS AT PIERS 2 & 4
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
McLEAN COUNTY
STATION 31+260.705



JOB NO.
94S2063
DATE
4/17/98

LAYOUT	D.A.N.	4/17/98
DRAWN	D.A.N.	4/17/98
REVIEWED	J.L.T.	4/17/98

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)

SCALE: NONE SHEET 9 OF 10 SHEETS STA. TO STA.

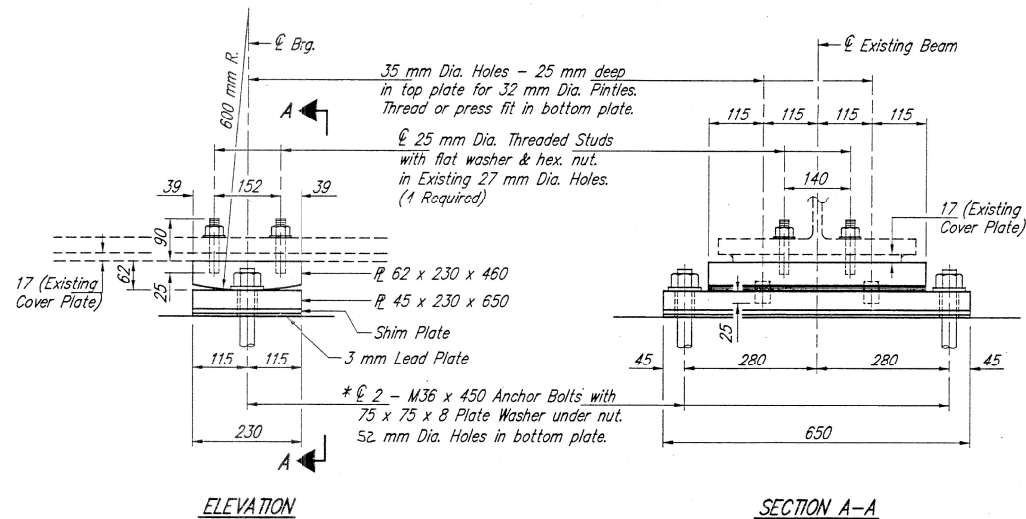
* FA-55 & FAP 704

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	17
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS		FED. AID PROJECT		

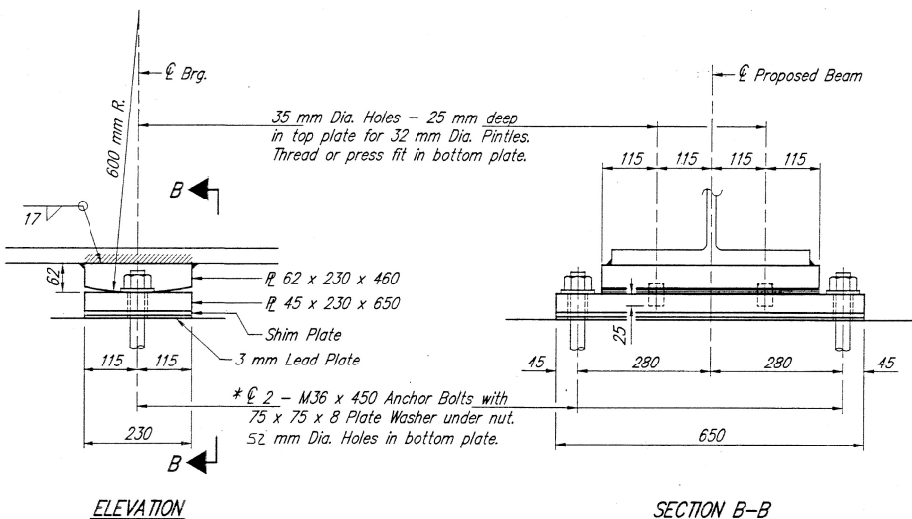
AS-BUILT PLANS FOR S.N. 057-0018, 0019
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55/74	(57-6HVB)BY	McLean	173	89
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

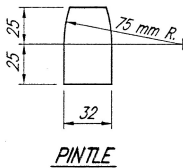
Sheet 29 of 68



FIXED BEARING AT PIER 3
(EXISTING BEAMS "1" THRU "6")
No. Required = 6 (Northbound)
No. Required = 6 (Southbound)



FIXED BEARING AT PIER 3
(PROPOSED BEAMS "A" THRU "E")
No. Required = 5 (Northbound)
No. Required = 5 (Southbound)



* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See Anchor Bolt Details Sheet for anchor bolt installation.
All dimensions are in millimeters (mm) except as noted.

SHIM PLATES		
Northbound (NB) or Southbound (SB)	Beam	Size
NB	6	P 10x230x650
SB	1	P 3x230x650
SB	2	P 3x230x650
SB	3	P 9x230x650
NB	C	P 16x230x650
NB	D	P 8x230x650

BEARING DETAILS AT PIER 3
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
MCLEAN COUNTY
STATION 31+260.705

HANSON ENGINEERS
INCORPORATED
1525 SOUTH SIXTH STREET SPRINGFIELD, IL 62703

JOB NO. 94S2063
DATE 4/17/98

DESIGNED	DAN.	4/26/98
DRAWN	DAN.	4/26/98
CHECKED	JLT.	4/26/98

PROJECT: I-55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
MCLEAN COUNTY
STATION 31+260.705

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 & #2 S.N. 057-0018 (NB) & 057-0019 (SB)

SCALE: NONE SHEET 10 OF 10 SHEETS STA. TO STA.

* FA-55 & FAP 704

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MCLEAN	26	18
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

Concrete splash Block
 4'1ft. 4'1ft.
 Downspout from Drainage Scupper
 Groundline
 D1
 ±367.46 West A
 ±372.00 East A
 SECTION B-B
 West Ab

Drainage Scupper
Groundline

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

± 367.46 West Abut.
± 372.00 East Abut.

12:1

2:1

7'6" West Abut.
6'2" East Abut.

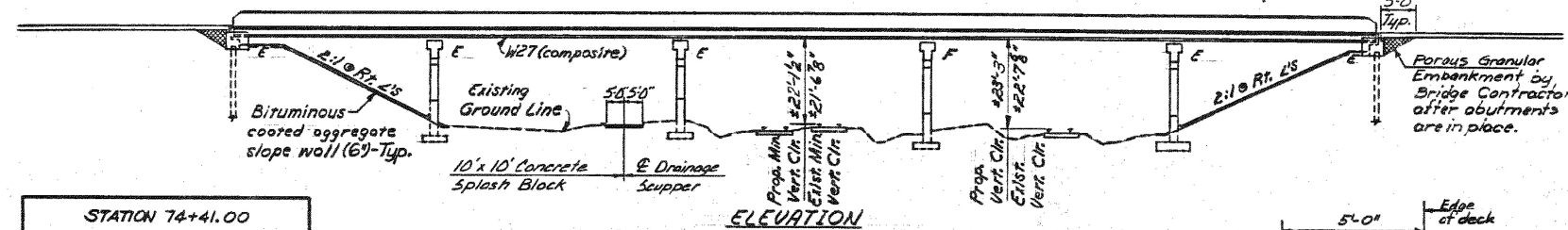
1'6" Face of Existing Pier

Face of Exist. Abut.

