STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

D-96-046-24

FOR INDEX OF SHEETS, SEE SHEET NO. 2

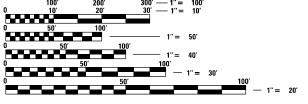
PROPOSED CONTRACT MAINTENANCE

FAI ROUTE 55 (I-55) SECTION (54–5HVB)BRR PROJECT (STATE ONLY) **BRIDGE BEARING REPLACEMENT LOGAN COUNTY**

MC LEAN

C-96-067-24

PROJECT LOCATION SN 054-0062 TR 65A OVER I-55/UPRR/WFR AT LAWNDALE OVERHEAD



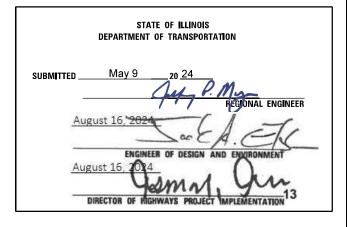
ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

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

GROSS LENGTH = 501 FT. = 0.09 MILE NET LENGTH = 501 FT. = 0.09 MILE

LOCATION OF SECTION INDICATED THUS: -



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 72740

 \bigcirc

 INDEX OF SHEETS
 \$\text{STANDARDS}\$

 1
 \$\text{COVER SHEET}\$
 \$000001-08

 2
 \$\text{INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES}\$
 \$001001-02

 3
 \$\text{SUMMARY OF QUANTITIES}\$
 \$001006

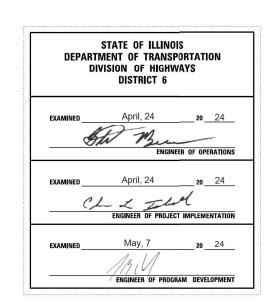
 4-5
 \$\text{SN 054-0062 BRIDGE PLANS}\$
 \$701001-02

 \$\text{701006-05}\$
 \$701101-05

 \$\text{701106-02}\$
 \$701201-05

GENERAL NOTES:

THE CONTRACTOR SHALL CORRECT ELEVATION DIFFERENCES IN THE PROFILE GRADE ACROSS THE EXISTING EXPANSION JOINTS AT THE ENDS OF THE DECK. THIS SHALL BE ACCOMPLISHED BY ADDING SHIM PLATES AT LOCATIONS SHOWN ON THE PLANS. NO MORE THAN 2 SHIM PLATES SHALL BE ADDED TO EACH BEARING LOCATION. HOWEVER, THE CONTRACTOR IS ENCOURAGED TO USE THE MINIMAL NUMBER OF SHIMS AT EACH LOCATION AND MINIMUM SHIM THICKNESS SHALL BE 1/8". THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING DIMENSIONS AND PROPOSE ALL VERTICAL ADJUSTMENTS TO THE ENGINEER PRIOR TO ORDERING THE EXTRA SHIMS. THE ALLOWABLE ELEVATION TOLERANCES BETWEEN THE TWO SIDES OF THE EXPANSION JOINTS SHALL BE ±1/4". RECORDING ACCURATE MEASUREMENTS AND ORDERING PROPERLY SIZED BEARING EXTENSIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



USER NAME = Brandon.Dudley	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 5/9/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

701901-09

IND	EX OF S	HEETS, STANDARD	OS,	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENI	ERAI NO	TES. & SIGNATUR	FC	55	(54-5HVB)BRR	LOGAN	5	2
OLIVI	LIIAL IVO	TLS, & SIGNATOR				CONTRACT	NO. 72	2740
SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

