

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24*	1
		ILLINOIS	CONTRACT NO. 74B54	

* 24 + 1 = 25 TOTAL SHEETS

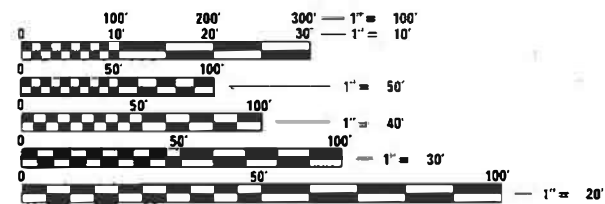
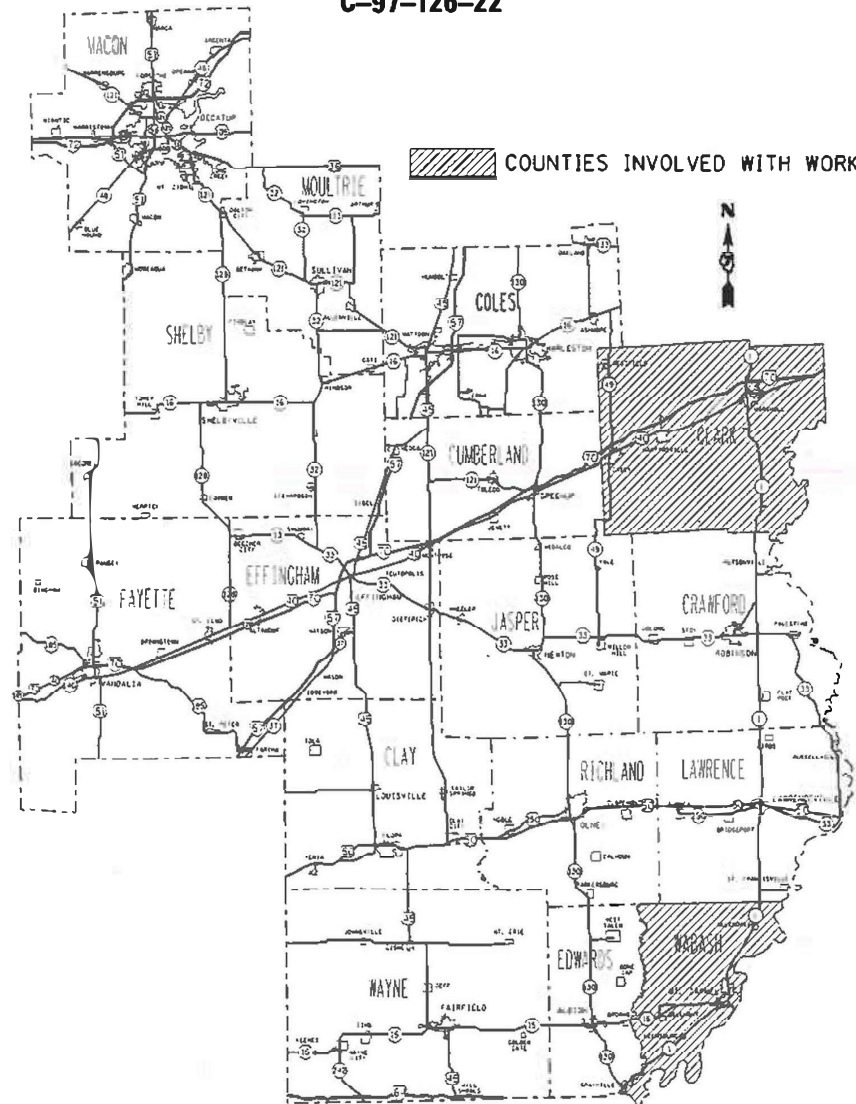
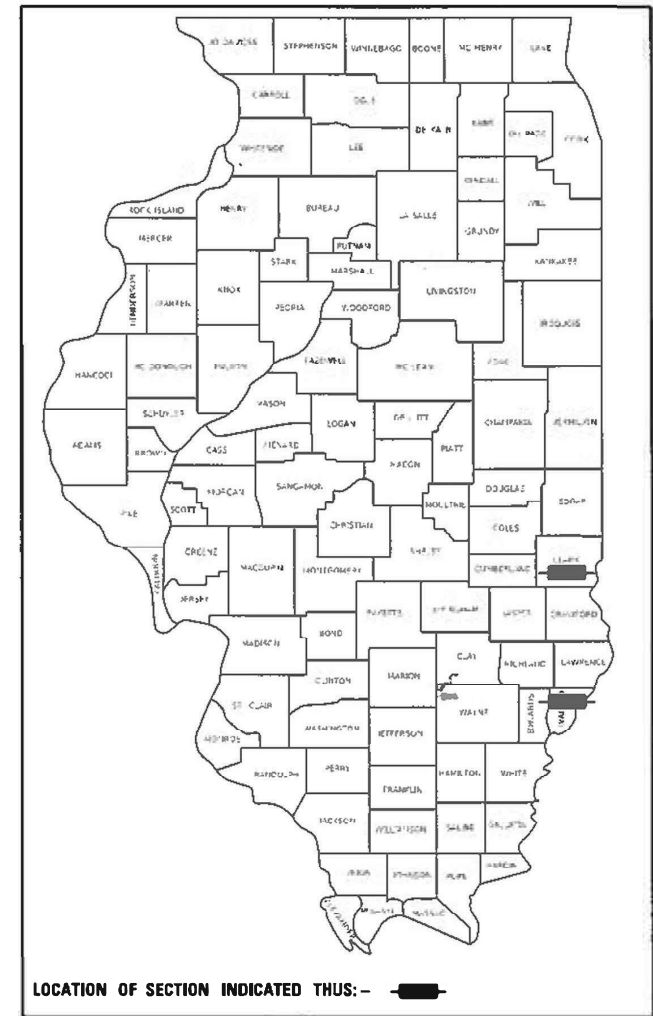
D-97-075-22

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
(FAP 832, FAP 332, & FAI 70)
SECTION D7 BRIDGE PAINTING 2023-2
PROJECT STP-T3C7(689)
BRIDGE PAINTING
CLARK & WABASH COUNTIES

C-97-126-22



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: DESTINY WILLIAMS
PHONE: 217-342-8359
CONTRACT NO. 74B54

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 9 2023
Jeffrey P. Myrland
REGIONAL ENGINEER

March 24, 2023
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED AT 5 LOCATIONS: ON INTERSTATE 70, US 40, AND IL 1 IN CLARK AND WABASH COUNTY.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING THE BRIDGES 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.

THE FOLLOWING INDIVIDUALS SHALL BE CONTACTED BEFORE CLOSING THE INDIANA WEIGHT STATION RAMP UNDER SN 012-0047:

TERRE HAUTE WEIGH STATION SUPERVISOR: PHIL KASHON 812-239-4664
PHIL KASHON'S SUPERVISOR: KIM JUDGE 317-995-3809

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTIONS
3-3A	SUMMARY OF QUANTITIES
4-7	LOCATION MAP
8-24	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
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15' AWAY
701201-05	LANE CLOSURE, 2L, 2W, FOR SPEEDS >= 45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-11	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
701451-05	RAMP CLOSURE FREEWAY / EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

LOCATION #1

BRIDGE # 1
ROUTE: FAI ROUTE 70
MARKED: I-70
SECTION: 12-54HB-3
STATION: 545+13.87
STRUCTURE NUMBER: 012-0047, CARRYING 2600TH ST OVER I-70
CLARK 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 #2

BRIDGE # 2
ROUTE: FAI ROUTE 70
MARKED: I-70
SECTION:
STATION:
STRUCTURE NUMBER: 012-0050, CARRYING I-70 OVER EMBARRAS RIVER
CLARK 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, 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.

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.

LOCATION #3

BRIDGE # 3
ROUTE: FAI ROUTE 70
MARKED: I-70
SECTION:
STATION:
STRUCTURE NUMBER: 012-0051, CARRYING I-70 OVER EMBARRAS RIVER
CLARK 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, 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.

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.

LOCATION #4

BRIDGE # 4
ROUTE: FAP 832
MARKED: IL 49
SECTION: 111BR
STATION: 381+86
STRUCTURE NUMBER: 012-0064, CARRYING IL 49 OVER STREAM
CLARK 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, 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.

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 #5

BRIDGE # 5
ROUTE: FAP 332
MARKED: IL 1
SECTION: (102,101D)BR
STATION: 520+56
STRUCTURE NUMBER: 093-0020, CARRYING IL 1 OVER COFFEE CREEK
WABASH 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.

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.

One air monitors will be required at this location.

REV. - MS

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/8/2023	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 2023-2	VARIOUS	24	2
			CONTRACT NO. 74854	
		ILLINOIS	FED. AID PROJECT	

80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0047 CLARK COUNTY	0047 WABASH COUNTY
67100100	MOBILIZATION	L SUM	1	0.8	0.2
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.7	0.3
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1	
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1	
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	2600	2600	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1516	1516	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	405	405	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0047 CLARK COUNTY	0047 WABASH COUNTY
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1500	1500	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	9	9	
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	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1	

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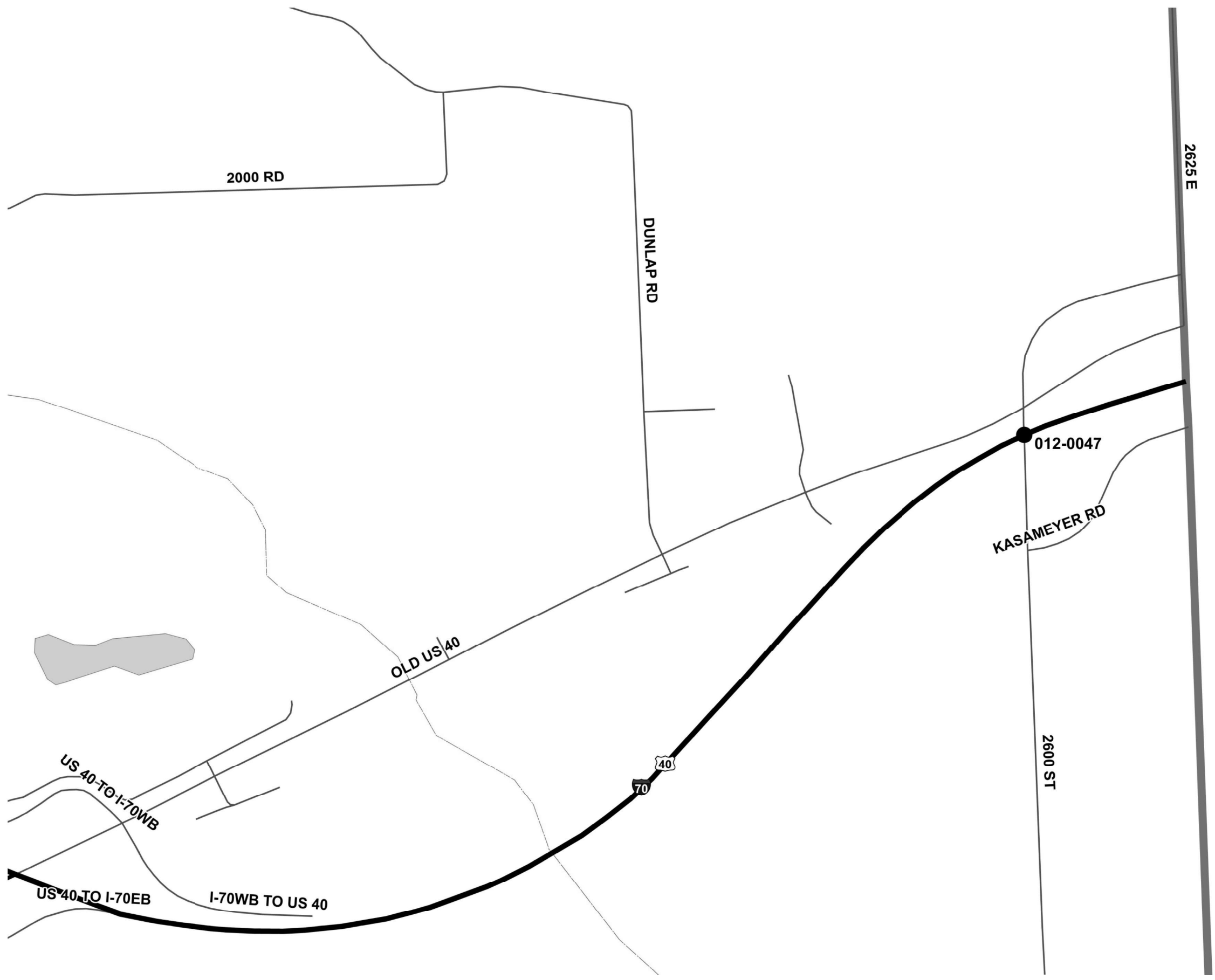
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	3
			CONTRACT NO. 74B54	
		ILLINOIS FED. AID PROJECT		

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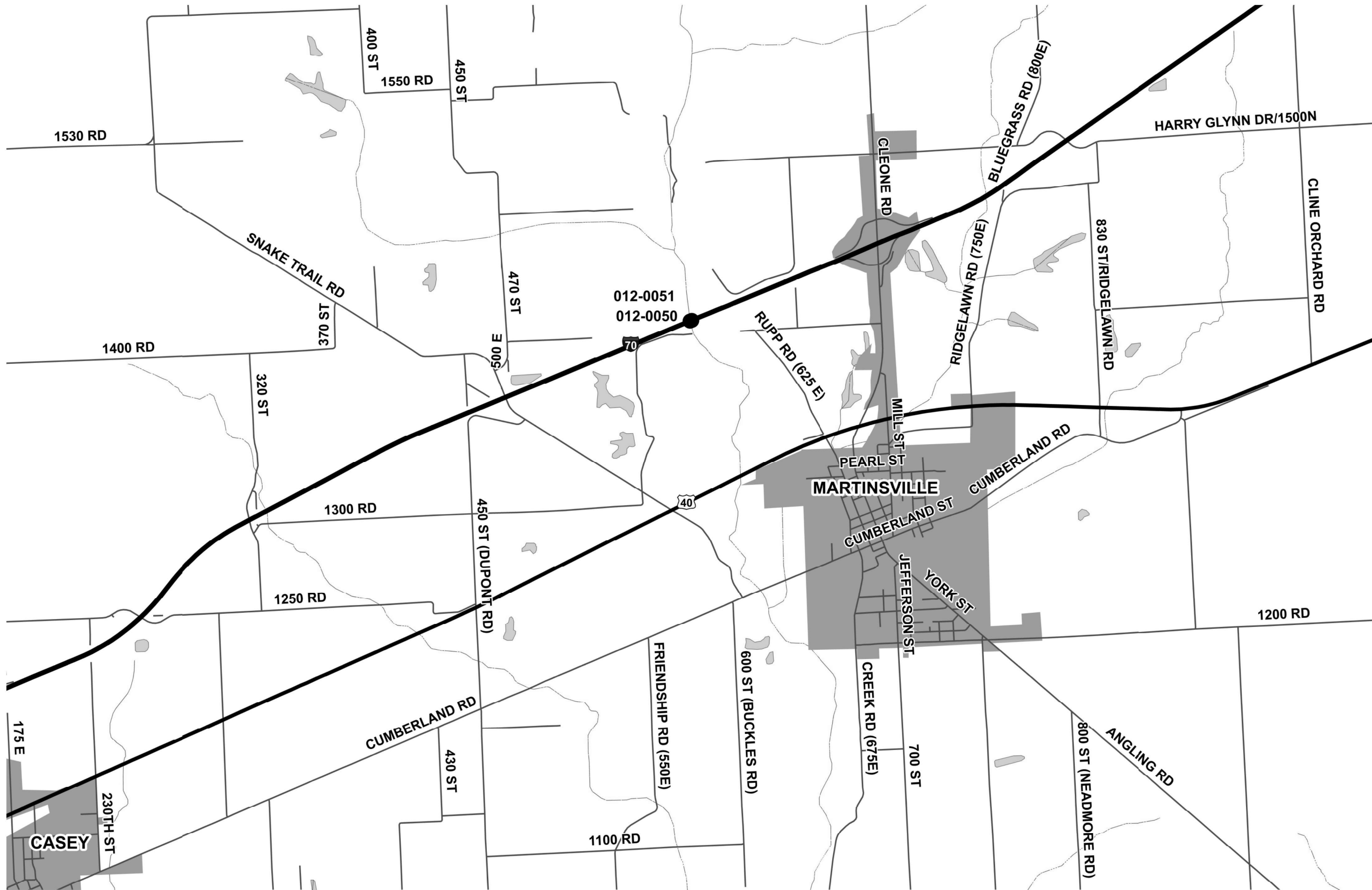


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	DRAWN -	REVISED -
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PLOT DATE = 2/8/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1				
SN 012-0047				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	4
CONTRACT NO. 74B54				
ILLINOIS FED. AID PROJECT				



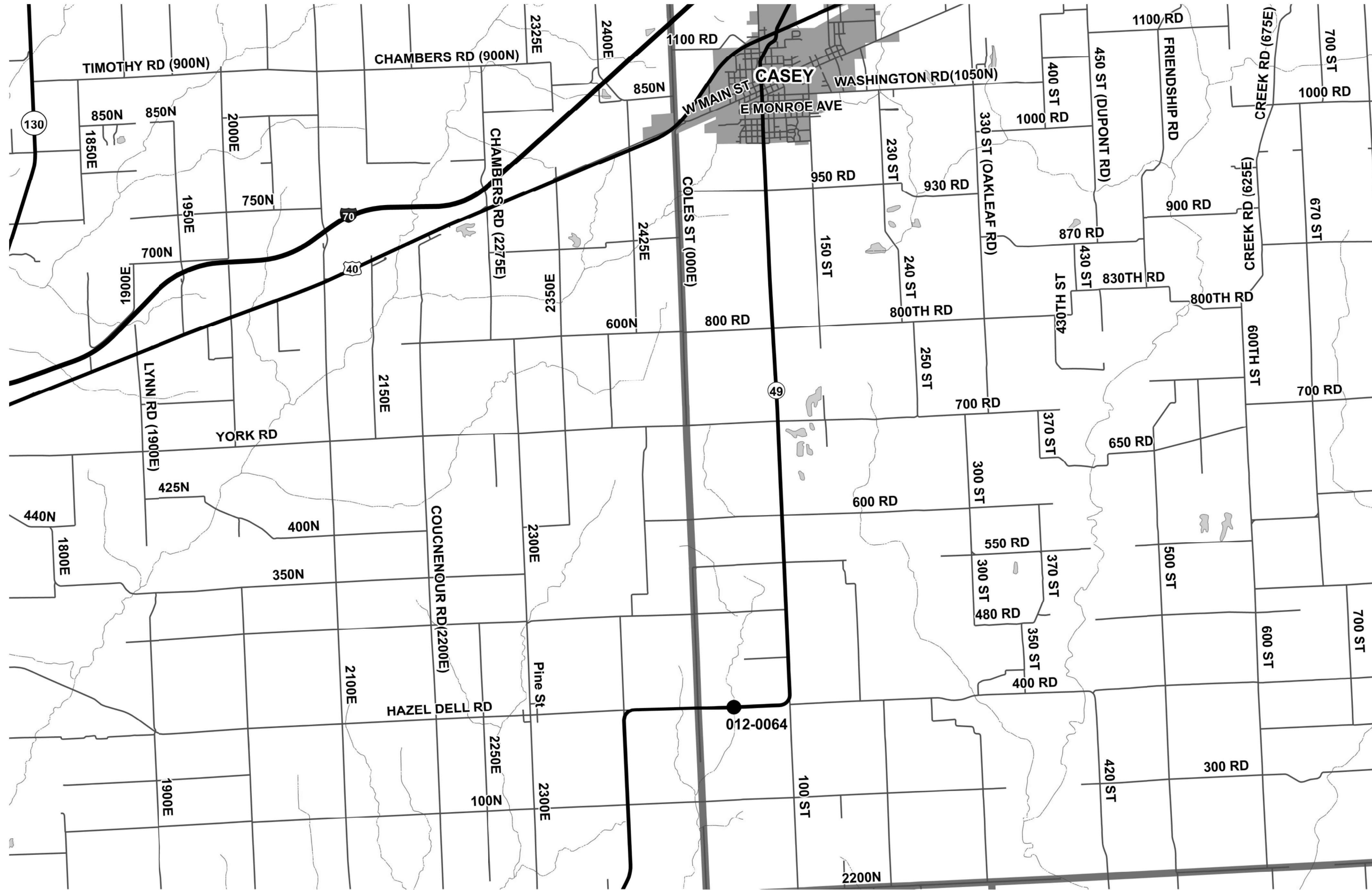
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	DRAWN -	REVISED -
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PLOT DATE = 2/8/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2 & 3				
SN 012-0050 & 51				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	5
			CONTRACT NO. 74854	
ILLINOIS FED. AID PROJECT				



