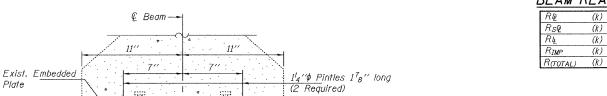
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



- Side Retainer (Typ.)

€ 14" x 1'-3" Anchor bolts with

 $1^{3}4''$ \$\phi\$ holes in bottom P.

after bolts are installed.

Notes:

 $2^{3}4^{\prime\prime\prime} \times 2^{3}4^{\prime\prime\prime} \times 5_{16}^{\prime\prime\prime} \mathbb{R}$ washer under nut.

Prior to ordering any material, the Contractor shall verify

in the field all bearing height and shim thickness dimensions. Min. jack capacity = 60 Tons. 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.

holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed

the bearing assembly shall be included in the cost of

Elastomeric Bearing Assembly, Type II.

The '8" 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

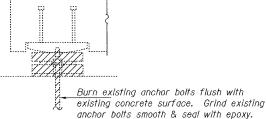
agent shall be applied on the full area of the contact

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.

Anchor bolts for Type II bearings shall be placed in

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





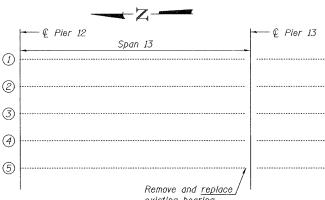
Existina Bearinas.

Cost included with Jack and Remove

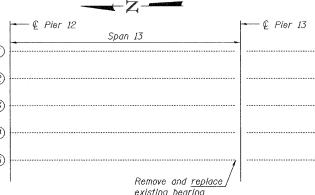
EXISTING BEARING REMOVAL DETAILS Note: Hatched area indicates removal of existing bearings.

JACK AND REMOVE EXISTING BEARING PROCEDURE

- The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings.
- The maximum differential lift between beams at any one substructure unit shall be limited to $^{l}_{8}$ inch. If simultaneous jacking of all beams at a substructure unit is utilized, then the maximum total lift shall be limited to l_4 inch.
- 3. Traffic shall be removed from the structure during the jacking operation including lifting or lowering the beams. Traffic shall not be allowed on the structure after lifting until the beams are shored in place.
- 4. The maximum reaction per bearing is 60 kips for dead load and 51 kips for live load. The minimum jack capacity is 120 kips.

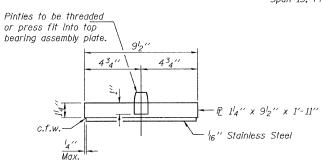


REPAIR LOCATION PLAN



EXPANSION BEARING Span 13, Pier 13, Beam 5

238'



TOP BEARING ASSEMBLY

 $A \blacktriangleleft 1$

 $A \triangleleft$

ELEVATION AT BEARING

- € Brg.

Plate

24" Radius on

Existing Embedded

Bearing

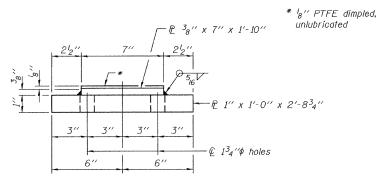
Assembly

 $^{l}_{8}{}^{\prime\prime}$ elastomeric neoprene leveling pad

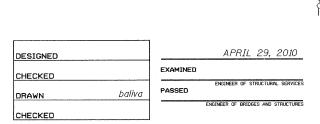
Elastomeric Bearing Assembly Type II.

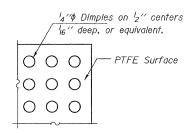
according to the material properties of Article 1052.02(a) of the Standard

Specifications, Cost included with



BOTTOM BEARING ASSEMBLY

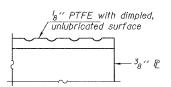




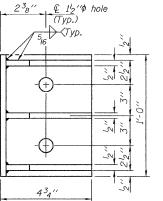
2'-834"

SECTION A-A

PLAN-TFE SURFACE



SECTION THRU TFE



−@ Top Brg.

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

--€ Top Brg. & Bott. Brg.

ABOVE 50° F. (Move bott, brg. toward fixed brg.)

PINTLE

BEARING REPLACEMENT DETAILS SN 002-0002 (SB)

Elastomeric Bearing

Assembly, Type II

Jack and Remove

Existina Bearinas

Anchor Bolts 1"0

ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

Each

Each

Fach

Total

4

TOTAL SHEET NO.

20A

25

F.A.I. RTE. SECTION COUNTY SHEET NO. 57 D9 BSMART 2010-1 ALEXANDER SHEETS CONTRACT NO. 78173

SIDE RETAINER

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

SETTING ANCHOR BOLTS AT EXP. BRG.

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