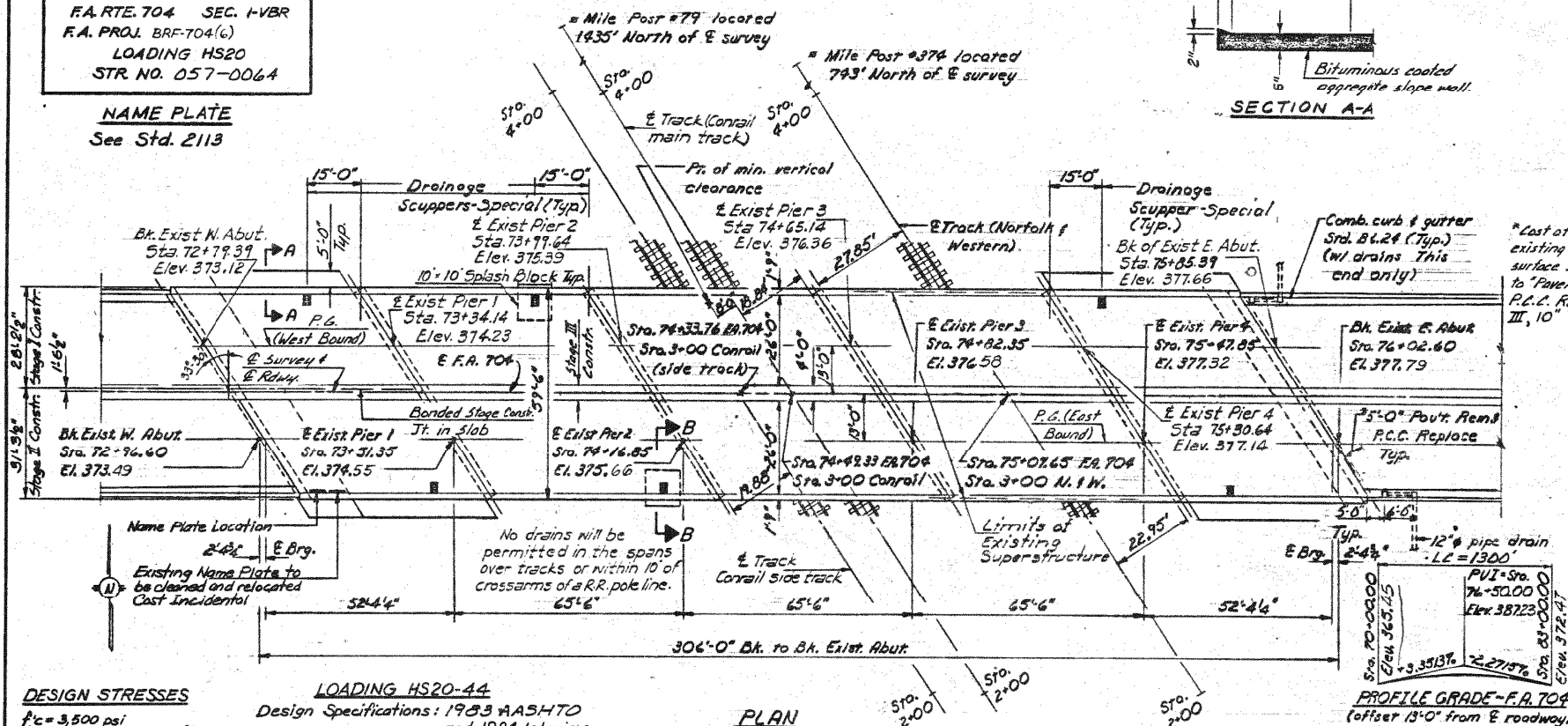
SECTION THRU BITUMINOUS
COATED AGGREGATE SLOPEWALL

2" PTF

(AT RT 63)



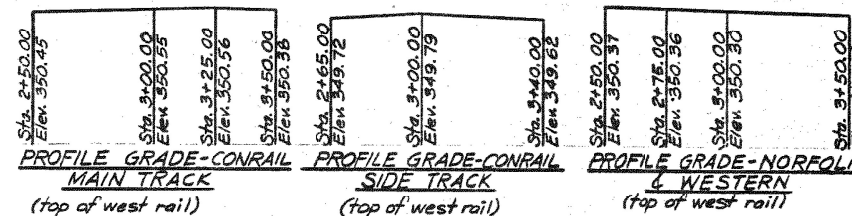
NAME PLATE
See Std. 2113



LOADING HS20-44
Design Specifications: 1983 AASHTO
and 1984 Interims

September 26 1885
EXAMINED *Craig S. Kasper*
PASSED *James T. Kasper*
APPROVED
DIRECTOR OF HIGHWAYS

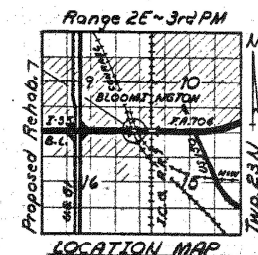
PLAN



*Cost of the removal of the existing bituminous wearing surface shall be incidental to "Pavement Removal and P.C.C. Replacement-Type III, 10".

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete	Cu.Yd.	528.5	95.5	624.0
Reinforcement Bars	Lbs.		9710	9710
Reinforcement Bars (Epoxy Coated)	Lbs.	122,790		122,790
Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	7280		7280
Neoprene Expansion Joint (2'x2')	Lin. Ft.	144		144
Elastomeric Brg. Assembly, Type I	Each	30		30
Elastomeric Brg. Assembly, Type II	Each	10		10
Elastomeric Brg. Assembly, Type III	Each	10		10
Concrete Removal	Cu.Yd.		40	40
Name Plates	Each	1		1
Temporary Concrete Barrier	Lin. Ft.	306		306
Removal of Existing Superstructure	Each	1		1
Drainage Scuppers - Special	Each	6		6
Bituminous Coated Aggregate Slope Wall (6")	Sq.Yd.		840	840
Pavement Removal and Portland Cement Concrete Placement - Type III, 10'	Sq.Yd.	69.3		69.3
Repair Concrete Structures	Sq.Ft.		69	69
Protective Coat	Sq.Yd.	2243		2243
Slope Wall (4")	Sq.Yd.		22.2	22.2
Structure Excavation	Cu.Yd.		70	70
Porous Granular Embankment	Tons		98	98



GENERAL PLAN
I-55 BUSINESS LOOP "VETERANS PARKWAY"
OVER CONRAIL AND N.W. RAILWAY
F.A. ROUTE 704 SECTION 1-UBB
MCLEAN COUNTY
STA. 74+41.00

Rev. 1-30-86 F.M.

