

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55.72	D6 BDGE PAINTING 2019	SANGAMON	1	1
ILLINOIS CONTRACT NO. 72L33				

D-96-056-19

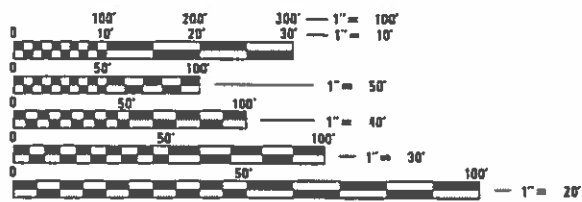
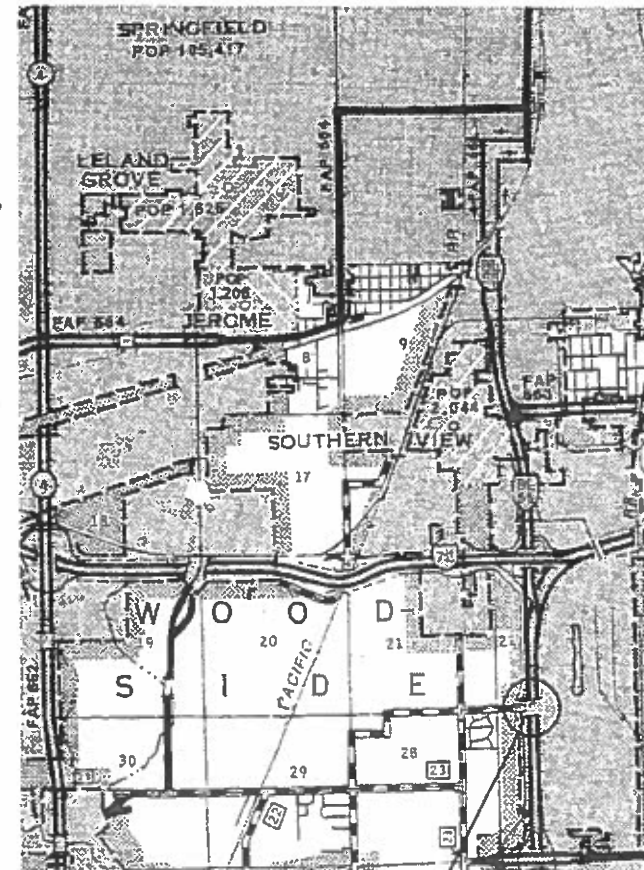
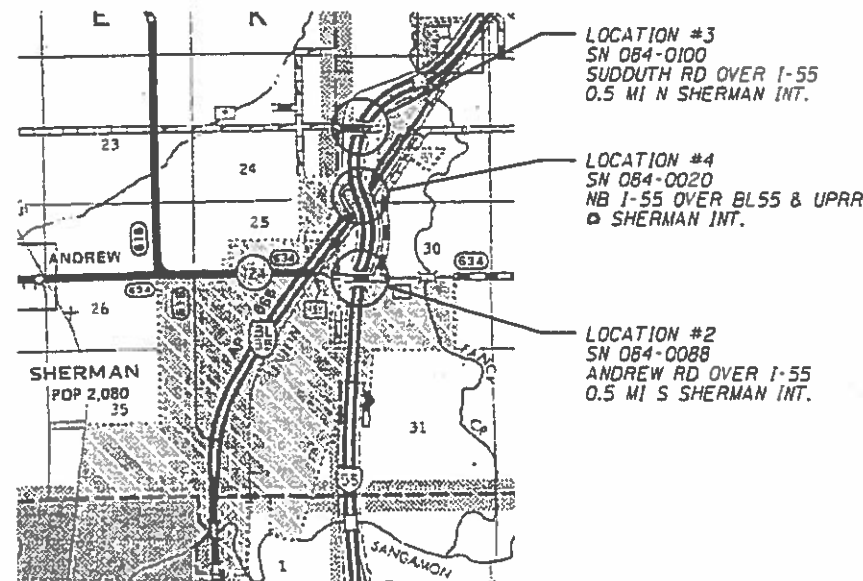


FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAI ROUTE 55 (I-55)  
SECTION D6 BDGE PAINTING 2019  
PROJECT NHPP-V91T(286)  
BRIDGE PAINTING  
SANGAMON COUNTY

C-96-069-19



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 EXCAVATORS  
1-800-892-0123  
OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY - (217) 785-9290

GROSS LENGTH = x.xx FT. = x.xxx MILE  
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug. 14 2019  
[Signature] REGIONAL ENGINEER  
Oct 4 2019  
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT  
Oct 4 2019  
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

CONTRACT NO. 72L33

INDEX OF SHEETS

1 COVER SHEET  
 2 INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES  
 3-4 SUMMARY OF QUANTITIES  
 EXISTING BRIDGE PLANS (FOR INFORMATION ONLY)  
 5-6 LOCATION #1: SN 084-0099  
 7-10 LOCATION #2: SN 084-0088  
 11-13 LOCATION #3: SN 084-0100  
 14-17 LOCATION #4: SN 084-0020

HIGHWAY STANDARDS


000001-07  
 001006  
 701101-05  
 701106-02  
 701400-09  
 701402-12  
 701411-09  
 701446-09  
 701428-01  
 701901-08  
 704001-08  
 782006

GENERAL NOTES:


1. WORK SHALL CONSIST OF BLASTING AND PAINTING STRUCTURAL STEEL AT LOCATIONS DESCRIBED IN THE SPECIAL PROVISIONS. 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 (EXCEPT OVERCOATED AREAS CALLED OUT IN THE SPECIAL PROVISIONS) 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 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COATS SHALL BE AS DESCRIBED IN THE SPECIAL PROVISIONS.
2. THE USE OF AIR MONITORS WILL BE REQUIRED AT ALL LOCATIONS.
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.

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


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EXAMINED JULY 29 20 19  
  
 ENGINEER OF OPERATIONS

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EXAMINED 7-31 20 19  
  
 ENGINEER OF PROJECT IMPLEMENTATION

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EXAMINED JULY 31 20 19  
  
 ENGINEER OF PROGRAM DEVELOPMENT

MODEL: D:\cadd\...  
 FILE NAME: I:\central\OPERATIONS\bridge\bridgeplans\CDN174131 - 105 - Sangamon Ball Mill\bridge.ctb

USLR NAME = dudleybm PLOT SCALE = 100.0000' = 1" in. PLOT DATE = 8/6/2019	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, & SIGNATURES	F.A.J. RTE. 55 SECTION D6 BDGE PAINTING 2019 COUNTY SANGAMON TOTAL SHEETS 17 SHEET NO. 2 CONTRACT NO. 72L33 ILLINOIS FED. AID PROJECT
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B.M. #1  CUT on N. Hdwl. of culv.  
14' LT. Sta. 99+02 (CH.41) Elev 590.99

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84-4	1HB	SANGAMON	70	19
F.A.I. 55				9 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT: I-55-3(57)90	

**GENERAL NOTES**

Coarse aggregate to be used in parapet handrails and end posts 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 52# 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 Rivet 3/4", Rivets 1/2", 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. Wt. = 1590 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.

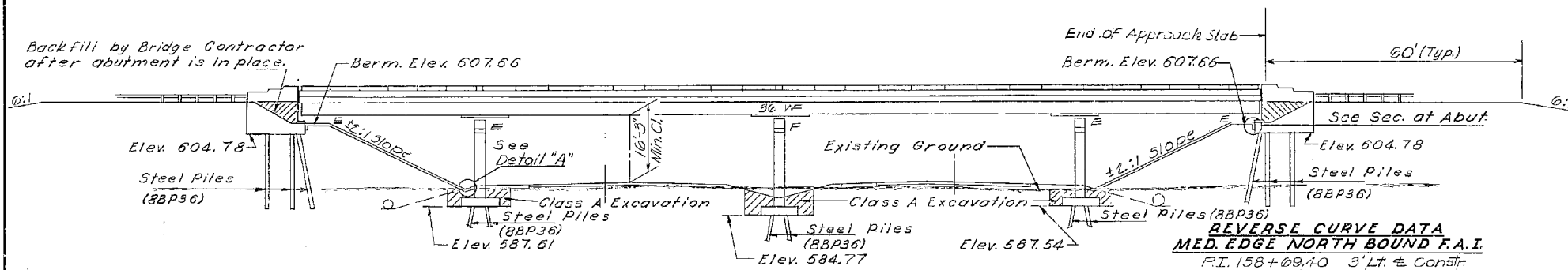
The Contractor shall drive two steel test piles one each at the West Abutment and Pier 2, in a permanent location, as directed by the Engineer before ordering the remainder of piles. Excavation for portions of structures in the embankments shall not be classified.

PERMANENT FORMS WILL NOT BE PERMITTED IN FORMING THE CONCRETE DECK.  
FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 4' OF THE SPAN EACH WAY FROM PIPE SUPPORTS ON 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.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excavation for Struct.	Cu. Yds.		132	132
Class X Concrete	Cu. Yds.	210.0	201.7	411.7
Structural Steel	Lbs.	18,750		18,750
Aluminum Handrail	Lin. Ft.	453		453
Reinforcement Bars	Lbs.	57,690	18,990	76,680
Steel Piles (8BP36)	Lin. Ft.		1770	1770
Test Piles Steel (8BP36)	Ea.		2	2
Name Plates	Ea.		2	2
Slope Wall (4")	Sq. Yds.			392
Protective Coat	Sq. Yds.	930		930
Bridge Seat Sealant	L. S.		1	1

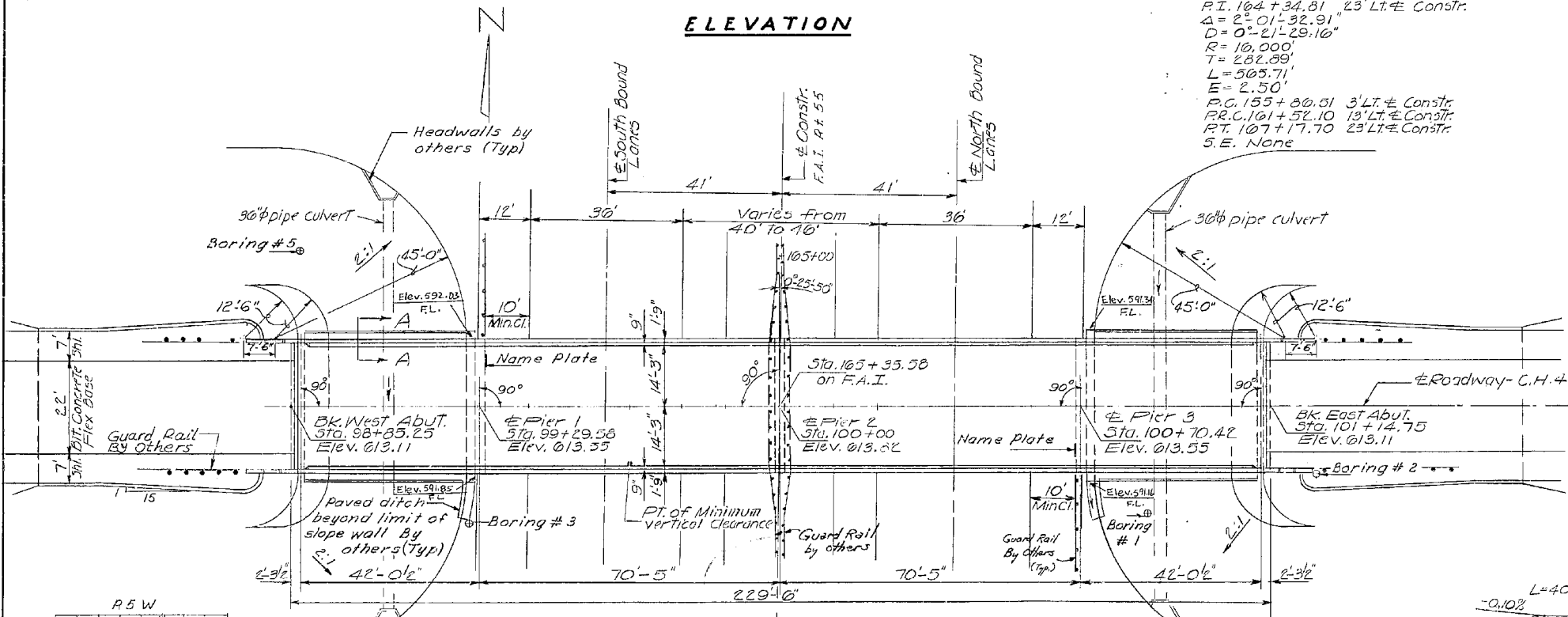
\*At abutments only.



