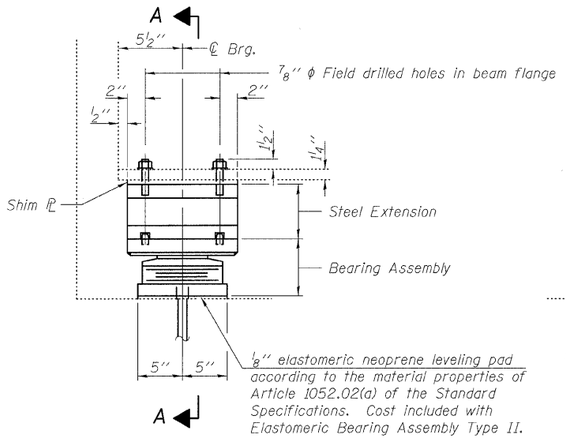
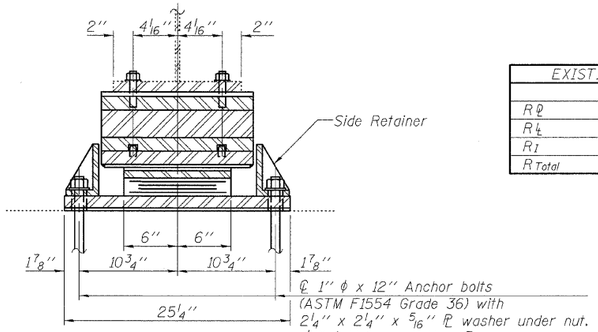
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

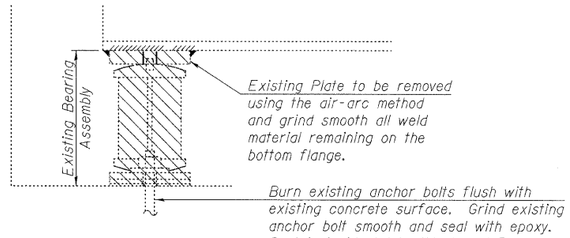


ELEVATION AT ABUT.



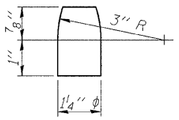
SECTION A-A

EXISTING GIRDER REACTION TABLE			
		W. or E. Abut.	Pier 1 or Pier 3
R℘	(k)	28.5	99.5
R℄	(k)	38.0	52.8
R1	(k)	9.9	13.0
R Total	(k)	76.4	165.3



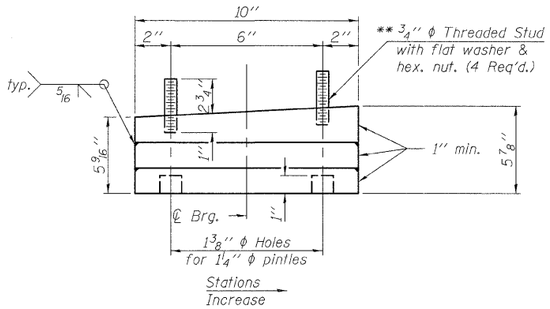
EXISTING BEARING REMOVAL DETAIL

TYPE II ELASTOMERIC EXP. BRG.



PINTLE

** ¾" ϕ Threaded studs shall be placed in the field.



ELEVATION VIEW STEEL EXTENSION

Notes:

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

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 in the concrete through holes in the bottom bearing plate after existing beams have been reset. 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 bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

Steel extensions and threaded studs shall be included in the cost of Furnishing and Erecting Structural Steel.

The ⅛" 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.

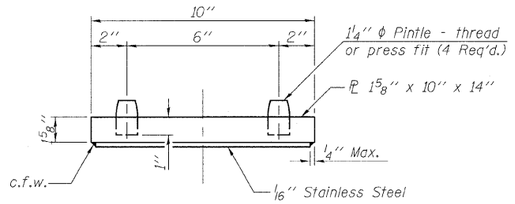
Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

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

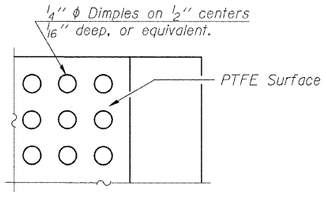
Minimum jack capacity = 60 Tons.

Existing bearings shall be removed and replaced under traffic.

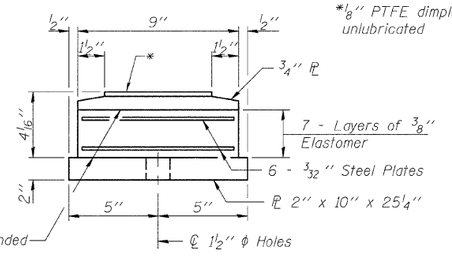
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.



TOP BEARING ASSEMBLY

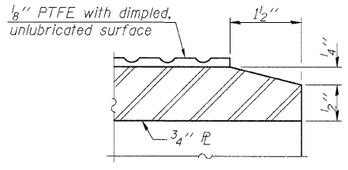


PLAN-PTFE SURFACE

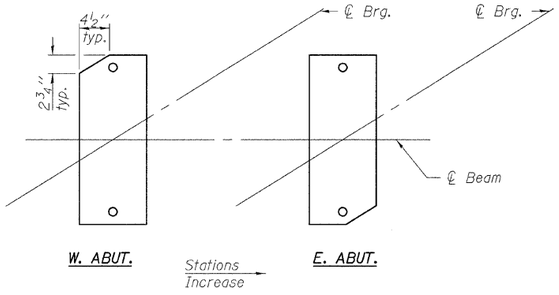


*⅛" PTFE dimpled, unlubricated

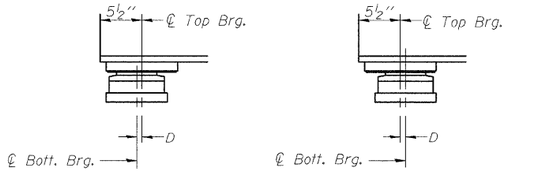
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



BOTTOM BEARING ASSEMBLY CLIP DETAIL



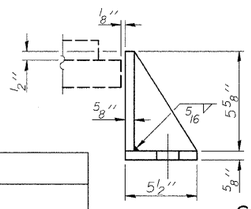
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F.

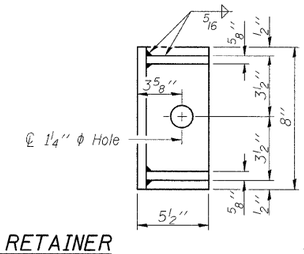
BILL OF MATERIAL
TWO STRUCTURES

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	7,480
Jack and Remove Existing Bearing	Each	32
Elastomeric Bearing Assembly Type II	Each	32
Anchor Bolts, 1"	Each	64

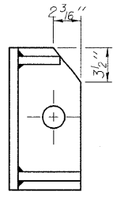
ABUTMENT BEARING DETAILS
STRUCTURE NO. 060-0012 (E.B.)
STRUCTURE NO. 060-0013 (W.B.)



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



SIDE RETAINER CLIP DETAIL



DESIGNED	EML
CHECKED	JJD
DRAWN	EML
CHECKED	JJD

HORNER & SHIFRIN, INC.
ENGINEERS

SHEET NO. 8	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14 SHEETS	70	60-(5,6,7)RS, 60-(6,7)BR	MADISON	185	122
			CONTRACT NO. 76C56		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		