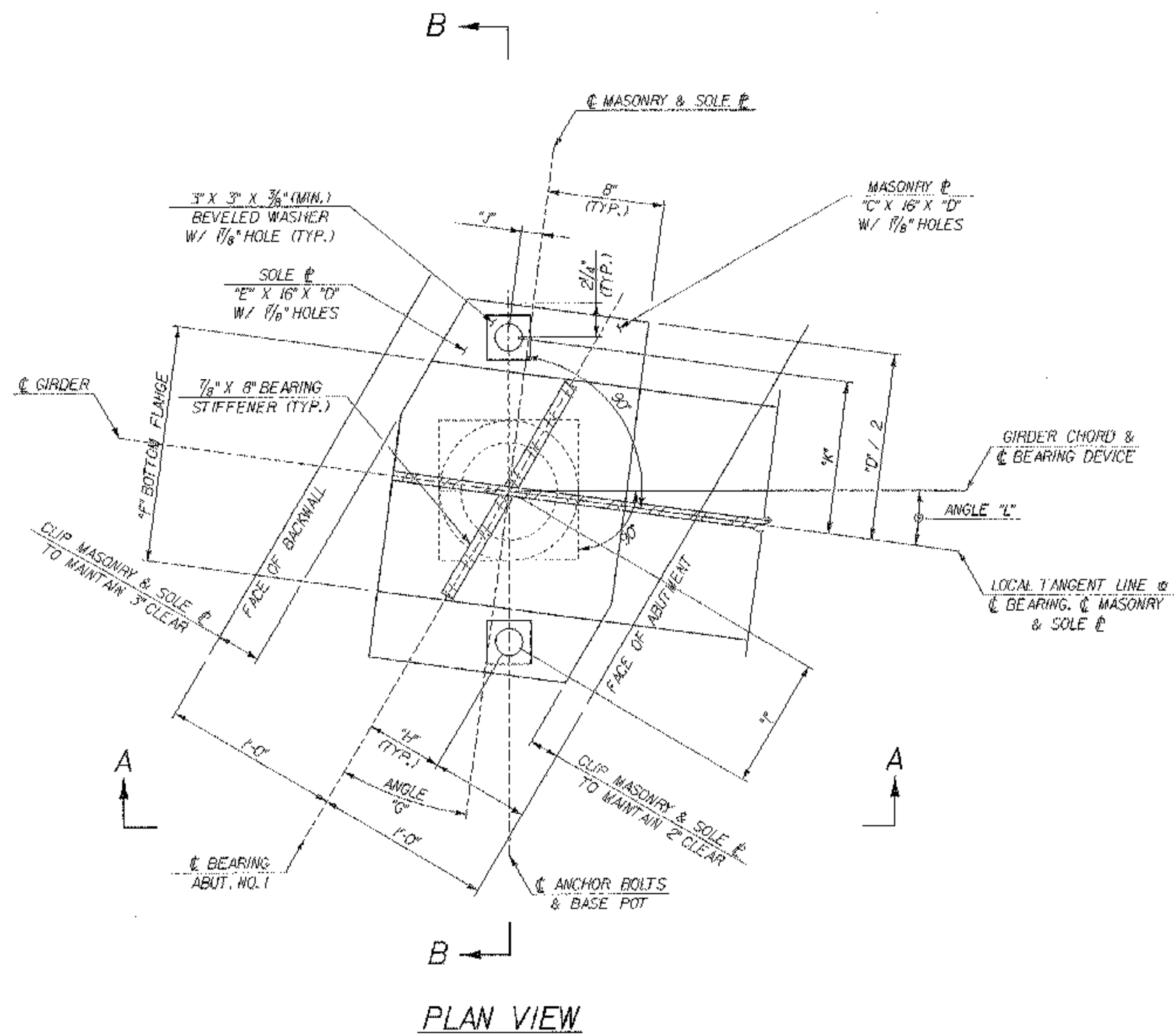
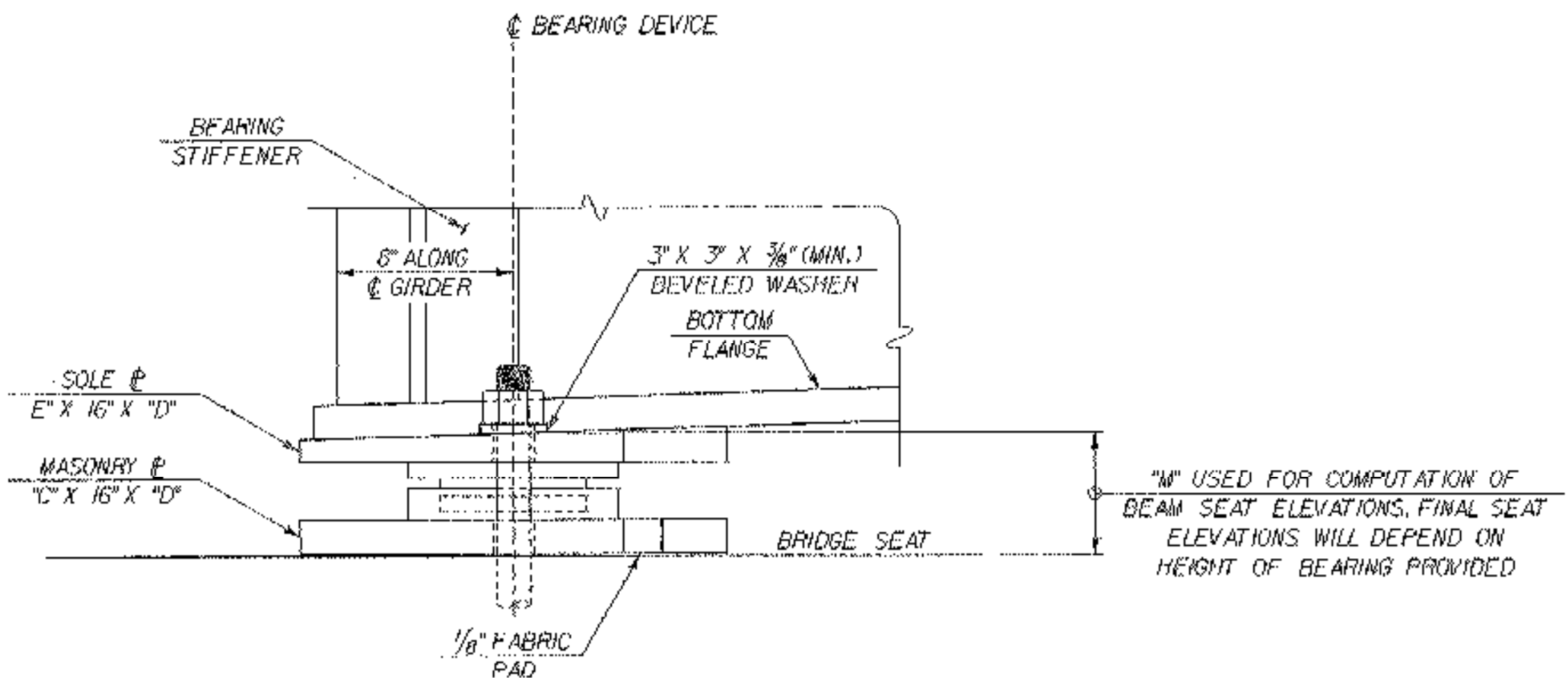