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AS-BUILT PLANS
LOCATION #3 S.N. 057-0064

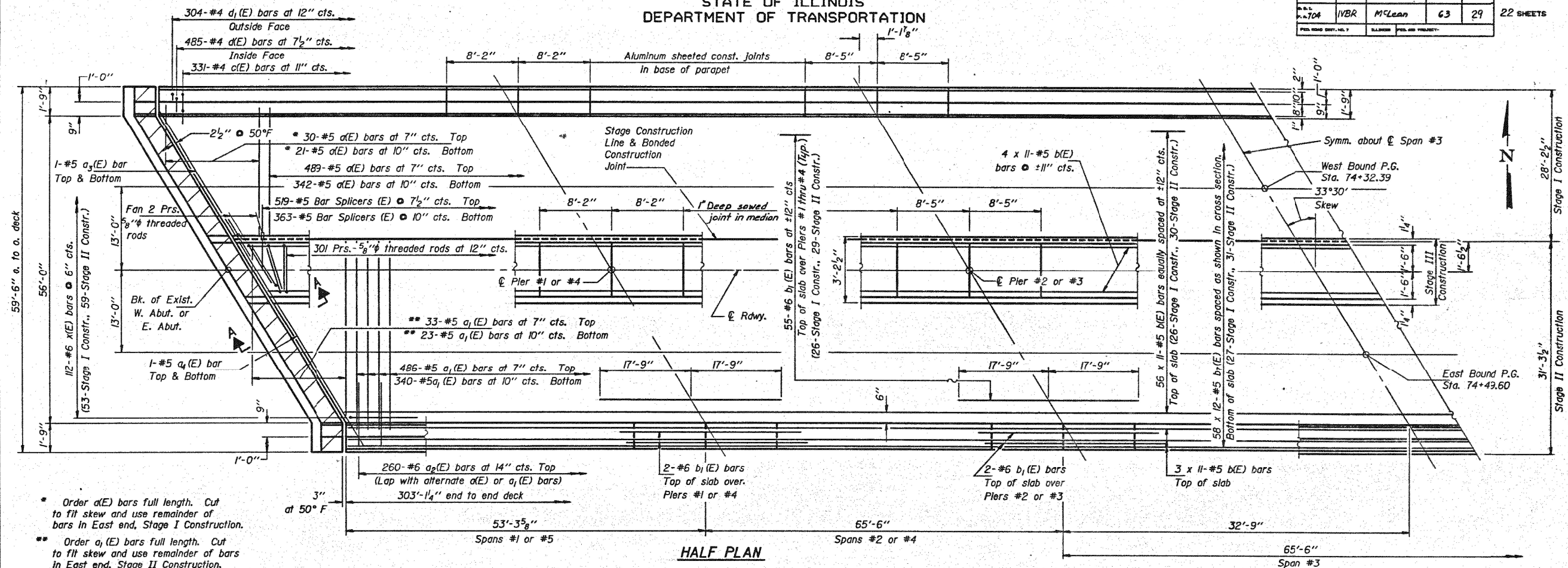
SCALE: NONE	SHEET 1 OF 5 SHEETS	STA.	TO STA.
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* FAI-55 & FAP 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	19
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
		ILLINOIS	FED. AID PROJECT	

AS-BUILT PLANS FOR S.N. 057-0064
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 1 R. 704	14BR	McLean	63	29
FED. ROAD DIST. NO. 7		BLANKS	FED. AID PROJECT-	

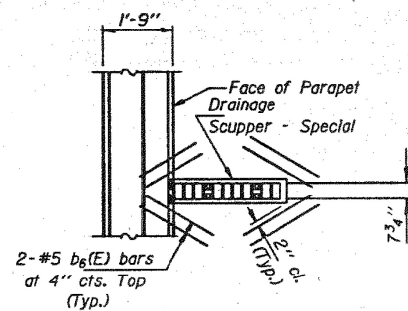
SHEET NO. 9
22 SHEETS



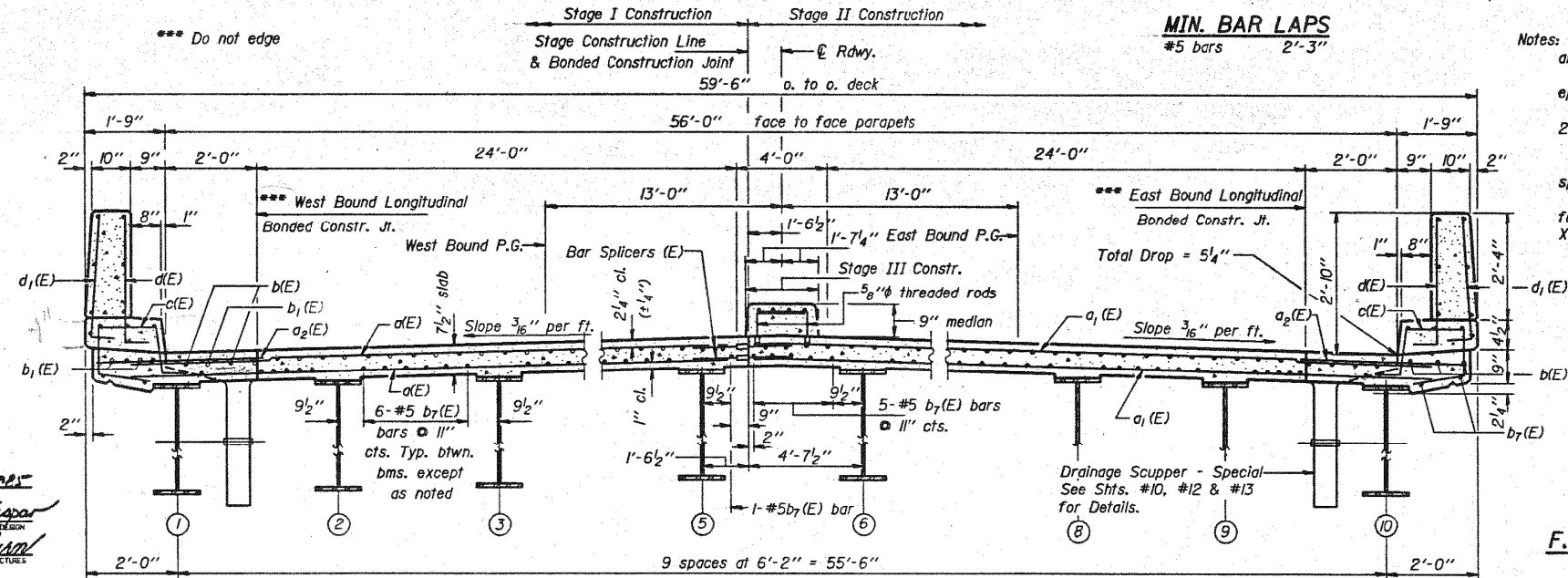
HALF PLAN

* Order $a(E)$ bars full length. Cut to fit skew and use remainder of bars in East end, Stage I Construction.

