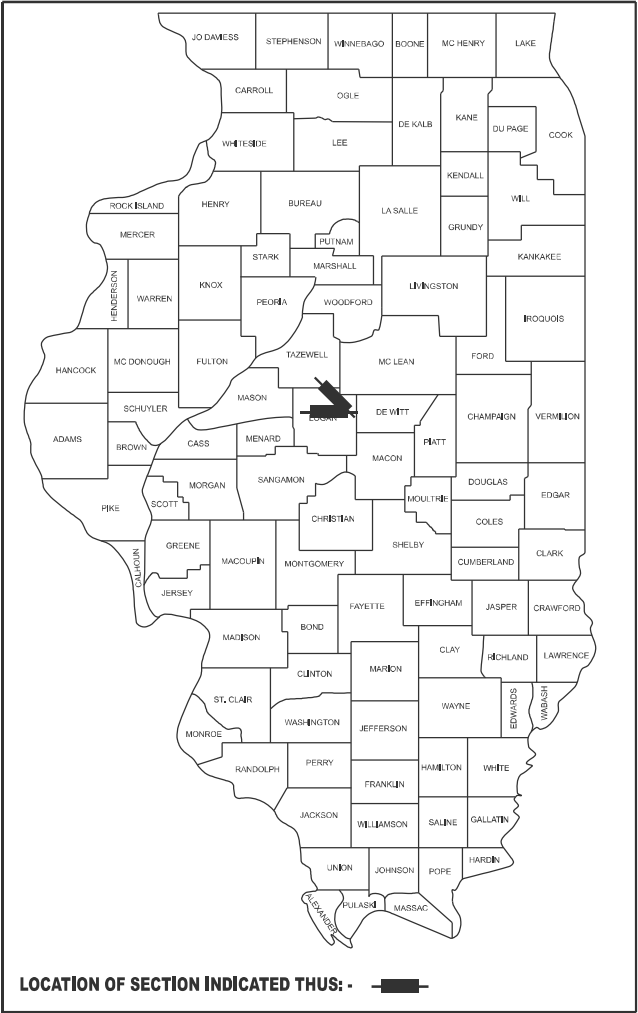


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(54-4HVB,5HVB)BP	LOGAN	18	1
		ILLINOIS	CONTRACT NO. 72653	

D-96-006-25



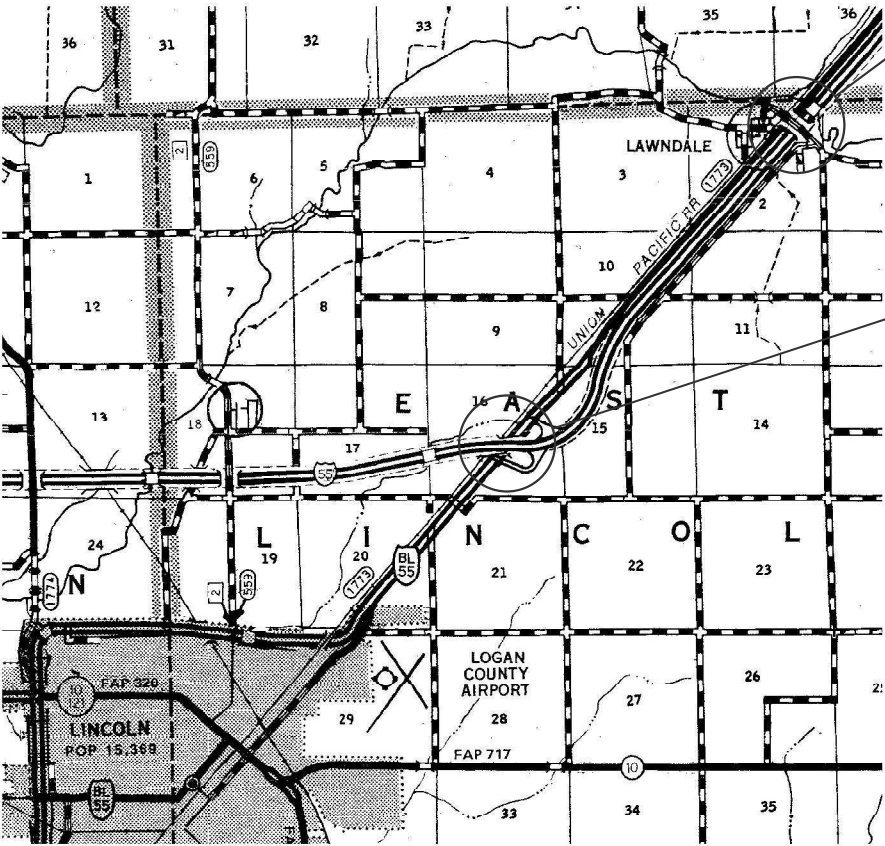
LOCATION OF SECTION INDICATED THUS: - [arrow] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

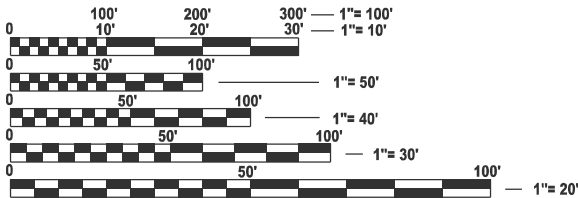
FAI ROUTE 55 (I-55)
SECTION (54-4HVB,5HVB)BP
PROJECT NHPP-EEX3(877)
BRIDGE PAINTING
LOGAN COUNTY

C-96-026-25



LOCATION #3
SN 054-0062
TR 65A OVER
I-55, I-55 WFR, & UPRR
@ LAWNDAL E OVERHEAD

LOCATIONS #1 & #2:
SN 054-0060 & 0061
I-55 SB & NB OVER
BL55 & UPRR @
I-55 / BL55 INT.



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: BRANDON DUDLEY - (217) 785-9290
PROJECT MANAGER

CONTRACT NO. 72653

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 14, 2025
Teresa C. Price
REGIONAL ENGINEER

October 3, 2025
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

October 3, 2025
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES
- 3-4 SUMMARY OF QUANTITIES
- 5-13 EXISTING BRIDGE PLANS, SN 054-0060 & 0061
- 14-18 EXISTING BRIDGE PLANS, SN 054-0062

HIGHWAY STANDARDS

- 000001-08
- 001006
- 701001-02
- 701006-05
- 701101-05
- 701106-02
- 701400-12
- 701402-12
- 701423-10
- 701428-01
- 701901-10
- 704001-08
- 782006-01
- BLR21-9

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 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 LOCATIONS AS CALLED OUT IN THE SPECIAL PROVISIONS.
- 3. THE SSPC-QP-1AND SSPC-QP2 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.

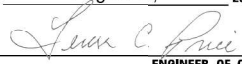
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED

August 14,

20

25



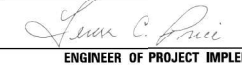
ENGINEER OF OPERATIONS

EXAMINED

August 14,

20

25



ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED

August 13,

20

25



ENGINEER OF PROGRAM DEVELOPMENT

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	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, & SIGNATURES			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					5	(54-4HVB,5HVB)BP	LOGAN	18	2
		CHECKED -	REVISED -					CONTRACT NO. 72653				
	PLOT DATE = 6/10/2025	DATE -	REVISED -		SCALE:	SHEET	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0-01379-6001	0-01379-6001
				NHPP 90/10	NHPP 90/10
				SN 054-0060 & 0061	SN 054-0062
				0047-RURAL	0047-RURAL
				LOGAN	LOGAN
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	0	2
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2	2	0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	70	14	56
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1400	800	600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1400	800	600
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR21	L SUM	1	0	1

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0-01379-6001	0-01379-6001
				NHPP 90/10	NHPP 90/10
				SN 054-0060 & 0061	SN 054-0062
				0047-RURAL	0047-RURAL
				LOGAN	LOGAN
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.1	L SUM	I	I	0
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.2	L SUM	I	I	0
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.3	L SUM	I	0	I
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO.1	L SUM	I	I	0
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO.2	L SUM	I	I	0
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO.3	L SUM	I	0	I
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	I	0.5	0.5
Ø Z0076600	TRAINEES	hour	1000	1000	
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	1000	1000	

Ø 0042

REV - MS

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					5	(54-4HVB,5HVB)BP	LOGAN	18	4
		CHECKED -	REVISED -					CONTRACT NO. 72653				
	PLOT DATE = 7/15/2024	DATE -	REVISED -		SCALE:	SHEET	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. F.A.T-55	54-4HVB	LOGAN	616	150
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1
27 SHEETS

APPROACH PILE DATA

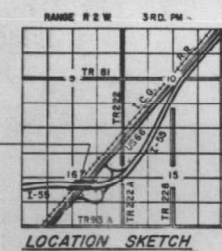
Type: = Creosoted
Length Req'd. = 38'
No. Req'd = 37

STA. 700 + 89.92
BUILT 197 BY
STATE OF ILLINOIS
F.A.I. RTE. 55 SEC. 54-4HVB
F.A.I. PROJ. I-JG-55-4(63)
LOADING H.S. - 20 & ALT.

