

COSMEC INC. / DYNAMIC RUBBER

P.O. Box 2159
1501 Rocky Ridge Road
Athens, TX 75751
TEL: 903.677.2871 FAX: 903.675.4776

TRANSMITTAL SHEET

TO: A.L. ST.ONGE CONTRACTOR

ATTN: STACY ST. ONGE alstonge@pivot.net

CC: KERRY MARCHAND

DATE: 5/28/14

JOB: BRO 1448 (40)

RE: SHOP DRAWINGS SUBMITTAL FOR APPROVAL

DRP JOB NO: 12341 LOCATION: FRANKLIN CO., VT

WE TRANSMIT TO YOU UNDER SEPARATE COVER HERE WITH THE FOLLOWING DRAWINGS:

DWG NO	REV NO	NO EACH	DESCRIPTION	REMARKS
12341-GN1	1	1	GENERAL NOTES	
12341-E1	0	1	ERECTION DIAGRAM	
12341-D1	1	1	SHOP DRAWING	
12341-D2	1	1	SHOP DRAWING	
12341-D3	0	1	SHOP DRAWING	

DWG NO	REV NO	NO EACH	DESCRIPTION	REMARKS

COMMENTS: **THE ATTACHED SHOP DRAWINGS ARE**
SUBMITTED FOR APPROVAL. PLEASE FORWARD THIS
PACKAGE TO THE ENGINEER FOR REVIEW AND ADVISE
THE APPROVAL STATUS AS SOON AS POSSIBLE.

THE ABOVE PRINTS ARE SUBMITTED TO YOU FOR:

<input type="checkbox"/> (XXX) Approval	<input type="checkbox"/> () Final Approval	<input type="checkbox"/> () Distribution
<input type="checkbox"/> () Field Use	<input type="checkbox"/> () Fabrication	<input type="checkbox"/> (XXX) E-MAIL
BY: <input type="checkbox"/> () Next Day Air	<input type="checkbox"/> () Second Day Air	<input type="checkbox"/> () Messenger
<input type="checkbox"/> () UPS	<input type="checkbox"/> () First Class Mail	<input type="checkbox"/> () Fax

Thank you
JENNIFER GARZA
COSMEC INC. / DYNAMIC RUBBER PRODUCTS
WWW.COSMECINC.COM

GENERAL NOTES

GENERAL NOTES:

1. ALL BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531, 714, AND 731 OF THE 2011 VTAOT STANDARD SPECIFICATIONS.
2. ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND AN ARROW THAT POINTS UPSTATION. MARKS SHALL BE PERMANENT AND SHALL BE VISIBLE AFTER THE BEARING IS INSTALLED.
3. SHOP TO MARK HIGH SIDE OF THE PAD.
4. VTAOT WILL BE NOTIFIED (7) DAYS BEFORE THE START OF FABRICATION.
5. ALL DIMENSIONS ARE IN INCHES.
6. COSMEC REPRESENTATIVE KERRY MARCHAND:
(508) 455-3290

MATERIAL NOTES:

1. ELASTOMER: 60 DUROMETER GR. 4 NATURAL RUBBER WITH A SHEAR MODULUS OF 152 PSI +/- 15%
2. INTERNAL STEEL SHIMS: ASTM A36, A1011 GR. 36 OR EQUAL
3. EXTERNAL SHIM PLATE: AASHTO M270M/M270 GRADE 36 (GALVANIZED)

CONTRACTOR NOTES:

1. NONE

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		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: <i>5/29/2014</i>		
By: <i>James Henge</i>		
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 such 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 correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.		