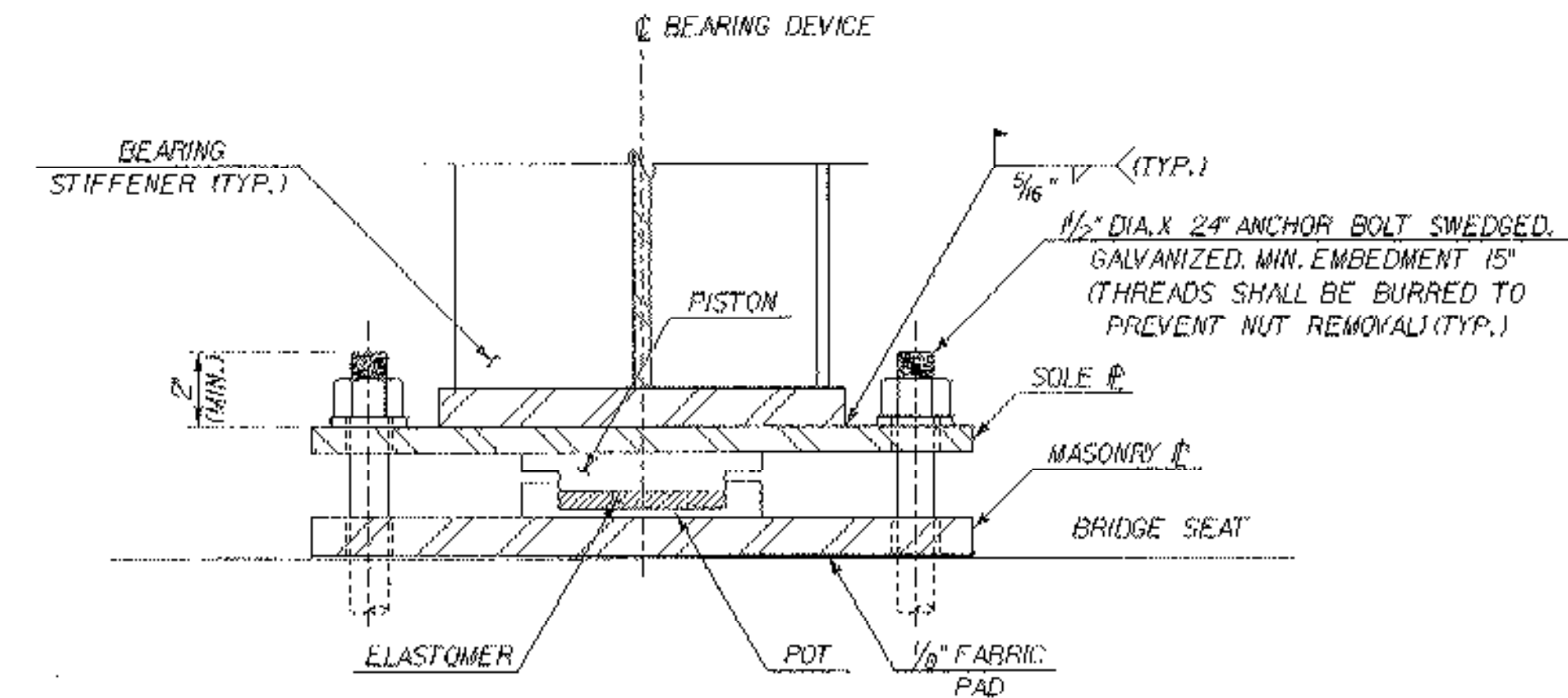
COSMEC POT BEARINGS



PLAN VIEW



SECTION A-A



SECTION B-B

FIXED BEARING DETAIL @ ABUTMENT NO. 1  
SCALE: 2" = 1'-0"

TABLE OF FIXED BEARING DIMENSIONS @ ABUTMENT NO. 1

GIRDER	PLATE THICKNESS DIM. "C"	PLATE LENGTH DIM. "D"	PLATE THICKNESS DIM. "E"	FLANGE WIDTH DIM. "F"	ANGLE "G" BETWEEN GIRD. & MASON. CL.	HOLE DIM. "H"	HOLE DIM. "I"	HOLE DIM. "J"	HOLE DIM. "K"	ANGLE "L" BETWEEN GIRDER CHORD & LOCAL TANGENT @ GIRD.	HEIGHT "M" BETWEEN TOP OF BRIDGE SEAT & BOTTOM OF GIRDER FLANGE
G1	1 1/2"	25"	1" TO 3/16"	16"	23°51'37"	4 1/2"	9 1/4"	1 1/2"	10 1/4"	8°04'48"	5 1/2"
G2	1 1/2"	25"	1" TO 3/16"	16"	23°51'37"	4 1/2"	9 1/4"	1 3/8"	10 1/4"	7°51'42"	5 1/2" 5 3/8"
G3	1 1/2"	25"	1" TO 3/16"	16"	22°53'55"	4 1/2"	9 1/4"	1 3/8"	10 1/4"	7°39'24"	5 1/2" 5 3/8"
G4	1 1/2"	25"	1" TO 3/16"	16"	22°28'50"	4 1/2"	9 1/4"	1 3/8"	10 1/4"	7°27'48"	5 1/2" 5 3/8"
G5	2 1/4"	32"	1" TO 3/16"	22"	22°00'50"	4 1/2"	1'-1"	1 3/4"	1'-1 1/4"	7°16'56"	6 1/4" 6 1/8"
G6	2 1/4"	32"	1" TO 3/16"	22"	21°35'50"	4 1/2"	1'-1"	1 3/8"	1'-1 1/4"	7°06'29"	6 1/4" 6 1/8"

BEARING NOTES

- BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731 AND SHALL BE PAID FOR UNDER THE ITEM 531.10, BEARING DEVICE ASSEMBLY.
- THE FIELD WELD CONNECTING THE BOTTOM FLANGE WITH THE BEARING DEVICE SHALL BE MADE WITH E7018 RODS.
- ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SECTION 531.04(b) AND 506.15(a) AND (b). AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDS OR HANDLING SHALL BE REPAIRED PER SUPPLEMENTAL SPECIFICATION 513.06(1).