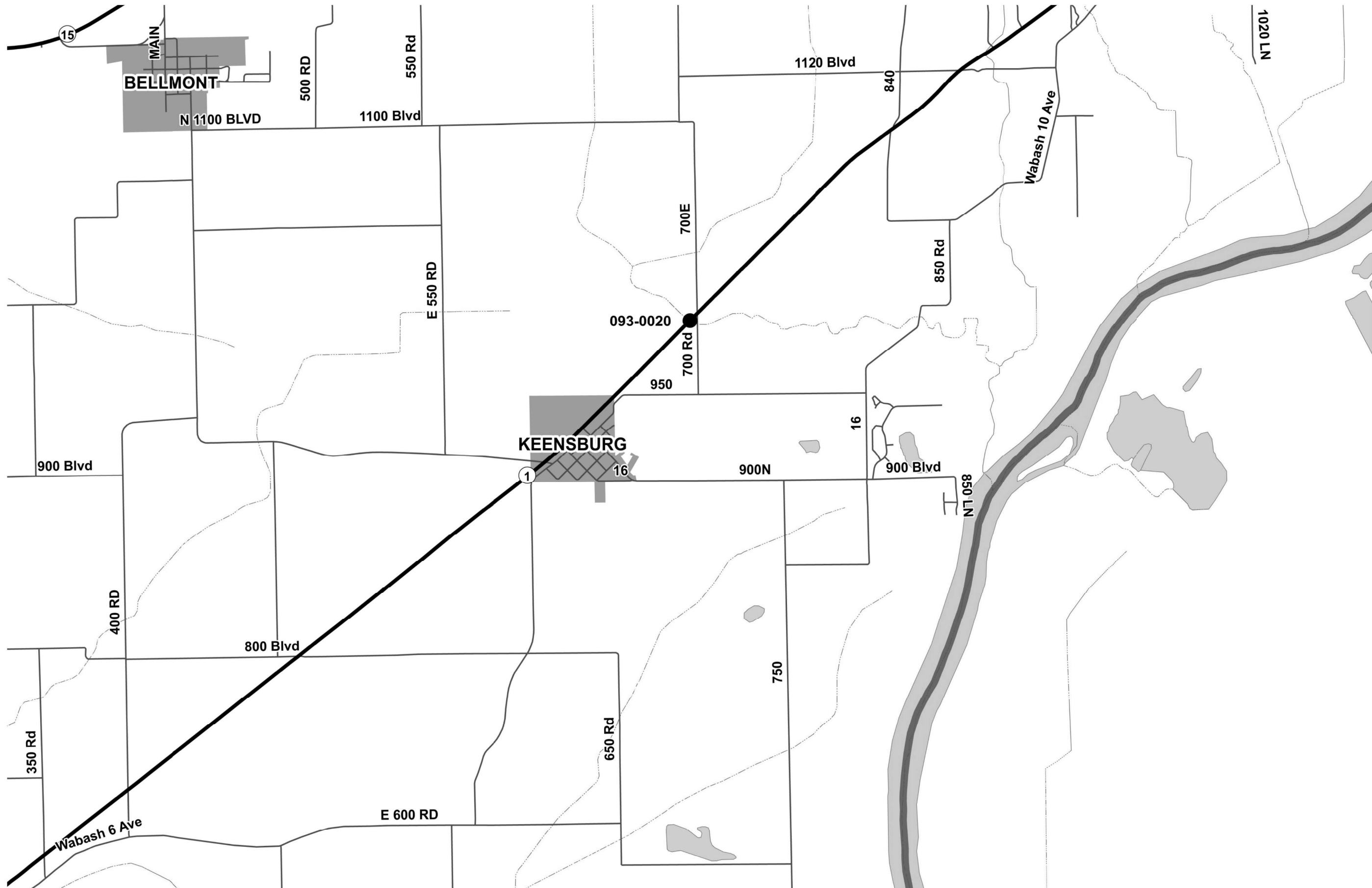
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PLOT DATE = 2/8/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4			
SN 012-0064			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7	BRIDGE PAINTING 2023-2	VARIOUS	24	6
			CONTRACT NO. 74B54	
ILLINOIS FED. AID PROJECT				



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	DRAWN -	REVISED -
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PLOT DATE = 2/8/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5				
SN 093-0020				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	7
			CONTRACT NO. 74854	
ILLINOIS FED. AID PROJECT				

B.M. # 108 E Chiseled Square on Hdwl. 68' Rt. of Sta. 551+39 Elev. 557.94.

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

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-54 HB-3	CLARK	38	14	11

Excavation for portions of structures in the embankments shall not be classified.

GENERAL NOTES

Class X Concrete shall be used throughout. Coarse aggregate to be used in parapet handrails and end post must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications.

Sloped wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 58# per 100 Sq. Ft.

All reinforcement bars shall be lapped 20 dia. unless otherwise shown.

Rivets #4, Open holes 1/2", unless otherwise noted.

Anchor bolts shall be set before riveting diaphragms over supports.

The exposed surfaces of the expansion guards shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.

Expansion guards are included in the Qty. of Struct. Steel. Est. weight 800#

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions for field paint.

Permanent forms will not be permitted in forming the concrete floor.

All structural steel shall comply with the specification for structural steel ASTM Designation A-36

The Contractor shall drive two (2) steel (8BP36) Test Piles, one each at south abutment and Pier 3 in Permanent Location, as directed by the Engineer before ordering the remainder of Piles.

TOTAL BILL OF MATERIAL

ITEM	Super.	Sub.	Total
Class A Excavation for Struc. Cu.Yds.			170
Class X Concrete Cu.Yds.	282.3	261.3	543.6
Structural Steel Lbs	295,890		295,890
Aluminum Handrail Lin.Ft.	655		655
Reinforcement Bars Lbs	66,680	20,680	87,360
Steel Piles (8BP36) Lin.Ft.		1742	1742
Test Piles (Steel 8BP36) Ea.		2	2
Name Plates Ea.		2	2
Slope Wall (4') Sq.Yds			366
Protective Coat Sq.Yds			1265

*Includes inside vertical face, top & exposed end of the abut wings.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/4 OF THE SPAN EACH WAY FROM PIER SUPPORTS OR THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

GENERAL PLAN & ELEVATION

PROJECT 12-70-4(62) 147

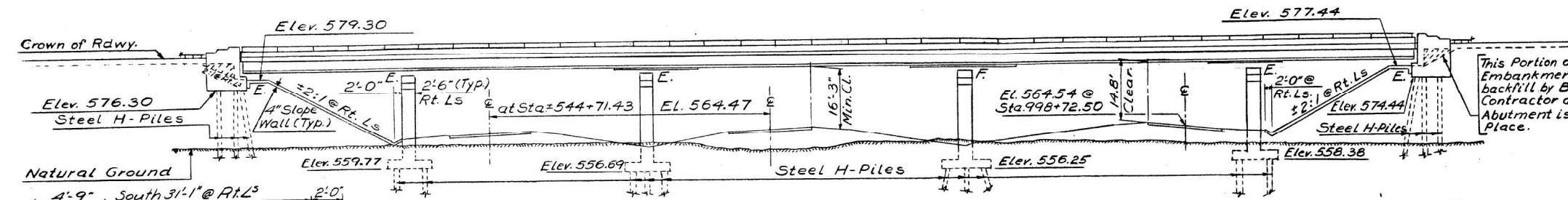
F.A.I. RT. 70 - SECTION 12-54 HB-3

CLARK COUNTY

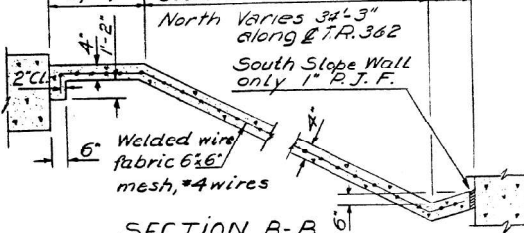
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STA. 927+01.01 (T.R. 362)

STA. 998+36.98 (RELOC. F.A.-12)



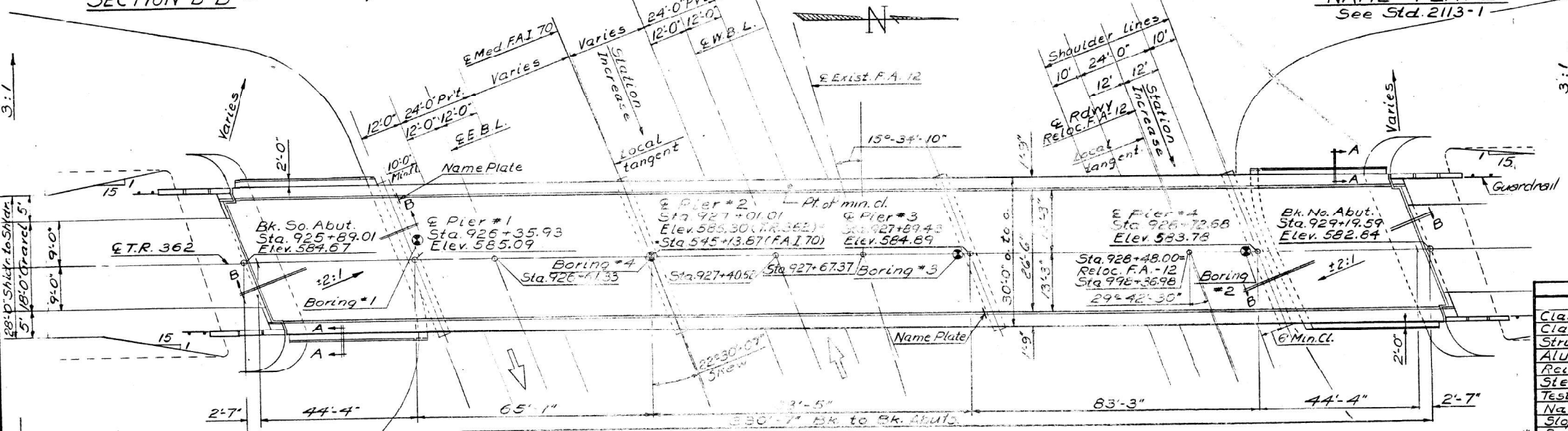
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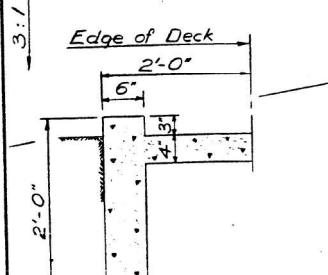
SECTION B-B

STATION 545+13.87
BUILT 196
BY
STATE OF ILLINOIS
F.A.I. RTE. 70 SEC. 12-54 HB-3
F.A. PROJ. I-16-70-4(62)
LOADING HS 15

NAME PLATE
See Std. 2113-1



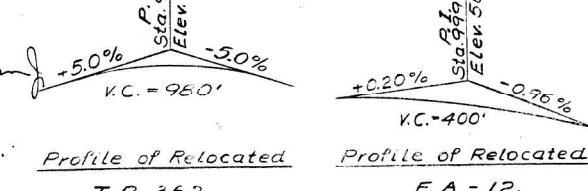
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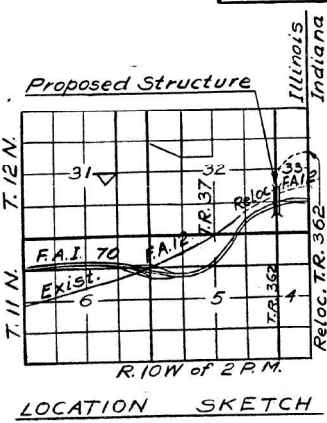
SECTION A-A

DESIGNED	R.D. PATEL
CHECKED	[Signature]
DRAWN	V.H. [Signature]
CHECKED	[Signature]

EXAMINED
PASSED
APPROVED



DESIGN STRESSES
ft = 1400 psi Super. & Sub. **
Vc = 75 psi Footing
fs = 20,000 psi. Reinf.
fs = 20,000 psi. Struct. (A-36)
n = 10
Allowable & Dev't. 4,000
LOADING : HS 15-44
** fc = 1200 psi for deck slab only



LOCATION SKETCH

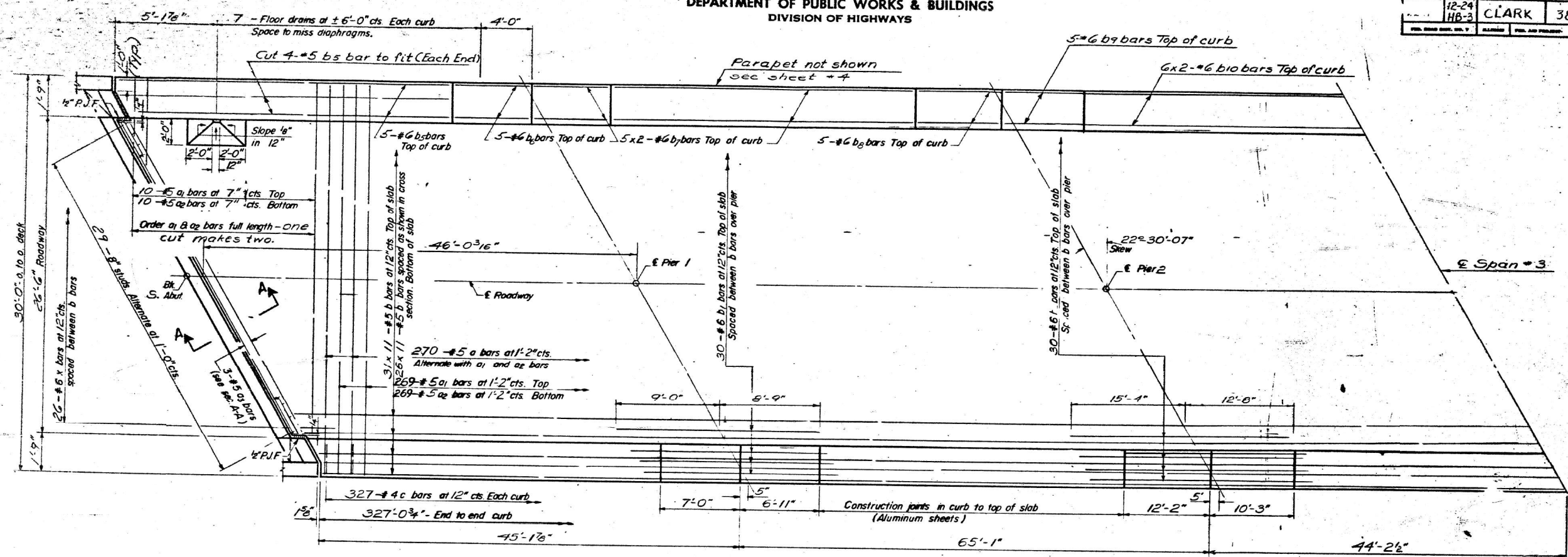
Rev. 3/1/67 Straightened wings & added guard rail. Changed quantities of Class X Conc. & Reinf. Bars R2

Revised 6-2-67 W.P. Class X Conc. changed from 577.9 cu. yds. to 553.6 cu. yds. Reinforcement Bars from 86,090 lbs. to 86,680 lbs.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

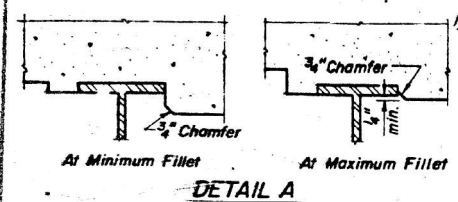
EXISTING STRUCTURE PLANS
SN 012-0047

USER NAME = Jessica.Hille	DESIGNED -	REVISD -	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
PLOT SCALE = 100,000' / 1 in.	DRAWN -	REVISD -	VAR. D7 BRIDGE PAINTING 2023-2	VARIOUS	24	8					
PLOT DATE = 2/8/2023	CHECKED -	REVISD -					CONTRACT NO. 74854				
	DATE -	REVISD -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT

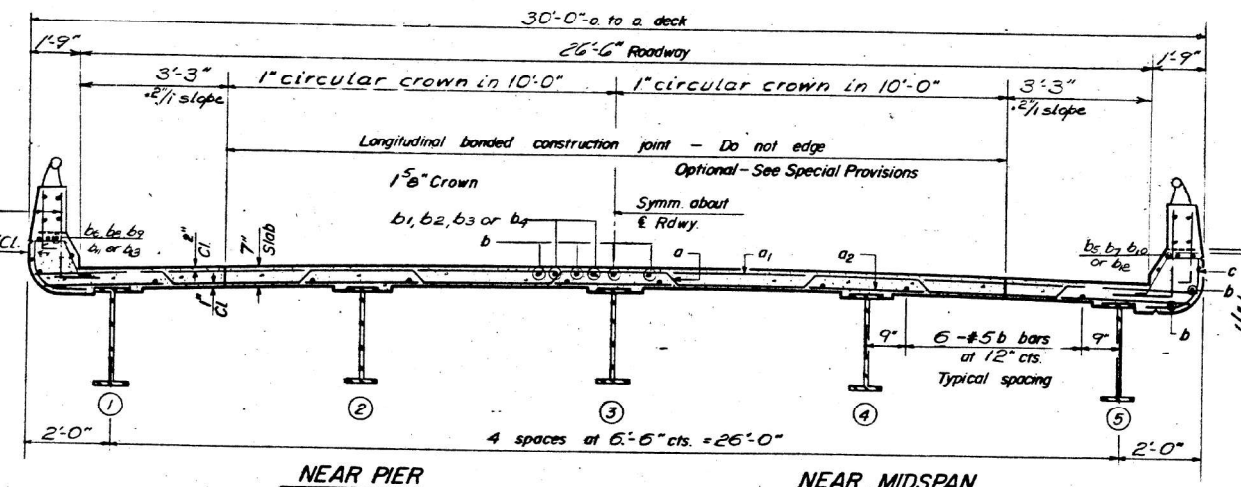


PART PLAN

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



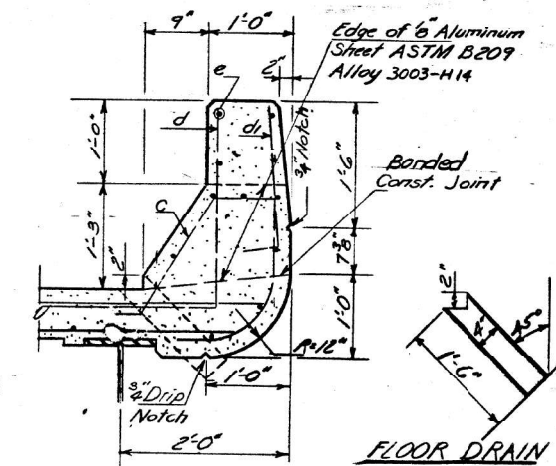
DETAIL A



NEAR PIER

CROSS SECTION

NEAR MIDSPAN



CURB DETAIL

Cost of Aluminum Drains and Sheets
shall be incidental to Class X Concrete.
For spacings & locations of
d, d1, & e bars see sh. # 4.
All clearance for reinforcement
bars shall be 1/2" unless
otherwise shown.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	270	#5	30'-6"	
a1	289	#5	29'-6"	
a2	289	#5	29'-0"	
a3	6	#5	25'-8"	
b	627	#5	31'-0"	
b1	30	#6	17'-9"	
b2	30	#6	28'-0"	
b3	30	#6	31'-6"	
b4	30	#6	26'-0"	
b5	20	#6	37'-10"	
b6	20	#6	6'-8"	
b7	20	#6	23'-6"	
b8	30	#6	11'-10"	
b9	10	#6	9'-11"	
b10	20	#6	33'-6"	
b11	10	#6	12'-6"	
b12	20	#6	31'-3"	
b13	10	#6	8'-7"	
c	654	#4	5'-3"	
x	52	#6	5'-2"	