Vermont Agency of Transportation

RECEIVED

ON: **May 28, 2014**

and Checked for

CONFORMANCE

BY: **Rob Young** DATE: **05/29/2014**

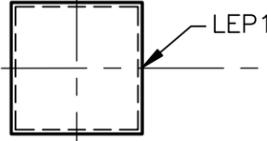
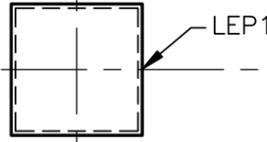
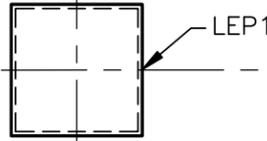
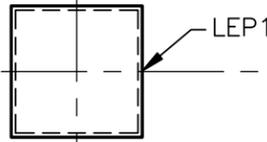
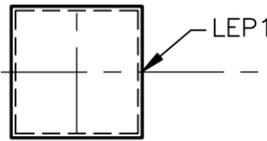
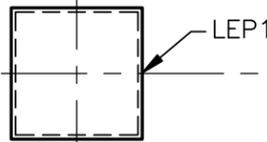
FINISH NOTES:

1. GALVANIZED IN ACCORDANCE WITH SUBSECTION 726.08.

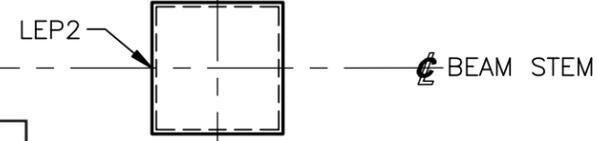
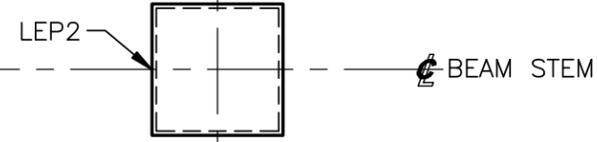
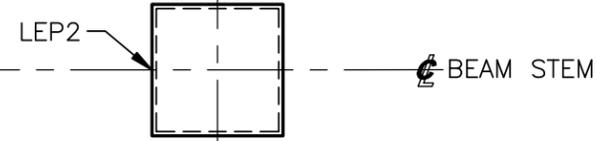
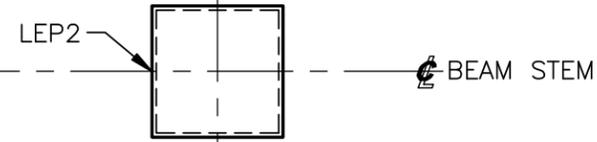
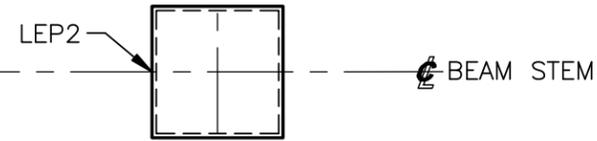
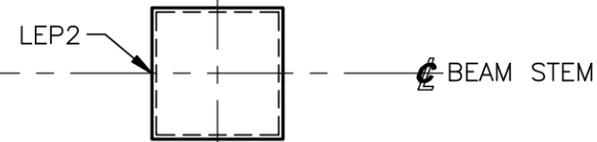
STATE OF VERMONT AGENCY OF TRANSPORTATION TOWN OF ENOSBURG BOSTON POST ROAD T.H. 2 CLASS 2, BRIDGE NO: 48		
STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A
PROJ. NO.: BRO 1448 (40)		
DYNAMIC RUBBER: LAMINATED BEARING PADS		
		1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751
SCALE: NONE	DRAWN BY: CV DATE: 3/7/14	CHECKED BY: ELS DATE: 3/11/14
JOB NO.: 12341		
REV.	DESCRIPTION	BY DATE CK'D DATE
CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.		DRAWING NUMBER REV. 12341-GN1 1

	REVISED ELASTOMER TYPE FROM NEOPRENE TO NATURAL RUBBER PER RF1	JG	5/27/14	SL	5/27/14
SHEET GN1 OF 1					

BEARING AT ABUTMENT 1



BEARING AT ABUTMENT 2



AHEAD STATION →

ERECTION DIAGRAM

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		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 5/29/2014		
By: <i>James Hays</i>		
<small>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 such 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 correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.</small>		

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 TOWN OF ENOSBURG
 BOSTON POST ROAD T.H. 2
 CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

