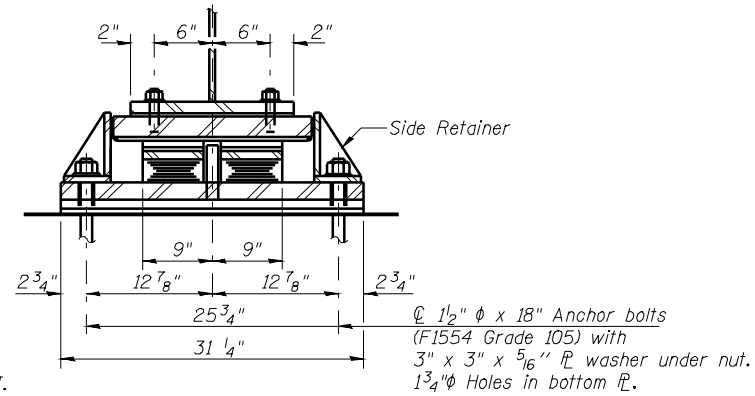


Provide a  $\frac{3}{16}$ " Shim at  
Girder No. 3. Cost included  
with cost of Furnishing and  
Erecting Structural Steel.  
South Abutment only.

SHEET NO. 50  
86 SHEETS

[illegible]

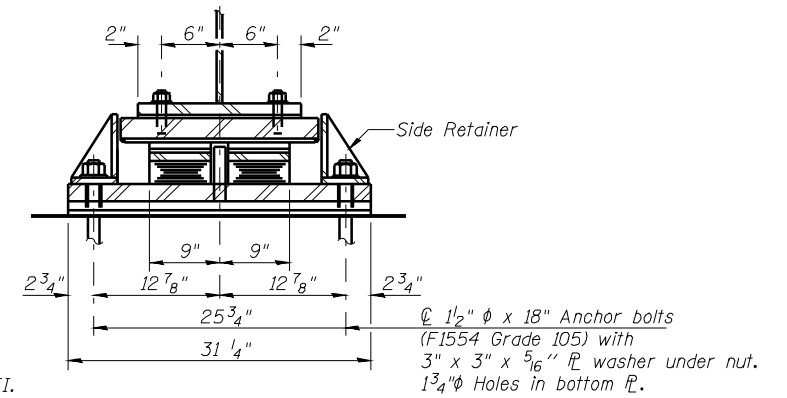
TYPE III ELASTOMERIC EXP. BRG. - PIER 6



Technical drawing of the bearing assembly showing dimensions and components:

- Top view dimensions:  $13\frac{1}{8}"$  (total width),  $2"$  (flange offset),  $7\frac{1}{8}" \phi$  Holes in Bottom. Flange,  $1\frac{1}{2}"$  (flange thickness).
- Side view dimensions:  $6\frac{1}{2}"$  Bearing Assembly,  $6\frac{1}{2}"$  (base width),  $1\frac{1}{8}"$  elastomeric neoprene leveling pad.
- Labels: Brg. S. Abutment, Shim, Elastomeric Bearing Assembly Type III.

TYPE III ELASTOMERIC EXP. BRG. - S. ABUTMENT



Technical drawing of a 16" long stainless steel plate. The plate is 1/16" thick and 2" wide. It is supported by a 1" high base. Two 3/4" diameter threaded studs are mounted on the plate, with flat washers and hex nuts. The distance between the studs is 12", with 2" from each end. The plate is labeled "1/16" Stainless Steel". The studs are labeled "3/4"  $\phi$  Threaded Stud with flat washer & hex. nut. (4-Reqd.)". The base is labeled "1" Max.". The drawing is labeled "C.F.W.".

