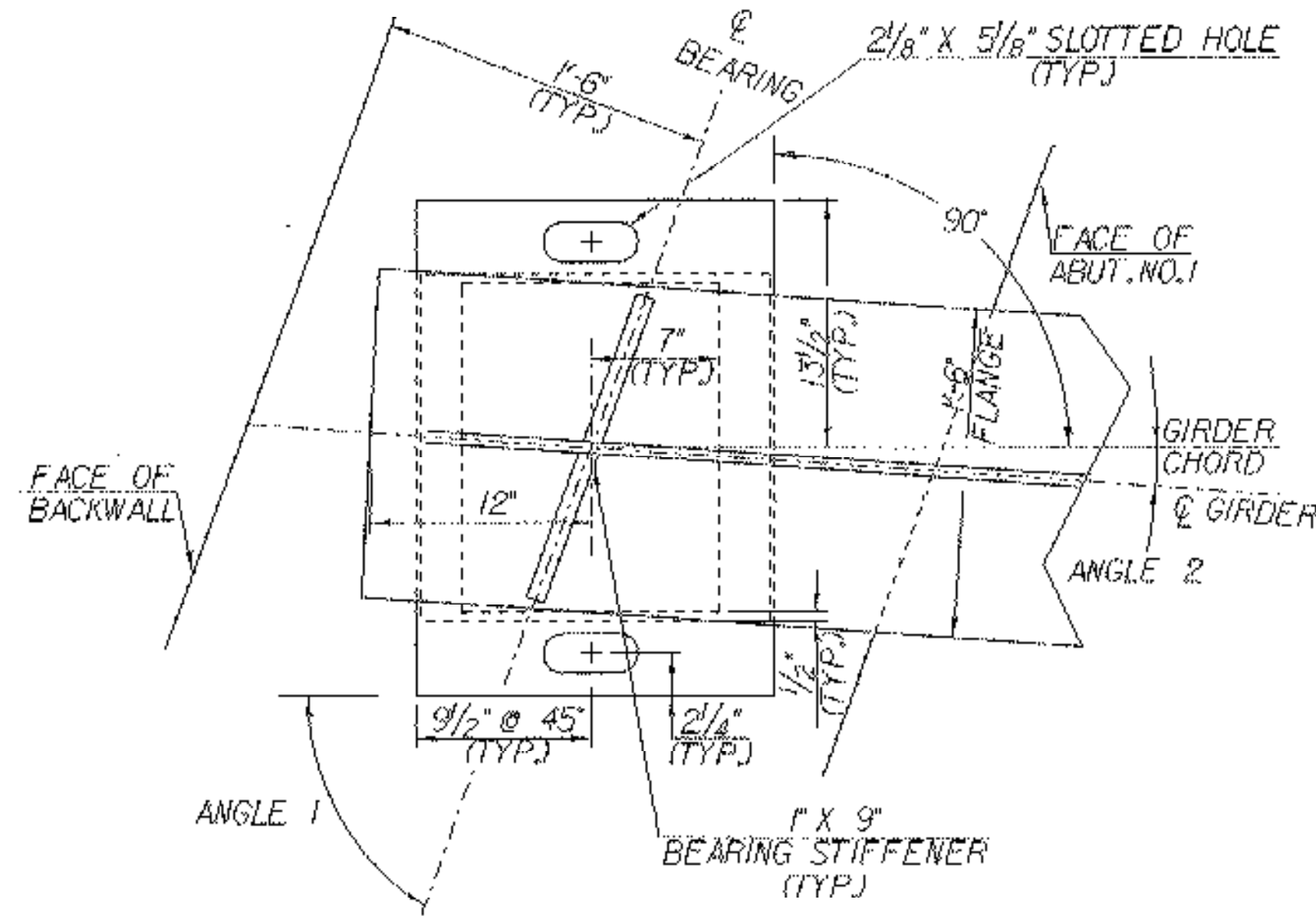


BEARING NOTES

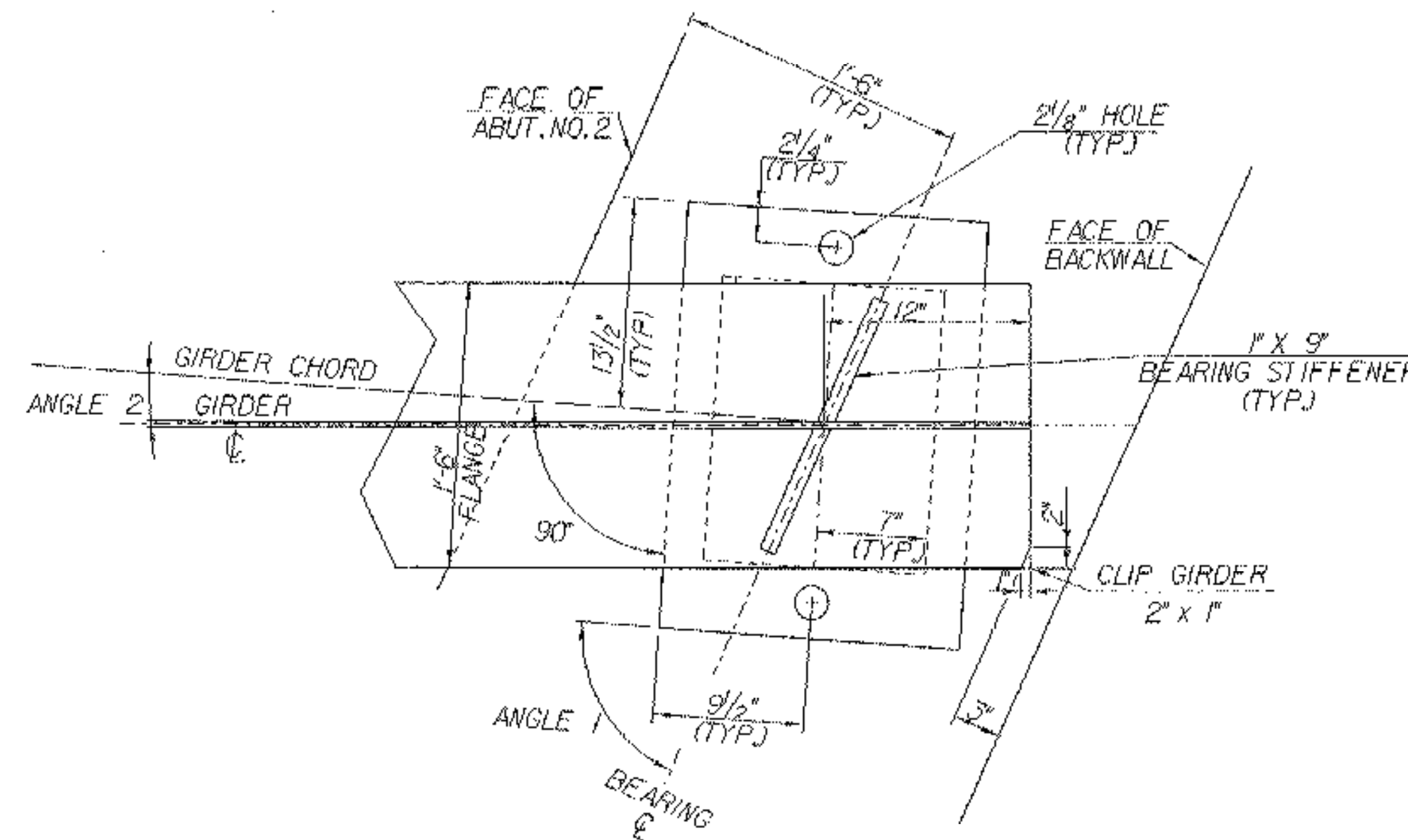
1. BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 AND 731.
2. BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.0 "BEARING DEVICE ASSEMBLY".
3. SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED TO INCLUDE WELDING AND BONDING PROCEDURES.
4. THE CONCRETE SURFACE UNDER THE BEARINGS SHALL BE LEVEL.
5. THE FIELD WELD CONNECTING THE BOTTOM FLANGE WITH THE SOLE PLATE SHALL BE MADE WITH E 7018 RODS. AREAS OF GALVANIZING DAMAGED BY WELDING SHALL BE REPAIRED AS PER SUPPLEMENTAL SPECIFICATION 513.06(1).
6. ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
7. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATE CONFIGURATION.
8. THE "B" DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER ALL DEAD LOAD HAS BEEN APPLIED. HOWEVER, CONTRACTORS LIKE TO ADJUST THE BEARING PAD AFTER THE STRUCTURAL STEEL HAS BEEN ERECTED AND BEFORE THE CONCRETE DECK HAS BEEN POURED. THEREFORE, THE "A" DISTANCE IS LISTED FOR CONTRACTORS WHO SET THE BEARING PADS BEFORE POURING THE DECK. THE FINAL "B" DISTANCE, AS SHOWN IN THE TABLE, MUST BE REACHED WITHIN 1/8".
9. DESIGN CRITERIA:
 - A. BEARING PAD TO CONCRETE DESIGN PRESSURE = 1000 PSI MAX.
 - B. MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIANS.
 - C. HORIZONTAL CAPACITY SHALL BE MINIMUM 10% OF VERTICAL LOAD.
 - D. DESIGN LOAD PER BEARING = 250 KIPS.
10. ALL STEEL IN BEARINGS SHALL BE AASHTO M270 GRADE 36 (EXCEPT THE STAINLESS STEEL AND THE ANCHOR BOLTS).
11. ANCHOR BOLTS SHALL HAVE A MINIMUM 15" OF EMBEDMENT INTO THE CONCRETE AND SHALL CONFORM TO SUBSECTION 714.08, IN THE "VERMONT SPECIFICATIONS".
12. ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04(B) OR 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 SPECIFICATIONS, SECTION 513.
14. 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".