**DYNAMIC RUBBER:
 LAMINATED BEARING PADS**

Cosmea 1501 ROCKY RIDGE ROAD
 P.O. BOX 2159
 ATHENS, TEXAS 75751

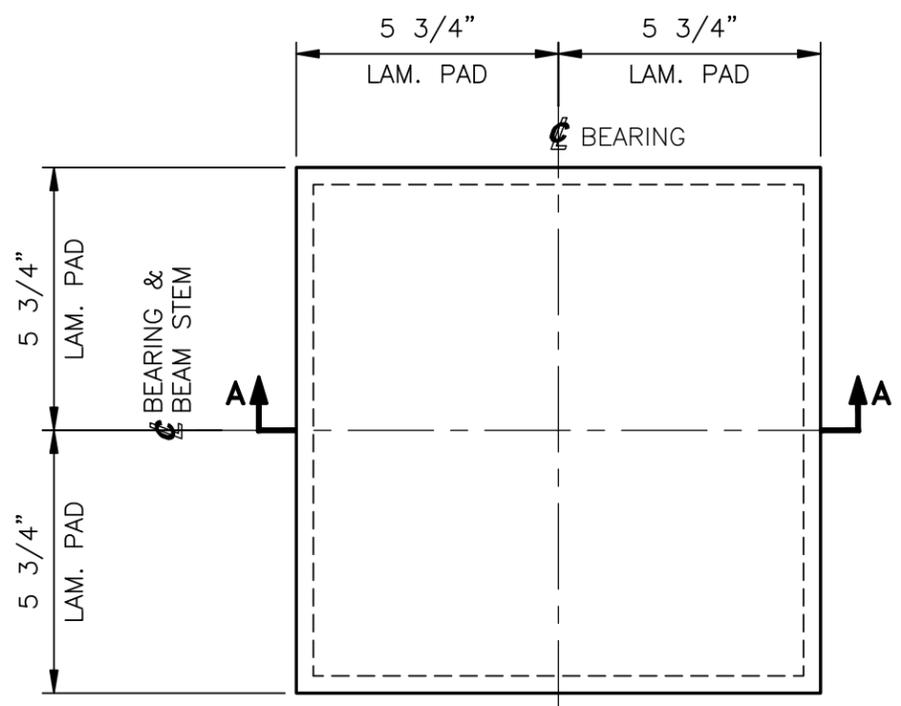
SCALE: NONE	DRAWN BY: CV	CHECKED BY: ELS
	DATE: 3/7/14	DATE: 3/11/14

SHEET E1 OF 1 **JOB NO.: 12341**

CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.	DRAWING NUMBER 12341-E1	REV. 0
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Vermont Agency of Transportation
RECEIVED
 ON: May 28, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 05/29/2014

△					
REV.	DESCRIPTION	BY	DATE	CK'D	DATE



PLAN VIEW

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

REVISE AND RESUBMIT

NOT REVIEWED

Date: 5/29/2014

By: James Hagedorn

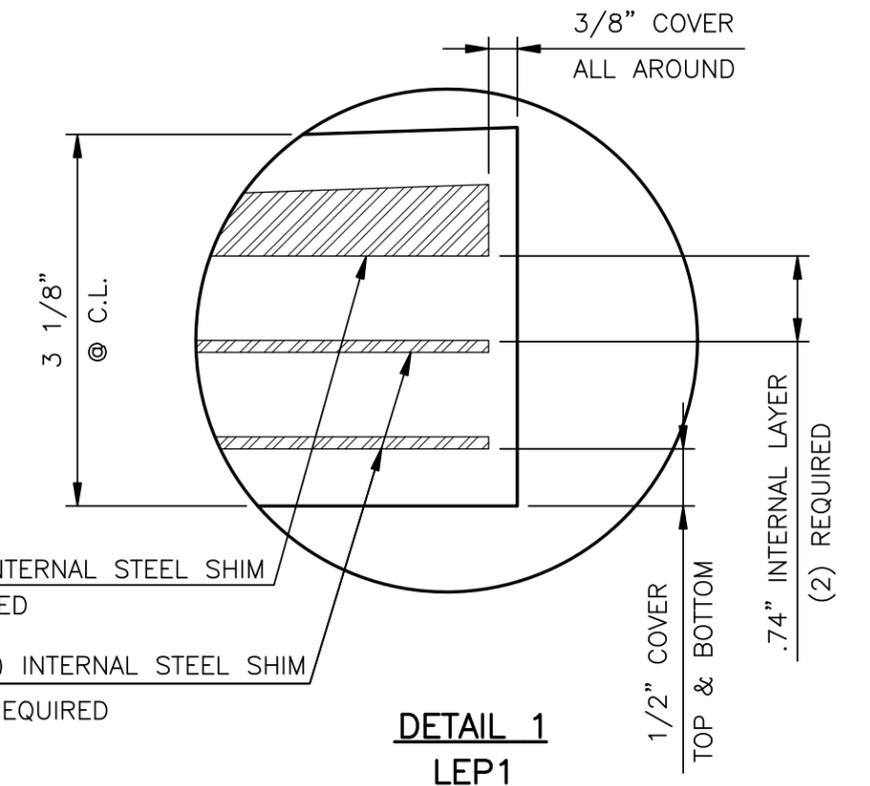
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1/4" - 5/8" TAPERED INTERNAL STEEL SHIM (1) REQUIRED

