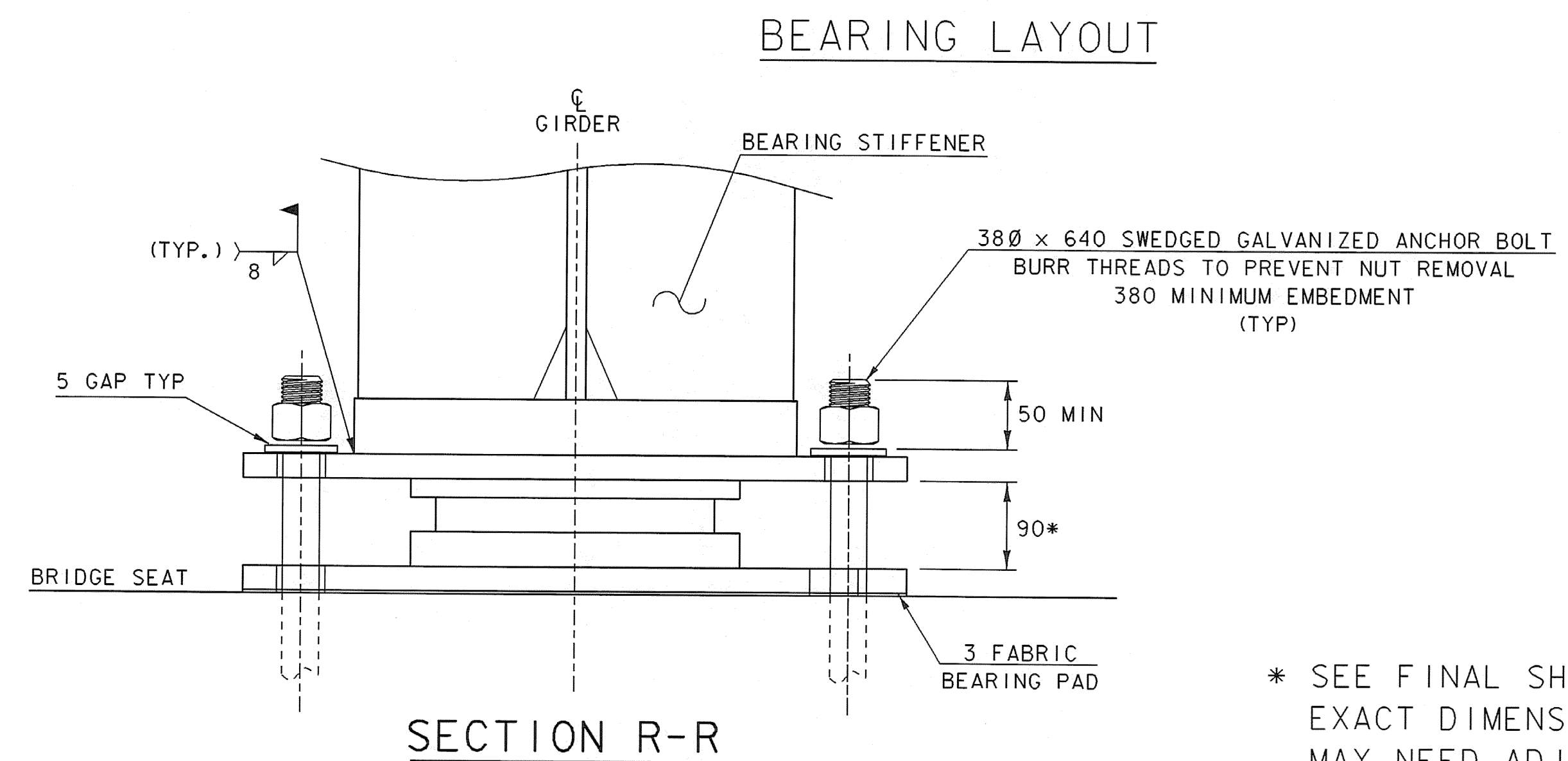
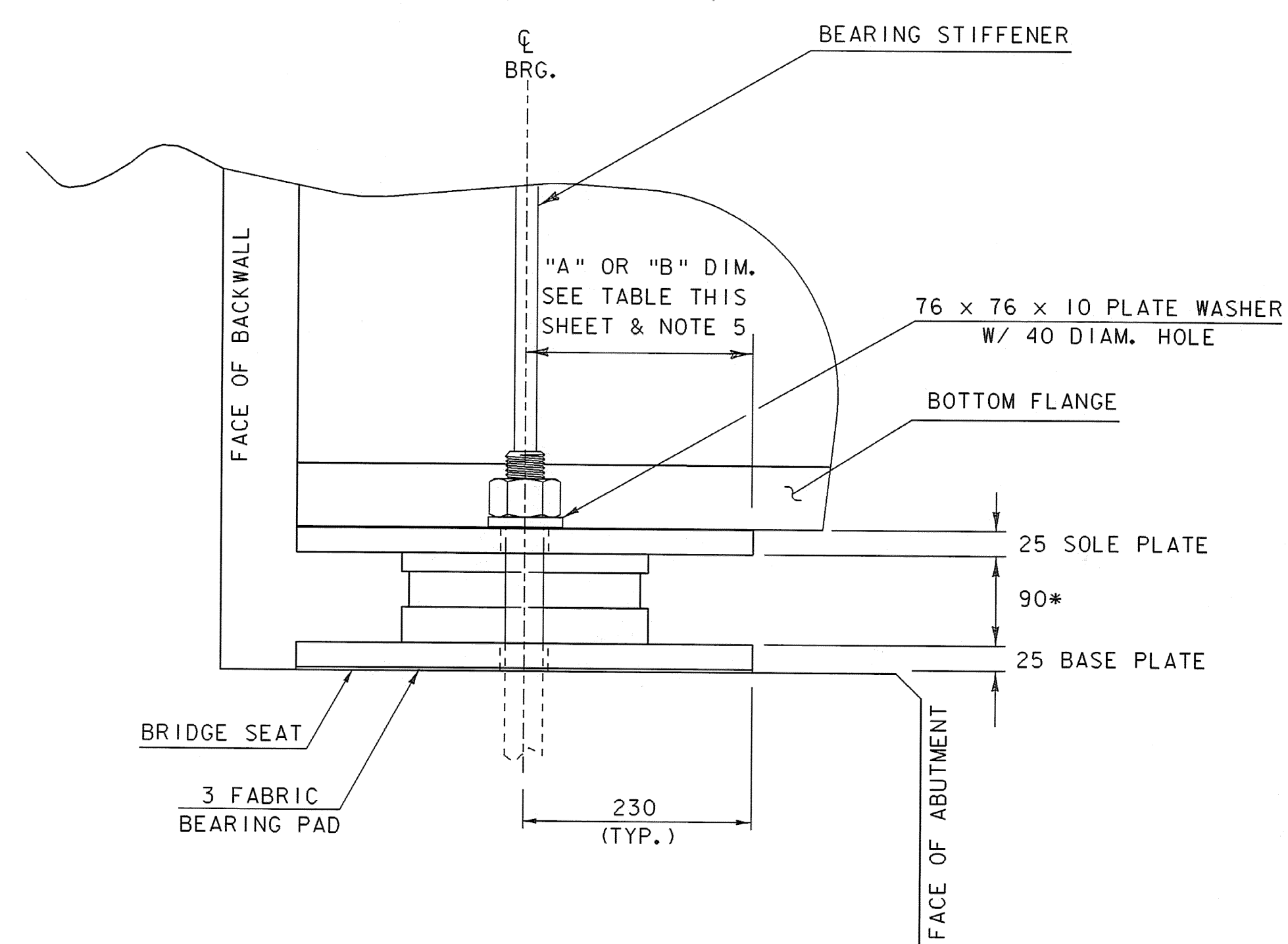
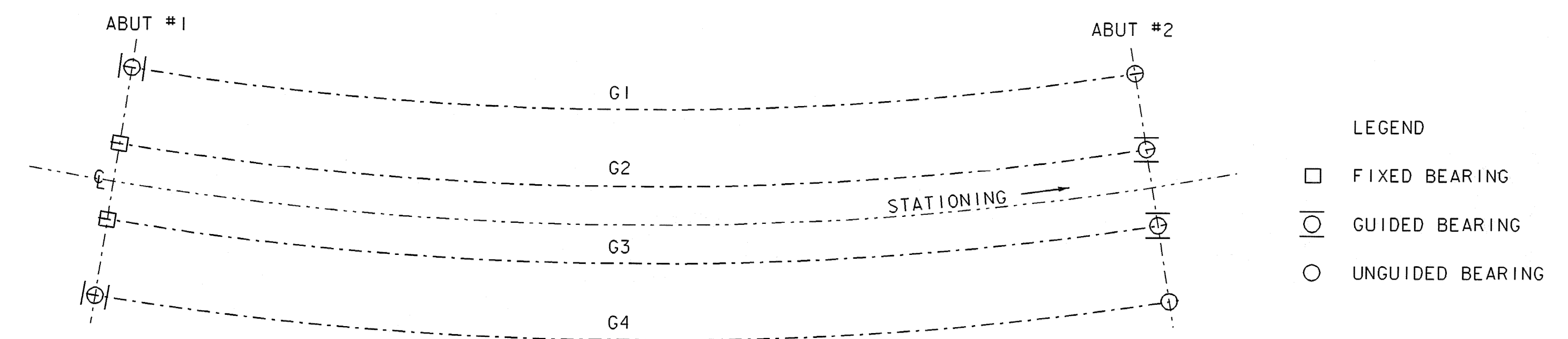
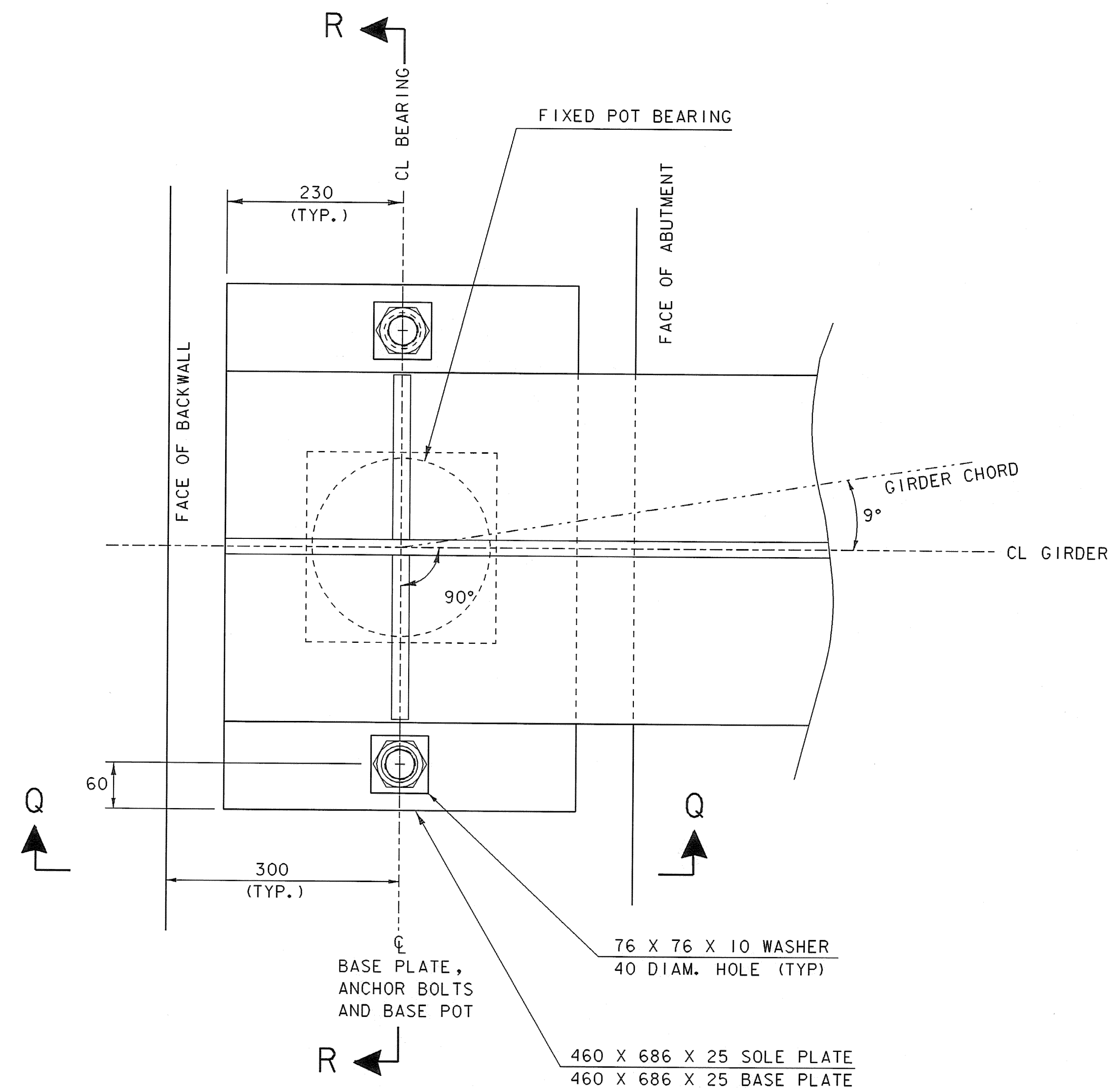


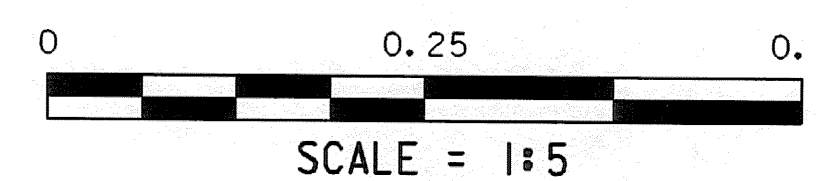
### BEARING NOTES

1. Bearings shall conform to applicable subsections of Sections 531 and 731.
2. Bearings shall be paid for under Item 531.10 "Bearing Device Assembly (Pot)".
3. Shop drawings conforming to subsection 531.03 shall be submitted to include welding and bonding procedures.
4. The concrete surface under the bearing device shall be level.
5. "B" distance is the final setting for the bearing pad after the concrete slab, curb, and bridge rail are placed. "A" distance is listed for setting the bearing after the structural steel is erected and before the concrete deck and curbs