$A \blacktriangleleft_1$ € 34"\$ Bolts. 78"\$ holes in Beam Flange Shim P 12" x 7'2" x 38" at beam 3 only. .9 Bearina Assembly 'B'' elastomeric neoprene leveling pad according to the material properties $A \blacktriangleleft J$ of Article 1052.02(a) of the Standard Specifications. Cost included with Elastomeric Bearing Assembly Type II.

TYPE II TFE ELASTOMERIC EXP. BRG.

³₄′′¢ <u>Th</u>readed Stud

with flat washer &

hex nut. (4-Reqd.)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation. 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. Min. jack capacity = 25 Tons. Anchor bolts shall be ASTM F1554 all-thread (or an

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM-F1554.

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

members are in place. Side retainers shall be placed

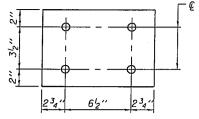
after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers shall be included in the cost of

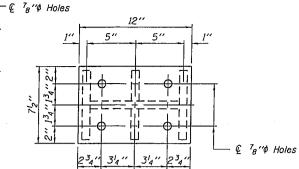
Elastomeric Bearing Assembly, Type II.

The 'g'' 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.

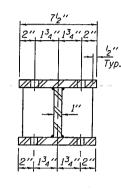
Bonding of 'a" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. Fasteners shall be high strength bolts.

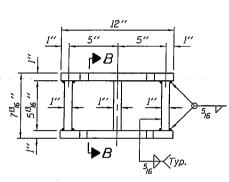


SHIM PLATE P. 12" x 7'2" x 38' (2 Required)



PLAN TOP AND BOTTOM PLATE

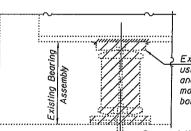




SECTION B-B

— € Top Brg.

STEEL EXTENSION DETAIL

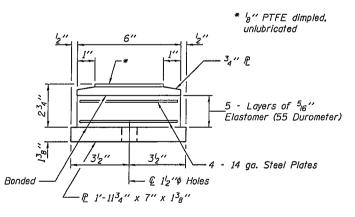


Existing & to be removed using the gir-arc method and grind smooth all weld material remaining on the bottom flange.

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

TOP BEARING ASSEMBLY

ELEVATION AT ABUTMENT



-¦_K" Stainless Steel

SECTION THRU PTFE

— ⊈ Beam

5"

1'-1134"

SECTION A-A

ОО

0 0

18" PTFE with dimpled,

unlubricated surface

000

0

 \circ

PLAN-PTFE SURFACE

10"

 $\frac{1}{4}$ "\$\phi\$ Dimples on $\frac{1}{2}$ " centers $\frac{1}{4}$ " deep, or equivalent.

deep, or equivalent.

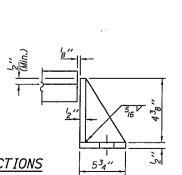
10"

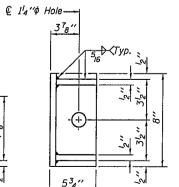
Side Retainer (Typ.)

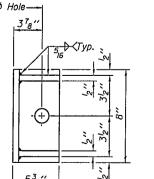
1½''ゆ Holes in bottom 尼.

C 1" ϕ x 12" Anchor Bolts with C 4" x C C washer under nut.

PTFE Surface







$D = {}^{l}_{B}$ " per each 100' of expansion for every 15° temp.

— € Top Brg.

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

<u> </u>			
[tem	Unit	Total	
Elastomeric Bearing Assembly, Type II	Each	10	
Jack and Remove Existing Bearings	Each	10	
Furnishing and Erecting Structural Steel	Pound	1090	
Anchor Bolts 1"\$	Each	20	

REPAIR DETAILS CH 19 OVER I-72 SN 010-0146

TOTAL SHEET SHEETS NO. F.A.I. RTE. SECTION COUNTY SHEET NO. 13 (10-71HB)BDR,BJR CHAMPAIGN 14 9 3 SHEETS CONTRACT NO. 70865 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

BOTTOM BEARING ASSEMBLY

DESIGNED	GGE	
CHECKED	ATH	EXAMINED
DRAWN	baliva	PASSED Ralp
CHECKED	GGE ATH	ENGINE

TYII/REPS 12-03-2008

APRIL 13, 2010

BEAM REACTIONS 11.6 (K) 31.0 (K) 9.3 (K)

SIDE RETAINER Equivalent rolled angle with stiffeners

will be allowed in lieu of welded plates.

€ Bott. Bra. € Bott. Bra.

BELOW 50° F. ABOVE 50° F. (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

change from the normal temp. of 50°F.