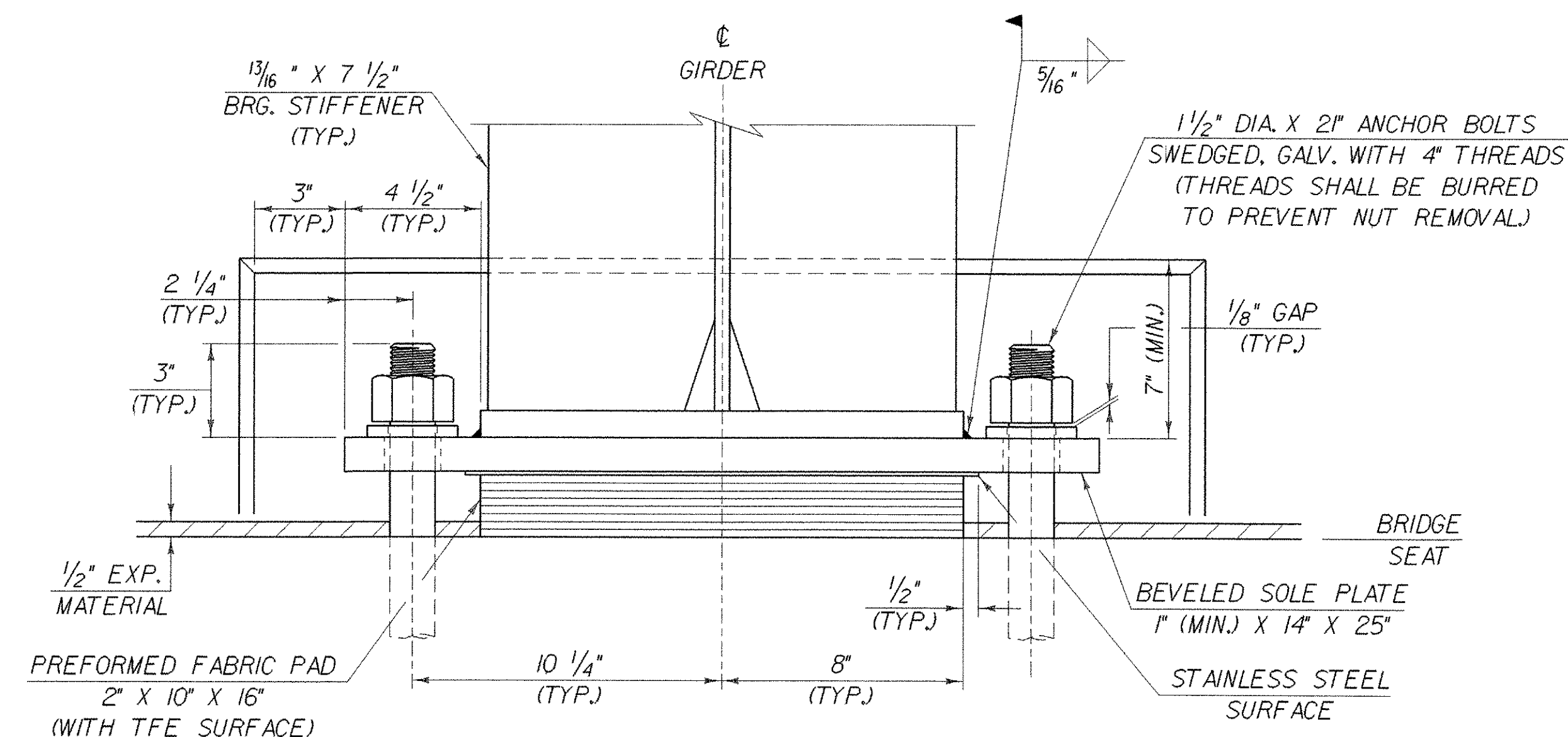
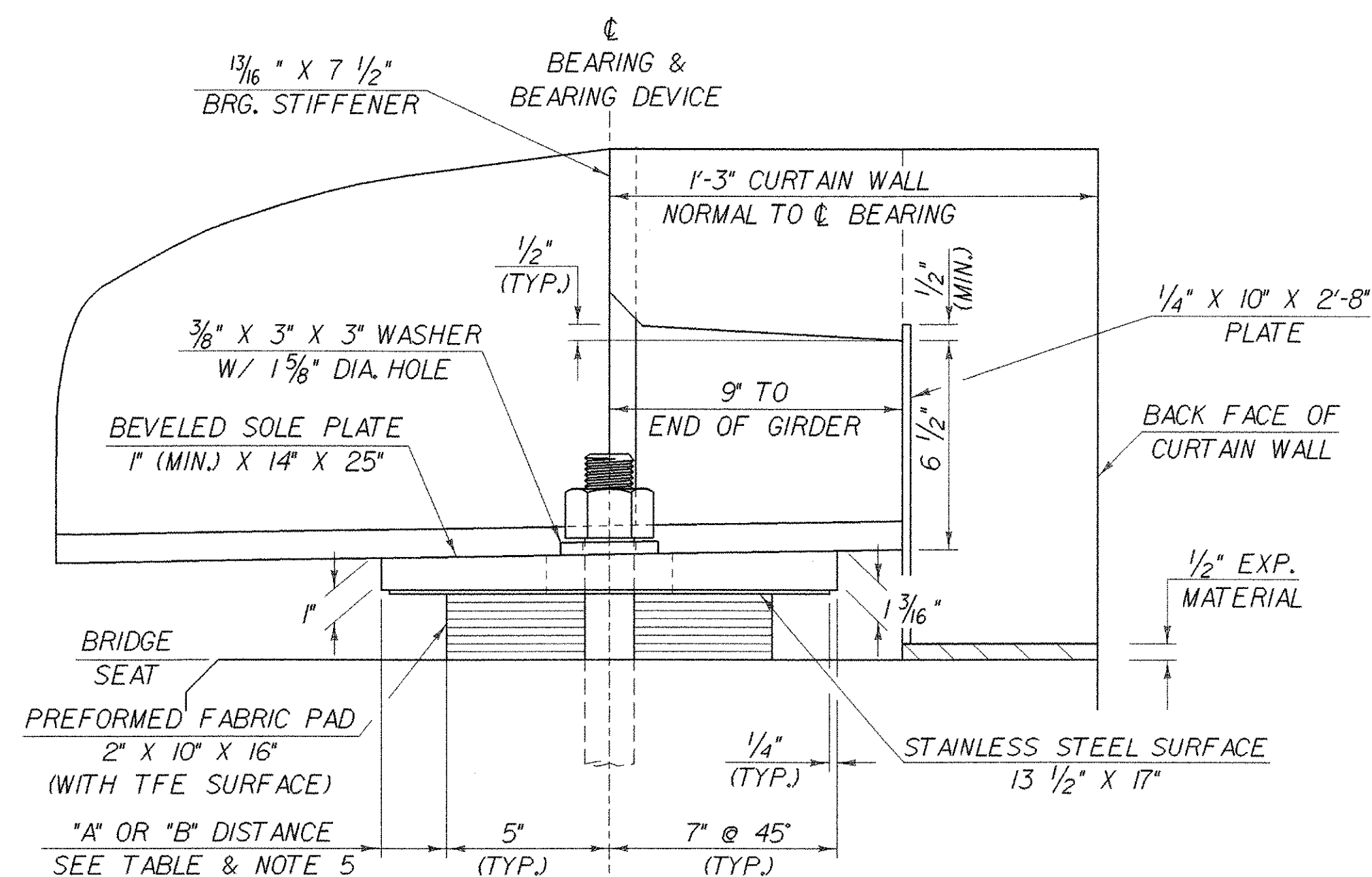