12 GA. (.1046" NOM.) INTERNAL STEEL SHIM (2) REQUIRED



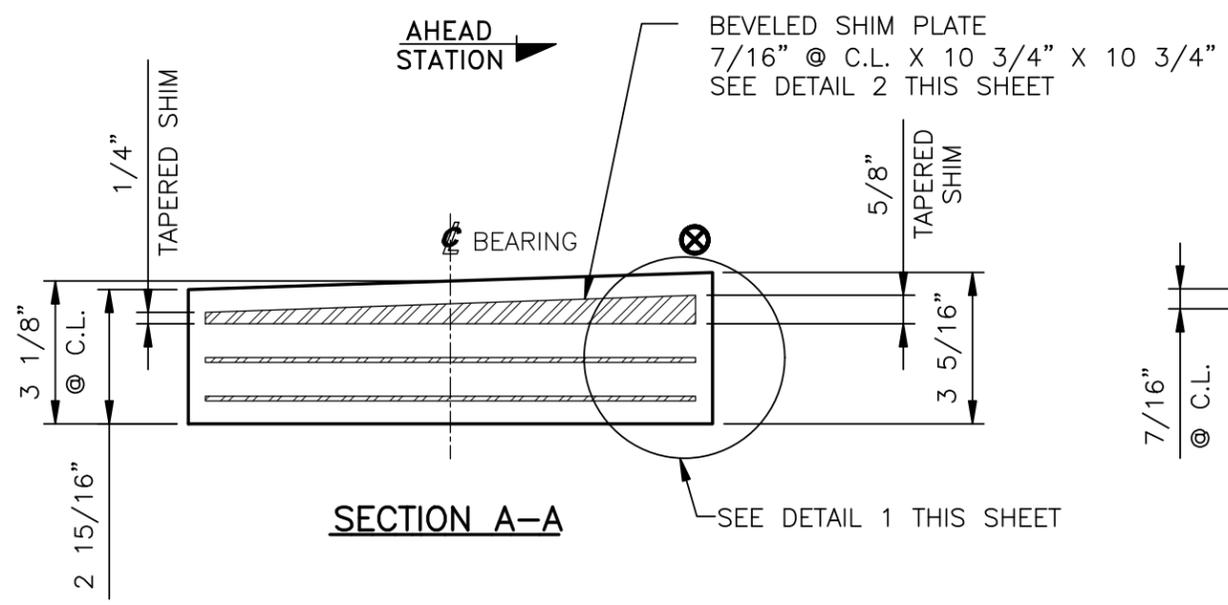
DETAIL 1
LEP1

BEVELED LAMINATED BEARING PAD
 3 1/8" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NATURAL RUBBER
 (6) REQUIRED AT ABUTMENT 1