** Order $a_1(E)$ bars full length. Cut to fit skew and use remainder of bars in East end, Stage II Construction.



SCUPPER PLAN
(Showing Reinforcement)



CROSS SECTION
(Looking East)

MIN. BAR LAPS
#5 bars 2'-3"

Notes: See sheet #10 for Superstructure Details and Bill of Material.

Reinforcement bars designated (E) shall be epoxy coated.

Bars Indicated thus 20 x 3-#5 etc. Indicates 20 lines of bars with 3 lengths per line.

See Sht. #3 for Bar Splicer Details.

See Sht. #1 for Drainage Scupper - Special spaces.

Hatched area to be poured after superstructure formwork has been removed. Quantity of Class X Concrete Included with superstructure.

DESIGNED <i>David Benedict</i>	EXAMINED <i>Org. J. Kasper</i> ENGINEER OF STRUCTURAL DESIGN
CHECKED <i>David D. Kasper</i>	PASSED <i>James J. Kasper</i> ENGINEER OF BRIDGES AND STRUCTURES
DRAWN RON SOMMER	APPROVED _____ DIRECTOR OF HIGHWAY
CHECKED DS <i>DKM</i>	

S-1-R(15°) 12-1-83

SUPERSTRUCTURE
F.A. RTE. 704 SECTION 1-VBR
McLEAN COUNTY
STA. 74+41.00

USER NAME = Steven.Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #3 S.N. 057-0064

SCALE: NONE	SHEET 2	OF 5	SHEETS	STA.	TO STA.
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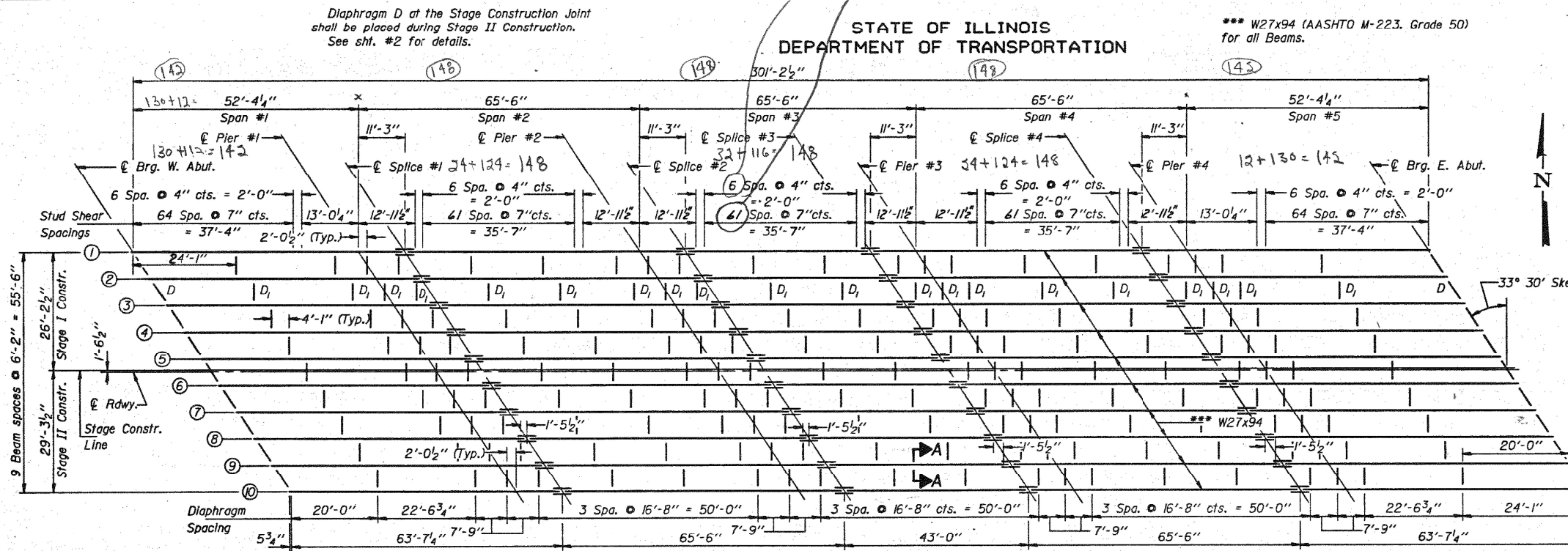
* FAI-55 & FAP 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	MCLEAN	26	20
** D5 BRIDGE PAINTING 2024-1		CONTRACT NO. 70G12		
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS FOR S.N. 057-0064
FOR INFORMATION ONLY

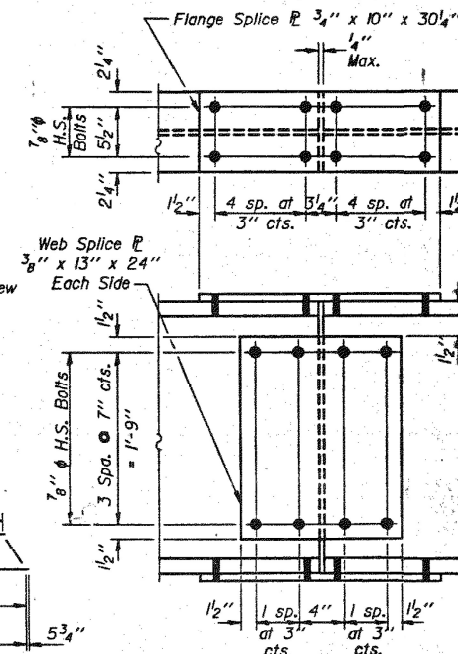
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

