

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED CONTRACT MAINTENANCE



JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 Or 811

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

GROSS LENGTH = XXX FT. = X.XX MILE NET LENGTH = XXX FT. = X.XX MILE

CONTRACT NO. 72742

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D-96-049-24

NDEX OF SHEETS	STANDARDS
COVER SHEET INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES SUMMARY OF QUANTITIES -5 SN 068-0047 BRIDGE PLANS -7 SN 068-0050 BRIDGE PLANS	000001-08 001001-02 001006 701001-02 701006-05 701101-05 701106-02 701201-05
	701901-09

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 -		INDEX OF SHEETS, S GENERAL NOTES, &	STANDARDS		F.A.I. BTE	SECTION	COUNTY	TOTAL SHE	ΞT.			
	DRAWN -	REVISED -	STATE OF ILLINOIS							55	(68-1HB-2,3)BRR	MONTGOMERY	r 7 2	-
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, & SIGNATURES						CONTRACT	T NO. 72742			
PLOT DATE = 5/9/2024	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		_

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6							
EXAMINED	April, 24						
	April, 24						
EXAMINED	May, 7	20 24					

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			F	SN 068-0047	SN 068-0050
				100% STATE	100% STATE
				BRIDGE/URBAN	BRIDGE/URBAN
CODE			TOTAL	0013	0013
NO.	ITEM	UNIT	QUANTITY	MONTGOMERY	MONTGOMERY
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3,380	1,770	1,610
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	18	10	8
52100520	ANCHOR BOLTS, 1"	EACH	36	20	16
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	18	10	8
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USER NAME = Brandon.Dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS						F.A.I.	SECTION	COUNTY TOTAL	SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES					55	(68-1HB-2,3)BRR	MONTGOMERY 7	3
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT NO. 7	72742
PLOT DATE = 5/9/2024	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.		TO STA.		ILLINOIS FED. 4	ID PROJECT	

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Notes:

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 = 50 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.

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SHEET NO. 1 OF

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Jack and Remove Existing Bearings	Each	10
Elastomeric Bearing Assembly, Type 1	Each	10
Furnishing and Erecting Structural Steel	Pound	1770
Anchor Bolts, 1"Ø	Each	20

All Steel to be galvanized.

DETAILS IR 1-55		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
		5 (68-1HB-2,3)BRR			MONTGOMERY	7	4	
0047					CONTRACT NO. 72742			
1 SHEETS			ILLINOIS	FED. A	D PROJECT			



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GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts. Bolts $3/4^{"}$, holes $13/16^{"}$, unless otherwise noted.

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

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures", and the Standard Specifications. Cost included with Furnishing and Erecting Structural Steel. All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".



R₽	(K)	38.03
R <u>4</u>	(K)	50.03
Imp.	(K)	7.56
R (Total)	(K)	95.62

¹/_W Abut.
²/_E Brg.
¹/_E. Abut.
¹/_E.
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PARTIAL FRAMING PLAN

 $\langle A \rangle$ - Bearing Removal and Replacement.

STATE OF ILLINOIS PARTMENT OF TRANSPORTATION	BEARING DETAILS TR 48 OVER 1-55	F A U RTE 8240	SECTION (68-1HB-2,3)BRR	COUNTY MONTGOMERY	SHEETS	SHEET NO. 5
	SN 068 - 0050 SHEET NO. 1 OF 1 SHEETS			CONTRACT	NO. 72	742
	SHEEL NO. F OF F SHEETS		ILLINOIS FED. AI	D PROJECT		



Notes:

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 = 60 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.

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	1610
Anchor Bolts, 1"Ø	Each	16
All Stool to be aplyopized		

All Steel to be galvanized.

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DESIGNED - VHV	EXAMINED		DATE - JUNE 25, 2024			F.A.U.	SECTION	COUNTY	TOTAL SHEET
CHECKED - ATH	-	ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	BLANK SHEET	8240	(68-1HB-2,3)BRR	MONTGOMERY	7 6
DRAWN - Venkat Ramana Reddy	PASSED	Jayne F. All	REVISED -	DEPARTMENT OF TRANSPORTATION			,	CONTRACT	NO. 72742
CHECKED - VHV ATH			REVISED -		SHEET NO. 1 OF 1 SHEETS		ILLINOIS FED	FED. AID PROJECT	

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DESIGNED - VHV	EXAMINED		DATE - JUNE 25, 2024			F.A.U.	SECTION	COUNTY TOT	JTAL SHEET
CHECKED - ATH		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	BLANK SHEET	8240	(68-1HB-2,3)BRR	MONTGOMERY 7	7 7
DRAWN - Venkat Ramana Reddy	PASSED	Jayne F. All	REVISED -	DEPARTMENT OF TRANSPORTATION			(, ,	CONTRACT NO.	J. 72742
CHECKED - VHV ATH		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 1 OF 1 SHEETS	ILLINOIS FED. AID PROJECT			