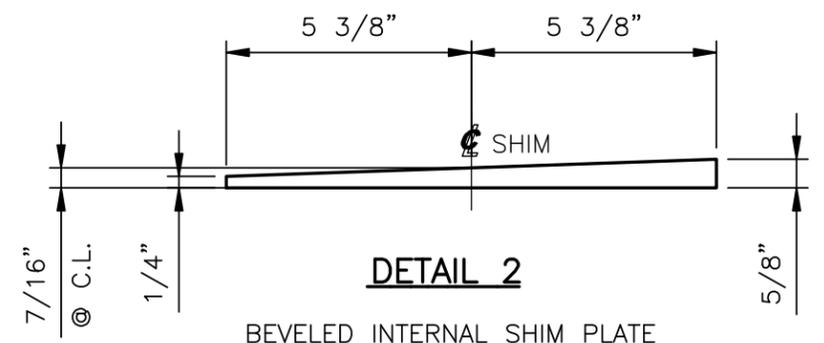
TEST 1

BEVELED LAMINATED BEARING PAD
 3 1/8" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NATURAL RUBBER
 (2) REQUIRED FOR TESTING

MAX. DESIGN LOAD
 DEAD LOAD = 35.8 kips
 LIVE LOAD = 38.8 kips



SECTION A-A



DETAIL 2

BEVELED INTERNAL SHIM PLATE
 7/16" @ C.L. X 10 3/4" X 10 3/4"
 AASHTO M270M/M270 GR. 36
 (6) REQUIRED AT ABUTMENT 1

LAMINATED ELASTOMERIC BEARING PAD
 LEP1
 (6) REQUIRED ABUTMENT 1

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 TOWN OF ENOSBURG
 BOSTON POST ROAD T.H. 2
 CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

DYNAMIC RUBBER:
LAMINATED BEARING PADS

Cosmea 1501 ROCKY RIDGE ROAD
 P.O. BOX 2159
 ATHENS, TEXAS 75751

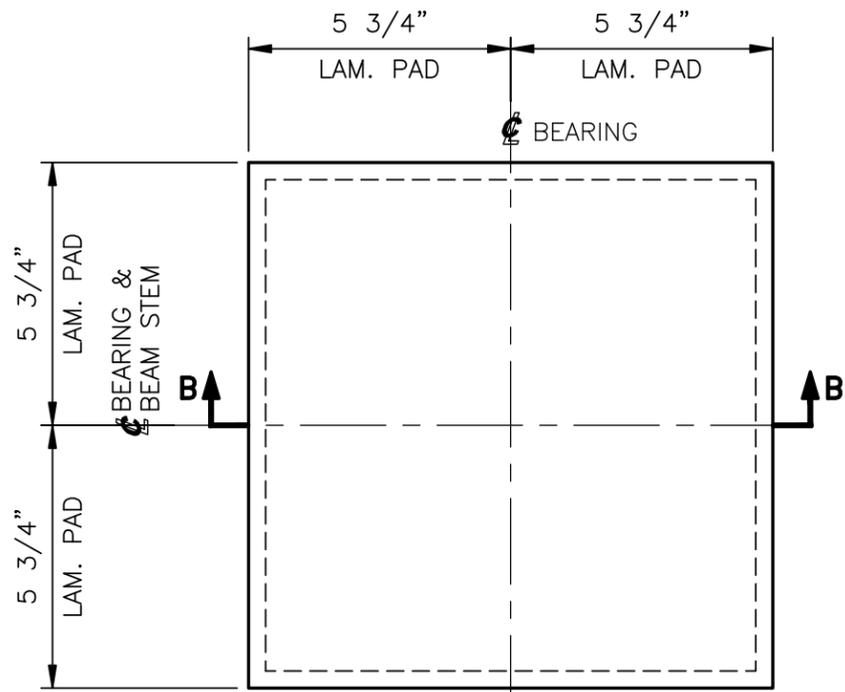
SCALE: NONE	DRAWN BY: CV	CHECKED BY: ELS
	DATE: 3/7/14	DATE: 3/11/14

