

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

F.A.S. ROUTE 1807 (BUS. U.S. RTE. 50)  
 SECTION D7 BRIDGE PAINTING 2011-3

**BRIDGE PAINTING  
 LAWRENCE COUNTY**  
 C-97-055-11

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 7600 (2006)

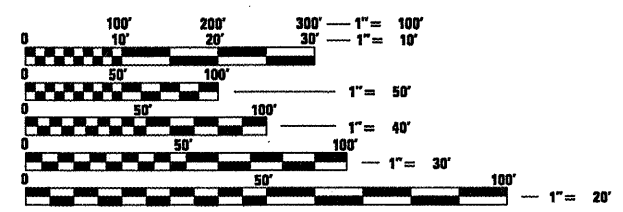
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1807		LAWRENCE	9	1
		ILLINOIS	CONTRACT NO. 74520	

D7 BRIDGE PAINTING 2011-3

D-97-020-11



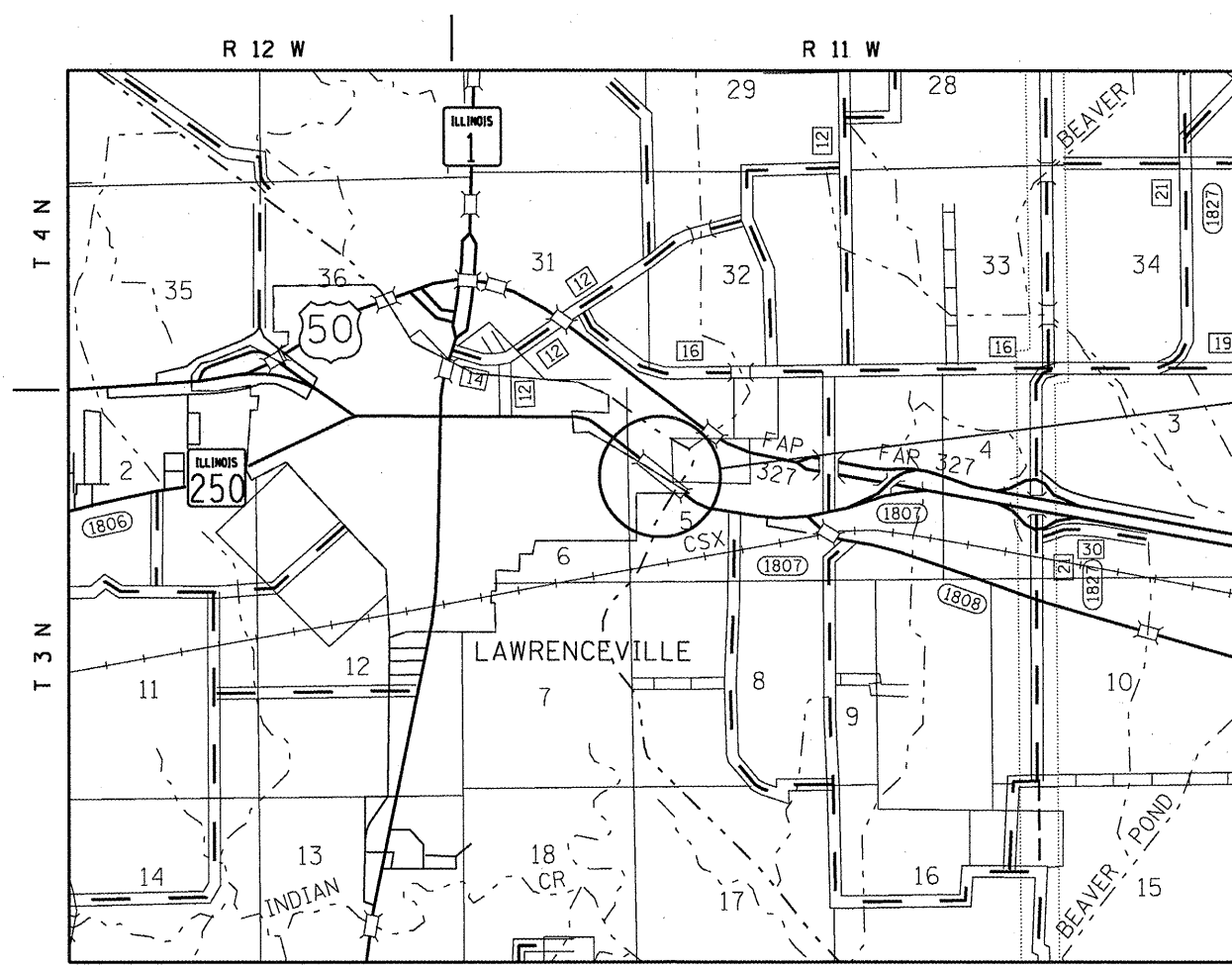
PROJECT LOCATION  
 S.N. 051-0053



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: TOM RONAN  
 PROJECT MANAGER: TOM RONAN  
 PHONE: 217-342-8320  
 CONTRACT NO. 74520



GROSS LENGTH = 1236 FT. = 0.23 MILE  
 NET LENGTH = 1236 FT. = 0.23 MILE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED April 5 2011  
*[Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 13 2011  
*Scott E. Stitt, P.E.*  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 13 2011  
*Christine M. Reed*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL NOTES, LOCATION DESCRIPTION, SUMMARY OF QUANTITIES
3-5	SUBSTRUCTURE SEALING PLANS
6-9	EXISTING STRUCTURE PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 9.