Reinforcement Bars Lbs. 66,060
Structural Steel Lbs. 295,890
Class X Concrete Co. Yd. 292.3

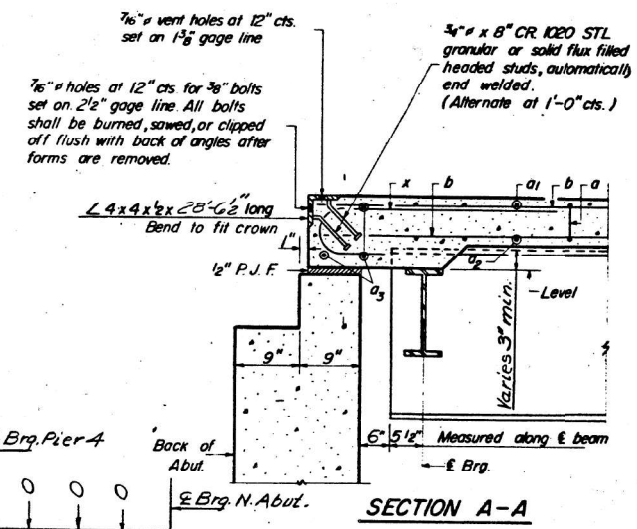
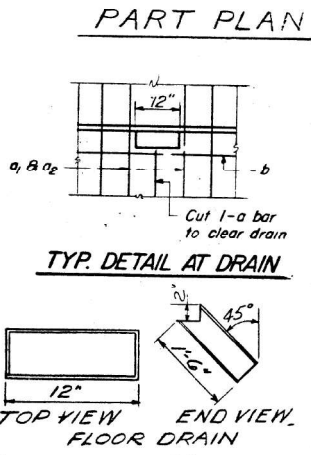
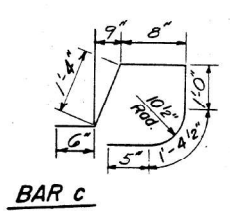
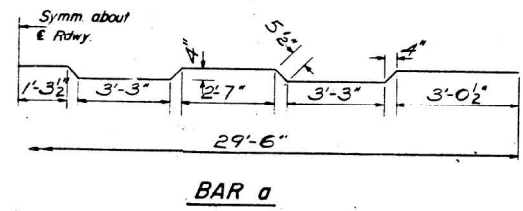
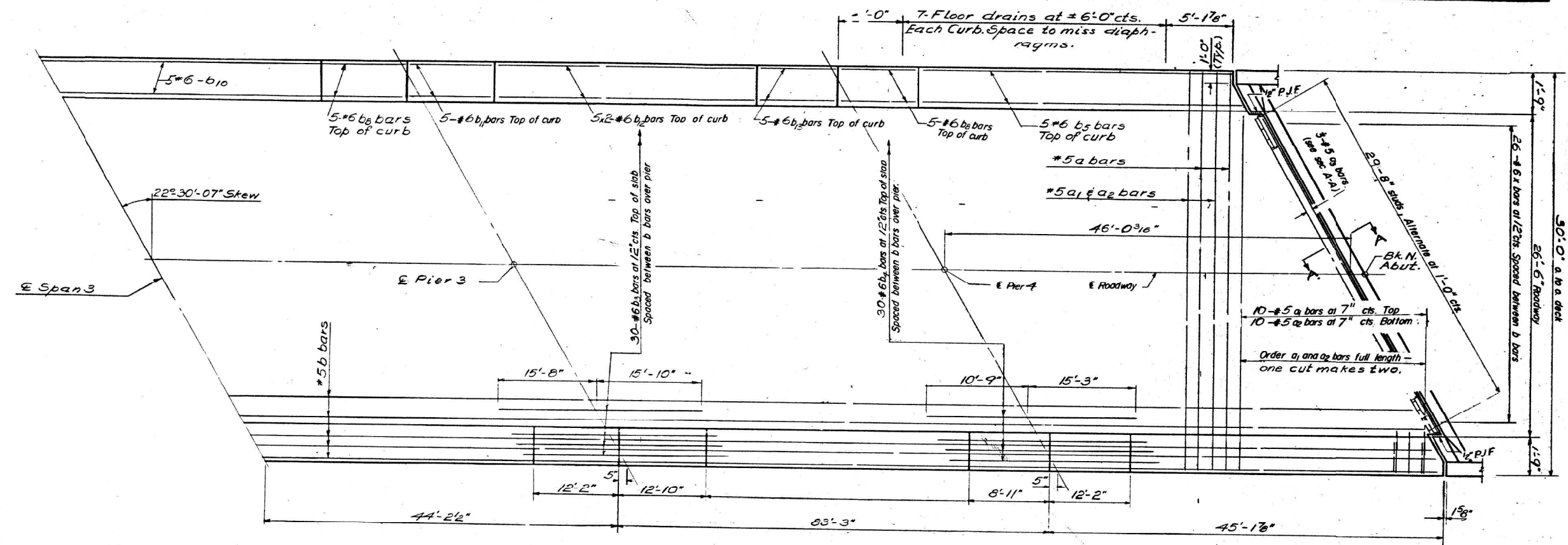
* Weight of bearing assemblies with
lead plates, and anchor bolts are
included as structural steel.
Est. Wt. = 9,060 #

SUPERSTRUCTURE
F.A.I. RT. 70 - SEC. 12-54 HB-3

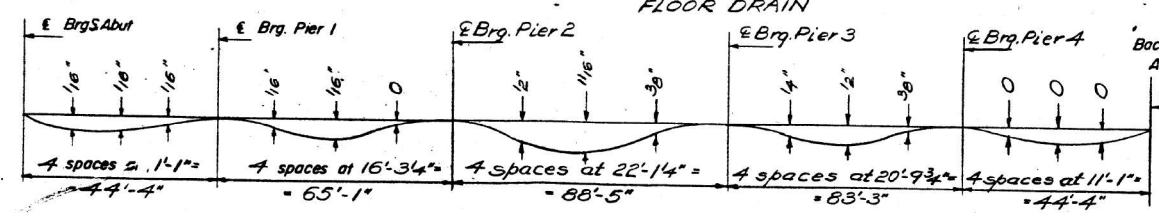
CLARK COUNTY
STA. 545 + 13.87 (F.A.I.)

DESIGNED R.D. PAZEL
CHECKED [Signature]
DRAWN J.H. [Signature]
APPROVED [Signature]

Rev. 3/1/67 Changed reinf. in slab
Revised 6-2-67 w.A. Change 6-#5 b bars in curb to 3-#6 b bars, Curb Detail,
Class X Conc. from 3/6.6 cu yds. to 292.3 cu yds. Reinf. Bars from 65,410 lbs. to 66,060 #



STANDARD FILLET DETAIL
To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet #10. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheet #10, minus 3/4 slab thickness, equals the fillet heights "f" above top of beams.



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet #10

SIGNED R.D. PATIL
CHECKED [Signature]
DRAWN [Signature]
CHECKED [Signature]

EXAMINED [Signature] Oct 19 1965
PASSED [Signature]
APPROVED [Signature]

Revised 6-2-67 W.H. Change 6-#5-6 bars in curb to #3-#6 bars Floor Drain.

SUPERSTRUCTURE
F.A.I.R.T. 70-SEC. 12-54 HB-3
CLARK COUNTY
STA 545+13.87 (F.A.I.)

MODEL: Default FILE: NAME: p:\p\struct-cw-beadefr.com\PIV\DOT\Documents\1\DOT Office\Director 7\Projects\74854\CLARK\DATA\CAD\Project\74854-SP-Plan.dwg

USER NAME = Jessica.Hille	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/8/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

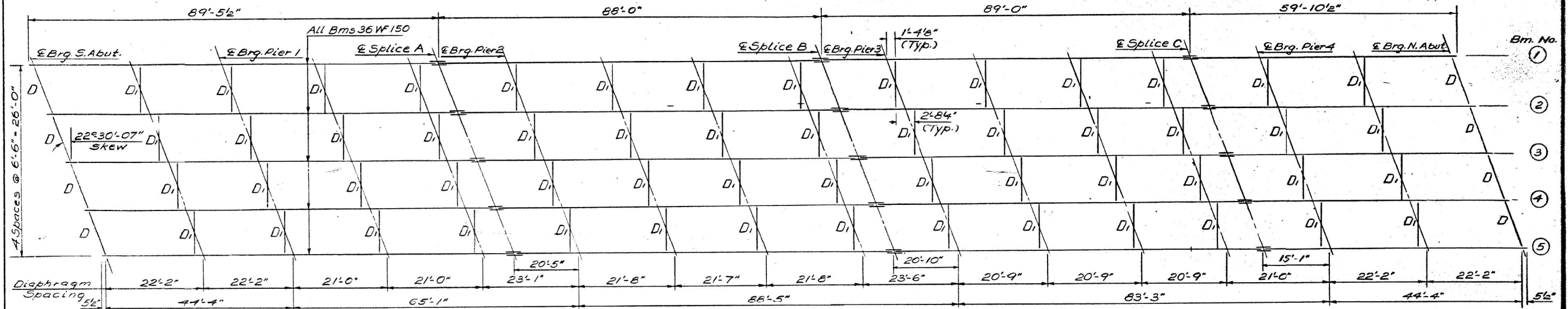
EXISTING STRUCTURE PLANS
SN 012-0047

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74854	

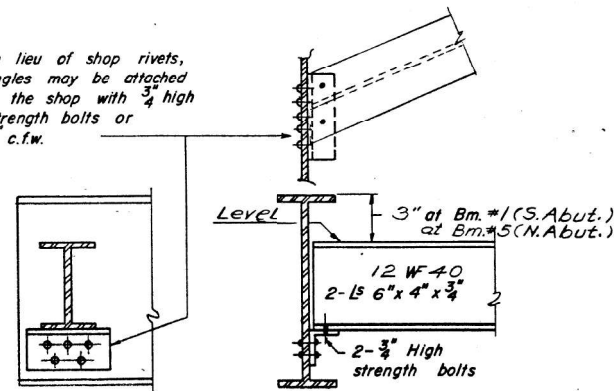
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	DESIGNER	CHECKER	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.I. 70	12-54 HB-3	CLARK	38	18	11 SHEETS



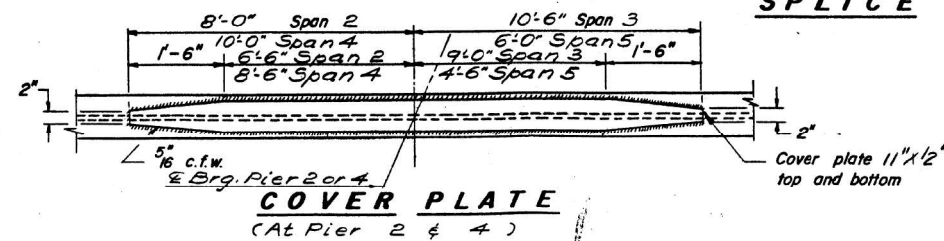
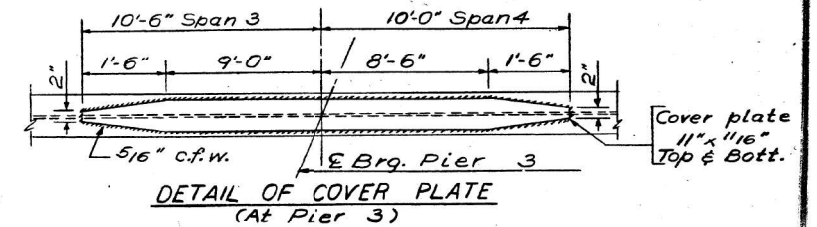
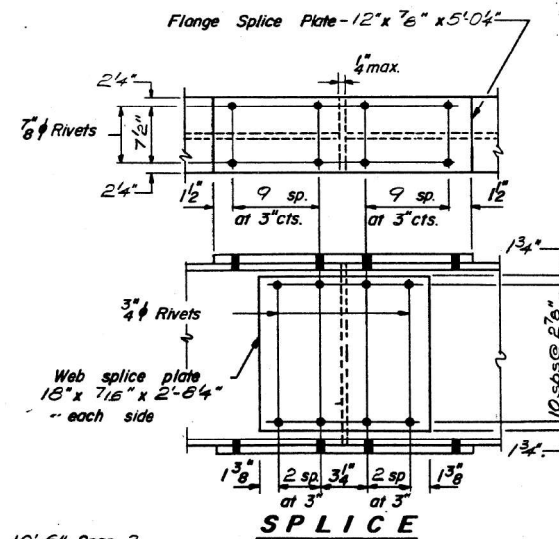
FRAMING PLAN

In lieu of shop rivets, angles may be attached in the shop with 3/4" high strength bolts or 4 c.f.w.



DIAPHRAGM D
8 Required

DIAPHRAGM D1
56 Required



DESIGNED	R.D. PATEL
CHECKED	J. Schneller
DRAWN	J. Schneller
CHECKED	J. Schneller

EXAMINED	Carl E. Johnson	1965
PASSED	J. Schneller	
APPROVED	J. Schneller	

STRUCTURAL STEEL
F.A.I. RT. 70 - SEC 12-54 HB-3
CLARK COUNTY
STA. 545+13.87 (F.A.I.)

USER NAME = Jessica.Hille	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/8/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

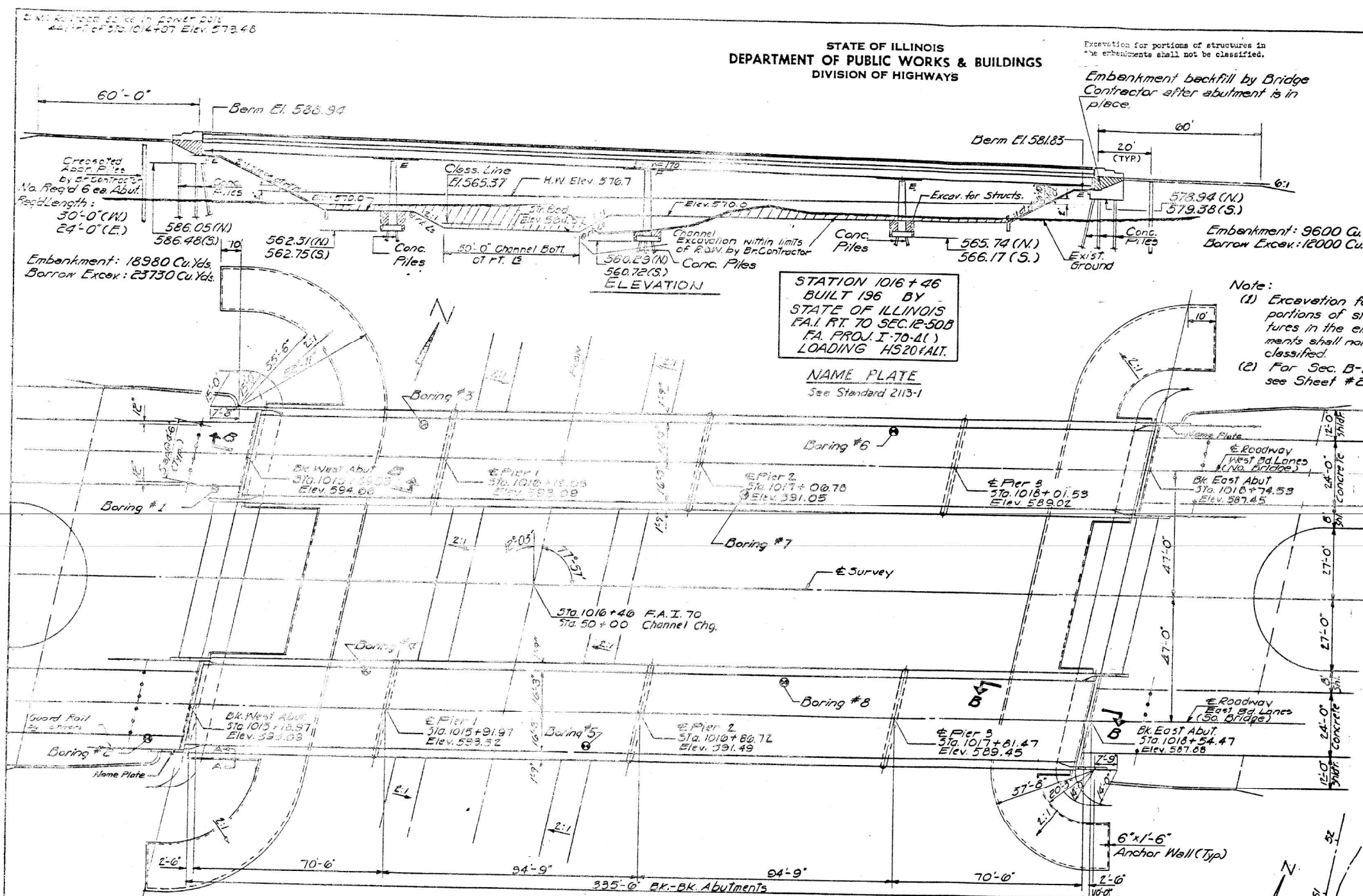
EXISTING STRUCTURE PLANS
SN 012-0047

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	11
CONTRACT NO. 74B54				
ILLINOIS FED. AID PROJECT				

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

DATE	PROJECT	CONTRACT	SHEET NO.	TOTAL SHEETS
12-59	CLARK	25	6	16 SHEETS



GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end post must be free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications.

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 Sq. Ft.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

All structural steel shall conform to A.S.T.M. Designation A-36.

Rivets 3/4" ϕ , Open Holes 1 3/8" ϕ , unless otherwise noted.

Anchor bolts shall be set before fastening diaphragms over supports.

Exposed surfaces of the expansion devices, inaccessible after erection, shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.

Expansion devices are included in the quantity of structural steel. Est. weight = 3750 lbs.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See special provisions for field paint.

Concrete piles of abutments shall be driven in holes precored thru the embankment in accordance with Article 60.9 (c) of the Standard Specifications.