**ELEVATION**

**REVERSE CURVE DATA  
MED. EDGE NORTH BOUND F.A.I.**

P.I. 158+09.40 3' LT. & Constr.  
P.T. 104+34.81 23' LT. & Constr.  
Δ = 2° 01' 32.91"  
D = 0° 21' 29.10"  
R = 10,000'  
T = 282.89'  
L = 503.71'  
E = 2.50'  
P.C. 155+80.51 3' LT. & Constr.  
P.R.C. 101+52.10 13' LT. & Constr.  
P.T. 107+17.70 23' LT. & Constr.  
S.E. None

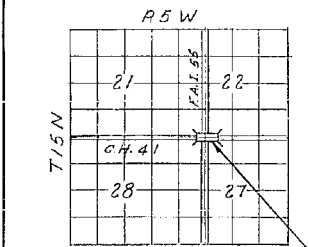


**PLAN**

**DETAIL-A**

**PROFILE S.B.F.A.I.**

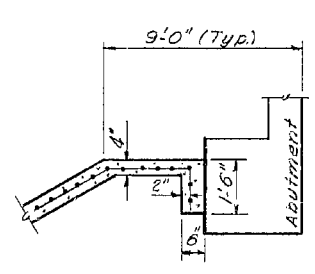
**PROFILE N.B.F.A.I.**



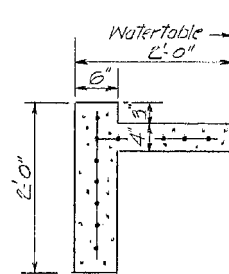
**LOCATION SKETCH**

**REVERSE CURVE DATA  
MED. EDGE SOUTH BOUND F.A.I.**

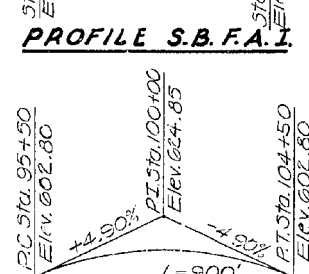
P.I. 158+23 37' Rt. & Constr.  
P.T. 102+96.31 23' Rt. & Constr.  
Δ = 1° 41' 41.02"  
D = 0° 21' 29.26"  
R = 10,000'  
T = 230.67'  
L = 473.30'  
E = 1.76'  
P.C. 155+80.51 37' Rt. & Constr.  
P.R.C. 100+59.74 30' Rt. & Constr.  
P.T. 103+32.98 23' Rt. & Constr.  
S.E. None



**SEC. THRU ABUT.**



**SEC. A-A**



**PROFILE C.H. 41**

**DESIGN STRESSES**

fc = 1400 psi. (Super & Sub.)  
fs = 20,000 psi. (Reinf.)  
fs = 20,000 psi. (Struct.)  
vc = 75 psi. (Figs.)  
n = 10

Allowable  $\epsilon \Delta \frac{L}{1005}$

LOADING HS 20-44

STATION 165+35.58  
BUILT 196 BY  
STATE OF ILLINOIS  
F.A.I. RT. 55 SEC. 84-4-1HB  
F.A. PROJ. I-55-3 (57)  
LOADING HS 20

**NAME PLATE**  
(See Std. 2113-1)

PROJ. I-55-3(57)90  
**GENERAL PLAN & ELEVATION**  
**C.H. 41 OVER F.A.I. 55**  
**F.A.I. RT. 55 SEC. 84-4-1HB**  
**SANGAMON COUNTY**  
**STATION 165+35.58**

DESIGNED	J. E. Geyer	EXAMINED	JAN. 27 1966
CHECKED	J. W. Clark	PASSED	H. J. Altman
DRAWN	J. Kessler	APPROVED	D. E. Staff
CHECKED	J. W. Clark		

Rev. 9-22-67 S.E. Class X Conc. 412.0 Cu.Yds. to 411.7 Cu.Yds. total  
2 Piles 72' 3" H. to 36' 0" H. total

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 084-0099  
(FOR INFORMATION ONLY)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	5
			CONTRACT NO. 72L33	

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84-4	HB	SANGAMON	70	21
SHEET NO. 3				
9 SHEETS				

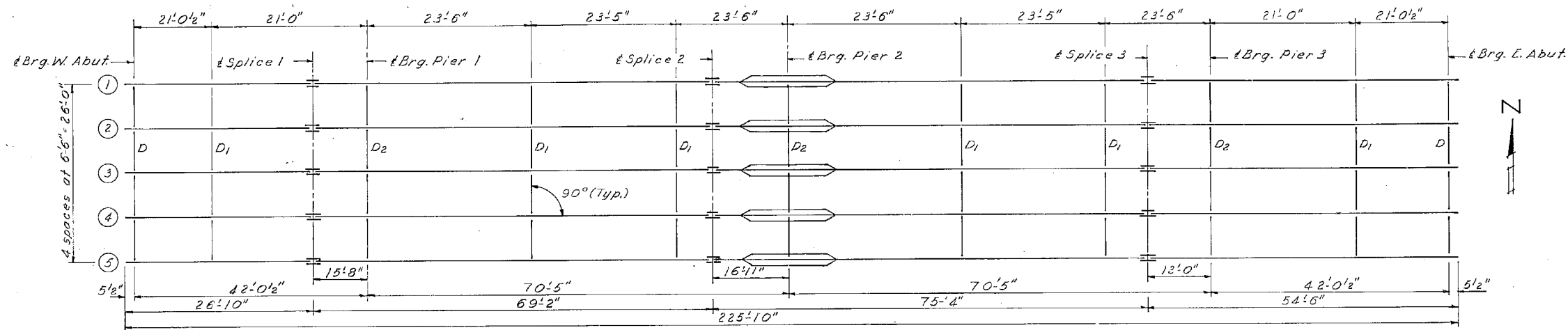
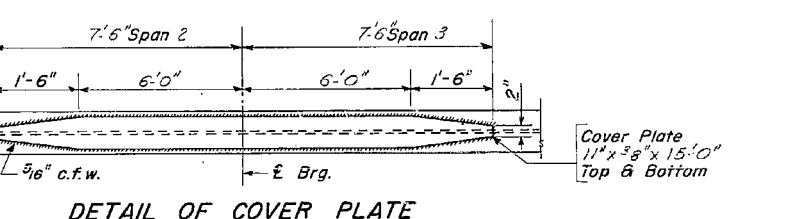
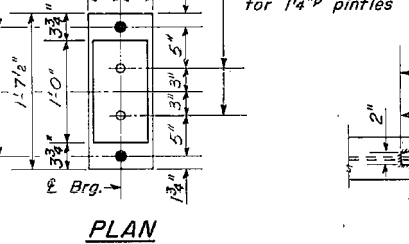
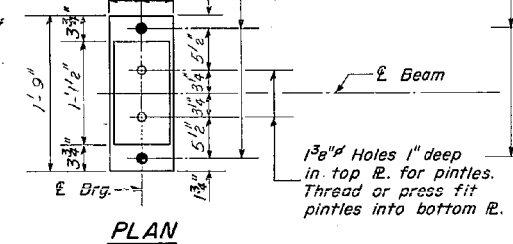
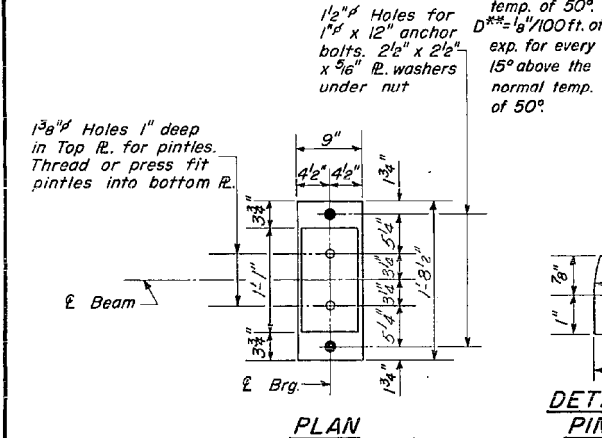
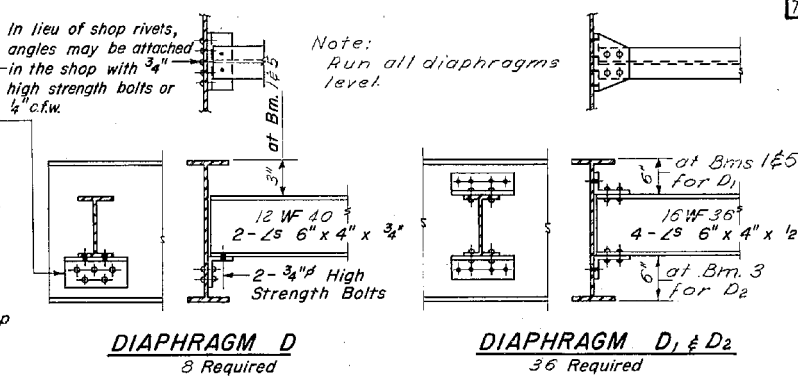
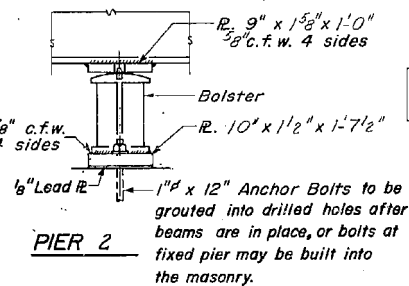
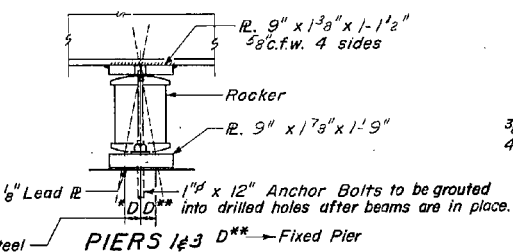
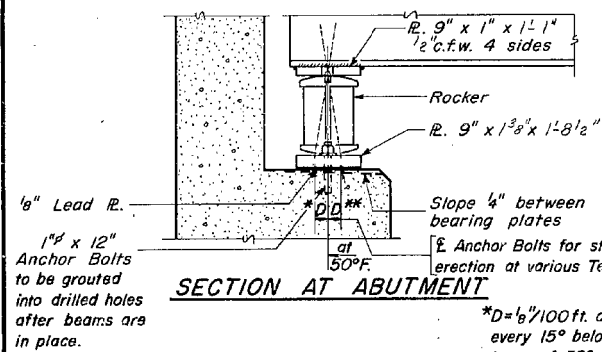


TABLE OF MOMENTS & REACTIONS-INT. BMS

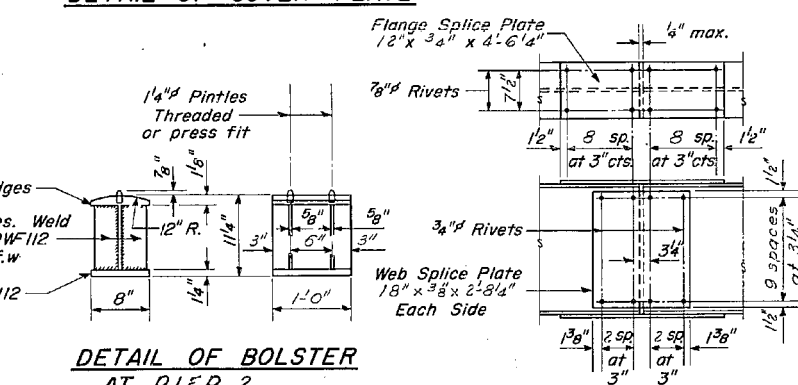
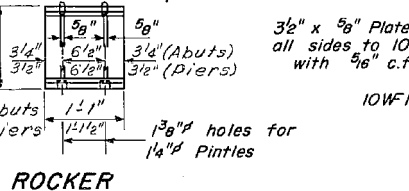
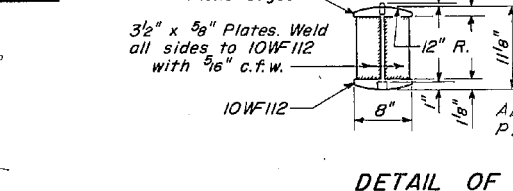
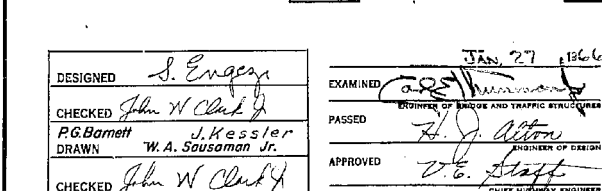
	Moments - Ft. Kips				Reactions - Kips		
	.4-Sp.1	Pier 1	.5-Sp.2	Pier 2	Abut. Piers	Pier 2	Pier 3
D.L.	72.0	324.0	204.0	483.0	13.2	57.0	67.7
L.L.	239.0	284.1	342.0	350.3	32.3	41.2	44.1
Imp.	71.0	79.5	89.0	91.1	9.7	11.5	11.5
Total	382.0	687.6	635.0	924.4	55.2	109.7	123.3



ELEVATION TOP OF WF

For fabrication only

Beam No.	Bm 1&5	Bm 2&4	Bm 3
Abut. Piers	612.37	612.47	612.57
Splice 1	612.59	612.69	612.79
Pier 1	612.68	612.78	612.88
Splice 2	612.98	613.08	613.18
Pier 2	612.94	613.04	613.12
Splice 3	612.81	612.91	613.01
Pier 3	612.71	612.81	612.91
Abut. Piers	612.37	612.47	612.57



STRUCTURAL STEEL  
F.A.I. RT. 55 SEC. 84-4-IHB  
SANGAMON COUNTY  
STATION 165+35.58

DESIGNED	J. Engen	EXAMINED	JAN. 27 1966
CHECKED	John W. Clark Jr.	PASSED	H. J. Altman
DRAWN	W. A. Sausaman Jr.	APPROVED	V. E. Staff
CHECKED	John W. Clark Jr.		

I-2-C 7-2-62 Rev. 11-9-62 Rev. 8-16-63 Rev. 12-10-63

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

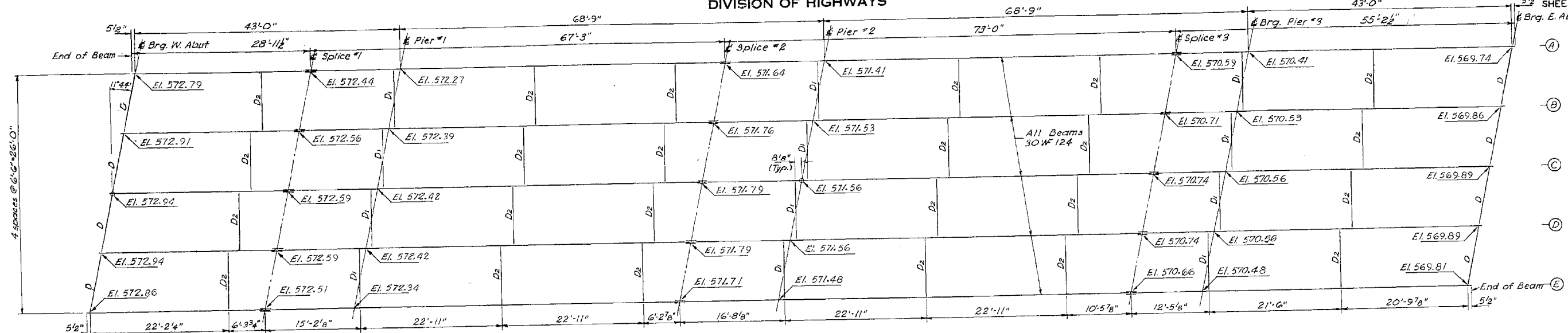
EXISTING PLANS, SN 084-0099  
(FOR INFORMATION ONLY)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	6
CONTRACT NO. 72L33				



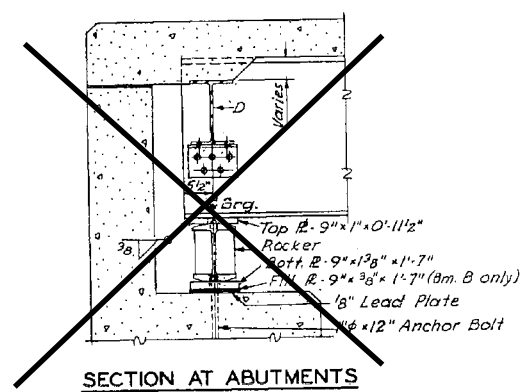
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	84-2HB-2	Sangamon	37	11
ILLINOIS PROJECT				

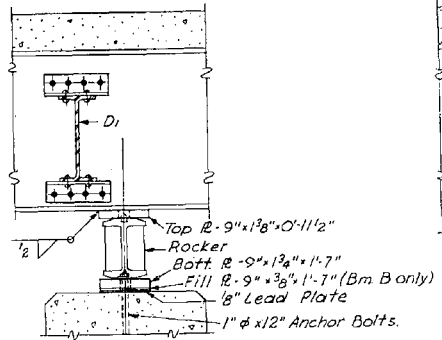


STRUCTURAL STEEL PLAN

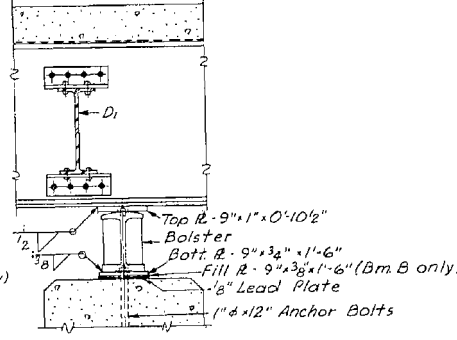
Note: All elevations shown above are to top of Beam at # Brg. or # Splice.