STANDARD 701001-02	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701006-03	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701201-04	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
STANDARD 701901-01	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

## PROJECT LOCATION

### PROJECT LOCATION

ROUTE: FAS 1807  
 MARKED: Business US 50  
 SECTION: 1B-1  
 STATION: 29+99.84  
 STRUCTURE NUMBERS: 051-0053

TYPE OF BRIDGE: Welded Plate Girders (6 Girders Total, River Span)  
 LOCATION: 0.5 Miles East of Lawrenceville  
 FEATURE CARRIED/SPANNED: Business US 50 over the Embarrass River

## GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007; THE SUPPLEMENTAL SPECIFICATIONS, THE RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE PROPOSED PROJECT IS LOCATED AT STRUCTURE NUMBER 051-0053 ON US BUSINESS 50 IN LAWRENCE COUNTY.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF CLEANING AND PAINTING THE BEAM ENDS, LATERAL BRACES, AND BEARINGS AS SPECIFIED IN THE PLANS AND SPECIAL PROVISIONS. THE WORK ALSO INCLUDES CLEANING AND SEALING THE CONCRETE SUBSTRUCTURE UNITS OF THE BRIDGE AT LOCATIONS AS SHOWN IN THE PLANS.

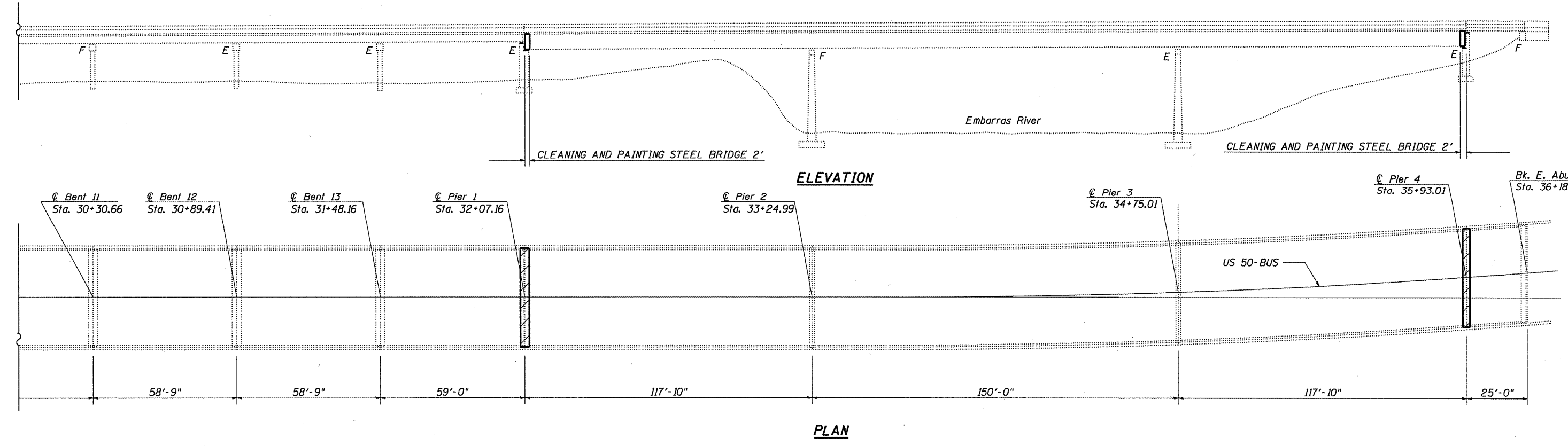
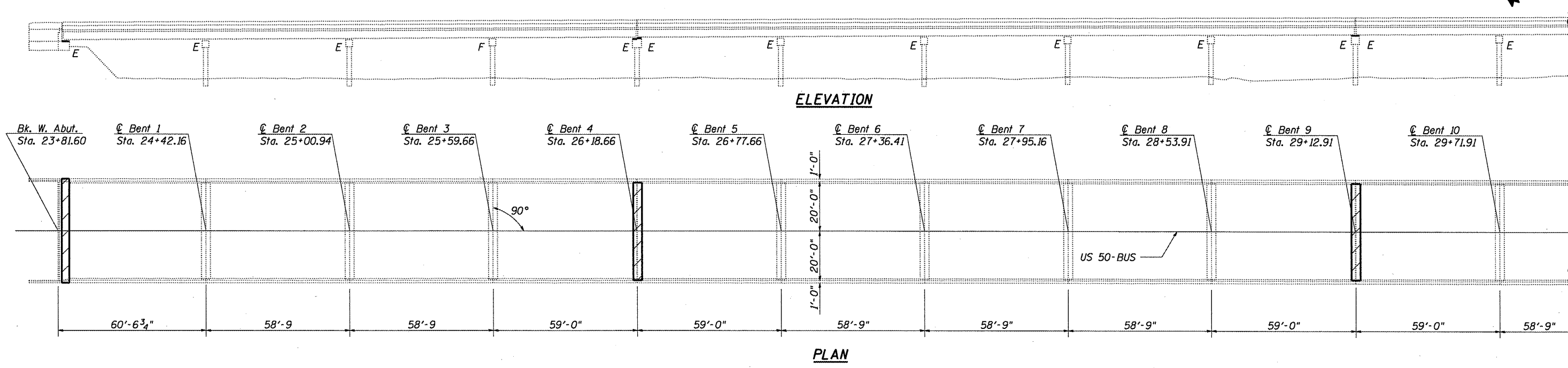
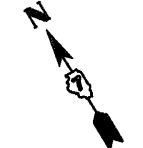
100% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT		0014
58700300	CONCRETE SEALER	SQ FT	670	670
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1	1
Z0010400	CLEANING BRIDGE SEATS	SQ FT	670	670
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

