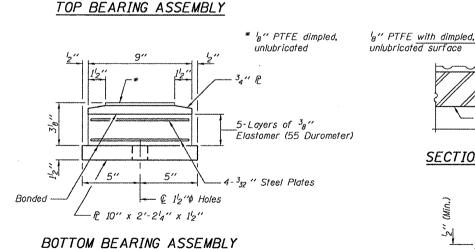


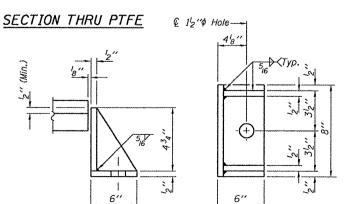
TYPE II TFE ELASTOMERIC EXP. BRG.

## 10" 34'4 Threaded Stud with flat washer & hex nut. (4-Read.) " Stainless Steel

#### 14" Dimples on 2" centers deep, or equivalent. PTFE Surface 0000 000

### PLAN-PTFE SURFACE





# SIDE RETAINER

# @ Bott, Bra. (Move bott, brg. away from fixed brg.) (Move bott, brg. toward fixed brg.)

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

## REAM REACTIONS

| R₽        | (K) | 28.9 |
|-----------|-----|------|
| RŁ        | (K) | 38.7 |
| Imp.      | (K) | 10.4 |
| R (Total) | (K) | 78.0 |

Diaphragm removal and reinstallation may be required to Diaphi agin removal and remislation 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.

Min. jack capacity = 45 Tons.

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

Engineer-approved alternate material) of the grade(s) 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 11 bearings shall be placed in holes drilled through the bottom bearing plate after

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.

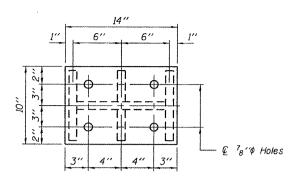
The 'g'' PTFE sheet shall be bonded directly to the

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

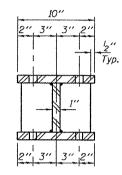
Bonding of 18" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

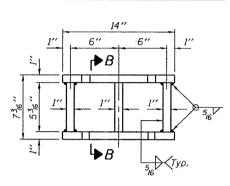
.5½" - & Top Brg.

BELOW 50° F.



#### PLAN TOP AND BOTTOM PLATE





#### SECTION B-B

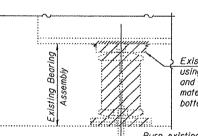
:5½" € Top Brg.

€ Bott. Brg.

SETTING ANCHOR BOLTS AT EXP. BRG.

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

#### STEEL EXTENSION DETAIL



Existing & to be removed using the air-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.

#### EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

#### BILL OF MATERIAL

| Item  | Unit  | Total |
|---|-------|-------|
| Elastomeric Bearing<br>Assembly, Type II    | Each  | 10    |
| Jack and Remove<br>Existing Bearings        | Each  | 10    |
| Furnishing and Erecting<br>Structural Steel | Pound | 1450  |
| Anchor Bolts 1"¢                            | Each  | 20    |

#### ELASTOMERIC BEARING DETAILS IL-165 OVER MACKINAW RIVER SN 057-0110

| SHEET NO. 2 | F.A.S.<br>RTE. | A.S. SECTION      |                 | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|-------------|----------------|-------------------|-----------------|------------|-----------------|--------------|--|
|             | 2484           | (125,126,127)RS-2 |                 | McLEAN     | 122             | 40           |  |
| 8 SHEETS    |                |                   |                 | CONTRACT   | NO. 70510       |              |  |
|             | FED. RO        | DAD DIST. NO.     | ILLINOIS FED. A | ID PROJECT |                 |              |  |

#### 0570110.dgn 02-Mar-10 10:56:30

CHECKED (1)

TYII/REPS 12-03-2008

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