*** W27x94 (AASHTO M-223, Grade 50)
for all Beams.

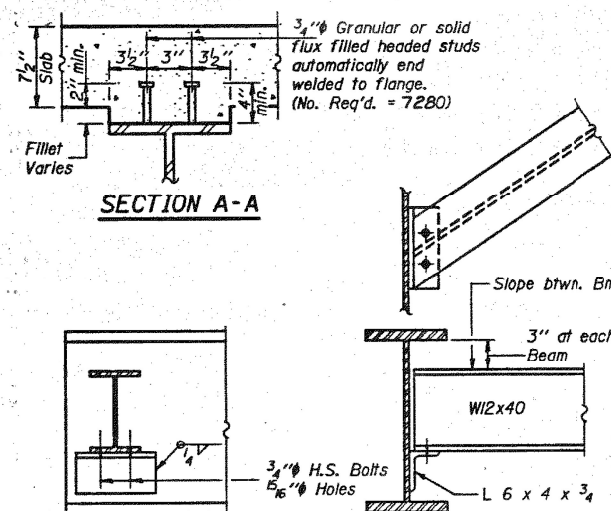
SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
704	I-VBR	McLean	63	34
22 SHEETS				



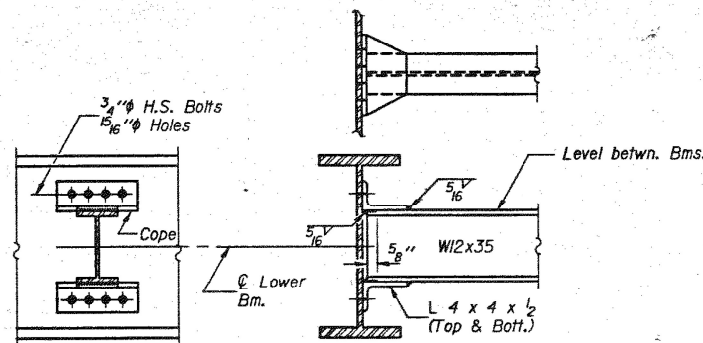
FRAMING PLAN



SPLICES #1, #2, #3 & #4
AASHTO M-223, Grade 50



DIAPHRAGM D
18 Required



DIAPHRAGM D1
180 Required

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs (Total & Overload).
VR is the maximum Live Load + Impact shear range in span.
Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.
Ma (Applied Moment) = 1.3IML + MsL + 5/8(ML + I).
Mu is the Full Plastic Moment Capacity for Compact, Braced section.
fs (Overload) is the sum of the stresses due to ML + MsL + 5/8(ML + I).
fs (Total) is the sum of the stresses due to 1.3IML + MsL + 5/8(ML + I).
* Service Load values.

INTERIOR BEAM MOMENT TABLE					
	0.4 Sp. #1 or 0.6 Sp. #5	Piers #1 & #4	0.5 Sp. #2 or 0.5 Sp. #4	Piers #2 & #3	0.5 Sp. #3
Is (in ⁴)	3270	3270	3270	3270	3270
Ic (in ⁴)	9565	9565	9565	9565	9565
Ss (in ³)	243	243	243	243	243
Sc (in ³)	371	371	371	371	371
Z (in ³)	278	278	278	278	278
W (K/ft.)	0.711	0.711	0.711	0.711	0.711
ML (K)	134.8	249.5	128.9	255.0	126.1
SL (K/ft.)	0.286	0.286	0.286	0.286	0.286
MsL (K)	64.3	75.2	74.9	81.8	71.6
ML (K)	327.6	181.5	367.0	200.6	370.7
M (Imp) (K)	92.3	49.4	96.4	52.6	97.3
5/8(ML + I) (K)	699.8	384.8	772.3	422.0	780.0
Ma (K)	1168.6	922.4	1269.0	986.4	1271.0
Mu (K)	1158.3	1158.3	1158.3	1158.3	1158.3
fs non-comp (K.s.i.)	6.7	16.0	6.4	16.6	6.2
fsL (comp) (K.s.i.)	2.1	2.4	2.4	2.3	2.3
fs5/8(ML + I) (K.s.i.)	22.6	19.0	25.0	20.8	25.2
fs (Overload) (K.s.i.)	31.4	35.0	33.8	37.4	33.7
fs (Total) (K.s.i.)	40.8	45.5	43.9	48.7	43.8
VR (K)	45.3	38.6	38.6	38.6	38.2

Notes: Two hardened washers shall be required over all 1/4\"/>

INTERIOR BEAM REACTION TABLE			
	Abuts.	Prs. 1 & 4	Prs. 2 & 3
RL (K)	20.0	64.8	65.4
RL (K)	32.3	38.8	40.4
Imp. (K)	9.1	10.6	10.6
R (Total) (K)	61.4	114.2	116.4

*** TOP OF FLANGE ELEVATIONS

	Br. W. Abut.	Pier #1	Splice #1	Pier #2	Splice #2	Splice #3	Pier #3	Splice #4	Pier #4	Br. E. Abut.
Beam #1	372.07	373.05	373.26	374.21	374.41	375.06	375.21	375.91	376.04	376.65
Beam #2	372.25	373.22	373.43	374.38	374.57	375.22	375.36	376.05	376.18	376.79
Beam #3	372.43	373.40	373.60	374.54	374.73	375.37	375.51	376.19	376.32	376.92
Beam #4	372.62	373.57	373.78	374.70	374.89	375.52	375.66	376.33	376.46	377.05
Beam #5	372.80	373.74	373.95	374.86	375.05	375.68	375.81	376.47	376.60	377.18
Beam #6	372.89	373.82	374.02	374.93	375.11	375.73	375.87	376.52	376.64	377.21
Beam #7	372.87	373.80	374.00	374.89	375.08	375.69	375.82	376.46	376.58	377.14
Beam #8	372.86	373.78	373.98	374.86	375.05	375.65	375.78	376.41	376.53	377.03
Beam #9	372.85	373.76	373.95	374.83	375.01	375.60	375.73	376.36	376.47	377.01
Beam #10	372.84	373.73	373.93	374.79	374.97	375.56	375.69	376.30	376.41	376.95

** For fabrication only.

DESIGNED David Burdick
CHECKED D. O. K. M. M. M.
DRAWN RON SOMMER
CHECKED DB D. K. M.

