

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

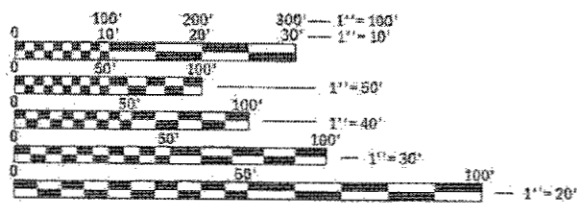
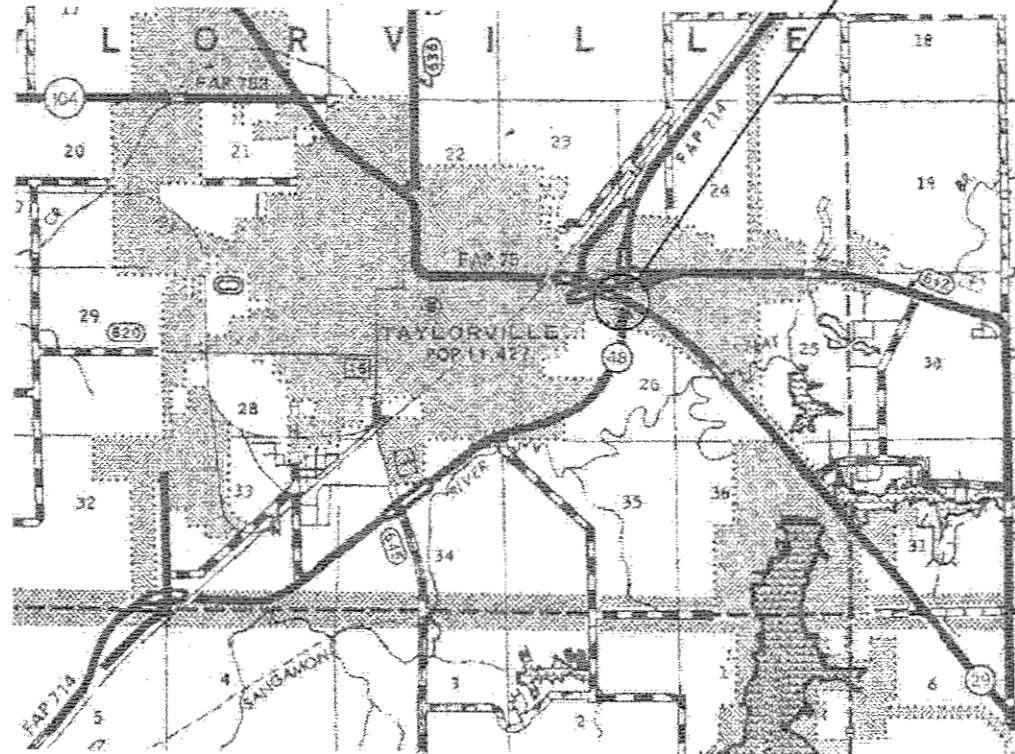
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
BRIDGE PAINTING**

