

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	1
		ILLINOIS	CONTRACT NO. 74C93	

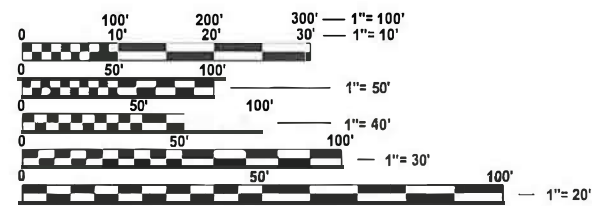
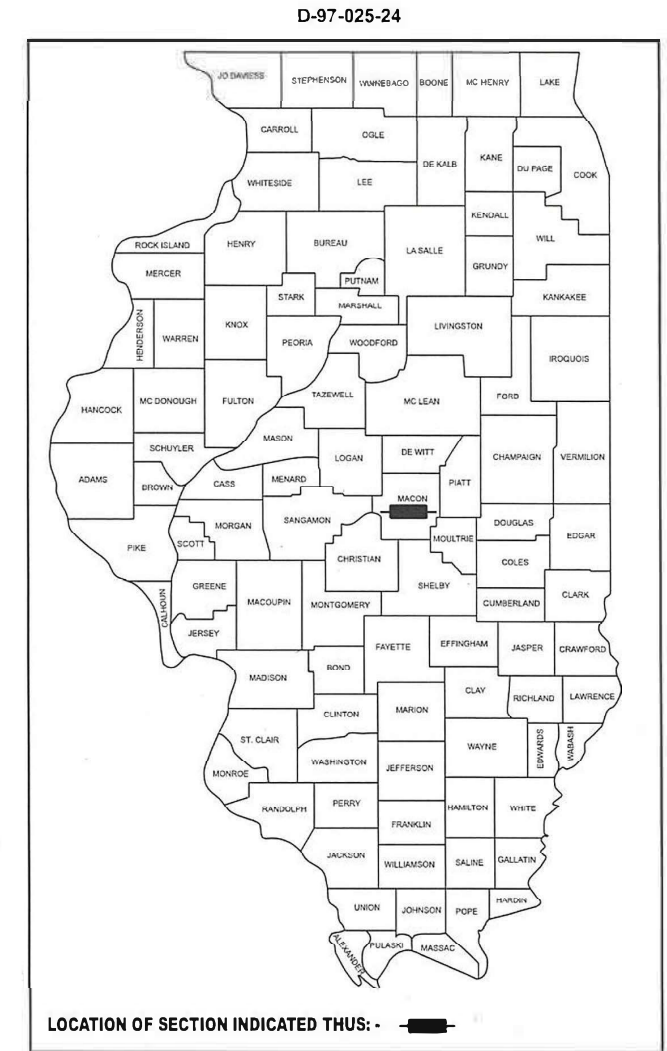
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

**VARIOUS ROUTES
SECTION D7 BRIDGE PAINTING 2024-3
BRIDGE PAINTING**

COUNTY MACON

C-97-054-24

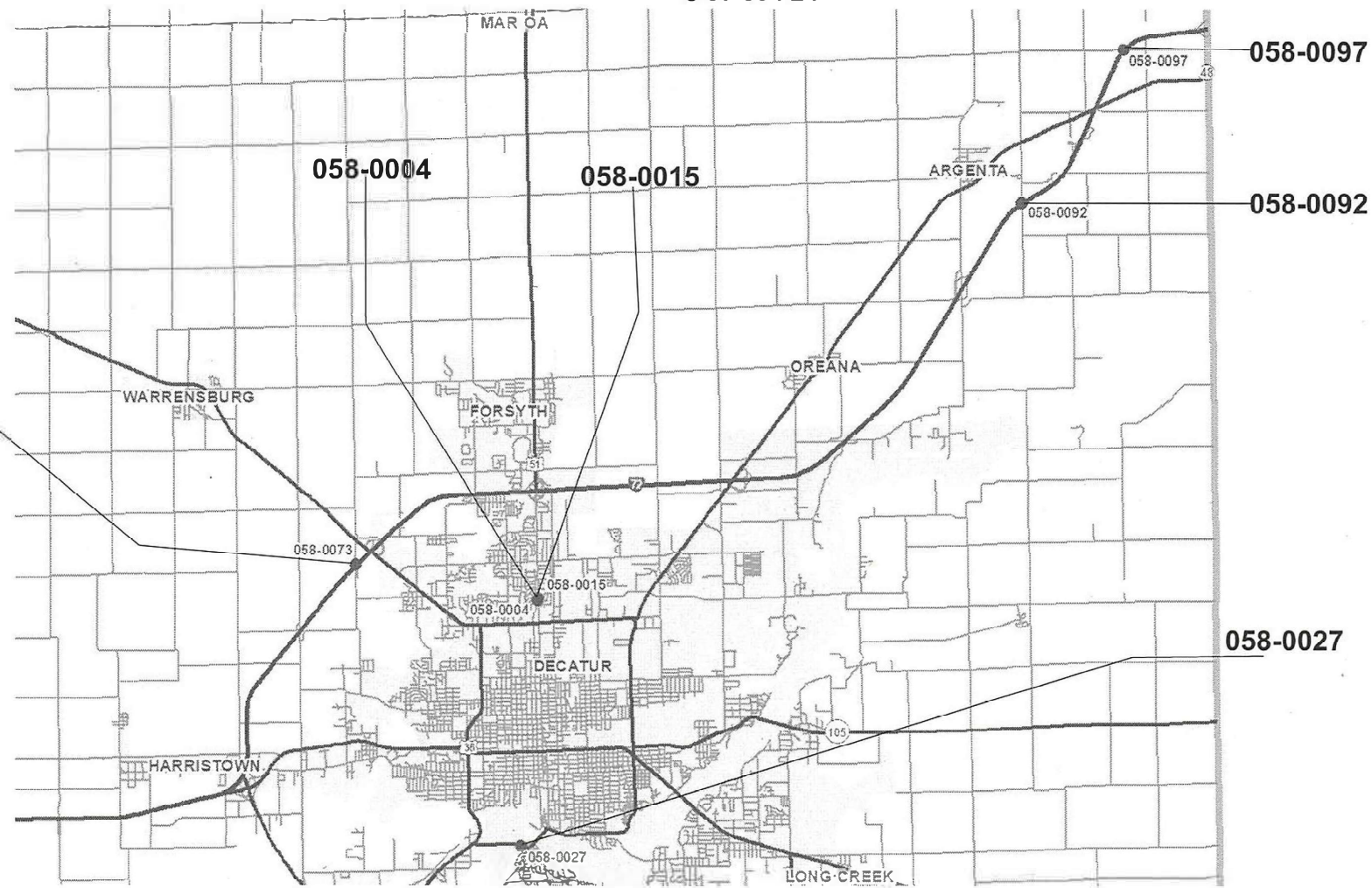


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER MATT BOWER
PROJECT MANAGER TREVOR WILL
PHONE: (217) 342-8359

CONTRACT NO. 74C93



GROSS LENGTH = N/A FT. = N/A MILE
NET LENGTH = N/A FT. = N/A MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 27 2024
Jeffrey P. Reynolds
REGIONAL ENGINEER

May 10, 2024 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 6 LOCATIONS: ON I 72 AND US 51 AND IL 105. IN MACON COUNTY.

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

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

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

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

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTION.
3-4	SUMMARY OF QUANTITIES
5	LOCATION MAPS
6-7	STAGING PLANS FOR SN 058-0027
8-32	EXISTING STRUCTURE PLANS

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

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

LOCATION #1

ROUTE: FAI ROUTE US 51 SB
 MARKED: US-51
 SECTION: 50BR-2
 STATION: 13+142
 STRUCTURE NUMBER: 058-0004, CARRYING US 51 SB OVER SPRING CREEK 0.3 MILES NOTH OF PERSHING ROAD, MACON COUNTY

COLOR OF THE FINISH COAT SHALL BE GREEN, MUNSELL 10B 3/6.

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, ON ALL BEAMS, BEARINGS, AND DIAPHRAGMS, WITHIN 5' (MEASURED ALONG THE BEAM) OF THE ABUTMENTS AND ANY EXPANSION JOINTS SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. THE OUTSIDE AND BOTTOMS OF BOTH FASCIA BEAMS, FOR THE ENTIRE LENGTH OF THE BEAMS, SHALL BE CLEANED IN THEIR ENTIRETY BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. THIS STRUCTURE CONTAINS LEAD PAINT.

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

FOUR AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

LOCATION #2

ROUTE: FAI ROUTE US 51 NB
 MARKED: US 51
 SECTION: 50BR-2
 STATION: 6+058
 STRUCTURE NUMBER: 058-0015, CARRYING US 51 NB OVER SPRING CREEK 0.3 MILES NORTH OF PERSHING ROAD, MACON COUNTY

COLOR OF THE FINISH COAT SHALL BE GREEN, MUNSELL 10B 3/6.

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, ON ALL BEAMS, BEARINGS, AND DIAPHRAGMS, WITHIN 5' (MEASURED ALONG THE BEAM) OF THE ABUTMENTS AND ANY EXPANSION JOINTS SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. THE OUTSIDE AND BOTTOMS OF BOTH FASCIA BEAMS, FOR THE ENTIRE LENGTH OF THE BEAMS, SHALL BE CLEANED IN THEIR ENTIRETY BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. THIS STRUCTURE CONTAINS LEAD PAINT.

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

FOUR AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

LOCATION #3

ROUTE: FAI ROUTE
 MARKED:
 SECTION:
 STATION:
 STRUCTURE NUMBER: 058-0027, CN RR OVER IL 105
 MACON COUNTY

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

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEARINGS, AND DIAPHRAGMS, SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". THIS STRUCTURE CONTAINS LEAD PAINT.

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

FOUR AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

LOCATION #4

ROUTE: FAI ROUTE 72
 MARKED: US I-72
 SECTION: 58-62-1 HB-1
 STATION: 707+13
 STRUCTURE NUMBER: 058-0073, FAU 7345 OVER I-72
 MACON COUNTY

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

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEARINGS, AND DIAPHRAGMS, SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". THIS STRUCTURE CONTAINS LEAD PAINT.

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

FOUR AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

LOCATION #5

ROUTE: FAI ROUTE 72
 MARKED: I-72
 SECTION: 58-65-HB-3
 STATION: 691+68
 STRUCTURE NUMBER: 058-0092, TR 270 CEMETARY RD OVER I-72
 MACON COUNTY

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

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEARINGS, AND DIAPHRAGMS, SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". THIS STRUCTURE CONTAINS LEAD PAINT.

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

TWO AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

LOCATION #6

ROUTE: FAI ROUTE 72
 MARKED: I-72
 SECTION: 58-66-HB-1
 STATION: 854+91
 STRUCTURE NUMBER: 058-0097, CH 18 OVER I-72
 MACON COUNTY

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

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEARINGS, AND DIAPHRAGMS, SHALL BE CLEANED BY SSPC-SP10- NEAR WHITE METAL BLAST CLEANING. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". THIS STRUCTURE CONTAINS LEAD PAINT.

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

NO AIR MONITORS WILL BE REQUIRED AT THIS LOCATION.

REV. - MS

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PLOT DATE = 3/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES,
 AND BRIDGE LOCATIONS

SCALE: SHEET OF SHEETS STA. TO STA.

FA RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024	MACON	32	2
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				

100% STATE

100% STATE

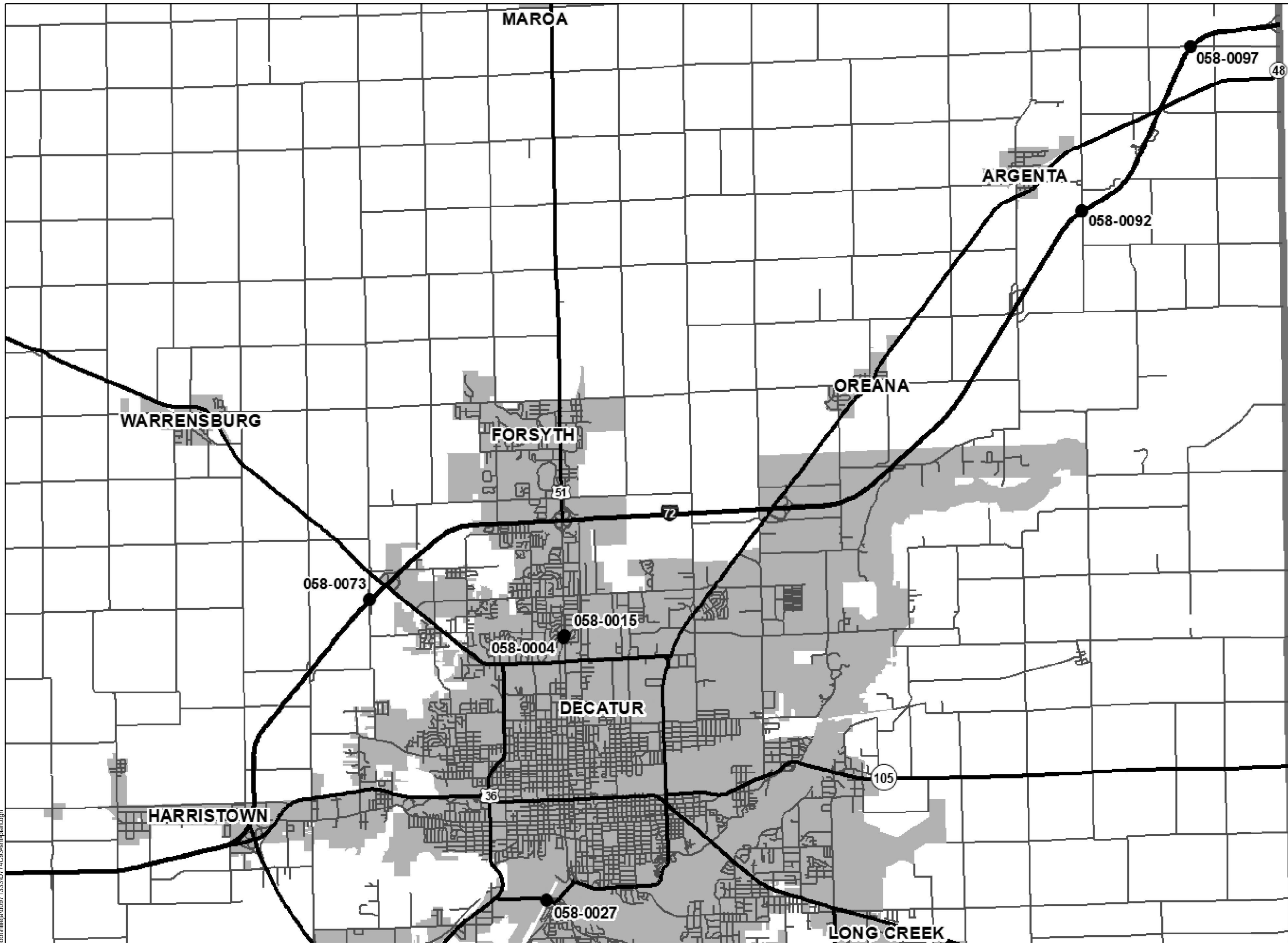
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CODE NO	ITEM	UNIT		0047		
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	8	8		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1200	1200		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	100	100		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3600	3600		
70600241	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	3		
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	1	1		
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	9	9		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
X7010210	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411 (SPECIAL)	EACH	2	2		
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1		
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1		
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1	1		
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1	1		
Z0007105	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1	1		
Z0007106	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 6	L SUM	1	1		
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1		
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1		
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1		
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1	1		

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REV. - MS

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	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



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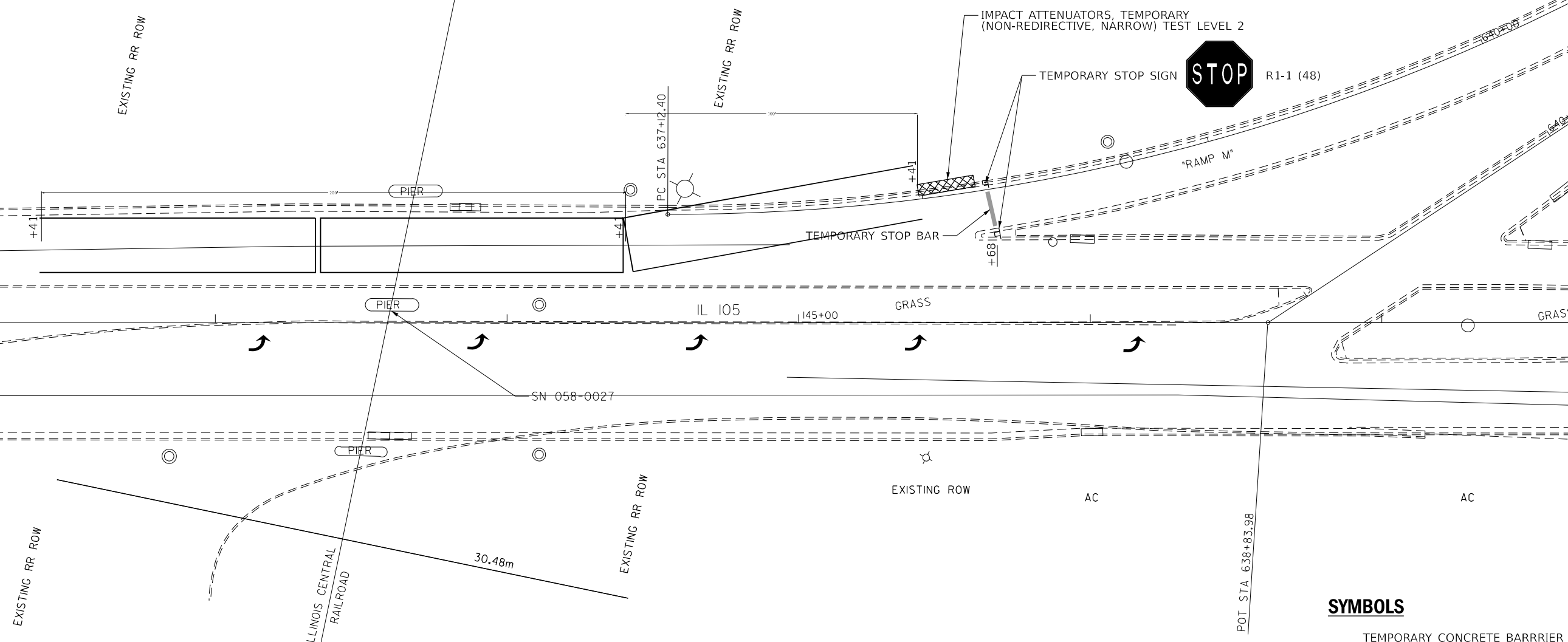
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PLOT DATE = 3/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Location Maps
Locations 1-6

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	5
CONTRACT NO. 74C93				
		ILLINOIS	FED. AID PROJECT	



SYMBOLS

- TEMPORARY CONCRETE BARRRIER
- IMPACT ATTENUATOR

NOTES

SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701402 AND 701411 FOR INFORMATION NOT SHOWN ON THIS SHEET.

NOT TO SCALE

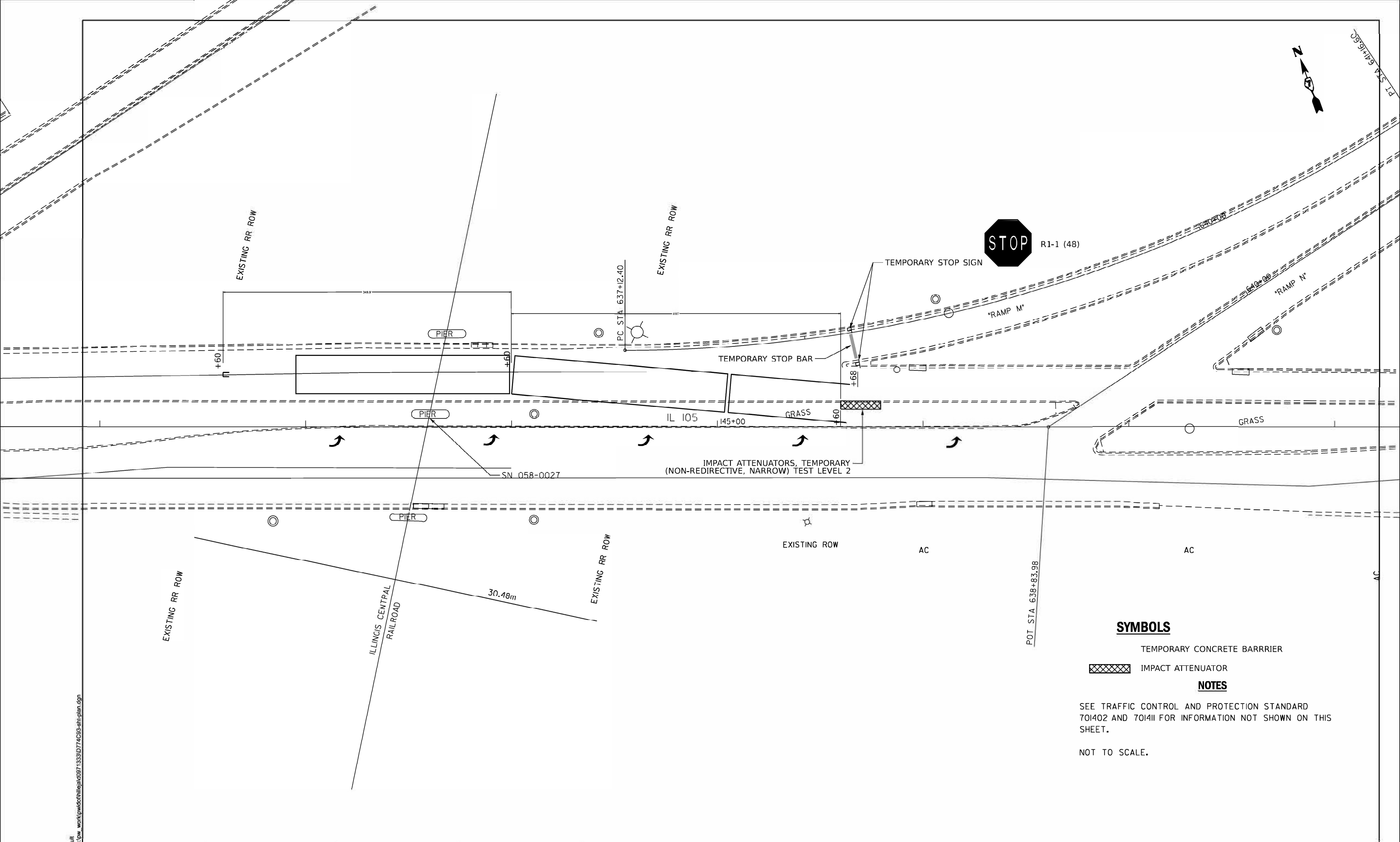
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 SN 058-0027			
SCALE:	SHEET	OF	SHEETS
	STATION	TO	STATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	6
CONTRACT NO. 74C93				
ILLINOIS		FED. AID PROJECT		



SYMBOLS

- TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR

NOTES

SEE TRAFFIC CONTROL AND PROTECTION STANDARD 701402 AND 701411 FOR INFORMATION NOT SHOWN ON THIS SHEET.