Sept 26 1985
EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]
DIRECTOR OF HIGHWAYS

I-2-D 8-30-80

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #3 S.N. 057-0064

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

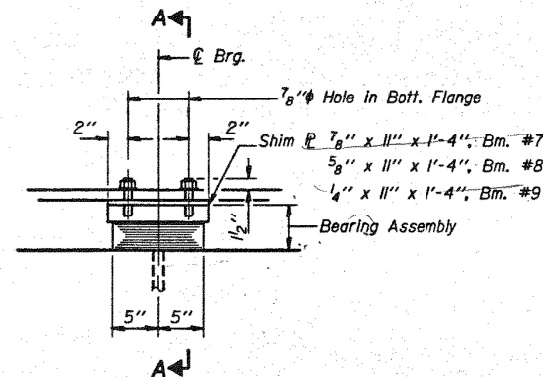
* FAI-55 & FAP 704

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	21
** D5 BRIDGE PAINTING 2024-1 CONTRACT NO. 70G12				
ILLINOIS FED. AID PROJECT				

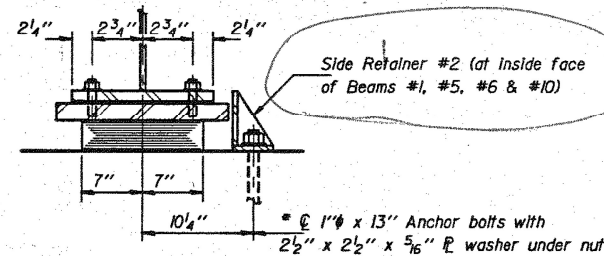
AS-BUILT PLANS FOR S.N. 057-0064
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. R. 704	IVBR	McLean	63	36
FED. ROAD DIST. NO. 7		SL. DICES	FED. AC. PROJECT-	

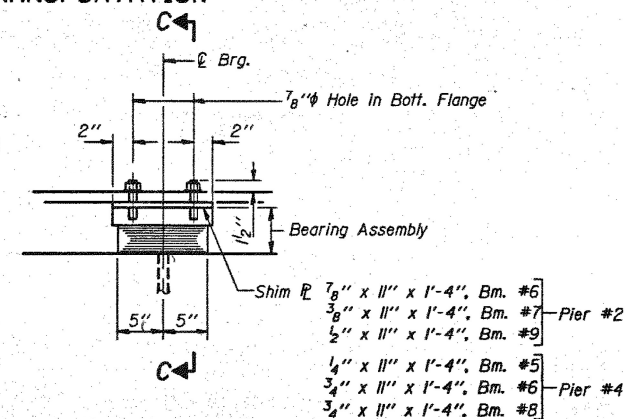
SHEET NO. 16
22 SHEETS



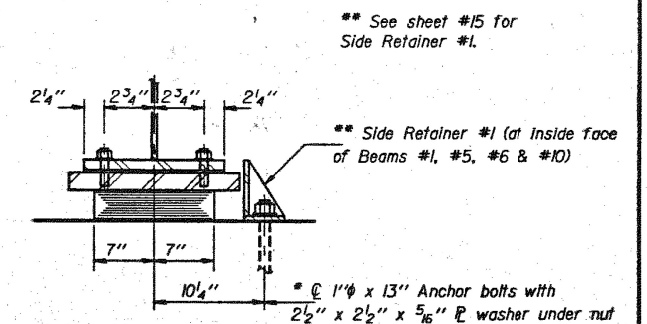
ELEVATION AT PIER #1



SECTION A-A

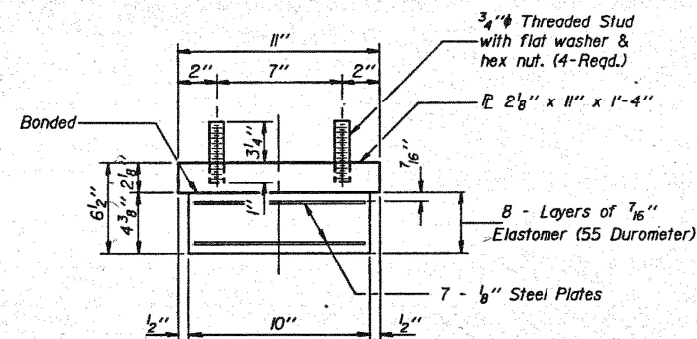


ELEVATION AT PIERS #2 & #4



SECTION C-C

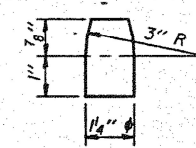
TYPE I ELASTOMERIC EXP. BRG.



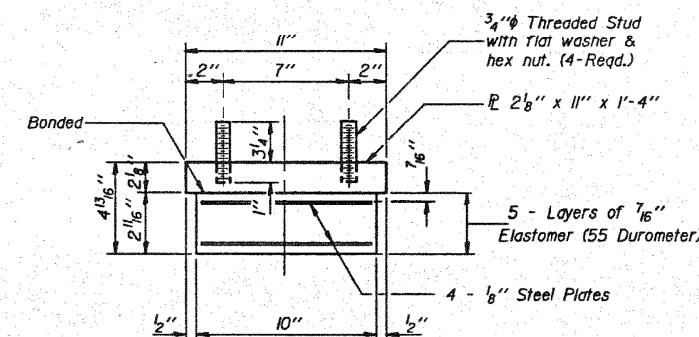
BEARING ASSEMBLY
(Pier #1)

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

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet #17 for Anchor Bolt Installation.
The structural steel bearing plates of the Elastomeric Bearing Assembly and the Fixed bearings shall conform to the requirements of A.A.S.H.T.O. M-222.

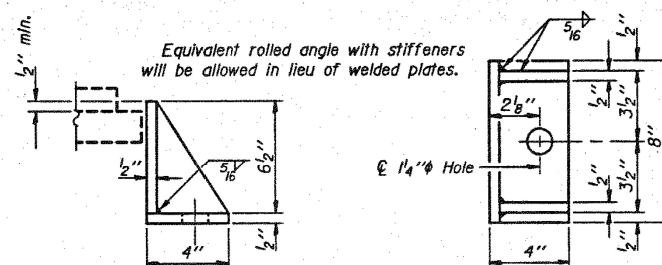


PINTLE

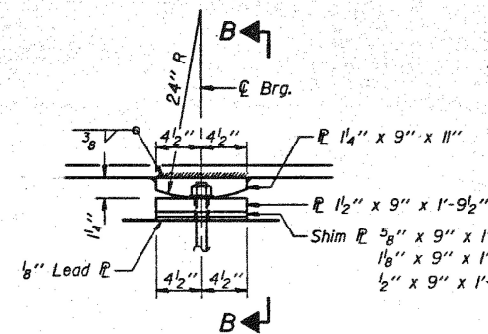


BEARING ASSEMBLY
(Piers #2 & #4)

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

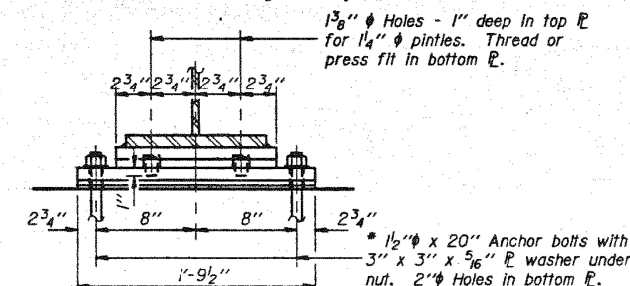


SIDE RETAINER #2
(4-Req'd.)