ies\Bridgeplans_CAD\72740 - 0540062 bearings\planshe

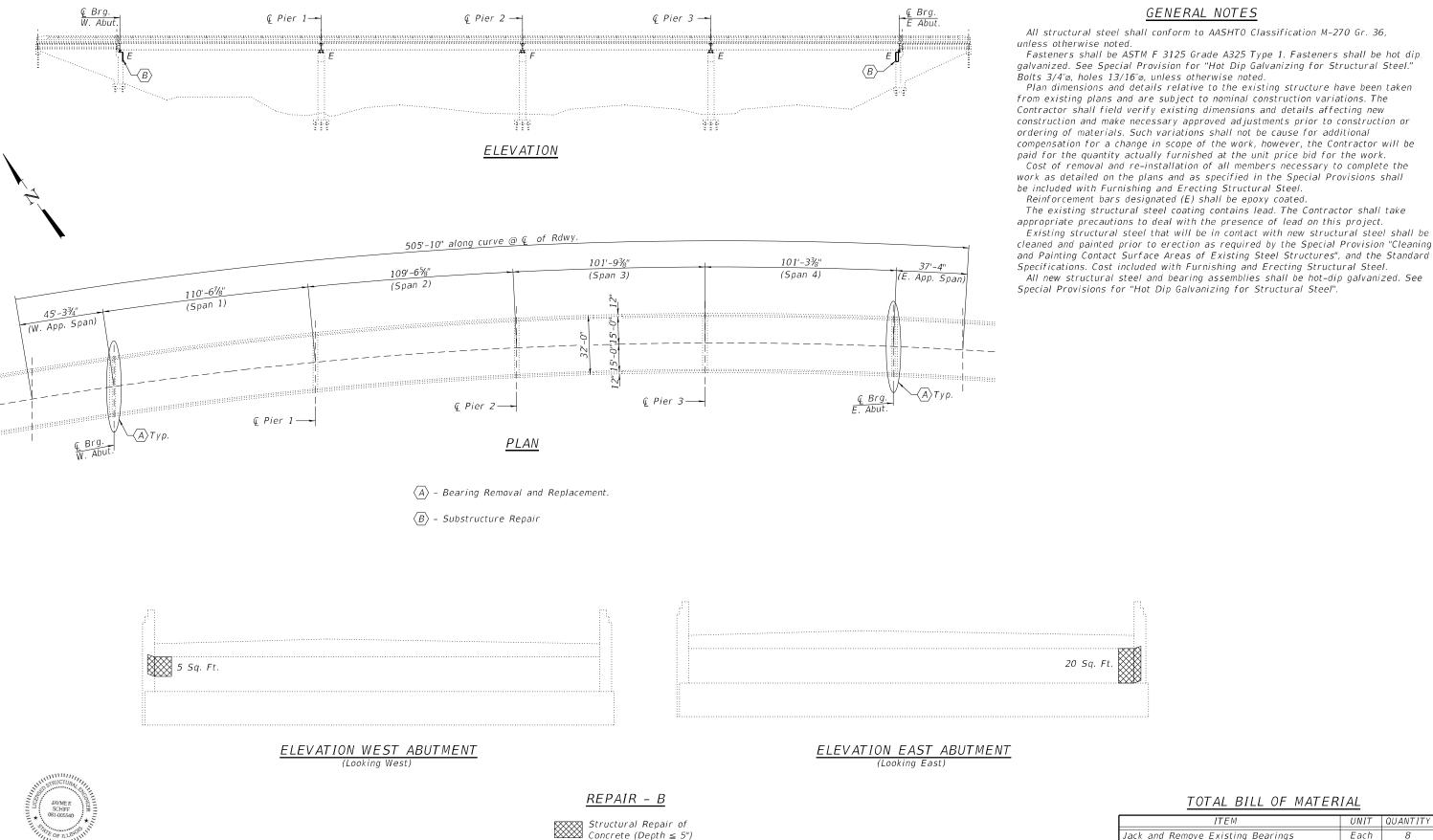
0-02179-6012
SN 054-0062
100% STATE

				BRIDGE/RURAL
CODE	T.T.L.		TOTAL	0013
NO.	ITEM	UNIT	QUANTITY	LOGAN
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1,880	1,880
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	8	8
52100520	ANCHOR BOLTS, 1"	EACH	12	12
67100100	MOBILIZATION	L SUM	1	1
			-	-
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
10100430	THAT TO CONTROL AND THOTESTON, STANDARD TOTZOT	L 30W	•	1
70001000		o		
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	8	8
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	25	25
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
			<u> </u>	