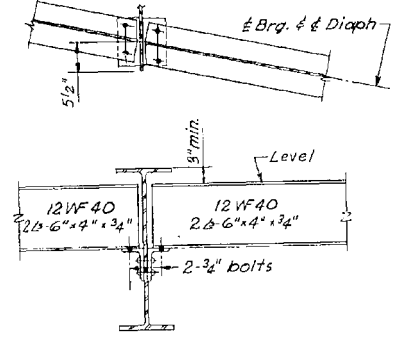
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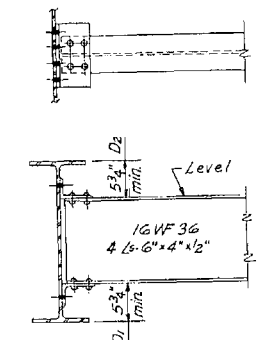
PIER 1 & 3



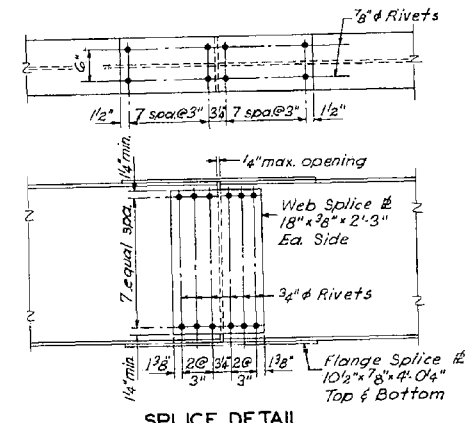
PIER 2



DIAPHRAGM D



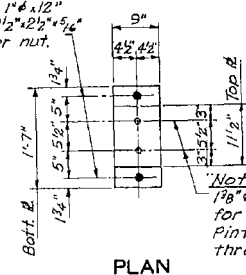
DIAPHRAGM D1 & D2



SPlice DETAIL

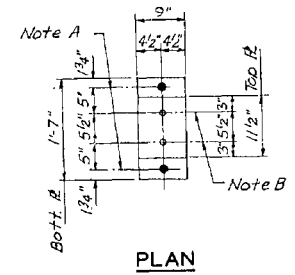
Note A

1 3/8" holes for 1" x 12" Anchor Bolts, 2 1/2" x 2 1/2" x 5/8" R Washer under nut.

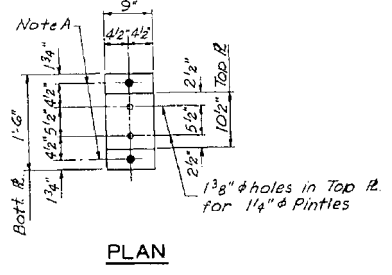


PLAN

Note B  
1 3/8" holes in Top R. for 1 1/2" x 1 1/2" Pintles, 1 1/4" x 1 1/2" thread in Bottom R., thread or press fit.

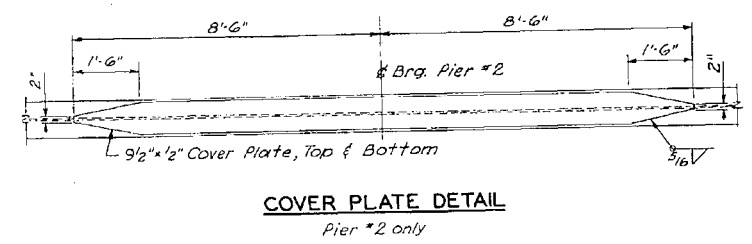


PLAN



PLAN

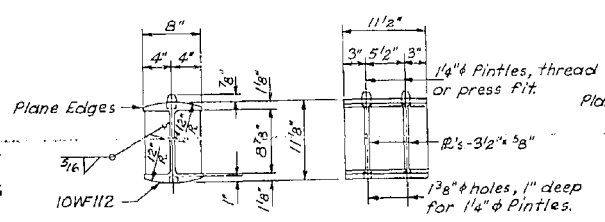
Estimated weight of bearings complete = 6430 lbs.



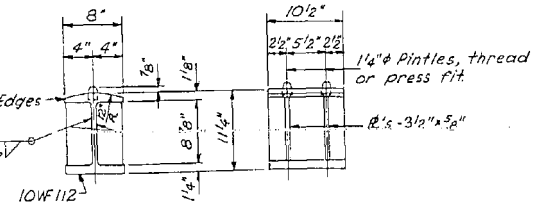
COVER PLATE DETAIL

Pier #2 only

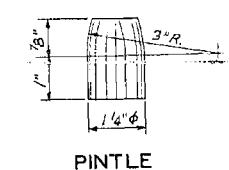
Note: The Structural Steel for all cover plates and the WF sections to which they are welded, shall conform to the Specifications for Steel for Bridges and Buildings, A.S.T.M. Designation: A-373. All other Structural Steel may conform to A.S.T.M. Designation: A-7.



ROCKER DETAILS



BOLSTER DETAILS



PINTLE

DESIGNED	VFS	EXAMINED	TD
CHECKED	AE	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURE
DRAWN	T.E.B.	APPROVED	SIGNATURE OF DESIGNER
CHECKED	VFS		CHIEF HIGHWAY ENGINEER

STRUCTURAL STEEL  
S.A. RT. 1A OVER F.A.I. RT. 55  
PROJECT  
F.A.I. ROUTE 55 SECTION 84-2HB-2  
SANGAMON COUNTY  
STATION 374+31.27

MODEL: Default  
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USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/6/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 084-0088  
(FOR INFORMATION ONLY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	8
CONTRACT NO. 72L33				
ILLINOIS FED. AID PROJECT				

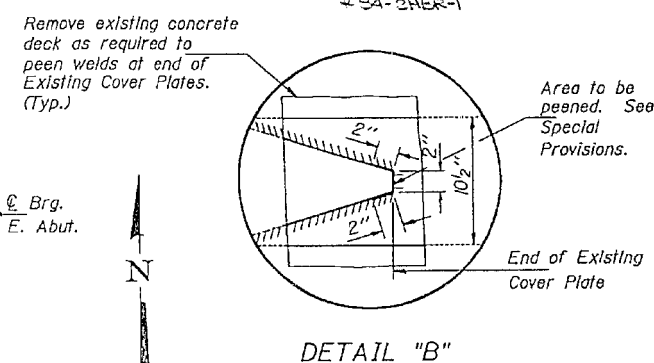
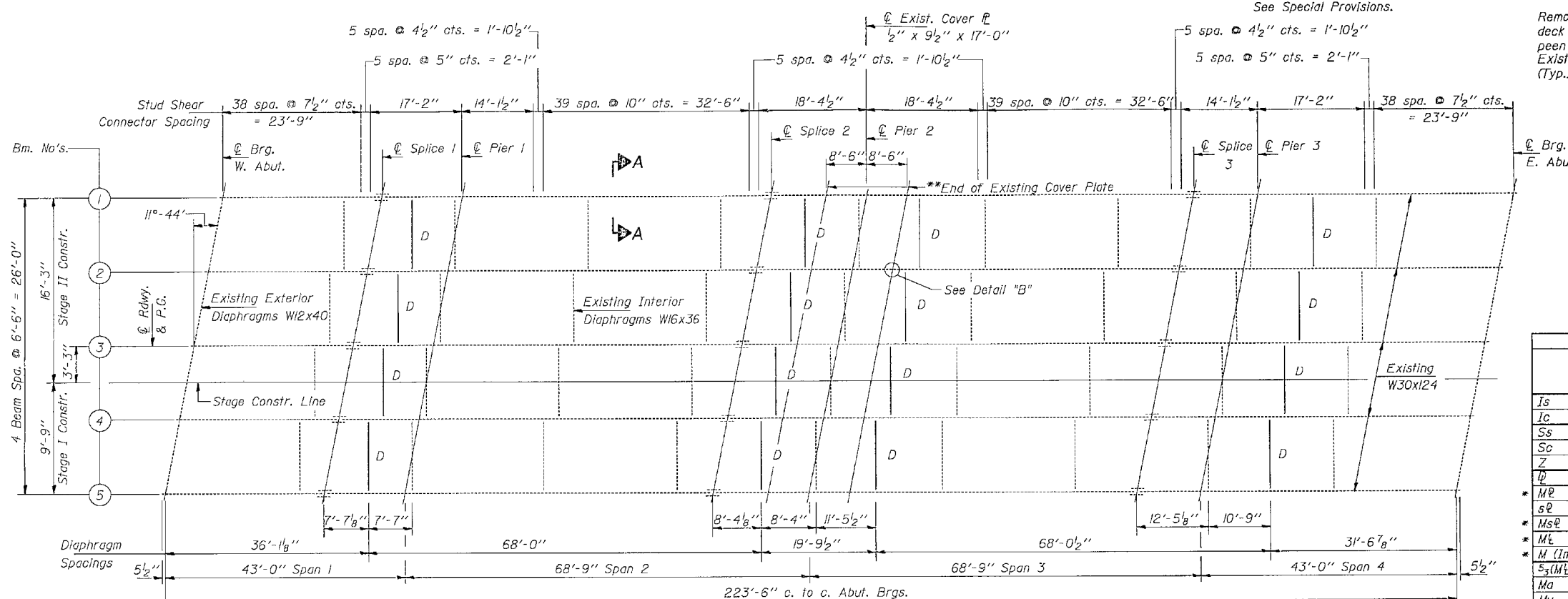


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\*\*Welds at end of Existing Cover Plates to be peened. (Typ.)  
See Special Provisions.

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.I. 55	*	SANGAMON	30	18
FILE NO.	BLANKS	FIELD PREP.		
			34-2HR-1	

SHEET NO. 9  
15 SHEETS

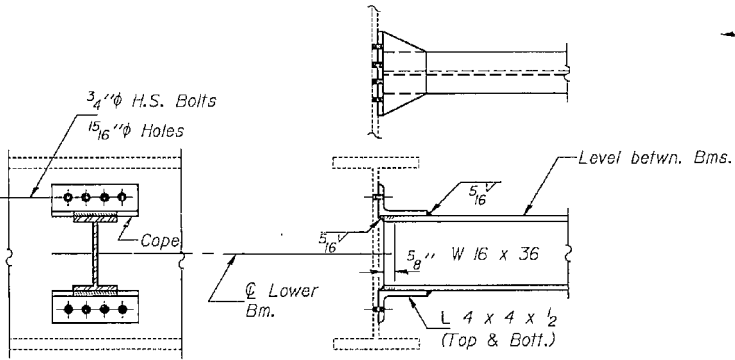
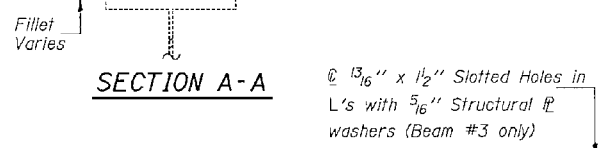
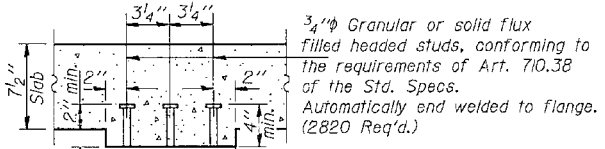


	0.4 Sp. #1 or 0.6 Sp. #4	Piers #1 & #3	.5 Span #2 & #3	Pier #2
<i>I<sub>s</sub></i> (in <sup>4</sup> )	5360	5360	5360	7594
<i>I<sub>c</sub></i> (in <sup>4</sup> )	14404		14404	
<i>S<sub>s</sub></i> (in <sup>3</sup> )	355	355	355	487
<i>S<sub>c</sub></i> (in <sup>3</sup> )	524		524	
<i>Z</i> (in <sup>3</sup> )		408		554
<i>M<sub>p</sub></i> (K/ft.)	0.778	1.107	0.778	1.107
<i>s<sub>p</sub></i> (K/ft.)	76.1	326.8	158.1	495.7
<i>M<sub>s</sub></i> (K)	0.329		0.329	
<i>M<sub>t</sub></i> (K)	38.8		84.7	
<i>M<sub>l</sub></i> (K)	250.3	205.4	385.6	280.6
<i>M<sub>imp</sub></i> (K)	74.6	57.1	99.5	72.4
<i>S<sub>3</sub>(M<sub>l</sub>+I)</i> (K)	541.5	437.5	808.5	588.3
<i>M<sub>a</sub></i> (K)	853.3	993.6	1366.7	1409.2
<i>M<sub>u</sub></i> (K)	2076.4	1122.0	2076.4	1522.7
<i>f<sub>s</sub> non-comp</i> (k.s.i.)	2.57	11.05	5.34	12.21
<i>f<sub>s</sub> comp</i> (k.s.i.)	0.89		1.94	
<i>f<sub>s</sub> (L+I)</i> (k.s.i.)	12.40	14.79	18.52	14.50
<i>f<sub>s</sub> (Overload)</i> (k.s.i.)	15.86	25.84	25.80	26.71
<i>f<sub>s</sub> (Total)</i> (k.s.i.)	20.62	33.59	33.54	34.72
<i>VR</i> (K)	47.5		41.7	