FAP ROUTE 75 (IL 29)
SECTION (4) BP
PROJECT STP-IEBV(901)
BRIDGE PAINTING
CHRISTIAN COUNTY

C-96-036-18

PROJECT LOCATION - SN 011-0010
IL 29 OVER IL 48
0.1 MI S OF IL 29 / IL 48 INT.
EAST OF TAYLORVILLE



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
1-800-832-0123
OR 811

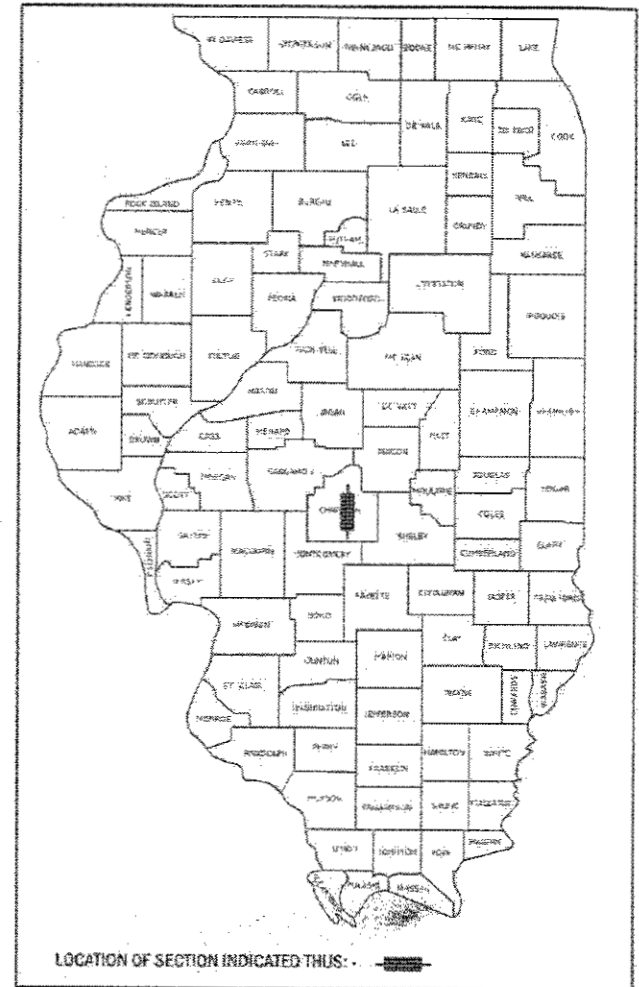
BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290
BRIDGE INSPECTION ENGINEER: JASON JONES - (217) 785-5306

GROSS LENGTH = 135 FT. = 0.03 MILE
NET LENGTH = 135 FT. = 0.03 MILE

CONTRACT NO. 72K38

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	143 BP	CHRISTIAN	4	1
		ILLINOIS	CONTRACT NO. 72K38	

D-96-022-18



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *14 November 2017*

Feb 2 2018 REGIONAL ENGINEER

Feb 2 2018 ENGINEER OF DESIGN AND ENVIRONMENT

Paul P. [Signature] DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, GENERAL NOTES, SIGNATURES, & SUMMARY OF QUANTITIES
- 3-4 EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)

HIGHWAY STANDARDS

- 000001-06
- 001006
- 701001-02
- 701006-05
- 701301-04
- 701321-17
- 701901-07
- 704001-08
- 782006

0-01514-6005
 80% FED.
 20% STATE
 BRIDGE
 0047
 URBAN

GENERAL NOTES:

1. WORK SHALL CONSIST OF BLASTING AND PAINTING ALL STRUCTURAL STEEL ON SN D11-0010. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL AREAS TO BE PAINTED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING PER SSPC SP 10. ALL EXISTING STEEL CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM I - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR THE OUTSIDE AND BOTTOM OF THE FASCIA BEAMS SHALL BE GREEN (MUNSELL 7.5G 4/8). THE FINISH COAT FOR ALL OTHER AREAS SHALL BE GRAY (MUNSELL 5B 7/1).
2. THE USE OF AIR MONITORS WILL BE REQUIRED. A MINIMUM OF 2 MONITORS WILL BE REQUIRED DURING BLASTING OPERATIONS. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."
3. THE SSPC-OP-1 AND SSPC-OP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED.
4. CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. RUBBER COMPONENTS SHALL NOT BE PAINTED.
5. UPON COMPLETION OF PAINTING OPERATIONS, THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM PIER OR ABUTMENT CAPS UPON WHICH PAINTING OPERATIONS TOOK PLACE. FINAL CLEANUP SHALL BE CONSIDERED INCIDENTAL TO THE PAINT PAY ITEM FOR THE RESPECTIVE LOCATION. THE ENGINEER SHALL HAVE THE RIGHT TO WITHOLD PAYMENT UNTIL SATISFACTORY CLEANUP IS ACHIEVED.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 DISTRICT 6**

EXAMINED November 6th 20 17
[Signature]
 ENGINEER OF OPERATIONS

EXAMINED Oct 6th 20 17
[Signature]
 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED November 6 20 17
[Signature]
 ENGINEER OF PROGRAM DEVELOPMENT