12"

1 1/2" 4 1/2" 4 1/2" 1 1/2"

9"

9"

1/4"  $\phi$  Dimples on 1/2" centers  
1/16" deep, or equivalent

1/8" PTFE Surface

1 1/2"  $\phi$  Shear Restrictor Pin, AISI 4340,  
quenched and tempered.  
Press fit pin in bottom fl. (Full depth)

2"  $\phi$  Hole

Technical drawing of a beam assembly with the following dimensions and components:

- Beam size:  $2'' \times 17\frac{1}{2}'' \times 20''$
- Stud size:  $\frac{3}{4}'' \phi$  Threaded Stud with flat washer & hex. nut. (4-Reqd.)
- Beam length:  $17\frac{1}{2}''$
- End offsets:  $2''$  on each side
- Stud spacing:  $13\frac{1}{2}''$
- Stud height:  $2\frac{1}{2}''$
- Support plate:  $\frac{1}{6}''$  Stainless Steel
- Plate thickness:  $1''$
- Gap:  $\frac{1}{4}''$  Max.
- Label: C.F.W.

\* $\frac{1}{8}$ " PTFE dimpled, unlubricated

$2\frac{1}{2}"$

$12"$

$1\frac{1}{2}"$

$1\frac{1}{2}"$

$3\frac{1}{4}" R$

$2\frac{1}{6}"$

$2\frac{15}{16}"$

3 Layers of  $\frac{9}{16}"$  Elastomer

2-  $\frac{3}{16}"$  Steel Plates

Bonded —  $1\frac{1}{2}"$

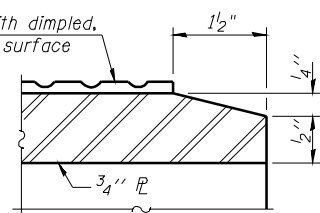
$6\frac{1}{2}"$

$6\frac{1}{2}"$

R-  $1\frac{1}{2}" \times 13" \times 31\frac{1}{4}"$

@  $1\frac{1}{2}" \phi$  Shear Restrictor Pin &  $2" \phi$  Hole  
@  $1\frac{3}{4}" \phi$  Holes for Anchor Bolts

$\frac{1}{8}$ " PTFE with dimpled, unlubricated surface



\* $\frac{1}{8}$ " PTFE dimpled,  
unlubricated

$2\frac{1}{2}"$ ,  $2\frac{15}{16}"$ ,  $1\frac{1}{2}"$

$12"$ ,  $1\frac{1}{2}"$ ,  $1\frac{1}{2}"$ ,  $3\frac{3}{4}" R$

$3 \text{ Layers of } \frac{9}{16}" \text{ Elastomer}$

$2 - \frac{3}{16}" \text{ Steel Plates}$

Bonded —  $1\frac{1}{2}"$

$6\frac{1}{2}"$ ,  $6\frac{1}{2}"$

$R - 1\frac{1}{2}" \times 13" \times 3\frac{1}{4}"$

$1 @ 1\frac{1}{2}" \phi \text{ Shear Restrictor Pin} & 2" \phi \text{ Hole}$   
 $1 @ 1\frac{3}{4}" \phi \text{ Holes for Anchor Bolts}$

Technical drawing of a bottom bearing assembly. The drawing includes a front view on the left and a side view on the right. The front view shows a rectangular base with a triangular cutout on the right side. Dimensions include a total width of 5 1/2", a total height of 5", and a cutout height of 5/8". The side view shows a rectangular profile with a central hole. Dimensions include a total width of 5 1/2", a total height of 8", and a central hole diameter of 1 3/4". The side view also shows a 5/16" dimension for the top edge and a 5/8" dimension for the bottom edge. A note indicates a 1 3/4" diameter hole.

Diagram illustrating the vertical shaft assembly with dimensions and labels:

- Top dimension:  $12\frac{1}{4}"$  at Pier 6
- Bottom dimension:  $13\frac{1}{8}"$  at S. Abut.
- Top bracket:  $\phi$  Top Brq.
- Bottom bracket:  $\phi$  Bott. Brq.
- Shaft diameter:  $D$

Diagram illustrating the vertical section of a bridge pier showing the top and bottom bearings.

Labels and dimensions:

- $12\frac{1}{4}"$  at Pier 6
- $13\frac{5}{8}"$  at S. Abut.
- Top Brg.
- Bott. Brg.
- $D$

SETTING ANCHOR BOLTS AT EXP. BRG.

### BILL OF MATERIAL

<i>Item</i>	<i>Unit</i>	<i>Total</i>
Elastomeric Bearing Assembly, Type III	Each	12
Anchor Bolts, 1½"	Each	24

DATE  
03/27/09