The Contractor shall drive four (4) concrete test piles one each at Pier 3 and E. Abutts. all in permanent locations as directed by the Engineer, before ordering the remaining piles. Permanent forms will not be permitted in forming the concrete floor.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class A Excav for Structs.	Cu. Yds.		510	510
Class B Excav for Structs.	Cu. Yds.		160	160
Class X Concrete	Cu. Yds.	666.7	159.7	826.4
Protective Coat	Sq. Yds.	3030		3030
Structural Steel	Lbs.	820270		820270
Aluminum Handrail	Lin. Ft.	1329		1329
Reinforcement Bars	Lbs.	184200	43100	227300
Creosoted Piles (20'-38')	Lin. Ft.			648
Concrete Piles	Lin. Ft.		6078	6078
Test Piles (Concrete)	Each		4	4
Name Plates	Each	2		2
Slope Wall (6")	Sq. Yds.			2190
Bridge Seat Sealant	Lump Sum			1
Class A Concrete	Cu. Yds.		566.1	566.1

DESIGN STRESSES

$f_c = 1400$ psi (Super. & Sub.)
 $f_s = 20,000$ psi. (Reinf.)
 $f_s = 20,000$ psi. (Struct.)
 $v_c = 75$ psi. (Figs.)
 $n = 10$

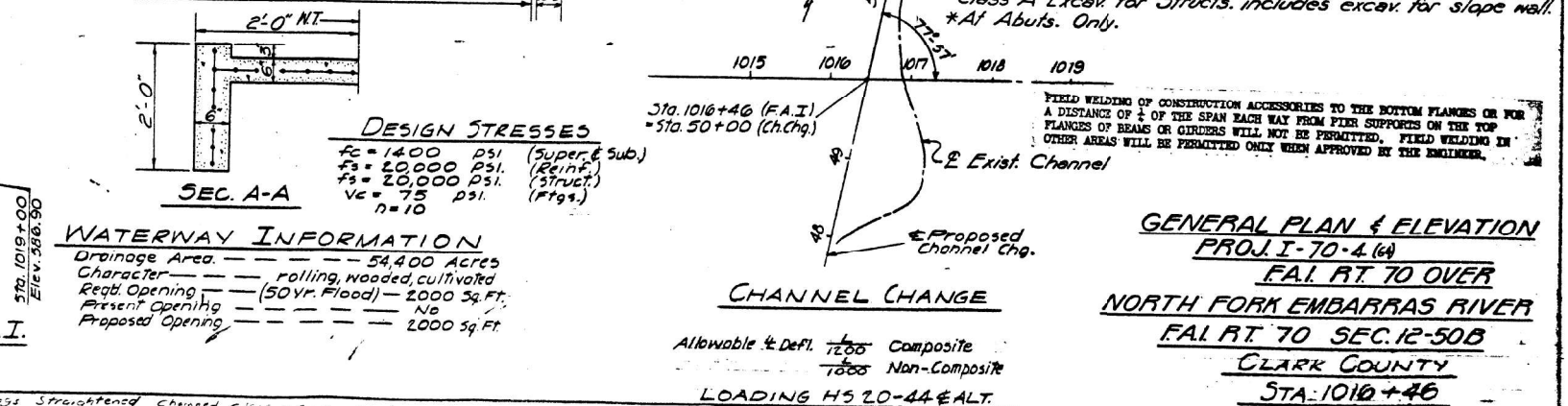
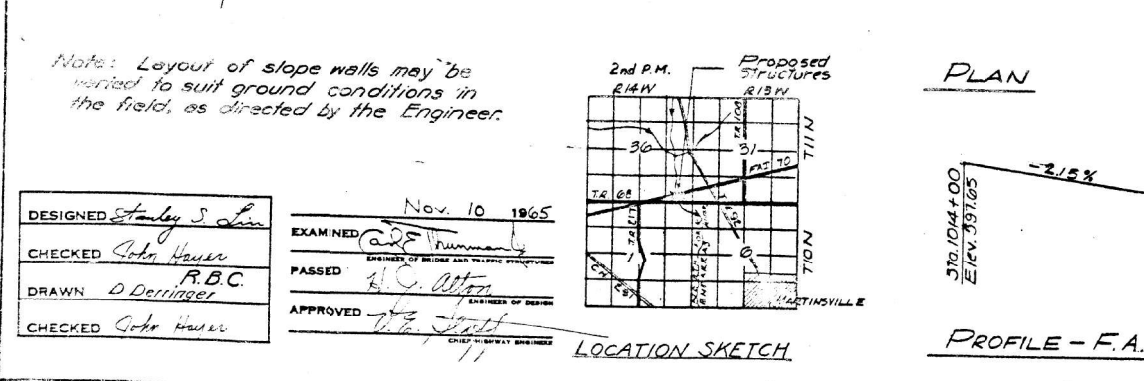
WATERWAY INFORMATION

Drainage Area: 54,400 Acres
 Character: rolling, wooded, cultivated
 Reg'd. Opening (50 Yr. Flood): 2000 Sq. Ft.
 Present Opening: No
 Proposed Opening: 2000 Sq. Ft.

CHANNEL CHANGE

Allowable & Defl. 1/200 Composite
 1/200 Non-Composite

LOADING H5 20-44 EALT.



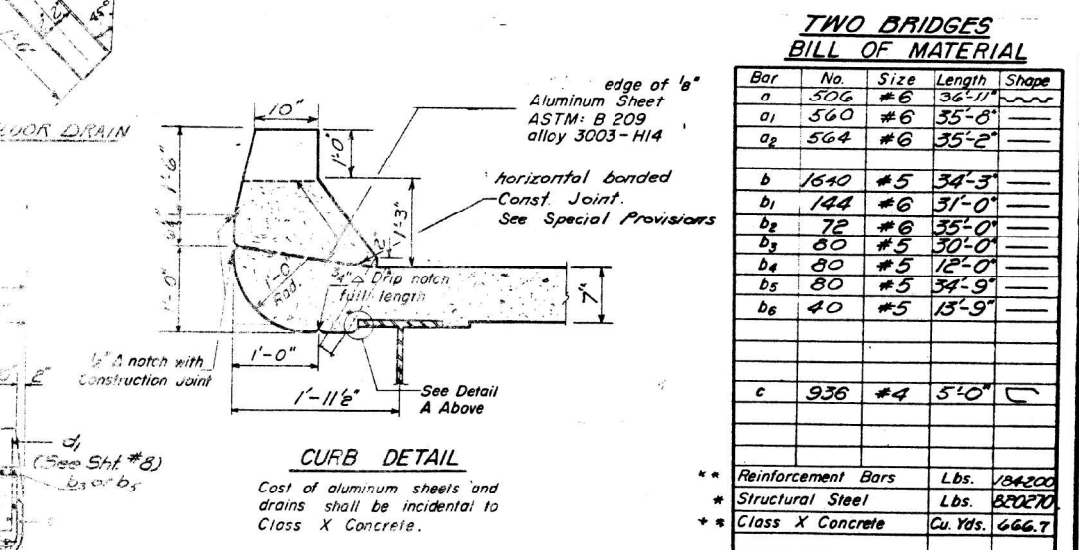
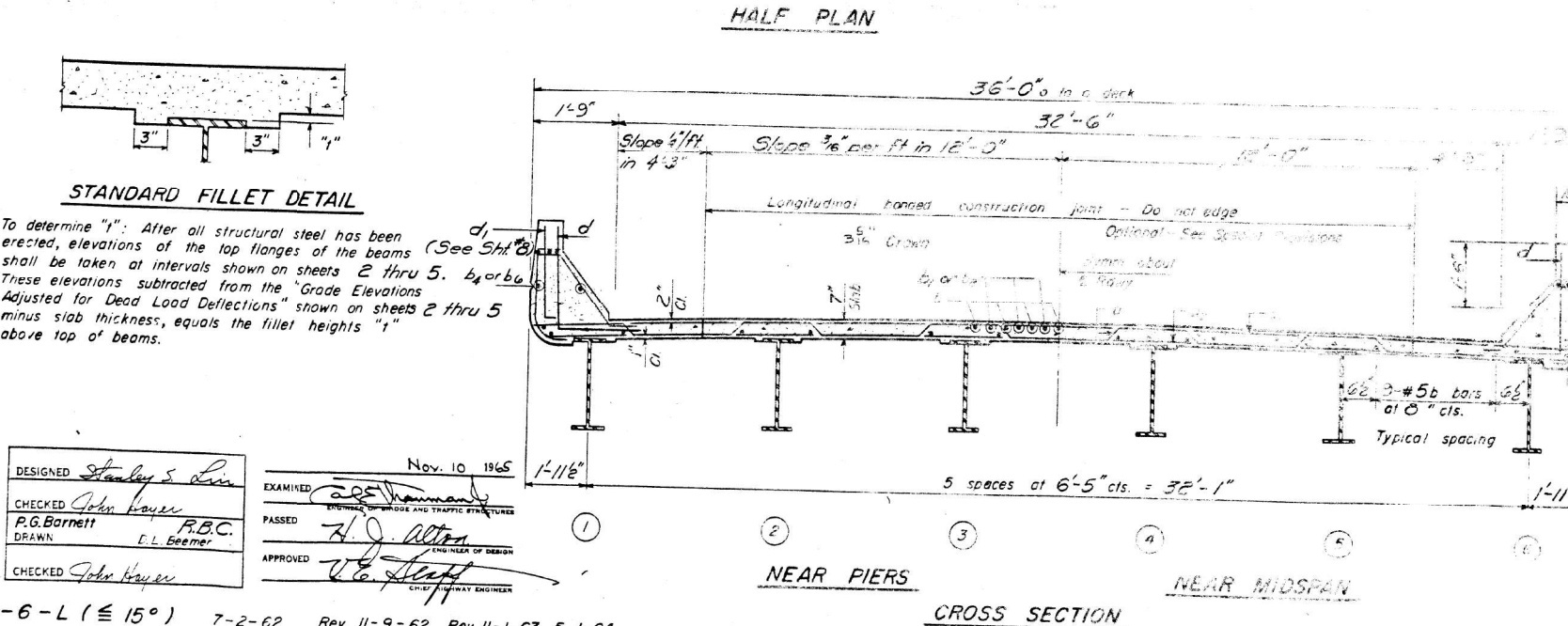
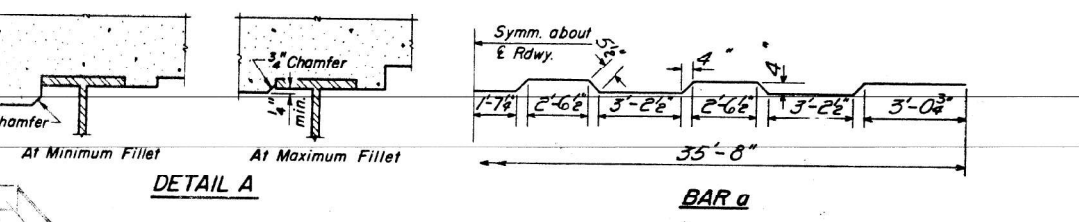
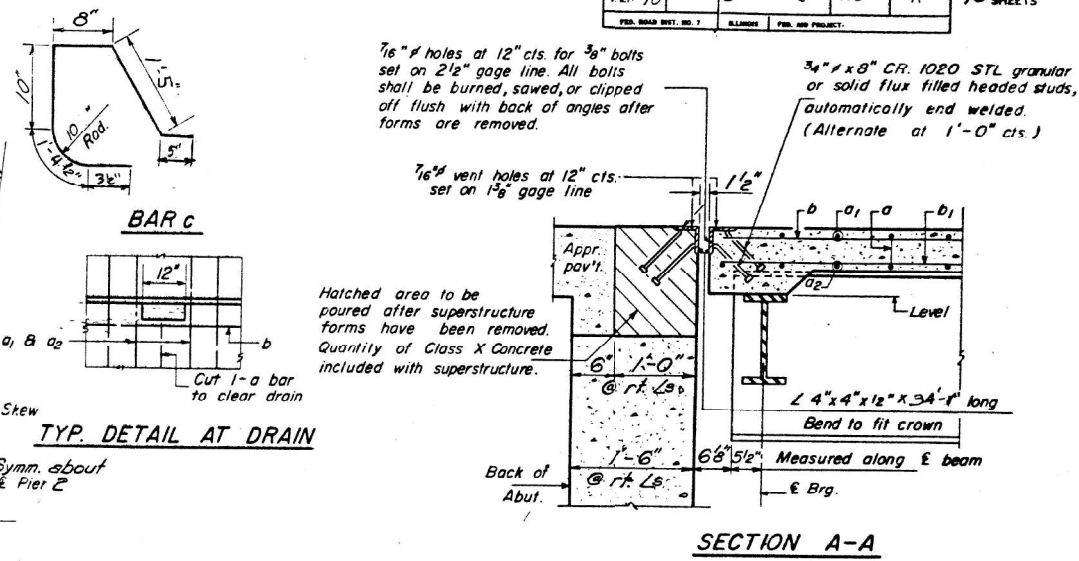
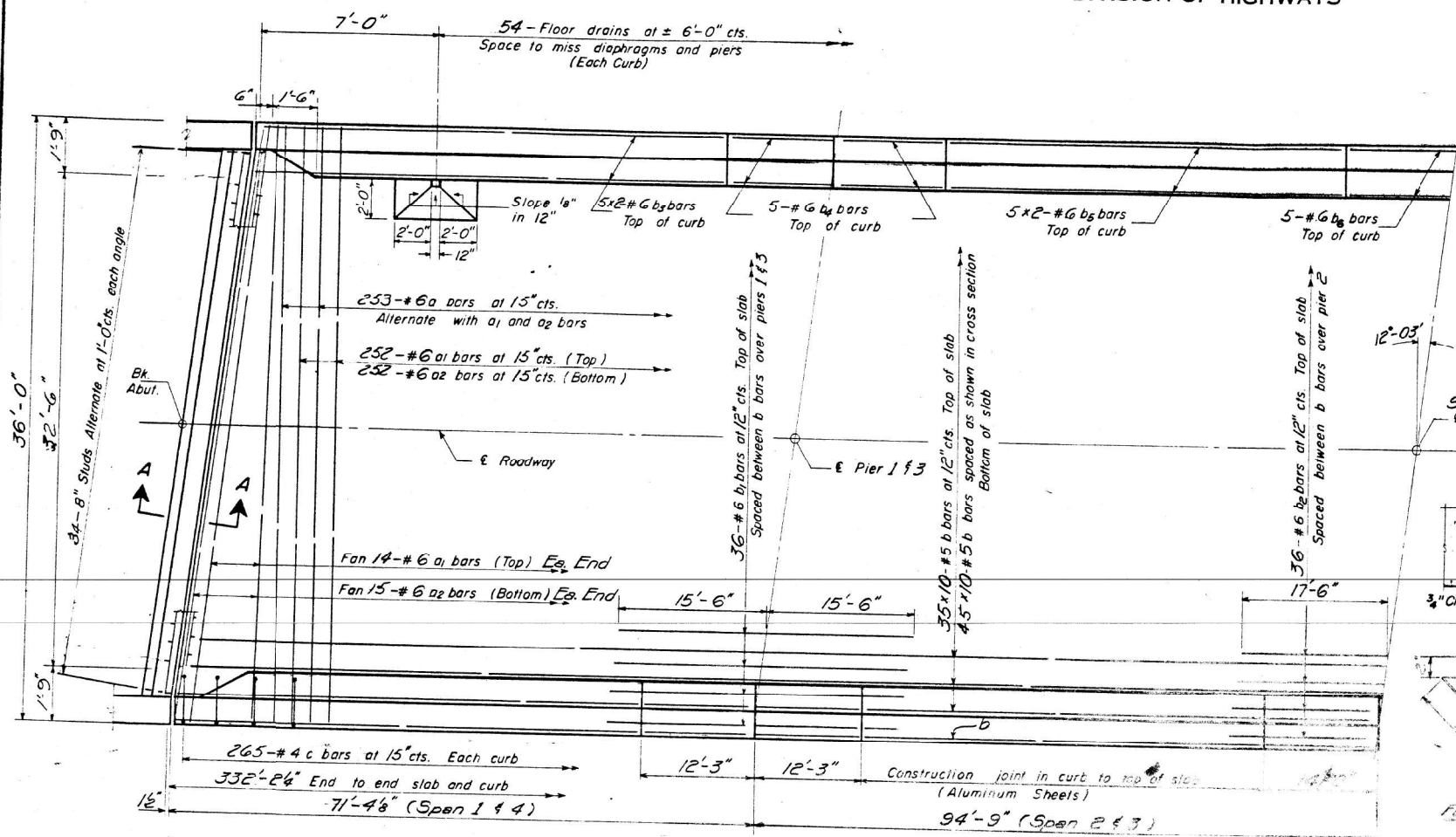
Revised 11-22-65 S.L. - Stream bed elevation and quantities changed
 Rev. 8-18-67 V.P. Hags Straightened changed class X concrete from 8911 to 826.4 cu yds. & Reinforcement from 21000 to 227300 lbs.

USER NAME = Jessica.Hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS SN 012-0050 & 51	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -			VAR. D7 BRIDGE PAINTING 2023-2		ILLINOIS	24	13
PLOT DATE = 2/8/2023	CHECKED -	REVISED -					FED. AID PROJECT		
	DATE -	REVISED -							

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	12-50B	CLARK	25	11
SHEET NO. 6			16 SHEETS	

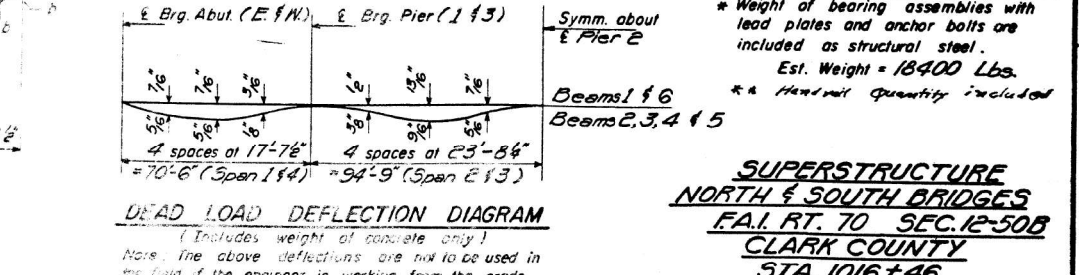
Note:
Bars indicated thus 20 x 3 - # 5 etc. indicates
20 lines of bars with 3 lengths per line
Min. bar laps = 20 dia.



**TWO BRIDGES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	506	#6	36'-11"	
a1	560	#6	35'-8"	
a2	564	#6	35'-2"	
b	1640	#5	34'-3"	
b1	144	#6	31'-0"	
b2	72	#6	35'-0"	
b3	80	#5	30'-0"	
b4	80	#5	12'-0"	
b5	80	#5	34'-9"	
b6	40	#5	13'-9"	
c	936	#4	5'-0"	
Reinforcement Bars		Lbs.	184200	
Structural Steel		Lbs.	820270	
Class X Concrete		Cu. Yds.	666.7	

* Weight of bearing assemblies with lead plates and anchor bolts are included as structural steel.
Est. Weight = 18400 Lbs.
** Handwritten quantity included



**SUPERSTRUCTURE
NORTH & SOUTH BRIDGES
F.A.I. RT. TO SEC. 12-50B
CLARK COUNTY
STA. 1016+46**

STANDARD FILLET DETAIL
To determine "i": After all structural steel has been erected, elevations of the top flanges of the beams (See Sht #8) shall be taken at intervals shown on sheets 2 thru 5. These elevations subtracted from the "Grade Elevations Adjusted for Dead Load Deflections" shown on sheets 2 thru 5 minus slab thickness, equals the fillet heights "i" above top of beams.

DESIGNED: Stanley S. Levin
CHECKED: John Hoyer
P.G. Barnett
DRAWN: E.L. Beemer
NOV 10 1965
EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

I-6-L (≤ 15°) 7-2-62 Rev. 11-9-62 Rev. 11-1-63 5-1-64
Rev. 8-18-67 VP Curb, and changed Class X Concrete From 734-2 to 666.7 Cu. Yds. & 820270 Lbs.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 012-0050 & 51

USER NAME = Jessica.Hille	DESIGNED -	REVISED -	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -	VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	14
PLOT DATE = 2/18/2023	CHECKED -	REVISED -	CONTRACT NO. 74B54				
	DATE -	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.