NOT TO SCALE.

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PLOT DATE = 3/22/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

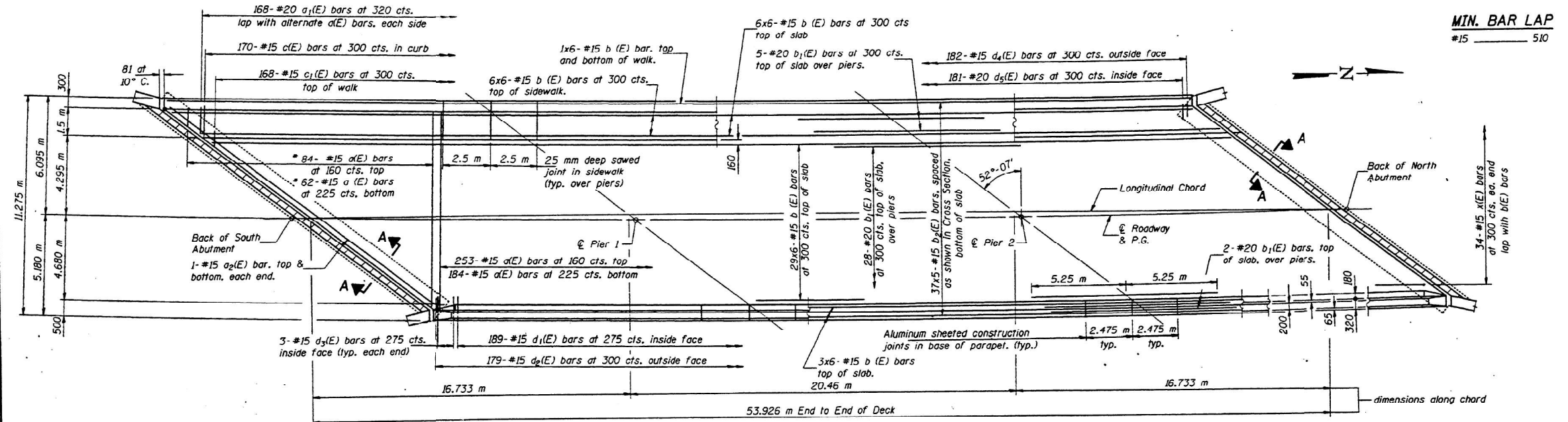
STAGE 2 SN 058-0027			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

FA RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	7
CONTRACT NO. 74C93				
ILLINOIS FEDERAL PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

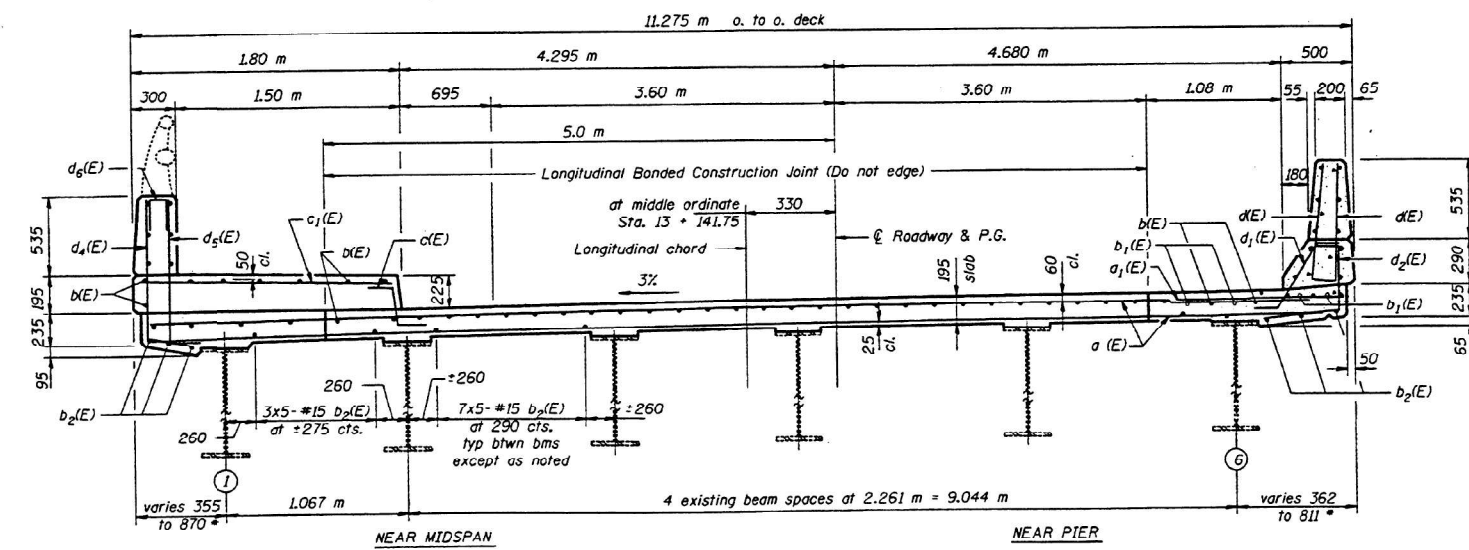
PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FA 710	50BR-2	MACON	69	33
TOTAL SHEETS				16 SHEETS

• Order bars full length, cut to fit skew and use remainder of bars in opposite end.



MIN. BAR LAP
#15 510

PLAN



CROSS SECTION
(Looking North)

Notes:
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
 Drains shall be located clear of all diaphragms.
 All transverse dimensions are given radially unless otherwise detailed.
 Longitudinal dimensions are taken along the longitudinal chord, unless otherwise detailed.

DESIGNED <i>A. G. Gonzalez</i>	SEPT 8 1993
CHECKED <i>Richard H. Clark</i>	EXAMINED <i>Gregory J. Kasper</i>
DRAWN KG	PASSED <i>Robert E. Anderson</i>
CHECKED <i>J.G. RJC</i>	

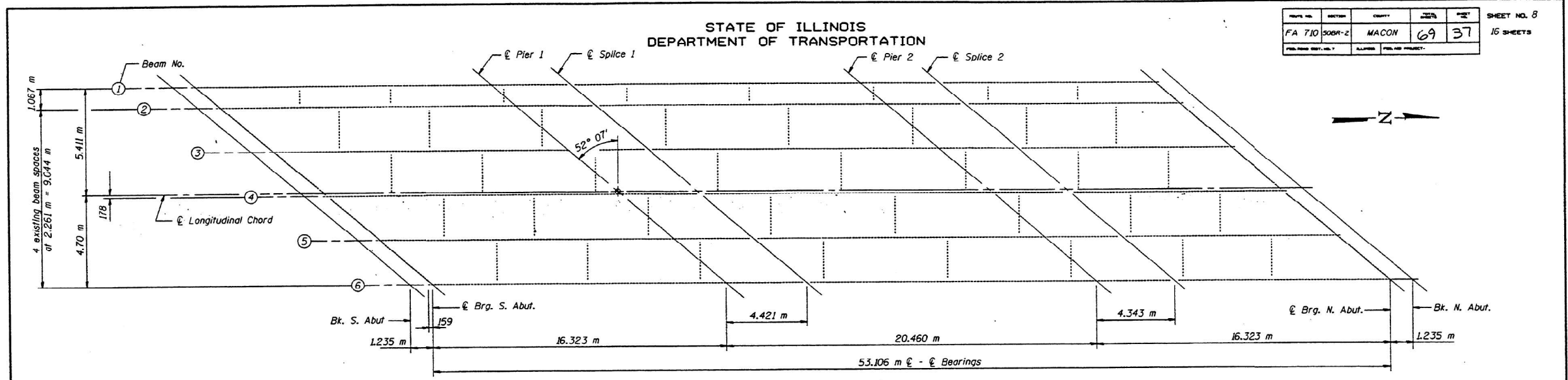
• See Deck Overhang Plan on Sheet 3 of 16.

Work this sheet with Sheets 5 & 6.
SUPERSTRUCTURE
F.A. RT. 710 - SECTION 50BR-2
MACON COUNTY
STATION 13 + 142.116

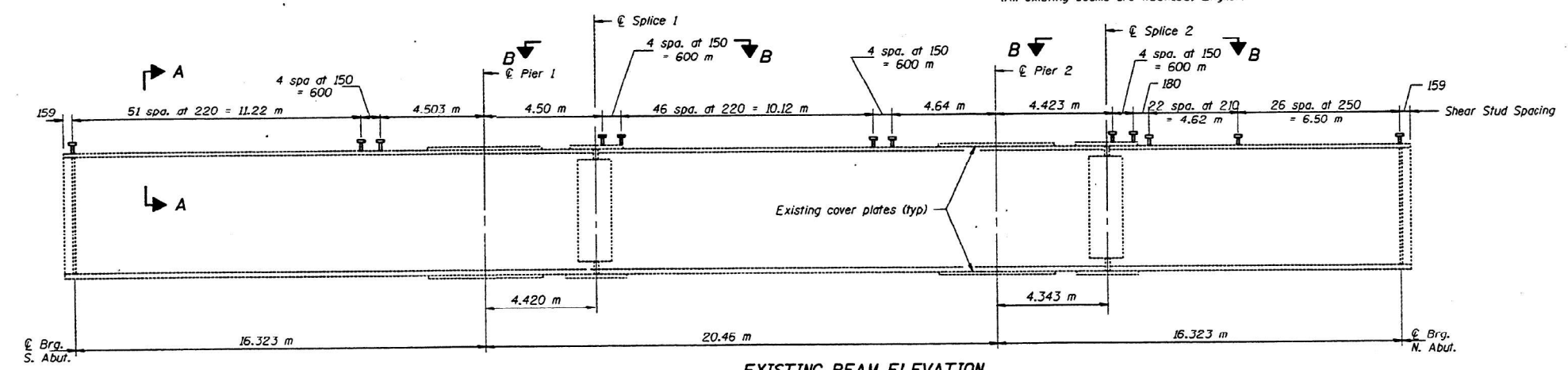
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PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -			VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	9		
PLOT DATE = 3/22/2024	CHECKED -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
	DATE -	REVISED -									

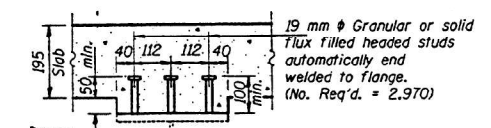
PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 8
FA 710	50BR-2	MACON	69	37
TOTAL SHEETS				16 SHEETS



EXISTING FRAMING PLAN
(All existing beams are W36x135, English)

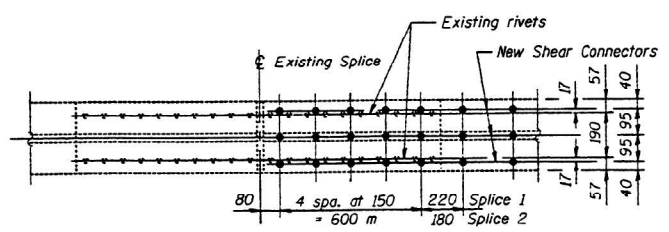


EXISTING BEAM ELEVATION



SECTION A-A

* Fillet heights will vary from 63 mm to 112 mm.



VIEW B-B

DESIGNED: *Allen Gorenvick*
 CHECKED: *Richard J. Christ*
 DRAWN: *KG*
 CHECKED: *J.G. RSC*

SEPT 8 1999
 EXAMINED: *Raj O. Kaspar*
 PASSED: *Ralph E. Anderson*

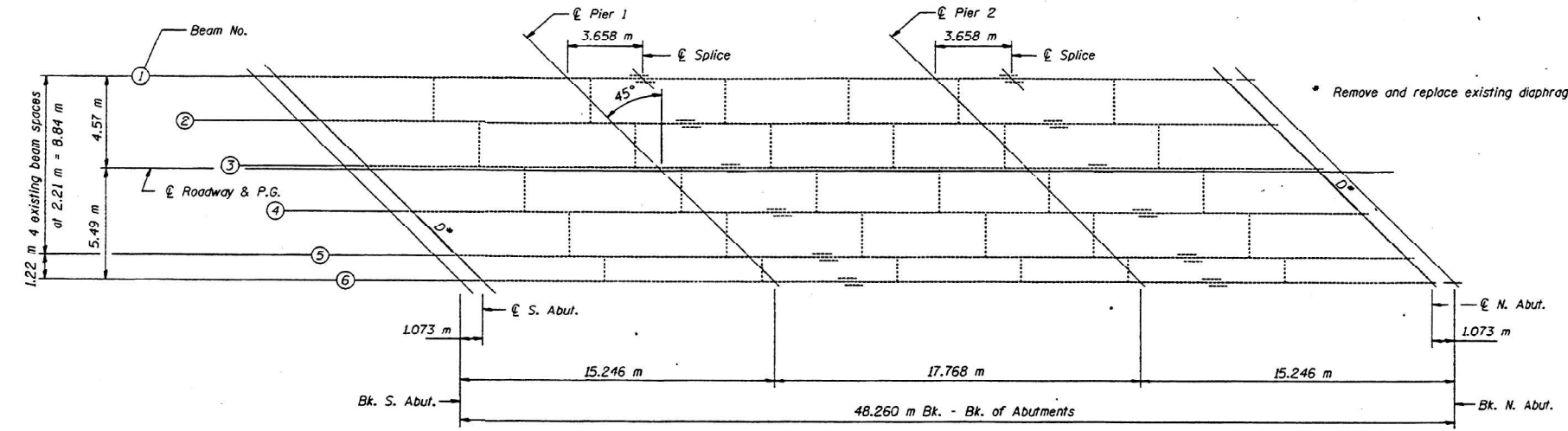
STRUCTURAL STEEL DETAILS
F.A. RT. 710 - SECTION 50BR-2
MACON COUNTY
STATION 13 + 142.116

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USER NAME = jessica.hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS SN 058-0004			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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PLOT DATE = 3/22/2024	CHECKED -	REVISED -								CONTRACT NO. 74C93				
	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

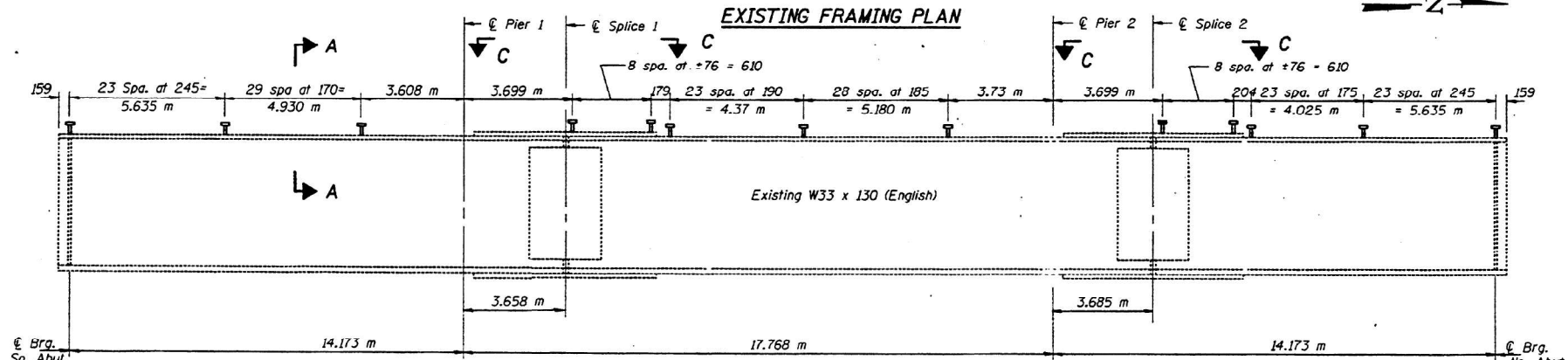
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 710	50BR-2	MACON	15	8



INTERIOR GIRDER REACTION TABLE

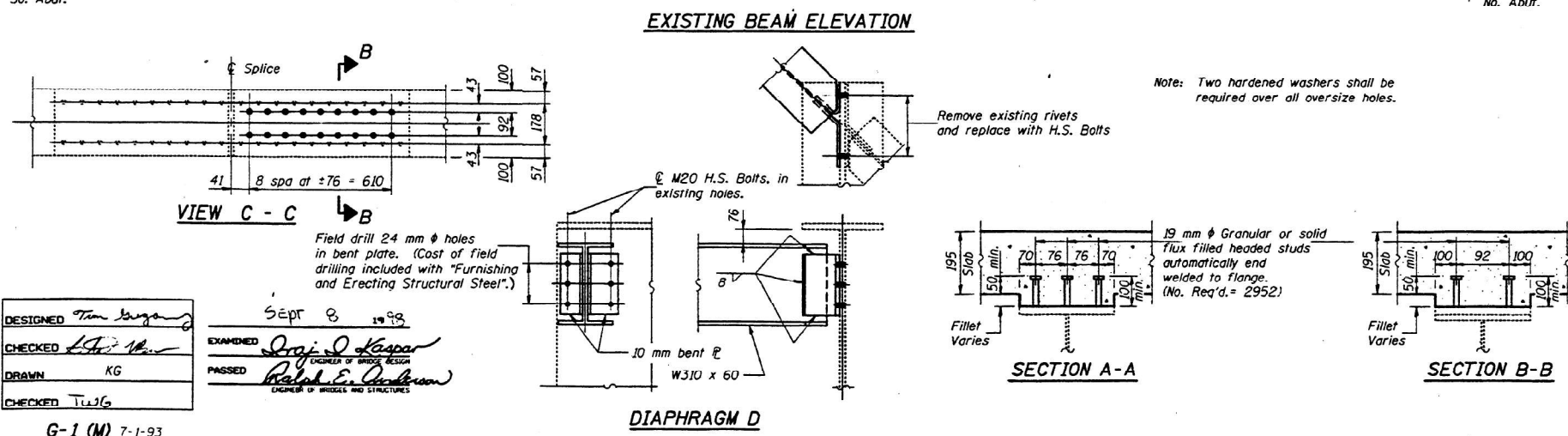
	Abuts.	Piers
R _l (kN)	99	324
R _t (kN)	164	198
Imp. (kN)	49	59
R (Total) (kN)	312	581

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).
 I_{cs} and S_{cs} are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 I_{csn} and S_{csn} are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (See AASHTO 10.38)
 VR is the maximum Live Load + Impact shear range in span.
 Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
 M_a (Applied Moment) = 1.3(M_l + M_s + M_{imp})
 The Plastic Moment Capacity (M_u) is computed according to AASHTO 10.48.1 and 10.50.1.1.
 fs (Overload) is the sum of the stresses due to M_l + M_s + M_{imp}.
 fs (Total) (Non-compact section) is the sum of the stresses due to 1.3(M_l + M_s + M_{imp}).



INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1 & 0.6 Sp. 2	0.5 Sp. 2	Piers 1 or 2
I _s (10 ⁶ mm ⁴)	2780	2780	2780
I _c (n) (10 ⁶ mm ⁴)	7300	7300	-
I _c (3n) (10 ⁶ mm ⁴)	5430	5430	-
S _s (10 ³ mm ³)	6620	6620	6620
S _c (n) (10 ³ mm ³)	9580	9580	-
S _c (3n) (10 ³ mm ³)	8710	8710	-
Z (10 ³ mm ³)	-	-	7620
W (kN/m)	12.58	12.58	18.33
M _l (kN-m)	172.9	170.7	442.5
s _l (kN/m)	5.75	5.75	-
M _s (kN-m)	91.9	110.1	-
M _t (kN-m)	431	481.3	242.9
M (Imp) (kN-m)	129.3	144.4	72.9
S _s (M _l +M _{imp})(kN-m)	933.8	1042.8	526.3
M _a (kN-m)	1198.7	1323.7	968.9
M _u (kN-m)	1558.3	1720.8	1259.5
fs _l non-comp (MPa)	26.1	25.8	66.9
fs _l (comp) (MPa)	10.6	12.7	-
fs _s (k=Imp) (MPa)	97.5	108.9	79.5
fs (Overload) (MPa)	134.2	147.4	146.4
fs (Total) (MPa)	174.5	191.6	190.3
VR (kN)	231.3	245	-



DESIGNED: *Tom Long*
 CHECKED: *KG*
 DRAWN: *KG*
 CHECKED: *TWJG*

EXAMINED: *Greg J. Kaspar*
 PASSED: *Ralph E. ...*

SEPT 8 1998

G-1 (M) 7-1-93

STRUCTURAL STEEL DETAILS
 F.A. RT. 710 - SECTION 50BR-2
 MACON COUNTY
 STATION 6 + 058.158

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 SN 058-0015

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	11
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FA 710	50BR-2	MACON	69	46	SHEET NO. 1
					15 SHEETS

Bench Mark: #4487-2 Chiseled "□" Top of concrete slope wall at south abutment Elev. 193.867

Existing Structure: S.N. 058-0015 (N.B.) Built in 1965 as S.B.I. 2 (F.A. Route 710), Section 50BR
The existing superstructure consists of a R.C. deck supported on 3 span continuous W840 beams with 18.26 m Bk. to Bk. abutments along the long chord and 11.28 m Out to Out deck. The existing R.C. deck is to be removed and replaced with a new 195 mm thick, 11.28 m Out to Out deck. The traffic shall be diverted to the adjacent structure, S.N. 058-0004(S.B.) with the use of temporary median cross-over, see roadway plans.

Savage: existing aluminum rail

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts M22 ϕ , open holes 24mm ϕ , unless otherwise noted.

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

Reinforcement bars shall conform to the requirements of AASHTO M31M, M42M or M53M Grade 400.

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

The concrete, for bridge floors finished according to Article 503.17 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of the bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.