NAME PLATE
STD. 2113

DESIGN STRESSES

fc=1200 p.s.i. Deck Slab
fc=1400 p.s.i. Curb, Parapet, Substructure
fs=20,000 p.s.i. Struct. Steel & Reinforcement
27,000 psi A-588 Neg. Mom. Areas
Wt 75 psi Figs. n=10
1/4 Deflection = L/1200 Comp.
Design Specification = 1969 AASHTO (as applicable)
LOADING HS-20-44 ft. Alt.
(Allowable F.U.T. W. S. 25 psf)



GENERAL PLAN & ELEVATION
F.A.I. 55 OVER EXIST
US 66 B.I.C.G. R.R.
LOGAN COUNTY
SEC. 54-4HVB
STA. 700+89.92 6-

6-85

DESIGNED	G.E.P. - D.V.K.	
CHECKED	G.E.P.	
DRAWN	J.E.S.D.A.B.	
CHECKED	G.E.P.	9/13

Station	E. Rail	W. Rail
48+00	604.09	604.12
48+50	604.05	604.05
49+00	604.04	604.04
49+50	604.00	604.02
50+00	603.93	603.96
50+50	603.89	603.90
51+00	603.85	603.86
51+50	603.82	603.84

DATE: 10-11-1973

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

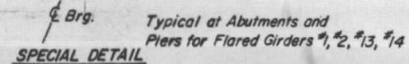
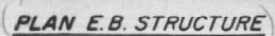
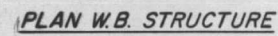
**EXISTING BRIDGE PLANS, SN 054-0060 & 0061
(FOR INFORMATION ONLY)**

SCALE:	SHEET	OF 14 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	5
		CONTRACT NO. 72653		
		ILLINOIS	FED. AID PROJECT	

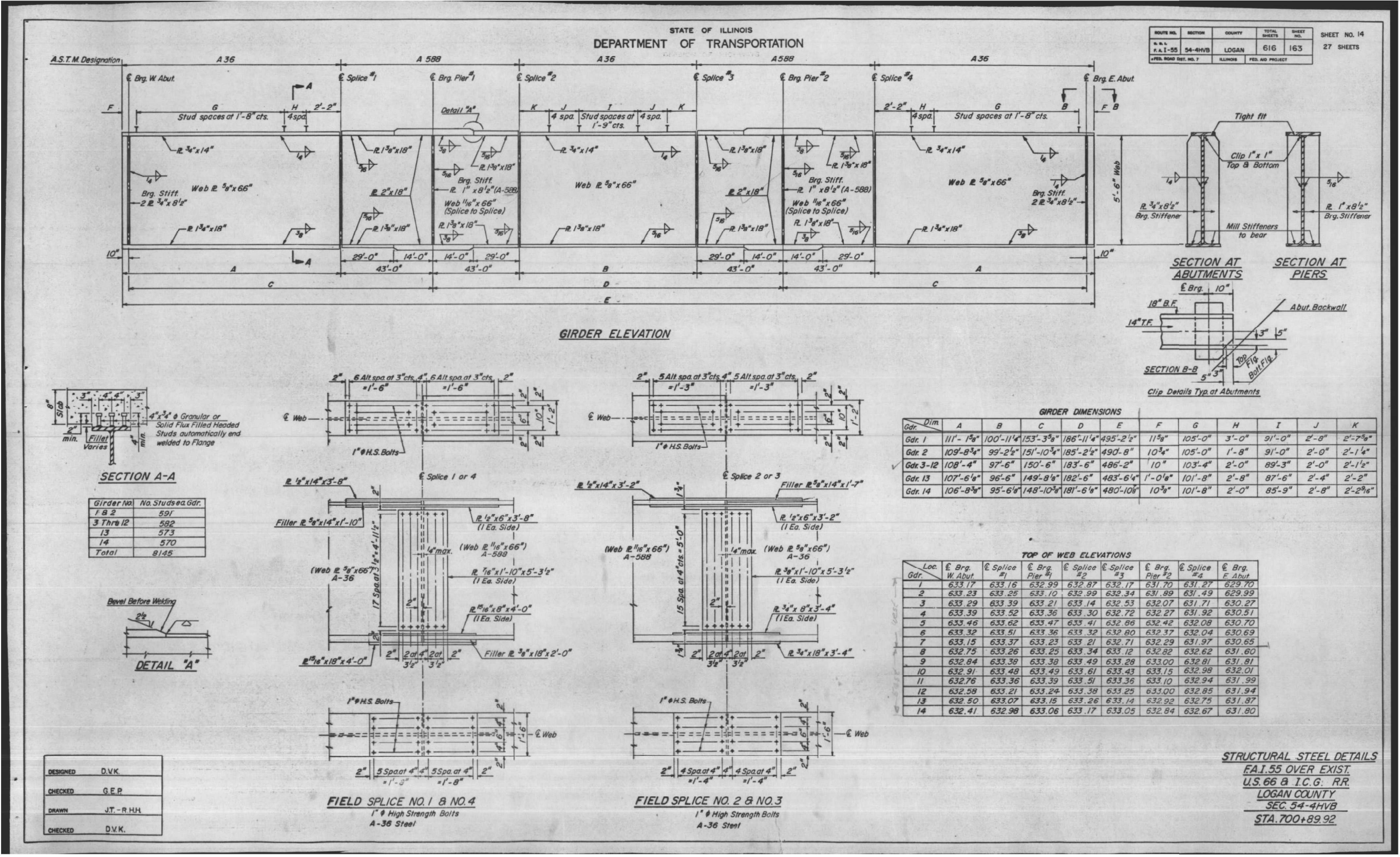
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 1 K.A. 55	54-4HVB	LOGAN	616	162
*FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 13
27 SHEETS



DESIGNED	D.V.K.
CHECKED	G.E.P.
DRAWN	J.T.
CHECKED	G.E.P.

MODEL: Bridge-3 (Steel)
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USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 7/16/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS, SN 054-0060 & 0061
(FOR INFORMATION ONLY)

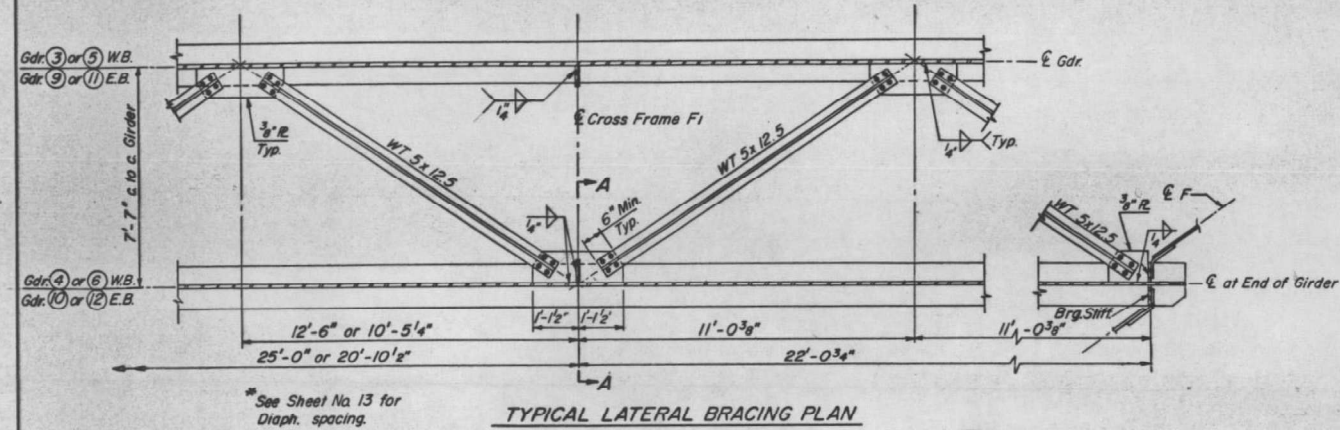
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	7
CONTRACT NO. 72653				
ILLINOIS FED. AID PROJECT				

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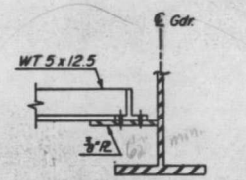
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15
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SPED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