• D7 BRIDGE PAINTING 2011-3

FILE NAME =	USER NAME = swertzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, GENERAL NOTES LOCATION DESCRIPTION &amp; SUMMARY OF QUANTITIES</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci\pw_work\p\midot\swertzrw\d0262716\d774528-shr-index.dgn	DRAWN -	REVISED -	1807				LAWRENCE	9	2	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 74520							
PLOT DATE = 4/5/2011	DATE -	REVISED -	SCALE: NA			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

The existing eighteen span reinforced concrete deck on continuous steel I-beams and precast concrete beams structure was constructed in 1977 as FAI-1 section 1B-1 at Sta. 29+99.84. SN. 051-0053 carries FAS 1807 (US BUS 50) over the Embarras River. The proposed project consists of painting the beams ends and cleaning and sealing the bearing seats of all substructure units under expansion joints.



 CLEANING BRIDGE SEATS AND CONCRETE SEALER

FILE NAME =	USER NAME = swartzw	DESIGNED - KLB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION SN. 051-0053</b>			F.A.S. RTE. 1807	SECTION *	COUNTY Lawrence	TOTAL SHEETS 9	SHEET NO. 3
ct:\pw_work\pwidot\swartzw\d0262706\077	528-structures-0510053.dgn	DRAWN - KLB	REVISED -		SCALE: NA	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 74520			
	PLOT SCALE = 48.0000' / IN.	CHECKED - MEA	REVISED -		ILLINOIS FED. AID PROJECT							
	PLOT DATE = 4/5/2011	DATE - 03/25/11	REVISED -		* 07 BRIDGE PAINTING 2011-3							

**GENERAL NOTES**

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

Concrete sealer shall be applied to the designated areas as shown on the plans.

The structural steel shall be cleaned and painted as specified in the special provisions. The concrete substructure units shall be cleaned and sealed as specified in the plans and Standard Specifications.

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 Painting Contractor Certification will be required for this project.

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 girders and bearings, shall be cleaned by SSPC-SP10- Near White Metal Blast Cleaning. It is the intent of the Department that the end 2 feet of the girders, lateral bracing within 2 feet of the beam ends, as well as the bearing and masonry plates be cleaned and painted. The existing paint to be removed does not contain lead.

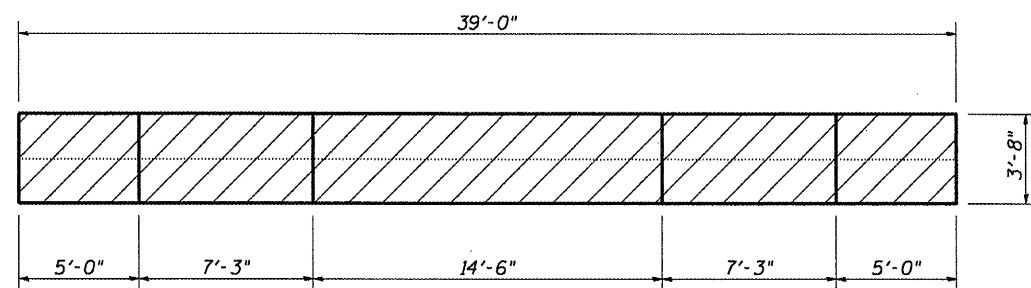
The designated areas cleaned per Near White Metal Blast Cleaning - SSPC-SP10 shall be painted according to the requirements of Paint System 1 - OZ/E/U.

No air monitors will be required.

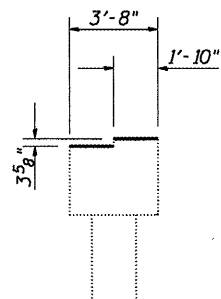
**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Cleaning Bridge Seats	Sq. Ft.	670
Concrete Sealer	Sq. Ft.	670
Cleaning and Painting Steel Bridge No. 1	L Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues	L Sum	1

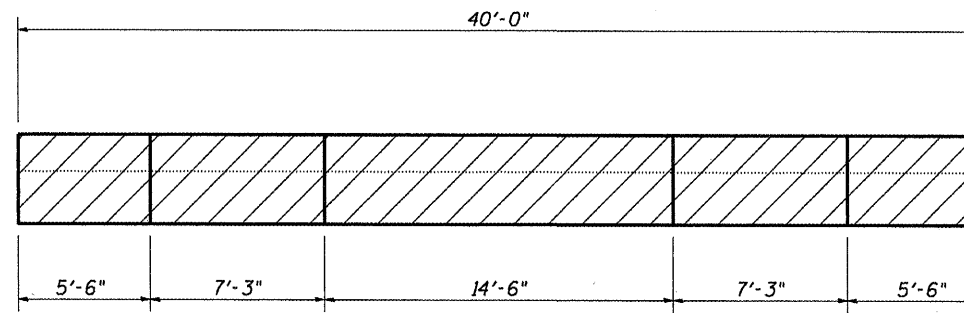
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PLOT SCALE = 40.0000' / IN.	CHECKED - MEA	REVISED -	SCALE: NA				SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 74520	
PLOT DATE = 4/5/2011	DATE - 03/25/11	REVISED -					ILLINOIS FED. AID PROJECT				
• 07 BRIDGE PAINTING 2011-3											