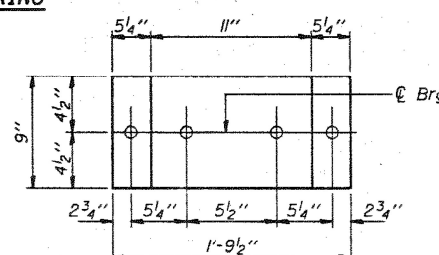


ELEVATION AT PIER #3

FIXED BEARING



SECTION B-B



PLAN - BOTTOM PLATE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	30

BEARING DETAILS
F.A. RTE. 704 SECTION 1-VBR
McLEAN COUNTY
STA. 74+41.00

DESIGNED *David Buechle*
CHECKED *David AK M-M-M*
DRAWN RON SOMMER
CHECKED DB DKM

I-2-E1 12-1-83

Sept. 26 1981
EXAMINED *Draj D. Kaspar*
ENGINEER OF BRIDGE DESIGN
PASSED *James T. Rayburn*
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED

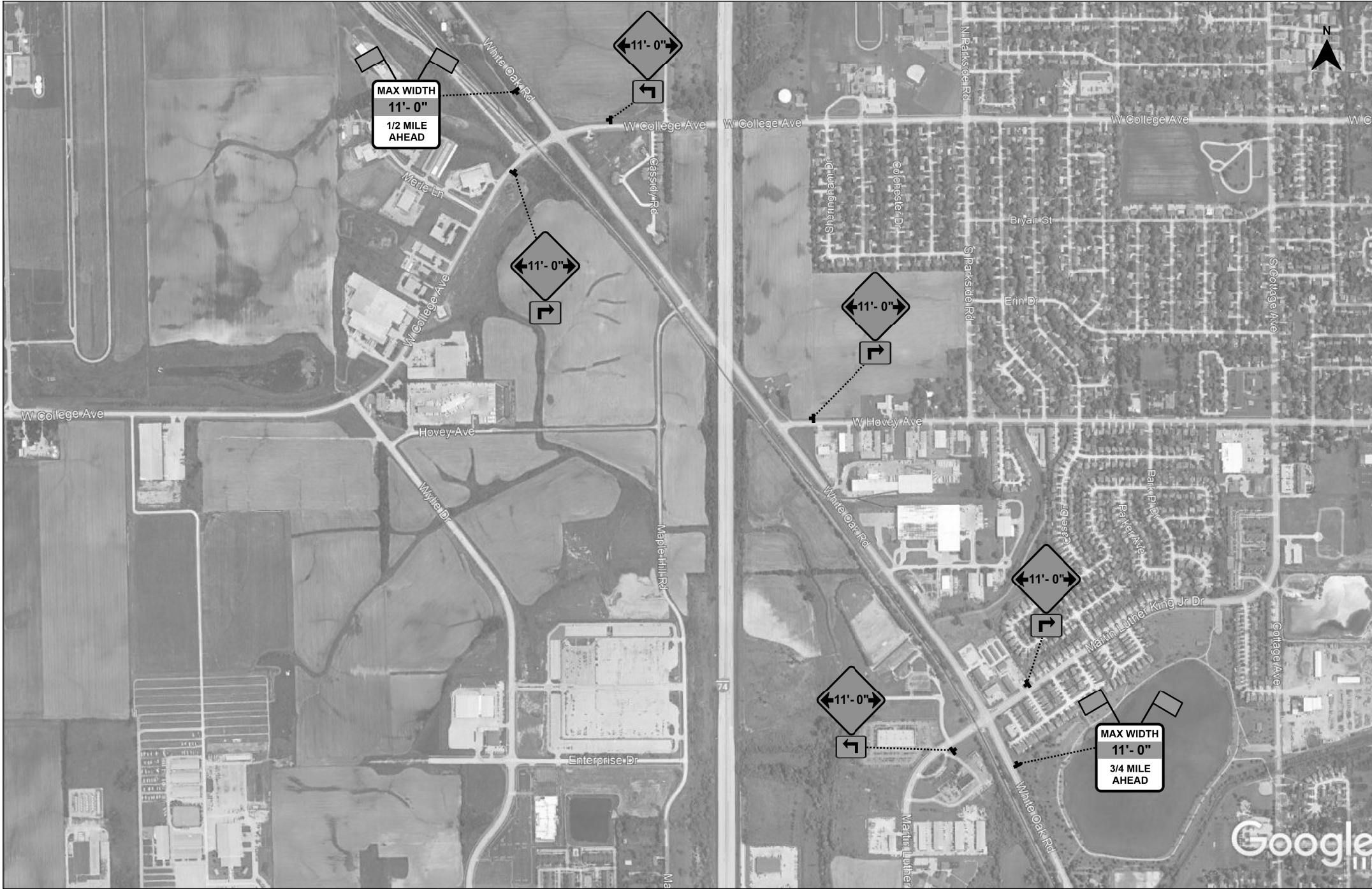
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AS-BUILT PLANS
LOCATION #3 S.N. 057-0064

SCALE: NONE	SHEET 5 OF 5 SHEETS	STA.	TO STA.
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* FAI-55 & FAP 704				
F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	23
** D5 BRIDGE PAINTING 2024-1			CONTRACT NO. 70G12	
		ILLINOIS	FED. AID PROJECT	

WIDTH RESTRICTION SIGNING



MODEL: s:\MODEL NAMES
FILE: 70G12-414-RS.dgn
PROJECT: D:\Projects\DOT\Office\Drawings\DOT\70G12-414-RS.dgn