	Abuts.	Piers #1 & #3	Pier #2
<i>R<sub>p</sub></i> (K)	16.2	67.0	81.0
<i>R<sub>l</sub></i> (K)	32.0	40.5	44.4
<i>Imp.</i> (K)	9.5	11.2	11.5
<i>R (Total)</i> (K)	57.7	118.7	136.9

*I<sub>s</sub>* and *S<sub>s</sub>* are the moment of inertia and section modulus of the steel section used in computing *f<sub>s</sub>* (Total & Overload).  
*I<sub>c</sub>* and *S<sub>c</sub>* are the moment of inertia and section modulus of the composite section used in computing *f<sub>s</sub>* (Total & Overload).  
*VR* is the maximum Live Load + Impact shear range in span.  
*Z* is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.  
*M<sub>a</sub>* (Applied Moment) = 1.3(*M<sub>p</sub>* + *M<sub>s</sub>* + *S<sub>3</sub>*(*M<sub>l</sub>* + *I*)).  
*M<sub>u</sub>* is the Full Plastic Moment Capacity for Compact, Braced section.  
*f<sub>s</sub>* (Overload) is the sum of the stresses due to *M<sub>p</sub>* + *M<sub>s</sub>* + *S<sub>3</sub>*(*M<sub>l</sub>* + *I*).  
*f<sub>s</sub>* (Total) (Non-compact section) is the sum of the stresses due to 1.3(*M<sub>p</sub>* + *M<sub>s</sub>* + *S<sub>3</sub>*(*M<sub>l</sub>* + *I*)).  
 \*Service Load

STRUCTURAL STEEL  
F.A.I. RT. 55 SEC. 84-2HBR-1  
SANGAMON COUNTY  
STATION 374+31.27



DESIGNED: *Frank J. Buglata*  
 CHECKED: *Shale E. Morgan*  
 DRAWN: *R. Sommer*  
 CHECKED: *R.E.A.*

EXAMINED: *Dr. J. Kaspar*  
 PASSED: *James J. Kasper*  
 APPROVED: *R.E.A.*

Jan 18 1989

MODEL: Default  
FILE NAME: \\CENTRALDB\OPERATIONS\Bridges\Bridges\CAD\72L33 - 155\_Sangamon\_paint\stahreec.dgn

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/6/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 084-0088  
(FOR INFORMATION ONLY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	9
			CONTRACT NO. 72L33	
		ILLINOIS	FED. AID PROJECT	

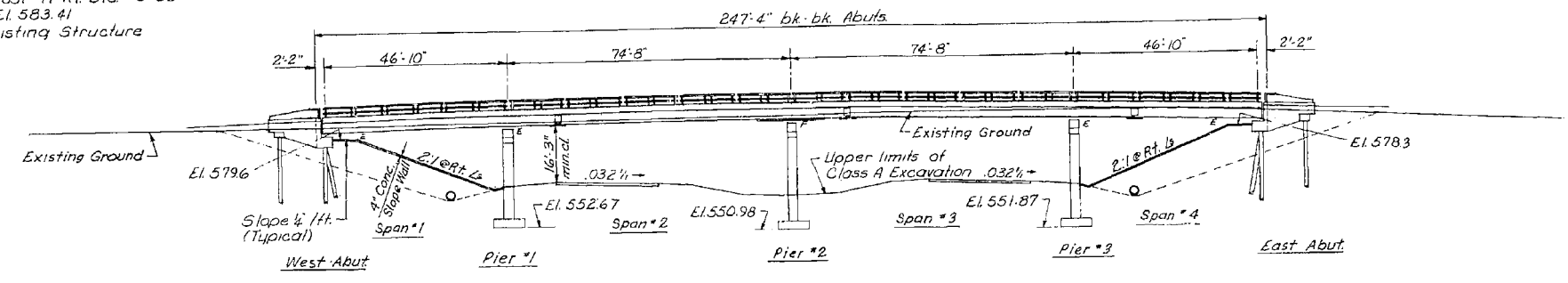


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 55	24B-1	Sangamon	81	20
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

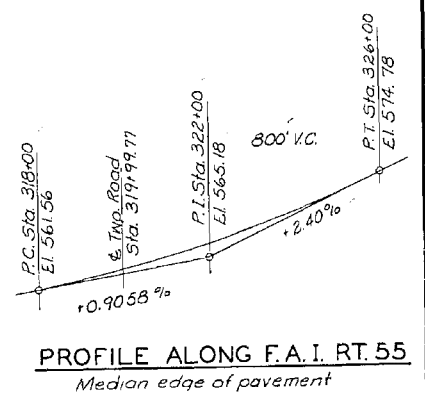
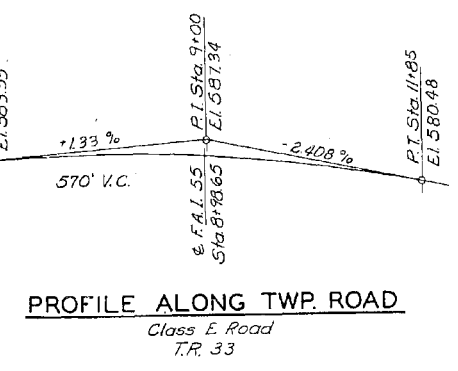
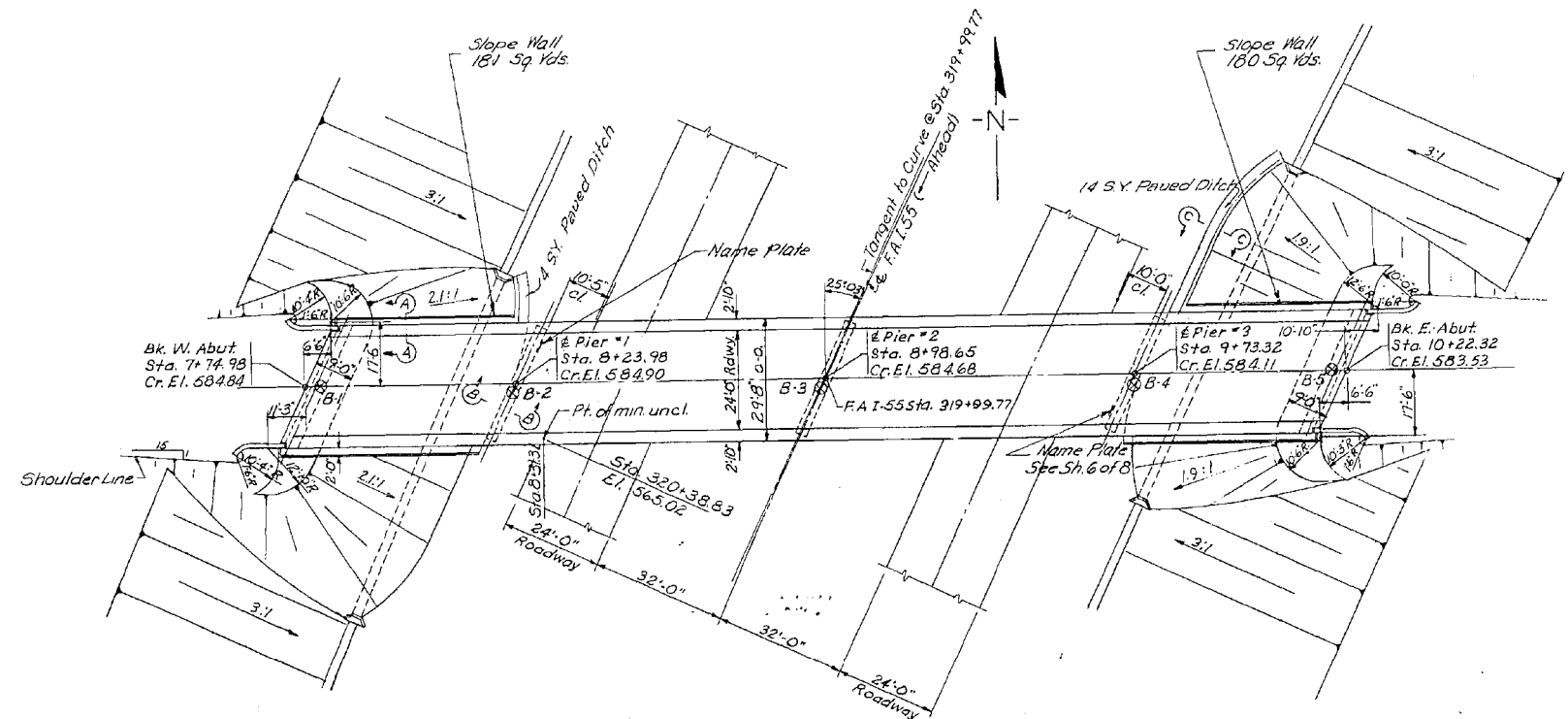
SHEET 1 OF 8

B.M. - R.R. Spike S. Side of P.P.  
L.I. Sta. 12+57 El. 572.78  
B.M. - R36, 1934 Tablet in Conc.  
Post 17' R.I. Sta. +0+03  
El. 583.41  
No Existing Structure



**GENERAL NOTES**

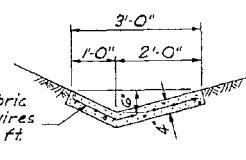
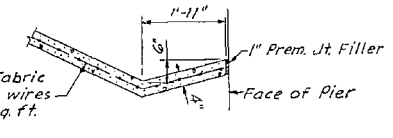
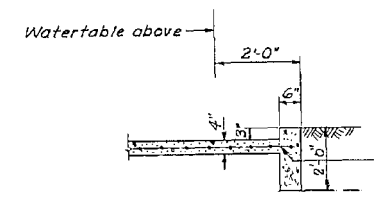
Class X Concrete shall be used throughout except in handrail end posts.  
Handrail Concrete shall be used in the handrail end posts.  
The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications, and shall be poured in one continuous operation between construction joints.  
Rivets 3/4"  $\phi$ , open holes 13/16"  $\phi$ , unless noted.  
All holes for splices shall be punched 11/16"  $\phi$  and reamed to proper size (13/16"  $\phi$  in web and 15/16"  $\phi$  in flange) with all stringers assembled in the shop in proper position. Leave assembled in shop for inspection.  
Except as otherwise provided, all Structural Steel and Metal Handrail shall receive one (1) shop coat of red lead paint and two (2) field coats of aluminum paint. See Art. 56.1 through 56.5 inclusive, of the Standard Specifications.  
The Contractor shall drive two concrete test piles one in each abutment in permanent locations as directed by the Engineer, before casting or ordering the remainder of the piles.



**TOTAL BILL OF MATERIAL**

ITEM	SUPER	SUB	TOTAL
Class X Concrete	Cu. Yds. 1979	211.4	409.3
Handrail Concrete	Cu. Yds. 2.9		2.9
Reinforcement Bars	Lbs. 37290	16,200	53,490
Furnishing & Erecting Structural Steel	Lbs. 190,420		190,420
Furnishing & Erecting Metal Handrail	Lin. Ft. 490		490
Name Plates	Each 2		2
Concrete Piles	Lin. Ft. 324		324
Test Piles (Concrete)	Each 2		2
Slope Wall	Sq. Yds. 361		361
Class A Excavation for Structures	Cu. Yds. 457		457
Bridge Deck Sealant	Lump Sum 1		1

For Boring Data see Sheet 8 of 8



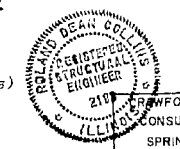
**CURVE DATA**

$\Delta = 87^\circ 30' \text{ Lt.}$   
 $D = 2^\circ 00'$   
 $R = 2864.79'$   
 $L = 4375.00'$   
 $E = 1101.06'$   
 $P.I. Sta. 323+95.44$   
 $P.C. Sta. 296+53.0$   
 $P.T. Sta. 340+28.0$   
 $S.E. = 0.032 \text{ per ft. of width}$   
 $\text{attained in } 190' - \frac{1}{2} \text{ on tangent, } \frac{1}{2} \text{ on curve.}$

**DESIGN STRESSES**

$f_c = 1,400 \text{ p.s.i.}$   
 $f_s = 20,000 \text{ p.s.i. (Reinf.)}$   
 $f_s = 18,000 \text{ p.s.i. (Struct.)}$   
 $v = 75 \text{ p.s.i. (Pier Footings)}$   
 $n = 10$

Design Footing Pressure for Piers = 2.3 k.s.f. Ave., 3.2 k.s.f. Max.



GENERAL PLAN & ELEVATION  
TWP. ROAD OVER F.A.I. RT. 55  
PROJECT I-55-3 (35)104  
F.A.I. ROUTE 55 SECTION 84-2HB-1  
SANGAMON COUNTY  
STATION 319+99.77

CRAWFORD, MURPHY & TILLY  
CONSULTING ENGINEERS  
SPRINGFIELD, ILLINOIS

HANSON, COLLINS & RICE  
CONSULTING ENGINEERS  
SPRINGFIELD, ILLINOIS

DESIGNED	V.F.S.	EXAMINED	ED
CHECKED	R.A.C.	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	D.J.M.	APPROVED	ENGINEER OF DESIGN
CHECKED	V.F.S.	APPROVED	CHIEF HIGHWAY ENGINEER

STATION 319+99.77  
BUILT 19 BY  
STATE OF ILLINOIS  
F.A.I. RT. 55 SEC. 84-2HB-1  
F.A. PROJ. I-55-301  
LOADING H15-512

**LETTERING FOR NAME PLATE**

See Std. 2113  
Rev. 1-25-61 - Curb&P Wall Added  
Br Deck Seal.

Loading H15-512 with 20#/sq. ft. future W.S.