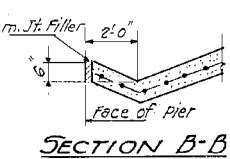
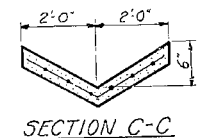
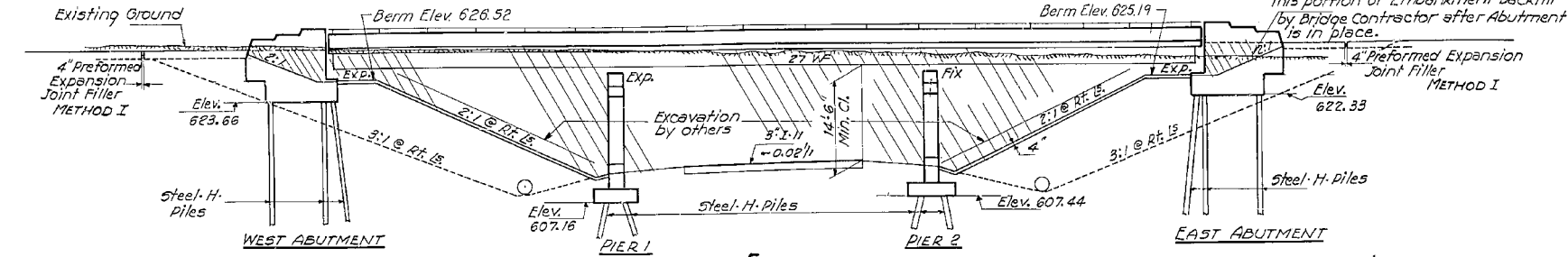
9

B.M. Vert. R.R. Spike in 18" Hackberry
240' Lk. Sta. 28+18 Elev. 629.09

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 25	4-4B	Christian	18	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT: U-44(4)		