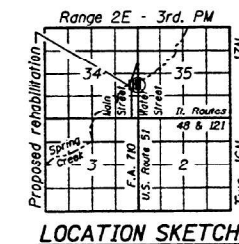
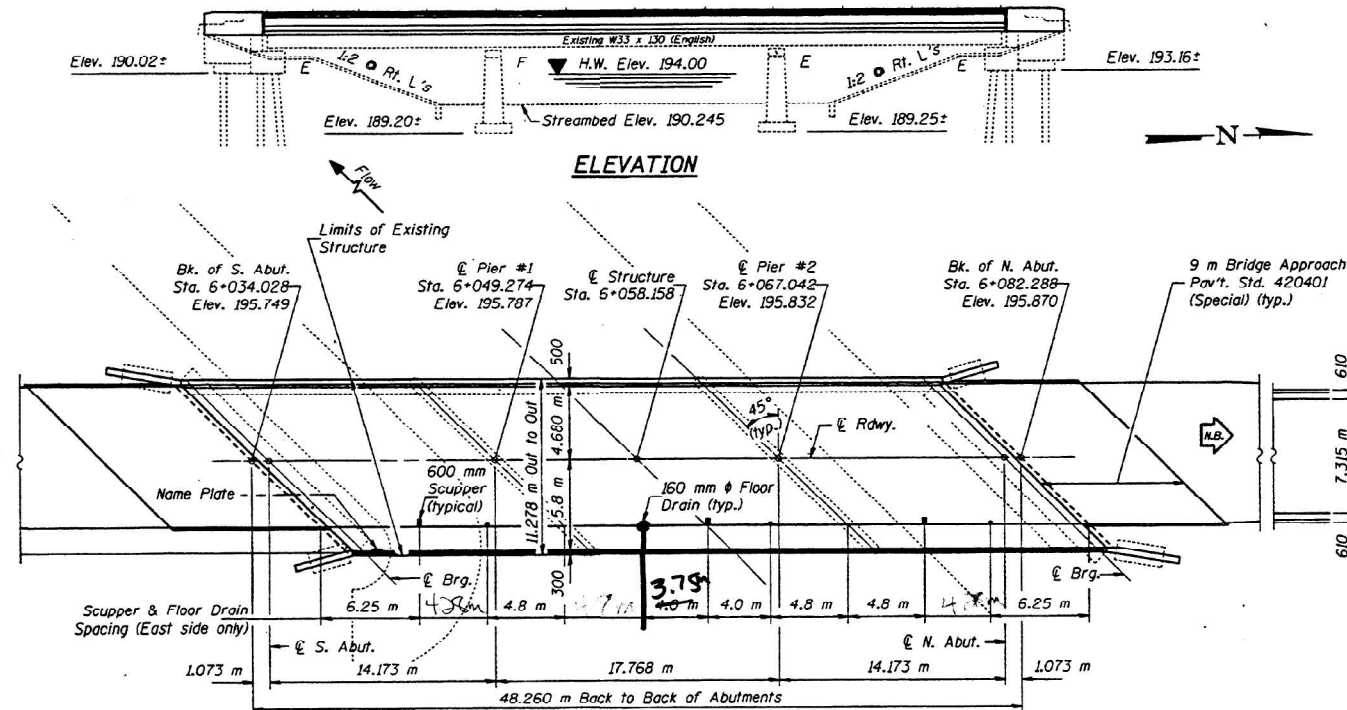
Prior to pouring the new concrete for the deck, all loose rust, loose mill scale and all other loose, detrimental foreign material shall be removed from the portions of flanges of stringers (girders) in contact with concrete. The removal shall be accomplished in accordance with the requirements of the SSPC Surface Preparation Specifications SP-3 for power tool cleaning or SP-2 for hand tool cleaning. Cost shall be included with "Concrete Superstructures".

The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

All new structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type I. Field painting of new and existing structural steel shall be done under a separate painting contract.

Two 3 mm adjusting shims, of the dimension 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 shall be provided and placed as detailed.

All dimensions are in millimeters (mm) except as noted.
See Special Provisions for Bonded Construction Joint



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPLR	SUB	TOTAL
Concrete Superstructures	m ³	156.4		156.4
Concrete Structures	m ³		7.5	7.5
Removal of Existing Concrete Deck	Each	1		1
Concrete Removal	m ³		11.2	11.2
Reinforcement Bars, Epoxy Coated	kg	20780	960	21740
Protective Coat	m ²	591		591
Jack and Remove Existing Bearings	Each	12		12
Elastomeric Bearing Assembly, Type I	Each	6		6
Elastomeric Bearing Assembly, Type II	Each	6		6
Furnishing and Erecting Structural Steel	kg	1250		1250
Stud Shear Connectors	Each	2952		2952
Name Plates	Each		1	1
Floor Drains	Each	4		4
Drainage Scuppers	Each	3		3
Bridge Deck Grooving	m ²	393		393
Formed Concrete Repair (Depth Less Than or Equal to 125 mm)	m ²	5		5
Formed Concrete Repair (Depth Greater Than 125 mm)	m ²	2		2
Epoxy Crack Sealing	m		10	10
Neoprene Expansion Joint 50	m	31.0		31.0
Remove and Re-Erect Existing Railing	m	47		47
Structural Steel Removal	kg	380		380

* Quantity includes deck, and top and inside surfaces of concrete.

GENERAL PLAN
U.S. ROUTE 51 (N.B.) / WATER STREET
OVER SPRING CREEK
F.A. ROUTE 710 - SECTION 50BR-2
MACON COUNTY
STATION 6+058.158
STRUCTURE NO. 058-0015

LOADING MS18
Allow 1.2 kN/m² For future wearing surface.

DESIGN SPECIFICATIONS
1996 AASHTO

DESIGN STRESSES

FIELD UNITS (New Construction)

$f_c = 24$ MPa

$f_y = 400$ MPa (reinforcement)

FIELD UNITS (Existing Construction)

$f_c = 9.65$ MPa

$f_s = 138$ MPa (reinforcement)

$f_y = 250$ MPa (structural steel)

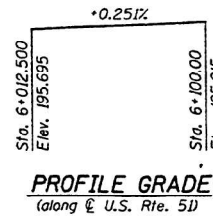
SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.047g
Site Coefficient (S) = 1.2

STATION 6 + 058.158
RE-BUILT 199 , BY
STATE OF ILLINOIS
F.A. RT. 710, SECTION 50BR-2
F.A. PROJ.
LOADING MS18
STR. NO. 058-0015

NAME PLATE
See Std. 515001

The existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with "Name Plates".



DESIGNED *Tammy Kraganec*
CHECKED *TD Mann*
DRAWN
CHECKED TWG

SEPT 8 19 99
EXAMINED *Dr. J. Kauper*
PASSED *Richard E. Rasmussen*
CHIEF OF BRIDGES AND STRUCTURES



EXPIRES 11-30-98

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 058-0015

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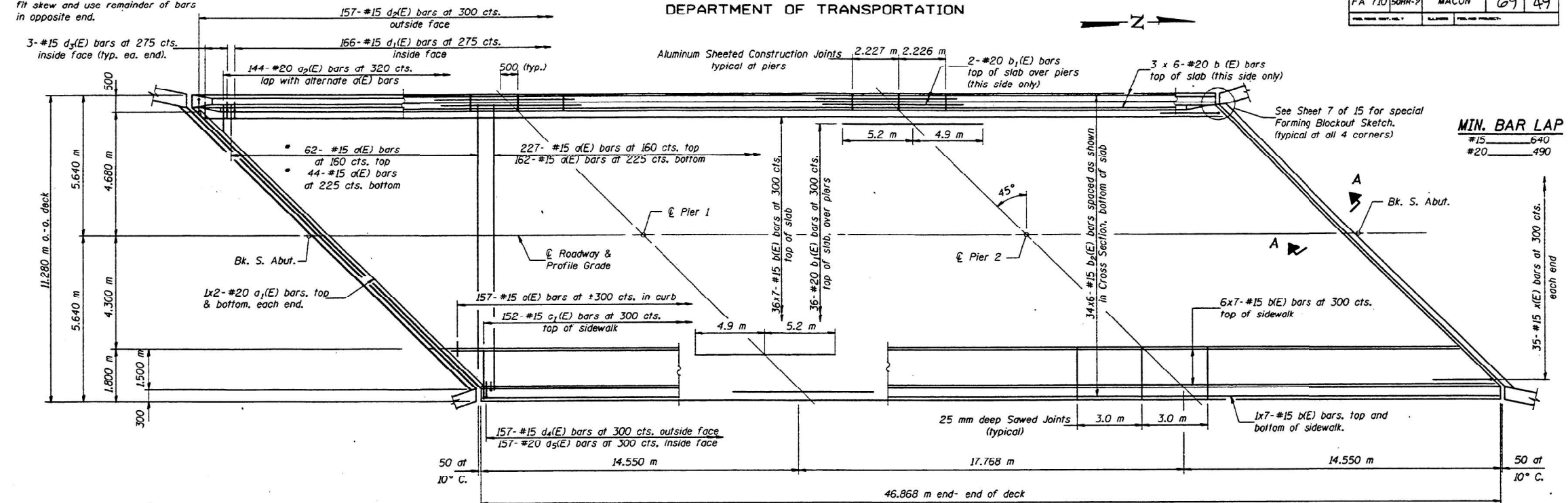
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VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	12
CONTRACT NO. 74C93				
ILLINOIS		FED. AID PROJECT		

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	DATE -	REVISED -

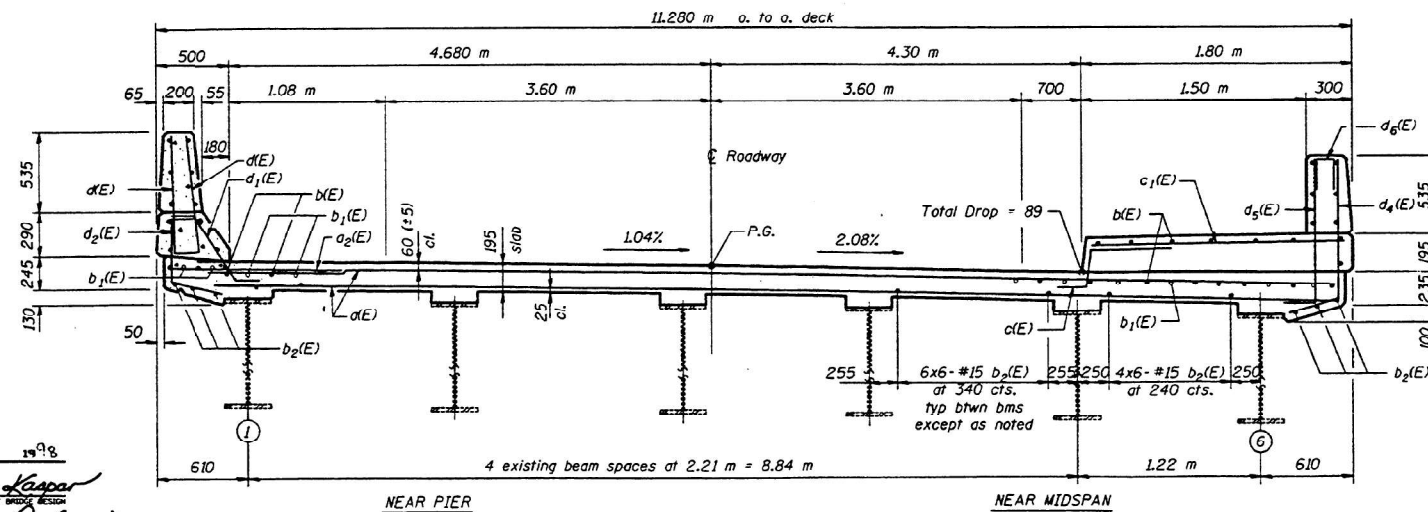
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FA 710	50BR-2	MACON	69	15

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



PLAN



CROSS SECTION
(Looking North)

Notes: See Sheet 5 of 15 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheets 5 & 6 of 15 for parapet reinforcement.
See Sheet 6 of 15 for Section A-A.

SUPERSTRUCTURE
F.A. RT. 710 - SECTION 50BR-2
MACON COUNTY
STATION 6 + 058.158

DESIGNED	Tim Bergman
CHECKED	John J. Kasper
DRAWN	KG
CHECKED	Twb

SEPT 9 1998
EXAMINED
PASSED
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

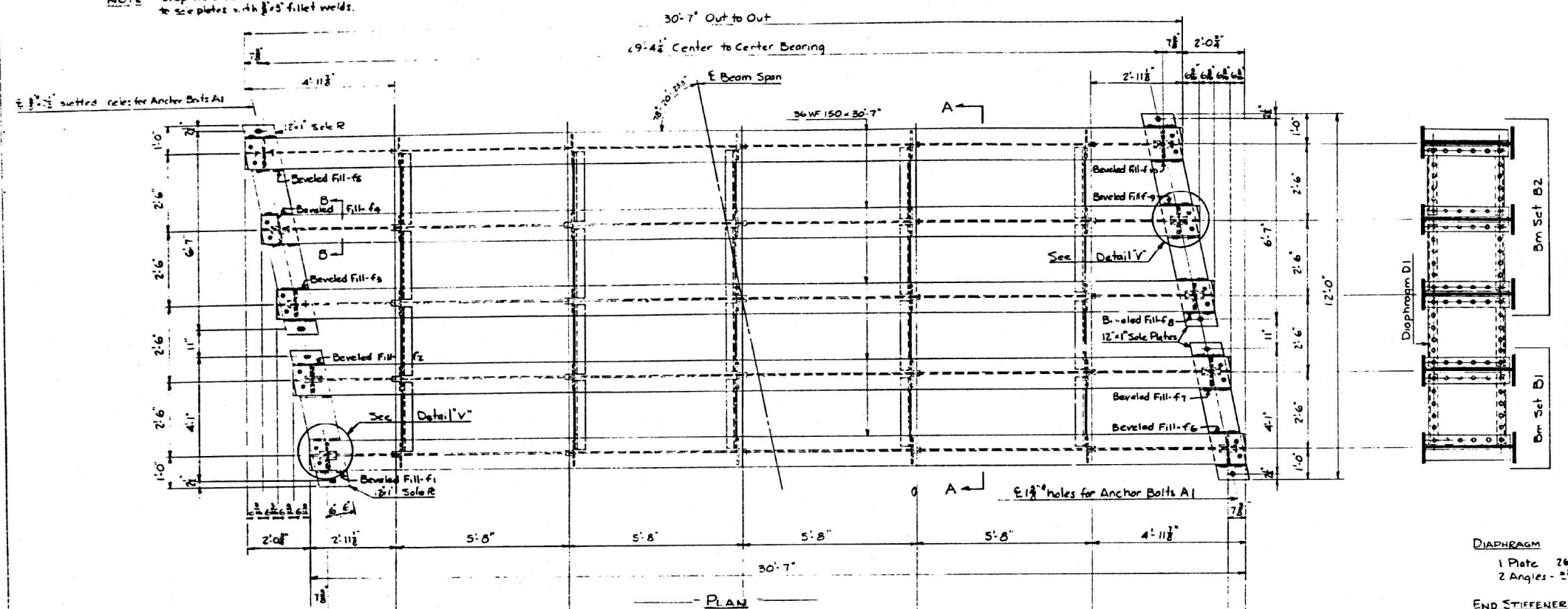
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 058-0015

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 74C93	
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PLOT DATE = 3/22/2024	CHECKED -	REVISED -
	DATE -	REVISED -

NOTE Shop weld beams to fills and fills to steel plates with 1/2" fillet welds.



REQUIRED LIST

No.	Description	Mark
1	Beam Set	B1
1	Beam Set	B2
5	Diaphragms	D1
2	Masonry Plates	M
8	Anchor Bolts	A1

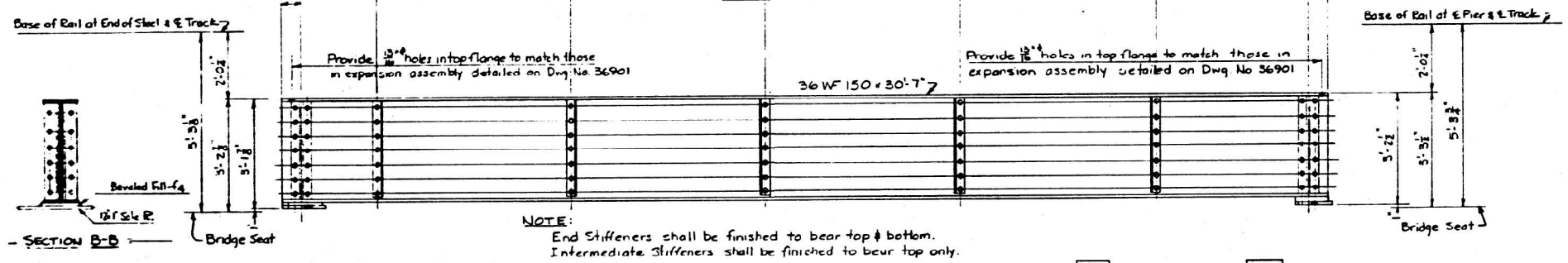
WEIGHT OF STEEL:
 (For material on this drawing only)
 Structural Steel - 31,350 Lb.
 Low-Alloy Structural Steel - 50 Lb.
 Total 31,400 Lb.

GENERAL NOTES:
 Material: Structural steel unless noted
 Rivets: 3/8"
 Open Holes: 1/8" Unless noted
 Inspection: Illinois Division of Highways

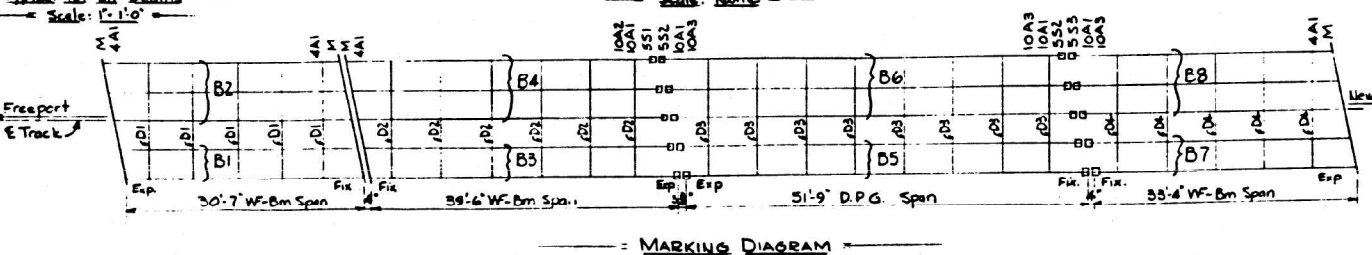
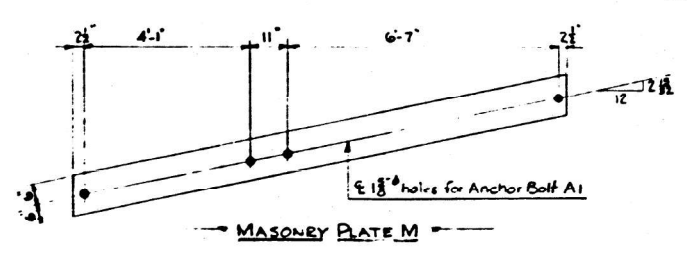
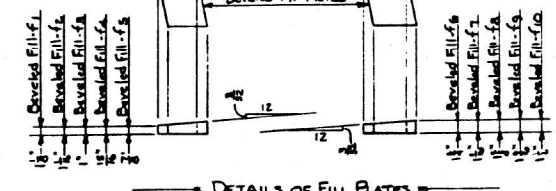
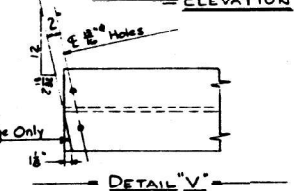
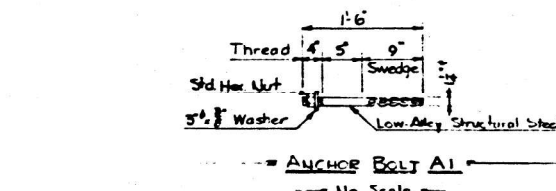
SPECIFICATIONS:
 AREA 1959 for Steel Railway Bridges for design, materials, and workmanship.
 Low-Alloy Structural Steel - Current ASTM designation A 242
 Welding: Current specifications of the American Welding Society for Welded Highway and Railway Bridges.
 Shop Paint: All structural steel and low-alloy structural steel shall be painted with one coat of red lead paint, in accordance with Illinois Division of Highway Specifications.

BASIS OF DESIGN:
 Live Load: Cooper E 72
 Dead Load: Actual
 Impact: Per Specifications for steam locomotives

REFERENCE DRAWINGS:
 General Plan Dwg No. 36884
 Details of Exp Assemblies & Deck Drain 36901



NOTE: End Stiffeners shall be finished to bear top & bottom. Intermediate Stiffeners shall be finished to bear top only.