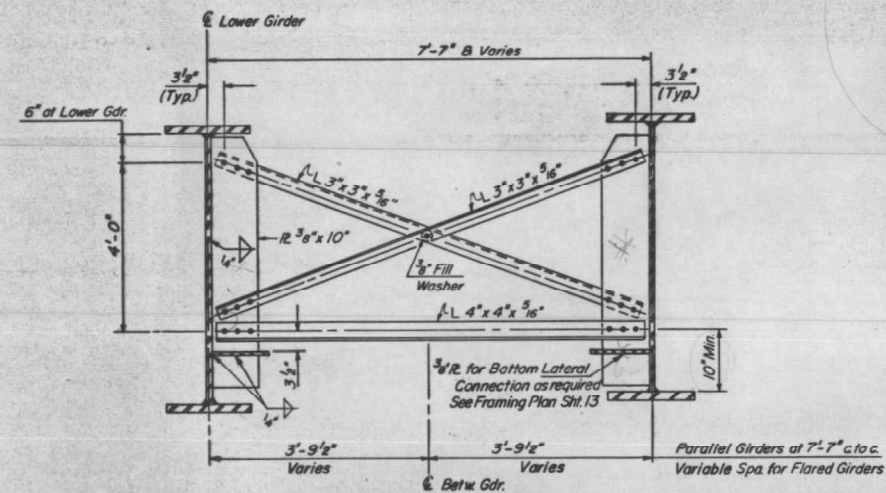


TYPICAL LATERAL BRACING PLAN

BOLTS 3/4" #
Open Holes 1 1/8" #
1 1/8" # holes in gusset P.L.s for 3/4" # bolts

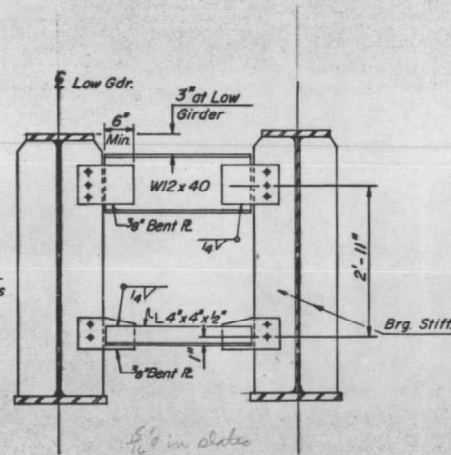


SECTION A-A



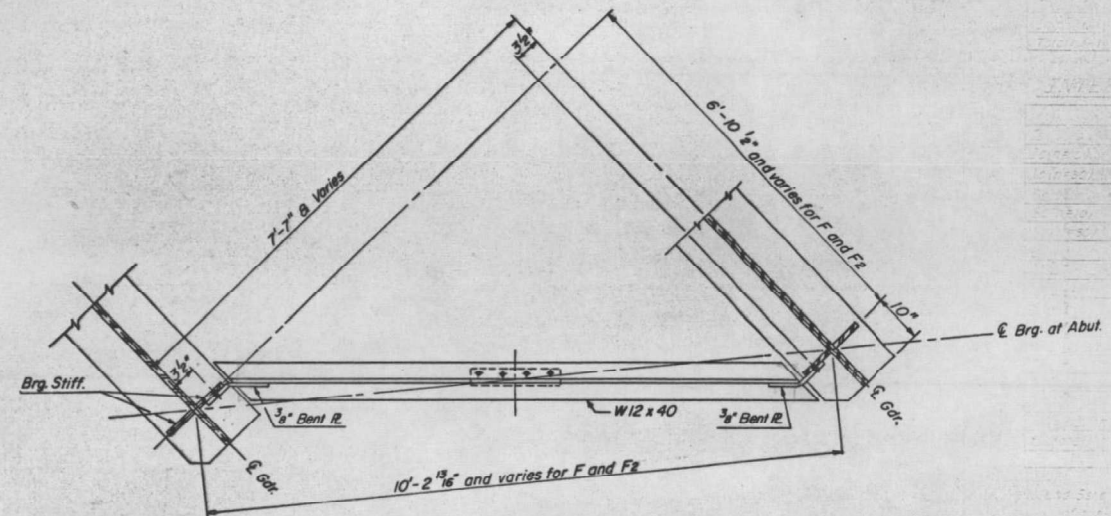
INTERIOR CROSS FRAME F1

No. Required = 152 ea. for 7'-7" Gdr. Spa.
76 ea. for Flared Gdrs.
BOLTS 3/4" #
Open Holes 1 1/8" #
1 1/8" # holes in gusset P.L.s for 3/4" # bolts.



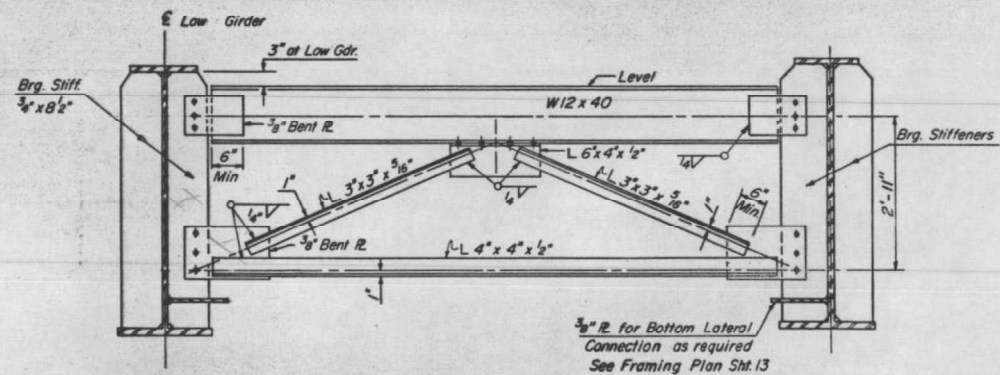
END CROSS FRAME F2

No. Required = 4 ea.
BOLTS 3/4" #
Open Holes 1 1/8" #



END CROSS FRAME F

No. Required = 20 Ea.
BOLTS 3/4" #
Open Holes 1 1/8" #
1 1/8" # holes in gusset P.L.s for 3/4" # bolts



DESIGNED	D.V.K.
CHECKED	G.E.P.
DRAWN	J.T.
CHECKED	D.V.K.

STRUCTURAL STEEL DETAILS
F.A.I. 55 OVER EXIST.
U.S. 66 & I.C.G. R.R.
LOGAN COUNTY
SEC. 54-4HVB
STA. 700+89.92

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS, SN 054-0060 & 0061
(FOR INFORMATION ONLY)

SCALE: SHEET OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB, 5HVB)BP	LOGAN	18	8
CONTRACT NO. 72653				
ILLINOIS FED. AID PROJECT				

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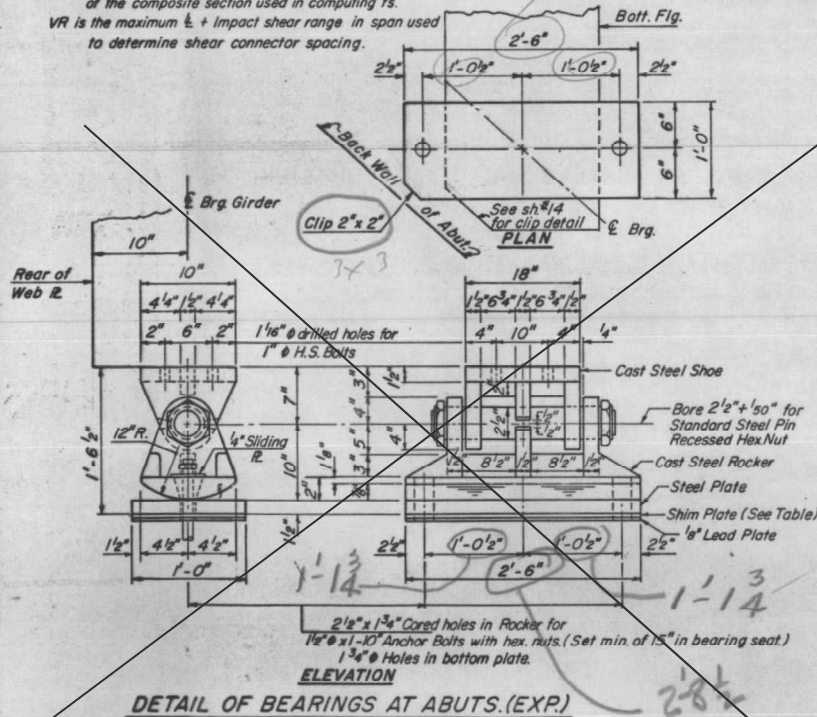
INTERIOR GIRDER REACTION TABLE

	ABUTMENTS	PIERS
R ₁ (k)	85.9	291.2
R ₂ (k)	48.5	103.6
Imp. (k)	8.8	17.7
Total (k)	143.2	412.5

INTERIOR GIRDER MOMENT TABLE

	0.4Span 3	Pier 1 or 2	0.5Span 2
I _s (in ⁴)	56,656	99,727	51,708
I _c (in ⁴)	140,509	—	124,536
I _c (n=30) (in ⁴)	97,166	—	87,614
S _s (in ³)	2167.3	2849.3	1,943.0
S _c (n=10) (in ³)	2941.5	—	2,513.6
S _c (n=30) (in ³)	2654.4	—	2,265.7
Q (in ²)	1.097	1.680	1.070
M ₁ (k)	1627.2	4538.2	1163.5
f _s (ksi)	9.02	19.11	7.58
S ₁ (k/in)	0.446	—	0.446
M _s (k)	755.6	—	733.0
f _s S ₁ (n=30) (k)	3.42	—	3.88
M ₁ (k)	1440.5	1595.2	1518.3
M _{imp} (k)	260.7	272.8	246.0
Total (k)	1701.2	1868.0	1764.3
f _s (k+I) (n=10) (ksi)	6.94	7.87	8.42
f _s (total) (ksi)	19.38	26.98	19.88
VR (k)	63.0	—	59.5

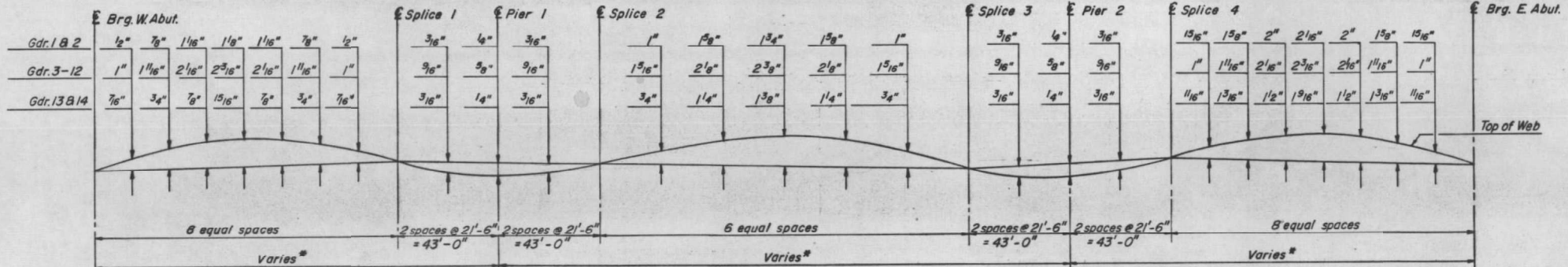
I_s and S_s are the moment of inertia and section modulus of the steel section.
I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s.
VR is the maximum $\pm$ Impact shear range in span used to determine shear connector spacing.