SHEET 1 OF 3 **JOB NO.: 12341**

CUSTOMER:	DRAWING NUMBER	REV.
A.L. ST. ONGE CONTRACTOR INC.	12341-D1	1

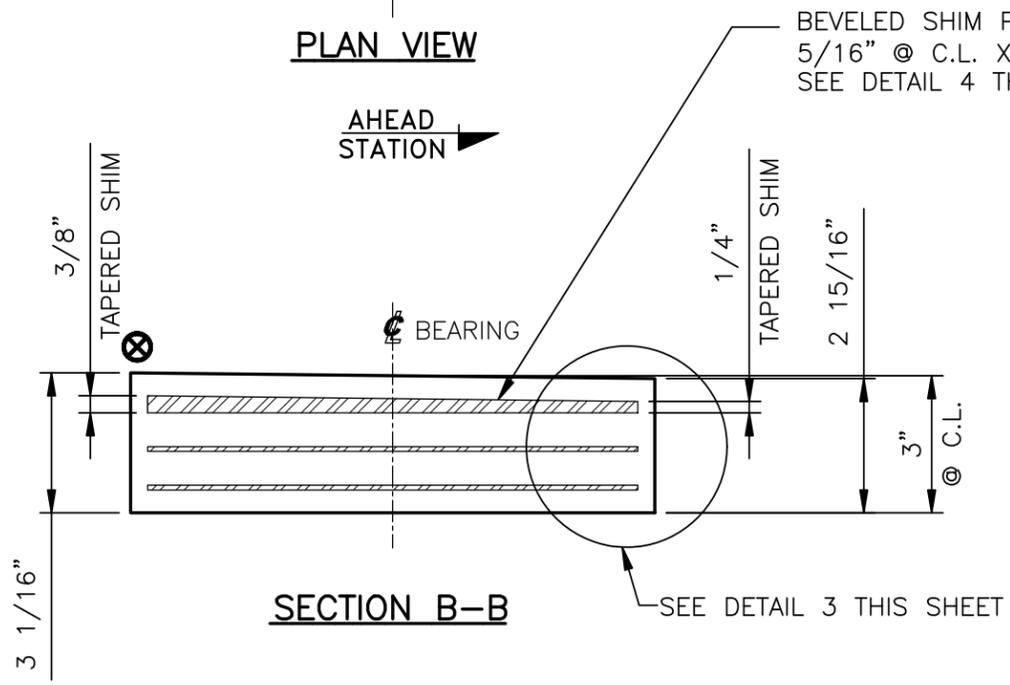
REVISION	DESCRIPTION	BY	DATE	CK'D	DATE
1	REVISED ELASTOMER TYPE FROM NEOPRENE TO NATURAL RUBBER PER RFI	JG	5/27/14	SL	5/27/14

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		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date:	5/29/2014	
By:		
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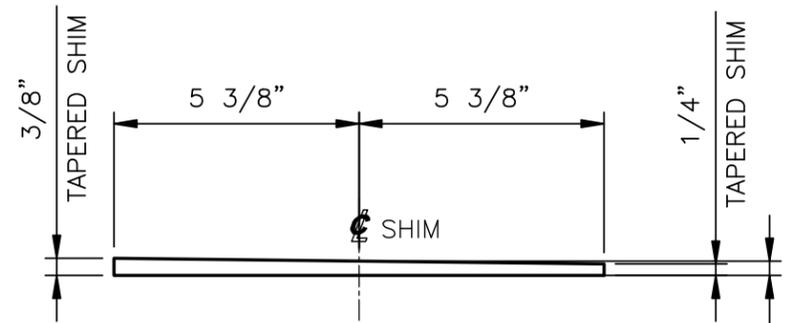
PLAN VIEW

Vermont Agency of Transportation
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 ON: **May 28, 2014**
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 05/29/2014