10 of 25
 ILLINOIS CENTRAL RAILROAD
 Be A 750-2 SOUTH OF DECATUR, ILL.
 SUBWAY FOR SBI ROUTE 48 (Spur)
 DETAILS OF 30'-7\"/>

Revised for Ill. Div. of Hwys. changes 7-3-61 HWS
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 Checked by - D/H/12/9/60

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

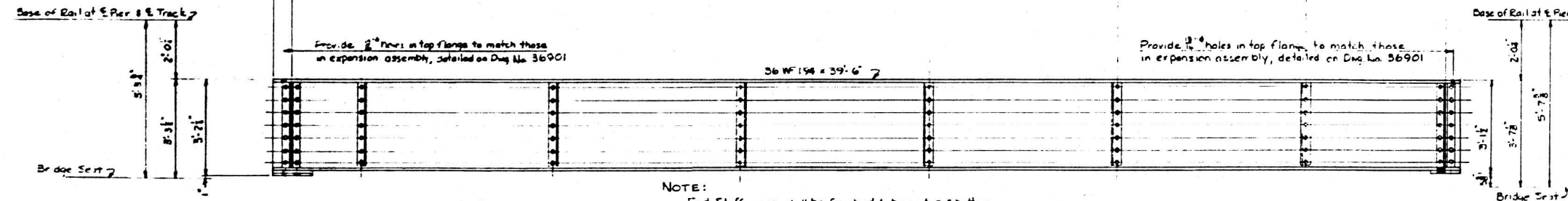
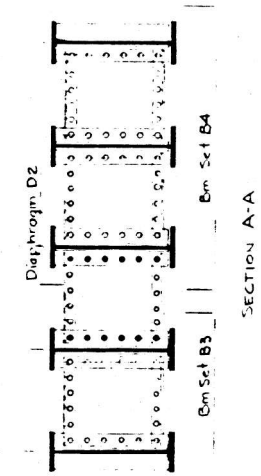
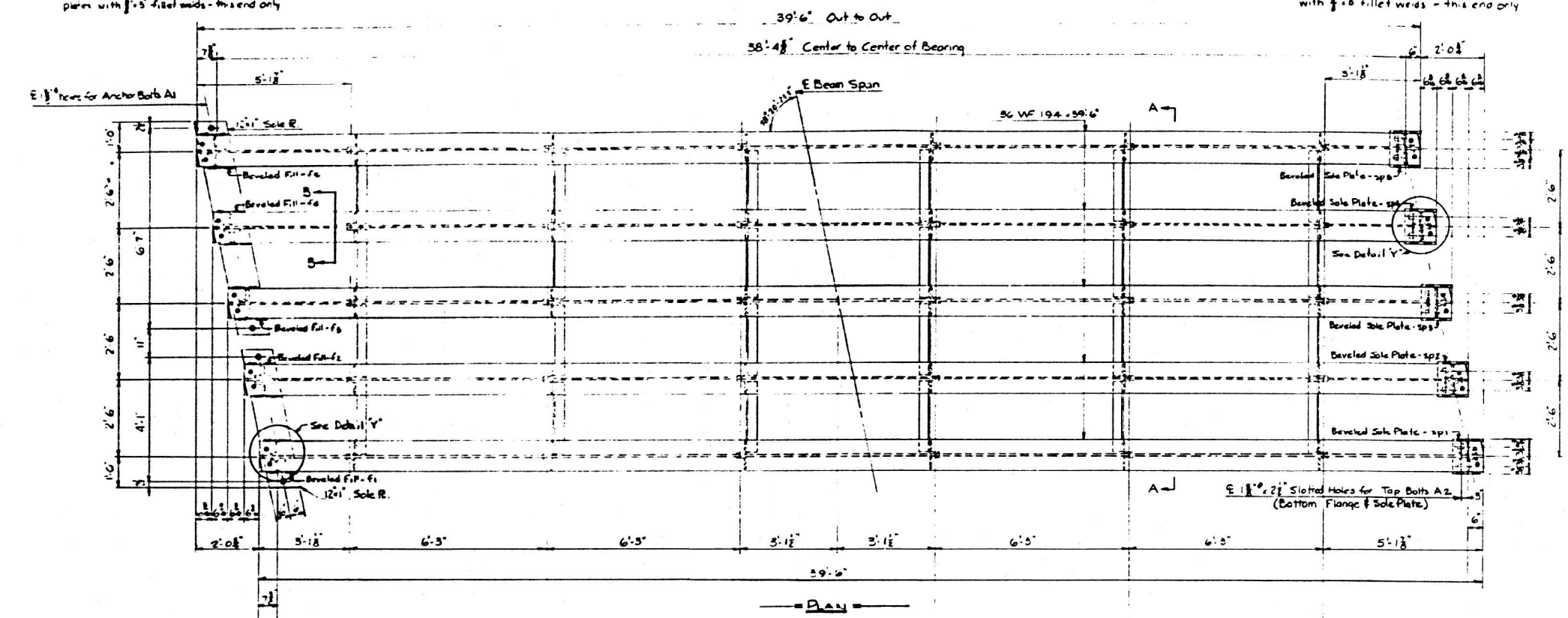
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 SN 058-0027

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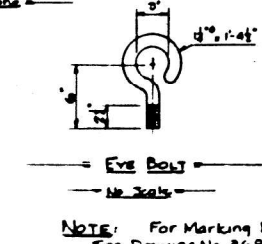
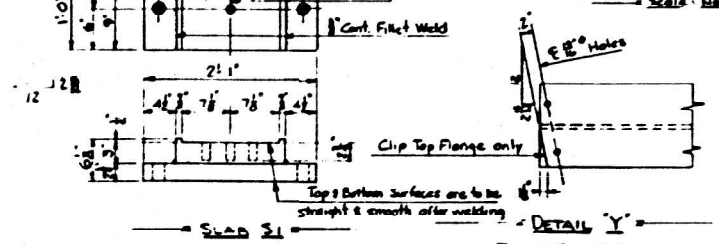
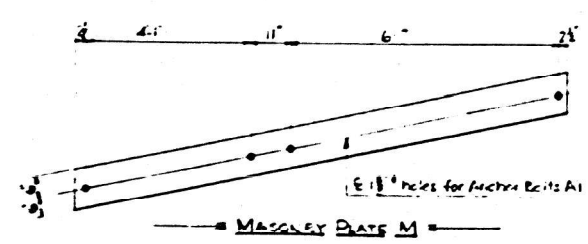
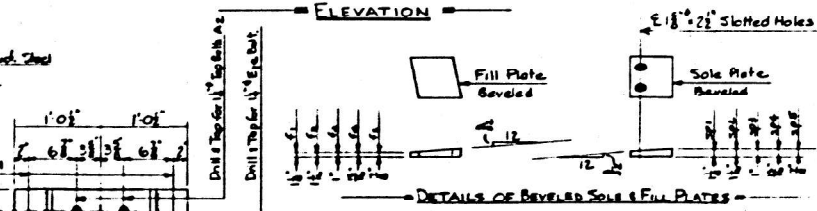
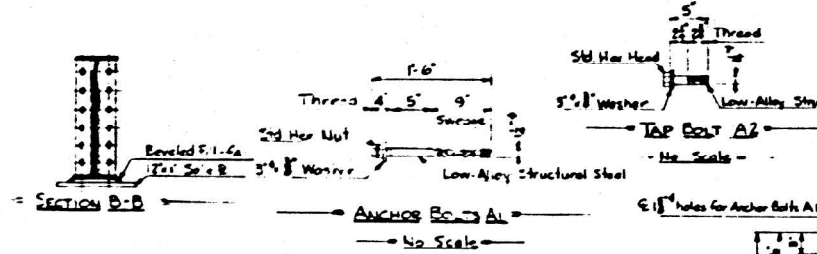
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VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	14
ILLINOIS			FED. AID PROJECT	

NOTE: Shop weld beams to fills and fills to sole plates with 1/2" fillet welds - this end only

NOTE: Shop weld beams to sole plates with 1/2" fillet welds - this end only



NOTE: End Stiffeners shall be finished to bear top & bottom. Intermediate Stiffeners shall be finished to bear top only



- DIAPHRAGM:
 1 Plate - 26" x 1/2"
 2 Angles - 3" x 3" x 1/4"
- END STIFFENER:
 2 Fills - 7" x 1/2"
 4 Angles - 5" x 5" x 1/4"
- INTERMEDIATE STIFFENER:
 2 Angles - 5" x 5" x 1/4"

REQUIRED LIST		
No	Description	Mark
1	Beam Set	B3
1	Beam Set	B4
6	Diaphragms	D2
1	Masonry Plate	M
5	Slabs	S1
14	Anchor Bolts	A1
10	Top Bolts	A2
2	Eye Bolts	-

WEIGHT OF STEEL:
 (For material on this drawing only)
 Structural Steel 48,290 Lb.
 Low-Alloy Structural Steel 110
 Total 48,400 Lb

GENERAL NOTES:
 Material: Structural steel as specified
 Rivets: 3/8"
 Open Holes: 1/4" unless noted
 Inspection: Illinois Division of Highways

SPECIFICATIONS:
 For Specifications See Drawing No. 36893

BASIS OF DESIGN:
 Live Load: Cooper E 72
 Dead Load: Action
 Impact: Per Specifications for street locomotives

REFERENCE DRAWINGS:
 General Plan Dwa No 36884
 Details of Exp Assm on Deck Draw 36901
 Details of 20" WF Beam Span 36893

ILLINOIS CENTRAL RAILROAD
 BR A 750-2 SOUTH OF DECATUR, ILL.
 SUBWAY FOR SBI ROUTE 48 (SPUR)
 DETAILS OF 39'-6" WF-BEAM SPAN
 Scale: 1/4" = 1'-0" (noted) August 8 1962

ED Johnson
 ENGINEER OF BRIDGES
 DRAWING NO 36894 FILE NO 241-60
 Drawn By - YME
 Checked By - AM 12/9/60

Revised for Ill. Div. of Hwys' changes 7/9/60

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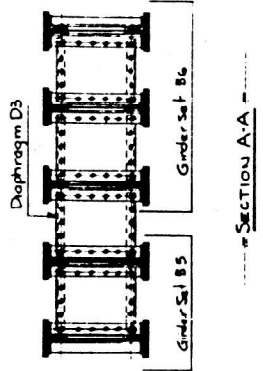
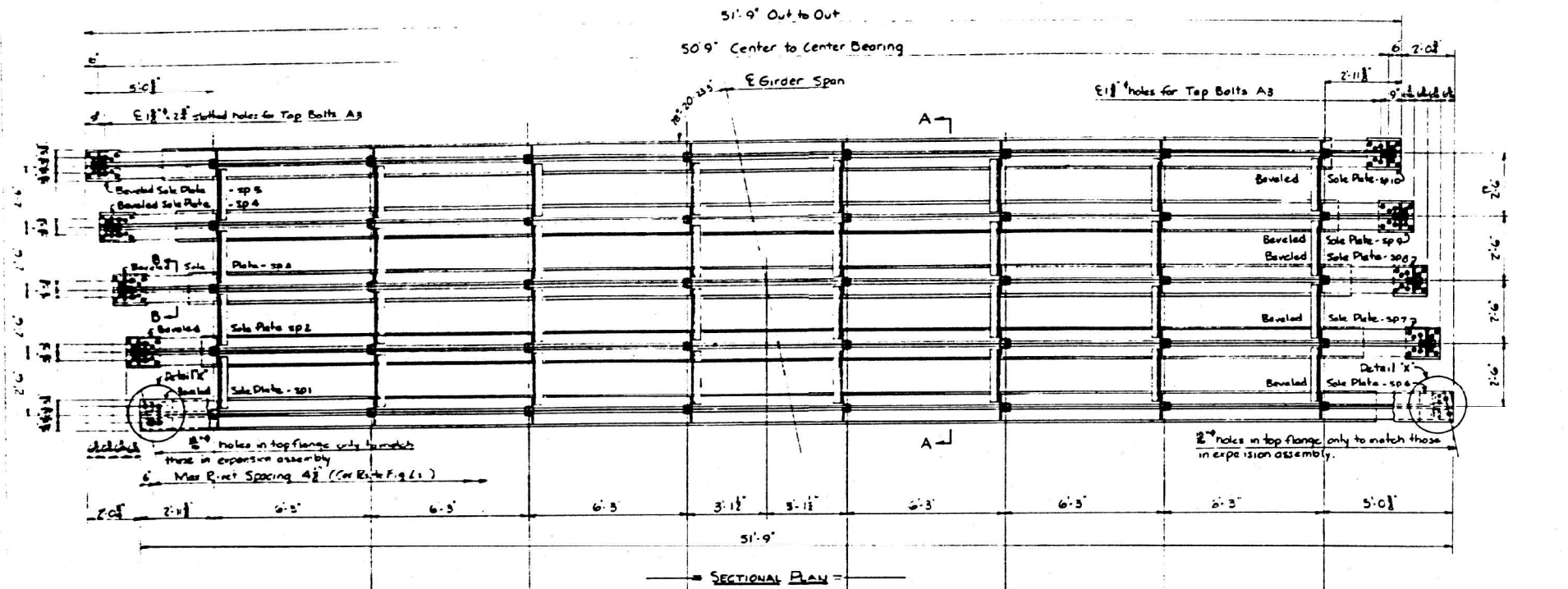
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
 SN 058-0027

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	15
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				



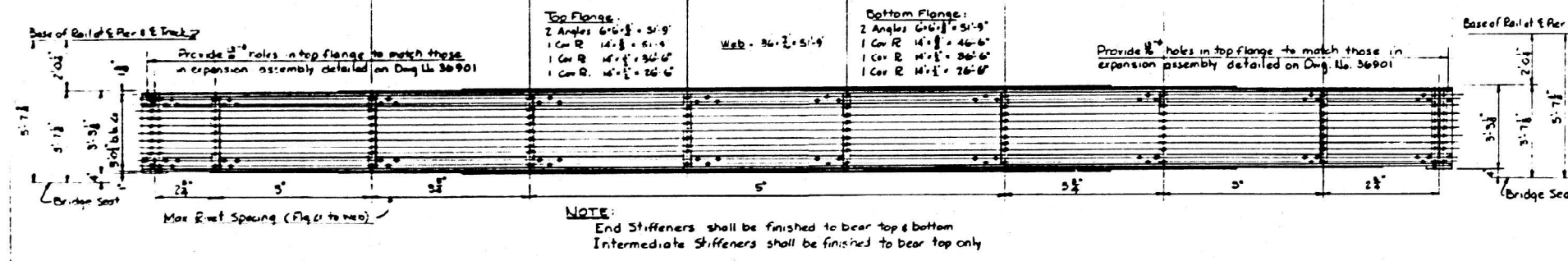
REQUIRED LIST

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1	Girder Set	B5
1	Girder Set	B6
8	Diaphragms	D3
10	Slabs	S2
20	Anchor Bolts	A1
20	Top Bolts	A3
2	Eye Bolts	-

WEIGHT OF STEEL:
 (For material on this drawing only)
 Structural Steel - 88,540 Lb
 Low-Alloy Structural Steel - 160 Lb
Total 88,700 Lb

GENERAL NOTES
 Material: Structural steel unless noted
 Rivets: 3/8" unless noted
 Open Holes: 1/2" unless noted
 Inspection: Illinois Division of Highways

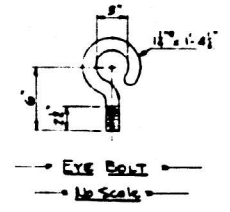
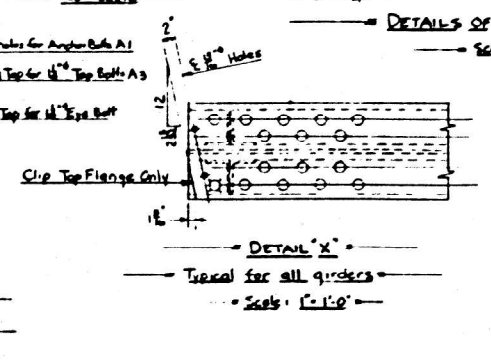
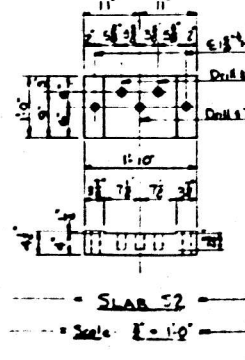
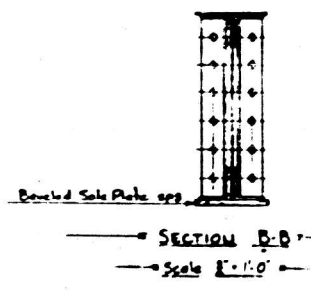
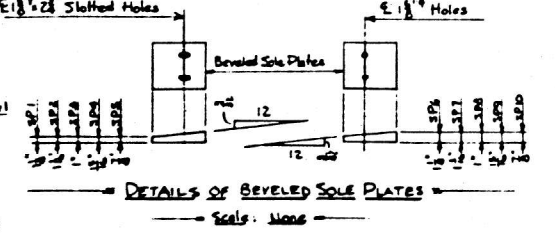
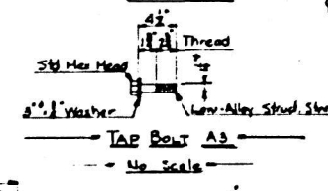
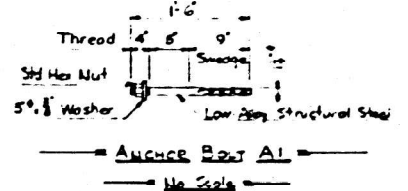
SPECIFICATIONS
 For Specifications See Drawing No. 36893



DIAPHRAGM
 1 Plate 24" x 1/2"
 2 Angles 3" x 3" x 1/4"

END STIFFENER
 2 Fills 7" x 1/2"
 4 Angles 5" x 3" x 1/4"

INTERMEDIATE STIFFENER
 2 Angles 5" x 3" x 1/4"
 2 Fills 3" x 1/2"



NOTE: For Marking Diagram See Drawing No. 36893

BASIS OF DESIGN:
 Live Load: Cooper E 72
 Dead Load: Actual
 Impact: Per Specifications for steam locomotives

REFERENCE DRAWINGS
 General Plan Dwg No. 36884
 Details of Exp. Assemblies & Deck Drain - 36901
 Details of 30" x 14" x 5/8" Span - 36893

ILLINOIS CENTRAL RAILROAD
 BR A750-2 SOUTH OF DECATUR ILL.
 SUBWAY FOR SBI ROUTE 48 (Span)
 DETAILS OF 51'-9" DECK PLATE GIRDER SPAN
 Scale 1/2" = 1'-0" (Noted) August 26, 1960

12 of 25
 E. Johnson
 ENGINEER OF BRIDGES
 DRAWING No. 36895 FILE No. 241-61
 Drawn By - NWC
 Checked By - ANH 12/9/60

Revised for "Ill. Div. of Highways" changes 7-3-61 HNB

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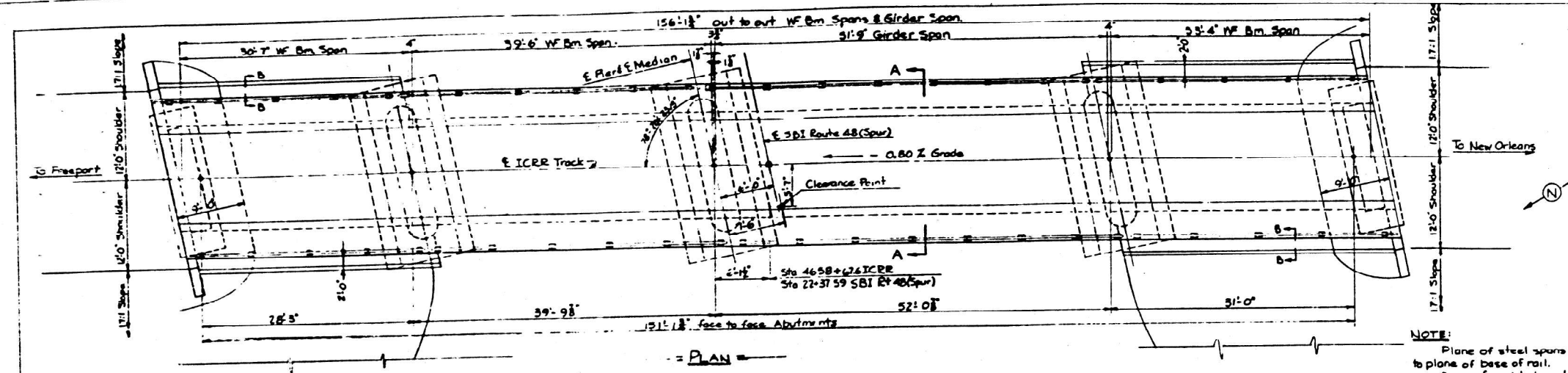
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	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

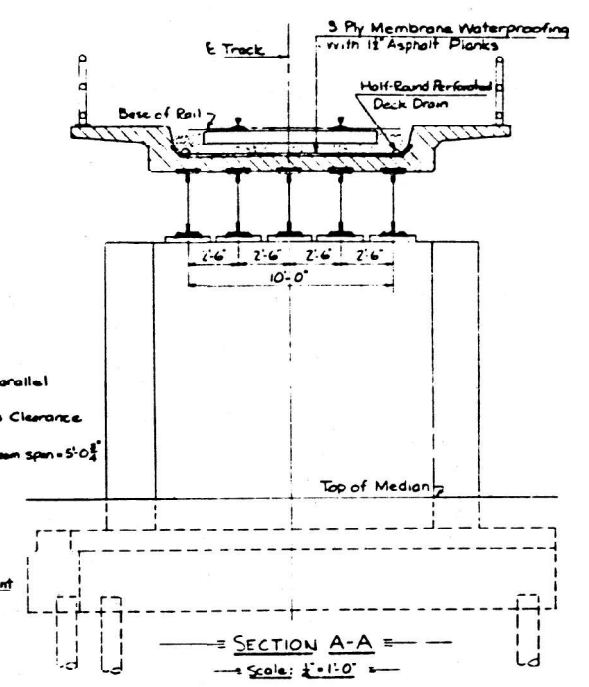
EXISTING STRUCTURE PLANS
 SN 058-0027

SCALE: SHEET OF SHEETS STA. TO STA.

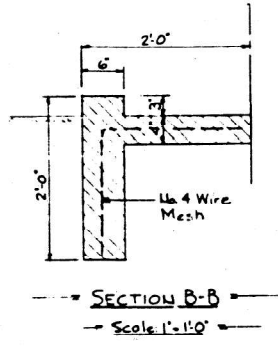
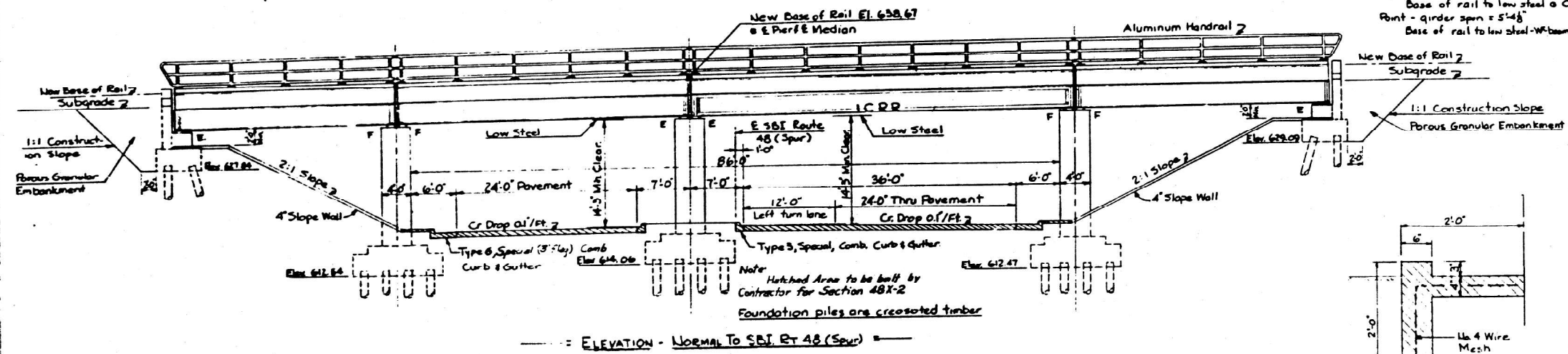
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	16
			CONTRACT NO. 74C93	
		ILLINOIS FED. AID PROJECT		



Bench Mark - Triangle cut in top of retaining wall P&T Station 25+61.85 Elevation 640.93 (Referred to US G.M. datum)

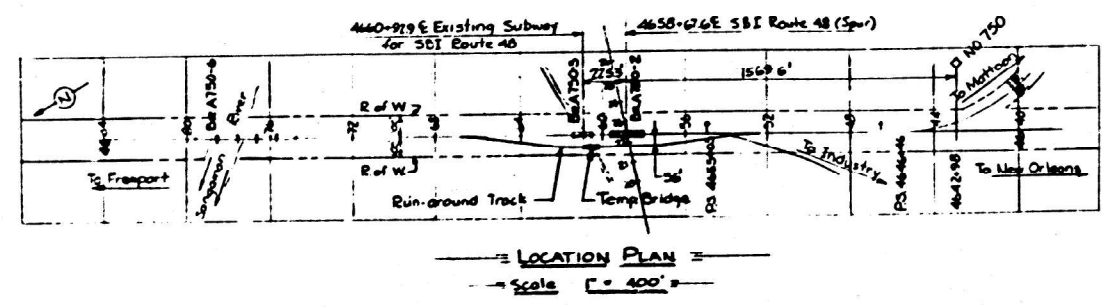
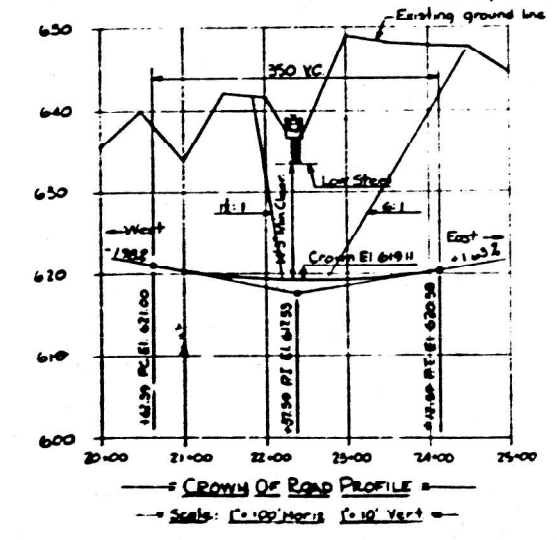
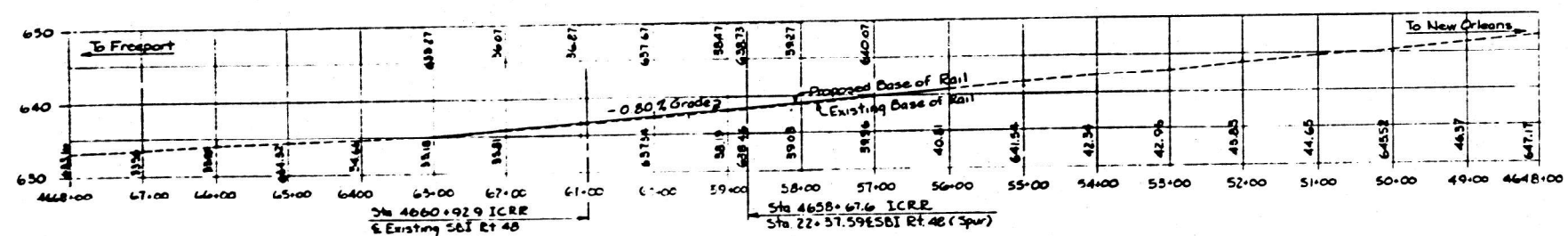


NOTE:
Plane of steel spans is parallel to plane of base of rail.
Base of rail to low steel a Clearance Point - girder span = 5'-4 1/2"
Base of rail to low steel-WF beam span = 5'-0"



LIST OF DRAWINGS (BRIDGE)

Draw No	Draw No	Draw No
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25		



PLANS FOR STRUCTURES EXAMINED Aug 31, 1961
H.E. Burmann
ENGINEER OF BRIDGE & TRAFFIC STRUCTURES

PROJECT U-159 (2)
SBI RT 48 (Spur) SEC 128 SB
MACON COUNTY
1 of 25
ILLINOIS CENTRAL RAILROAD
BR A 750-2 SOUTH OF DECATUR ILL
SUBWAY FOR SBI ROUTE 48 (Spur)
GENERAL PLAN
Scale 1"=10' as noted
Nov 15 1960

Revised for 'Ill. Div of Highways' changes 7-5-61 UNB
Revised 12-11-60 H.W.B.