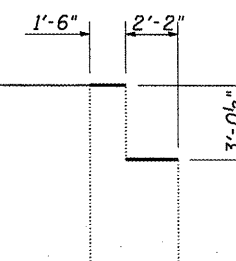
**BENT #4**  
TOP VIEW



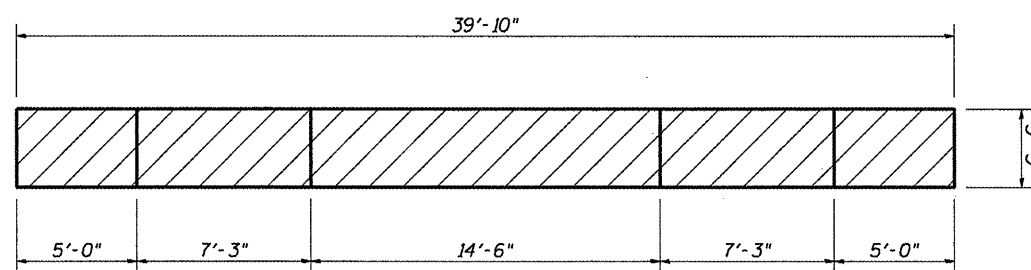
**BENT #4**  
END VIEW



**PIER #1**  
TOP VIEW



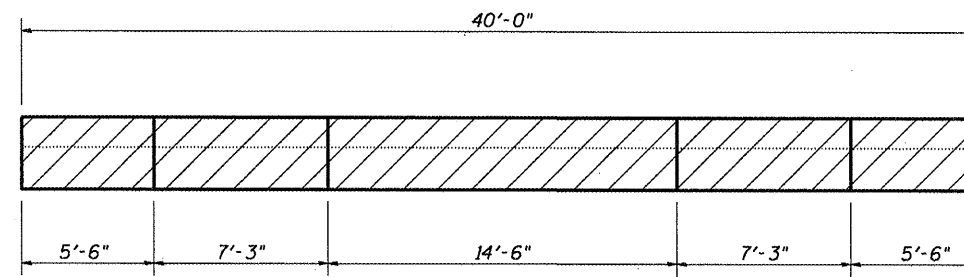
**PIER #1**  
END VIEW



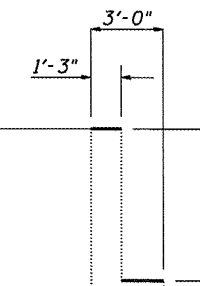
**BENT #9**  
TOP VIEW



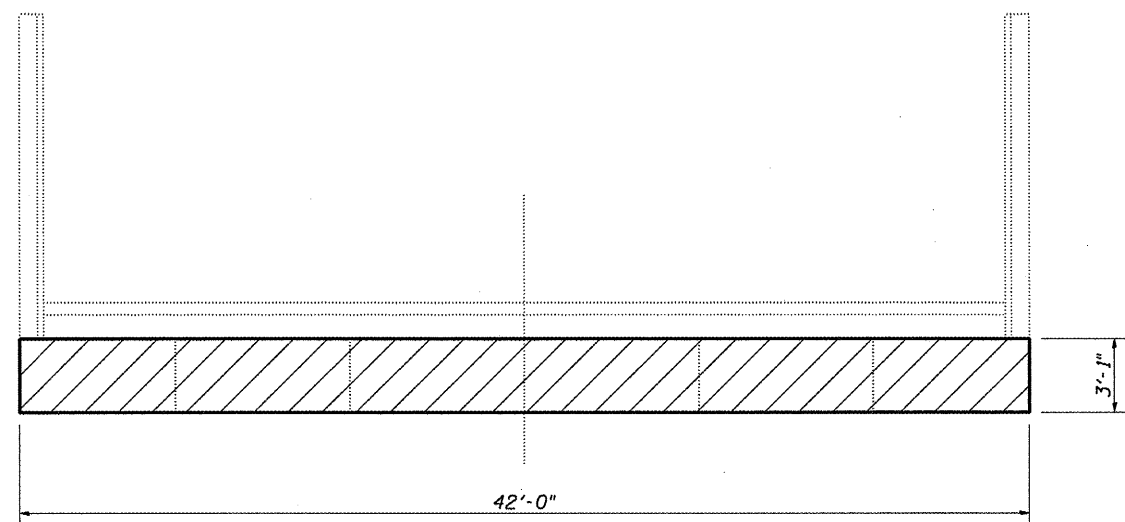
**BENT #9**  
END VIEW



**PIER #4**  
TOP VIEW



**PIER #4**  
END VIEW



**WEST ABUTMENT**  
TOP VIEW

CLEANING BRIDGE SEATS AND CONCRETE SEALER

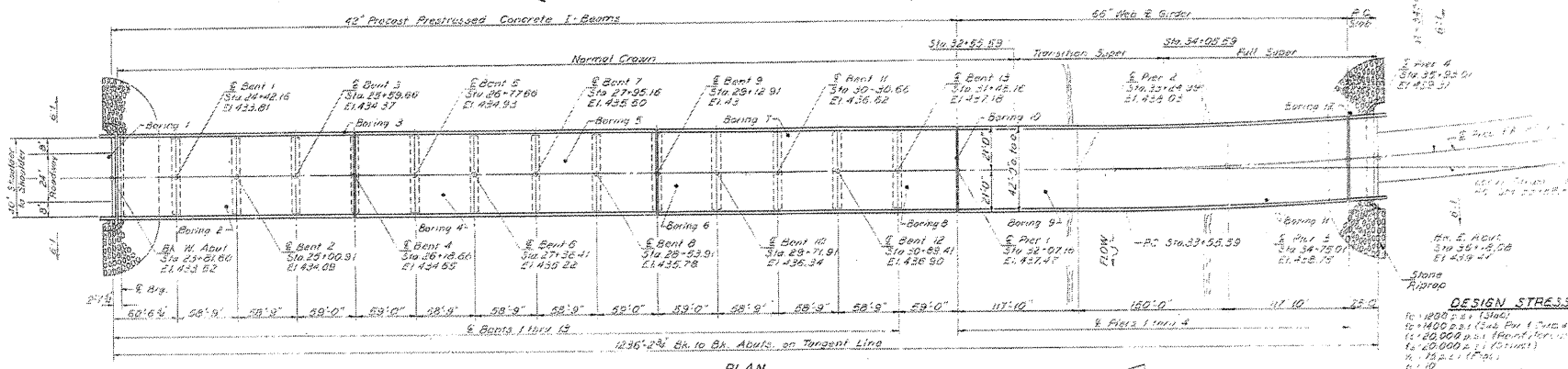
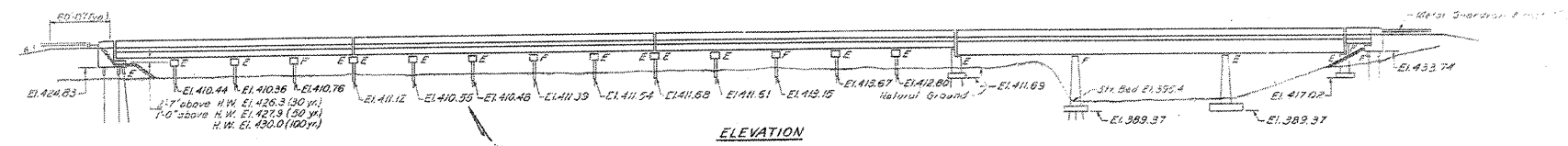
		BENT #4	BENT #9	PIER #1	PIER #4	W. ABUT.
CLEANING BRIDGE SEATS	SQ FT	143	130	147	120	130
CONCRETE SEALER	SQ FT	143	130	147	120	130

Note: Quantity for CLEANING BRIDGE SEATS and CONCRETE SEALER includes cleaning and sealing of bearing seats only.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

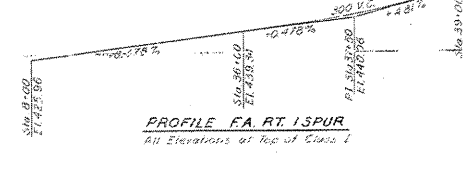
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12/10/62	WBS	REVISION	99	12/10/62
1/10/63	WBS	REVISION	100	1/10/63

B.M. #2A Chisled on S.W. Wingwall of existing bridge, El. 428.28 - B.M. #3 Chisled on N.E. Wingwall of existing bridge, El. 428.28. Existing Structure: Built as 3, 2, 1, 16, 30c, 18, Sta. 35+41.56 in 1924, 1-120' Truss spans. El. 428.28, 428.28, 428.28. Contractor shall remove existing structure after completion of proposed structure and roadway. Sta. 16+081.0030 No Salvage.



**WATERWAY INFORMATION**  
 Drainage Area 2,500 Sq. Ft.  
 Channel 37 1/2' Clay  
 Required Capacity 16,025 Cfs Ft.  
 Proposed Capacity 16,025 Cfs Ft.  
 Existing Capacity 10,025 Cfs Ft.  
 Design H.W. El. 427.9 (50 yr.)  
 Cr. = 80,000 c.f.s. / Run 80,000 c.f.s.  
 Crested Height 0.01'  
 Note: PG estimated to provide 2' 0" freeboard above 50 yr. D.H.W. El. 428.3 consistent with Hwy. Classification, 55 yr. criteria shown to protect against backwater damage.