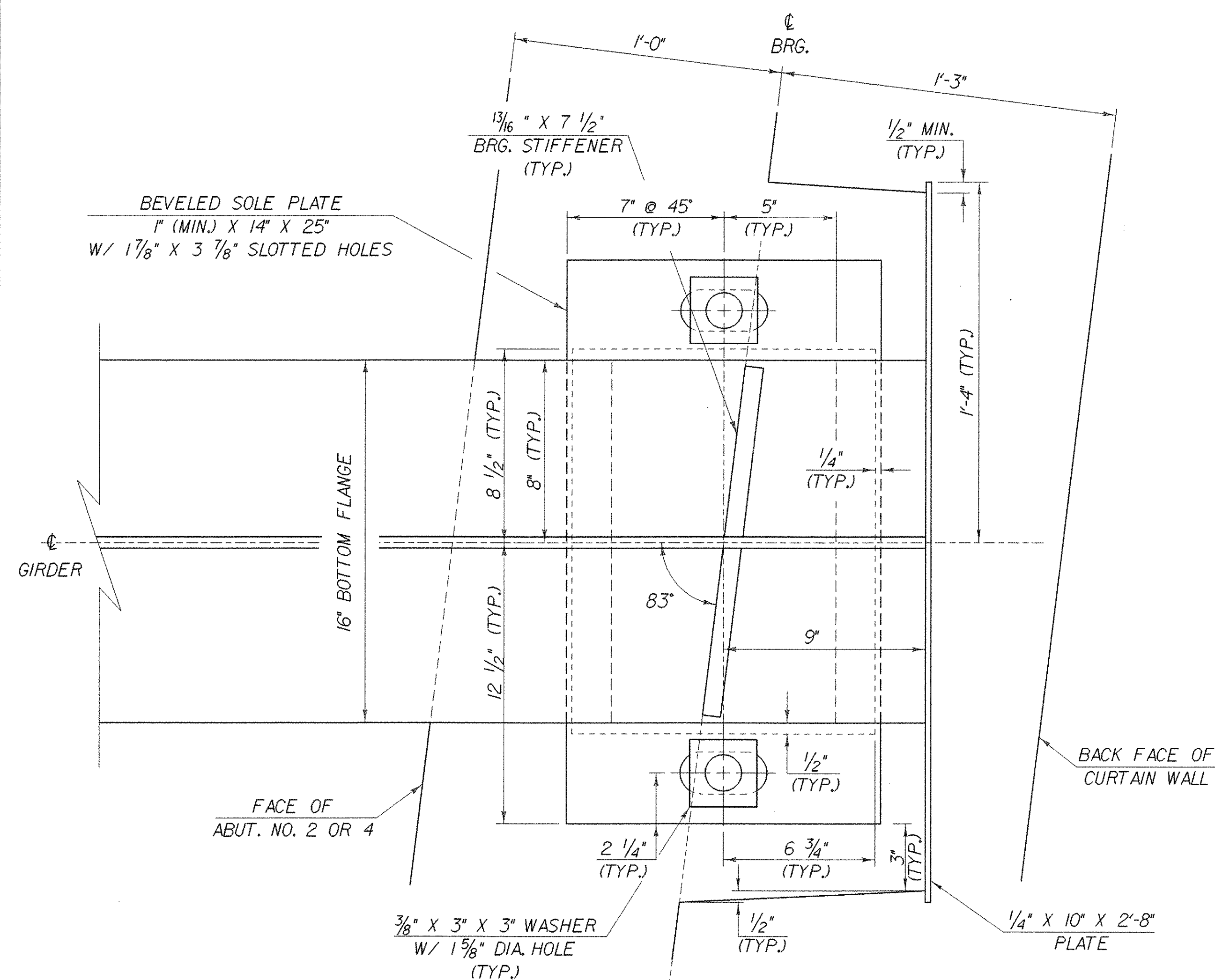