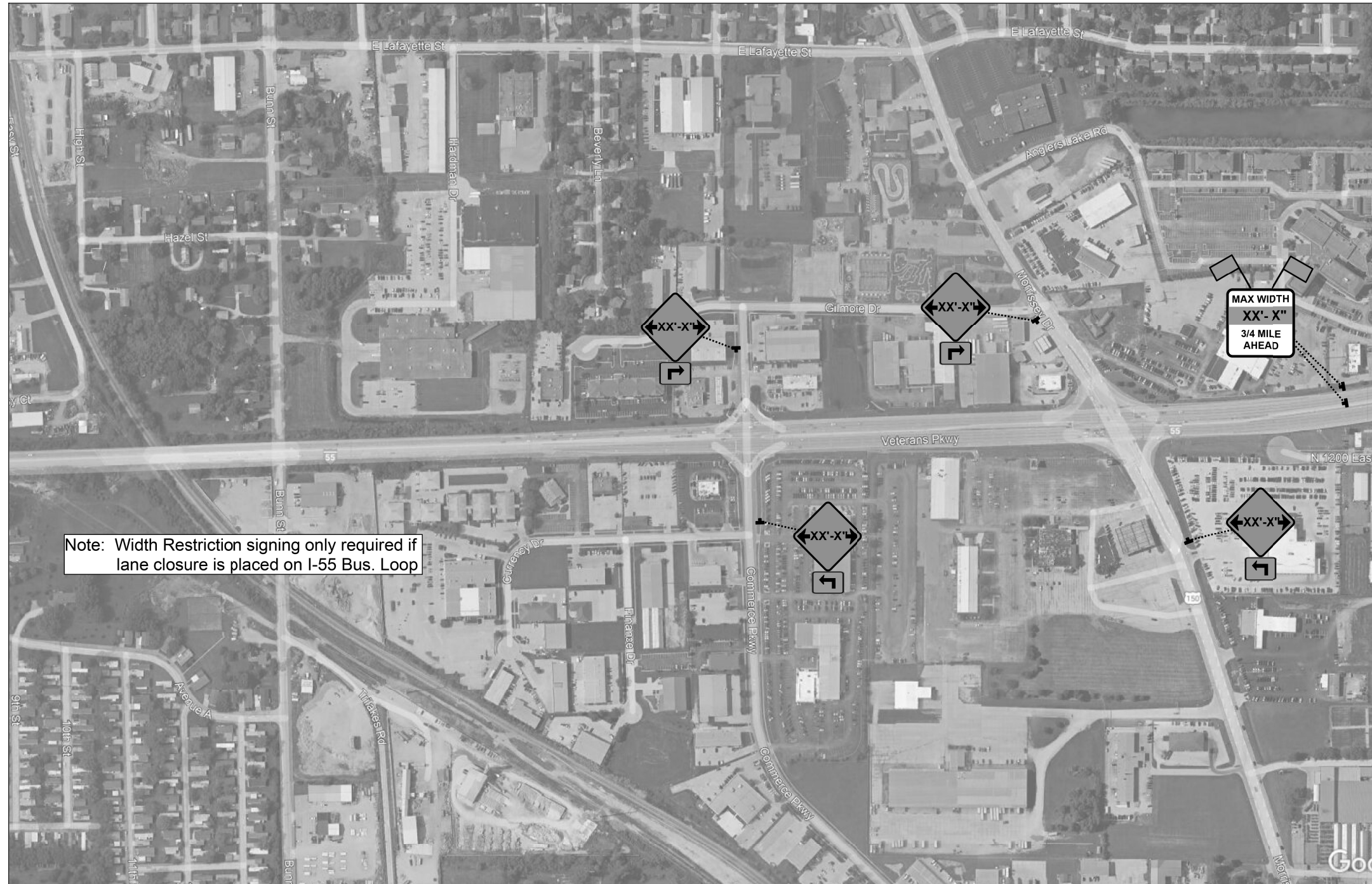
USER NAME	= Steven.Wood	DESIGNED	-	REVISED	-
DRAWN	-	REVISOR	-	REVISOR	-
PLOT SCALE	= 40,0000 * / in.	CHECKED	-	REVISOR	-
PLOT DATE	= 8/9/2023	DATE	-	REVISOR	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING			
LOCATION #1 & #2 OVER WHITE OAK RD.			
SCALE: NONE	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	**	MCLEAN	26	24
** D5 BRIDGE PAINTING 2024-1				CONTRACT NO. 70G12
ILLINOIS FED. AID PROJECT				

WIDTH RESTRICTION SIGNING



USER NAME = Steven,Wood	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/9/2023	DATE -	REVISED -

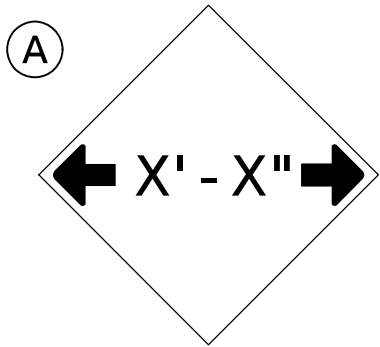
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING
LOCATION #3 I-55 BUSN

SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.
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F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11	1111	MCLEAN	26	25
		CONTRACT NO. 70G12		
ILLINOIS		FED. AID PROJECT		

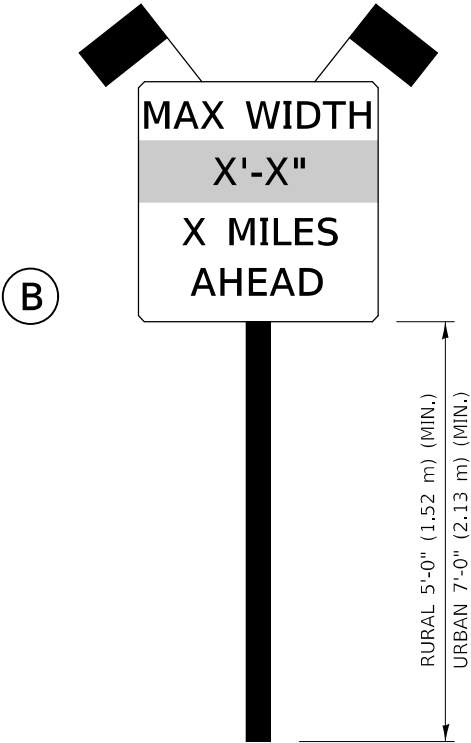
† D5 BRIDGE PAINTING 2024-1



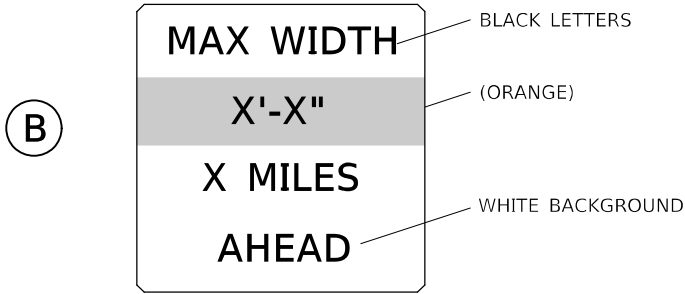
W12-2(O)-48"x48"(1200x1200)

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.

* FAI-55 & FAP 704

DISTRICT 5 DETAIL NO. X7200201

	USER NAME = Steven.Wood	DESIGNED -	REVISED - 05/08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING			F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - 10/08 KJT					*	**	MCLEAN	26	26
	PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED - 07/09 KJT					* D5 BRIDGE PAINTING 2024-1				
	PLOT DATE = 8/9/2023	DATE -	REVISED - 03/11 KJT		SCALE: NONE	SHEET 3	OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		