DRAWING No 36884 FILE No 241-50
Checked By: R.M. 12/15/60

REV 9-28-61 Proj. No by Dist.

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USER NAME = jessica.hille	DESIGNED -	REVISED -
PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = 3/22/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

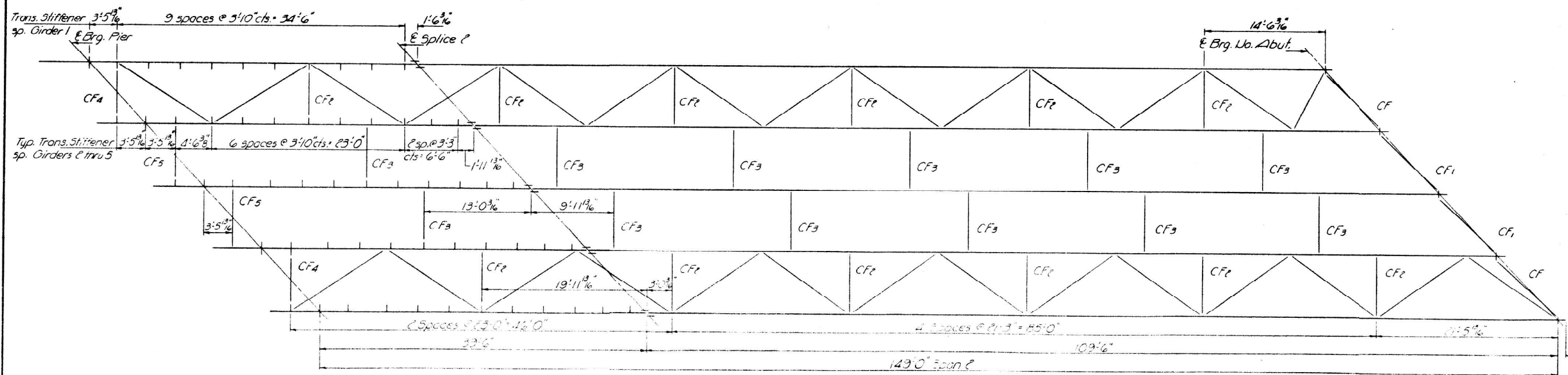
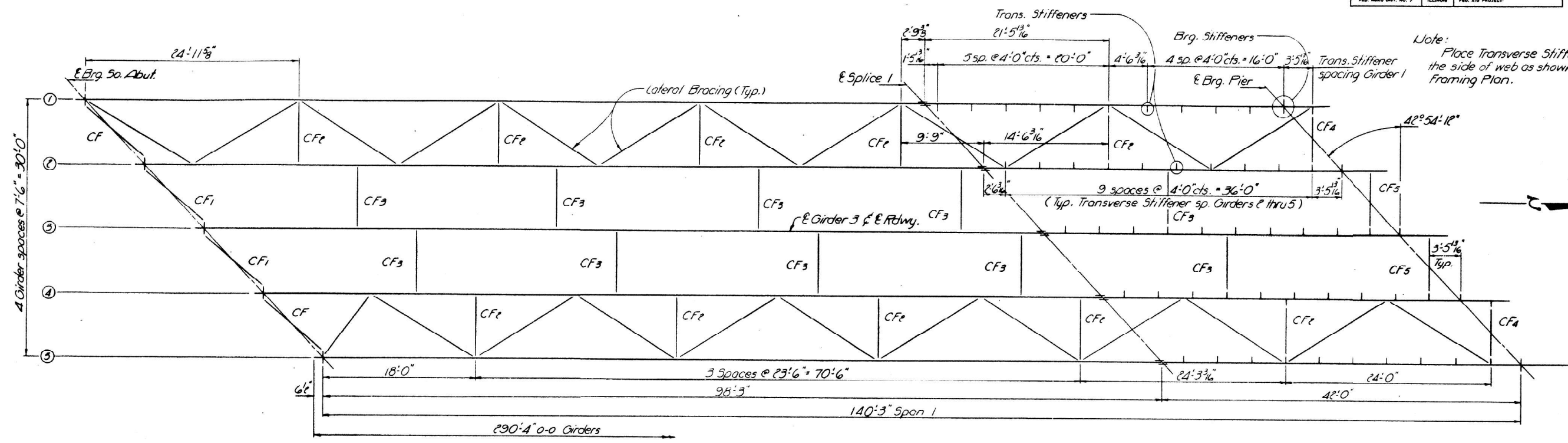
EXISTING STRUCTURE PLANS
SN 058-0027

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	18
CONTRACT NO. 74C93			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	170	MACON	43	20
SHEET NO. 8				
17 SHEETS				



FRAMING PLAN

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

STRUCTURAL STEEL
FBI RT. 72 SEC 58-62-143-1
MACON COUNTY
STA. 707+13.05

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PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -
PLOT DATE = 3/22/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

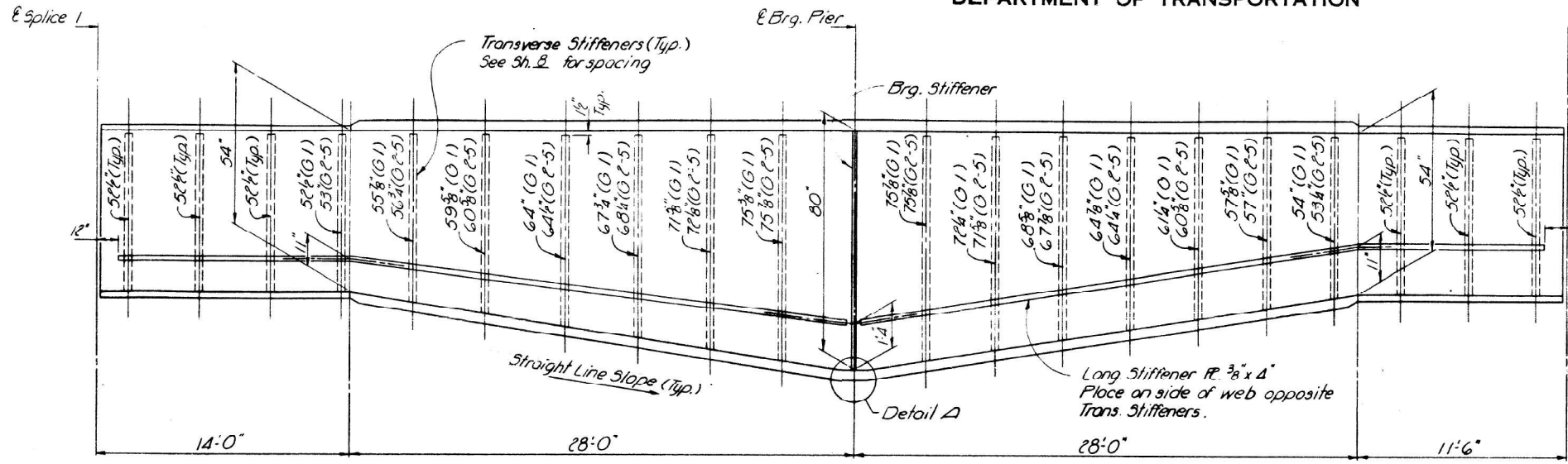
EXISTING STRUCTURE PLANS
SN 058-0073

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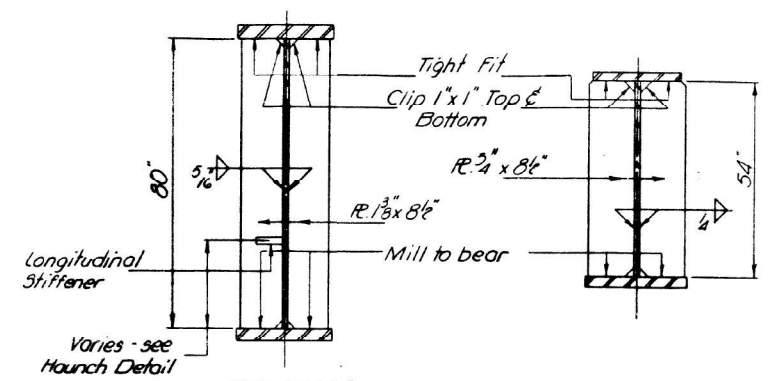
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	20
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

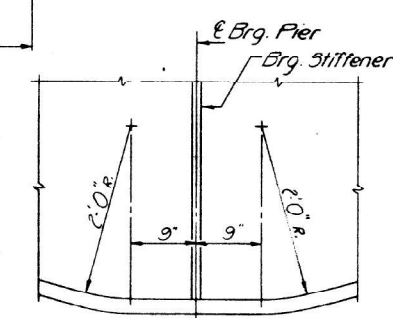
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9
58-073	116-1	MACON	32	21	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	



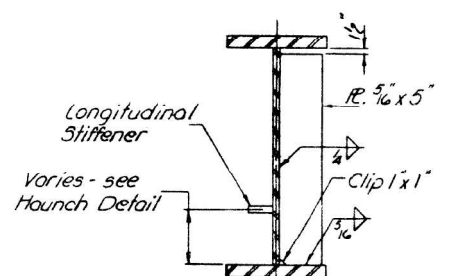
HAUNCH DETAIL



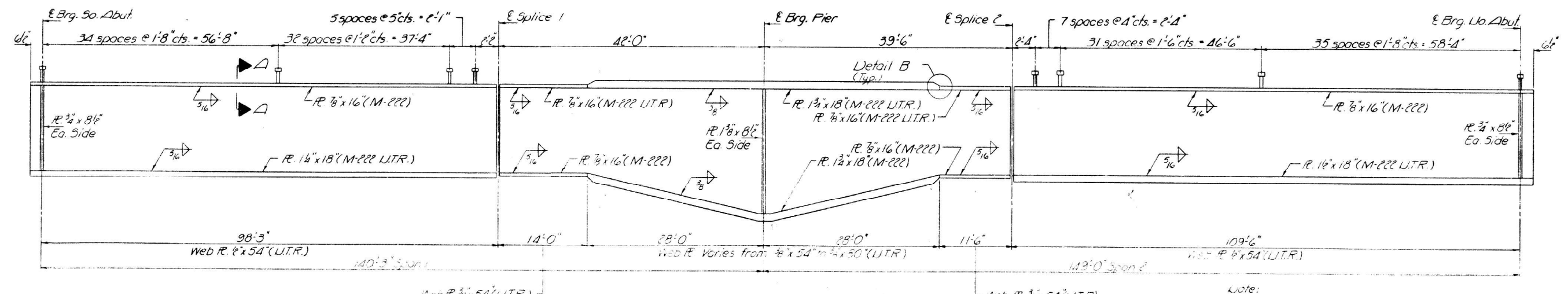
BEARING STIFFENERS



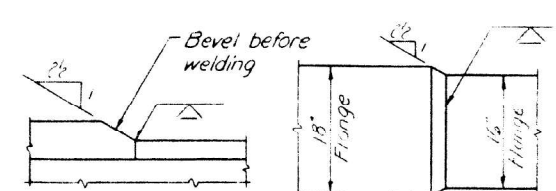
DETAIL A



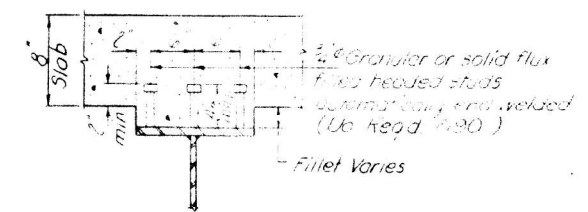
TRANSVERSE STIFFENERS



GIRDER ELEVATION



ELEVATION PLAN
DETAIL B



SEC A-A

Note:
U.T.R. requires that the designated member conform to the supplemental requirements for Lichen Toughness.

STRUCTURAL STEEL
FAL RT 72 SEC 58-07115-1
MACON COUNTY
STA. 707+13.05

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

USER NAME = jessica.hille	DESIGNED -	REVISED -
PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = 3/22/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 058-0073

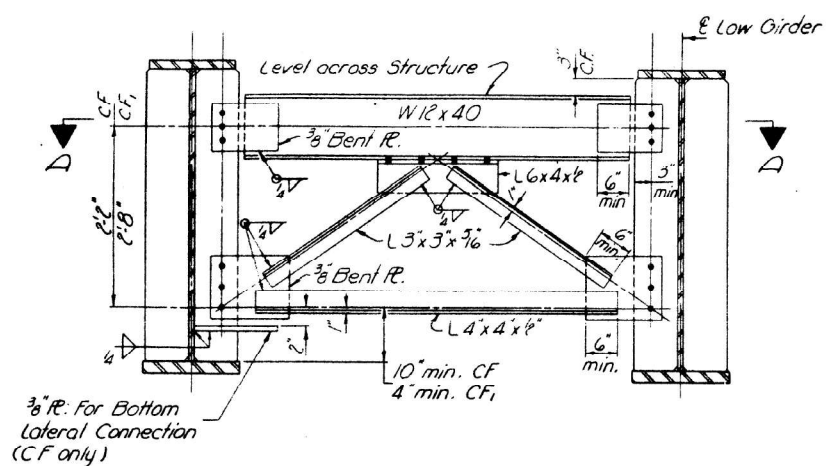
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	21
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				

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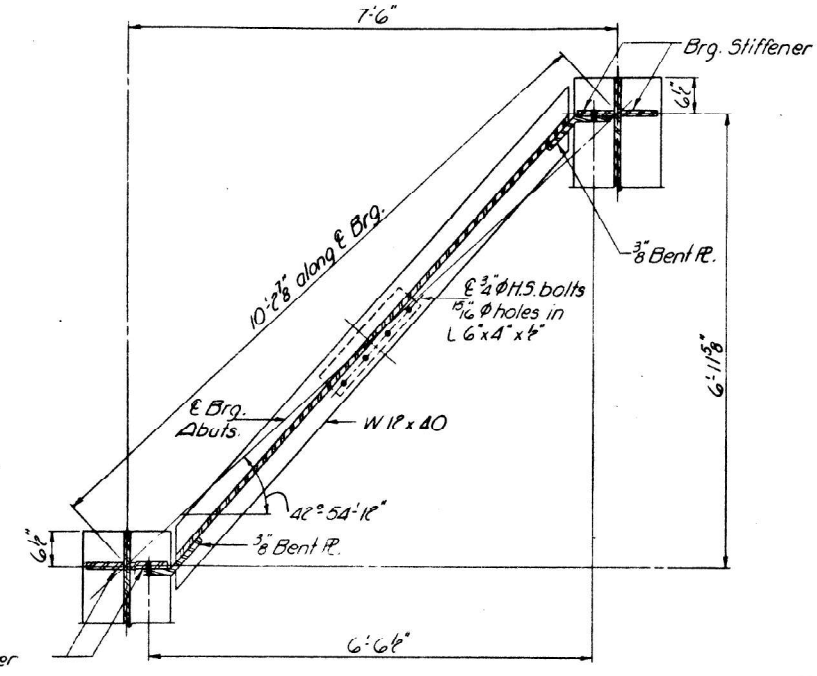
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	112	MACON	43	17
NO. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

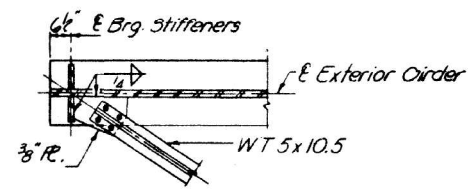


CROSS FRAME CF & CF1

No. Required 4 Each
All bolts 3/8" H.S. with hardened washers
1/4" holes in 3/8" Gusset Pls.

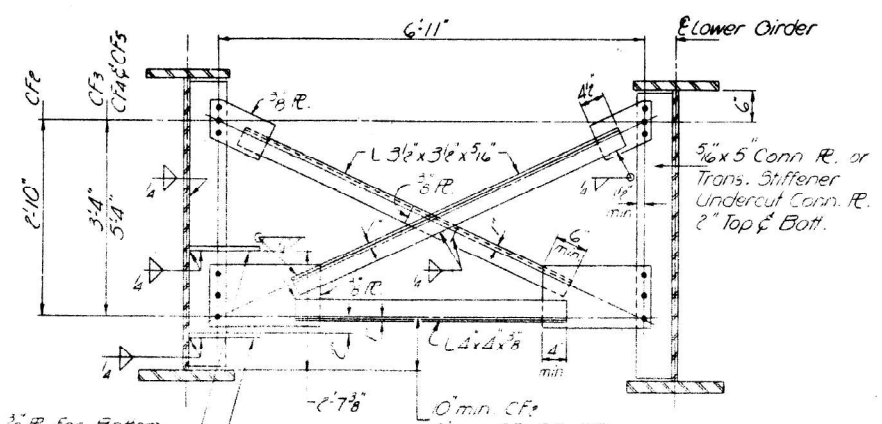


SEC. A-A



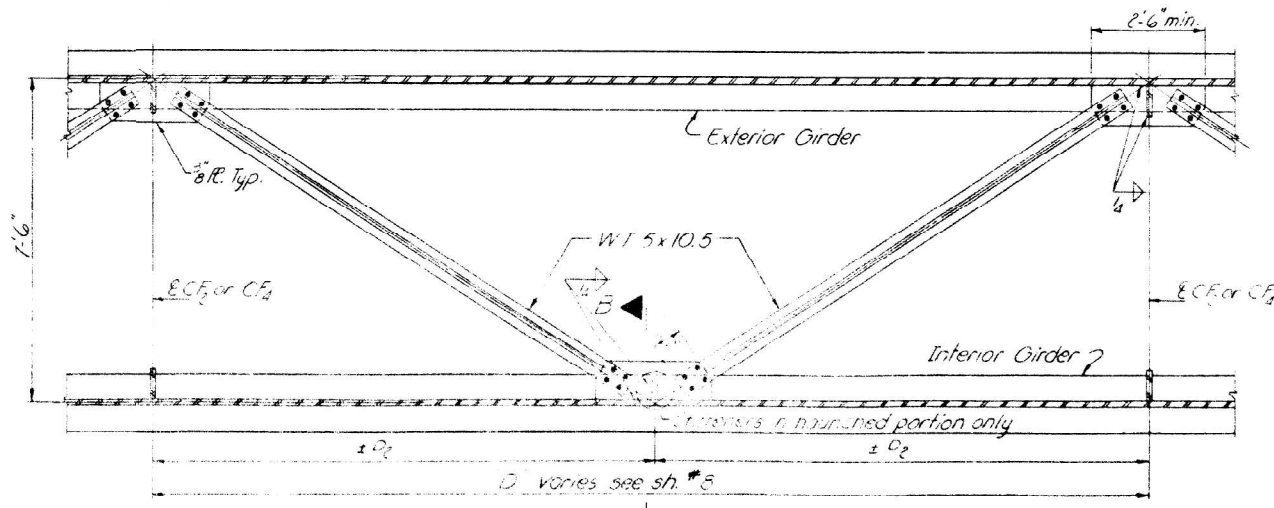
PLAN

Showing Lateral Bracing connection of Abuts.



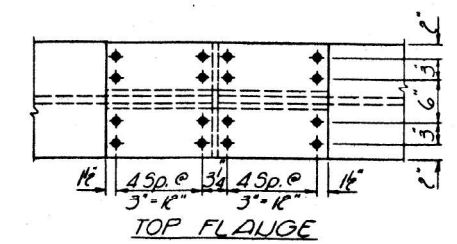
CROSS FRAME CF2 thru CF5

No. Required 22 CF2, 22 CF3, 22 CF4, 22 CF5

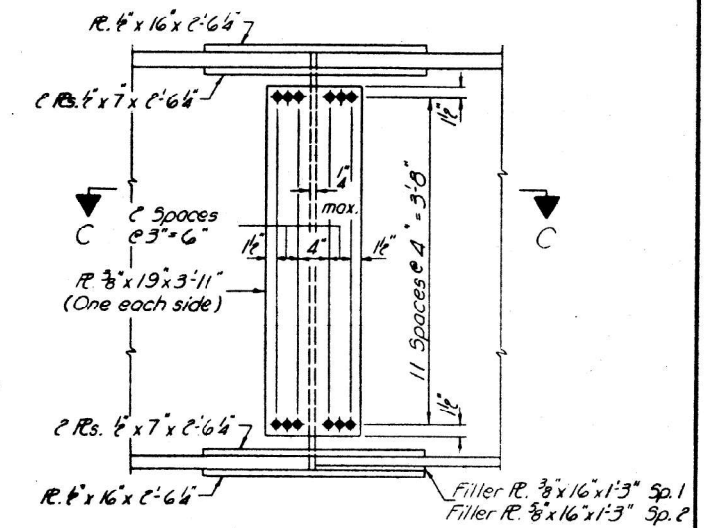


TYPICAL LATERAL BRACING PLAN

All bolts 3/8" H.S. with hardened washers
1/4" holes in 3/8" Gusset Pls.