DESIGNED	G.E.P.
CHECKED	D.V.K.
DRAWN	J.T.-R.H.H.
CHECKED	G.E.P.

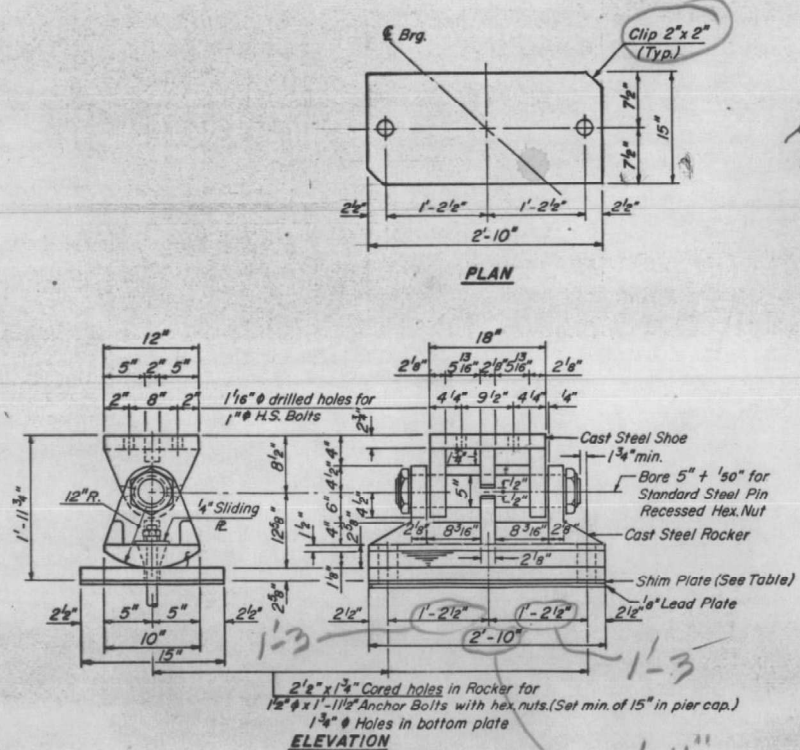
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16
54-4HVB	LOGAN	616	165	27	27 SHEETS
FED. AID PROJECT	ILLINOIS				



* For girder lengths, See Sheet #14.

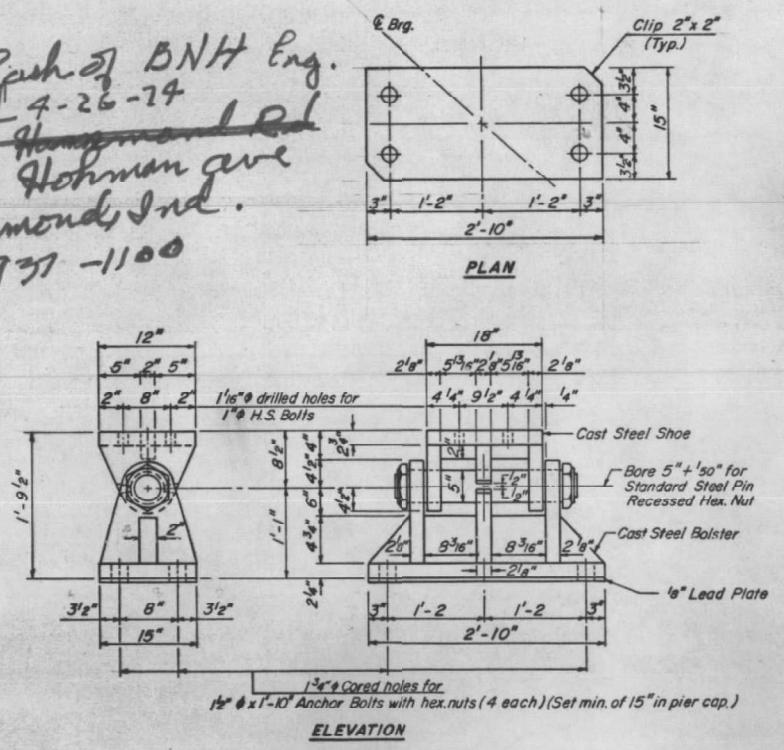
CAMBER DIAGRAM



SHIM TABLE			
Gdr.	Loc.	West Abut.	East Abut. Pier No. 2
3		5/8"	
6			1/2"
10			1/4"

Provide Shim Plates of the same dimensions of the bottom bearing plate and thickness shown. See Shim Table.
Structural Steel weldments of equal sections and strength may be substituted for the castings.
See Special Detail, Sheet #13 for flared girder-steel shoe arrangement.

Bob. Rush of BNH Eng. called 4-26-74
5305 Hammond Ave
Hammond, Ind.
219-937-1100



BEARING ASSEMBLIES
F.A.I. 55 OVER EXIST.
U.S. 66 & I.C.G. R.R.
LOGAN COUNTY
SEC. 54 - 4HVB
STA. 700+89.92

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 7/16/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

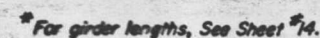
EXISTING BRIDGE PLANS, SN 054-0060 & 0061
(FOR INFORMATION ONLY)

SCALE: SHEET OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	9
CONTRACT NO. 72653				
ILLINOIS FED. AID PROJECT				

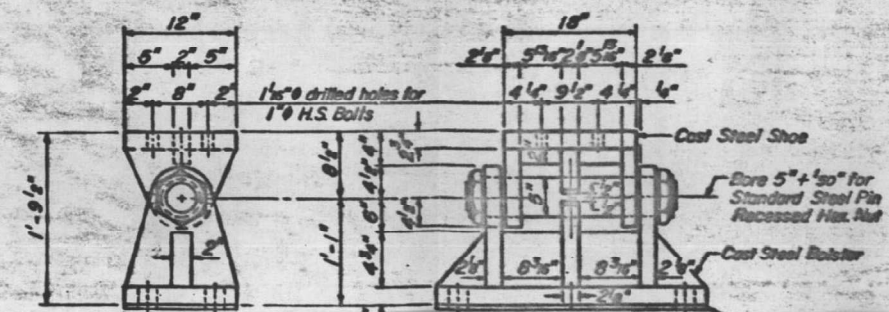
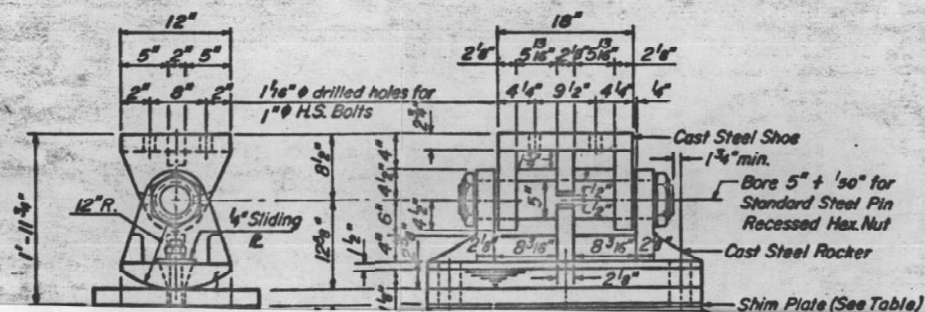
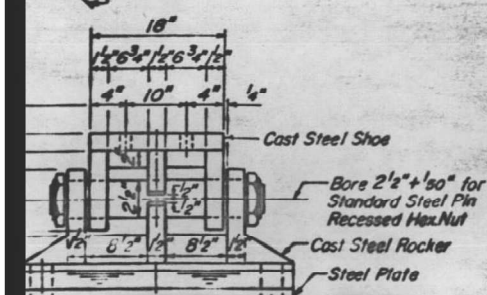
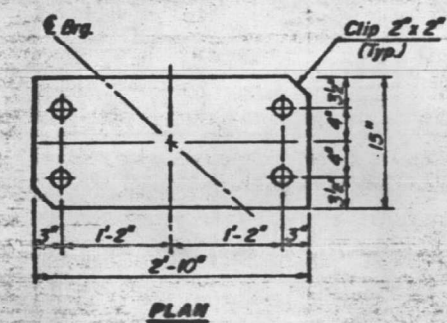
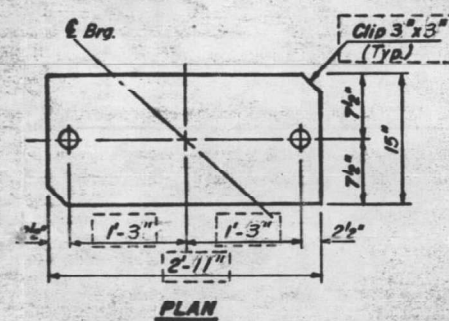
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 55	54-4HVB	LOGAN	616	165A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 16
27 SHEETS

