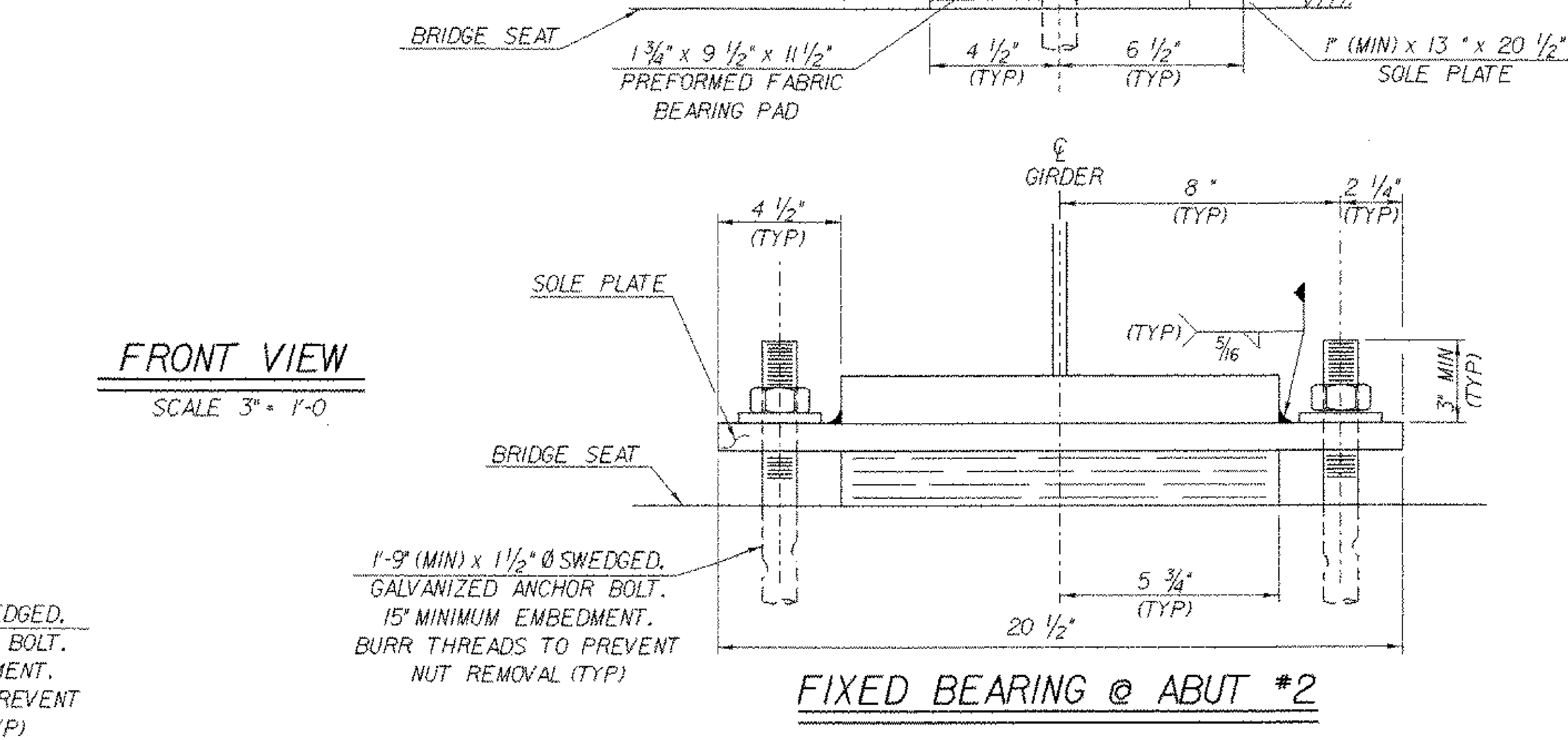
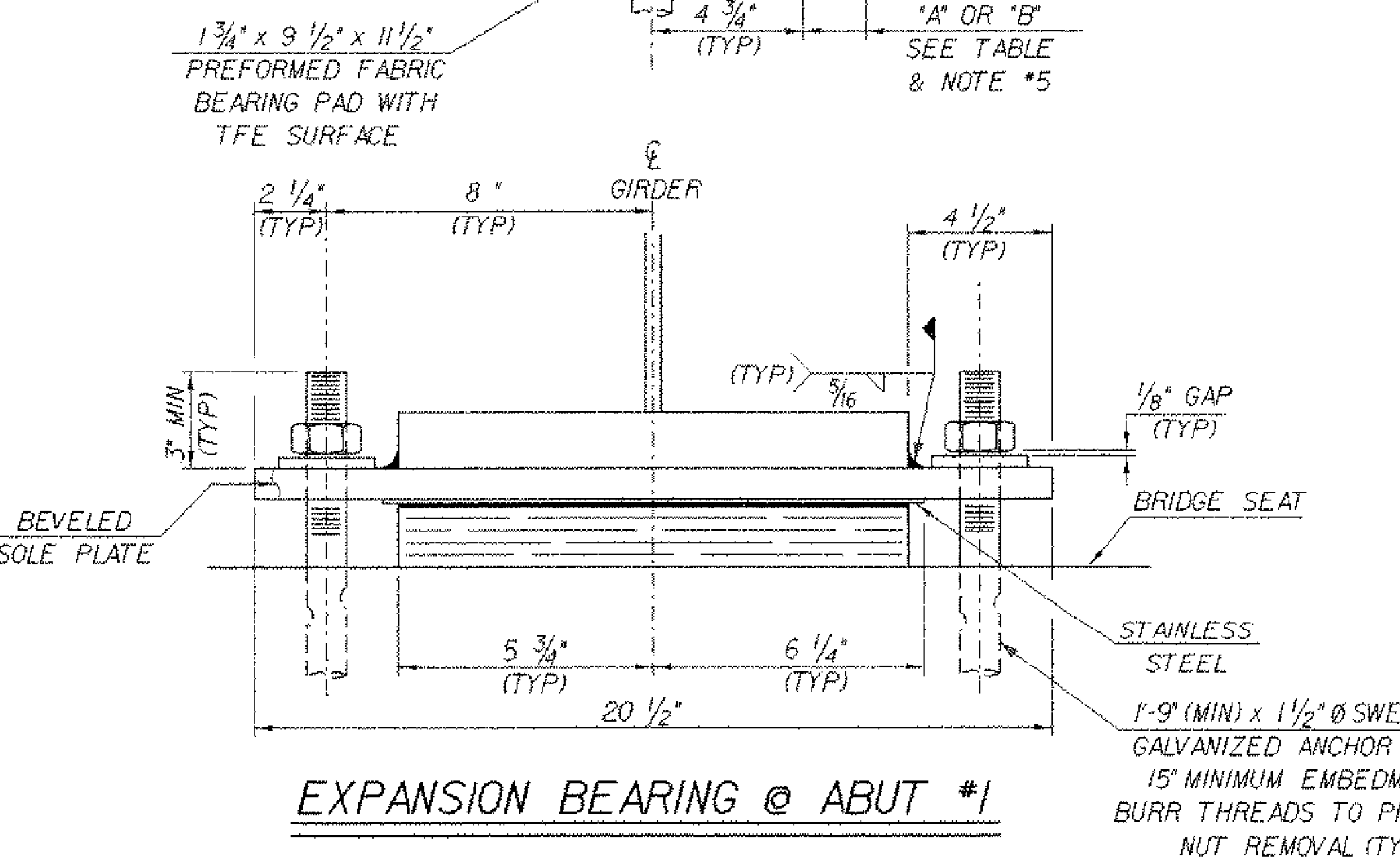