MODEL: Default FILE: I:\MAIL\p... PROJECT: 74B54\CLARK\DATA\CAD\PROJECTS\74B54-14-11.dwg

ROUTE #	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
FAP 832	11BR	CLARK	20	7

OF 10 SHEETS

BM CHEELED "D" ON NE WING WALL OF BRIDGE
STA. 381+74. ELEV. 578.60

EXISTING STRUCTURE: SN 012-0038, SINGLE 26'-0" BK-BK ABUTMENT SPAN R.C. SLAB BRIDGE WITH CLOSED CONCRETE ABUTMENTS BUILT IN 1928 WITH 39.2 FT HORIZONTAL CLEARANCE.

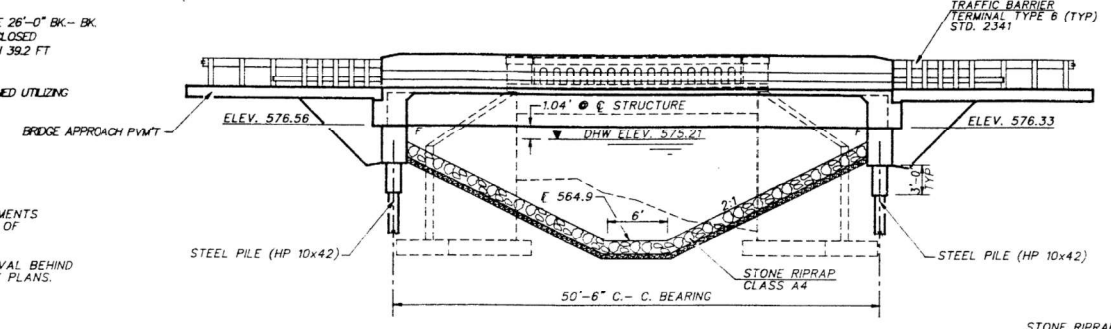
ONE LANE OF TRAFFIC SHALL BE MAINTAINED UTILIZING STAGE CONSTRUCTION.

NO SALVAGE

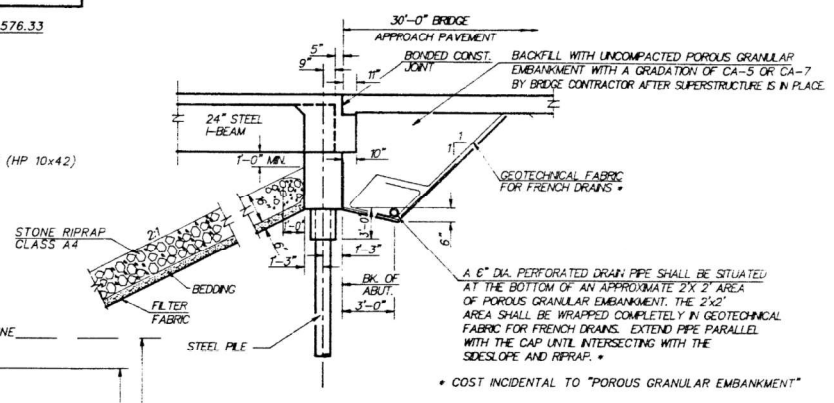
REMOVE EXISTING STRUCTURE TO 1'-2" BELOW BOTTOM OF PROPOSED RIPRAP.

EXCAVATION BEHIND EXISTING ABUTMENTS SHALL BE INCIDENTAL TO REMOVAL OF EXISTING STRUCTURES.

FOR QUANTITY OF PAVEMENT REMOVAL BEHIND EXISTING ABUTMENTS SEE ROADWAY PLANS.



SECTION THRU INTEGRAL ABUTMENT RIPRAP AND DRAIN DETAILS



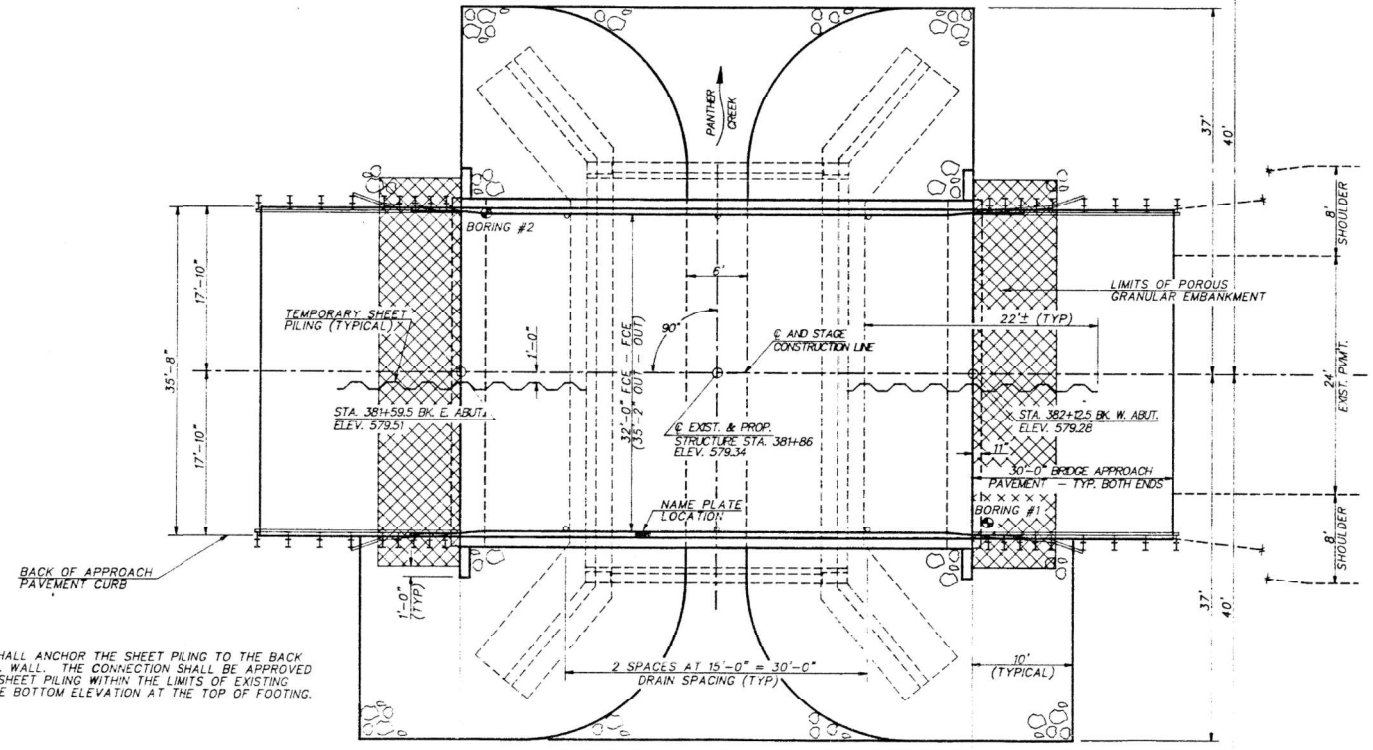
GENERAL NOTES

- CLASS X CONCRETE SHALL BE USED THROUGHOUT.
- CALCULATED WEIGHT OF STRUCTURAL STEEL = 29,330 POUNDS (M223, GR. 50) = 1,050 POUNDS (M183)
- ALL BEAMS SHALL BE AASHTO M223, GR. 50. ALL DIAPHRAGMS SHALL BE AASHTO M183.
- THE ZINC-SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL. THE FINAL COLOR OF THE VINYL FINISH COAT SHALL BE LIGHT GRAY (MUNSELL COLOR STANDARD -10Y7/1) EXCEPT THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS WHICH SHALL BE INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.56 4/8)
- FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
- THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS, ZONE 2. THESE COMPONENTS ARE THE WIDE FLANGE BEAMS.
- FOR CANTILEVER FORMING BRACKETS SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31, M42 OR M53 GRADE 60.
- THE CONTRACTOR SHALL DRIVE ONE STEEL TEST PILE IN A PERMANENT LOCATION AT EAST ABUTMENT, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.
- LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

TOTAL BILL OF MATERIAL

ITEM	UNT	SUPER	SUB	TOTAL
CHANNEL EXCAVATION	CU. YD.			180
POROUS GRANULAR EMBANKMENT	CU. YD.		100	100
REMOVAL OF EXISTING STRUCTURES	EACH			1
STRUCTURE EXCAVATION	CU. YD.		137	137
FLOOR DRAINS	EACH	6		6
• PROTECTIVE COAT	SQ. YD.	43		43
CLASS X CONCRETE SUPERSTRUCTURE	CU. YD.	72.5		72.5
CLASS X CONCRETE	CU. YD.		26.1	26.1
STRUCTURAL STEEL	L. S.	1		1
STUD SHEAR CONNECTORS	EACH	774		774
REINFORCEMENT BARS (EPOXY COATED)	POUND	13970	2560	16530
STEEL PILES HP 10x42	LIN. FT.		418	418
TEST PILE HP 10x42	EACH		1	1
TEMPORARY SHEET PILING	SQ. FT.		750	750
NAME PLATES	EACH	1		1
STONE RIPRAP CLASS A4	SQ. YD.			600
FILTER FABRIC FOR USE WITH RIPRAP	SQ. YD.			600
BRIDGE DECK GROOVING	SQ. YD.	188		188

* QUANTITY IS FOR TOP AND INSIDE SURFACES OF PARAPETS.



STA. 381+86
BUILT 199 BY
STATE OF ILLINOIS
F.A.P. RTE. 832 SEC. 111BR
F.A. PROJ. BR-832(B)
LOADING HS 20-44
STR. NO. 012-0064

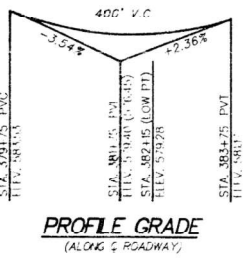
NAME PLATE DETAIL
(SEE STANDARD 213)

THE CONTRACTOR SHALL ANCHOR THE SHEET PILING TO THE BACK OF THE EXIST. ABUT. WALL. THE CONNECTION SHALL BE APPROVED BY THE ENGINEER. SHEET PILING WITHIN THE LIMITS OF EXISTING FOOTING SHALL HAVE BOTTOM ELEVATION AT THE TOP OF FOOTING.

WATERWAY INFORMATION

DRAINAGE AREA = 3.32 SQ. MI. LOW GRADE ELEV. 579.28 AT STATION 382+15

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD - FOOT		HEADWATER E.L.	
			EXISTING	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIG.	50	1008	164	247	575.2'	34	05	575.55	575.23
BASE	100	183	166	283	575.42	46	05	575.88	575.47
OVERTOPPING									
MAX. CALC.	500	1497	170	264	575.84	80	15	576.64	575.06



DESIGN SPECIFICATIONS
1989 AASHTO 1990 & 1991 INTERM SPECIFICATIONS

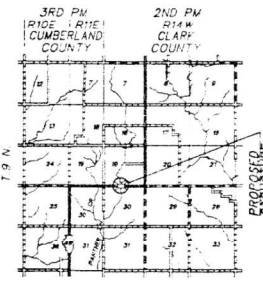
LOADING HS 20-44
ALLOW 25# / SQ. FT. FOR FUTURE WEARING SURFACE

DESIGN STRESSES
FIELD UNITS:
f_c = 3,500 P.S.I.
f_y = 60,000 P.S.I. (REINFORCEMENT)
f_y = 50,000 P.S.I. (STEEL BEAMS)
f_v = 36,000 P.S.I.

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

ROBERT L. MCCLINTOCK
81-3137
LICENSED
STRUCTURAL
ENGINEER
PARIS
STATE OF ILL. NO.

Robert L. McClintock DATE: 8-11-92
Robert L. McClintock
LICENSE EXPIRES 11-30-92
S.E. #3137

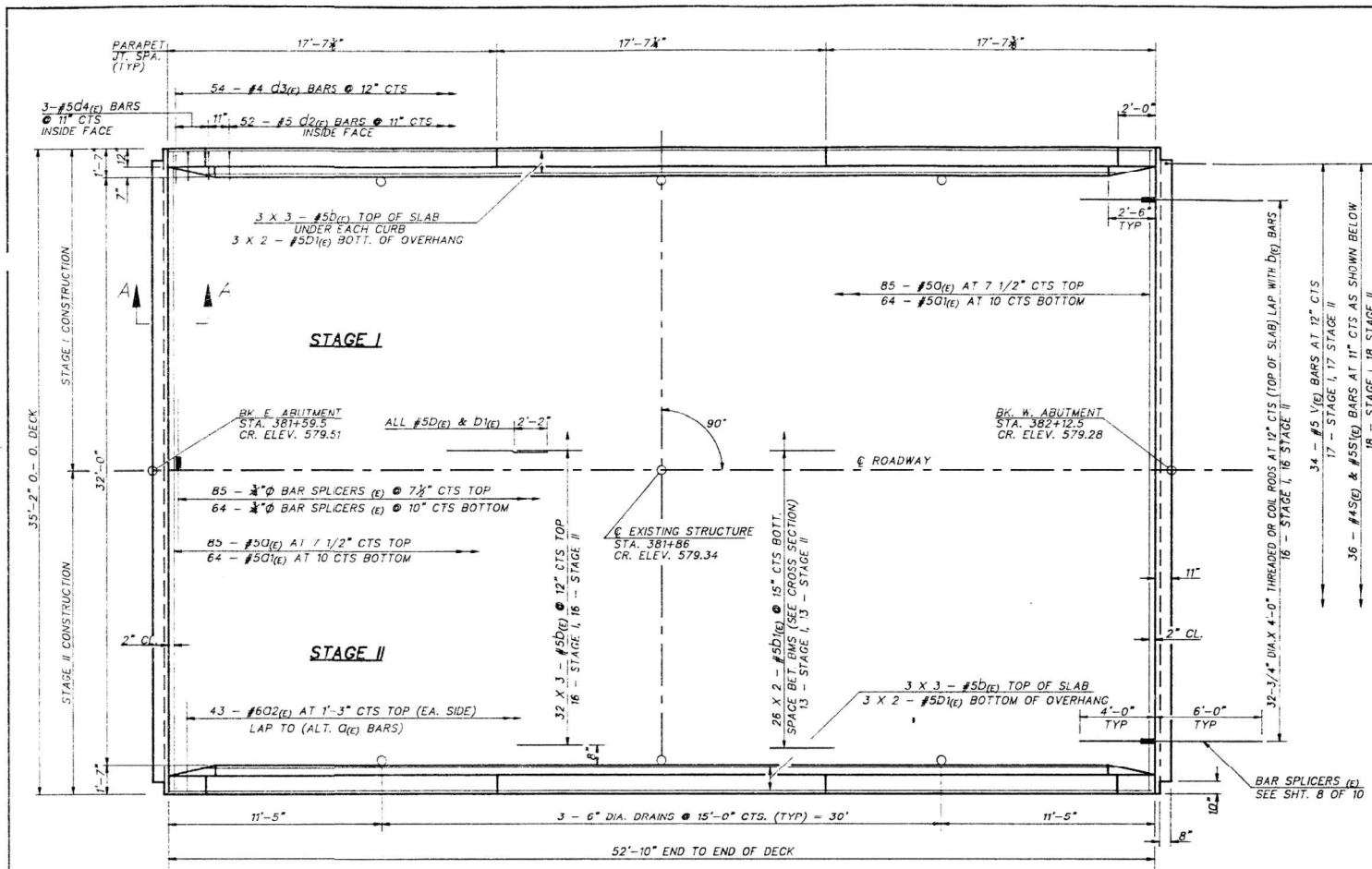


GENERAL PLAN AND ELEVATION
ILL. ROUTE 49 OVER
PANTHER CREEK
F.A.P. ROUTE 832 SECTION 11BR
STA. 381+86
CLARK COUNTY
STRUCTURE NUMBER 012-0064

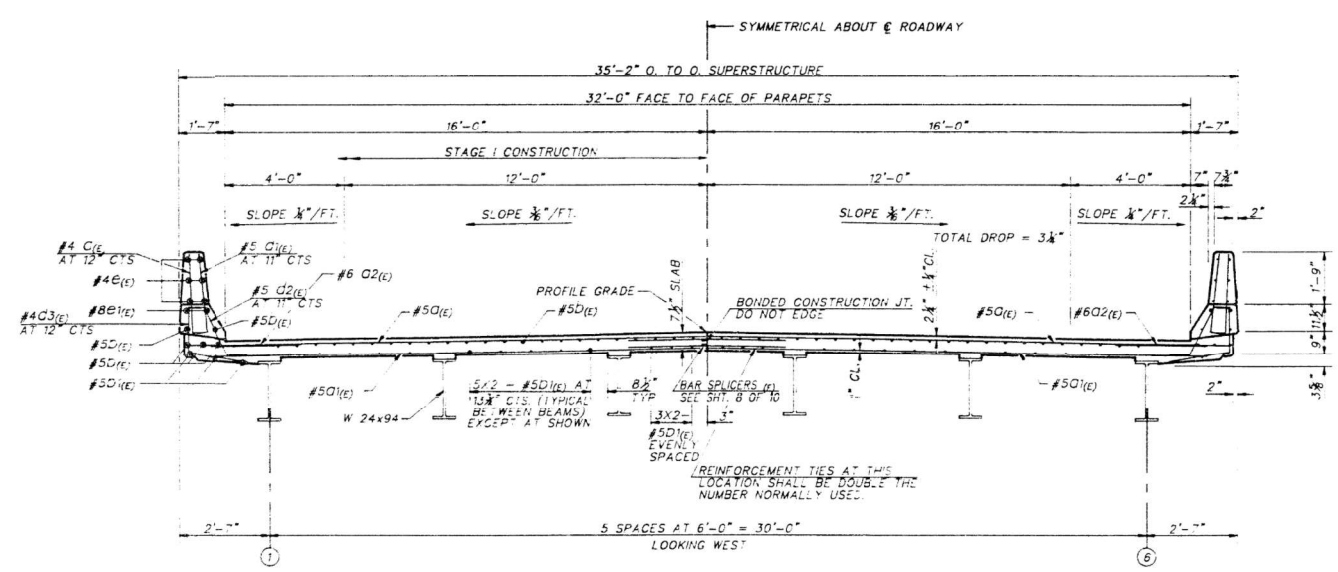
McCLINTOCK
CIVIL ENGINEERING SERVICE
700 SPRINGFIELD, ILL. 61844
PHONE (217) 466-6711