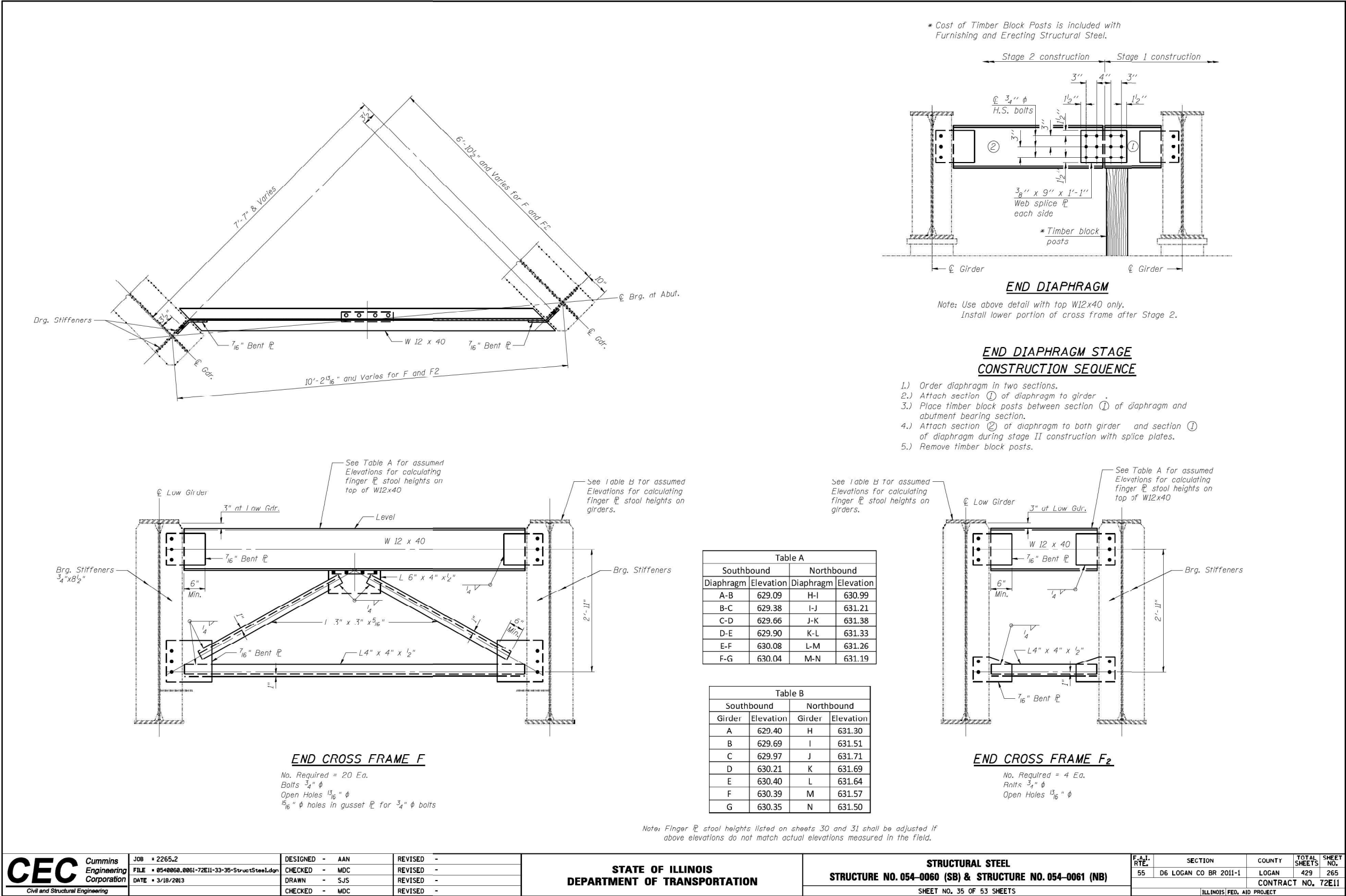


Technical drawing of a plan view of a structure, likely a bridge or pier. The drawing shows a rectangular layout with various dimensions and labels. Key features include:

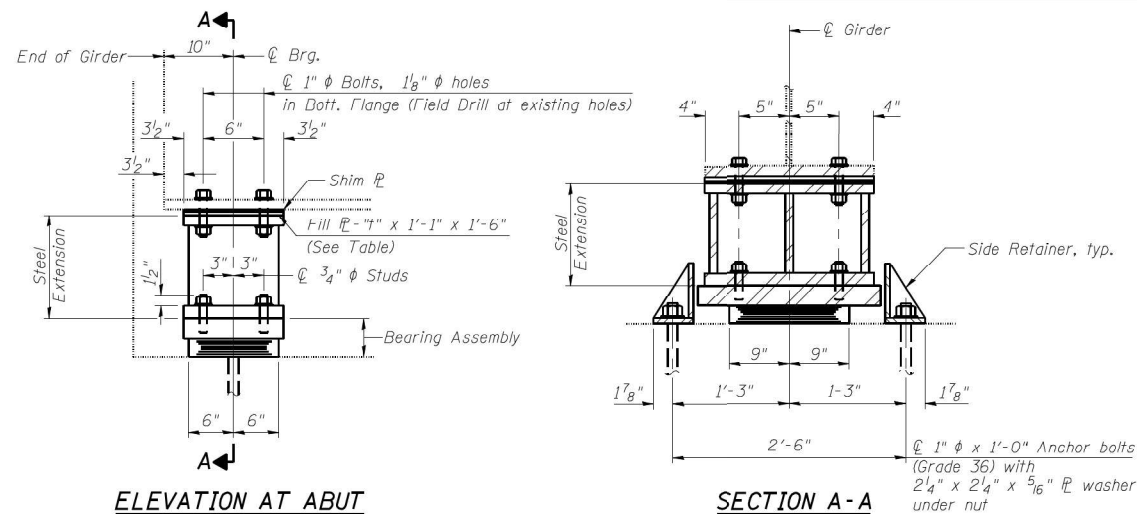
- Dimensions:**
 - Top horizontal dimension: $2'-6\frac{1}{2}"$
 - Left vertical dimension: $1'-1\frac{3}{4}"$
 - Right vertical dimension: $2'$
 - Bottom horizontal dimension: $6'-6"$
 - Bottom vertical dimension: $1'-0"$
- Labels:**
 - Batt. Fig.** (Battlement Figure) at the top right.
 - See sheet 1/4 for clip detail** at the bottom left.
 - PLAN** at the bottom center.
 - E Brg.** (East Bridge) at the bottom right.
- Other markings:**
 - A diagonal line runs from the bottom left corner towards the center.
 - There are small circles with crosshairs at the corners of the main rectangular area.
 - A dashed line runs horizontally across the middle of the drawing.



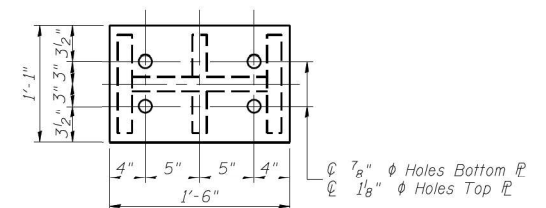
MODEL: Bridge-7 (Sheet)
FILE NAME: c:\p\work\brd\du\dudley\cml\1021619\0572653-Plansheet.dgn



USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS, SN 054-0060 & 0061 (FOR INFORMATION ONLY)	SCALE:	SHEET OF 14 SHEETS	STA. TO STA.	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						5	(54-4HVB,5HVB)BP	LOGAN	18	11
	CHECKED -	REVISED -						CONTRACT NO. 72653				
PLOT DATE = 7/16/2024	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

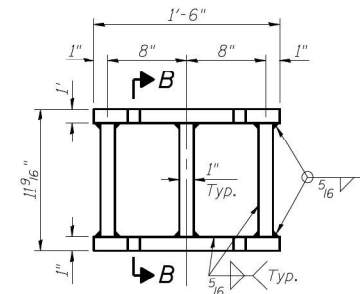
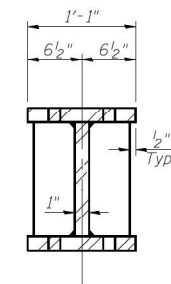


<u>FILL "T" DIMENSIONS</u>							
S.B. Lanes	A	B	C	D	E	F	G
Q Brg. W. Abut.	—	—	5 ⁵ / ₈ "	—	—	—	—



INTERIOR GIRDER REACTION TABLE

Location W. Abutment	
R_L (K) (steel only)	18.1
R_L (K)	45.2
R_{IMP} (K)	8.2
R_{TOTAL} (K)	145.5
Min. Jack Capacity (T)	23

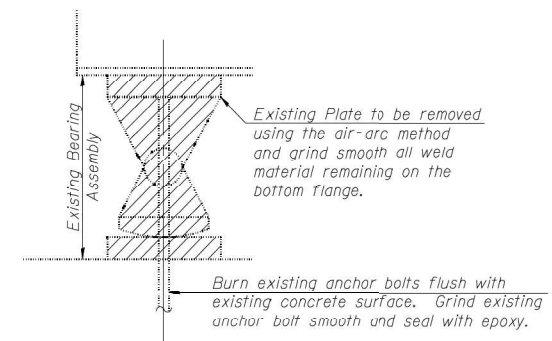
$$\text{Min. Jack Capacity} = R_L + \frac{1}{2} (R_L + R_{IMP})$$


SECTION B-B

ELEVATION

STEEL EXTENSION

AT W. ABUT. S.B. & W. ABUT. N.B.