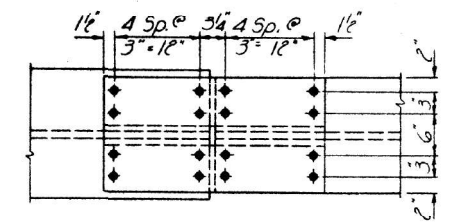


TOP FLANGE



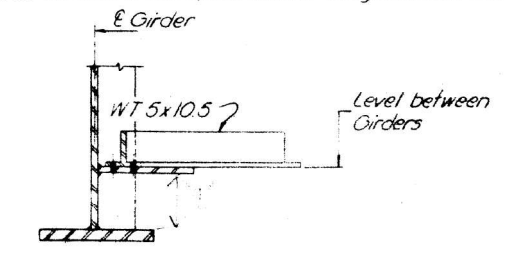
FIELD SPLICE 1&2

All bolts 3/8" H.S. All plates in splices shall conform to UTR & A.A.S.H.O. designation M-222.



BOTTOM FLANGE

All bolts 3/8" H.S. All plates in splices shall conform to UTR & A.A.S.H.O. designation M-222.



SEC. B-B

STRUCTURAL STEEL DETAILS
FAIRTR SEC 58-C2-1HB-1
MACON COUNTY
STA 707+15.05

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

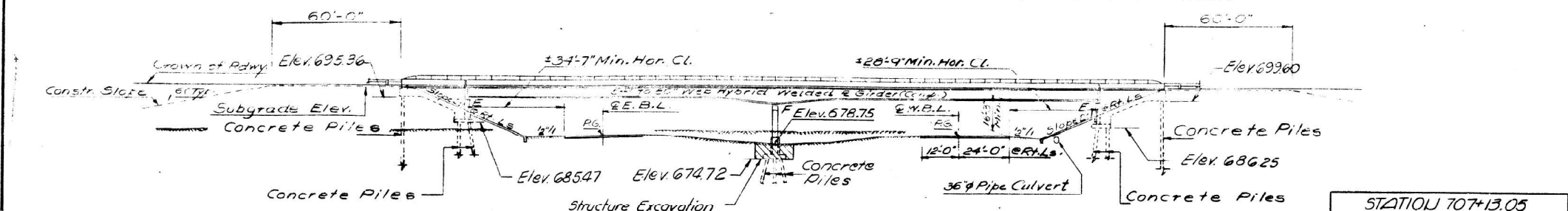
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USER NAME = jessica.hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS SN 058-0073	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = \$SCALES	CHECKED -	REVISED -			VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	22
PLOT DATE = 3/22/2024	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO. 74C93
							ILLINOIS	FED. AID PROJECT	

5 Min #17 Lag screw in North side 60" tree roots;
 10" dia. 5" x 4" 705+17 (F.A.I. Rte 72), Elev. 674.53.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

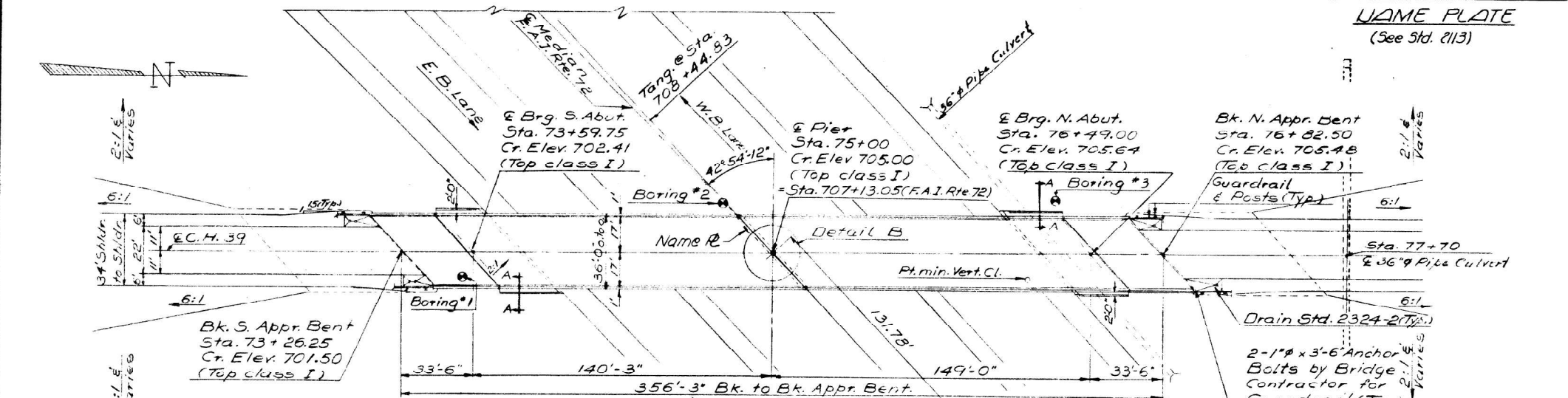
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1540	D7	MACON	43	13
SHEETS				



ELEVATION

STATION 707+13.05
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RTE. 72 SEC. 58-62-11B-1
 F.A. PROJ. 1-1872-1(44)
 LOADING HS20

NAME PLATE
 (See Std. 213)



PLAN

SEC THRU SLOPE WALL

SEC. A-A

GENERAL NOTES

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

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

Calculated weight of Structural Steel M-183-172-410 lbs M-222-218,990 lbs.

The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.

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

Anchor bolts shall be set before bolting cross frames over supports.

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

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

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

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

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (Pier only).

The main road carrying members of steel bridges subjected to tensile stresses shall conform to the Supplemental Requirements for Notch Toughness.

The Contractor shall drive one concrete test pile in a permanent location at the Pier as directed by the Engineer before ordering the remainder of piles.

For Boring Data see this Proposal

Unless otherwise noted all structural steel shall conform to AASHTO designation M-183.

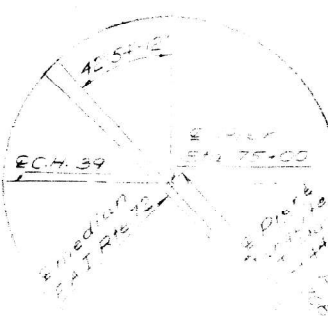
TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Sand Backfill	Cu. Yds.		346	346
Bituminous Concrete Surface Course Class I	Tons	106		106
Waterproofing Membrane System	Sq. Yds.	1283		1283
Structure Excavation	Cu. Yds.		84	84
Protective Coat	Sq. Yds.	265		265
Class X Concrete	Cu. Yds.	449.5	329.0	778.5
Structural Steel	L.S.			1
Stud Shear Connectors	Each	2130		2130
Aluminum Roofing	Sq. Ft.	706		706
Reinforcement Bars	Lbs.	114,423	38,630	153,053
Concrete Piles	LF Ft.		3650	3650
Test Piles (Concrete)	Each		1	1
Name Plates	Each		1	1
Slope Wall (4)	Sq. Yds.		175	175
Diaphragm Exp. Joint (2)	Lin. Ft.	30		30

* See Special Provisions

CURVE DATA (F.A.I. RTE 72)

A = 7° 35' 58"
 D = 0' 15' 00"
 T = 153' 53"
 R = 23413.31'
 L = 3539.14'
 E = 50.47'
 S.E. = 0.156' ±
 S.E. At +ve incl. Sta. 705+00 to Sta. 705+13.05 = 1.19'
 S.E. At -ve incl. Sta. 705+13.05 to Sta. 705+44.93 = 1.275'



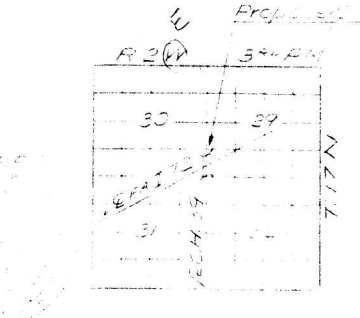
DESIGN STRESSES

f_c = 1500 psi (Deck Slab)
 f_c = 1400 psi (Core Structure)
 f_s = 20000 psi (Reinf.)
 f_s = 20000 psi (M 183)
 f_s = 27400 psi (M 222)
 k = 75 psi (Figs.)
 n = 10

DETAIL B

DESIGNED	18
CHECKED	
DRAWN	
CHECKED	

EXAMINED	
PASSED	
APPROVED	



LOCATION SKETCH

5-93

GENERAL PLAN & ELEVATION

F.A.S. 1540
 CONTRACT NO. 1144-34
 F.A. PROJ. 1-1872-1(44)
 MACON COUNTY
 STA. 707+13.05 (F.A.I. RTE 72)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

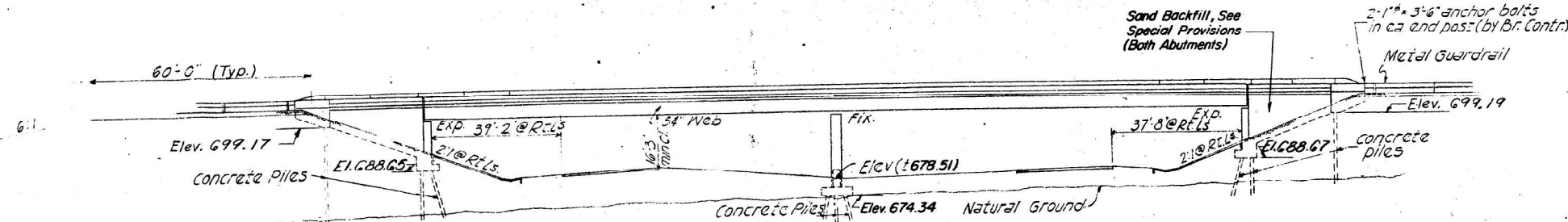
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	45	MACON	39	11
SHEET NO. 1 12 SHEETS				

GENERAL NOTES

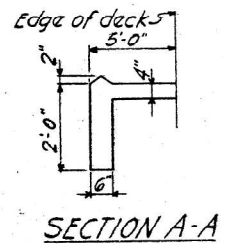
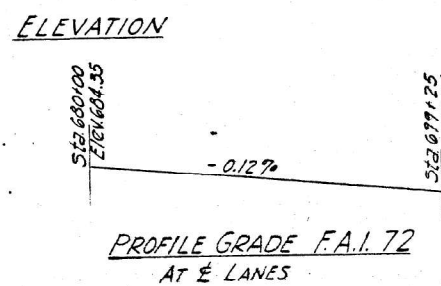
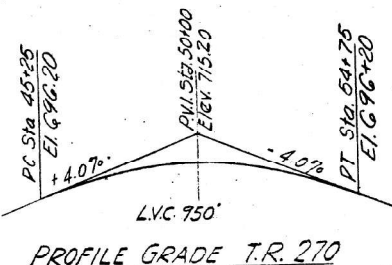
All reinforcement shall be lapped 24 diameters unless otherwise shown. Fasteners shall be high strength bolts. Bolts 7/8" #; open holes 1/16" #, unless otherwise noted.
 Calculated weight of Structural Steel = 265,840 lbs.
 The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.
 Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 Anchor bolts shall be set before bolting cross frames over supports.

Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh weighing 58 lbs. per 100 Sq. Ft.
 The embankment configuration shown shall be the minimum embankment that must be constructed prior to the construction of the abutments.
 The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
 Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective coat is applied.
 The contractor shall drive two concrete test piles in permanent locations, one at each abutment, as directed by the Engineer before ordering the remainder of piles. Concrete piles at abutments and approach bent shall be driven in holes precored thru the embankment in accordance with Article 513.09 (c) of the Std. Specifications.

Bench Mark: CHISLEO Square on E. end of concrete headwall at bottom of valley, So. of Newburg, 850' No. Station 677+50 (I-72) Elev. 661.87

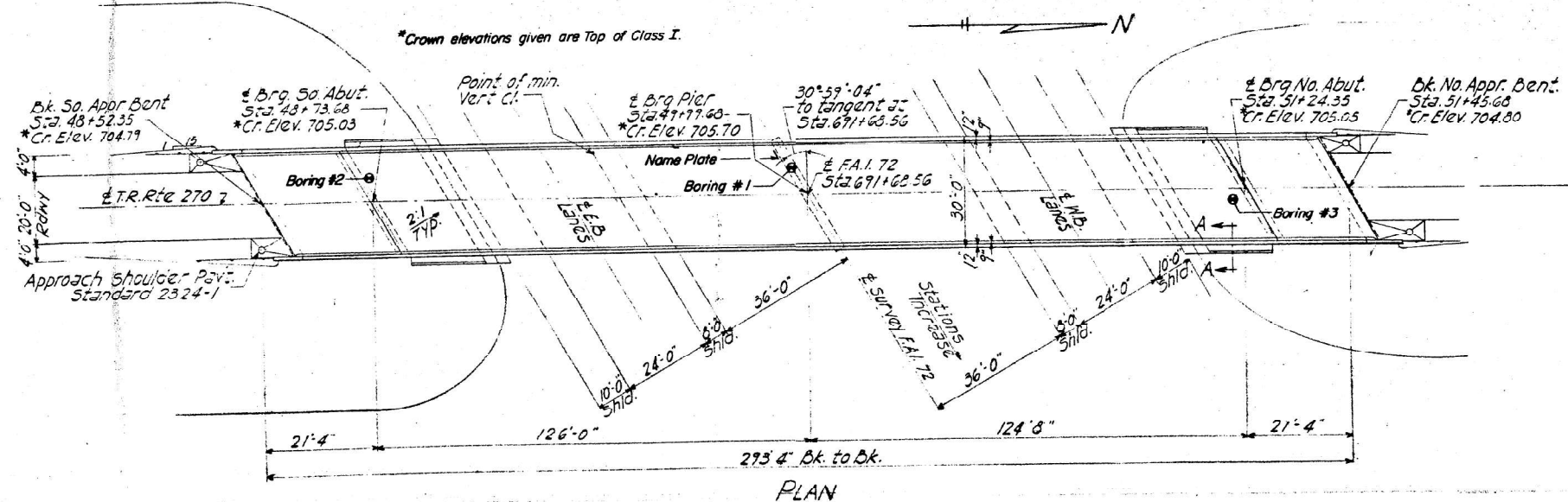


STATION 691+68.56
BUILT 197 BY
STATE OF ILLINOIS
F.A.I. RT. 72 SEC. 58-65-HB-3
F.A. PROJ. I-72-2 (38)
LOADING HS15
See Standard 2113
NAME PLATE



TOTAL BILL OF MATERIAL

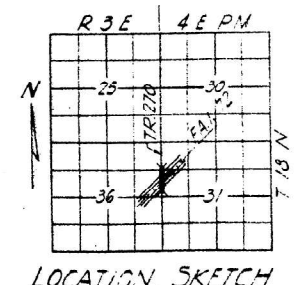
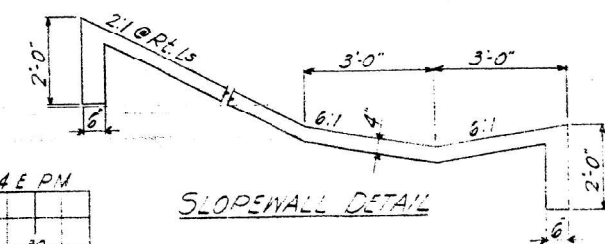
ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Concrete Surface Course, Class I	Ton	70		70
Coal Tar Interlayer Protective Coat	Sq.Yds.	860		860
Protective Coat	Sq.Yds.	227		227
Class X Concrete	Cu.Yds.	287.1	190.8	477.9
Structural Steel	L.S.			L.S.
Stud Shear Connectors	Each	1476		1476
Aluminum Railing	Lin.Ft.	608		608
Reinforcement Bars	Lbs.	72,170	22,250	94,420
Concrete Piles	Lin.Ft.		2210	2210
Test Piles (Concrete)	Each		2	2
Name Plates	Each		1	1
Slope Wall (4")	Sq.Yds.		394	394
Preformed Joint Sealer 4"	Lin.Ft.	70		70
Structure Excavation	Cu.Yds.		46	46
Sand Backfill	Cu.Yds.		160	160



DESIGN STRESSES

fc = 1200 p.s.i. Deck slab
 fc = 1400 p.s.i. CURD, DECKET SUB
 fs = 20000 p.s.i. REINF # STRUCT.
 Vc = 75 p.s.i. footings
 n = 10
 Allow 25 # per Sq Ft. for Future wearing surface.

LOADING HS15-44



PROJ. I-72-2(38)
 GENERAL PLAN & ELEVATION
 T.R. 270 OVER F.A.I. 72
 F.A.I. RT. 72 SEC. 58-65-HB-3
 MACON COUNTY
 STA. 691+68.56
9-84

DESIGNED: *[Signature]*
 CHECKED: Sal Patonu
 DRAWN: P. Barnett
 CHECKED: *[Signature]*

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

058-0092



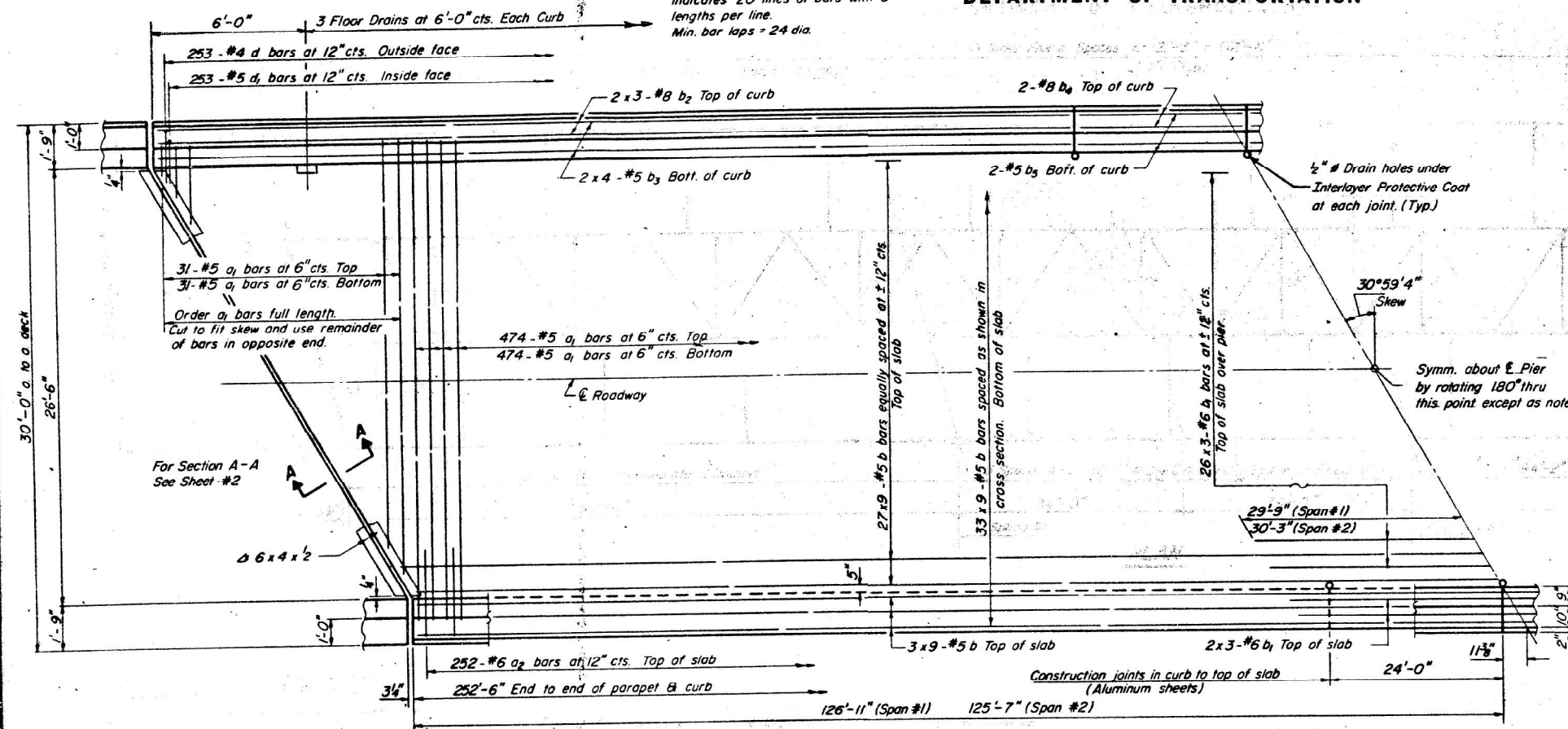
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USER NAME = jessica.hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS SN 058-0092	F.A. RTE. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = \$SCALES	DRAWN -	REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.	D7 BRIDGE PAINTING 2024-3	MACON	32	24
PLOT DATE = 3/22/2024	CHECKED -	REVISED -						
	DATE -	REVISED -						

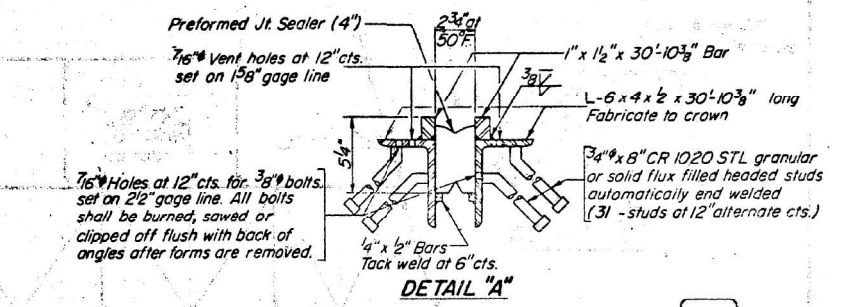
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	58-65	MACON	39	13
SHEET NO. 3				
12 SHEETS				

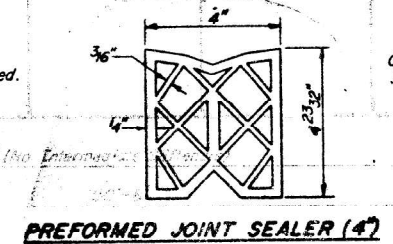
NOTE:
Bars indicated thus 20 x 3 - #5 etc.
indicates 20 lines of bars with 3
lengths per line.
Min. bar laps = 24 dia.