ROUTE #	SECTION	COUNTY	TOTAL SHEETS	SHEET #
FAP 832	11BR	CLARK	20	10

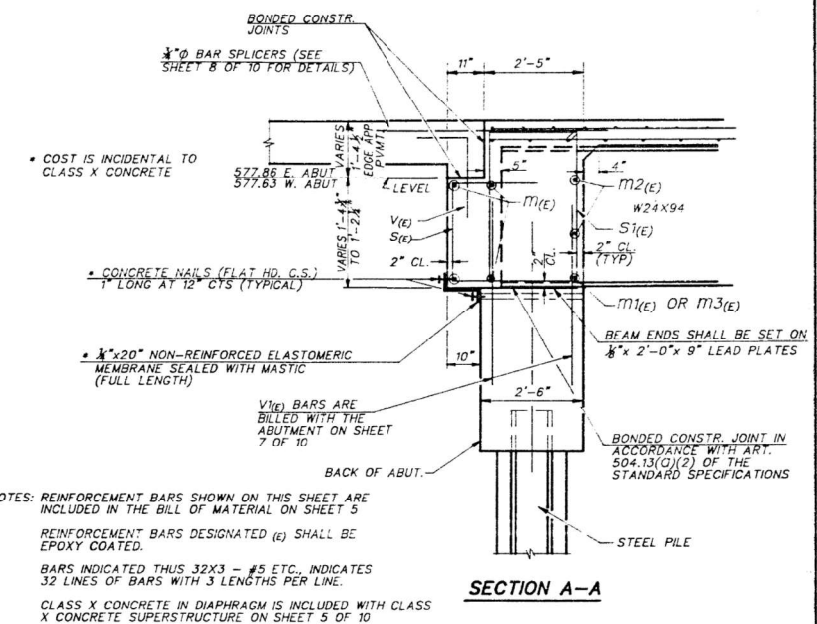
SHEET NO. 4
OF 10 SHEETS



PLAN

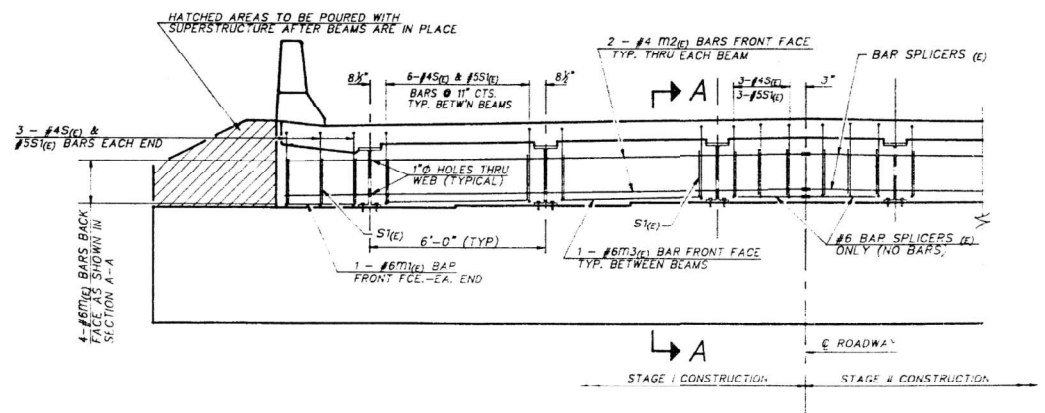


CROSS SECTION



SECTION A-A

MIN. BAR LAPS
#5 BAR 2'-2"
#4 BAR 1'-1"



DIAPHRAGM AT WEST ABUTMENT

**SUPERSTRUCTURE
ILL. ROUTE 49 OVER
PANTHER CREEK
F.A.P. ROUTE 832 SECTION 11BR
STA. 381+86
CLARK COUNTY
STRUCTURE NUMBER 012-0064**

McCLINTOCK
CIVIL ENGINEERING SERVICE
700 SPRINGFIELD PARK, L. 6944
PHONE (202) 466-6762

USER NAME = Matthew.Bower	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/10/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

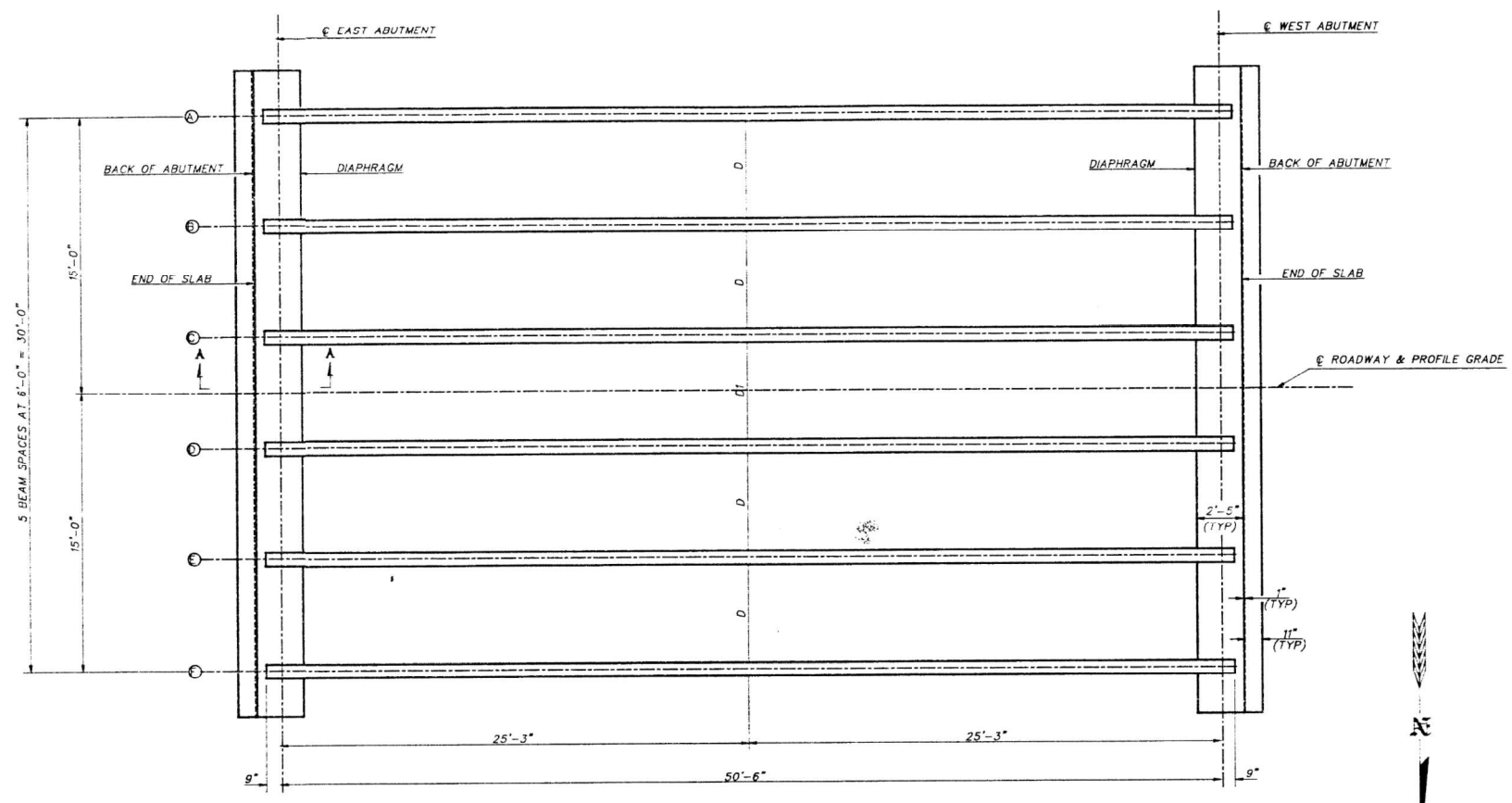
**EXISTING STRUCTURE PLANS
SN 012-0064**

SCALE: SHEET OF SHEETS STA. TO STA.

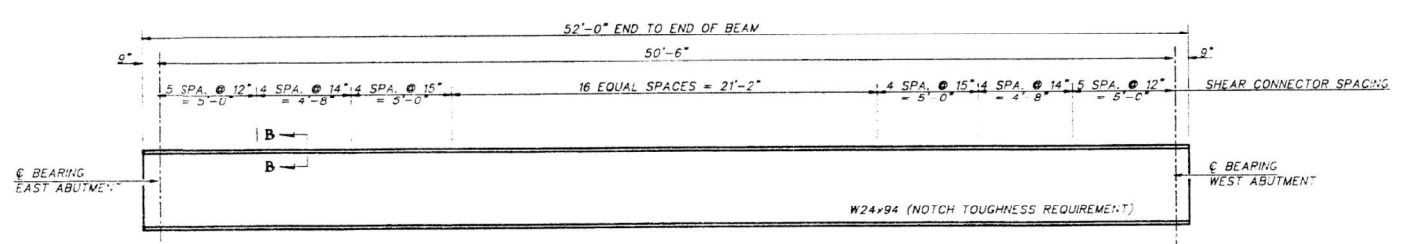
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	17
			CONTRACT NO. 74B54	
ILLINOIS FED. AID PROJECT				

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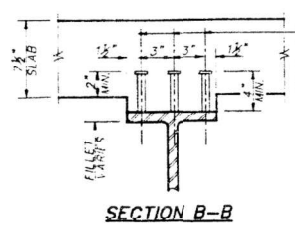
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FAP 832	111BR	CLARK	20	12	OF 10 SHEETS



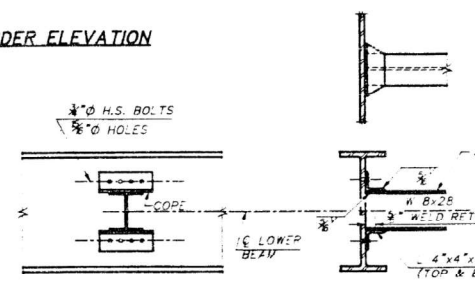
FRAMING PLAN



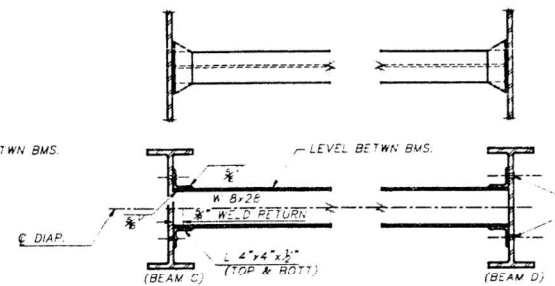
GIRDER ELEVATION



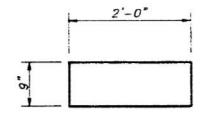
SECTION B-B



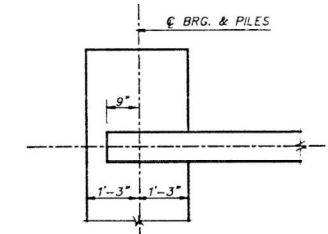
DIAPHRAGM D



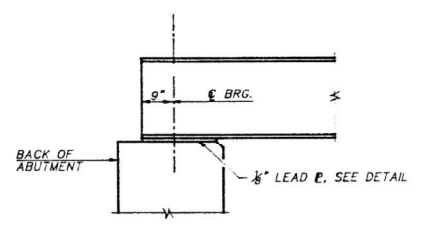
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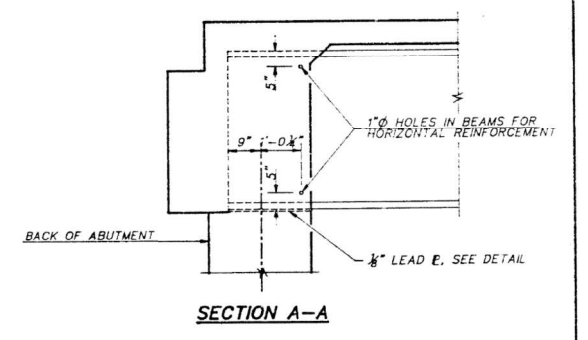
LEAD PLATE



PLAN AT ABUTS.



SECTION AT ABUTS.



SECTION A-A

INTERIOR BEAM REACTION TABLE

	ABUTS.
R @ N.C. + R @ C. (K)	23.7
R L (K)	35.9
R IMP (K)	10.2
R TOTAL (K)	69.8

INTERIOR BEAM MOMENT TABLE

	0.5 SPAN
I_s	(IN ⁴) 2700
$I_c L$	(IN ⁴) 7775
S_e	(IN ³) 222
$S_c L$	(IN ³) 304.5
$M @ N.C.$	(K/FT) 0.670
$M @ N.C.$	(K) 213.11
$M @ C.$	(K/FT) 0.269
$M @ C.$	(K) 86.08
$M L$	(K) 347.36
$M IMP$	(K) 98.96
$S/3(M L + I)$	(K) 74.4
M_c	(K) 135.3
M_u	(K) 2050
$F_s @ N.C.$	(KSI) 11.52
$F_s @ C.$	(KSI) 3.39
$F_s(5/3(L + I))$	(KSI) 26.45
$F_s(OVERLOAD)$	(KSI) 47.36
V^*	(K) 41.6

I_s AND S_e ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING $F_s(OVERLOAD)$.
 I_c AND S_c ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTIONS USED IN COMPUTING $F_s(OVERLOAD)$.
 V_s IS THE MAXIMUM (L+) SHEAR RANGE IN THE SPAN.
 $F_s(OVERLOAD)$ IS THE SUM OF THE STRESSES DUE TO M @ N.C. + M @ C. + S/3(M L + I).
 $M @$ (APPLIED MOMENT) = 1.3(M @ N.C. + M @ C. + S/3(M L + I)).
 M_u = FULL PLASTIC MOMENT CAPACITY FOR COMPACT, BRACED SECTION. THE FULLY PLASTIC MOMENT CAPACITY (M_u) IS COMPUTED ACCORDING TO AASHTO 10.4.6.1 & 10.50.1.1.
M @ N.C. - MOMENT DUE TO DEAD LOADS ON NON-COMPOSITE SECTION.
M @ C. - MOMENT DUE TO DEAD LOADS ON COMPOSITE SECTION.
M L - MOMENT DUE TO LIVE LOAD ON COMPOSITE SECTION.
I - LIVE LOAD IMPACT.

STRUCTURAL STEEL DIAPHRAGM DETAIL
 ILL. ROUTE 49 OVER
 PANTHER CREEK
 F.A.P. ROUTE 832 SECTION 111BR
 STA. 381+86
 CLARK COUNTY
 STRUCTURE NUMBER 012-0064

McCLINTOCK
 CIVIL ENGINEERING SERVICE
 700 SPRINGFIELD, ILL. 62444
 PHONE (217) 466-6100

USER NAME = Matthew.Bower	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/10/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 012-0064

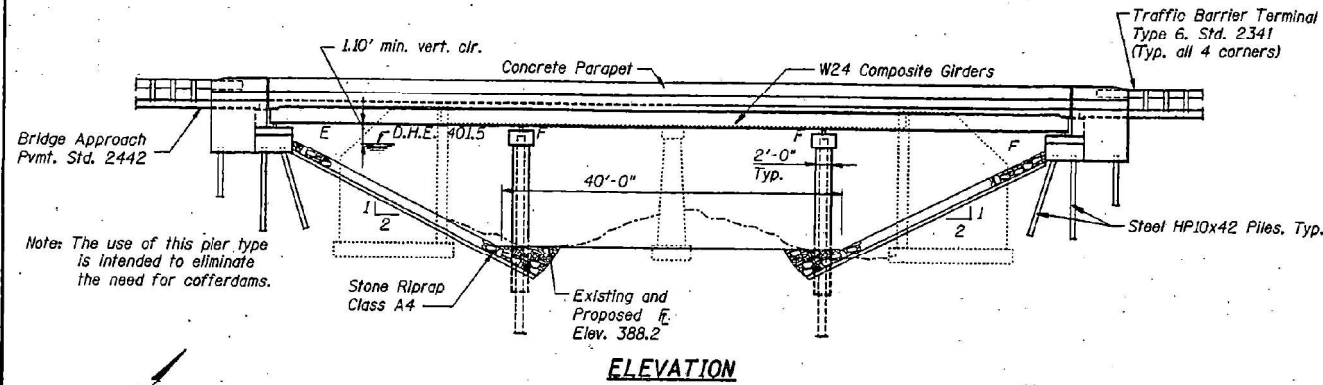
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	18
			CONTRACT NO. 74B54	
ILLINOIS FED. AID PROJECT				

BENCHMARK
Chiseled "C" on southwest wing of existing structure. Elev. 405.00.
EXISTING STRUCTURE DESCRIPTION
SN 093-0004
Existing structure is a two span slab deck bridge 60'-6" long back to back to back of the abutments and 43' wide with closed abutments and a concrete pier, built in 1934. Remove the existing structure. No Salvage. Traffic shall be maintained utilizing stage construction.

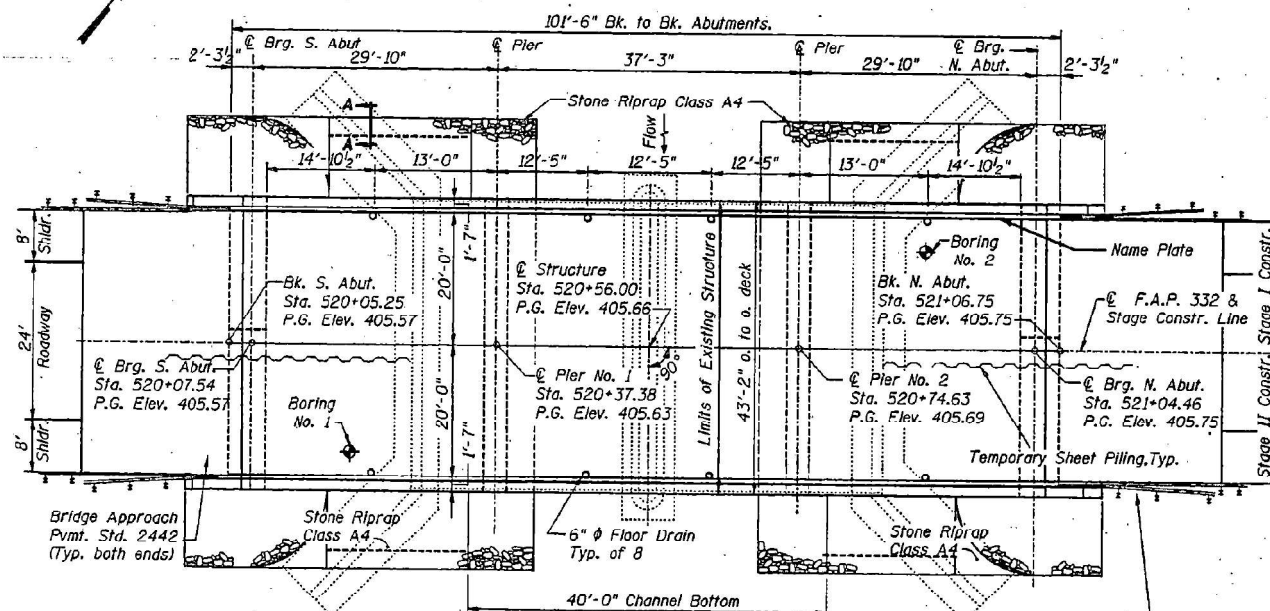
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	QUANTITY	UNIT	PRICE	SHEET NO.
F.A.P. RT. 332		Wabash	43	8	21
TOTAL BILL OF MATERIAL					(102)BR

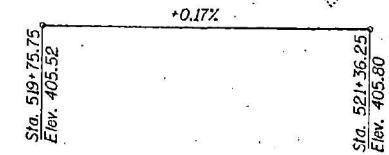


Note: The use of this pier type is intended to eliminate the need for cofferdams.

ELEVATION



PLAN



PROFILE GRADE F.A.P. Rte. 332
F.A.P. Rte. 332

DESIGNED	K.E. Brandau
CHECKED	R.E. Stanley
DRAWN	R.E. Stanley
CHECKED	K.E. Brandau

SEISMIC DATA
S.P.C. B
A = 0.095
S = 15

DESIGN STRESSES
f_c = 3,500 psi
f_y = 60,000 psi (Reinf.)
f_y = 36,000 psi (Struct.) (M270 Grade 36)

DESIGN SPECIFICATIONS
AASHTO (1992) and
Applicable Interims (1993 and 1994)

DESIGN LOADING
HS 20-44 and Allowance for
25 P.S.F. Future Wearing Surface

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Keith E. Brandau
Engineer in Charge and Structures

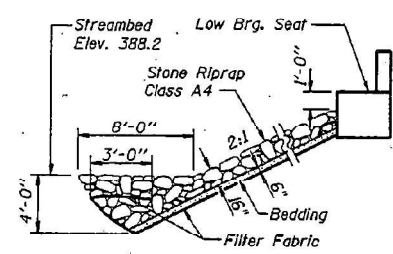


ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Bridge Deck Grooving	Sq. Yd.	424		424
Concrete Superstructure	Cu. Yd.	121.7		121.7
Concrete Structures	Cu. Yd.	167.5		167.5
Reinforcement Bars, Epoxy Coated	Pound	32,670	13,100	45,770
Protective Coat	Sq. Yd.	97		97
Name Plates	Each	1		1
Floor Drains	Each	8		8
Furnish Steel Piles HP10x42	Foot		2960	2960
Test Pile Steel HP10x42	Each	2		2
Driving Steel Piles	Foot		2960	2960
Furnish and Erect Structural Steel	L. Sum	1		1
Bar Splacers	Each	98		440
Structure Excavation	Cu. Yd.		267.6	267.6
Preformed Joint Seal, 1 1/4"	Foot	40		40
Preformed Joint Seal, 2"	Foot	40		40
Elastomeric Bearing Assembly, Type I	Each	6		6
Stone Rip Rap, Class A4	Sq. Yd.	603		603
Temporary Sheet Piling	Sq. Ft.	1,505		1,505
Stud Shear Connectors	Each	1,764		1,764
Bridge Seat Sealer	Sq. Ft.	238		238
Filter Fabric For Use With Riprap	Sq. Yd.	603		603
Channel Excavation	Cu. Yd.	843		843
Structural Excavation Protection for Pile Bents	Each		2	2

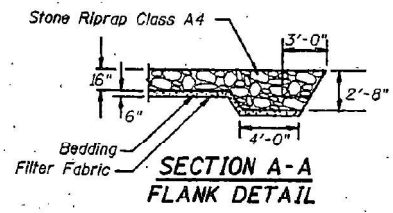
* See Special Provisions.
** Quantity is for inside and top surface of parapet only.

