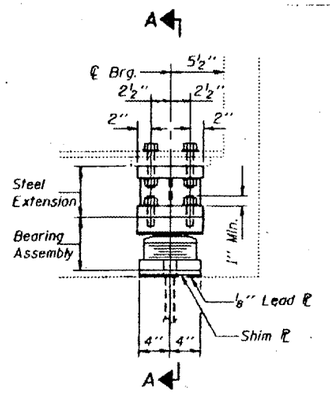
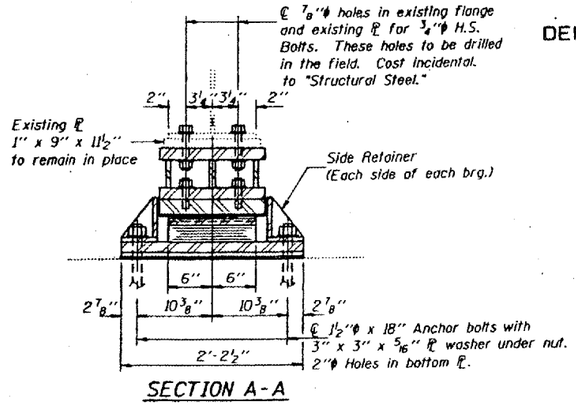
CONTRACT NO.: 98881
ROUTE: VARIOUS
COUNTY: VARIOUS
SECTION: D-9 CONTRACT MAINTENANCE 05-7
F.A.I. 57
SHEET NO.: 31 OF 31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

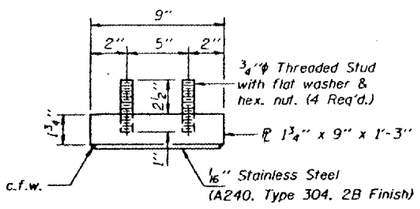


ELEVATION AT S. ABUT.

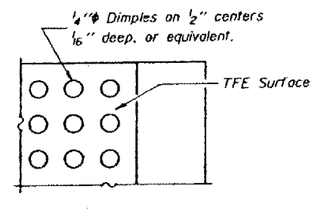


SECTION A-A

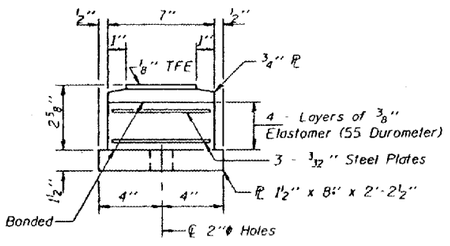
TYPE II TFE ELASTOMERIC EXP. BRG.



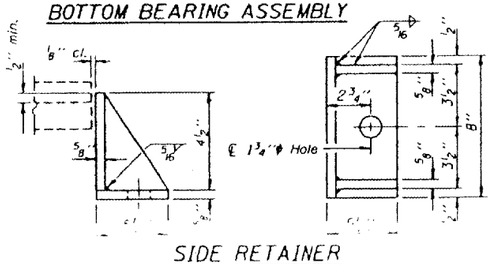
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE

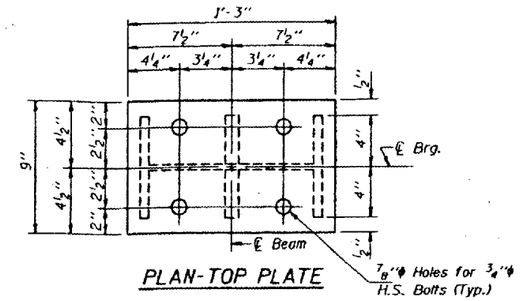


BOTTOM BEARING ASSEMBLY

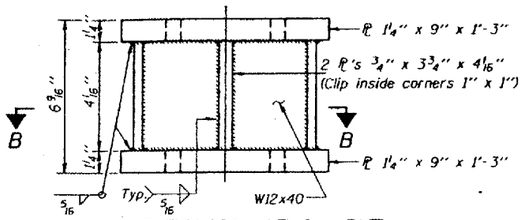


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

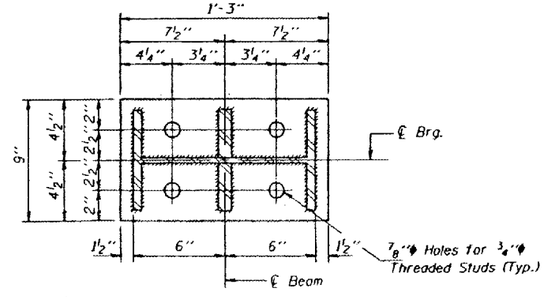


PLAN-TOP PLATE

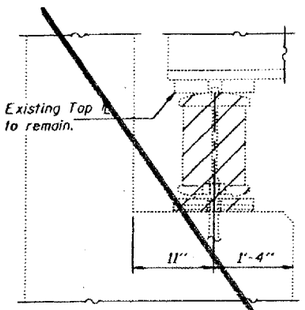


STEEL EXTENSION AT S. ABUT.

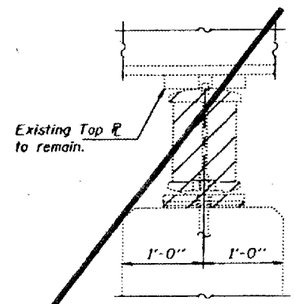
Equivalent welded plates will be allowed in lieu of W12x40 section.



SECTION B-B



AT ABUTMENTS



AT PIERS

JACK AND REMOVE EXISTING BEARING

Hatched areas indicate Removal of Existing Bearing. See sheets #3, #4 & #5 of 6 for new brg. details. Jacks shall be placed under existing beams and cribbing shall be provided.

JACK AND REMOVE EXISTING BEARING PROCEDURE

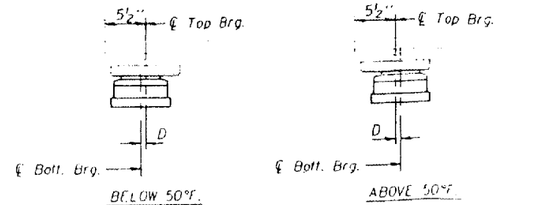
1. The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings. Dead Load = 20.0K at each beam at abutments and 57.0K at each beam at piers. Min. Jack Capacity at each beam shall be 50 Tons.*
2. Jacking and removing existing bearings shall be done in stages.
3. Jacking shall be limited to a maximum of ⅛".
4. Remove the existing anchor bolts flush with the concrete surface and grind smooth. The rockers and bottom plates shall be removed, leaving the existing top plate intact.
5. The new bearings and steel extensions shall be installed in place before the jacks are lowered.

* Includes effect from live load.

Notes: For anchor bolt installation details see sheet #6 of 6.

Note: The ⅛" TFE 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" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



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

DESIGNED	
CHECKED	
DRAWN	R. Doty
CHECKED	SDS AYU

EXAMINED May 16 1994
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

TWO STRUCTURES
BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	12
Elastomeric Bearing Assembly, Type II	Each	12

FOR INFORMATION ONLY:

BRIDGE NO. 7 STRUCTURE 077-0013

BRIDGE NO. 8 STRUCTURE 077-0014