SECTION B-B

LAMINATED ELASTOMERIC BEARING PAD
LEP2
 (6) REQUIRED ABUTMENT 2

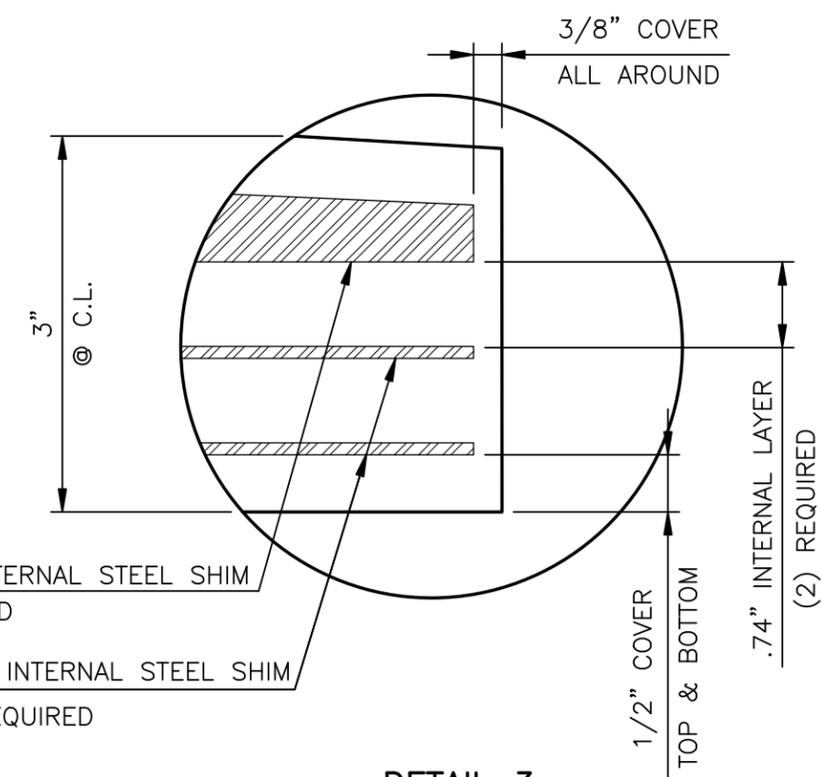


DETAIL 4

BEVELED INTERNAL SHIM PLATE
 5/16" @ C.L. X 10 3/4" X 10 3/4"
 AASHTO M270M/M270 GR. 36
 (6) REQUIRED AT ABUTMENT 2

1/4" - 5/8" TAPERED INTERNAL STEEL SHIM
 (1) REQUIRED
 12 GA. (.1046" NOM.) INTERNAL STEEL SHIM
 (2) REQUIRED

MAX. DESIGN LOAD
 DEAD LOAD = 35.8 kips
 LIVE LOAD = 38.8 kips



DETAIL 3
LEP2

BEVELED LAMINATED BEARING PAD
 3" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NATURAL RUBBER
 (6) REQUIRED AT ABUTMENT 2

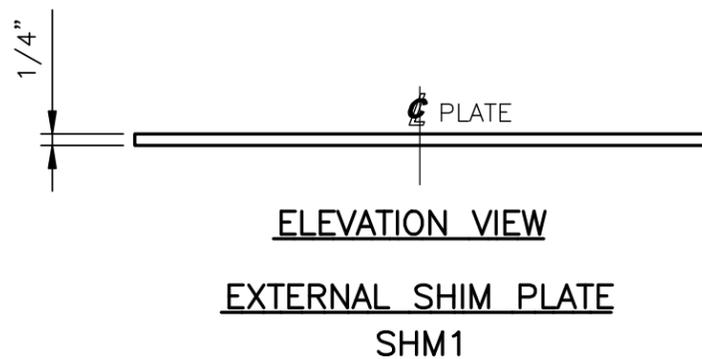
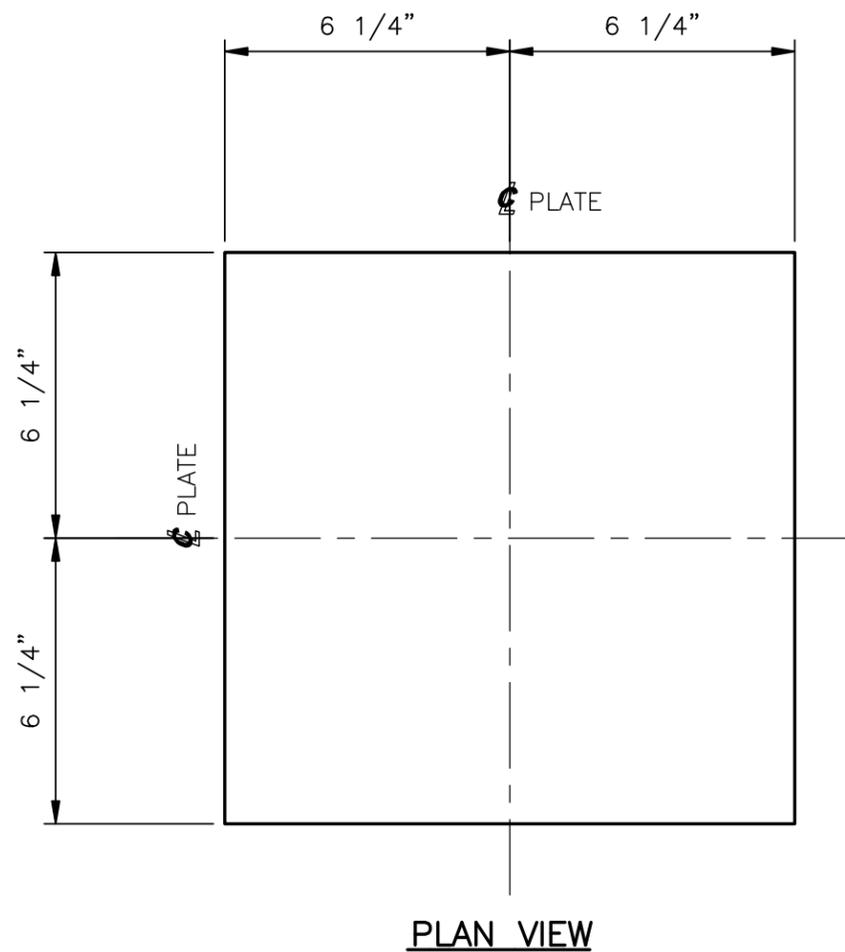
TEST2