have been placed. The difference is the theoretical elongation of the bottom flange due to dead load deflection. The final "B" distance, as shown in the table, must be attained within 2mm.
6. Design Criteria:
  - A. Base plate to concrete design pressure = 7000 kPa maximum.
  - B. Minimum allowable design rotation = 0.015 radians.
  - C. Horizontal capacity shall be a minimum of 20% of the vertical load.
  - D. Design load per bearing (unfactored)  
See Sheet 42
7. All steel in bearing devices (except stainless) shall be AASHTO M-270, grade 345.
8. Anchor bolts shall have a minimum embedment of 380 into the concrete and shall conform to subsection 714.08 in the "Vermont Standard Specifications for Construction."
9. All bearing devices shall be galvanized or metalized as per subsection 531.04 (b) and 506.15 of the General Special Provisions. Areas of galvanizing or metalizing damaged by field welding or handling shall be painted with a zinc rich paint in accordance with Supplemental Specification 513. The inside of the pots shall not be galvanized or metalized.
10. All anchor bolts, nuts and washers shall be galvanized. All washers shall be 10 plate (minimum). Payment for drilling and grouting of anchor bolts, anchor bolts, nuts, and washers shall be included in the bid price for "Bearing Device Assembly".
11. Submit Designs for Alternate Bearings for approval.
12. All bearings shall be marked prior to shipping. The marks shall include the bearing location on the bridge, and a direction arrow that points up-station. All marks shall be permanent and be visible after the bearing is installed.



\* SEE FINAL SHOP DRAWINGS FOR EXACT DIMENSIONS. BRIDGE SEATS MAY NEED ADJUSTMENT.

### FIXED BEARING DETAILS ABUTMENT 1 GIRDERS 2 & 3



|                                    |                         |
|------------------------------------|-------------------------|
| SHEET NAME: <b>BEARING DETAILS</b> |                         |
| PROJECT NAME: <b>SUNDERLAND</b>    | HIGHWAY NO.: TH 3       |
| PROJECT NUMBER: <b>BRF 0114(2)</b> | BRIDGE NO.: 14          |
|                                    | OVER: ROARING BRANCH    |
| FILE NAME: /PW/93J009/sj009sup.dgn | PLOT DATE: 14-DEC-2005  |
| PROJECT MANAGER: R. R. WHITCOMB    | DRAWN BY: J.GILMORE     |
| DESIGNED BY: D. BONNEAU            | IPARM NAME: sc009brgl.i |
|                                    | SHEET 40 OF 67          |