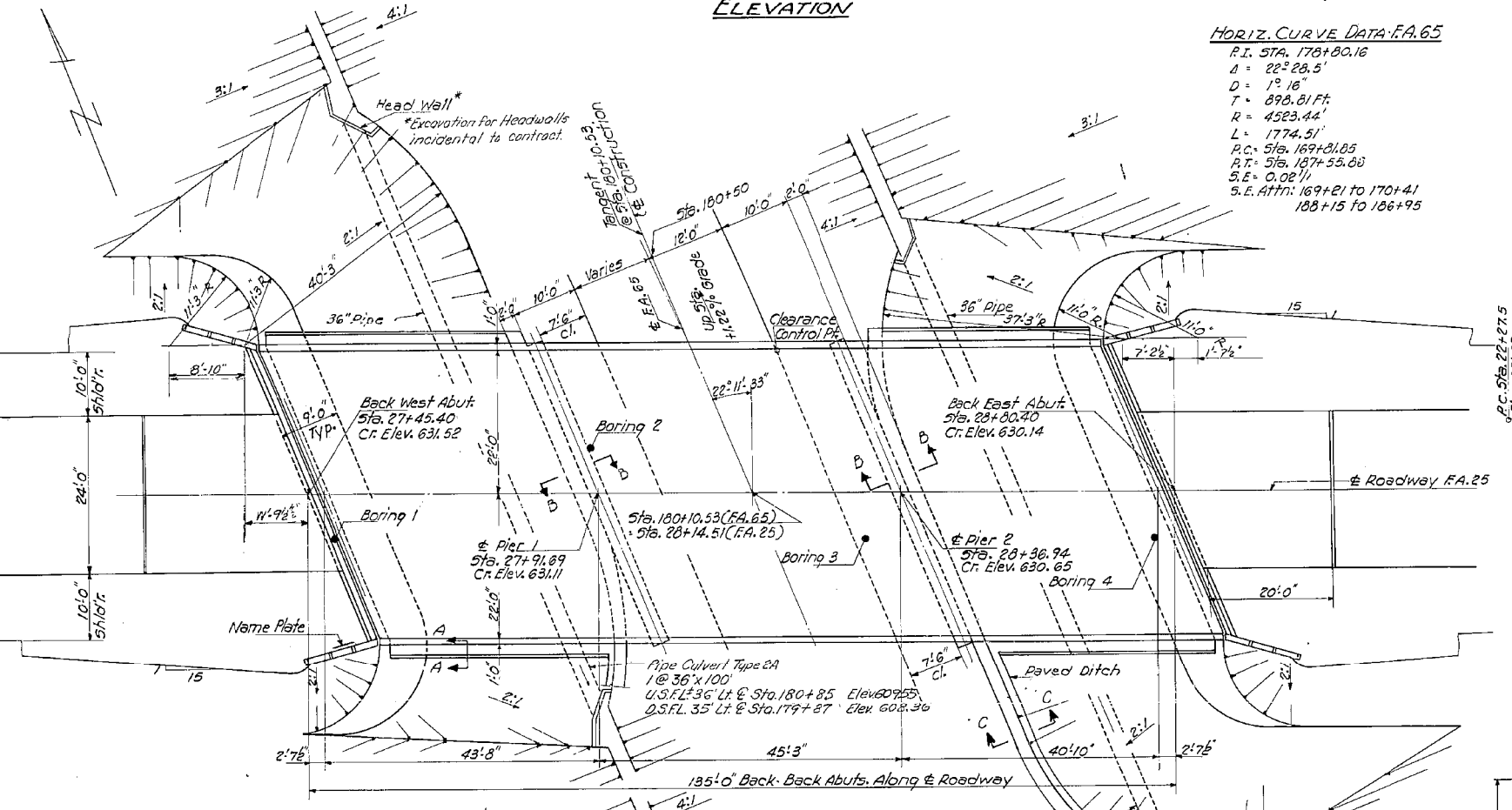
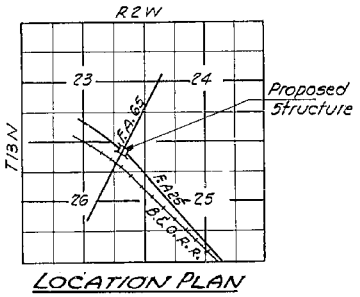
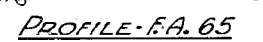
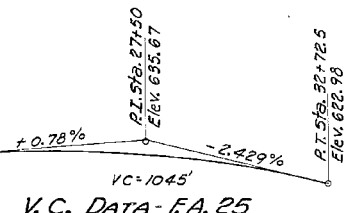
SHEET NO. 1
10 SHEETS



GENERAL NOTES
Coarse aggregate to be used in parapet handrail 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 50 Lbs. per 100 sq. ft. All Reinforcement Bars shall be lapped 20 diameters unless otherwise shown. Rivets 3" Open Holes 1/2" unless otherwise noted. Anchor Bolts shall be set before riveting diaphragms over support. The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint; the contact surfaces shall be given one shop coat of red lead paint. Anchor Bolts shall not be painted.

Expansion Guards are included in quantity of Structural Steel. Estimated weight = 1410 Lbs. Except as otherwise provided all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. The Contractor shall drive two steel test piles in permanent locations as directed by the Engineer one at West Abutment and one at Pier 2 before ordering the remainder of piles. Piles shall be driven to refusal.

HORIZ. CURVE DATA - FA. 65
P.I. STA. 176+80.16
Δ = 22° 28.5'
D = 120.16'
T = 898.81 Ft.
R = 4523.44'
L = 1774.51'
P.C. Sta. 169+81.85
P.T. Sta. 187+55.03
S.E. = 0.02 1/11
S.E. Attn: 169+21 to 170+41
188+15 to 186+95



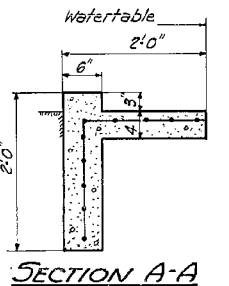
NOTE: Estimated quantity Class X Concrete (Headwalls) 14.8 Cu. Yds. Reinforcement bars 400 lbs. for 4 headwalls included in substructure Total Bill of Material. See Standard 2051 (DS-36-2-45). Exact location of culvert headwalls to be determined by the Engineer in the field.