EXISTING BEARING REMOVAL DETAIL

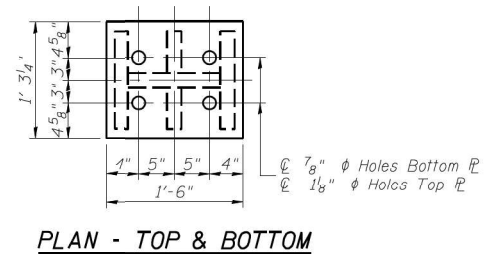
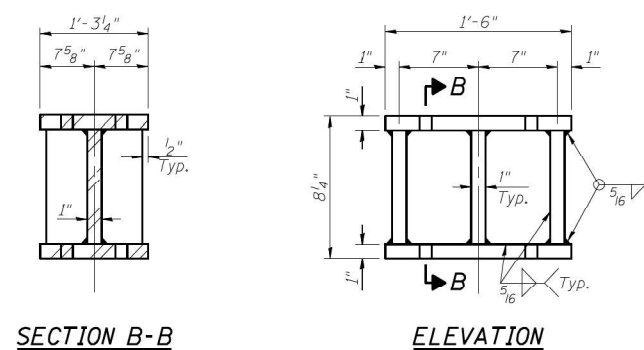
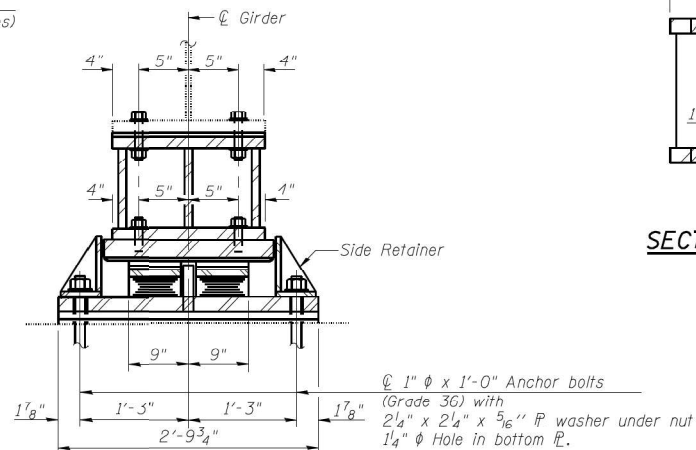
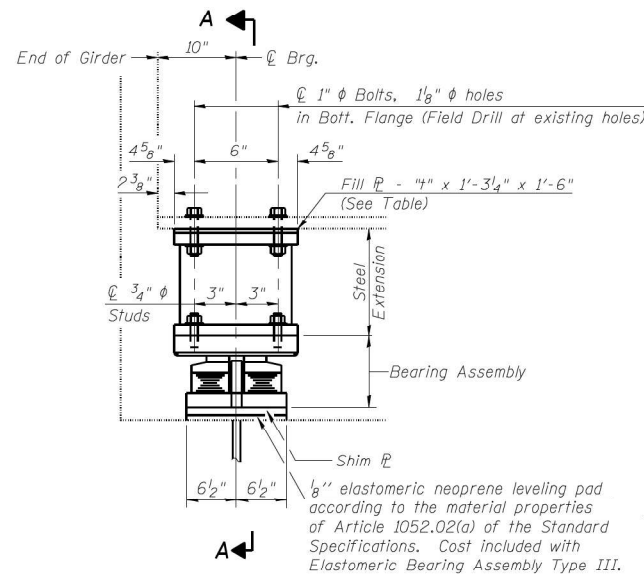
Cost Included with "Jack and Remove Existing Bearings"

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	14
Anchor Bolts 1"	Each	28
Elastomeric Bearing Assembly Type I	Each	14
Furnishing and Erecting Structure Steel	Pound	3900

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB	2265.2	DESIGNED	AAN	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPE I BEARING DETAILS AT WEST ABUTMENTS STRUCTURE NO. 054-0060 (SB) & STRUCTURE NO. 054-0061 (NB)	F.A.I. RATE 55	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE	0540060.0061-72E11-36-37-Bear Ings.doc	CHECKED	MDC	REVISED	-				D6 LOGAN CO BR 2011-1	LOGAN	429	266
	DATE	12/17/2012	DRAWN	SJS	REVISED	-				CONTRACT NO. 72E11			
			CHECKED	MDC	REVISED	-				SHEET NO. 36 OF 53 SHEETS			
ILLINOIS FED. AID PROJECT													

USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS, SN 054-0060 & 0061 (FOR INFORMATION ONLY)	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			5	(54-4HVB,5HVB)BP	LOGAN	18	12
	CHECKED -	REVISED -			CONTRACT NO. 72653				
PLOT DATE = 7/16/2024	DATE -	REVISED -			SCALE:	SHEET OF 14 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	



FILL "I" DIMENSIONS

<i>S.B. Lanes</i>	A	B	C	D	E	F	G
♂ Brg. E. Abut.	—	—	—	—	—	1/2"	—

<i>N.B. Lanes</i>	H	I	J	K	L	M	N
♂ Brg. E. Abut.	—	—	1/4"	—	—	—	—

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type III bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.

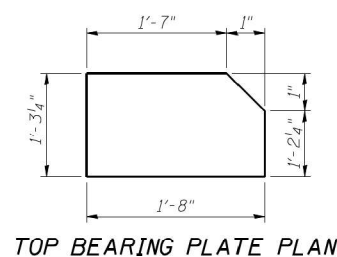
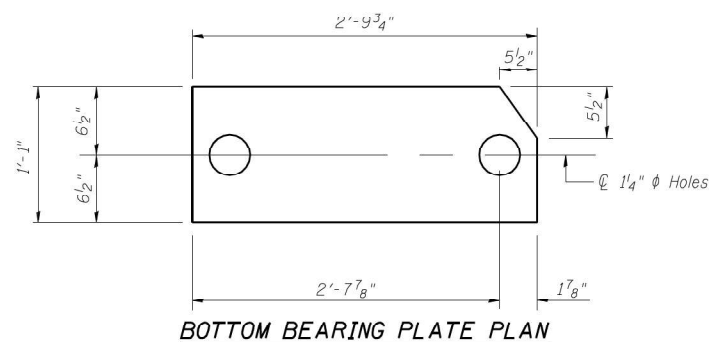
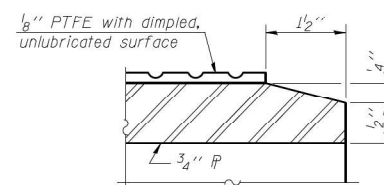
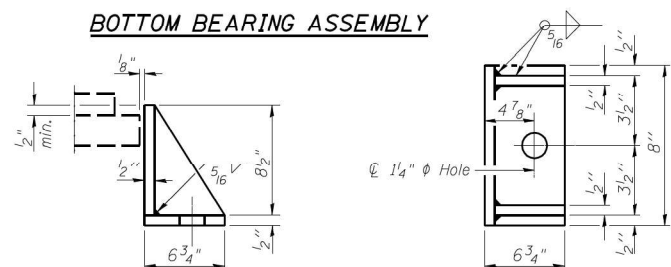
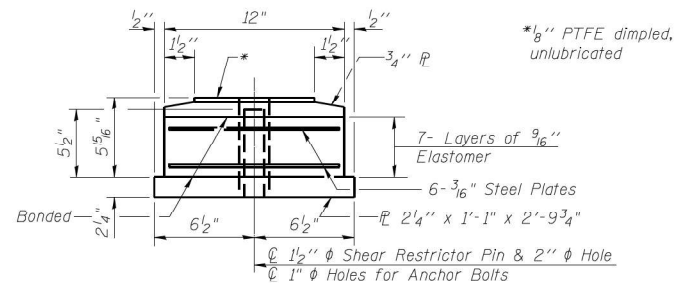
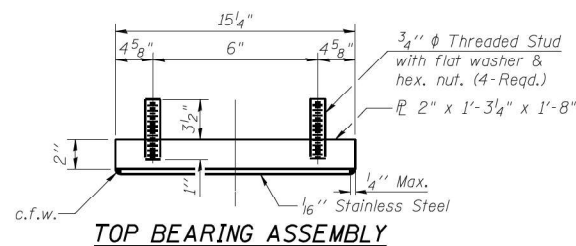
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown in the bearing details.

See Sheet 36 of 53 for existing Bearing Removal Detail.



BILL OF MATERIAL

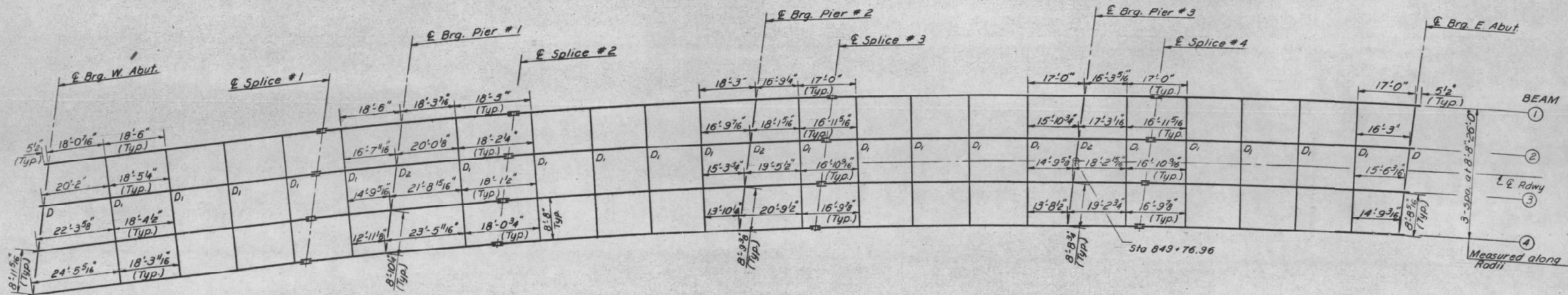
Item	Unit	Total
Jack and Remove Existing Bearings	Each	14
Anchor Bolts 1"	Each	28
Elastomeric Bearing Assembly Type I	Each	14
Furnishing and Erecting Structure Steel	Pound	3770

 Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2265.2	DESIGNED - AAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPE III BEARING DETAILS AT EAST ABUTMENTS STRUCTURE NO. 054-0060 (SB) & STRUCTURE NO. 054-0061 (NB)	F.A.D. RFE 55	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE = 0540060.0061-72E11-36-37-Bearing.gnd	CHECKED - MDC	REVISED -				D6 LOGAN CO BR 2011-1	LOGAN	429	267
	DATE = 12/17/2012	DRAWN - SJS	REVISED -				CONTRACT NO. 72E11			
		CHECKED - MDC	REVISED -		SHEET NO. 37 OF 53 SHEETS		ILLINOIS FED. AID PROJECT			

USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS, SN 054-0060 & 0061 (FOR INFORMATION ONLY)	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			5	(54-4HVB,5HVB)BP	LOGAN	18	13	
	CHECKED -	REVISED -			CONTRACT NO. 72653					
PLOT DATE = 7/16/2024	DATE -	REVISED -			SCALE:	SHEET OF 14 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

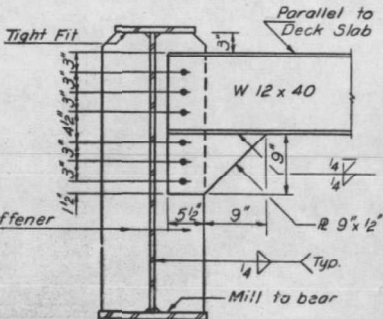
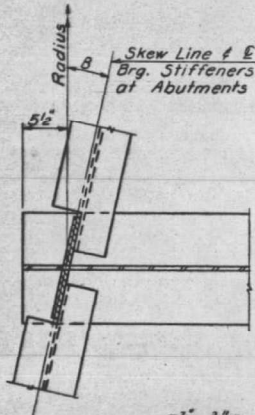
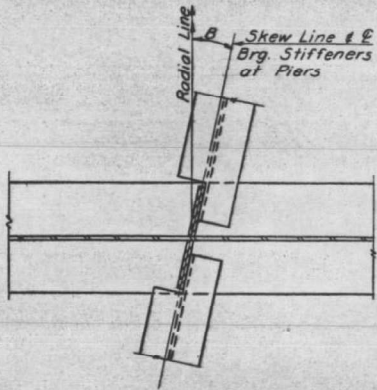
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
54-5HVB	Logan	53	19	24	SHEETS
FED. ROAD DIST. NO. 7	CLIPPER	FED. AID PROJECT			



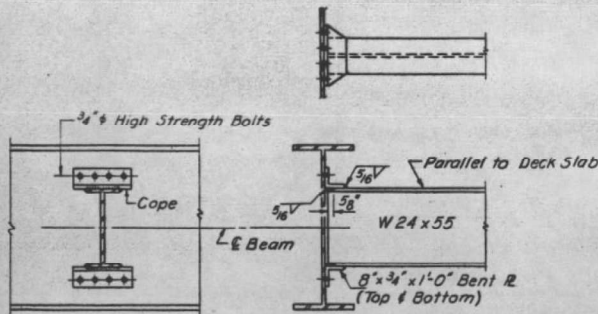
PLAN

ANGLE 'B'

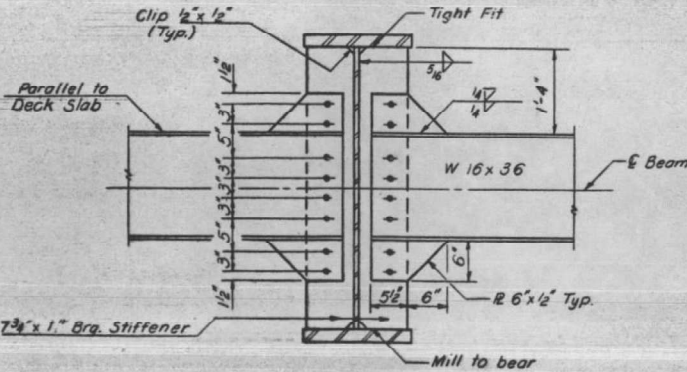
	W. Abut.	Pier 1	Pier 2	Pier 3	E. Abut.
Beam 1	14°12'25"	11°40'29"	9°09'54"	6°50'01"	4°30'48"
Beam 2	14°15'27"	11°42'57"	9°11'50"	6°51'27"	4°31'45"
Beam 3	14°18'30"	11°45'26"	9°13'47"	6°52'53"	4°32'42"
Beam 4	14°21'34"	11°47'56"	9°15'44"	6°54'21"	4°33'39"



DIAPHRAGM D
No. Req'd 6



DIAPHRAGM D₁
No. Req'd 60



DIAPHRAGM D₂
No. Req'd 9

DESIGNED	Suresh T. Desai
CHECKED	Ravi K. Maitra
DRAWN	R. P. Summer
CHECKED	Ravi K. Maitra

EXAMINED	10/10/19
PASSED	
APPROVED	

STRUCTURAL STEEL
F.A.I. RT.55 SEC.54-5HVB
LOGAN COUNTY
STATION 274+58.24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS, SN 054-0062
(FOR INFORMATION ONLY)

SCALE: SHEET OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	15
				CONTRACT NO. 72653

ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E. & L. F. & I. 55	5A- SHVB	Logan	53	20
FED. ROAD DIST. NO. 1		CLIPING	FED. AID PROJECT.	

SHEET NO. 12

24 SHEETS



	Beam 1	Beam 2	Beam 3	Beam 4
α	15°-8'6"	15°-8'6"	15°-8'6"	15°-9'6"
δ	110°-6'6"	110°-6'6"	110°-6'6"	110°-7'6"
B	67°-6'6"	67°-6'6"	67°-6'6"	67°-6'6"
β	109°-6'6"	109°-6'6"	109°-6'6"	109°-6'6"
C	54°-10'6"	54°-10'6"	54°-10'6"	54°-10'6"
β_3	101°-9'6"	101°-9'6"	101°-9'6"	101°-9'6"
D	13°-10'6"	13°-10'6"	13°-10'6"	13°-10'6"
β_4	101°-3'6"	101°-3'6"	101°-3'6"	101°-3'6"
L	424°-0'6"	424°-0'6"	424°-13'6"	424°-2'6"
Radius	2500.870	2492.203	2483.537	2474.870

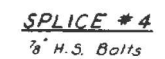
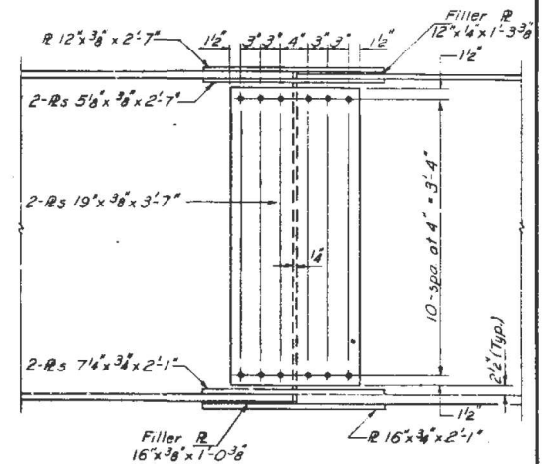
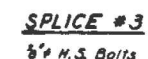
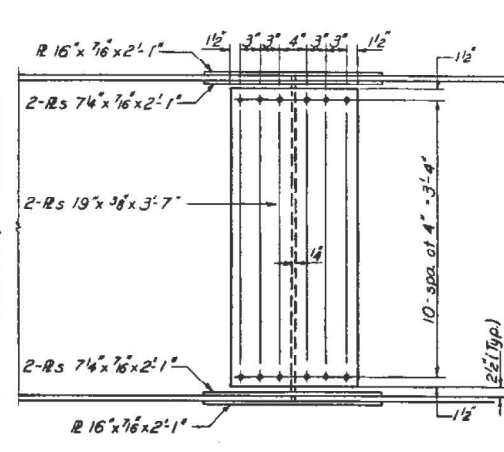
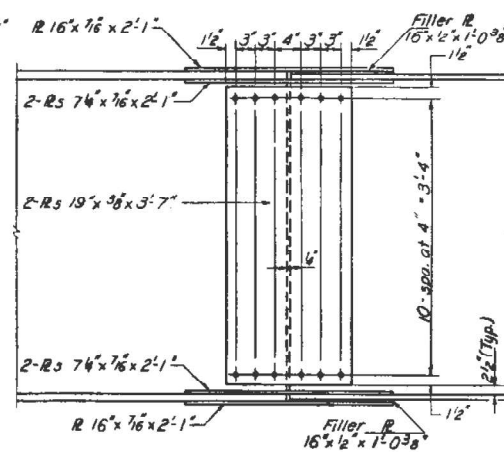
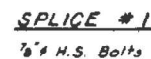
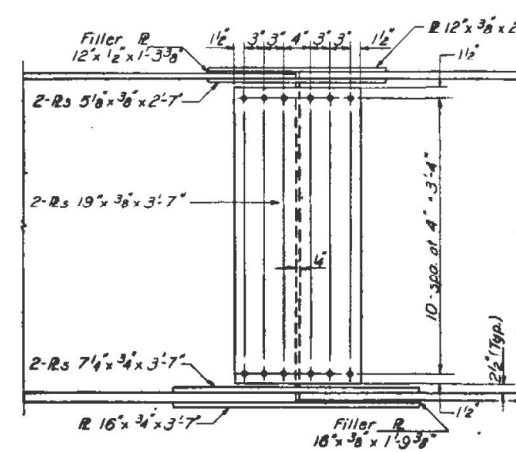


DESIGNED	Suresh T. Desai
CHECKED	Ravik Maittan
DRAWN	R. P. Summer
CHECKED	Ravik Maittan