MODEL: Default  
FILE NAME: C:\CONTRAC\OPERATIONS\Bridges\Bridges\CAD\72L33-155\_Sangamon\_plant\sbaretree.dgn

USER NAME	= dudleybm
PLOT SCALE	= 100.0000' / in.
PLOT DATE	= 8/6/2019

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 084-0100  
(FOR INFORMATION ONLY)

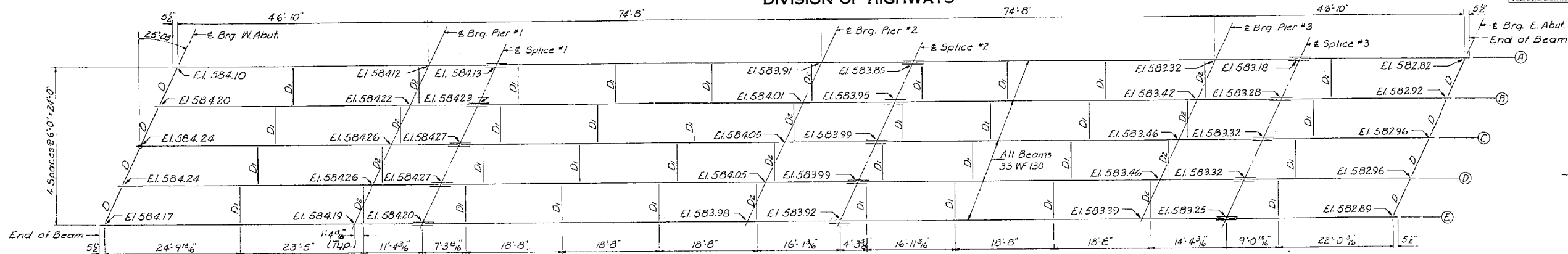
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	11
CONTRACT NO. 72L33				
ILLINOIS FED. AID PROJECT				

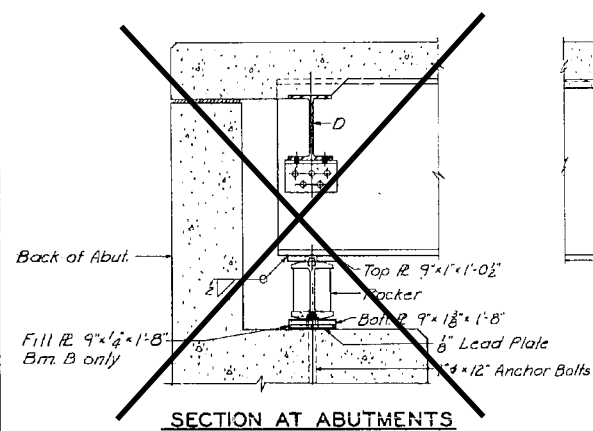
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 55	84-2HB-1	Sangamon	81	22

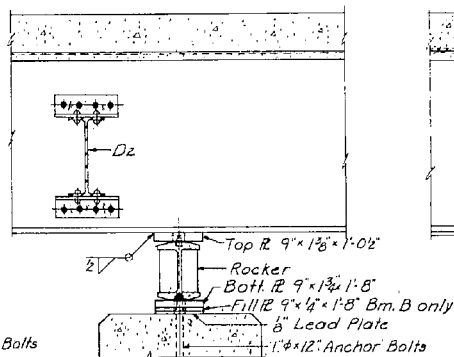
SHEET 3 OF 8



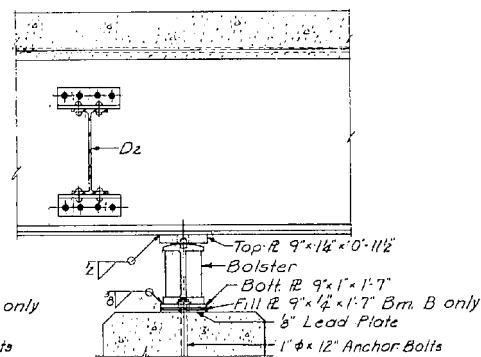
STRUCTURAL STEEL PLAN



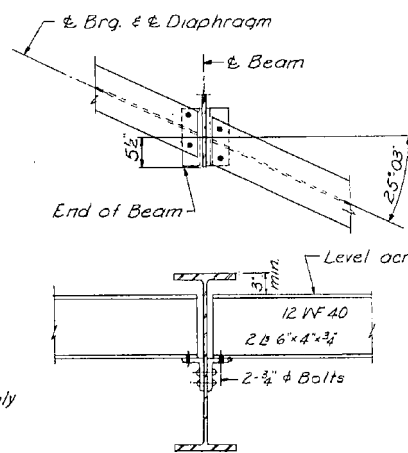
SECTION AT ABUTMENTS



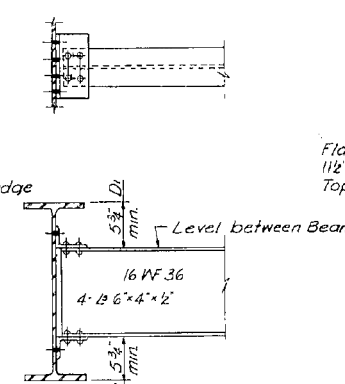
PIERS 1 & 3



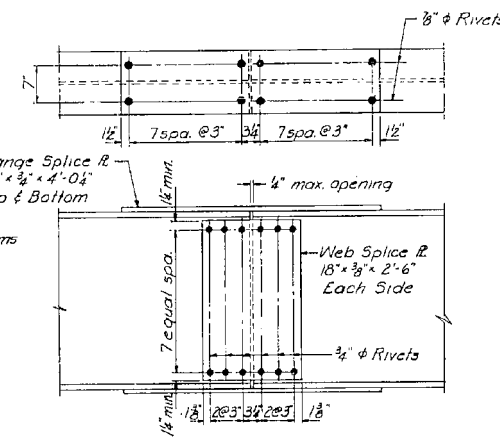
PIER 2



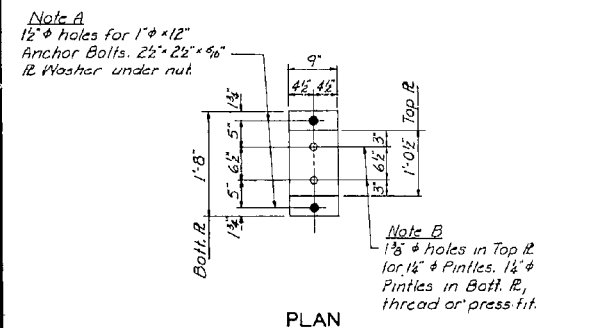
DIAPHRAGM D



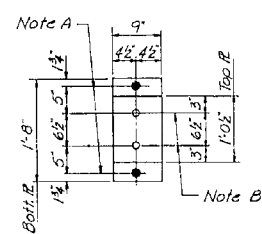
DIAPHRAGMS D1 & D2



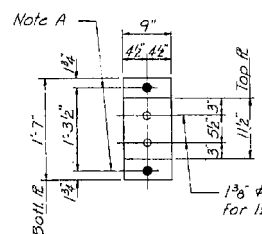
SPICE DETAIL



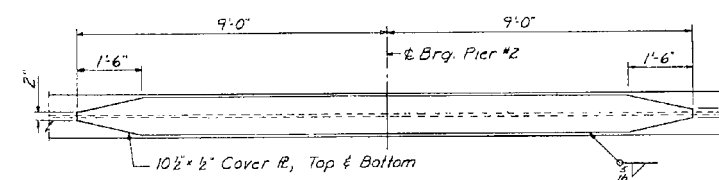
PLAN



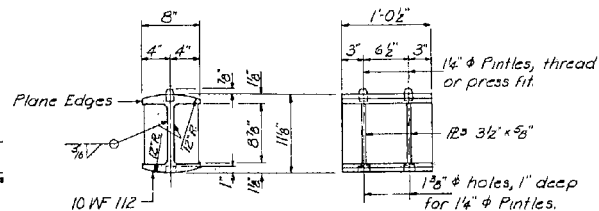
PLAN



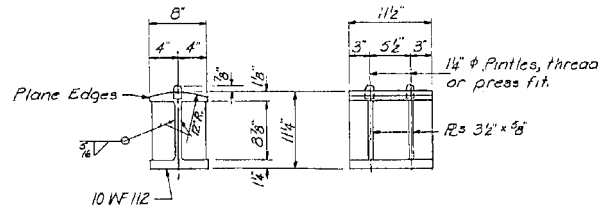
PLAN



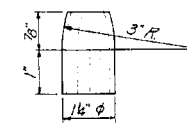
COVER PLATE DETAIL  
Pier #2 only



ROCKER DETAIL



BOLSTER DETAIL



PINTLE

Note: The Structural Steel for all cover plates and the WF sections to which they are welded, shall conform to the Specifications for Steel for Bridges and Buildings, A. S. T. M. Designation: A-373. All other Structural Steel may conform to A. S. T. M. Designation: A-7.

STRUCTURAL STEEL  
TWP. ROAD OVER F.A.I. RT. 55  
PROJECT  
F.A.I. ROUTE 55 SECTION 84-2HB-1  
SANGAMON COUNTY  
STATION 319 + 99.77

DESIGNED	V.F.S.	EXAMINED	19
CHECKED	R.D.C.	PASSED	ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
DRAWN	D.J.M.	APPROVED	ENGINEER OF BRIDGES
CHECKED	V.F.S.	APPROVED	CHIEF HIGHWAY ENGINEER

USER NAME	= dudleybm	DESIGNED	-	REVISED	-
PLOT SCALE	= 100.0000' / in.	DRAWN	-	REVISED	-
PLOT DATE	= 8/6/2019	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

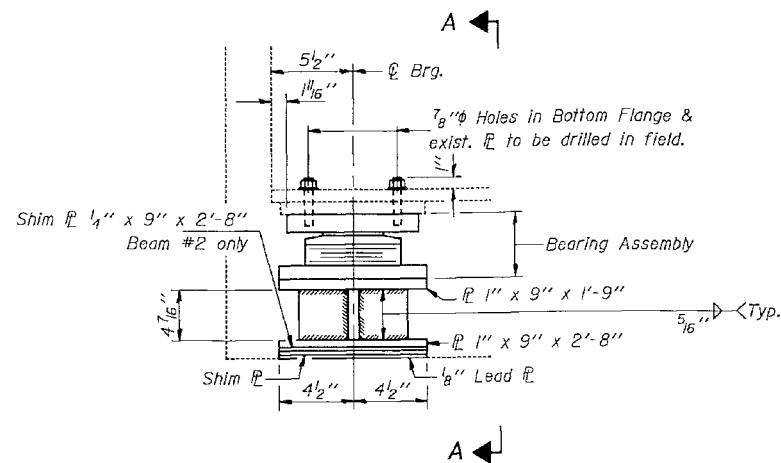
EXISTING PLANS, SN 084-0100  
(FOR INFORMATION ONLY)

SCALE: SHEET OF SHEETS STA. TO STA.

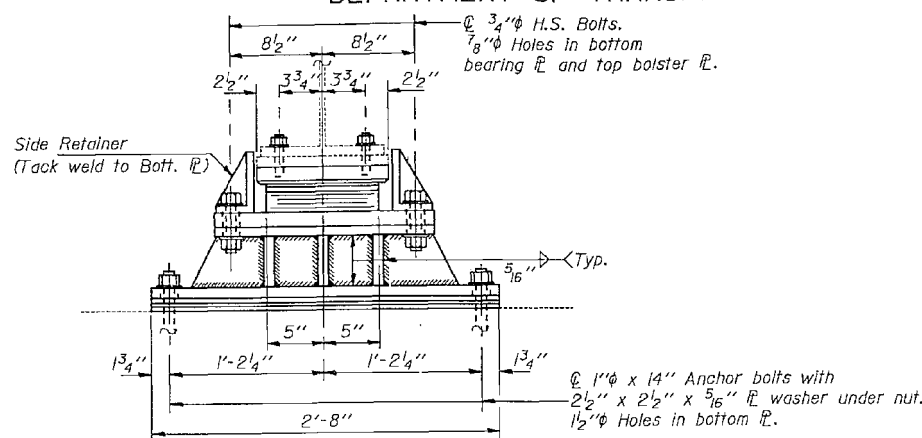
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	12
				CONTRACT NO. 72L33
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

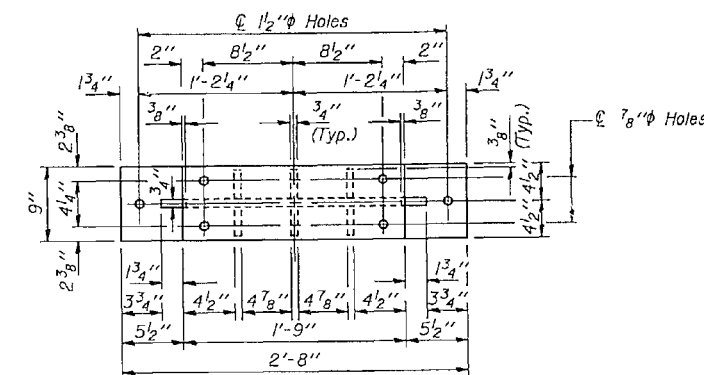
ROUTE NO.	SECTION	COUNTY	STATION	SHEET	SHEET NO. 12
F.A.I. 55	21182	SANGAMON	31	21	17 SHEETS
FED. AID DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			



ELEVATION AT ABUT.



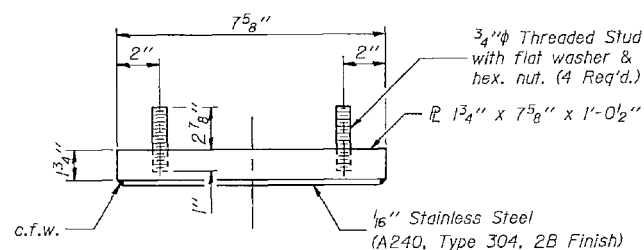
SECTION A-A



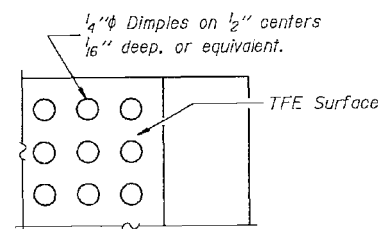
BOLSTER PLAN

Note: For anchor bolt installation details see sheet #17 of 17.