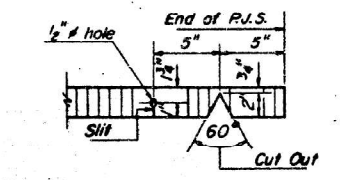
HALF PLAN



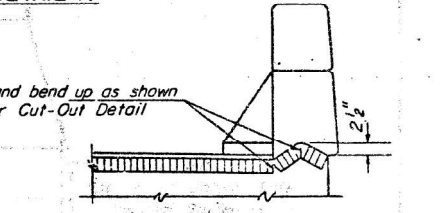
DETAIL "A"



PREFORMED JOINT SEALER (4')



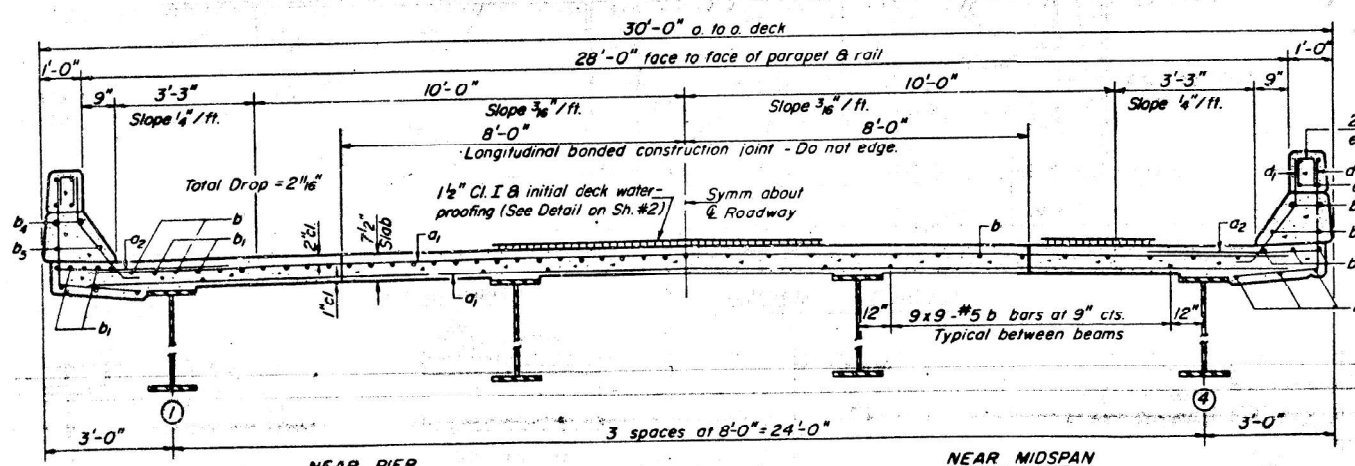
SEALER CUT-OUT DETAIL



END OF SEALER TREATMENT

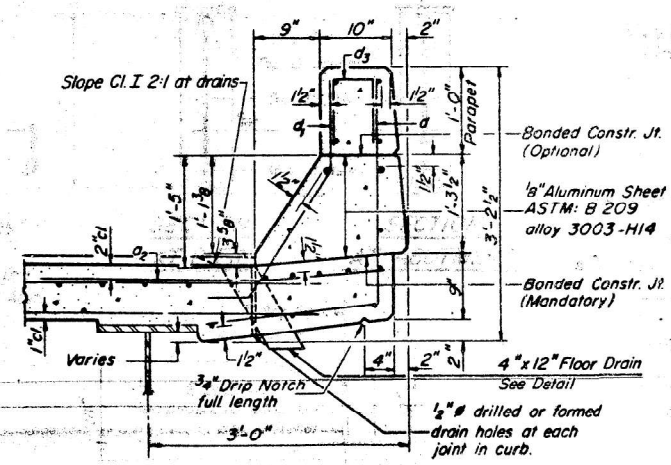
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	1010	#5	28'-3"	
a ₂	504	#6	4'-0"	
b	594	#5	29'-3"	
b ₁	90	#6	21'-0"	
b ₂	24	#8	35'-6"	
b ₃	32	#5	26'-6"	
b ₄	8	#8	23'-9"	
b ₅	8	#5	23'-9"	
d	506	#4	4'-6"	J
d ₁	506	#5	3'-6"	J
Reinforcement Bars		Lbs	60,980	
Class X Concrete		Cu. Yds	218.5	



CROSS SECTION

NOTE: For placement of bars d₃ and e thru e see sheet #4.

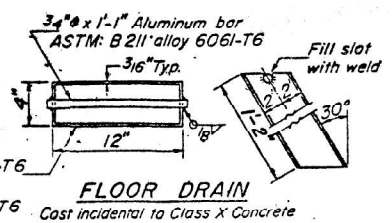


CURB SECTION

Cost of Aluminum Sheets shall be incidental to Class X Concrete.

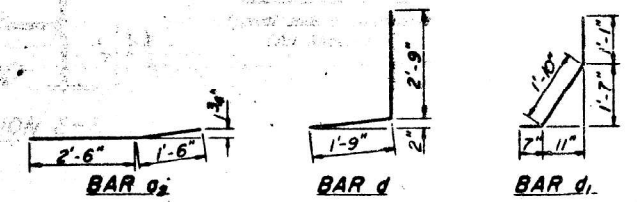
Parapet Reinforcement and Class X Concrete are billed on sheet #4.

DESIGNED	Jul 26 1972
CHECKED	
DRAWN	
CHECKED	



FLOOR DRAIN

Aluminum Sheets Welded
ASTM: B209 alloy 6061-T6
or Aluminum Extrusions
ASTM: B221 alloy 6061-T6
Cast incidental to Class X Concrete



SUPERSTRUCTURE
FAI RT. 72 SEC. 58-65-HB-3
MACON COUNTY
STA. 691+68.56

S-4-R(30) 4-22-68

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PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = 3/22/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

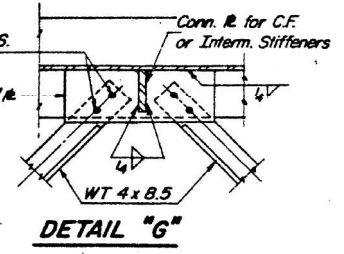
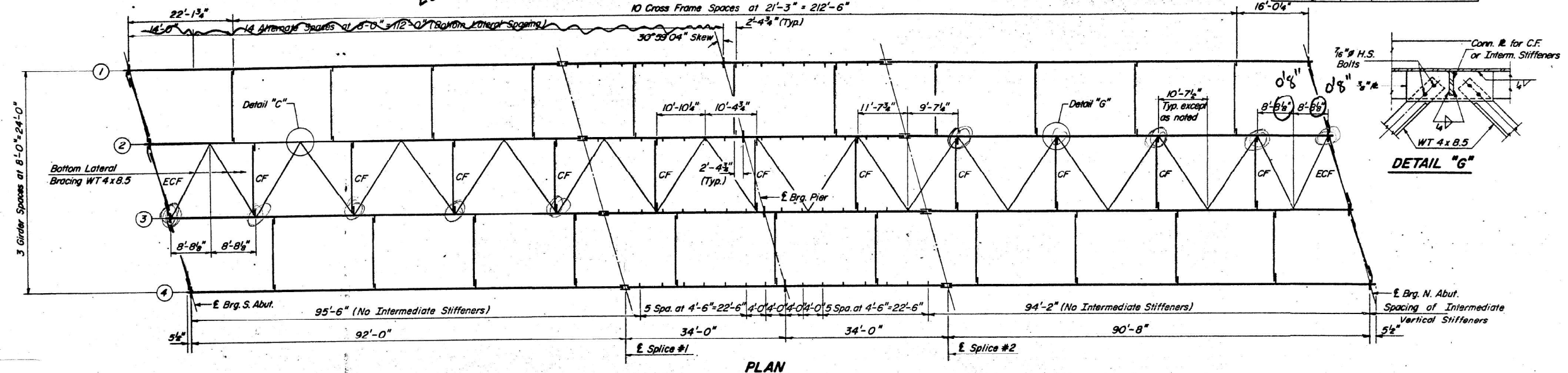
EXISTING STRUCTURE PLANS
SN 058-0092

SCALE: SHEET OF SHEETS STA. TO STA.

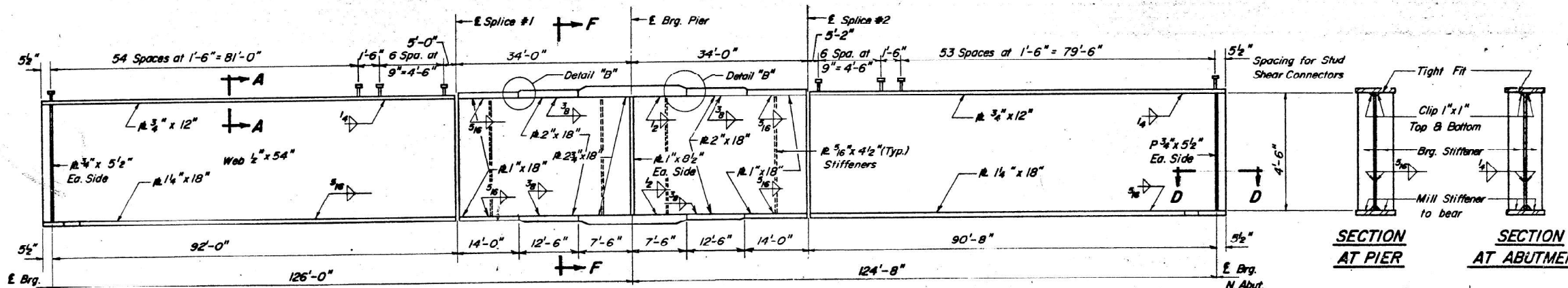
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VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	25
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72 58-65 HB-3	MACON	39	15
SHEET NO. 5 12 SHEETS			



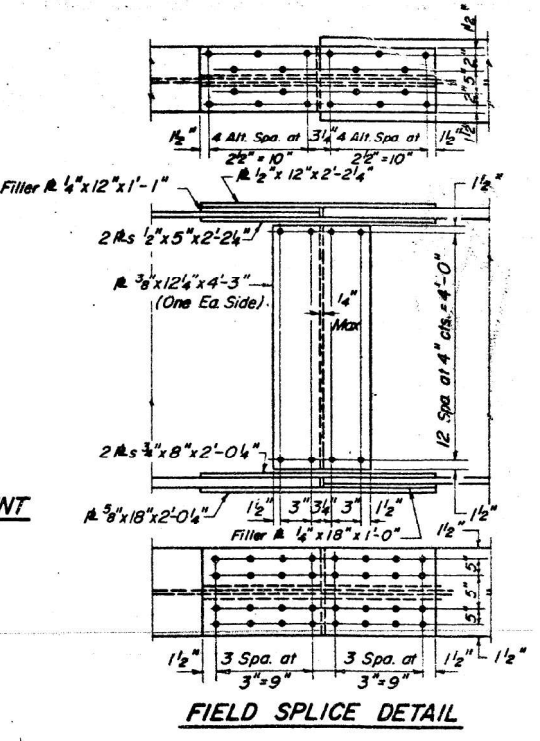
PLAN



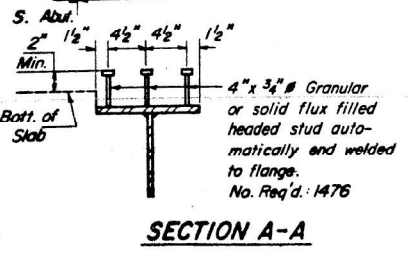
GIRDER ELEVATION

SECTION AT PIER

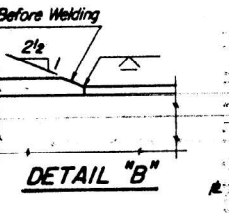
SECTION AT ABUTMENT



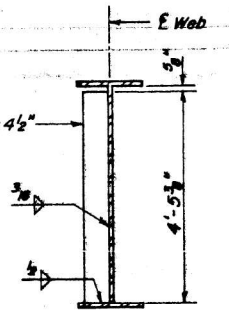
FIELD SPLICE DETAIL



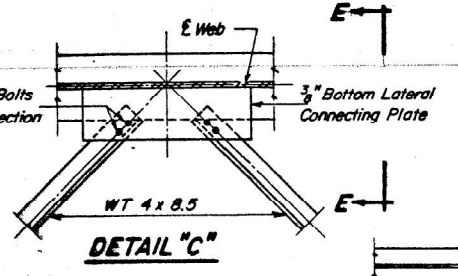
SECTION A-A



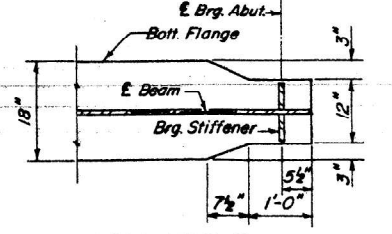
DETAIL 'B'



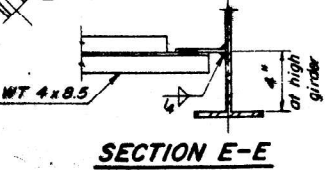
SECTION F-F



DETAIL 'C'



SECTION D-D



SECTION E-E

STRUCTURAL STEEL
F.A.I.R.T. 72 SEC. 58-65-HB-3
MACON COUNTY
STA. 691+68.56

DESIGNED	EXAMINED	DATE
Checked Sel	Richard J. Holterman	JULY 26 1972
DRAWN	PASSED	
P.G. Barnett	Richard J. Holterman	
CHECKED	PROVED	
Lee	Richard J. Holterman	
6-1	3-29-71	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 058-0092

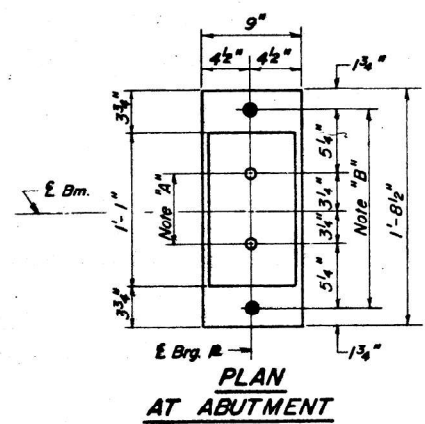
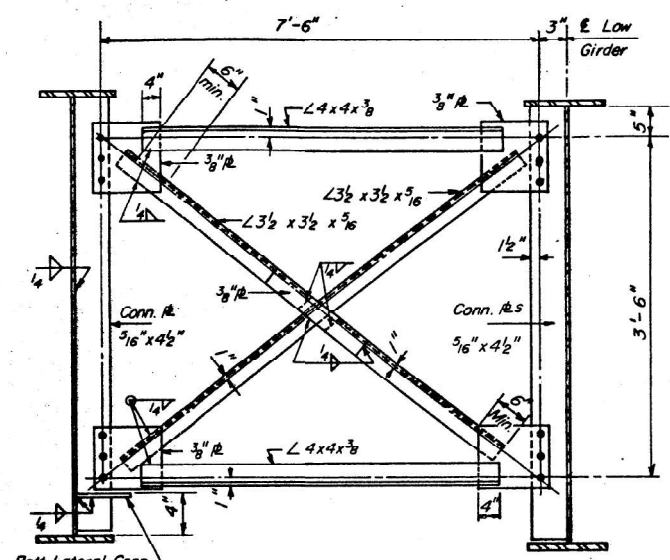
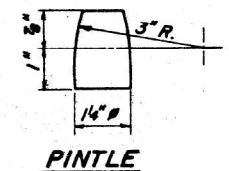
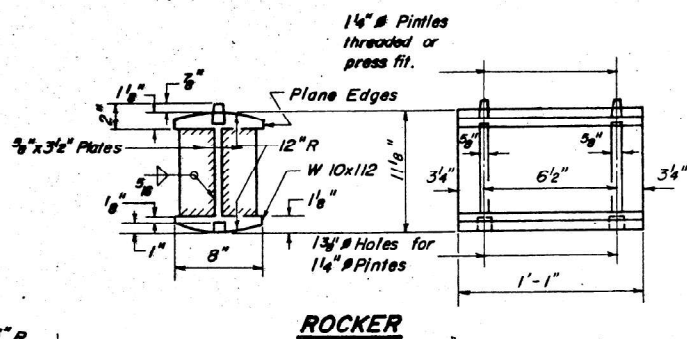
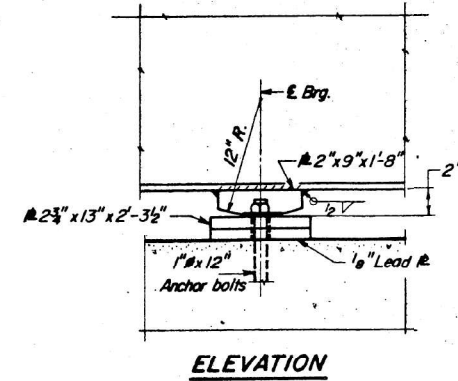
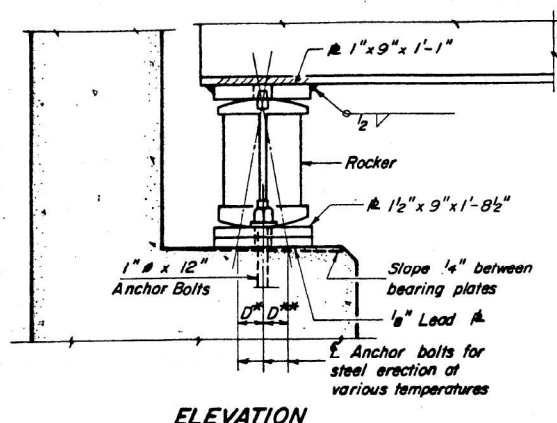
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	26
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				

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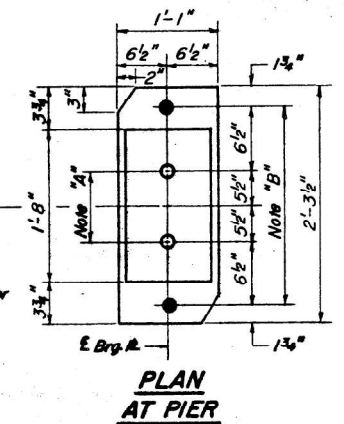
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	58-65 HB-3	MACON	39	16
ILLINOIS		FED. AID PROJECT		

SHEET NO. 6
12 SHEETS



Note "A"
1 3/8" # Holes - 1" deep in top flange for 1/4" # Pintles Thread or press fit pintles in bottom flange.



Note "B"
1 1/2" # Holes for 1" # Anchor Bolts - 2 1/2" x 2 1/2" x 3/4" # Washers under nut.

INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1	Pier
I_s (in ⁴)	28,073	86,332
I_c (in ⁴)	74,748	
S_s (in ³)	1286	2902
S_c (in ³)	1760	
Q (K/1)	1,032	1,595
M_E (K)	950.1	3618.8
$f_s E$ (ksi)	8.87	14.96
$s E$ (K/1)	0.563	
M_{sE} (K)	640.7	
M_E (K)	876.5	886.5
M_{Imp} (K)	192.8	195.1
Total (K)	1710.0	1081.6
$f_s E$ (ksi)	11.66	4.47
f_s Total (ksi)	20.53	19.43
VR (K)	40.84	

INTERIOR GIRDER REACTION TABLE

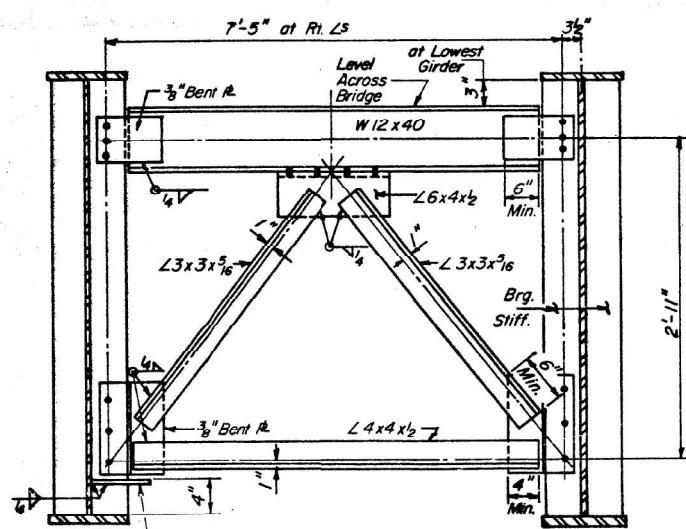
	Abut.	Pier
R_E (K)	71.75	257.66
R_L (K)	35.71	68.6
$Imp.$ (K)	7.85	15.1
R Total (K)	115.31	341.36

I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s .
 VR is the maximum $E + Impact$ shear range in span used to determine shear connector spacing.

TOP OF WEB ELEVATIONS

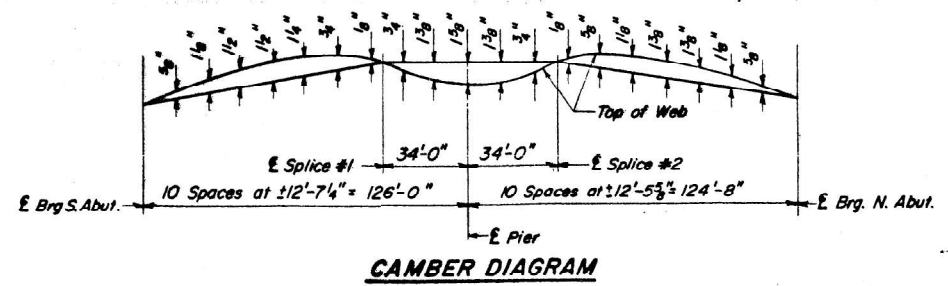
Bm. #	E Brg. S. Abut.	E Splice #1*	E Pier	E Splice #2*	E Brg. N. Abut.
1	703.90	704.60	704.48	704.63	704.08
2	704.09	704.75	704.62	704.76	704.16
3	704.14	704.77	704.62	704.74	704.11
4	704.06	704.64	704.48	704.59	703.92

*Elevations have been adjusted for camber.



NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a.) D^* (Side of brg. away from fixed brg.)
 $D^* = 9"$ per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
- D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = 9"$ per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b.) After beams have been erected and dimensions D^* & D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



BEARING DETAILS

F.A.I. RT. 72 SEC. 58-65-HB-3
MACON COUNTY
STA. 691+68.56

DESIGNED: *Joseph Lee*
CHECKED: *Sid Fattam*
DRAWN: *P. Barnett*
CHECKED: *Lee*

EXAMINED: *Richard F. Holtzman*
PASSED: *W. G. Baumann*
APPROVED: *Richard F. Holtzman*

July 26, 1972

I-2-G 3-29-71

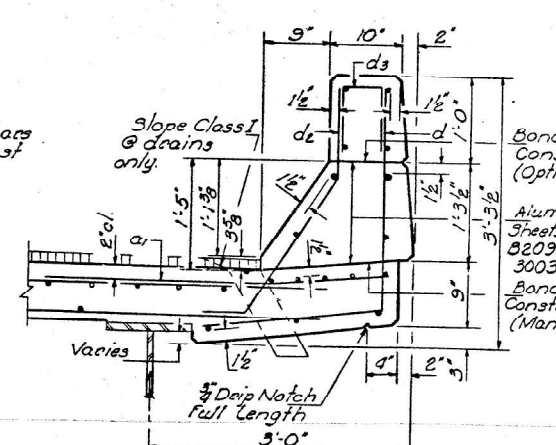
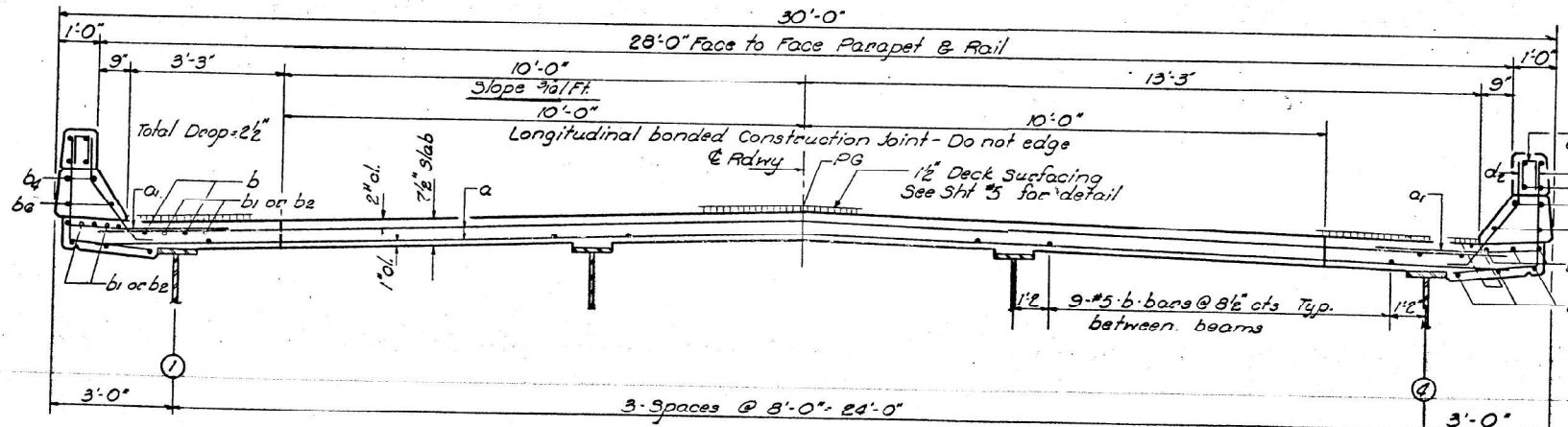
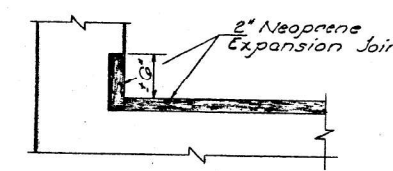
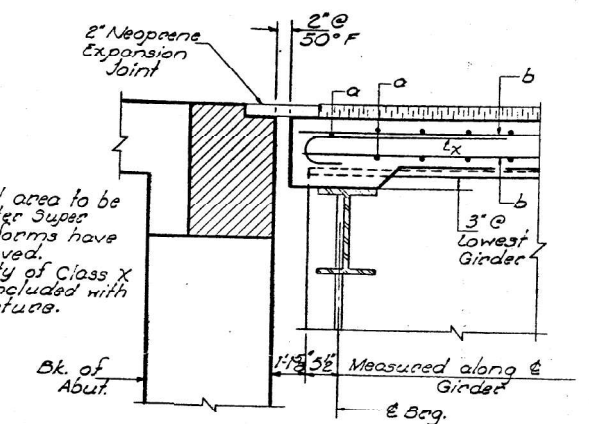
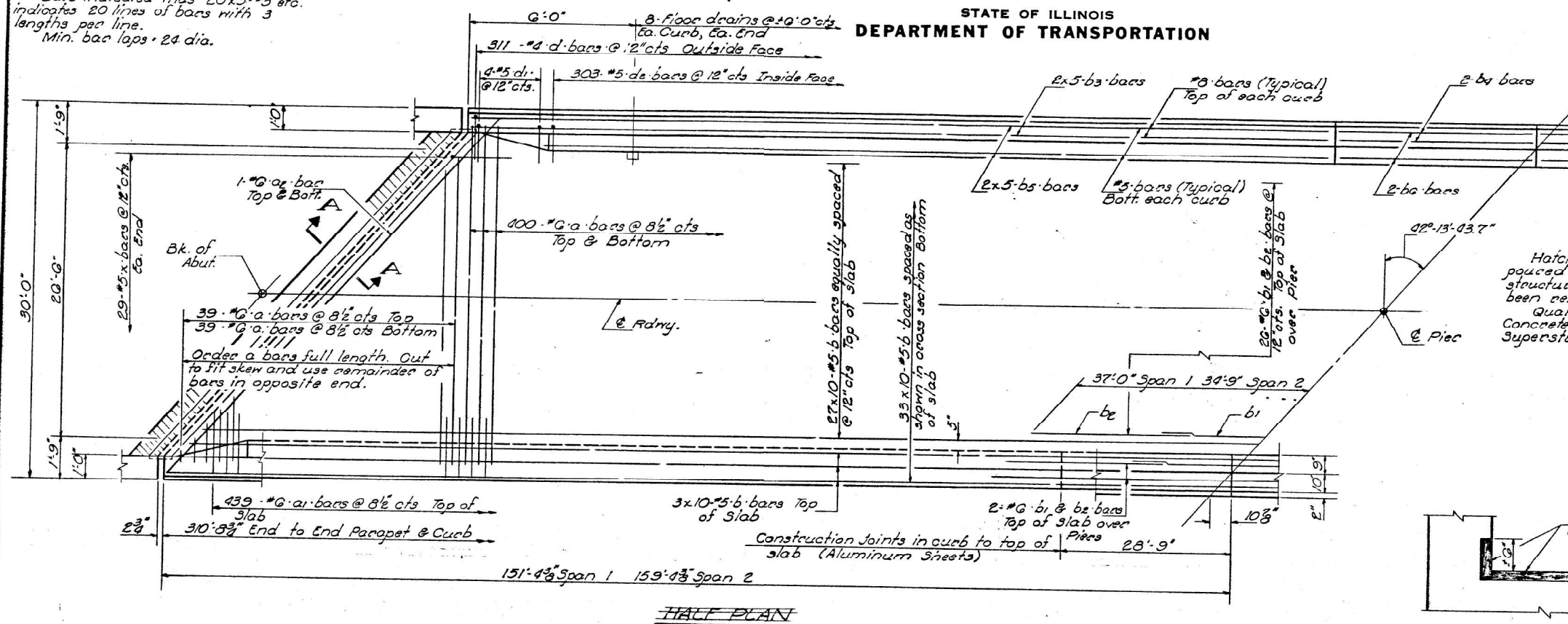
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PLOT SCALE = \$SCALES	CHECKED -	REVISED -			VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	27
PLOT DATE = 3/22/2024	DATE -	REVISED -			SCALE:				CONTRACT NO. 74C93
					SHEET	OF	SHEETS	STA.	TO STA.
									ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	58-66	MACON	41	15
F.A. RT. 72		CONTRACT NO. 74C93		15 SHEETS

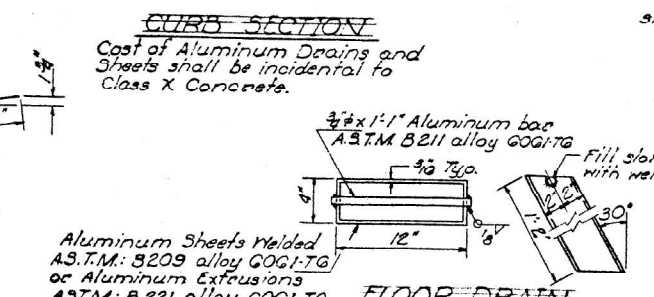
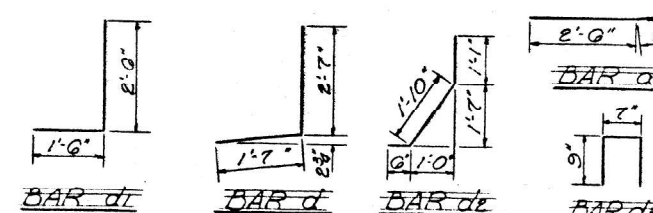
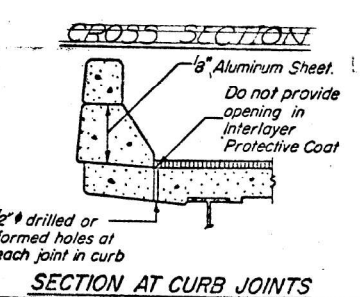
Notes:
Bars indicated thus 20x3-#5 etc.
indicates 20 lines of bars with 3
lengths per line.
Min. bar laps = 24 dia.



DESIGNED James Pence
CHECKED Suresh T. Desai
DRAWN J. SCHNELLER
CHECKED SD.

EXAMINED [Signature]
PASSED [Signature]
APPROVED Richard H. Holterman

Aug. 11 1972



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	878	#6	28'-0"	
a1	878	#6	4'-0"	
a2	4	#6	39'-8"	
b	660	#5	38'-5"	
b1	30	#6	47'-3"	
b2	30	#6	26'-0"	
b3	40	#8	28'-2"	
b4	8	#8	28'-0"	
b5	40	#5	27'-3"	
ba	8	#5	28'-0"	
d	622	#4	4'-2"	J
d1	16	#5	4'-0"	J
de	606	#5	3'-5"	J
ds	160	#4	2'-1"	J
x	58	#5	3'-9"	C
Class X Concrete				Cu. Yds 275.4
Reinforcement Bars				Lbs. 78,000

The lengths and quantities of longitudinal reinforcement and Class X Concrete in parapet are not included in the above quantities. See sheet #6.

For deck pouring sequence see sheet #5.

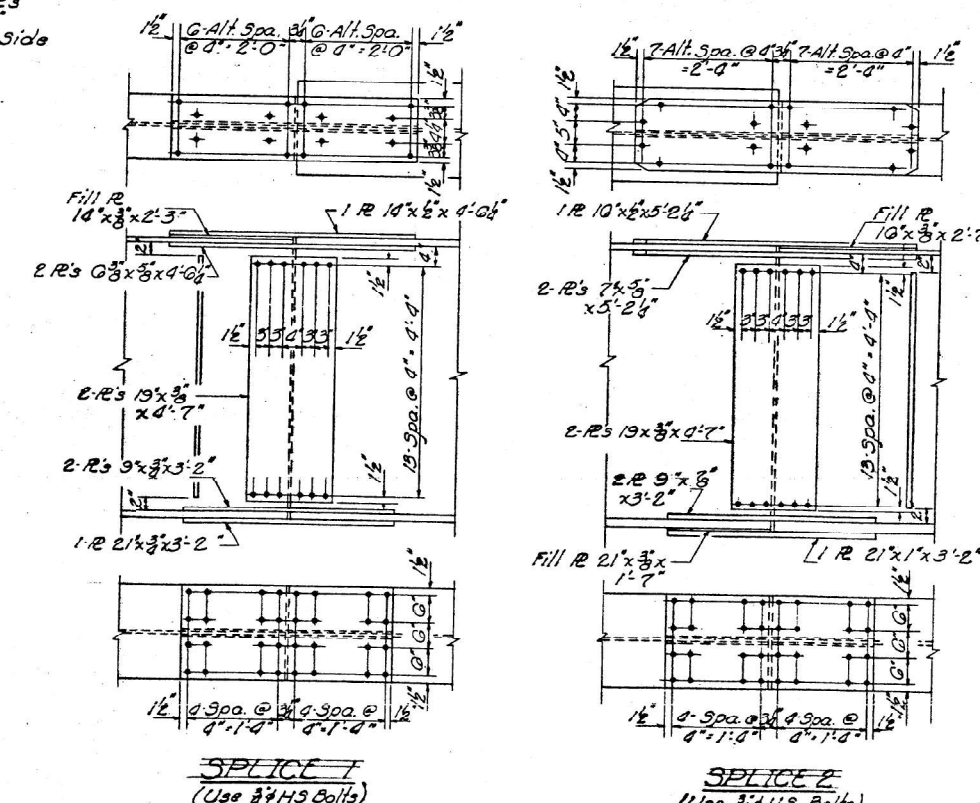
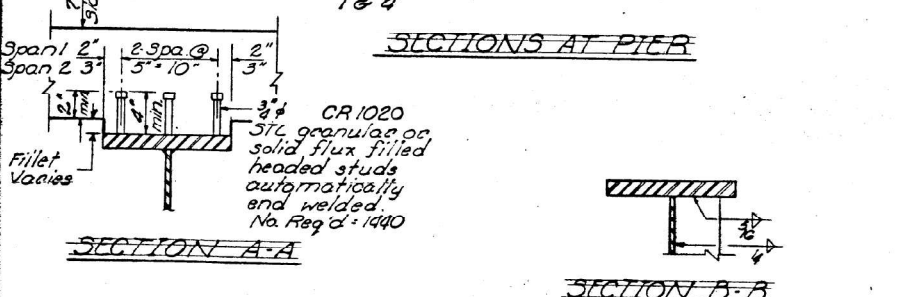
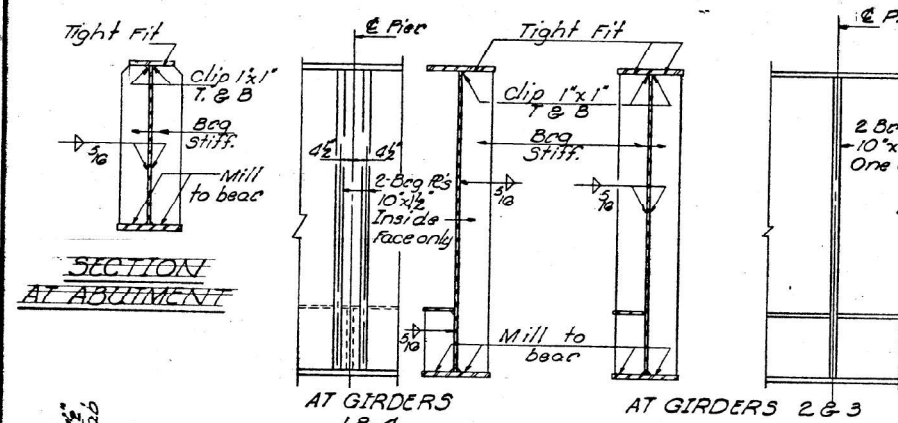
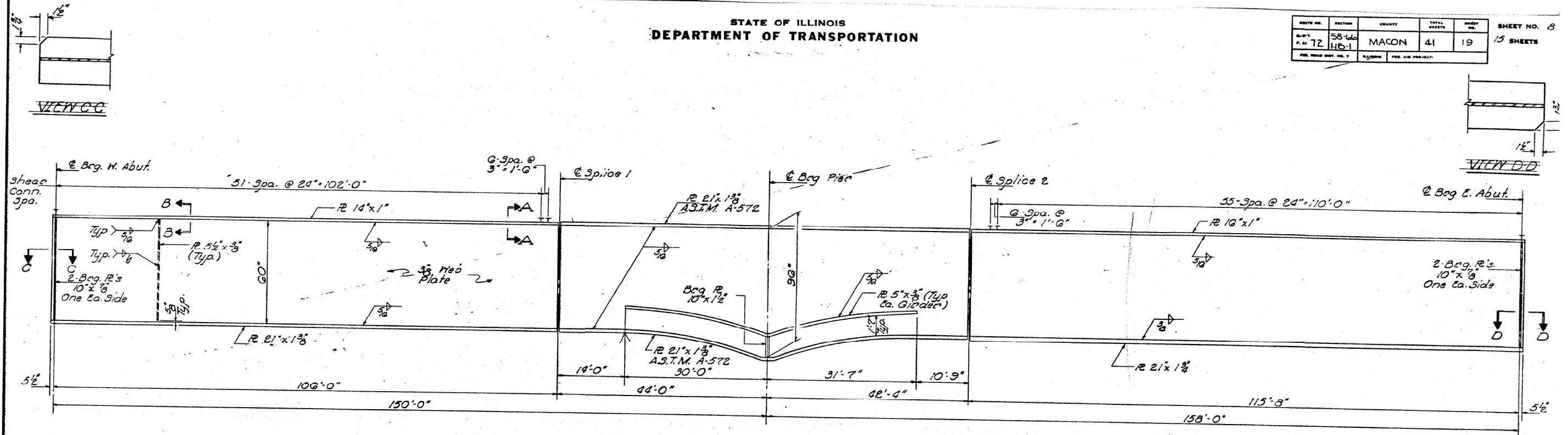
SUPERSTRUCTURE
F.A. RT. 72 SEC. 58-66-4B-1
MACON COUNTY
STA. 854+96.19

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PLOT DATE = 3/22/2024	CHECKED -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
	DATE -	REVISED -					ILLINOIS	FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	58-009	MACON	41	19
P.L. 72		140-1		
P.L. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



Note:
A.S.T.M. A-572 steel shall be Grade 50.

STRUCTURAL STEEL
FAL RT 72 SEC 58-009-48-1
MACON COUNTY
STA. 854+9.19

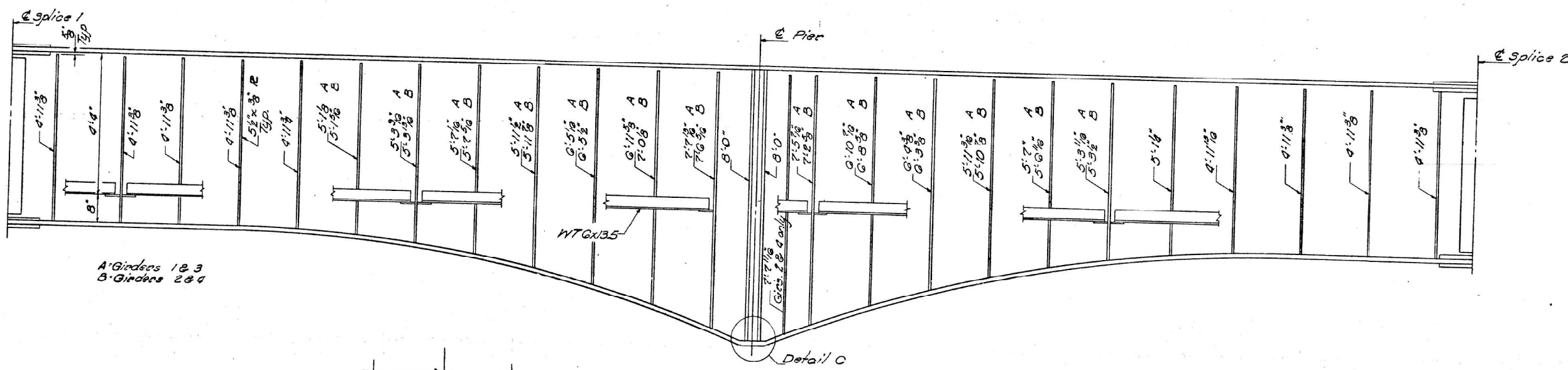
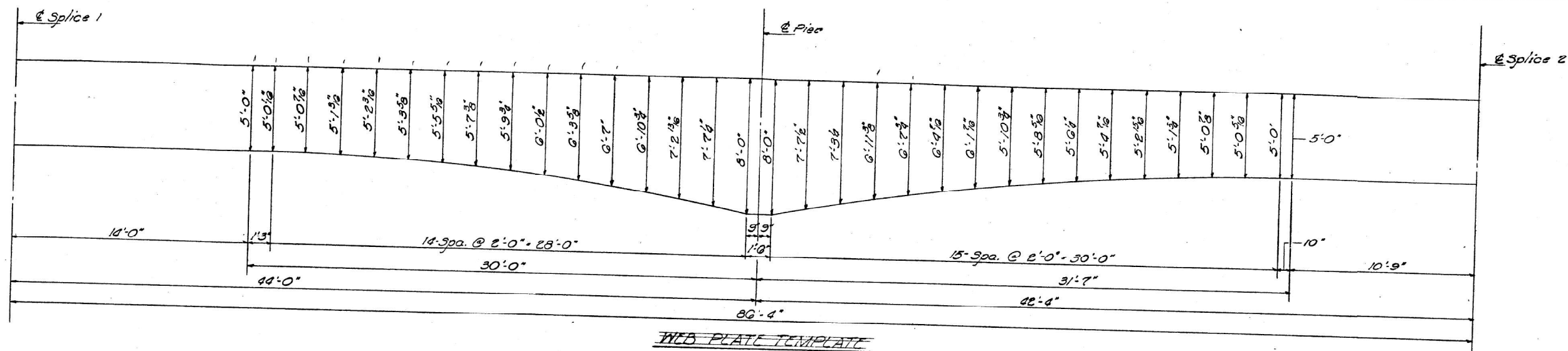
DESIGNED	James Pence	EXAMINED	Aug. 11 1972
CHECKED	Suresh T. Desai	PASSED	W. G. Blumensaat
DRAWN	J. SCHNELLER	APPROVED	Richard J. Holterman
CHECKED	S.D.		

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PLOT DATE = 3/22/2024	CHECKED -	REVISED -			SCALE:			CONTRACT NO. 74C93	
	DATE -	REVISED -			SHEET	OF	SHEETS	STA.	TO STA.
								ILLINOIS	FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	QUANTITY	TOTAL SHEETS	SHEET NO.
7/2	58-LL HB-1	MACON	41	20
PER. ROAD DIV. NO. 7		ILLINOIS	FED. AID PROJECT	15 SHEETS



A Girders 1 & 3
B Girders 2 & 4

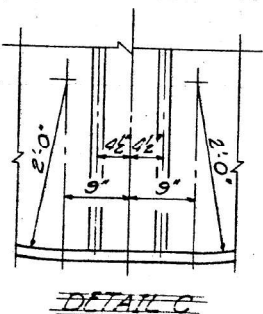
HAUNCH DETAILS

NOTE:
Place transverse stiffeners on inside face of exterior girders.

STRUCTURAL STEEL DETAILS
F.A. RT. 72 SEC. 58-66-HB-1
MACON COUNTY
STA. 854+91.19

DESIGNED	James Pence
CHECKED	Suresh T. Desai
DRAWN	J. SCHNEIDER
CHECKED	S.D.

EXAMINED	Aug. 11 1972
PASSED	Richard H. Hollerman
APPROVED	Richard H. Hollerman



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	DRAWN -	REVISED -
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PLOT DATE = 3/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 058-0097

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 BRIDGE PAINTING 2024-3	MACON	32	32
CONTRACT NO. 74C93				
ILLINOIS FED. AID PROJECT				