**PROP. HORIZ. CURVE DATA**  
 P1 Sta. 42+05.82  
 PC Sta. 33+55.59  
 PT Sta. 30+18.05  
 D 275.516'  
 T 140'-00"  
 L 816.23'  
 E 343.725'  
 L 1663.27'  
 E 102.10'  
 S.C. 0.034% atptd in 100'  
 Sta. 34+55.59 to Sta. 34+05.59

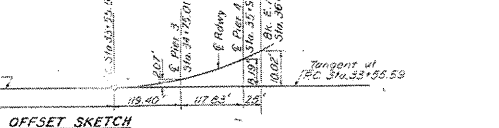


**DESIGN STRESSES**  
 1. 1,200 p.s.i. (Concrete)  
 2. 14,000 p.s.i. (Steel)  
 3. 20,000 p.s.i. (Reinforcing Steel)  
 4. 2,000 p.s.i. (Concrete)  
 5. 15,000 p.s.i. (Steel)  
 6. 10,000 p.s.i. (Concrete)  
 7. 10,000 p.s.i. (Steel)

**LOADING HS 20-44**  
 Design Speed 40 mph  
 10' WAPACABLE  
 Abut. 25' 1/2" 4' 10" 10' 10'

DESIGNED *R. E. Summer*  
 CHECKED *R. E. Summer*  
 DRAWN *R. E. Summer*  
 CHECKED *R. E. Summer*

EXAMINED *Carl K. Sommer*  
 PASSED  
 APPROVED

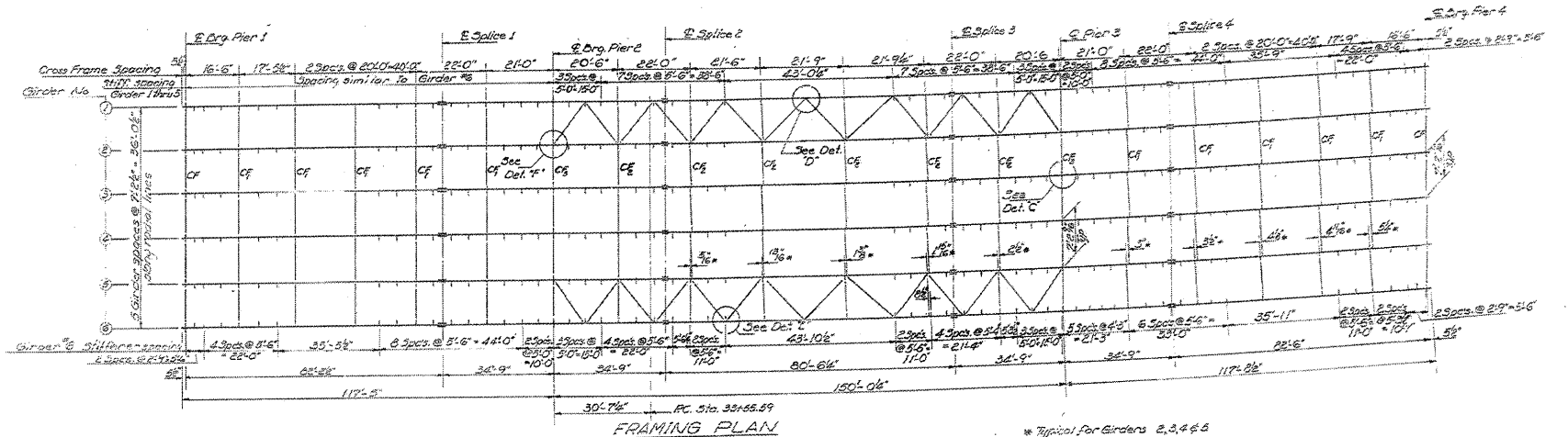


PROJECT BOUNDARIES  
 GENERAL PLAN & ELEVATION  
 FA. RT. 1 SPUR SEC. 18-1  
 LAWRENCE COUNTY  
 STATION 29+99.89

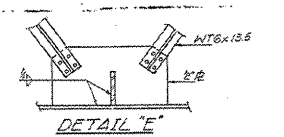
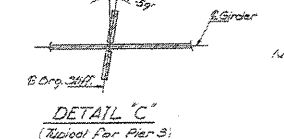
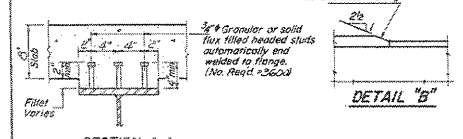
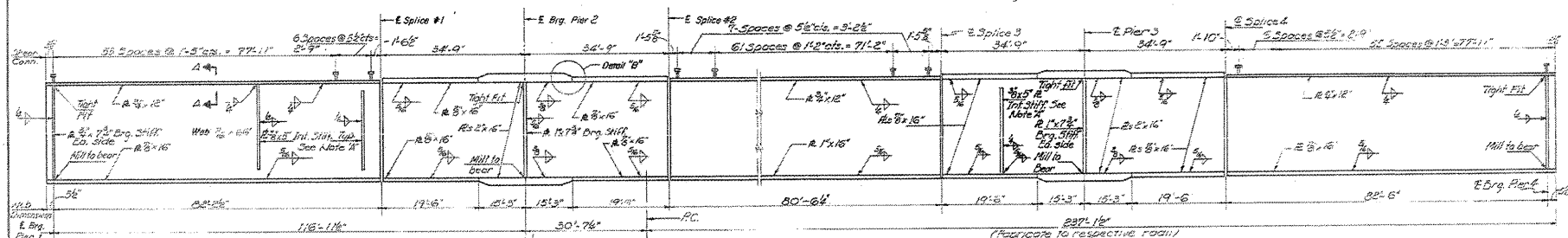
74520  
SHEET 6 OF 9

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APP'D	SHEET NO.
12-1-72	Lawrence	LD	LD	30 SHEETS



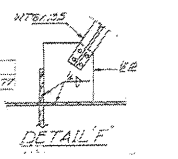
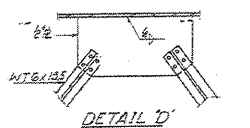
Note: All Intermediate Stiffeners shall be at right angles to girder.