## BEARING NOTES

1. BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 & 731.
2. BEARINGS SHALL BE PAID FOR UNDER ITEM 531.10 "BEARING DEVICE ASSEMBLY".
3. SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED AND ARE 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, PAVEMENT, AND BRIDGE RAIL ARE PLACED. "A" DISTANCE IS LISTED FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS POURED. 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 1/8" INCH.
6. DESIGN CRITERIA:
  - A. BASE PLATE TO CONCRETE DESIGN PRESSURE = 1000 PSI MAXIMUM.
  - B. MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIANS.
  - C. HORIZONTAL CAPACITY SHALL BE A MINIMUM OF 10% OF THE VERTICAL LOAD.
  - D. DESIGN LOAD PER BEARING = 153 KIPS.
7. ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS STEEL) SHALL BE AASHTO M270, GRADE 36.
8. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 15" EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08.
9. ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTIONS 531.04 (b) AND 506.15 (b) & (c), AS MODIFIED BY THE GENERAL SPECIAL PROVISIONS. IF THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN SUBSECTION 506.15 (b) OF THE GENERAL SPECIAL PROVISIONS. AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE REPAIRED IN CONFORMANCE WITH ASTM SPECIFICATION A760/A760M.
10. ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED. ALL WASHERS SHALL BE 3/8" PLATE MINIMUM. PAYMENT FOR ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 531.10, "BEARING DEVICE ASSEMBLY".

## TEMPERATURE SETTING TABLE

| TEMP  | "A" DIST | "B" DIST |
|-------|----------|----------|
| 0°F   | 2 3/4"   | 2 3/8"   |
| 15°F  | 2 5/8"   | 2 1/4"   |
| 30°F  | 2 1/2"   | 2 1/8"   |
| 45°F  | 2 3/8"   | 2"       |
| 60°F  | 2 1/4"   | 1 7/8"   |
| 75°F  | 2 1/8"   | 1 3/4"   |
| 90°F  | 2"       | 1 5/8"   |
| 105°F | 1 7/8"   | 1 1/2"   |

## STATE OF VERMONT AGENCY OF TRANSPORTATION

|                                                     |                                       |
|-----------------------------------------------------|---------------------------------------|
| Town Of<br><b>FAIRFAX-FAIRFIELD-ST. ALBANS</b>      | Bridge No. 87 N & S                   |
| Highway No. 1-89                                    | Log Sta.                              |
|                                                     | Surv. Sta.                            |
| <b>1-89 OVER VT 104</b>                             |                                       |
| <b>EXPANSION BEARING DETAILS ABUT. NOS. 2&amp;4</b> |                                       |
| Designed By M. LOZIER                               | Drawn By K. CHISHOLM                  |
| Checked By G. ROY                                   | Bridge Design Supervisor              |
| Date 10 / 99                                        | Date 11 / 99                          |
| PROJECT<br><b>FAIRFAX-FAIRFIELD-ST. ALBANS</b>      | PROJECT NO.<br><b>1M 089 - 3 (27)</b> |
| I.G.C. Info. 941106Structures\1106fr.dgn            | sa056fr2j                             |
| Bridge Sheet No. BR212                              | Sheet 90 of 370                       |