PLAN

STATION 28+14.51
BUILT 196 BY
STATE OF ILLINOIS
FA. RT. 25 - SEC. 4-4B
FA. PROJ. U-44(4)
LOADING H20-516

NAME PLATE
See standard 213

DESIGN STRESSES
fc --- 1400 #/sq Super & Sub.
fs --- 20000 #/sq Reinf.
fs --- 20000 #/sq Struct (A-36)
Vc --- 75 #/sq Footings
n --- 10



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB.	TOTAL
Class X Concrete Headwalls	Cu. Yds.		14.8	14.8
Class A Excavation for structures	Cu. Yds.		130	130
Class X Concrete	Cu. Yds.	161.9	202.5	364.4
Structural Steel	Lbs.	124920	201.8	124920
Aluminum Handrail - Type D	Lin. Ft.	263	20820	263
Reinforcement Bars	Lbs.	38910	20470	59380
Steel Piles (8 BP36)	Lin. Ft.		1330	1330
Test Piles Steel (8 BP36)	Each		2	2
Name Plates	Each		1	1
Slope Wall - 4"	Sq. Yds.			960
Protective Coat	Sq. Yds.	754		754
Pipe Culvert 36" (Type 2A)	Lin. Ft.			200
Bridge Seat Sealant	Lump Sum		1	1
Metal Handrail - Type J	Lin. Ft.	263		263
Metal Handrail - Type K	Lin. Ft.	263		263

DESIGNED J.M. Jzworke
CHECKED W. H. H. H.
DRAWN J.M.J.
CHECKED W. H. H. H.
EXAMINED W. H. H. H.
PASSED J. S. S.
APPROVED J. S. S.

GENERAL PLAN & ELEVATION
PROJ. U-44(4)
FA. RT. 25 - SEC. 4-4B
OVER FA. RT. 65
CHRISTIAN COUNTY
STATION 28+14.51

Revised 9-9-63 J.M.J. Section C-C Quantities for headwalls added.

Revised 2-14-64 W.H. Class X Concrete Changed From 364.4 Cu. Yds. to 363.7 Cu. Yds.

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/7/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

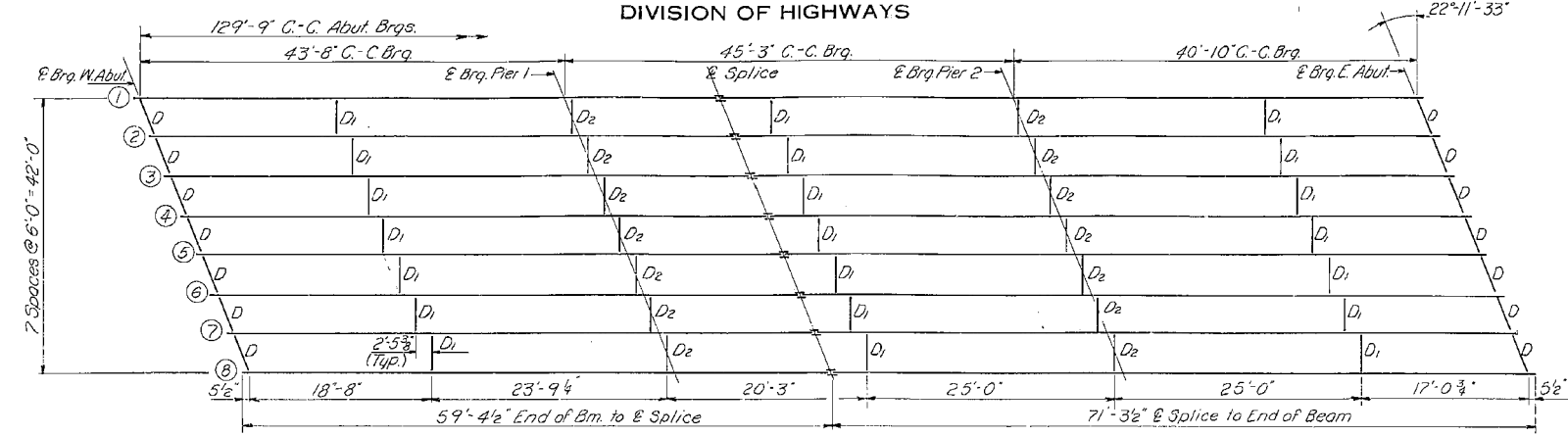
EXISTING PLANS, SN 011-0010
(FOR INFORMATION ONLY)

