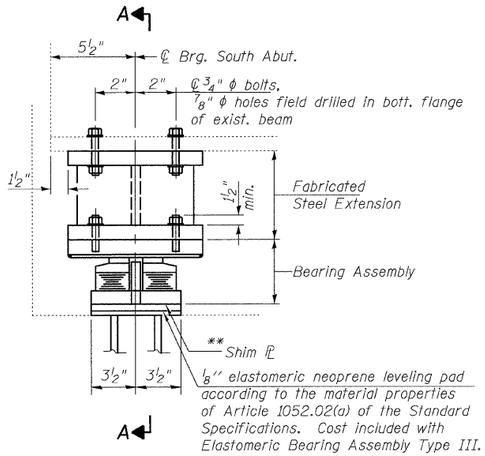
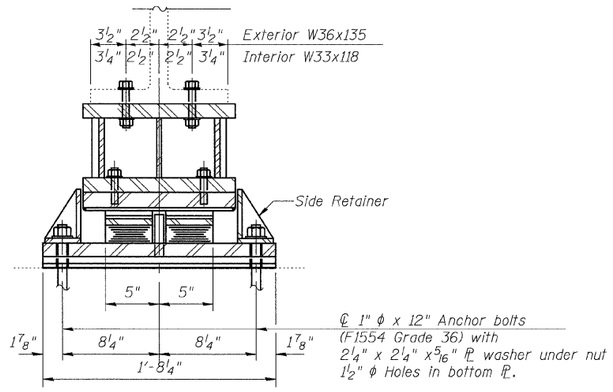
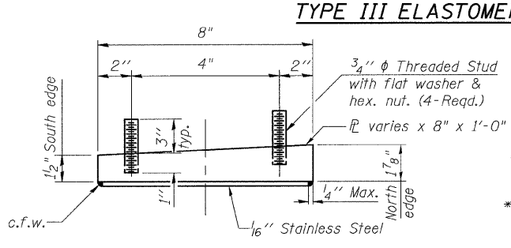



ELEVATION AT S. ABUT.




SECTION A-A

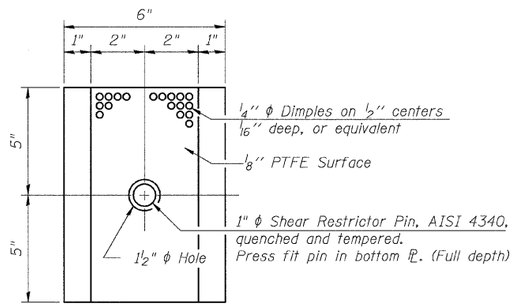
TYPE III ELASTOMERIC EXP. BRG.



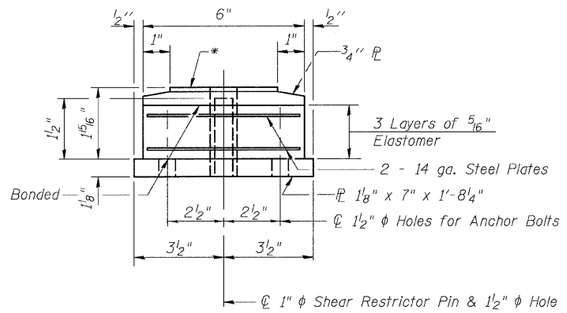

TOP BEARING ASSEMBLY

* ⅛" PTFE dimpled, unlubricated

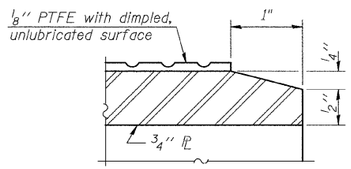
** 7" x 1'-8¼" x t
t = ⅜" at Beam #3
t = ¾" at Beam #4
t = ½" at Beam #5
t = ⅞" at Beam #6



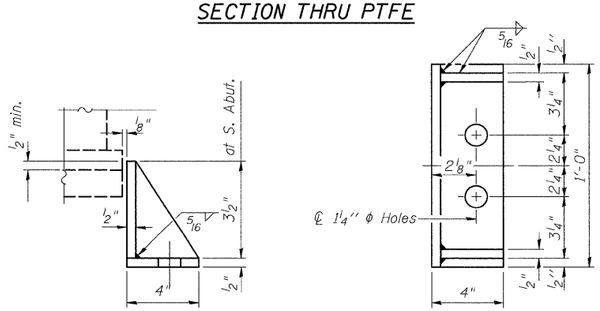

PLAN-PTFE ELASTOMERIC BRG.