Notes:  
1- Intermediate stiffeners between Splice 1 & Splice 2 shall be undercut 2" at top, except those stiffeners at either side of splice shall be undercut 2" top & bottom. All other intermediate stiffeners shall be undercut 2" at bottom.  
2- The main line carries from the main line to the top flange on the larger web and splice side of the steel girders.

GIRDER RADII

SPICE	1	2	3	4	5
RADIUS	134'9.75"	232'6.14"	243'4.12"	241'3.55"	240'5.56"



DESIGNED: R. W. MULLIN  
CHECKED: J. M. S. JAC  
DRAWN: A. D'ARZOLO  
CHECKED: P. L. VON

7-1-72

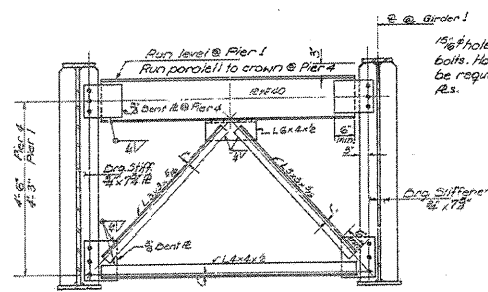
STRUCTURAL STEEL  
PART 1.5 PER SEC. 10-1  
LAWRENCE COUNTY  
STA. 29+99.84

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

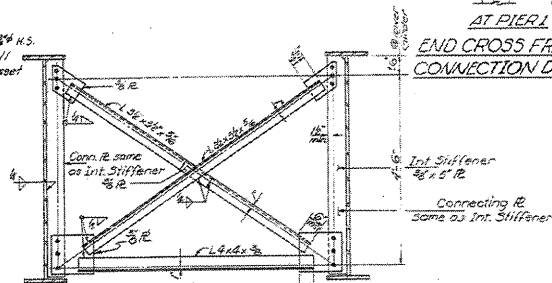
PROJECT	NO.	DATE	SCALE	SHEET NO.
15	74520	10/25	SC	88
				30 SHEETS

TOP OF WEB ELEVATIONS

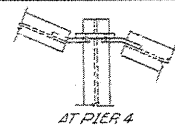
Station	1	2	3	4	5	6
Left	436.18	436.20	436.60	436.69	436.99	437.16
Right	437.35	437.38	437.78	437.87	438.17	438.34



TYPICAL CF FRAME  
Number Reqd. 10



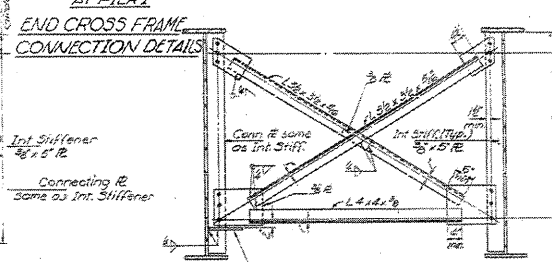
TYPICAL CF CROSS FRAME  
Number Reqd. 20



AT PIER 4

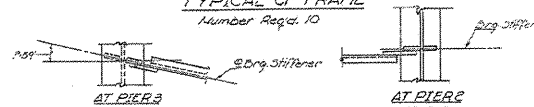


AT PIER 1

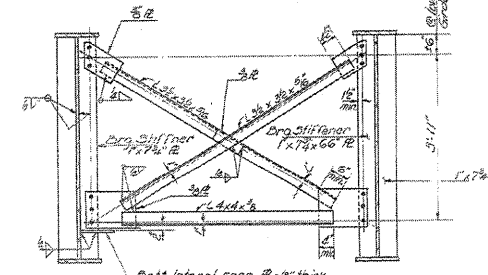


END CROSS FRAME  
CONNECTION DETAILS

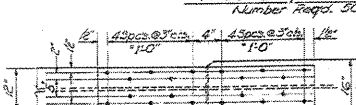
TYPICAL CF CROSS FRAME  
Number Reqd. 30



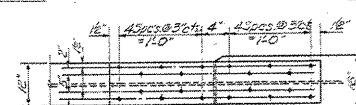
CROSS FRAME CONNECTION DETAILS



TYPICAL CF CROSS FRAME  
Number reqd. 10



FIELD SPLICE #15 4  
All bolts 3/4 H.S.



FIELD SPLICE #26 3  
All bolts 3/4 H.S.