EXAMINED OK

 PASSED

 APPROVED



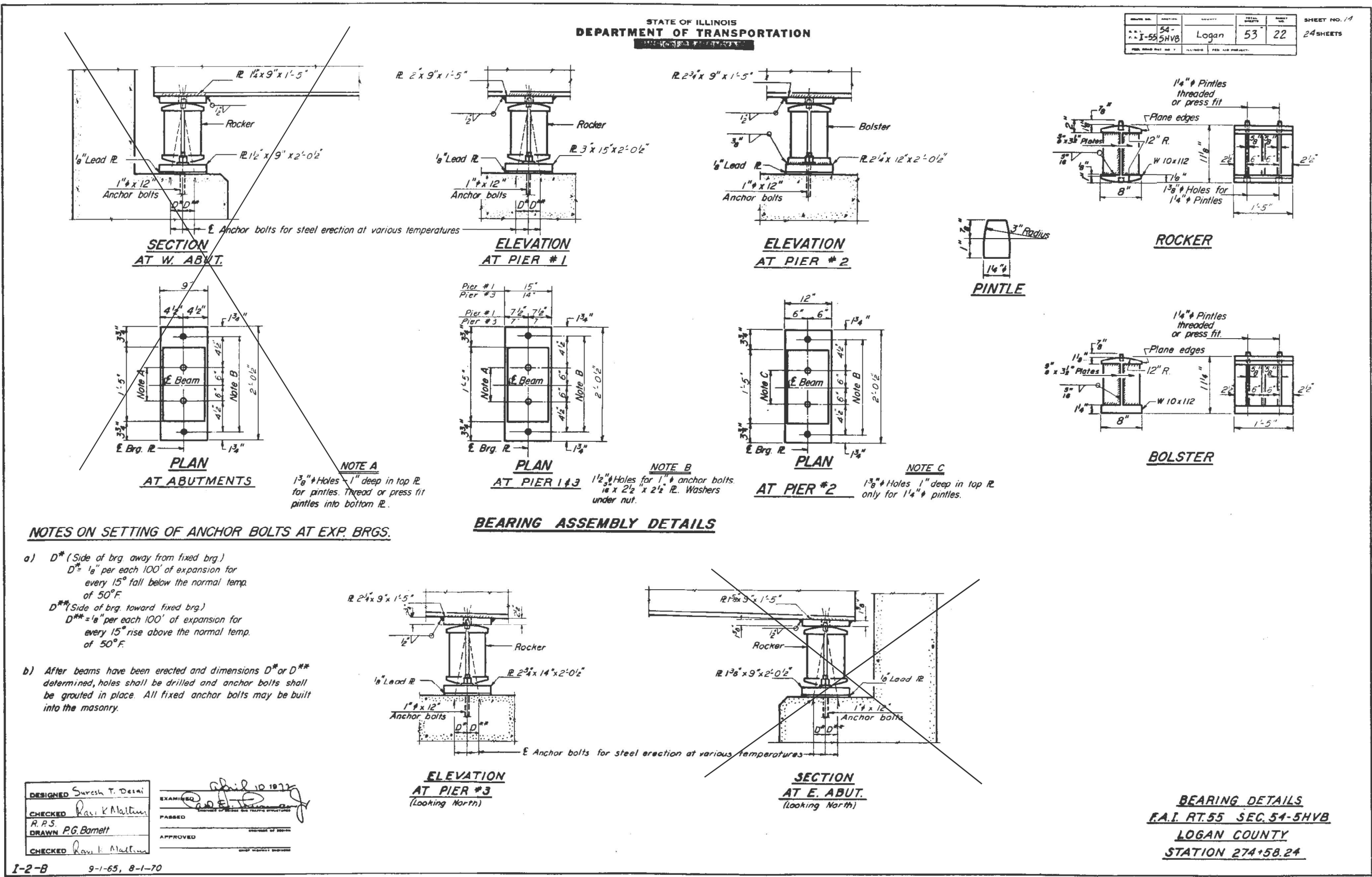
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**EXISTING BRIDGE PLANS, SN 054-0062
(FOR INFORMATION ONLY)**

SCALE:	SHEET	OF 14 SHEETS	STA.	TO STA.
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	16
		CONTRACT NO. 72653		
		ILLINOIS	FED. AID PROJECT	

MODEL: Bridge-13 (Sheet)
FILE NAME: c:\paw\work\bridge\bridge\1021619\0572653-Plansheet.dgn



DESIGNED Suresh T. Desai
CHECKED Ravi K. Maitani
R.R.S.
DRAWN P.G. Barnett
CHECKED Ravi K. Maitani

EXAMINED April 10 1972
PASSED
APPROVED

I-2-B 9-1-65, 8-1-70

BEARING DETAILS
F.A.I. RT.55 SEC.54-5HVB
LOGAN COUNTY
STATION 274+58.24

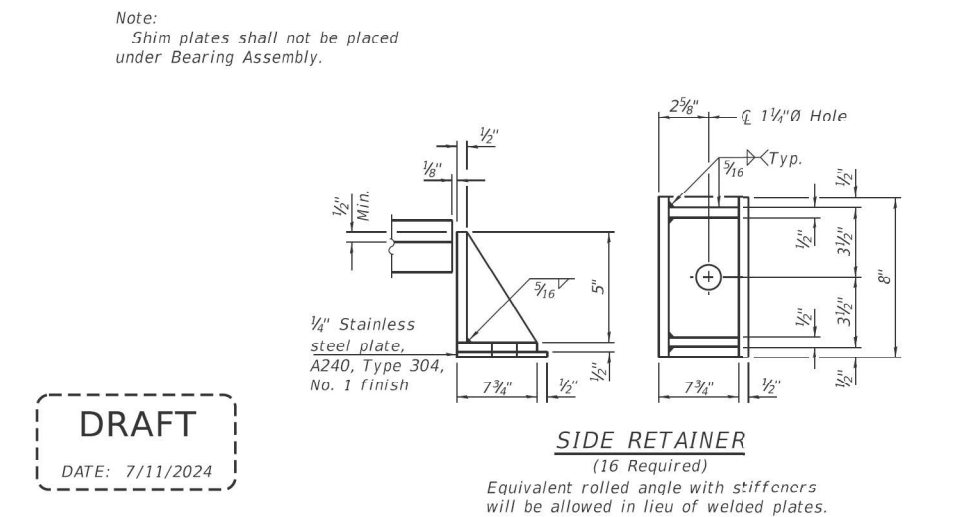
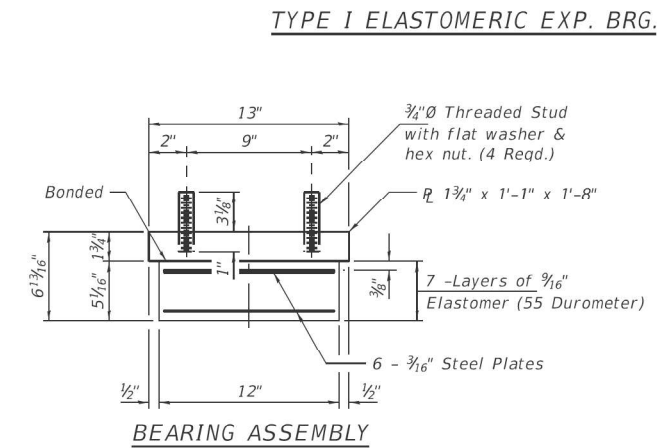
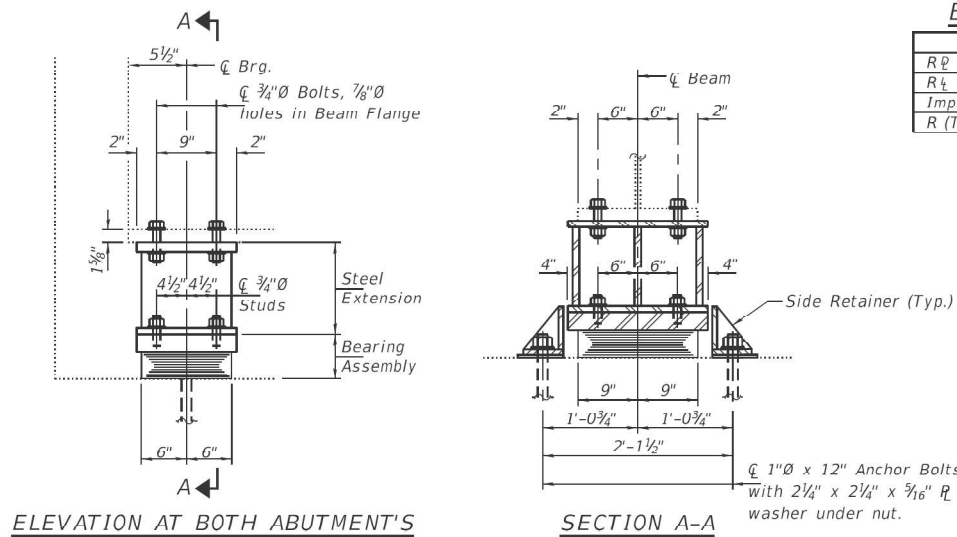
USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 7/16/2024	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS, SN 054-0062
(FOR INFORMATION ONLY)

SCALE: SHEET OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	17
CONTRACT NO. 72653				
ILLINOIS FED. AID PROJECT				



DESIGNED - ATH	EXAMINED	DATE - JULY 11, 2024
CHECKED - JSB	PASSED	REVISED -
DRAWN - Venkat Ramana Reddy		REVISED -
CHECKED - ATH JSB		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT BEARING DETAILS
SN 054 - 0062

SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(54-SHVB)BRR	LOGAN	5	5
CONTRACT NO. 72740				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS, SN 054-0062
(FOR INFORMATION ONLY)

SCALE: SHEET OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	(54-4HVB,5HVB)BP	LOGAN	18	18
CONTRACT NO. 72653				
ILLINOIS FED. AID PROJECT				