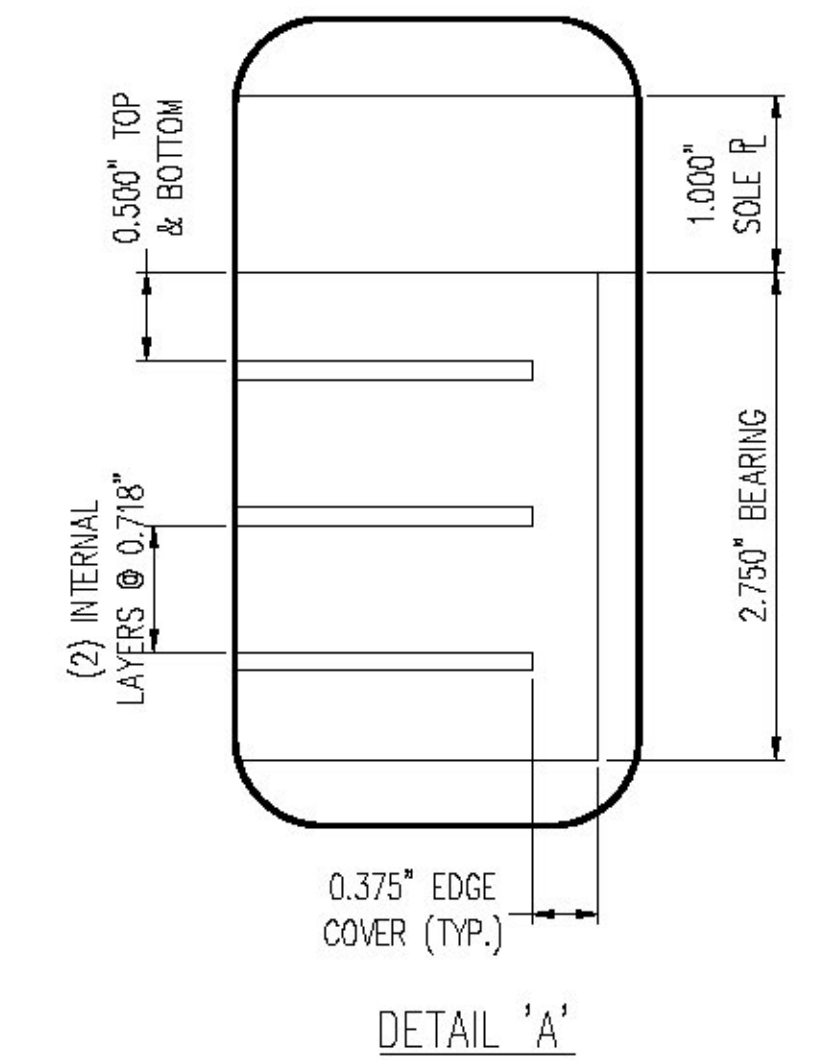
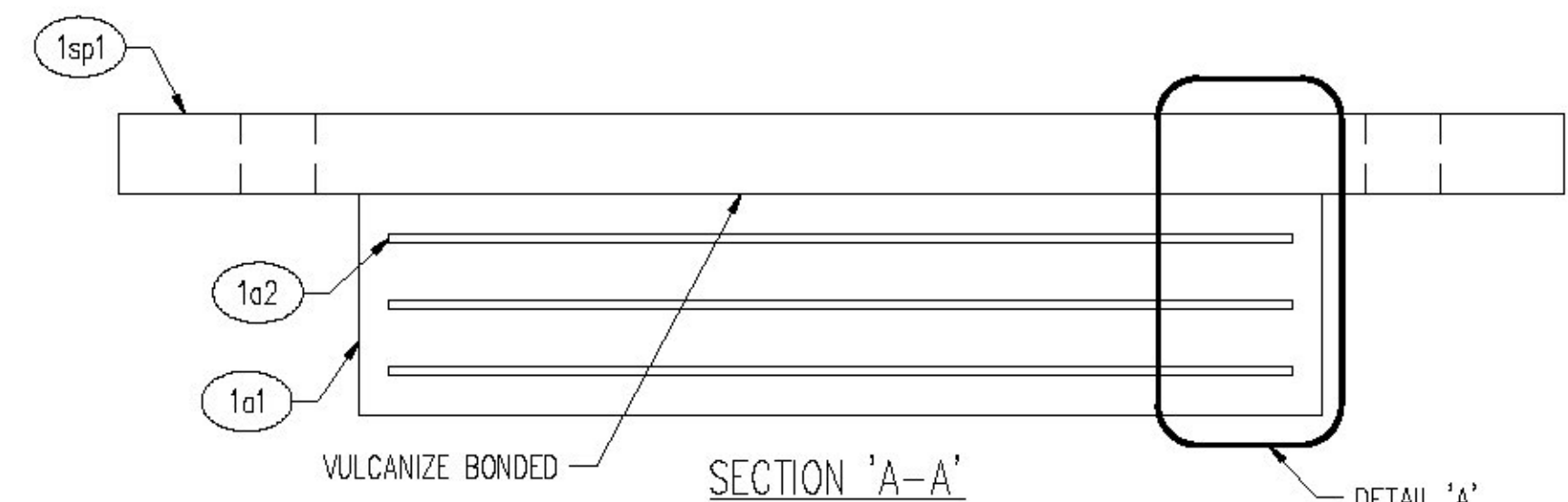