BEVELED LAMINATED BEARING PAD
 3" @ C.L. X 11 1/2" X 11 1/2" LAMINATED PAD
 WITH A SHEAR MODULUS OF 152 PSI +/-15%
 60 DUROMETER GR. 4 NATURAL RUBBER
 (2) REQUIRED FOR TESTING

SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT AGENCY OF TRANSPORTATION TOWN OF ENOSBURG BOSTON POST ROAD T.H. 2 CLASS 2, BRIDGE NO: 48		
STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A
PROJ. NO.: BRO 1448 (40)		
DYNAMIC RUBBER: LAMINATED BEARING PADS		
		1501 ROCKY RIDGE ROAD P.O. BOX 2159 ATHENS, TEXAS 75751
SCALE: NONE	DRAWN BY: CV DATE: 3/7/14	CHECKED BY: ELS DATE: 3/11/14
SHEET 2 OF 3		JOB NO.: 12341
REV.	DESCRIPTION	BY DATE CK'D DATE
CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.		DRAWING NUMBER REV. 12341-D2 1

REVISOR	DESCRIPTION	BY	DATE	CK'D	DATE
△	REVISED ELASTOMER FROM NEOPRENE TO NATURAL RUBBER PER RFI	JG	5/27/14	SL	5/27/14



1/4" X 12 1/2" X 12 1/2" SHIM PLATE
 AASHTO M270M/M270 GRADE 36 (GALVANIZED)
 (12) REQUIRED FOR STRUCTURE

Vermont Agency of Transportation

RECEIVED

ON: **May 28, 2014**

and Checked for

CONFORMANCE

BY: Rob Young DATE: 05/29/2014

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APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 5/29/2014		
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SEE SHEET GN1 FOR SHOP NOTES

STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 TOWN OF ENOSBURG
 BOSTON POST ROAD T.H. 2
 CLASS 2, BRIDGE NO: 48

STATE	COUNTY	CONTROL NO.
VT	FRANKLIN	N/A

PROJ. NO.: BRO 1448 (40)

**DYNAMIC RUBBER:
 LAMINATED BEARING PADS**

1501 ROCKY RIDGE ROAD
 P.O. BOX 2159
 ATHENS, TEXAS 75751

SCALE: NONE	DRAWN BY: CV	CHECKED BY: ELS
	DATE: 3/7/14	DATE: 3/11/14

SHEET 3 OF 3 **JOB NO.: 12341**

REV.	DESCRIPTION	BY	DATE	CK'D	DATE	CUSTOMER: A.L. ST. ONGE CONTRACTOR INC.	DRAWING NUMBER 12341-D3	REV. 0
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