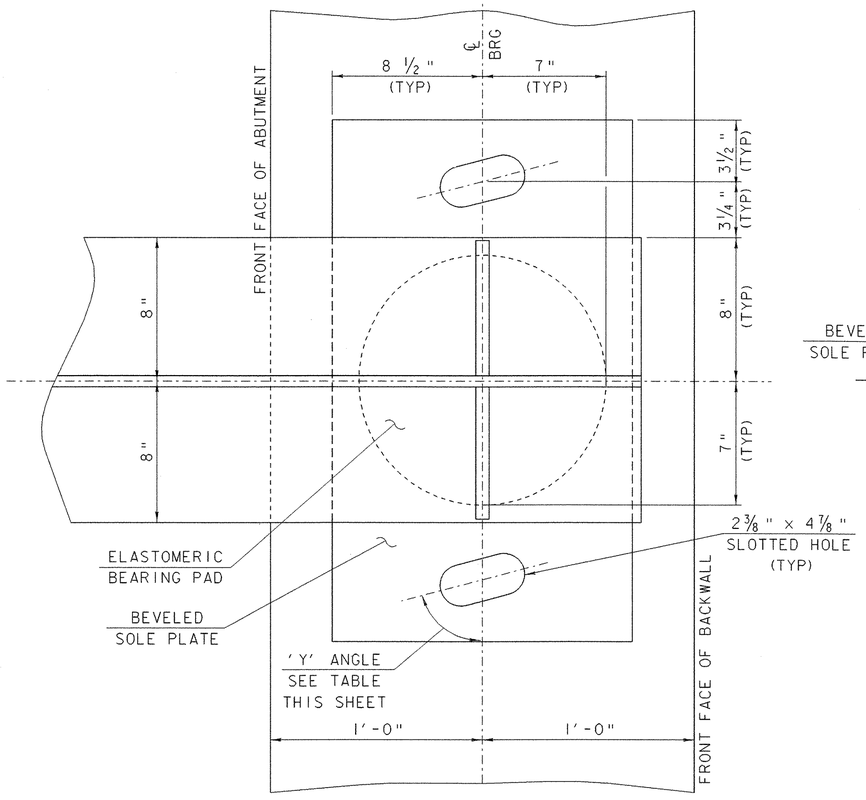
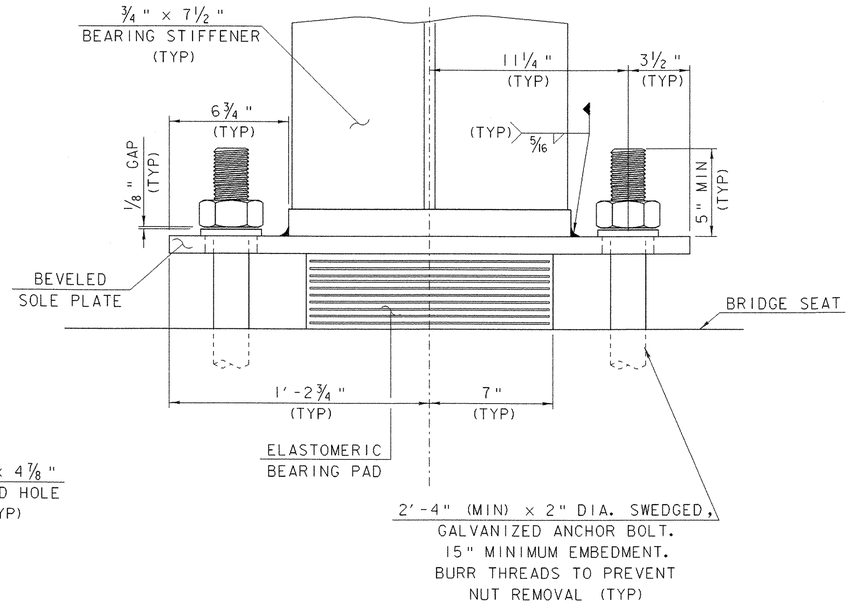
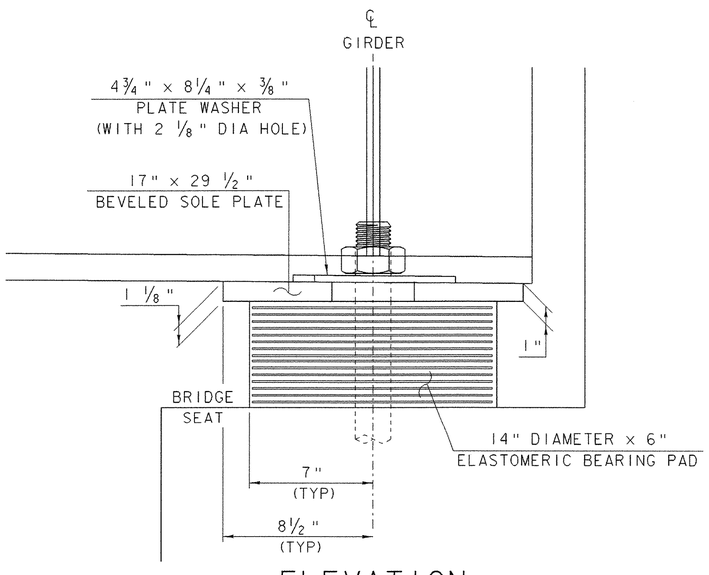