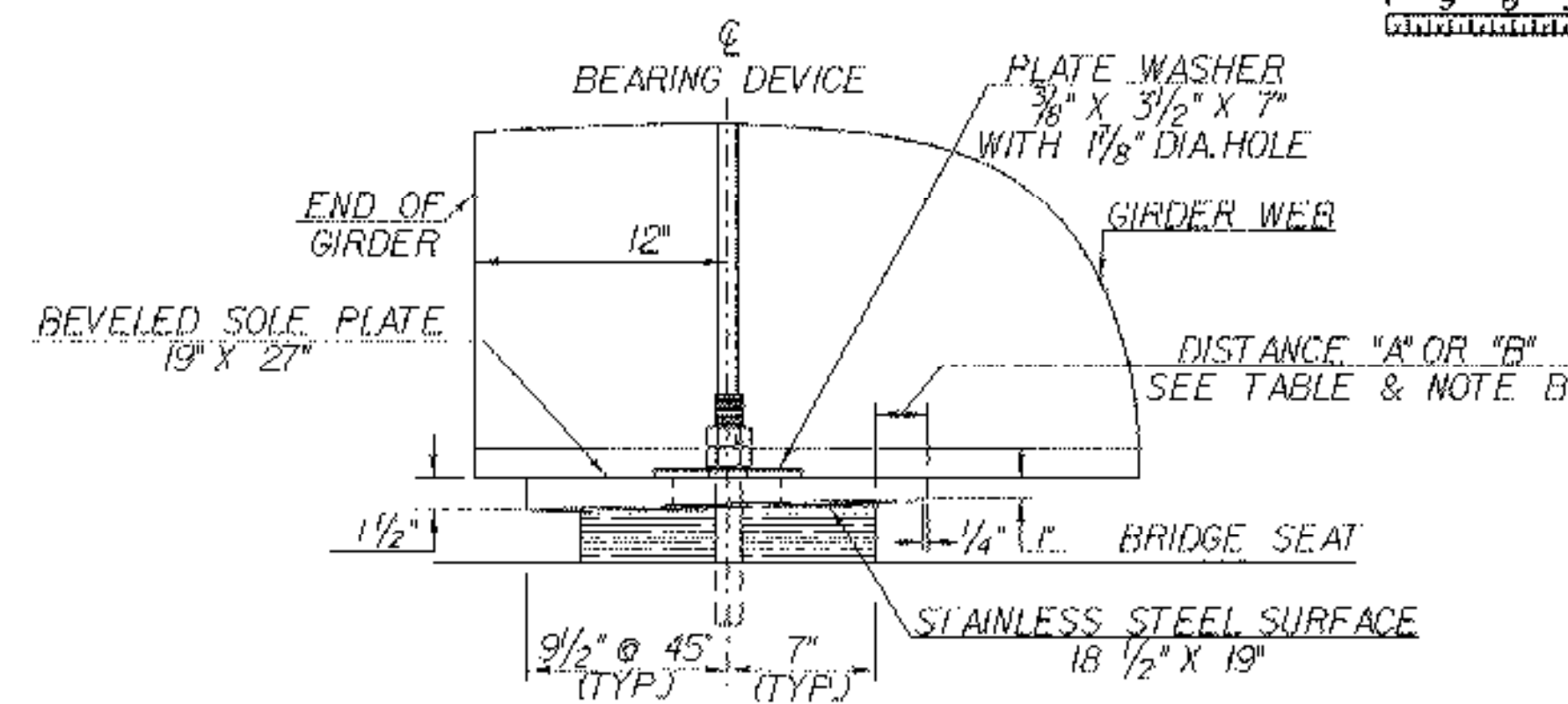
ABUTMENT #1

BEAM CUTOFF AND