STATION 520+56
BUILT 199 BY
STATE OF ILLINOIS
F.A.P. RT. 332 SEC. (102)BR
F.A. PROJ. NHF-332(28)
LOADING HS20
STR. NO. 093-0020

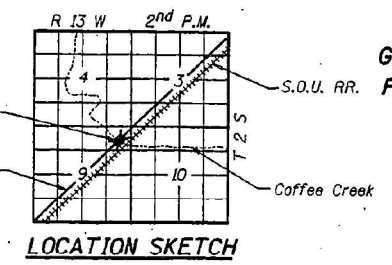
NAME PLATE
Sec Std. 2113



STONE RIPRAP ANCHOR DETAIL



SECTION A-A FLANK DETAIL



LOCATION SKETCH

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 3/4" ϕ , open holes 1/8" ϕ , unless otherwise noted.
Calculated weight of M270 Gr. 36 Structural Steel = 52,507 lbs.
The Inorganic Zinc rich primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5GH8. See Special Provisions for "Cleaning and Painting Metal Structures."
Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.
Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
Bearing seat surfaces shall be constructed or adjusted to the elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, shims of the dimensions of the top plate shall be provided and placed as detailed.
The Contractor shall drive 1 HP10x42 test pile in a permanent location at both the North abutment and Pier No. 1 as directed by the Engineer before ordering the remainder of the piles.
Bridge Seat Sealer shall be applied to the seat area of the North and South Abutments.
In addition to all other requirements of section 512 of the Standard specifications, splices for HP10x42 piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.

WATERWAY INFORMATION

Drainage Area = 17.6 Sq. Mi		Low Grade Elev. = 405.47 @ Sta. 521+00.00				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Not. H.W.E.	Head-Ft.	Headwater EL.
Design	50	2820	624	330	401.5	401.6
Base	100	3210	647	867	401.9	402.0
Overtopping						
Max. Calc.	500	4140	703	932	402.9	403.2

GENERAL PLAN AND ELEVATION
F.A.P. ROUTE 332 (IL ROUTE 1)
OVER COFFEE CREEK
SECTION (102)BR
WABASH COUNTY
STRUCTURE NO. 093-0020
STATION 520+56

MODEL: Default
FILE: 74854.dwg
PLOT DATE: 2/8/2023

USER NAME = Jessica.Hille	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/8/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

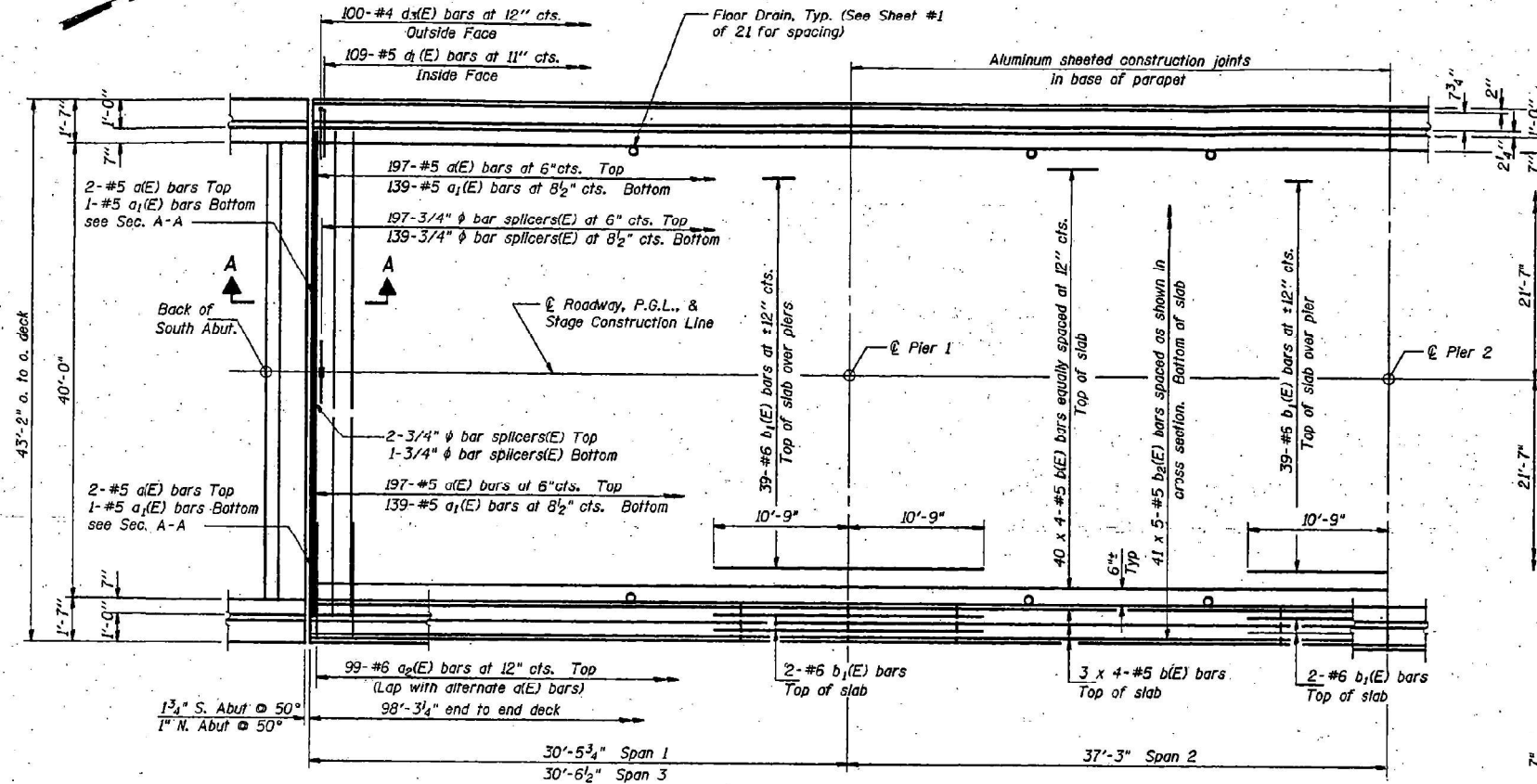
EXISTING STRUCTURE PLANS
SN 093-0020

SCALE: SHEET OF SHEETS STA. TO STA.

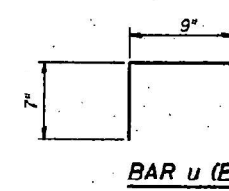
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	19
CONTRACT NO. 74854				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

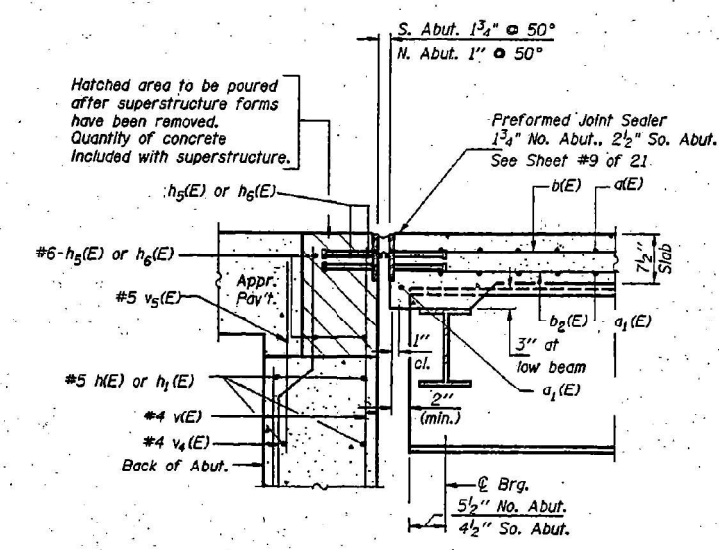
PROJECT NO.	SECTION	COUNTY	SHEET	DATE	SHEET NO.
332		Wabash	43	14	7
SHEETS 21					
* (02)BR					



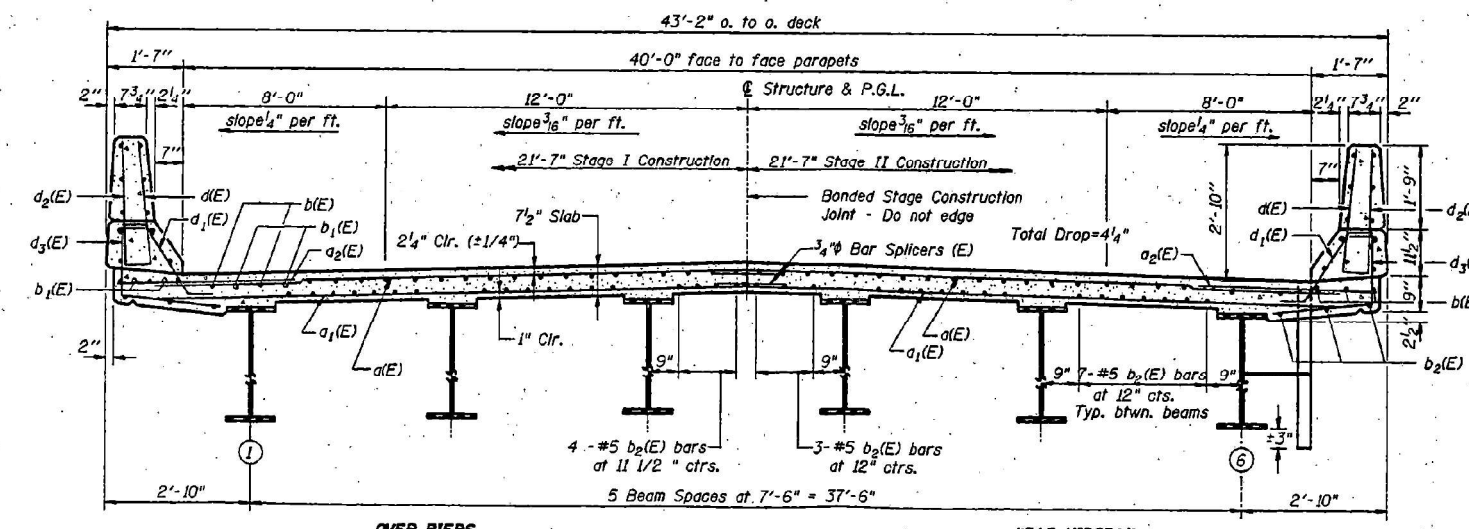
HALF PLAN



BAR u (E)



SECTION A-A



CROSS SECTION
(Looking North)

Notes: See Sheet #8 of 21 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet #8 of 21 for parapet reinforcement.
See Sheet #4 of 21 for Bar Splicer Details.

DESIGNED	K.E. Brandau
CHECKED	R.E. Stanley
DRAWN	R.E. Stanley
CHECKED	K.E. Brandau

S-1-LK15° 12-31-87

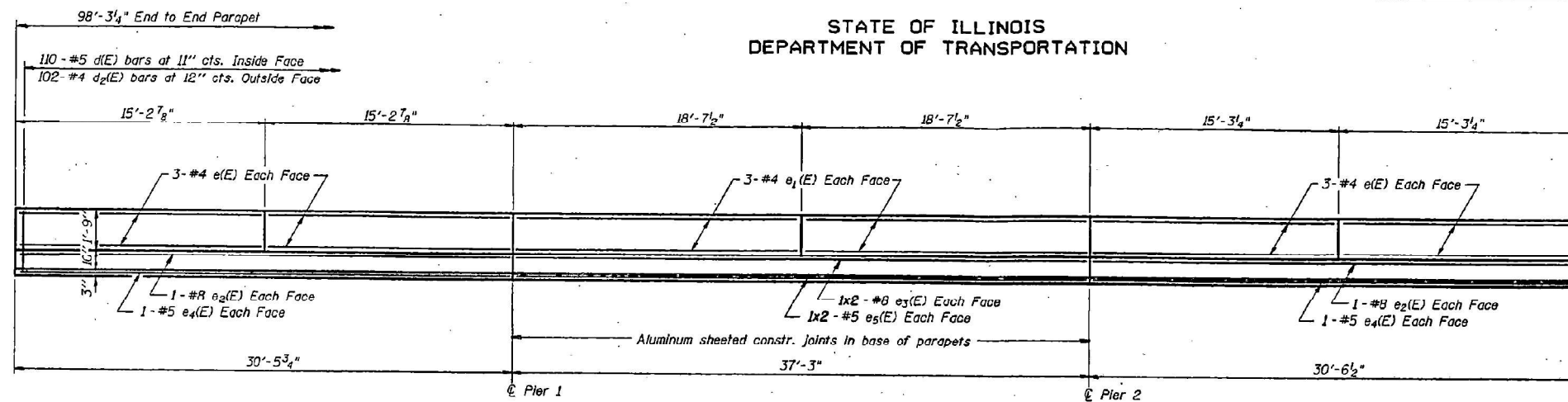
SUPERSTRUCTURE
F.A.P. ROUTE 332 (IL ROUTE 1)
OVER COFFEE CREEK
SECTION (102) BR
WABASH COUNTY
STRUCTURE NO. 093-0020
STATION 520+56

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 PLOT DATE = 2/8/2023

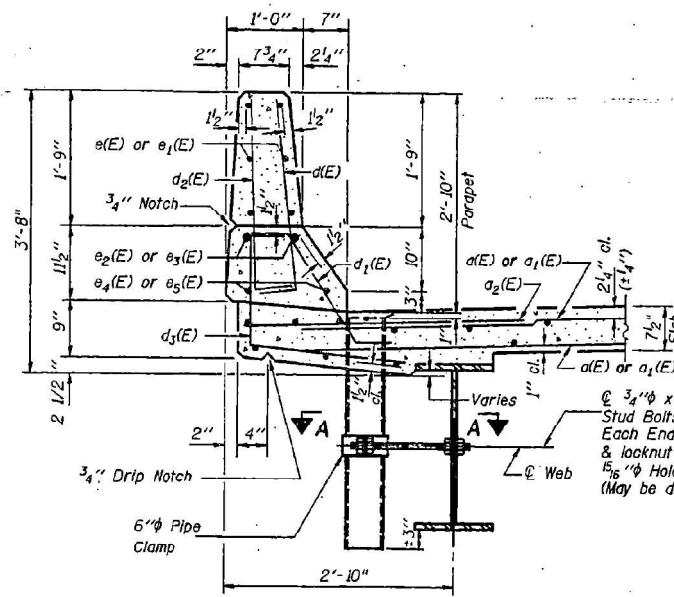
USER NAME = Jessica.Hille	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		EXISTING STRUCTURE PLANS SN 093-0020		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -					VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	20
PLOT DATE = 2/8/2023	CHECKED -	REVISED -					CONTRACT NO. 74854				
	DATE -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	STA.	SHEET NO.
F.A.P. 332		Wabash	43	15
SHEETS 21				
*1021BR				
**F-332(L)				



INSIDE ELEVATION OF PARAPET
(Looking East)



SECTION THRU PARAPET

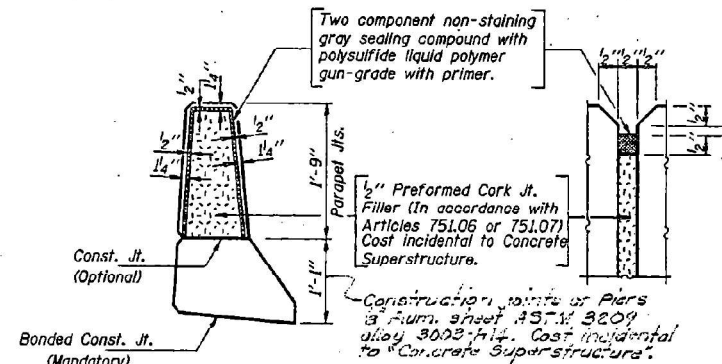
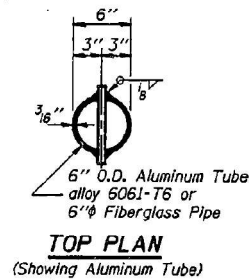
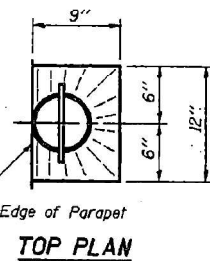
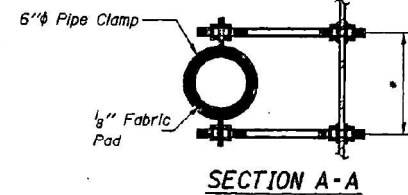
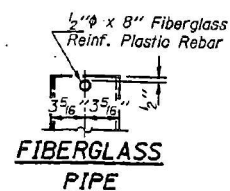
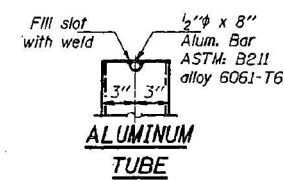
Notes:

The exterior surfaces of the Floor Drain shall be painted with the finish coat of the paint system specified for Structural Steel. The exterior surfaces of the drain shall be cleaned and given a washcoat pretreatment in accordance with Steel Structures Painting Council's Spec. SSPC-SPI & SSPC-Paint 27 prior to painting.

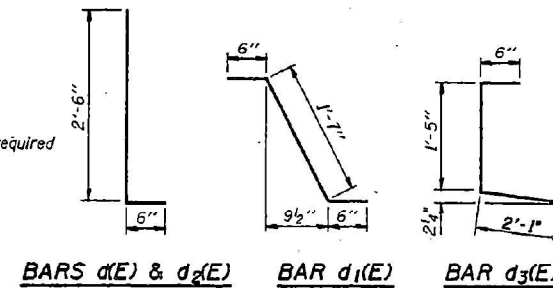
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.