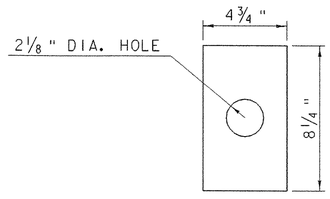
PLAN



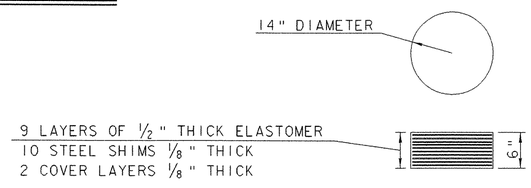
SECTION



ELEVATION



WASHER



REINFORCED ELASTOMERIC PAD

SCALE: 1" = 1'-0"

GIRDER	'Y' ANGLE
1	75.19°
2	80.26°
3	85.50°
4	90.81°
5	96.11°

SCALE 3" = 1'-0

1 9 6 3 0 1

(UNLESS OTHERWISE NOTED)

BEARING DEVICE NOTES

1. BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.10 "BEARING DEVICE ASSEMBLY (ELASTOMERIC)" AND SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731.
2. FOR ELASTOMERIC BEARINGS, ALL MATERIALS AND FABRICATION SHALL BE PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, EDITION 2002 AND ITS LATEST REVISIONS AND AASHTO M 251.
3. AREAS OF GALVANIZED AND METALIZING DAMAGED BY WELDING AND/OR HANDLING SHALL BE REPAIRED BY METALIZING IN ACCORDANCE WITH ASTM A 780.
4. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER AASHTO M 232.
5. ALL STEEL IN BEARING DEVICES SHALL BE AASHTO M 270 GRADE 50.
6. ALL REINFORCEMENT BETWEEN LAYERS OF ELASTOMERIC SHALL BE STEEL AASHTO M 270 GRADE 36. ALL INTERNAL STEEL PLATES SHALL BE SAND BLASTED AND FREE OF COATINGS, RUST, AND MILL SCALE. THE PLATES SHALL BE FREE OF SHARP EDGES AND BURRS.
7. STEEL REINFORCED ELASTOMERIC BEARINGS SHALL HAVE A MINIMUM OF ⅛" EDGE SEAL OF ELASTOMER INTEGRAL WITH THE BEARING OVER ALL INTERNAL PLATES.
8. ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THIS SHEET. THE ALTERNATE SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN AND SHALL BE DESIGNED PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 2002 EDITION AND ITS LATEST REVISIONS.
9. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATIVE CONFIGURATION.
10. THE STEEL SOLE PLATES SHALL BE HOT BONDED TO THE REINFORCED ELASTOMERIC PAD DURING THE VULCANZATION PROCESS. THE STEEL SURFACES TO BE BONDED TO THE PAD SHALL NOT BE METALIZED.
11. THE ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A 449.

DESIGN CRITERIA:

A. DESIGN ROTATION = 0.0124 RADIANS

B. BEARINGS ARE DESIGNED AS PER AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, EDITION 2002 AND ITS LATEST REVISIONS, SECTION 14, METHOD B.

C. DESIGN CRITERIA:

MINIMUM ALLOWABLE DESIGN ROTATION = 0.0124
DEAD LOAD = 87 K
LIVE LOAD = 92 K
TRANSLATION = 0.932 IN

D. TEMPERATURE RANGE = -30°F TO +120°F

E. ELASTOMER SHALL HAVE NOMINAL HARDNESS OF 60 ON SHORE 'A' SCALE. ELASTOMER SHALL HAVE A SHEAR MODULUS BETWEEN 0.130 ksi AND 0.200 ksi. THE RAW ELASTOMER SHALL BE CLASSIFIED AS LOW TEMPERATURE GRADE 4 AS DEFINED IN TABLE 18.4.5.1 - 1A OF AASHTO, DIVISION II, SECTION 18.

F. NO FABRIC REINFORCEMENT WILL BE ALLOWED IN ELASTOMERIC PADS.

ABUTMENT #2 BEARINGS

PROJECT NAME:	RANDOLPH
PROJECT NUMBER:	BRF 0241 (29)

FILE NAME: /str5/88j096/s88j096brg.dgn PLOT DATE: 29-AUG-2006
PROJECT LEADER: W. SYMONDS DRAWN BY: G. SHANGRAW
DESIGNED BY: T. SUMNER CHECKED BY: T. FILLBACH
sj096br3.i SHEET 66 OF 135