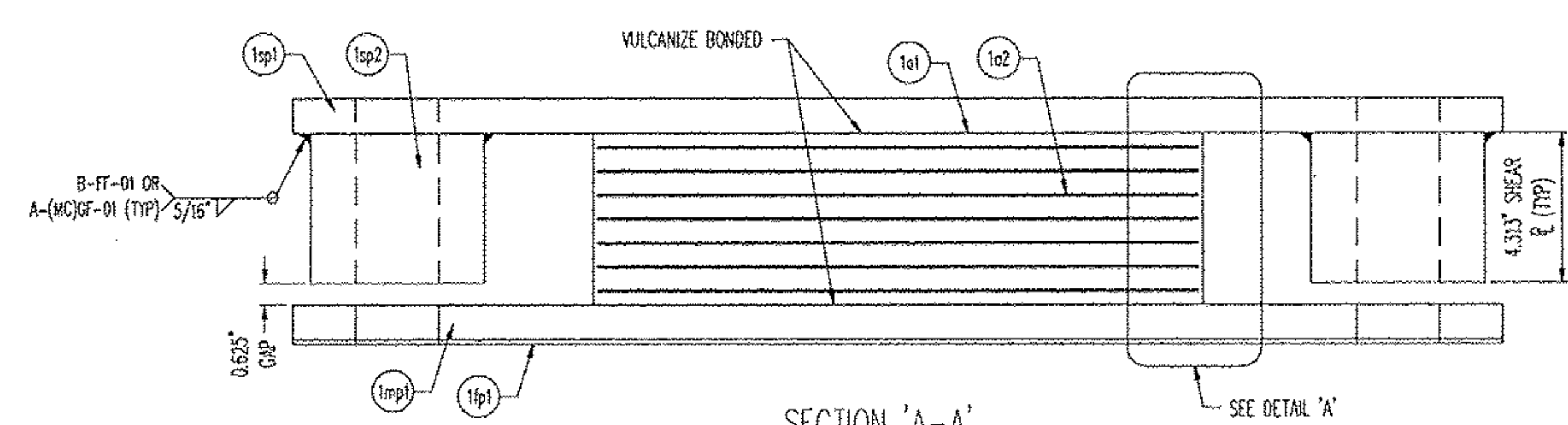


PLAN VIEW
ELASTOMERIC BEARING ASSEMBLY
(4) REQ'D @ ABUTMENT 1
(2) SAMPLES REQ'D W/O EXTERNAL STEEL



SECTION 'A-A'
ELASTOMERIC BEARINGS SHOWN SQUARE FOR CLARITY

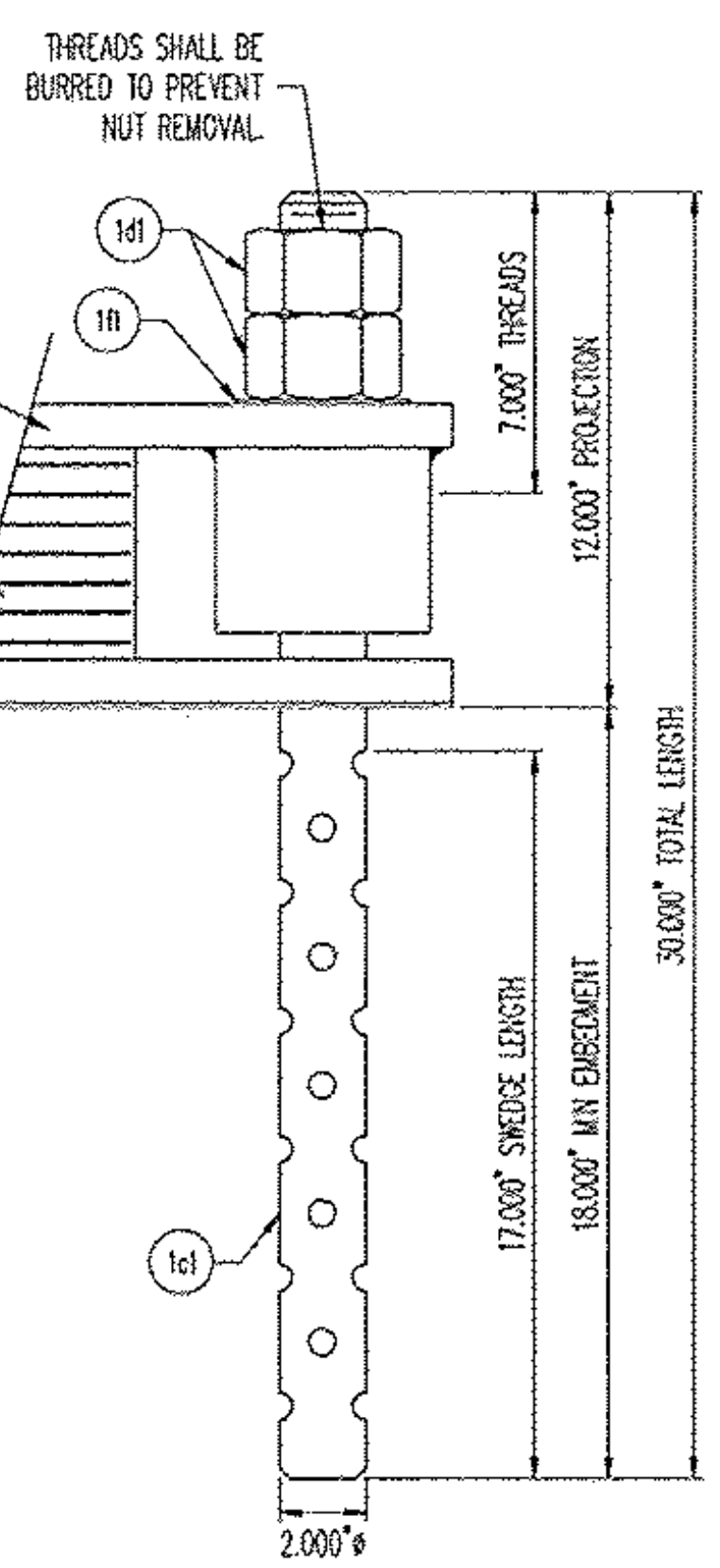
LOAD DATA	
DEAD LOAD (KIPS)	101.1
LIVE LOAD (KIPS)	103.7
TOTAL LOAD (KIPS)	204.8

GENERAL NOTES:

- PAD AND MATERIALS SHALL CONFORM TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, DATED 2006 AND THE LATEST REVISIONS, INCLUDING SUPPLEMENTARY SPECIFICATIONS, CONTRACT PLANS, AND THE SPECIAL PROVISIONS. GENERAL SHOP PRACTICES, STRUCTURAL FABRICATION, WELDING AND ASSEMBLY SHALL BE GOVERNED BY ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- THIS SHOP DRAWING WAS PREPARED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS. THE D.S. BROWN COMPANY DOES NOT ACCEPT LIABILITY FOR THE DESIGN OF THE PRODUCTS DETAILED IN THIS SHOP DRAWING.
- THE D.S. BROWN COMPANY TO SUPPLY ONLY THE PARTS SHOWN ON THIS DRAWING.
- ALL STEEL SHALL BE PRODUCED IN THE UNITED STATES OF AMERICA.
- ALL CORNERS AND EDGES OF STEEL PLATES SHALL BE GROUND TO A 1/16" RADIUS.