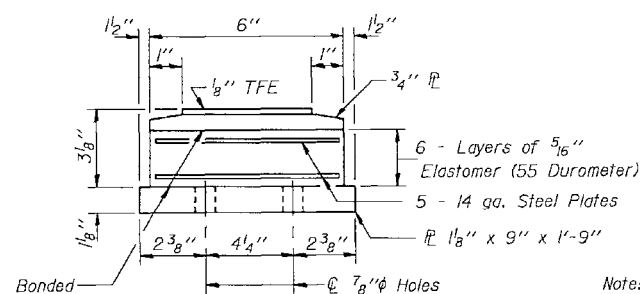
TYPE II TFE ELASTOMERIC EXP. BRG.



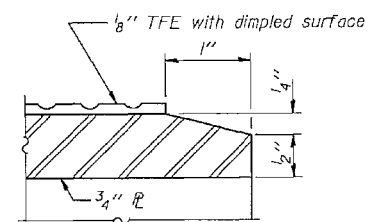
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE

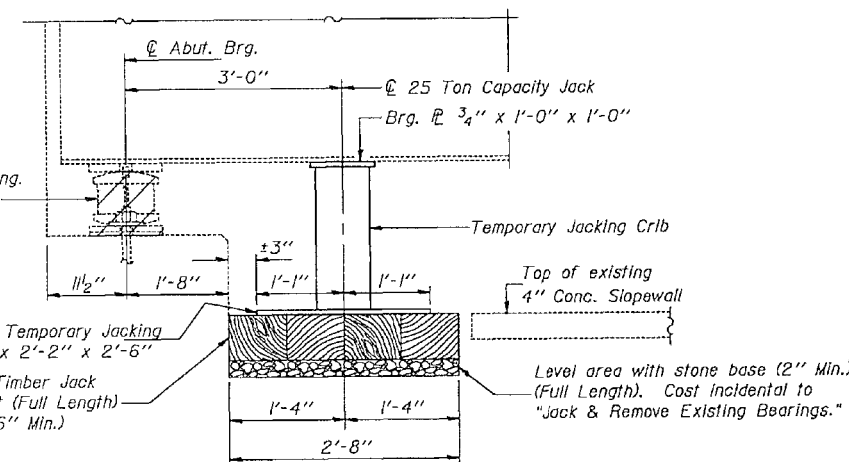


BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

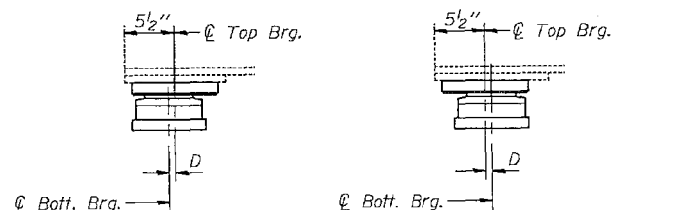
Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



JACK AND REMOVE EXISTING BEARINGS

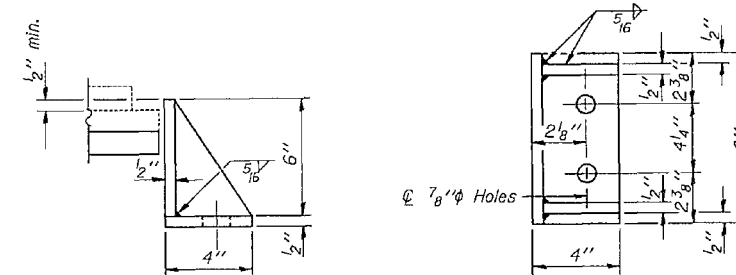
(Dimensions are at Rt. L's)

Notes: Jacking, cribbing, and bearing replacement shall occur under Stage Construction with a maximum lift of 1/8".  
The maximum dead load reaction per bearing at each abutment is 18.0 kips. A 2'-10" x 33'-0" portion of the existing 4" Concrete Slapewall shall be removed to place Heavy Timber Jack Support.  
After new bearings are in place, the removed portion of the 4" Concrete Slapewall is to be replaced. Cost of removing and replacing slapewall is incidental to "Jack & Remove Existing Bearings."



SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. (20 Required)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	10

BEARING DETAILS  
F.A.I. RT. 55 SEC. 84-2HBR  
SANGAMON COUNTY  
STATION 319+99.7

DESIGNED	Shirley S. Maguire
CHECKED	Stacy J. Humphrey
DRAWN	R. Doty
CHECKED	SEM R.E.A.

EXAMINED	John R. Kaspar	12/18/89
PASSED	James J. Kuyburt	
APPROVED		

I-2-E2 12-1-83

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 084-0100  
(FOR INFORMATION ONLY)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	13
CONTRACT NO. 72L33				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



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

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 84-2VB	84-2VB	Sangamon	17	13
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SHEET 1 OF 13

B.M. 3-A Chiseled "a" Top So.  
end E. Hdw. Lt. Sta 311+23  
(existing State Sta. along U.S. 66)  
El. 573.36  
No existing structure

North Embankment  
23,928 Cu. Yds.  
Earth Excavation  
28,386 Cu. Yds.

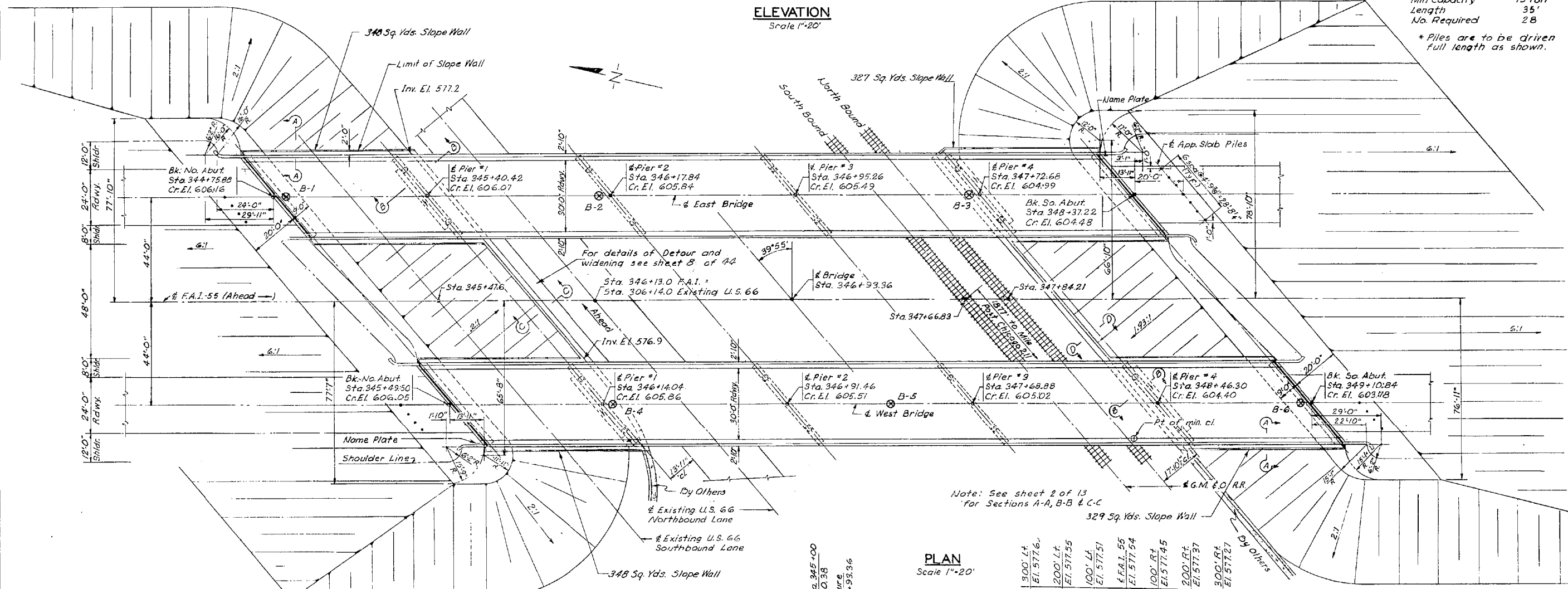
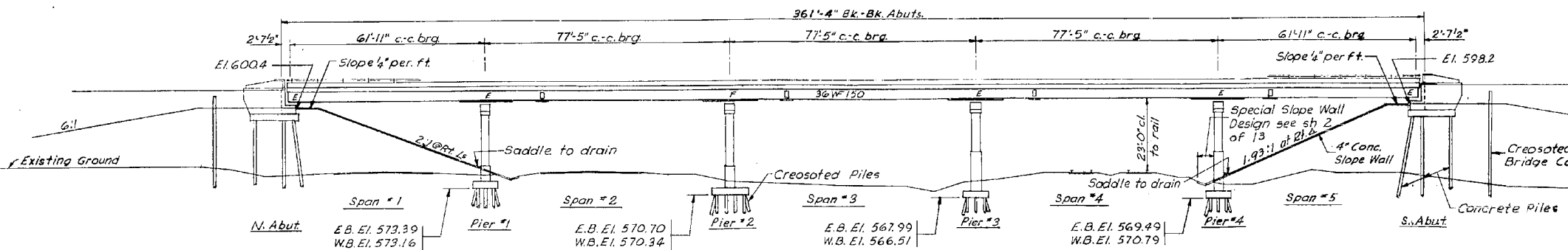
South Embankment  
28,656 Cu. Yds.  
Earth Excavation  
33,887 Cu. Yds.

PILES FOR METHOD II

See Std. 2138-1

Type	Creosoted
Min Capacity	15 ton *
Length	35'
No. Required	28

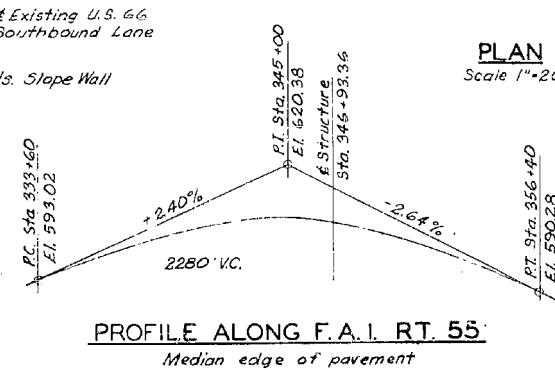
\* Piles are to be driven full length as shown.



Note: See sheet 2 of 13  
For Sections A-A, B-B & C-C

**PROFILE ALONG RAIL**  
East Rail of North Bound G.M. & O. R.R.

300' Lt.	El. 577.6
200' Lt.	El. 577.55
100' Lt.	El. 577.51
El. F.A.I. 55	El. 577.54
100' Rt.	El. 577.45
200' Rt.	El. 577.37
300' Rt.	El. 577.27



STATION 346+93.36  
BUILT 19 BY  
STATE OF ILLINOIS  
F.A.I. RT 55 SEC. 84-2VB  
F.A. PROJ. 138-55-3 (2)  
LOADING H20-516 & ALT.

LETTERING FOR NAME PLATE  
See Std. 2113

**DESIGN STRESSES**  
f<sub>c</sub> = 1,400 p.s.i.  
f<sub>s</sub> = 20,000 p.s.i. (Reinf.)  
f<sub>s</sub> = 18,000 p.s.i. (Struct.)  
f<sub>p</sub> = 75 p.s.i. (Pier Ftg.)  
n = 10  
Loading H20-516-44 & Alternate Loading with 20' future wearing surface



Work this sheet with sheet 2 of 13

**GENERAL PLAN & ELEVATION**  
F.A.I. ROUTE 55 OVER G.M. & O. R.R.

F.A.I. ROUTE 55 SECTION 84-2 VB-F  
SANGAMON COUNTY  
STATION 346+93.36 (2)

HANSON, COLLINS & RICE  
CONSULTING ENGINEERS  
SPRINGFIELD, ILLINOIS

DESIGNED	V.F.S.	EXAMINED	19
CHECKED	R.P.C.	PAVED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	T.E.B.	APPROVED	DIVISION OF HIGHWAYS
CHECKED	V.F.S.	CHIEF HIGHWAY ENGINEER	

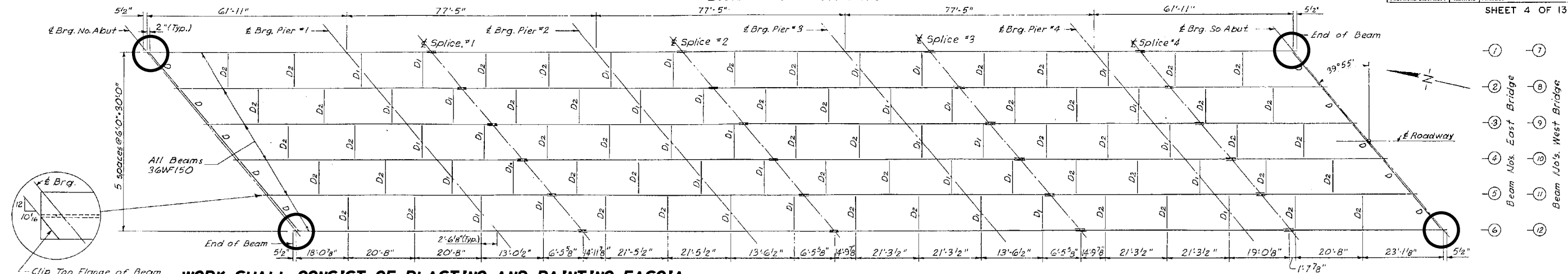
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USER NAME = dudleybm	DESIGNED -	REVISED -	EXISTING PLANS, SN 084-0020 (FOR INFORMATION ONLY)	F.A.I. RTE. 55	SECTION D6 BDGE PAINTING 2019	COUNTY SANGAMON	TOTAL SHEETS 17	SHEET NO. 14
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 72L33				
PLOT DATE = 8/6/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -						

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

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	84-2 VB	Sangamon	17	12
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		19	9

SHEET 4 OF 13



**WORK SHALL CONSIST OF BLASTING AND PAINTING FASCIA BEAM ENDS, ADJACENT DIAPHRAGM CONNECTIONS, AND STEEL COMPONENTS OF FASCIA BEAM BEARINGS AT BOTH ABUTMENTS.**