BOTTOM BEARING ASSEMBLY

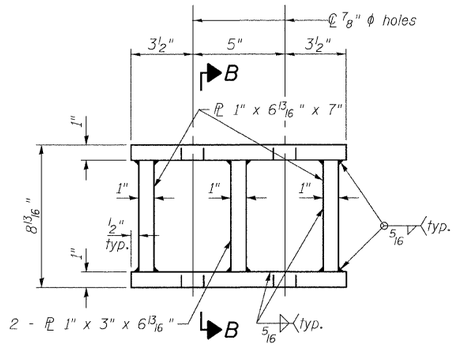



SECTION THRU PTFE

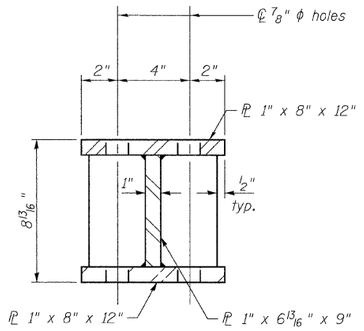



SIDE RETAINER

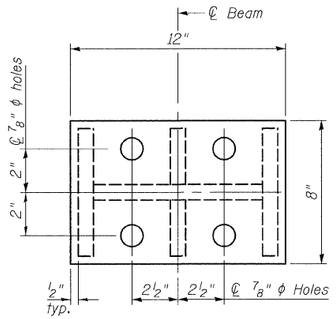
*Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.*



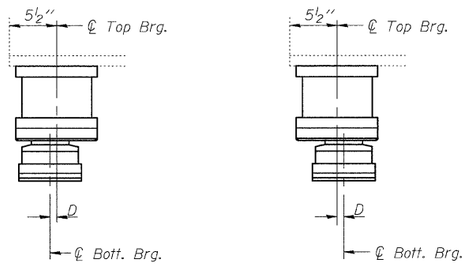

ELEVATION FABRICATED STEEL EXTENSION




SECTION B-B




PLAN FABRICATED STEEL EXTENSION




BELOW 50° F. (Move bottom brg. away from fixed brg.)

ABOVE 50° F. (Move bottom brg. toward fixed brg.)

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.*

*Notes:*

*See Sheet 29 of 49 for Existing Bearing Removal Detail and Jack and Remove Existing Bearing Procedures.*

*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 III bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate. 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 III.*

*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. Cost included in Elastomeric Bearing Assembly Type III.*

*The cost of field drilling holes in bottom flange of exist. beams is included in Elastomeric Bearing Assembly, Type III.*

****Fabricated Steel Extensions*

BILL OF MATERIAL

| | Item | Unit | Total |
|---|---|---|---|
| | Elastomeric Bearing Assembly Type III | Each | 8 |
| | Anchor Bolts, 1" | Each | 32 |
| *** | Furnishing and Erecting Structural Steel | Pound | 924 |
| | Jack & Remove Existing Bearing | Each | 8 |

BEARING DETAILS-S. ABUTMENT
STRUCTURE NO. 058-0014


Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703


| | |
|---|---|
| PROJECT NO. | 07086 |
| SCALE | |
| DATE | / / |
| DESIGN BY | CME |
| DRAWN BY | TFG |
| CHECKED BY | CME/MCB |

I-2E-3 10-1-08

| SHEET NO. 28 | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 49 SHEETS | 710 | (5OZ-VB)BR | MACON | 79 | 54 |
| | | | CONTRACT NO. 74215 | | |
| | FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | | |


FILE NAME X:\CHIEF\2007\07017\acad\Plans\BL0006R-006\BD580014-74215-028-bearing-details-s-abut.dgn