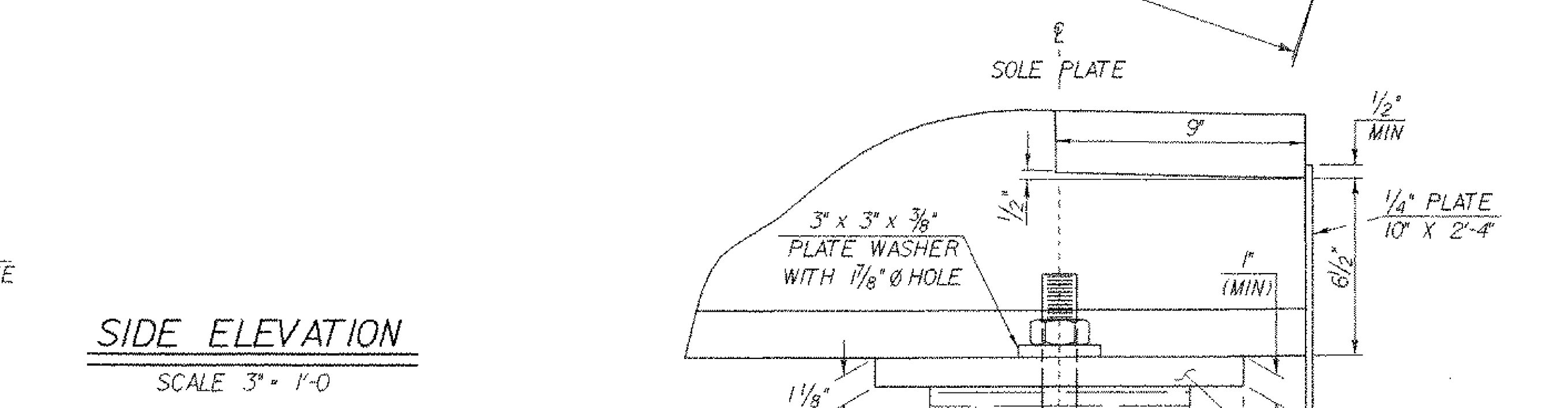
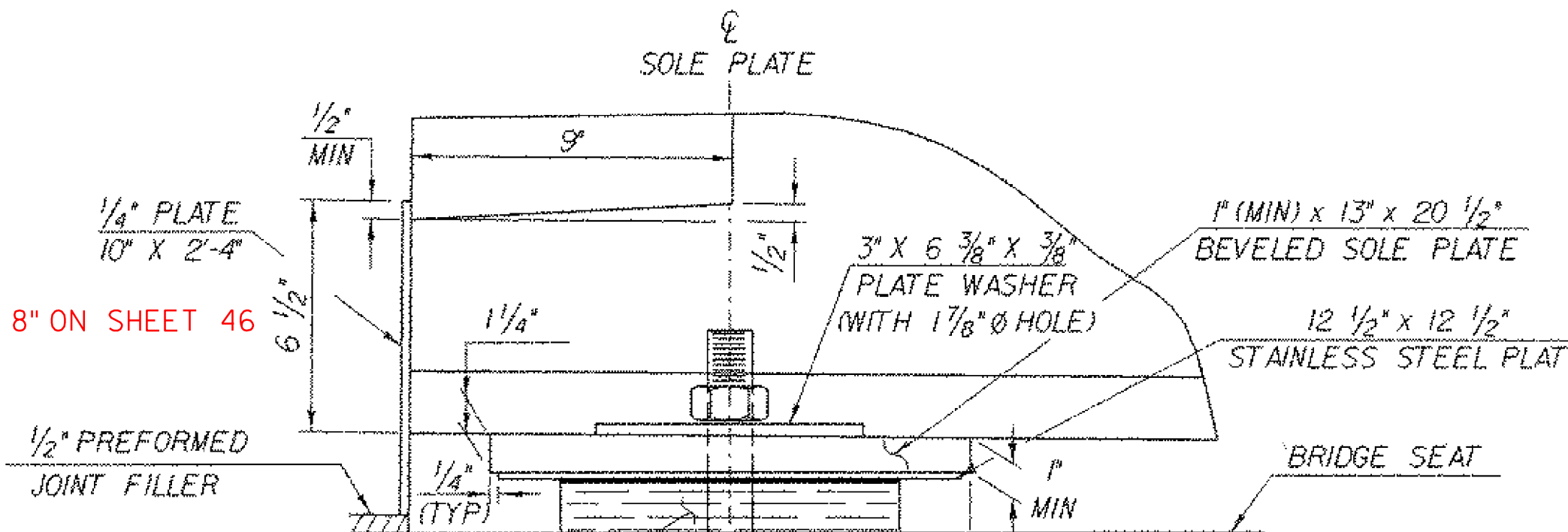