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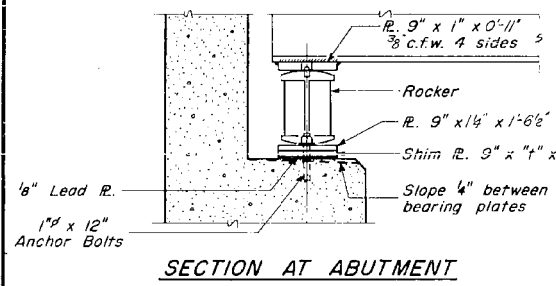
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(4) BP	CHRISTIAN	4	3
			CONTRACT NO. 72K38	
		ILLINOIS	FED. AID PROJECT	

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

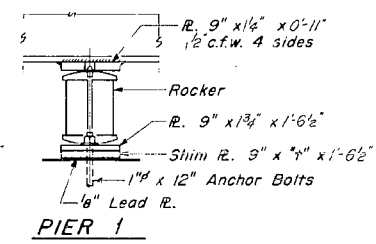
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
25	4-HB	Christian	18	6	10 SHEETS
FED. ROAD DIST. NO. 1		BLANDED		FED. AID PROJECT	



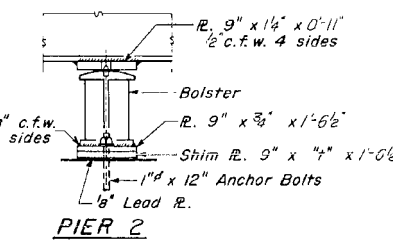
FRAMING PLAN
All beams are 27WF94 and shall conform to A-36 Steel.