- THE BEARINGS SHALL BE SUBJECTED TO RANDOM IN-HOUSE ELASTOMER TESTING AND IN-HOUSE PROOF LOAD TESTING IN ACCORDANCE WITH AASHTO LRFD DESIGN SPECIFICATIONS, SECTION 14 (METHOD "A") AND AASHTO LRFD CONSTRUCTION SPECIFICATIONS, SECTION 18.
- ALL SPECIFIED STEEL TO BE GALVANIZED SHALL BE IN ACCORDANCE WITH ASTM A123 SPECIFICATIONS.
- GALVANIZING THAT HAS BEEN DAMAGED SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780, STANDARD PRACTICE FOR REPAIR OF THE DAMAGES HOT DIPPED GALVANIZED COATINGS, ANNEX A2. THE PAINT USED IN THE REPAIR SHALL BE ORGANIC ZINC-RICH CONTAINING 92 PERCENT (MIN) ZINC BY WEIGHT, IN THE DRY FILM. THE PAINT SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS TO A THICKNESS EQUIVALENT TO THE SURROUNDING GALVANIZING.
- WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE TEMPERATURE TO A MAXIMUM OF 93°C (200°F) FOR SURFACES IN CONTACT WITH THE ELASTOMER. TEMPERATURES SHALL BE DETERMINED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS.
- TESTING SHALL BE IN ACCORDANCE WITH AASHTO M251.