DESIGNED	K.E. Brandau
CHECKED	R.E. Stanley
DRAWN	R.E. Stanley
CHECKED	K.E. Brandau

S-I-D 2-26-93



PARAPET JOINT DETAILS



SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1(E)	402	#5	20'-6"	—
d2(E)	282	#5	20'-6"	—
d3(E)	198	#6	4'-0"	—
b1(E)	184	#5	26'-2"	—
b2(E)	86	#6	21'-6"	—
b3(E)	205	#5	21'-4"	—
d(E)	220	#5	3'-0"	—
d1(E)	218	#5	2'-7"	—
d2(E)	204	#4	3'-0"	—
d3(E)	200	#4	4'-0"	—
e(E)	48	#4	14'-10"	—
e1(E)	24	#4	18'-4"	—
e2(E)	8	#8	30'-2"	—
e3(E)	8	#8	20'-9"	—
e4(E)	8	#5	30'-2"	—
e5(E)	8	#5	19'-7"	—
Reinforcement Bars, Epoxy Coated	Lbs.	32,670		
Concrete Superstructure	Cu. Yds.	121.7		

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 3-#5 etc. indicates 1 line of bars with 3 lengths per line.
Minimum Lap #5 bar - 2'-2"
#8 bar - 4'-6"

SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 332 (IL ROUTE 1)
COFFEE CREEK
SECTION 1021BR
WABASH COUNTY
STRUCTURE NO. 093-0020
STATION 520+56

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

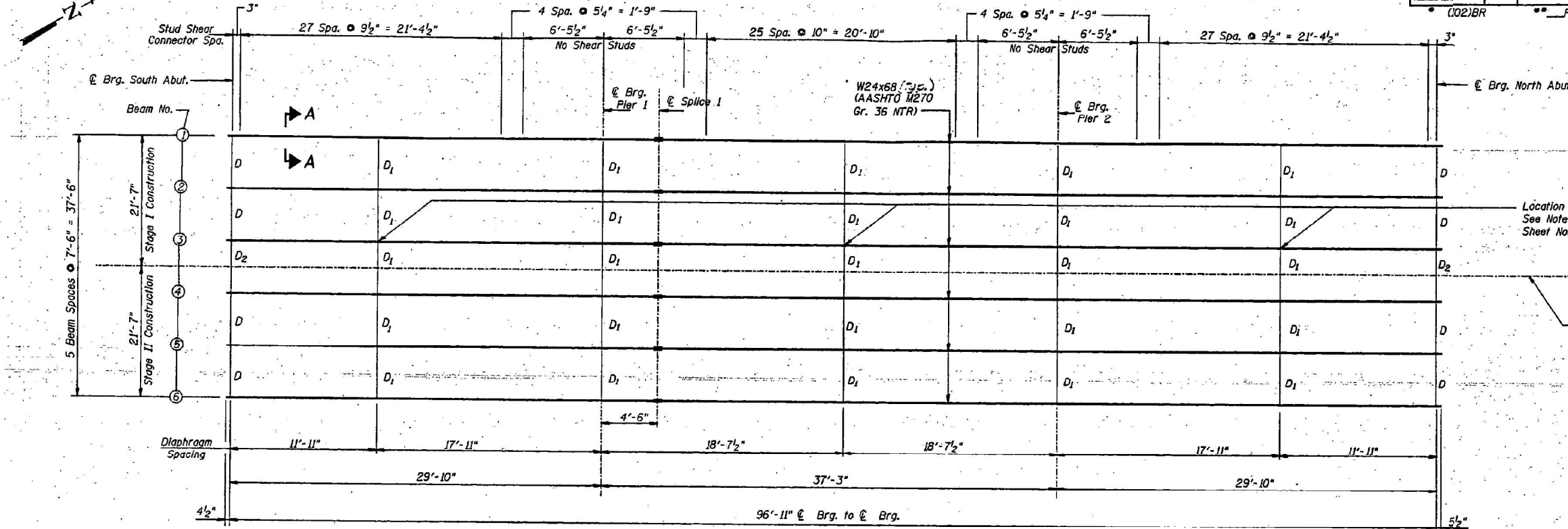
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/18/2023	DATE -	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	21
CONTRACT NO. 74B54				
ILLINOIS FED. AID PROJECT				

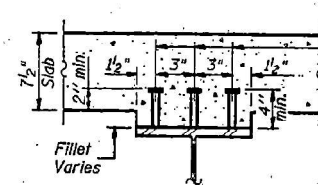
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 10
P.A.P. 332		Wabash	43	17	SHEETS 21
PROJECT DESCRIPTION					
(102)BR					F-332()



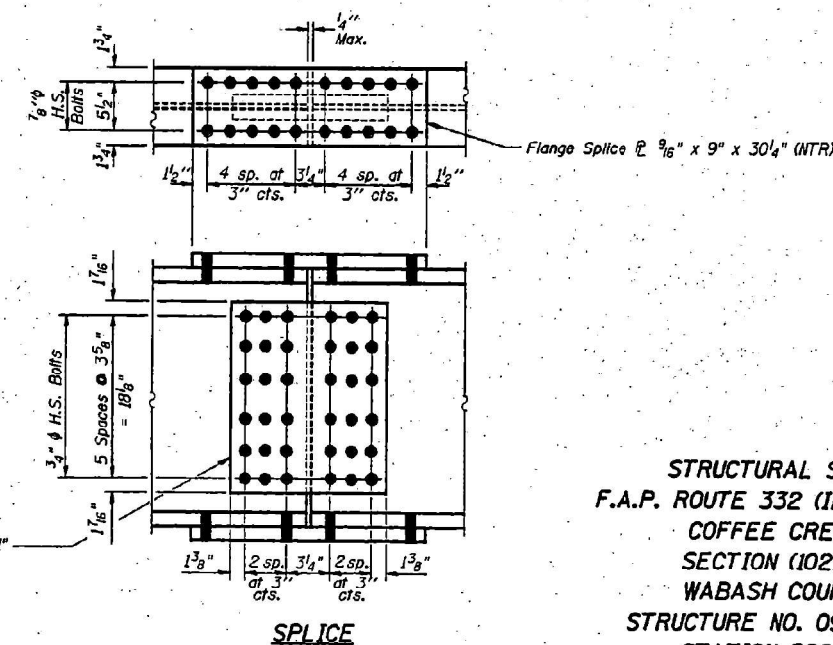
FRAMING PLAN

(N.T.R. Designates Notch Toughness Requirements)



SECTION A-A

3/4" Granular or solid flux filled headed studs automatically and welded to flange. (1764 Req'd.)



SPlice

TOP OF FLANGE ELEVATIONS*

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
@ Brg. South Abut.	404.53	404.69	404.80	404.80	404.69	404.53
@ Brg. Pier 1	404.59	404.74	404.86	404.86	404.74	404.59
@ Splice 1	404.60	404.75	404.87	404.87	404.75	404.60
@ Brg. Pier 2	404.65	404.80	404.92	404.92	404.80	404.65
@ Brg. North Abut.	404.70	404.86	404.97	404.97	404.86	404.70

*For Fabrication only

DESIGNED	K.E. Brandau
CHECKED	R.E. Stanley
DRAWN	R.E. Stanley
CHECKED	K.E. Brandau
S-I-D	2-26-93

STRUCTURAL STEEL
F.A.P. ROUTE 332 (IL ROUTE 1)
COFFEE CREEK
SECTION (102)BR
WABASH COUNTY
STRUCTURE NO. 093-0020
STATION 520+56

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 093-0020

USER NAME = Jessica.Hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/8/2023	DATE -	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	22
CONTRACT NO. 74854			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

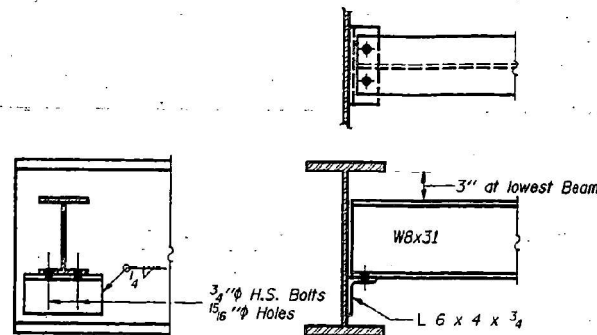
ROUTE NO.	SECTION	COUNTY	SHEETS	"SET"	SHEET NO. 11
F.A.P. 332		Wabash	43	18	SHEETS 21
PROJECT NO. (102)BR					DATE F-332(1)

	0.4 Span 1 or 0.6 Span 3	Pier 1 or Pier 2	0.5 Span 2
I_s (in ⁴)	1,830	1,830	1,830
I_c (n) (in ⁴)	6,298		6,298
$I_c(3n)$ (in ⁴)	4,841		4,841
S_s (in ³)	154	154	154
S_c (n) (in ³)	256		256
$S_c(3n)$ (in ³)	233		233
D (K/ft.)	0.794	1.101	0.794
M_D (K)	49	116	47
s_D (K/ft.)	0.307		0.307
M_{sD} (K)	23		28
M_L (K)	160	96	197
M (Imp) (K)	48	29	59
$s_1(M_L + I)$ (K)	347	208	427
M_a (K)	545	421	653
f_s non-comp. (k.s.i.)	3.8	9.0	3.7
f_s comp. (k.s.i.)	1.2		1.4
$f_s s_1 (L + I)$ (k.s.i.)	16.3	15.2	20.0
f_s (Overload) (k.s.i.)	21.3	25.2	25.1
f_s (Total) (k.s.i.)	27.7	32.8	32.6
VR (K)	45.8		43.5

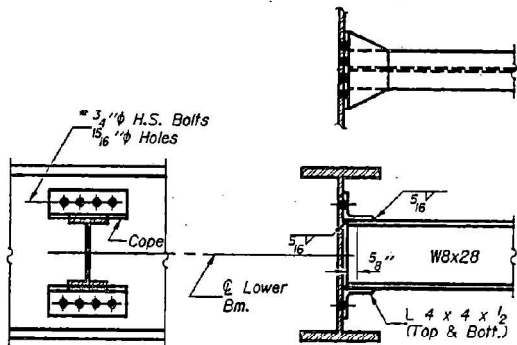
	Abuts.	Pier 1 or Pier 2
R_D (K)	12.5	40.8
R_L (K)	32.4	42.0
Imp. (K)	9.7	12.6
R (Total) (K)	54.6	95.4

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 $I_c(n)$ and $S_c(n)$ are the moment of inertia and section modulus used in computing stresses due to live loads.
 $I_c(3n)$ and $S_c(3n)$ are the moment of inertia and section modulus of the composite section due to superimposed dead loads.
 VR is the maximum Live Load + Impact shear range in span.
 M_a (Applied Moment) = $1.3M_D + M_{sD} + s_1(M_L + I)$.
 f_s (Overload) is the sum of the stresses due to $M_D + M_{sD} + s_1(M_L + I)$.
 f_s (Total) is the sum of the stresses due to $1.3M_D + M_{sD} + s_1(M_L + I)$.

DESIGNED K.E. Brandau
 CHECKED R.E. Stanley
 DRAWN D.W. Hileman
 CHECKED K.E. Brandau
 I-2-G 12-31-27



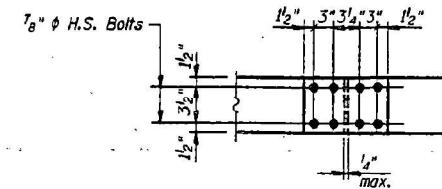
DIAPHRAGM D
8 Required



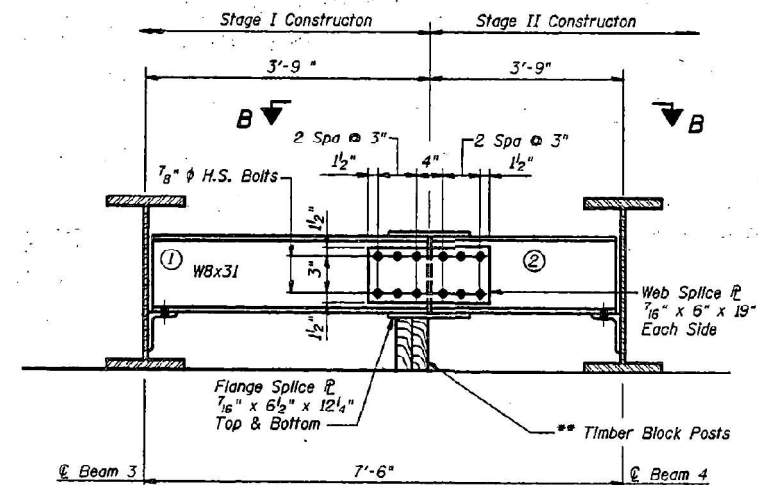
DIAPHRAGM D1
25 Required

Note: Two hardened washers shall be required over all oversize holes for diaphragms.

* Use 1 5/8" x 1 1/2" slotted holes in L 4x4x1/2 at location "A" only (See Sheet #10 of 21). Provide 5/16" plate washers for slotted holes. Bolts shall be finger tightened prior to the deck pour for Stage II Construction and then be fully tightened after completion of the deck pour for Stage II Construction.



VIEW B-B



DIAPHRAGM D2
(2 Required)
(Looking North)

For details of connections to beams see diaphragm D. Dimensions along \mathcal{C} diaphragm.

DIAPHRAGM D2 CONSTRUCTION SEQUENCE

- 1.) Order Diaphragm D2 in two sections with lengths of 3'-8 1/4" and 3'-8 1/4".
- 2.) Attach section ① of Diaphragm to Beam 3 and top flange splice PL during Stage I Construction.
- 3.) Place Timber Block Posts between section ① of diaphragm and abutment bearing seat.
- 4.) Attach section ② of diaphragm to both Beam 4 and section ① of diaphragm during Stage II Construction.
- 5.) Attach web splice plates to sections ① and ② of diaphragms.
- 6.) Remove Timber Block Posts.
- 7.) Attach bottom flange splice plate to sections ① and ② of diaphragms.

STRUCTURAL STEEL DETAILS
 F.A.P. ROUTE 332 (IL ROUTE 1)
 OVER COFFEE CREEK
 SECTION (102)BR
 WABASH COUNTY
 STRUCTURE NO. 093-0020
 STATION 520+56

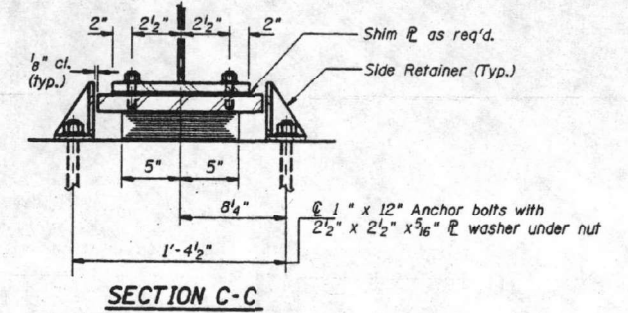
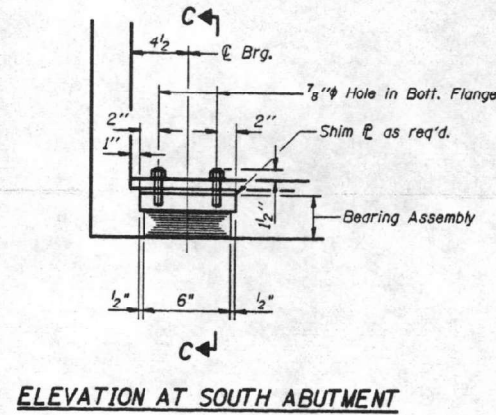
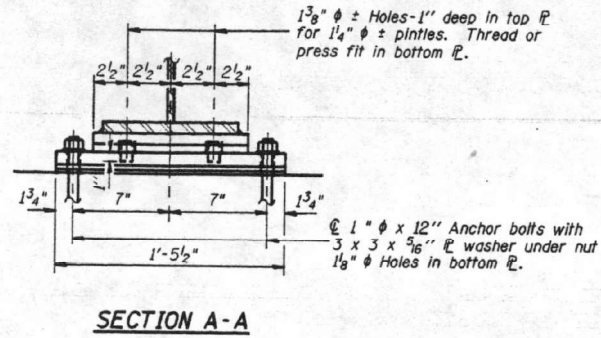
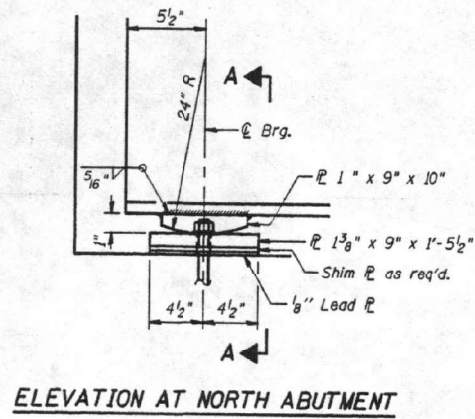
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 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 2/8/2023

USER NAME = Jessica.Hille	DESIGNED -	REVISED -	EXISTING STRUCTURE PLANS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -	SN 093-0020				VAR.	D7 BRIDGE PAINTING 2023-2	VARIOUS	24	23
	CHECKED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 74B54				
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

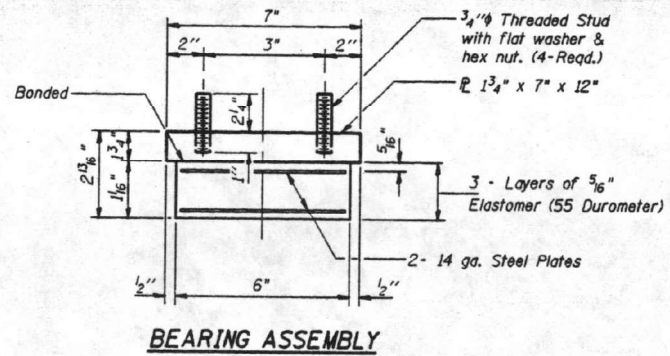
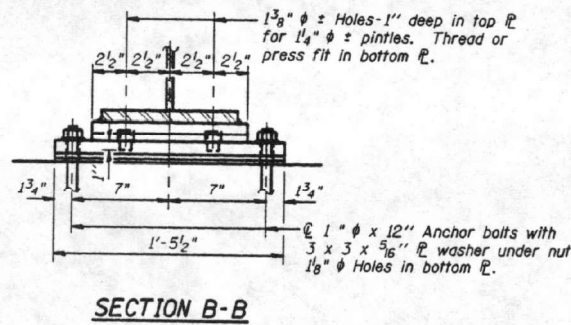
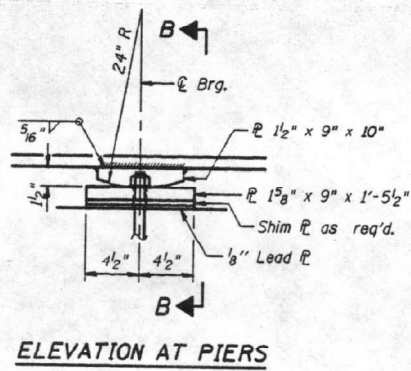
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET	NO.	SHEET NO. 12
332		Wabash	43	19	SHEETS 21
PROJECT NAME: (102)BR					PROJECT NO.: F-332()

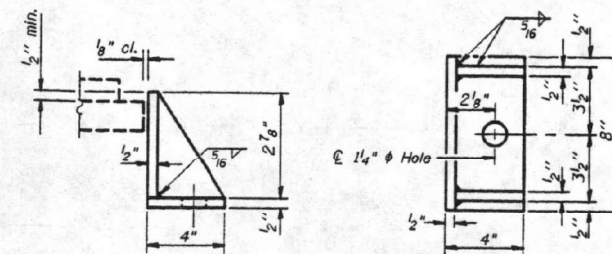
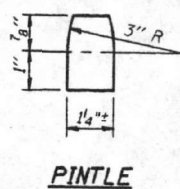


TYPE I ELASTOMERIC EXP. BRG.



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

FIXED BEARING



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6

BEARING DETAILS
F.A.P. ROUTE 332 (IL ROUTE 1)
OVER COFFEE CREEK
SECTION (102)BR
WABASH COUNTY
STRUCTURE NO. 093-0020
STATION 520+56

DESIGNED	K.E. Brandau
CHECKED	R.E. Stanley
DRAWN	D.W. Hileman
CHECKED	K.E. Brandau

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SN 093-0020

USER NAME = Jessica.Hille	DESIGNED -	REVISED -
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SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 BRIDGE PAINTING 2023-2		VARIOUS	24	24
			CONTRACT NO. 74B54	
			ILLINOIS FED. AID PROJECT	