INTERIOR GIRDER MOMENT TABLE

Span	1	2	3
$I_x$ (in <sup>4</sup> )	10430	10430	10430
$I_y$ (in <sup>4</sup> )	25606	24476	24476
$J$ (in <sup>4</sup> )	65626	-	91389
$S_x$ (in <sup>3</sup> )	1162	2413	1683
$S_y$ (in <sup>3</sup> )	1809	-	1716
$r_x$ (in)	97.1	97.9	97.3
$r_y$ (in)	77.0	77.6	76.1
$Z_x$ (in <sup>2</sup> )	80	82	78
$Z_y$ (in <sup>2</sup> )	471	471	471
$I_{xx}$ (in <sup>4</sup> )	229	225	218
$I_{yy}$ (in <sup>4</sup> )	946	1065	1036
$I_{xy}$ (in <sup>4</sup> )	205	206	197
Total $I_x$	10625	10799	10727
Total $I_y$	125	102	106
Total $J$	692	691	688
$r_x$ (in)	82.1	82.1	82.1

INTERIOR GIRDER REACTION TABLE

Span	1	2
$R_1$ (k)	22.3	216.6
$R_2$ (k)	42.6	66.8
$R_3$ (k)	8.8	7.8
$R_4$ (k)	110.7	102.8

$I_x$  and  $I_y$  are the moments of inertia about the principal axes of the steel section.  
 $Z_x$  and  $Z_y$  are the moments of inertia about the principal axes of the component section used in computing  $I_x$  and  $I_y$ .  
 $r_x$  and  $r_y$  are the radii of gyration about the principal axes.  
PR is maximum positive moment stress only.

DESIGNED BY: *[Signature]*  
CHECKED BY: *[Signature]*  
DRAWN BY: *[Signature]*  
DATE: *March 30 1925*  
EXAMINED BY: *[Signature]*  
APPROVED BY: *[Signature]*

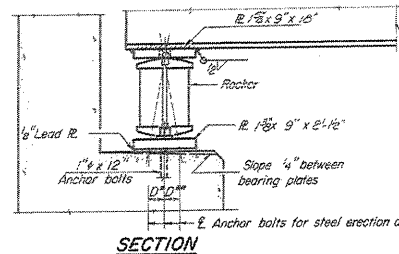
STRUCTURAL STEEL DETAILS  
FA. RTE. I.S.P.U.P. SEC. 13-1  
LAWRENCE COUNTY  
STA. 29+99.64

74520  
8 of 9  
SHEET 74520

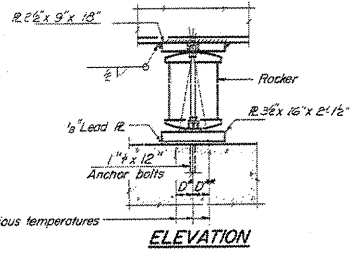


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

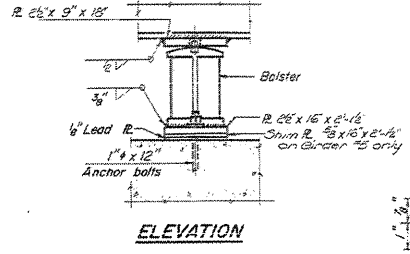
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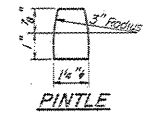
SECTION



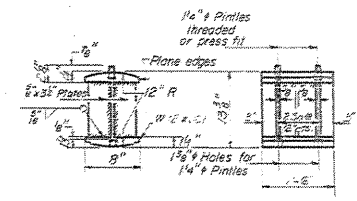
ELEVATION



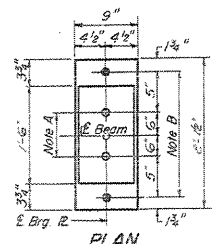
ELEVATION



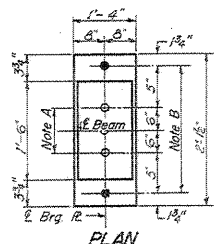
PINTLE



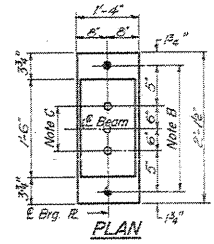
ROCKER



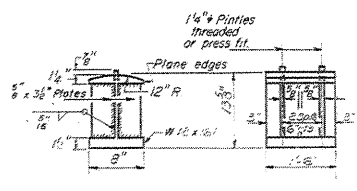
PLAN  
AT PIERS 1 & 4



PLAN  
AT PIER 3



PLAN  
AT PIER 2



BOLSTER

NOTE A  
1/4" Holes - 1" deep in top R.  
for pintles. Thread or press fit  
pintles into bottom R.

NOTE B  
1/4" Holes for 1" anchor bolts.  
1 1/2 x 2 1/2 x 2 1/2 R. Washers  
under nut.

NOTE C  
1/4" Holes 1" deep in top R.  
only for 1/4" pintles.

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- a) D<sup>o</sup> (Side of brg away from fixed brg.)  
D<sup>o</sup> 1/8" per each 100' of expansion for  
every 15° fall below the normal temp.  
of 50°F.  
D<sup>o\*</sup> (Side of brg toward fixed brg.)  
D<sup>o\*</sup> 1/8" 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<sup>o</sup> or D<sup>o\*</sup>  
determined, holes shall be drilled and anchor bolts shall  
be grouted in place. All fixed anchor bolts may be built  
into the masonry.

BEARING ASSEMBLY DETAILS

DESIGNED <i>V. H. H. H.</i>	EXAMINED <i>March 20 1975</i>
CHECKED <i>W. J. H. H.</i>	PASSED <i>Paul L. H. H.</i>
DRAWN <i>P. G. H. H.</i>	APPROVED
CHECKED	

BEARING DETAILS  
FA. RTE. 1 SPUR SEC. 18-1  
LAWRENCE COUNTY  
STA. 29+99.64

I-2-B 9-1-68, 8-1-70

74520  
SHEET 9 OF 9