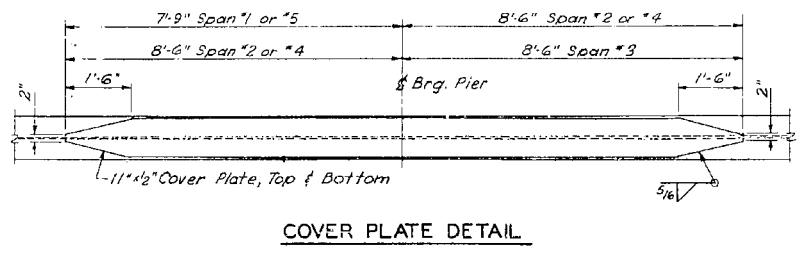
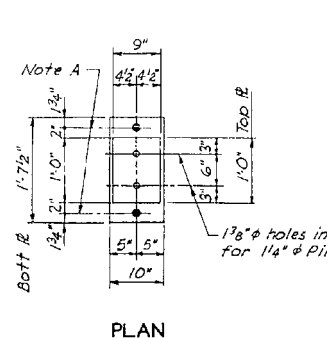
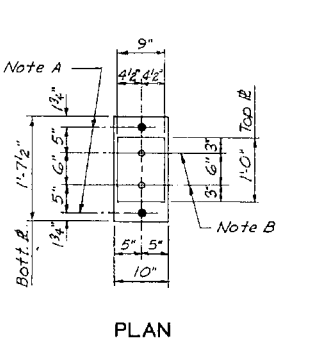
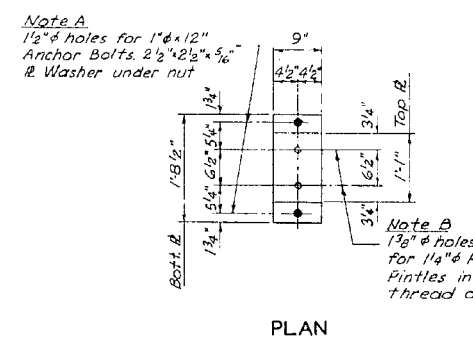
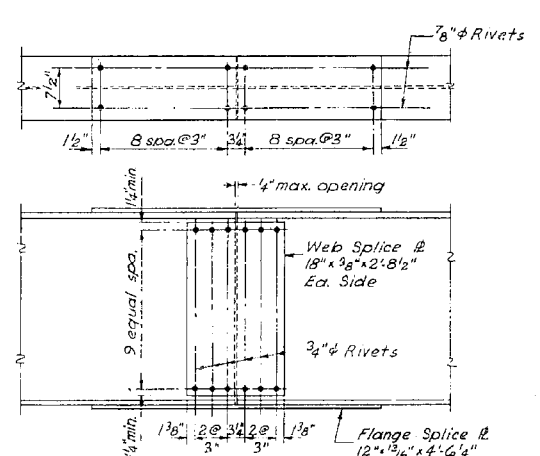
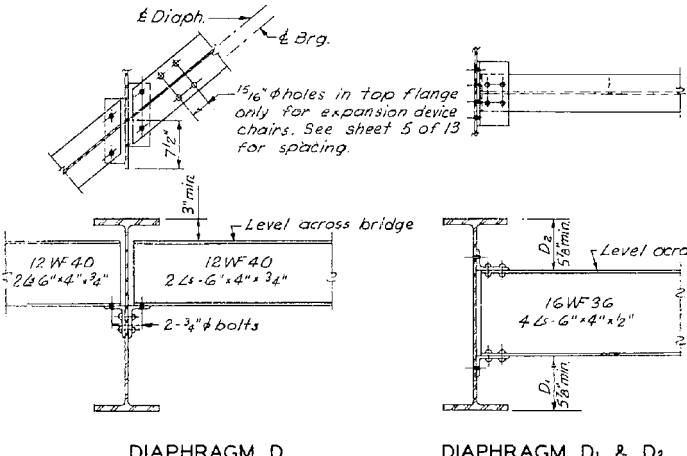
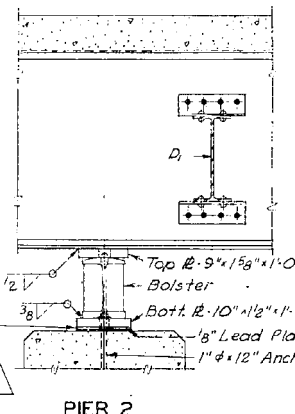
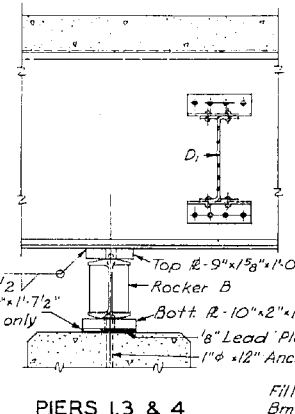
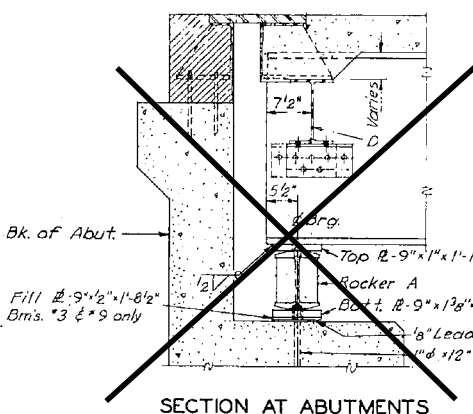


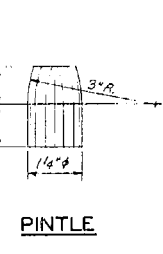
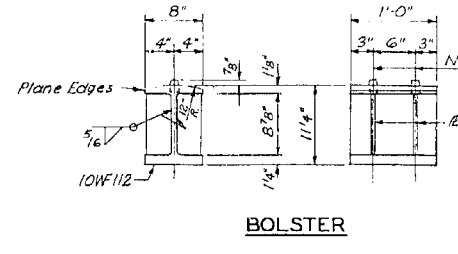
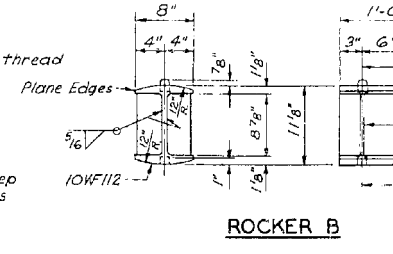
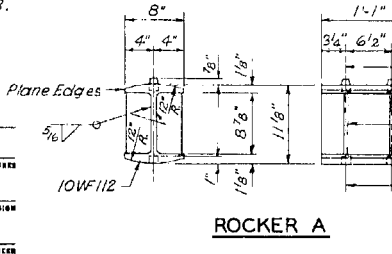
TABLE OF ELEVATIONS

Span	Abut	Pier #1	Splice #1	Pier #2	Splice #2	Pier #3	Splice #3	Pier #4	Splice #4	So. Abut
1	605.40	605.28	605.25	605.06	605.01	604.71	604.62	604.20	604.08	603.75
2	605.49	605.37	605.34	605.15	605.10	604.80	604.71	604.29	604.17	603.84
3	605.53	605.41	605.38	605.19	605.14	604.84	604.75	604.33	604.21	603.88
4	605.49	605.37	605.34	605.15	605.10	604.80	604.71	604.29	604.17	603.84
5	605.42	605.30	605.27	605.08	605.03	604.73	604.64	604.22	604.10	603.77
6	605.27	605.15	605.12	604.93	604.88	604.58	604.49	604.07	603.95	603.62
7	605.30	605.09	605.03	604.74	604.66	604.26	604.14	603.62	603.48	603.08
8	605.37	605.16	605.10	604.81	604.73	604.33	604.21	603.69	603.55	603.15
9	605.41	605.20	605.14	604.85	604.77	604.37	604.25	603.73	603.59	603.19
10	605.37	605.16	605.10	604.81	604.73	604.33	604.21	603.69	603.55	603.15
11	605.28	605.07	605.01	604.72	604.64	604.24	604.12	603.60	603.46	603.06
12	605.13	604.92	604.86	604.57	604.49	604.09	603.97	603.45	603.31	602.91

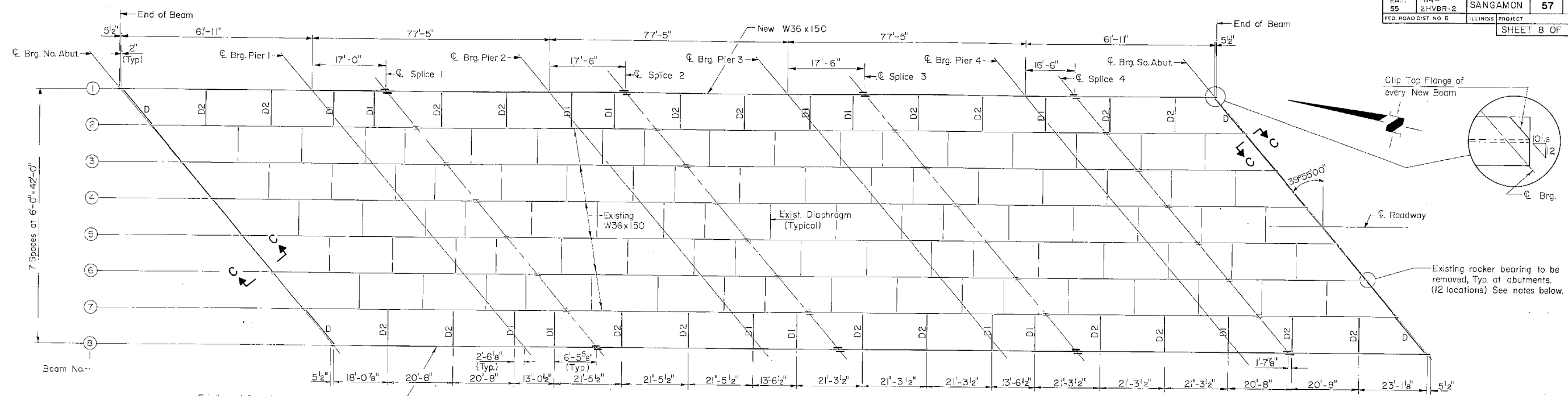
\* All elevations shown are to top of beam at bearing or splice.

Note: The Structural Steel for all cover plates and the WF sections to which they are welded, shall conform to the Specifications for Steel for Bridges and Buildings, A.S.T.M. Designation: A-373. All other Structural Steel may conform to A.S.T.M. Designation: A-7.

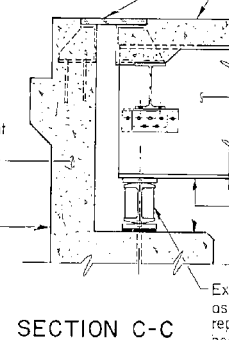
DESIGNED	VFS	EXAMINED	
CHECKED	R.D.C.	PASSED	
DRAWN	T.E.B.	APPROVED	
CHECKED	VFS		



STRUCTURAL STEEL  
F.A.I. ROUTE 55 OVER G.M. & O. R.R.  
F.A.I. ROUTE 55 SECTION 84-2 VB-F  
SANGAMON COUNTY  
STATION 346+93.36 (2)

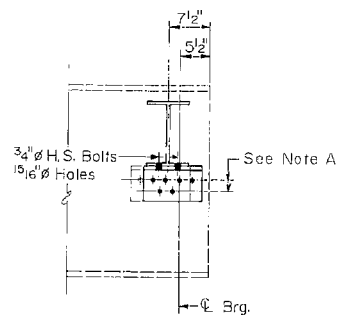


**FRAMING PLAN**

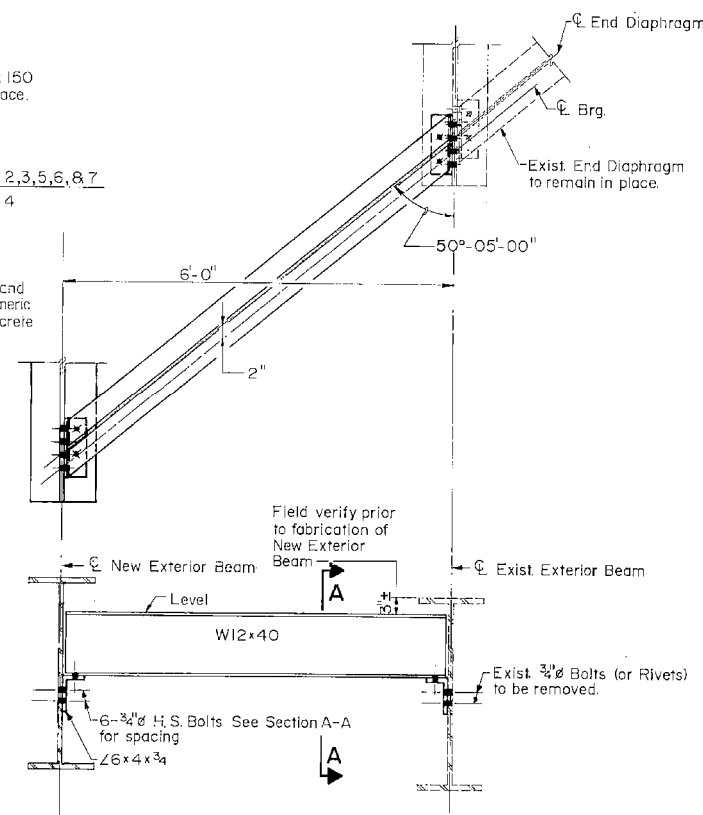


**SECTION C-C**

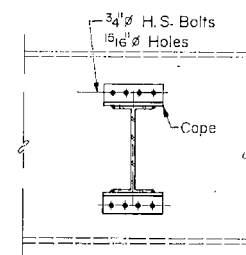
\* This dimension shall be verified by Contractor before building the Concrete Pedestal.