SOLE PLATE DETAILS

SCALE 1 1/2" = 1'-0"
1 9 6 3 0 1

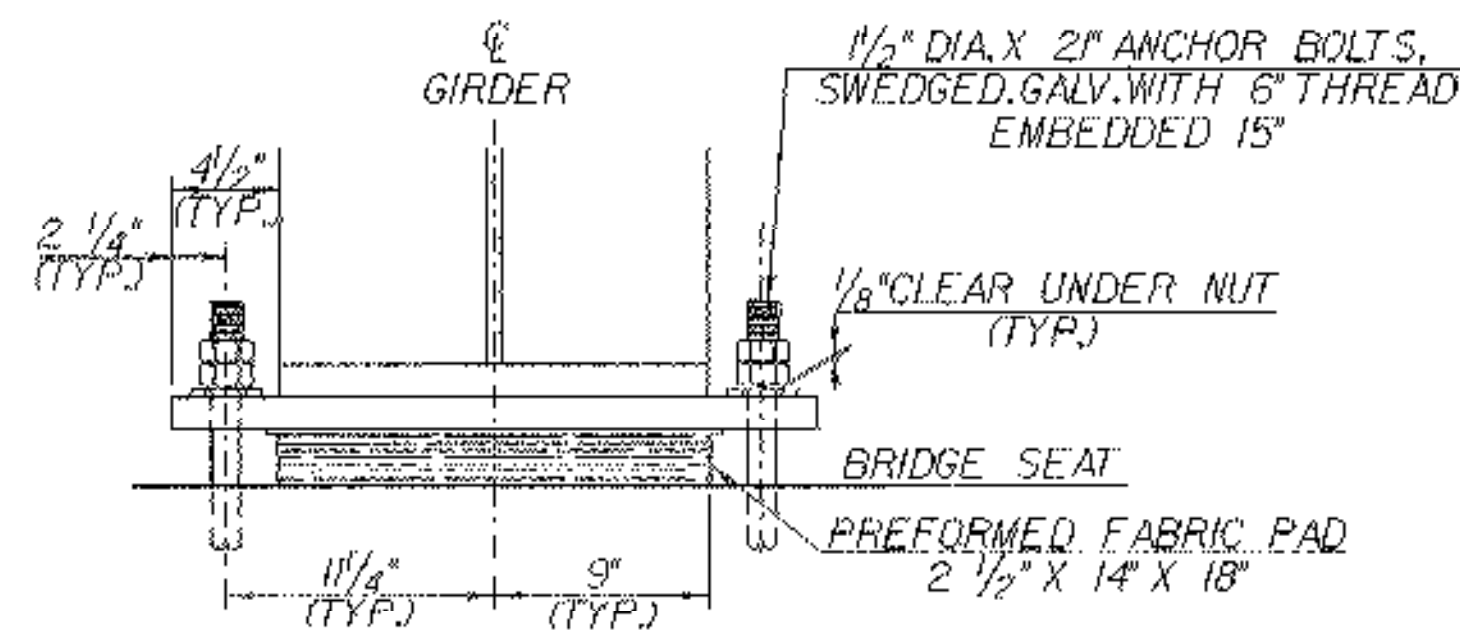
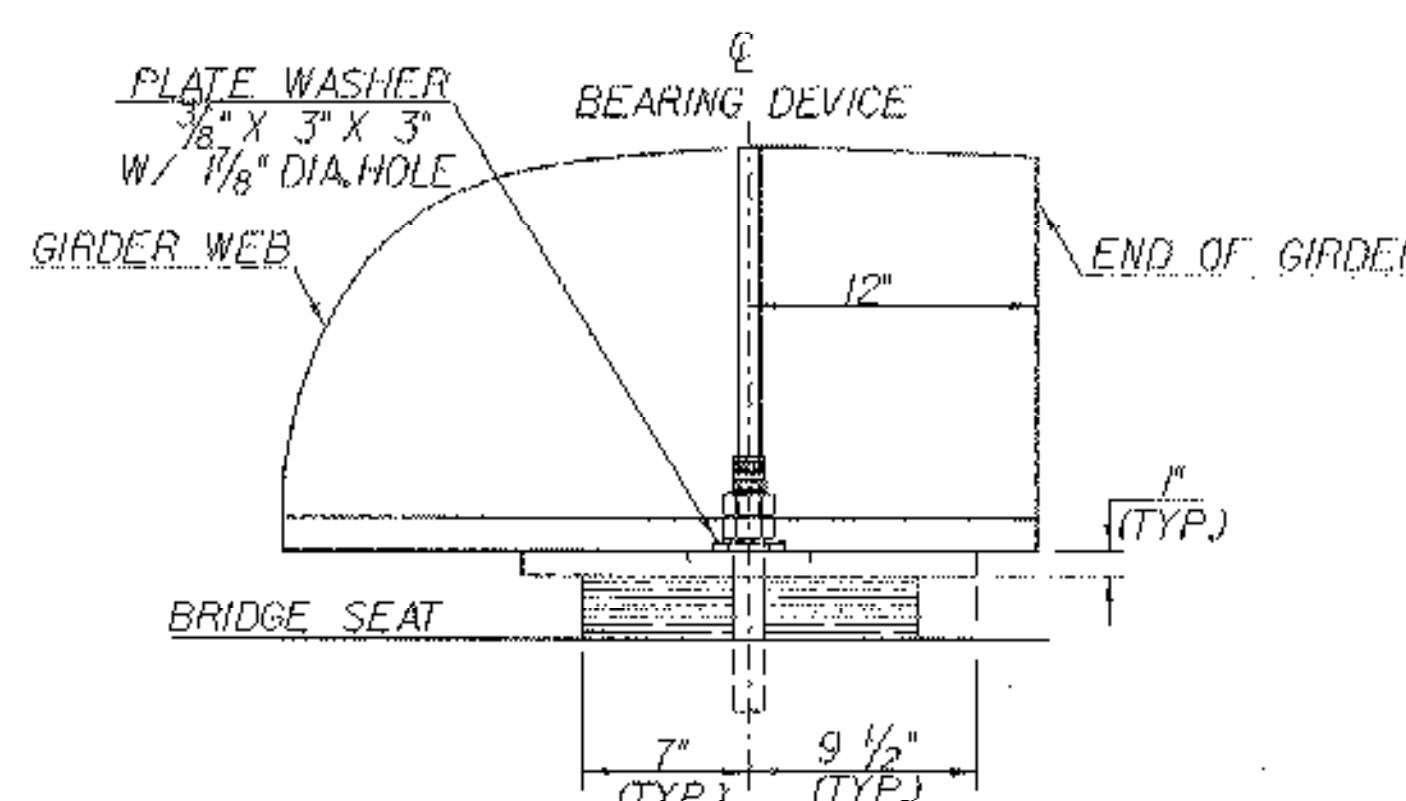