PLAN VIEW
ELASTOMERIC BEARING
(6) REQ'D @ ABUT. 1
(6) REQ'D @ ABUT. 2
(2) REQ'D SAMPLES W/O EXTERNAL STEEL



GENERAL NOTES:

- MATERIALS SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011 AND ITS THE LATEST REVISIONS, CONTRACT PLANS, AND THE SPECIAL PROVISIONS. GENERAL SHOP PRACTICES, STRUCTURAL FABRICATION, WELDING AND ASSEMBLY SHALL BE GOVERNED BY ANS/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 SHOP DRAWING.
- THE BEARINGS SHALL BE SUBJECT TO RANDOM IN-HOUSE ELASTOMER TESTING AND IN-HOUSE PROOF LOAD TESTING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 14 (METHOD 'A') AND AASHTO LRFD CONSTRUCTION SPECIFICATIONS SECTION 18.
- IN ACCORDANCE WITH STANDARD SPECIFICATION, FABRICATOR MAY USE NATURAL RUBBER FOR THE ELASTOMER.
- 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 FOR GALVANIZING.
- ALL EXTERNAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 SPECIFICATIONS. IN ACCORDANCE WITH SECTION 726.08 OF THE STANDARD SPECIFICATIONS, REPAIR DAMAGED GALVANIZING PER ASTM A780, ANNEX A2. THE PAINT USED IN THE REPAIR SHALL BE ORGANIC-ZINC, CONTAINING 92% MINIMUM ZINC BY WEIGHT IN THE DRY FILM. THE PAINT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS TO A THICKNESS EQUIVALENT TO THE SURROUNDING GALVANIZING.
- GALVANIZATION LIFTING DEVICES MAY BE WELDED TO PARTS IF NECESSARY. WHEN THEIR USE IS COMPLETE, REMOVE AND GRIND FLUSH ALL CONNECTION LOCATIONS. REPAIR AREA PER ASTM A780, ANNEX A2.
- HOLES FOR BOLTED CONNECTION MAY BE THERMALLY CUT.
- BEARING MANUFACTURING FACILITY AND REPRESENTATIVE FOR COORDINATING PRODUCTION:
THE D.S. BROWN COMPANY
300 EAST CHERRY STREET
NORTH BALTIMORE, OHIO 45872
CSR - ERIC JOHNSON - (419) 257-3561

MARKING NOTES:

- EACH BEARING SHALL BE PERMANENTLY MARKED. THE MARKING SHALL CONSIST OF THE ORDER NUMBER, LOT NUMBER, PAD IDENTIFICATION NUMBER, AND ELASTOMER TYPE AND GRADE. WHERE POSSIBLE, THE MARKING SHALL BE ON A FACE WHICH IS VISIBLE AFTER ERECTION OF THE STRUCTURE.
- IF APPLICABLE, MARK THE THICKER EDGE OF THE BEVELED PLATE FOR IDENTIFICATION IN THE FIELD.

CONTRACTOR NOTES:

- WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE TEMPERATURE TO A MAXIMUM OF 200°F (93°C) FOR SURFACES IN CONTACT WITH THE ELASTOMER. TEMPERATURES SHALL BE DETERMINED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS.

TESTING NOTES:

- THE BEARING SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH AASHTO M251, APPENDIX X1.

Vermont Agency of Transportation
RECEIVED
CK'D BY chenette OK'D BY WBP
February 13, 2017
RESUBMIT NO Approved AsNoted
BY WPELLETIER DATE 02/17/2017

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED
REVISED AND RESUBMITTED
NOT REVIEWED
Date: 02/17/17

By: Michael J. Chenette

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and each review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and coordinated at the job site, for information that pertains solely to the fabrication, processing or to techniques of construction and installation and for coordination of the work of all subcontractors.