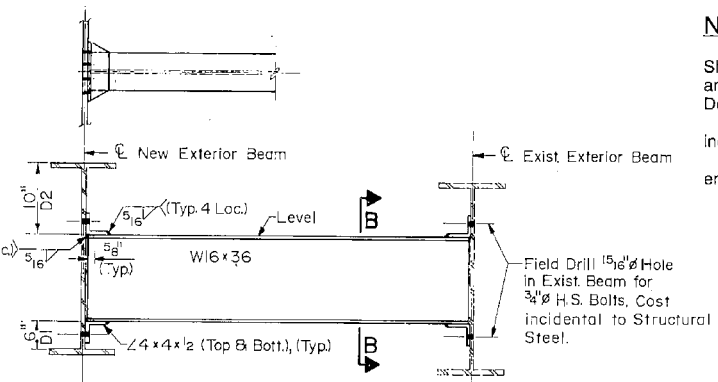
**SECTION A-A**



**END DIAPHRAGMS, D**



**SECTION B-B**



**INTERIOR DIAPHRAGMS, DI & D2**

**TOP OF BEAM ELEVATION**  
(For Fabrication Only)

BEAM	CL. BRG. N. ABUT.	PIER 1	CL. SPLICE NO. 1	PIER 2	CL. SPLICE NO. 2	PIER 3	CL. SPLICE NO. 3
①	605.27	605.14	605.10	604.91	604.86	604.58	604.50
②	605.24	605.06	605.01	604.79	604.72	604.39	604.29

BEAM	PIER 4	CL. SPLICE NO. 4	CL. BRG. S. ABUT.
①	604.10	604.00	603.75
②	603.85	603.73	603.44

**ABUTMENT BEARING REMOVAL AND REPLACEMENT**

- The existing rocker bearing assemblies at the north and south abutments shall be removed and replaced with new elastomeric bearing assemblies.
- The Contractor shall complete the bearing replacement work after removal of existing concrete deck and prior to pouring the new concrete deck, load per bearing = 5.0 Kips.
- The welds connecting the sole plate to the existing beam bottom flange shall be ground smooth.
- Temporary removal of the end diaphragms may be required to complete the bearing replacement work. The diaphragms shall be reconnected with new high strength bolts.
- Field drill holes in the beam bottom flanges for attaching the new elastomeric bearings.
- All related work required to complete the bearing removal shall be considered incidental to Jack and Remove Existing Bearings.

**NOTE A:**

Existing Bolts or Rivets to be removed for fastening of New Shelf Angle. Field drill 15/16" holes in new angle using existing angle as a template. Cost incidental to Removal of Existing Concrete Deck.  
 Replace existing bolts and rivets using 3/4" H.S. Bolts. Cost included in Structural Steel.  
 Verify existing bolt locations in field prior to ordering materials to ensure adequate edge clearance.

**FRAMING PLAN & DETAILS**  
 F.A.I. RTE. 55 SEC. 84-2HVBR-2  
 SANGAMON COUNTY  
 STA. 346+93.36  
 STRUCTURE NO. 084-0020

**HSIONG ASSOCIATES LTD.**  
 DESIGNED: P.M.L. CHECKED: P.Y.L.  
 DRAWN: A.E. DATE: 9-10-91 NO. H-117

MODEL: Default FILE NAME: C:\CONTRACTS\OPERATIONS\Bridges\Bridges\Bridges\CAD\72L33 - 155\_Sangamon\_painting\sheet8.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 8/6/2019	DATE -	REVISED -

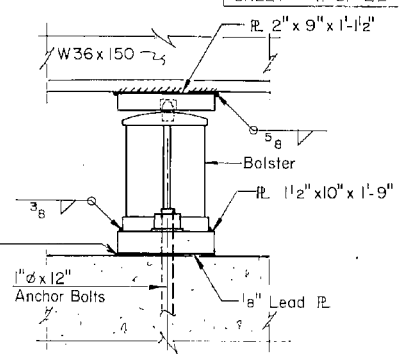
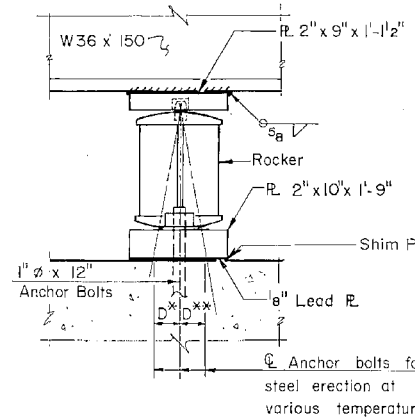
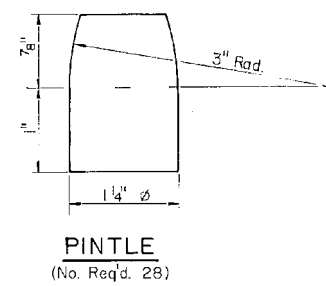
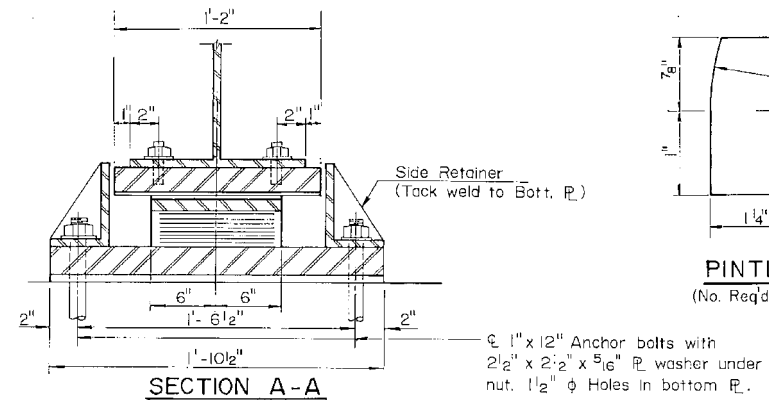
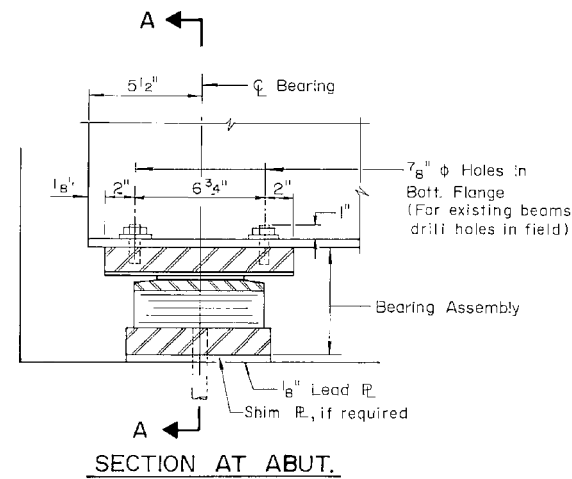
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING PLANS, SN 084-0020**  
**(FOR INFORMATION ONLY)**

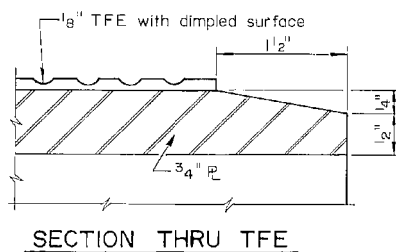
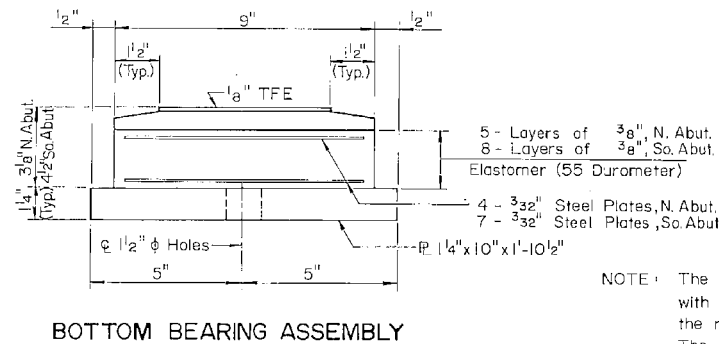
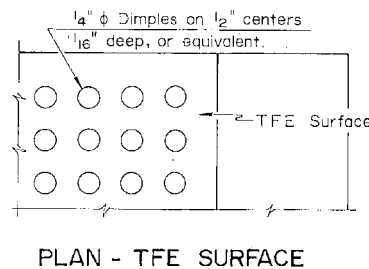
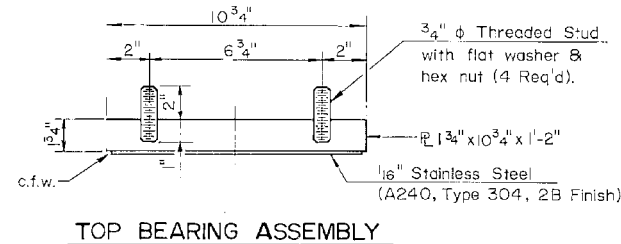
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	16
CONTRACT NO. 72L33				
ILLINOIS FED. AID PROJECT				

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. 55	84-2HVBR-2	SANGAMON	57	22
FED ROAD DIST NO 6	ILLINOIS PROJECT	SHEET 11 OF 22		



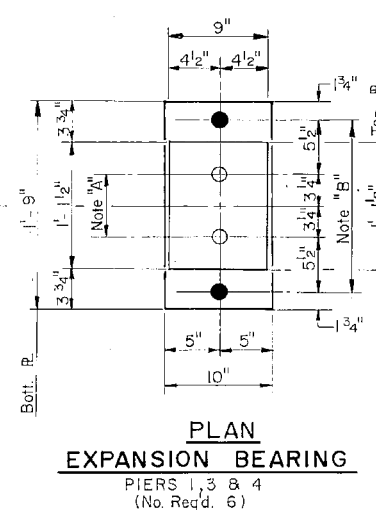
**TYPE II TFE ELASTOMERIC EXP. BRG.**



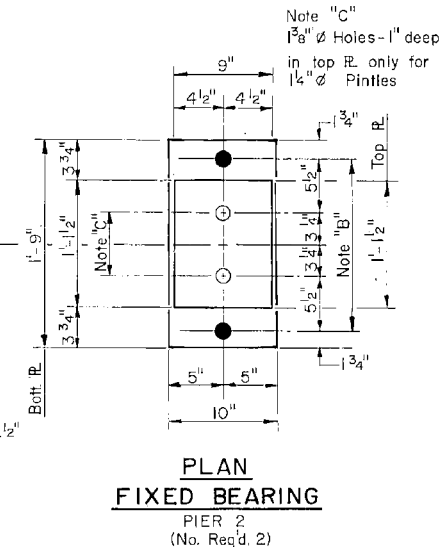
NOTE: After girders have been erected, holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.

**NOTES FOR SETTING ANCHOR BOLTS AT EXPANSION BEARINGS**

- a) D\* (Side of brg. away from fixed brg.)  
D\* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
- D\*\* (Side of brg. toward fixed brg.)  
D\*\* = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b) After girders have been erected and dimensions D\* & D\*\* determined, holes shall be drilled and anchor bolts shall be installed as shown on Sheet # 18 of 22. All fixed anchor bolts may be built into the masonry.



Note "A"  
1 3/8" diameter holes - 1" deep in top roller for 1 1/4" diameter pintles threaded or press fit pintles in bottom roller.



Note "C"  
1 3/8" diameter holes - 1" deep in top roller only for 1 1/4" diameter pintles.

NOTE: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

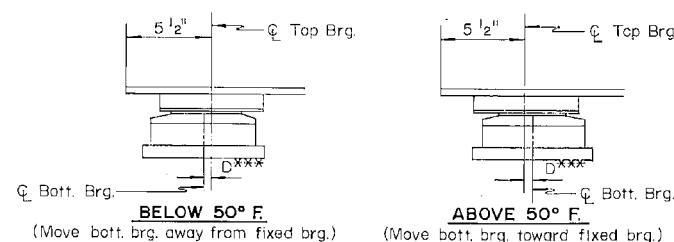
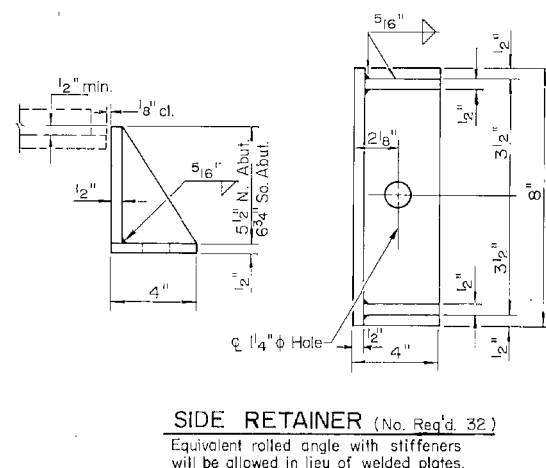
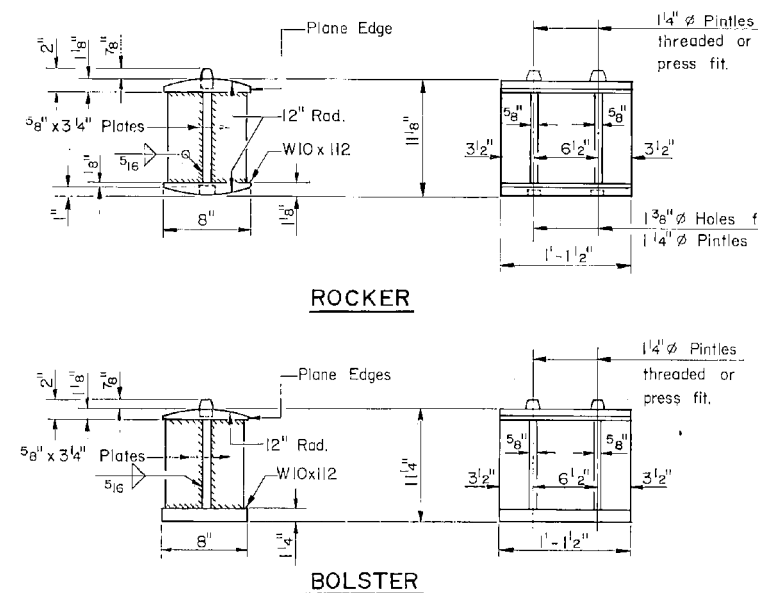
**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	16

**BEARING DETAILS**  
F.A.I. RTE. 55 SEC. 84-2HVBR-2  
SANGAMON COUNTY  
STA. 346+93.36  
STRUCTURE NO. 084-0020

HSIONG ASSOCIATES LTD.

DESIGNED: P.M.L. CHECKED: P.Y.L.  
DRAWN: C.S.L. DATE: 8-23-91 NO. H-117



D\*\*\* = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS, SN 084-0020  
(FOR INFORMATION ONLY)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 BDGE PAINTING 2019	SANGAMON	17	17
				CONTRACT NO. 72L33
ILLINOIS FED. AID PROJECT				

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/6/2019	CHECKED -	REVISED -
	DATE -	REVISED -