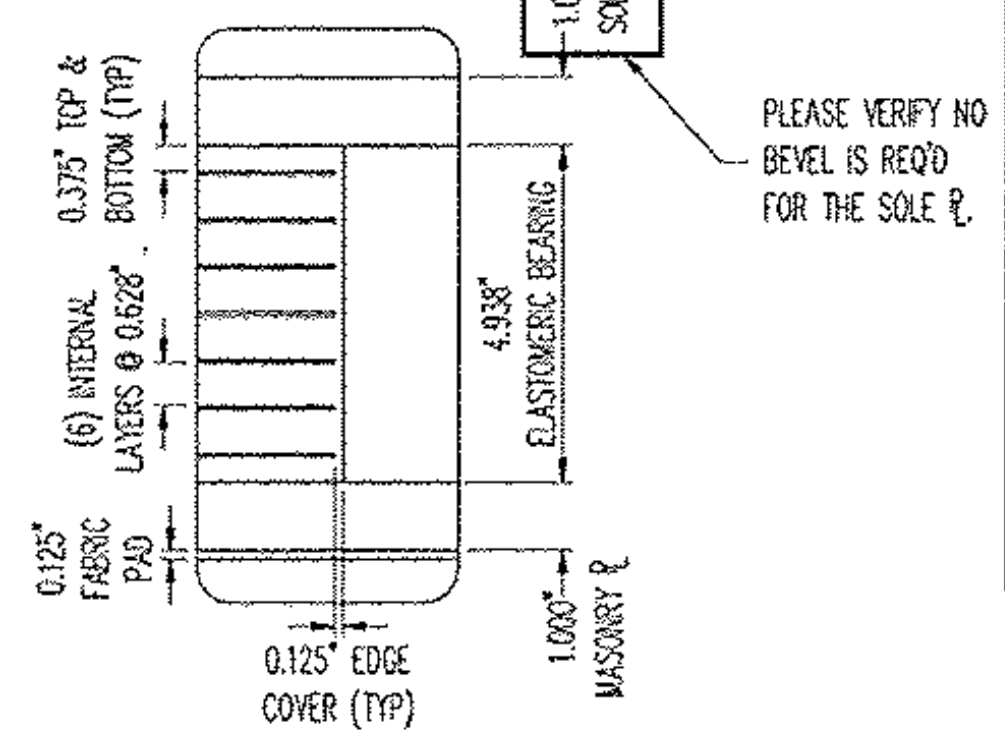
PLEASE VERIFY THE HOLE SIZE. THIS INFORMATION WAS NOT GIVEN IN THE CONTRACT PLANS.

Ø2.375" HOLE THRU SOLE PLATE, SHEAR PLATE, MASONRY PAD & FABRIC PAD FOR Ø2.000" SWEDGED ANCHOR ROD (TYP)



ANCHOR ROD DETAIL

FLATNESS TOLERANCE	
CLASS	X NOM. DIM.
A	0.001
B	0.002
C	0.005



DETAIL 'A'