REV. - MS

USER NAME = Brandon.Dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/9/2024	DATE -	REVISED -

SCALE:



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DATE - AUGUST 16, 2024

REVISED

Expires: 11/30/2024

CHECKED - Adrian T. Halloway

DRAWN - Venkat Ramana Reddy

ATH

EXAMINED

PASSED

DESIGNED - Victor H. Veliz

CHECKED - VHV

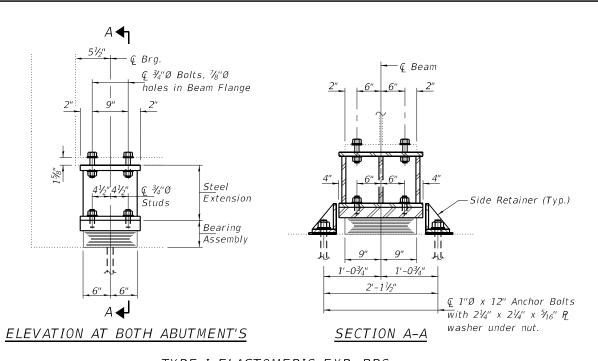
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Jack and Remove Existing Bearings	Each	8
Elastomeric Bearing Assembly, Type I	Each	8
Furnishing and Erecting Structural Steel	Pound	1880
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	25
Anchor Bolts, 1"Ø	Each	12

All Steel to be galvanized.

GENERAL PLAN AND ELEVATION
TR 65A OVER I-55/UP RR/W FR RD
SN 054-0062
SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE
55	(54-5HVB)BRR		LOGAN	5	4
			CONTRACT	NO. 727	7 40
	ILLINOIS	EED AL	D DDO IECT		



BEAM REACTIONS

		E.Abut.	W.Abut.
R₽	(K)	57.7	62.6
R Ł	(K)	38.0	38.3
Imp.	(K)	8.1	8.0
R (Total)	(K)	103.8	109.0

⊈ Brg. W. Abut.

W. Abut

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 65 Tons.

Anchor bolts shall be ASTM F1554 (Grade 55) all-thread. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

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

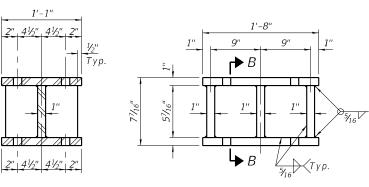
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

E. Abut

-Ç Beam

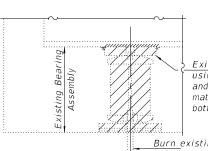
€ 1/8"Ø Holes

PLAN TOP AND BOTTOM PLATE



SECTION B-B

STEEL EXTENSION DETAIL



Existing Pt to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

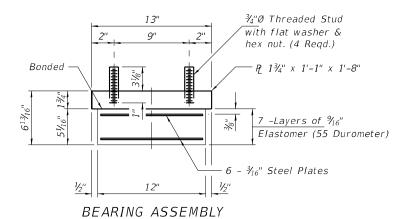
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

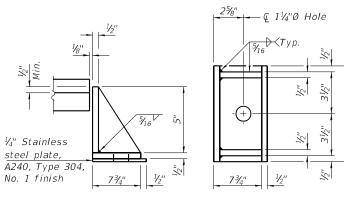
BILL OF MATERIAL

it Total
ch 8
ah 8
nd 1880
h 12

TYPE I ELASTOMERIC EXP. BRG.



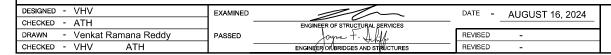
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

(12 Required)

(Omit Side Retainers on the outside of the fascia girders) Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **BEARING DETAILS** SN 054-0062 SHEET NO. 2 OF 2 SHEETS

SECTION COUNTY (54-5HVB)BRR LOGAN 5 5 55 CONTRACT NO. 72740

ANCHOR BOLT LOCATION SKETCH