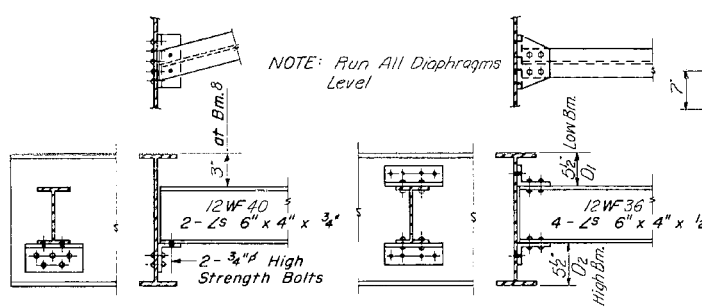
SECTION AT ABUTMENT



PIER 1



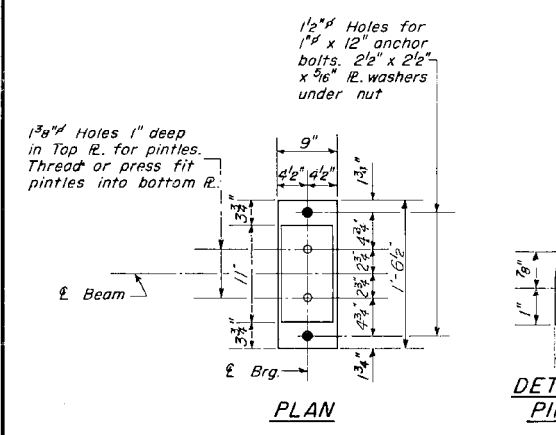
PIER 2



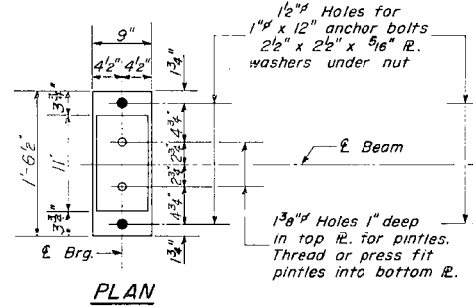
DIAPHRAGM D
1/4" Required

DIAPHRAGM D1 & D2
21 D1 & 14 D2 Required

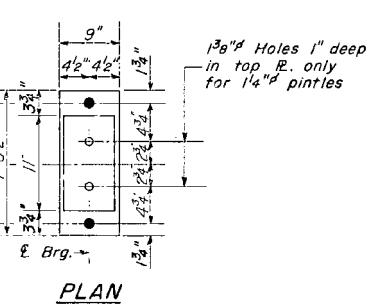
FABRICATION DIAGRAM
All Beams



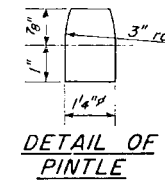
PLAN



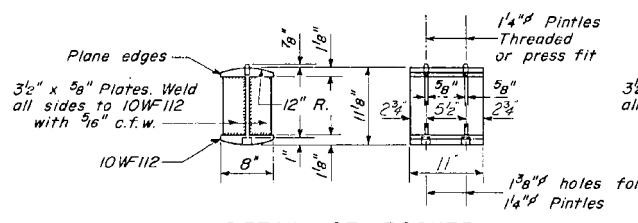
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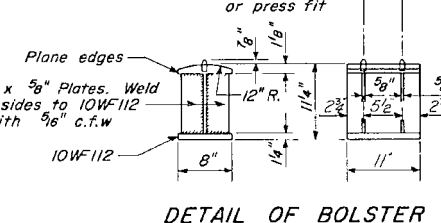
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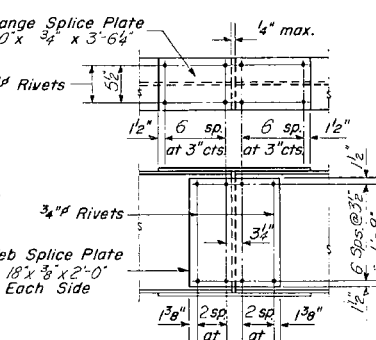
DETAIL OF PINTLE



DETAIL OF ROCKER AT PIER 1 & ABUT



DETAIL OF BOLSTER AT PIER 2



DETAIL OF SPLICE

*** DIMENSIONS**
Use 1/2" shim plate @ Brm 4 &
5/8" shim plate @ Brm 5, at all supports.

ELEVATION TOP OF W

Location	Brm 1	Brm 2	Brm 3	Brm 4	Brm 5	Brm 6	Brm 7	Brm 8
E Brq. W. Abut.	630.69	630.79	630.88	630.92	630.89	630.81	630.67	630.52
E Brq. Pier 1	630.26	630.36	630.45	630.49	630.46	630.38	630.24	630.09
E Splice	630.11	630.21	630.30	630.34	630.31	630.23	630.09	629.94
E Brq. Pier 2	629.79	629.89	629.98	630.02	629.99	629.91	629.77	629.62
E Brq. E. Abut.	629.35	629.46	629.55	629.59	629.56	629.48	629.34	629.19

DESIGNED	J. M. Sausman	EXAMINED	W. A. Sausman Jr.
CHECKED	W. A. Sausman Jr.	PASSED	E. J. Sausman
DRAWN	W. A. Sausman Jr.	APPROVED	W. A. Sausman Jr.
CHECKED	W. A. Sausman Jr.		

I-2 7-2-62 Rev. 11-9-62

STRUCTURAL STEEL
F.A.R.T. 25 SEC. 4-HB
CHRISTIAN COUNTY
STA. 28 + 14.15

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/7/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 011-0010
(FOR INFORMATION ONLY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	(4) BP	CHRISTIAN	4	4
CONTRACT NO. 72K38				
ILLINOIS FED. AID PROJECT				