ABUTMENT #2



SIDE ELEVATION

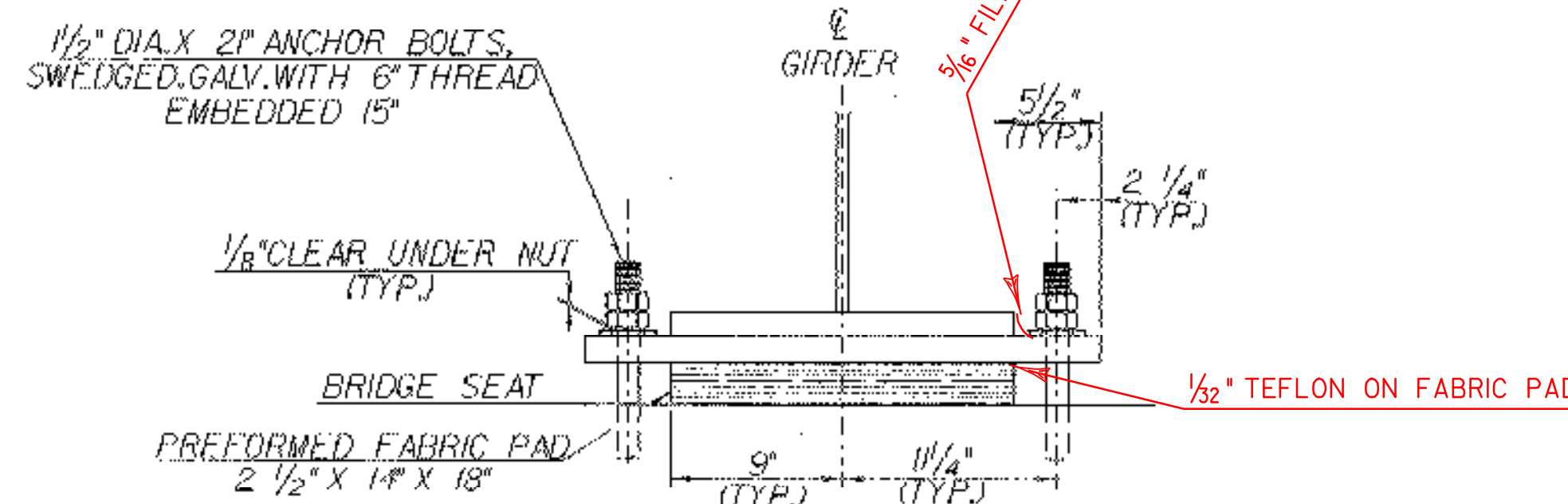
SCALE 1 1/2" = 1'-0"
1 9 6 3 0 1



EXPANSION BEARING DETAILS

FRONT VIEW

SCALE 1 1/2" = 1'-0"
1 9 6 3 0 1



FIXED BEARING DETAILS

TEMP	"A" DIST	"B" DIST
0° F	2 1/4"	3"
15° F	2 1/16"	2 7/16"
30° F	1 15/16"	2 1/16"
45° F	1 3/4"	2 1/2"
60° F	1 9/16"	2 9/16"
75° F	1 7/16"	2 3/16"
90° F	1 1/4"	2"
105° F	1 1/16"	1 13/16"

GIRDER #	ANGLE 1	ANGLE 2
1	69°-39"	3°-55"
2	69°-51"	3°-53"
3	70°-02"	3°-50"
4	70°-14"	3°-48"
5	70°-25"	3°-46"

BEARING DETAIL

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	DERBY	Bridge No.	64
Highway No.	VT 105	Log Sta.	
	VT 105 OVER THE CLYDE RIVER	Surv. Sta.	
BEARING DETAILS			
Designed By	M. EVANS-MONGEON	Drawn By	R.H. PELLETT
Checked By	M. EVANS-MONGEON	Bridge Design Supervisor	
	Date 12/99	C.S. KELLER	Date 12/99
PROJECT	DERBY	PROJECT NO.	BRF 034-3 (14)
I.G.C. Info. / dfr5/78/198/ of 198supdgn		of 198brg1	
Bridge Sheet No.		Sheet	64 of 127