- 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, AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
- BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATE CONFIGURATION. POT BEARING HEIGHTS VARY BETWEEN MANUFACTURERS AND NEED TO BE INCORPORATED APPROPRIATELY BY THE CONTRACTOR.
- THE CONCRETE SURFACE UNDER THE BEARING DEVICE SHALL BE LEVEL.
- "A" DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER THE CONCRETE SLAB, 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 IS POURED. 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 1/8".
- DESIGN CRITERIA:  
 A. BASE PLATE TO CONCRETE MAXIMUM DESIGN PRESSURE = 1000 PSI  
 B. MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIANS  
 C. HORIZONTAL CAPACITY SHALL BE A MINIMUM OF 10% OF VERTICAL LOAD. GUIDE BARS SHALL BE DESIGNED FOR THIS CAPACITY.  
 D. DESIGN LOAD PER BEARING = 182K AT ABUTMENT NO. 1 AND 193K AT ABUTMENT NO. 2.

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

Town of **CHESTER** Bridge No. **12**  
 Highway No. **VT 103** Loc. Sta. \_\_\_\_\_  
 Surv. Sta. \_\_\_\_\_  
**VT 103 OVER THE WILLIAMS RIVER**  
**ABUTMENT NO. 1 FIXED BEARING DETAILS**

Designed By **L. WIXSON** Drawn By **P. DUSTIN**  
 Checked By **T. GRANT** Date **10/00** Bridge Design Supervisor **M. ZYDEL** Date \_\_\_\_\_

PROJECT **CHESTER** PROJECT NO. **BRF 025-1(35)**

L.G.C. Info. **MS87b134-Structures\z134ef.bdgn** z134cfbj  
 Bridge Sheet No. **BR10** Sheet **54** of **79**  
 PLOTTED 28-MAY-2003