MK	QTY	DESCRIPTION	MATERIAL	LENGTH	REMARKS	REV
1A	4	ELASTOMERIC BEARING ASSEMBLY		15.000"	50+/-5 DURO GR.4	--
1a1	4	4.938" X 17.500"	NATURAL RUBBER	14.750"	PLAN	--
1a2	28	16 GA. X 17.250"	A1011 GR. 36	21.000"	A123-HDG	--
1sp1	4	1.000" X 34.750"	A709 GR. 36	21.000"	A123-HDG	--
1sp2	16	1.000" X 34.750"	A709 GR. 36	21.000"	A123-HDG	--
1sp2	16	4.313" X 5.000"	A36	5.000"	A123-HDG	--
1B	4	FABRIC PAD				--
1fp1	4	0.125" X 34.750"	VT 731.01	21.000"	HOLES	--
1C	16	ANCHOR ROD				--
1c1	16	Ø2.000" X 30.000" SWEDGED ROD	F1554 GR. 36		7" THREADS, 17" SWEDGE, A153-HDG	--
1D	32	HEAVY HEX NUT				--
1d1	32	Ø2.000" HEX NUT	A563-DH OR A194-2H		A153-HDG, DRY LUBE & DYE	--
1E	16	ELASTOMERIC WASHER				--
1e1	16	0.125" X Ø4.000"	NEOPRENE		70+/-5 DURO GR.3; 2.063" Ø HOLE CENTERED	--
1G	2	SAMPLE ELASTOMERIC BEARING				--
1g1	2	4.938" X 17.500"	NATURAL RUBBER	15.000"	50+/-5 DURO GR.4	--
1g2	14	16 GA. X 17.250"	A1011 GR. 36	14.750"	PLAN	--
					11/1/2011 2:31:02 PM	

TOLERANCE TABLE	
DESCRIPTION (ELASTOMER)	TOLERANCE
ELASTOMERIC BEARING DESIGN THICKNESS > 1.250"	+ 1/4", -0
ELASTOMERIC BEARING PLAN ≤ 36"	+ 1/4", -0
ELASTOMERIC BEARING PLAN > 36"	+ 1/2", -0
ELASTOMERIC COVER TOP & BOTTOM	+ 1/8", -0
ELASTOMERIC COVER SIDES	+ 1/8", -0
THICKNESS OF INDIVIDUAL LAYERS OF ELASTOMER (LAMINATED BEARINGS ONLY) AT ANY POINT WITHIN THE BEARING	± 1/8"
VARIATION FROM A PLANE PARALLEL TO THE THEORETICAL SURFACE (AS DETERMINED BY MEASUREMENTS AT THE EDGE OF THE BEARINGS)	
TYP	± 0.005 rad
SIDES	± 1/4"
POSITION OF EXPOSED CONNECTION MEMBERS	± 1/8"
EDGE COVER OF EMBEDDED LAMINATES OF CONNECTION MEMBERS	+ 1/8", -0
SIZE OF HOLES, SLOTS, OR INSERTS	± 1/8"
POSITION OF HOLES, SLOTS, OR INSERTS	± 1/8"
STEEL PLATE PLAN DIMENSIONS	± 1/4"
STEEL PLATE THICKNESS	± 1/16"
HOLE OR SLOTS LOCATION	± 1/16"
SIZE OF HOLES & SLOTS	± 1/16"
STEEL PLATE SURFACE FINISH	× 125 RMS
STEEL PLATE SURFACE FLATNESS	× CLASS A

* FOR SURFACES IN CONTACT WITH THE ELASTOMER, PRIOR TO GALVANIZATION.

REV.	DESCRIPTION	DATE	DET.	CHKD.

LOCATION -- VT RT 12 OVER LOCUST CREEK	ITEM	QUANTITY
PROJ. NAME -- BETHEL	34421-1104-1	4 OF 4
PROJECT NO. -- BHF 0241(30)	34421-1103-1	2 OF 2
P.O. NO. -- C-3190		
CUSTOMER -- WINTERSET, INC		

SCALE: N.T.S.	DATE: 10/28/11
PROJECT NUMBER: 34421	SHEET: 01

Vermont Agency of Transportation
RECEIVED
CK'D BY U. Stanley OK'D BY C. Carlson
NOV. 02 2011
RESUBMIT BY CWC APPROVED DATE 11/8/11

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