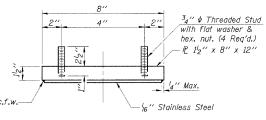
\rightarrow A STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION € Brg. - 5'2" Beam End Field drill 78" \$\phi\$ holes for 34" \$ H.S. Bolts in Bottom Flange Cost included with F. & E. Structural steel Side Retainer (Typ.) € 34" Ø Studs Extension Bearina Assembly Shim P 1034" 1034" '8" elastomeric neoprene leveling pad according to the material properties of/ € 1" Ø x 12" Anchor bolts with 2^{1} 4^{1} 12^{1} Anchor bons will -2^{1} 4" \times 2^{1} 4" \times 2^{1} 6" \times Washer under nut. 1^{1} 4" \times Holes in bottom \times 2. Article 1052.02(a) of the Standard Specifications, Cost included with Elastomeric Bearing Assembly Type II.

SECTION A-A

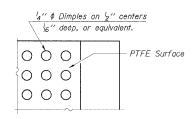
TYPE II ELASTOMERIC EXP. BRG.



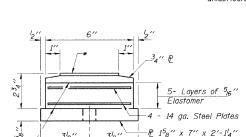
ELEVATION AT ABUTMENTS

TOP BEARING ASSEMBLY

*1₈" PTFE dimpled, unlubricated



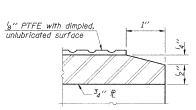
PLAN-PTFE SURFACE



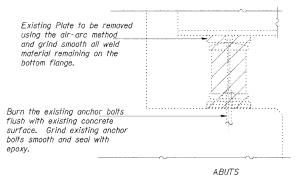
- € 1'4" \$ Holes

BOTTOM BEARING ASSEMBLY

Bonded-

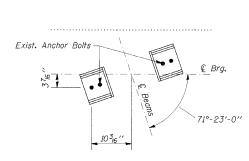


SECTION THRU PTFE



EXISTING BEARING REMOVAL DETAIL Cost is included with Jack and Remove

Cost is included with Jack and Remov Existing Bearings



Anchor bolts shall be ASTM F1554 all-thread (or an

in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom

bearing plate after members are in place. Side retainers

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

Bonding of ${}^{l}_{8}$ " PTFE sheet during vulcanizing process will be permitted provided the process and method of

adjusting assembly height is approved by the Engineer. The minimum jack capacity required is 30 Tons. Existing cross frame removal and reinstallation may be required to facilitate drilling holes, cost to be included with "Jack and Remove Existing Bearings".

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

New steel extensions, connection bolts, Fill £'s and Shim £'s are included in "Furnishing and Erecting

Two $^{l}_{\mathcal{B}}$ in. adjusting shims shall be provided for each bearing

in addition to all other plates or shims and placed as shown on

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 bearing assembly shall be included in the cost of

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

shall be placed after bolts are installed.

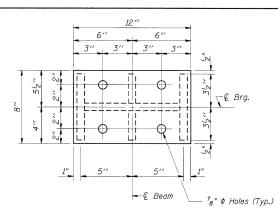
surfaces.

bearing details.

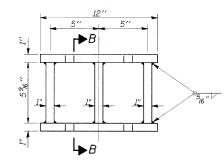
Structural Steel".

ANCHOR BOLT LAYOUT

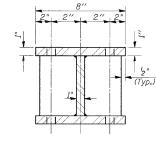
GIRDER REACTIONS



PLAN-TOP & BOTTOM PLATE



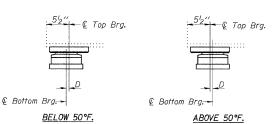
STEEL EXTENSION DETAIL



SECTION B-B

SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



(Move bottom. brg. away from fixed brg.) (Move bottom. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

 $D={}^{l}g^{\prime\prime}$ per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL (Both Abuts.)

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	18
Anchor Bolts, 1"	Each	36
Jack and Remove Existing Bearings	Each	18

BEARING DETAILS STRUCTURE NO. 077-0027

FILE NAME =	USER NAME = cornellim	DESIGNED -	REVISED -			BEARING DETAILS		F.A.I.	SECTION	COUNTY	TOTAL SHEET
cs\pw_work\PWIDOT\CORNELLLM\dms47925\@	44-0031-bsmart.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				24/57 D	9 BSMART FY09-1	JOHNSON/PUL ASK	(I 20 10
· ·	PLOT SCALE = 1.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 077-0027			CONTRACT NO. 78095			
	PLOT DATE = 2/27/2009	DATE -	REVISED ~		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS	FED. AID PROJECT	