BEARING NOTES

- Bearings shall conform to applicable subsections of section 531 & 731.
- Bearings shall be paid for under the item 531J0 "BEARING DEVICE ASSEMBLY (FABRIC)".
- Fabrication drawings conforming to subsection 531.03 shall be submitted to include welding and bonding procedures.
- The concrete surface under the bearing device shall be level.
- "A" distance is the final setting for the bearing pad after the concrete slab, curb, pavement and bridge rail are placed. "B" 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 "A" distance, as shown in the table, must be attained within 1/16 of an inch.
- Design criteria:
 - A. Base plate to concrete design pressure = 1000 P.S.I. 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 = 106 Kips.
 - LL = 63 Kips
 - DL = 32 Kips
 - SDL = 11 Kips
- All steel in bearing devices (except stainless) shall be AASHTO M-270, Grade 36.
- Anchor bolts shall have a minimum of 15" embedment into the concrete and shall conform to subsection 714.08 in the "Vermont Specifications".
- All bearing devices shall be galvanized or metalized as per subsection 531.04(b) and 506.15 of the Standard Specifications for Construction. 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.
- All the 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 "BEARING DEVICE ASSEMBLY (FABRIC)".



FINAL

TEMP	"A" DIST	"B" DIST
-30°F	2 3/8"	2 1/16"
-15°F	2 7/16"	2 5/8"
0°F	2 1/4"	2 7/16"
15°F	2 1/8"	2 1/16"
30°F	2 1/16"	2 3/8"
45°F	2"	2 5/16"
60°F	1 15/16"	2 1/4"
75°F	1 7/8"	2 3/16"
90°F	1 3/4"	2 1/16"
105°F	1 11/16"	2"
120°F	1 5/8"	1 9/16"

SHEET NAME: BEARING DEVICE DETAILS

PROJECT NAME: READING HIGHWAY NO.: VT 44
 BRIDGE NO.: 1
 PROJECT NUMBER: BRS 0148(6)S OVER: THE MILL BROOK

FILE NAME: PW/85e034/Structures/se034sup.dgn PLOT DATE: 17-FEB-2006
 PROJECT MANAGER: R. WHITCOMB DRAWN BY: T. FILLBACH
 DESIGNED BY: C. CARLSON IPARM NAME: se034bdd.1
 BRIDGE SHEET NUMBER: SHEET 47 OF 83

EXPANSION BEARING @ ABUT #1

FIXED BEARING @ ABUT #2