D.S. BROWN
A GIBRALTAR INDUSTRIES COMPANY
THE D.S. BROWN COMPANY
300 E. CHERRY STREET
NORTH BALTIMORE, OHIO 45872
419.257.3561
FAX: 419.257.0332
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MK	QTY	DESCRIPTION	MATERIAL	LENGTH	REMARKS	WT*	REV
1A	12	ELASTOMERIC BEARING	51781.1104.1			104	
1a1	12	2.750" X 12.000"	NATURAL RUBBER	12.000"	130-175 PSI; GRADE 4	16	
1a2	36	12 GA. X 11.250"	A1011 GR 36	11.250"	PLAIN	4	
1sp1	12	1.000" X 18.000"	M270 GR 36 (A709)	15.000"	A123-HDG	77	
1B	51	HEX HEAD BOLT	51781.1104.1			< 1	
1hb1	51	Ø0.875" X 3.750" HEX HEAD BOLT	M164 (A325)		M232-HDG (A153); ROCAP	< 1	
1C	102	FLAT WASHER	51781.1104.1			< 1	
1fw1	102	Ø0.875" FLAT WASHER	M293 (F436)		M232-HDG (A153); ROCAP	< 1	
1D	51	HEAVY HEX NUT	51781.1104.1			< 1	
1hn1	51	Ø0.875" HEX NUT	M291-DH OR M292-2H (A563 OR A194) HEAVY HEX		M232-HDG (A153), DRY LUBE & DYE; ROCAP	< 1	
1F	2	ELASTOMERIC BEARING SAMPLES	51781.1103.1			27	
1a1	2	2.750" X 12.000"	NATURAL RUBBER	12.000"	130-175 PSI; GRADE 4	16	
1a2	6	12 GA. X 11.250"	A1011 GR 36	11.250"	PLAIN	4	
		*Approx. Gross Wt. Lbs Per Single Unit					2/9/17 8:20:15 AM

TOLERANCE TABLE	
DESCRIPTION	TOLERANCE (INCHES U.N.O.)
ELASTOMERIC BEARING DESIGN THICKNESS ≤ 1.250"	-0, +0.1181
ELASTOMERIC BEARING DESIGN THICKNESS > 1.250"	-0, +0.2362
ELASTOMERIC BEARING PLAN DIMENSIONS ≤ 36"	-0, +0.2362
ELASTOMERIC BEARING PLAN DIMENSIONS > 36"	-0, +0.4724
THICKNESS OF INDIVIDUAL LAYERS OF ELASTOMER (LAMINATED BEARINGS ONLY) AT ANY POINT WITHIN THE BEARING	±0.1181
VARIATION FROM A PLANE PARALLEL TO THE THEORETICAL SURFACE (AS DETERMINED BY MEASUREMENTS AT THE EDGE OF THE BEARINGS) (PARALLELISM):	
TOP & BOTTOM	±0.005 RAD
SIDES	±0.2362
POSITION OF EXPOSED CONNECTION MEMBERS	±0.1181
ELASTOMERIC EDGE COVER	-0, +0.1181
ELASTOMERIC BEARING HOLE OR SLOT SIZE	±0.1181
ELASTOMERIC BEARING HOLE OR SLOT LOCATION	±0.1181
STEEL PLATE THICKNESS	±0.063
STEEL PLATE PLAN DIMENSIONS ≤ 30"	±0.250
STEEL PLATE PLAN DIMENSIONS > 30"	±0.250
STEEL PLATE FLATNESS IN CONTACT WITH BEARING	0.001 X NOM. DIMENSION
STEEL PLATE FLATNESS: GROUT OR CONCRETE SIDE	0.005 X NOM. DIMENSION
STEEL PLATE FLATNESS: STEEL GIRDER SIDE	0.002 X NOM. DIMENSION
STEEL PLATE FLATNESS: STEEL PLATE SIDE	0.001 X NOM. DIMENSION
STEEL PLATE SURFACE FINISH IN CONTACT WITH BEARING	125 μ" RMS
BEVEL SLOPE	±0.002 RAD
CONNECTION HOLE OR SLOT SIZE	-0, +0.03125
CONNECTION HOLE OR SLOT LOCATION	±0.03125
NOTE: SURFACE FINISH & FLATNESS TOLERANCES ARE PRIOR TO COATING.	

REV.	DESCRIPTION	DATE	DET.	CKD.
	LOCATION — ROUTE NO. VT RTE 242, RURAL MAJOR COLLECTOR BRIDGE			
	BRIDGE — NO. 10			
	PROJECT — BHF 0278 (3)			
	PROJECT NAME — JAY			
	P.O. NO. — 2016-0512			
	DESIGNER — STANTEC			
	CUSTOMER — A.L. ST. ONGE CONTRACTOR, INC.			
DESCRIPTION: VERSIFLEX ELASTOMERIC BEARING ORLEANS CO., VT				
SCALE: N.T.S.	DRAWN BY: DA	CHECKED BY: ECW	DATE: 2/17	
PROJECT NUMBER: 51781	PRODUCT CODE: 1104	RELEASE: 1	SHEET: 01	