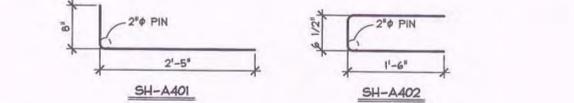
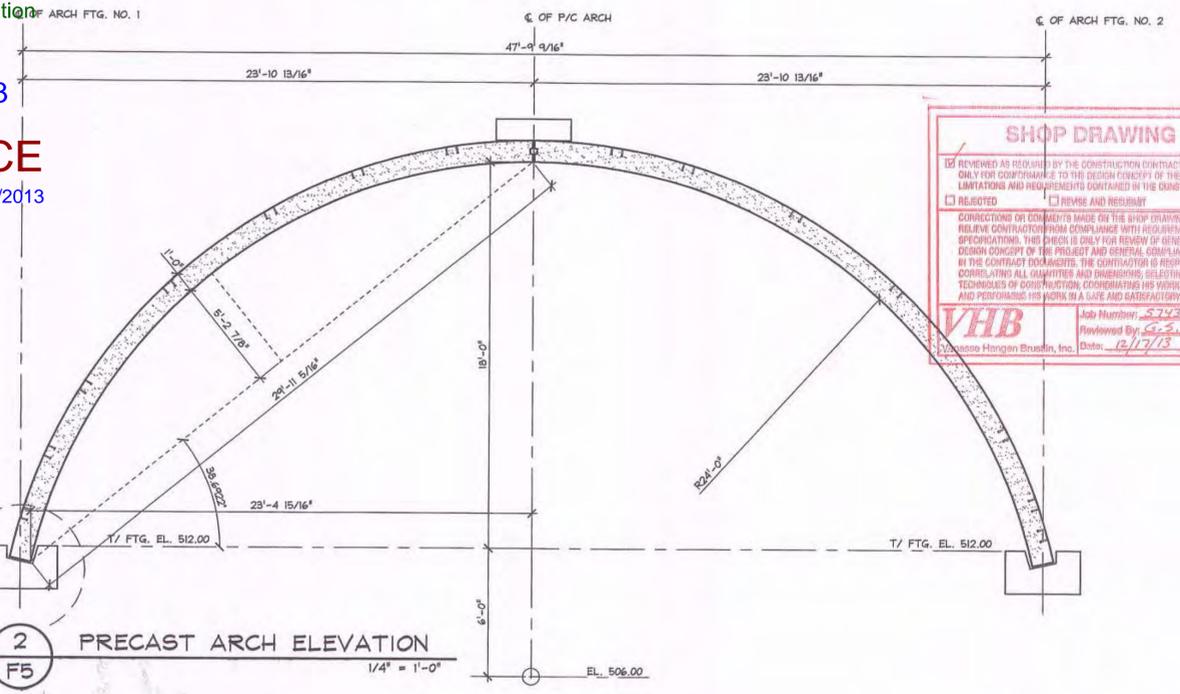


**STRAIGHT & BENT BAR LIST / ARCH PANELS**

ITEM	MARK	DESCRIPTION	QTY.
1		#4 x 32'-2" (BLACK)	144
2		#4 x 33'-2" (BLACK)	144
3		#4 x 5'-5" (BLACK)	552
4			
5	SH-A401	#4 BENT BAR (BLACK)	56
6	SH-A402	#4 BENT BAR (BLACK)	72
7			



Vermont Agency of Transportation  
**RECEIVED**  
 ON: December 16, 2013  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 12/18/2013



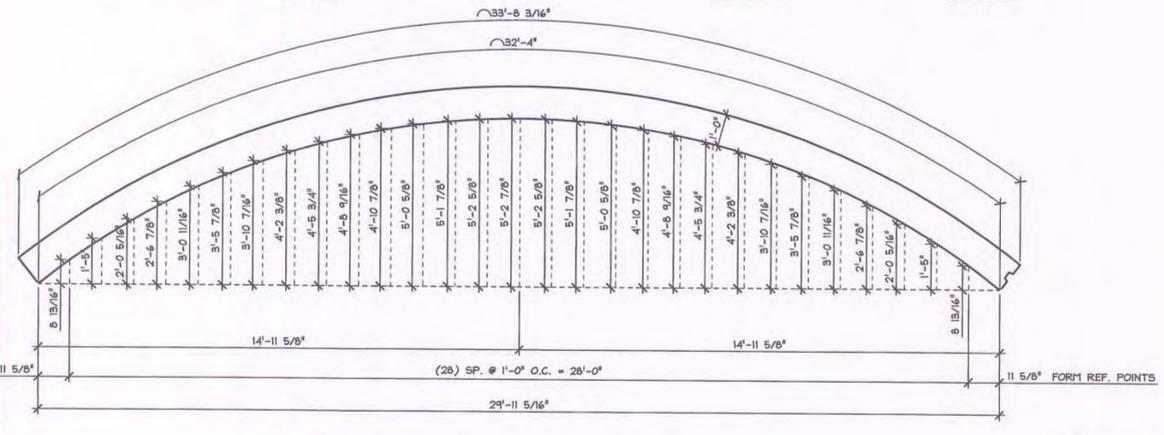
**SHOP DRAWING REVIEW**

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED  REVISE AND RESUBMIT  FURNISH AS CORRECTED

CONTRACTOR OR CONSULTANT'S MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CONTROLLING ALL QUALITIES AND ENGINEERING, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

**VHB**  
 Verrill-Hanigan Brannen, Inc.  
 Job Number: 57438-00  
 Reviewed By: G. S. Goodrich  
 Date: 12/17/13



APPROVAL STAMP:  
 STATE OF VERMONT  
 ROY L. ERIKSSON  
 No. 75908  
 Structural  
 LICENSED PROFESSIONAL ENGINEER  
 T. Buck Construction  
 12.16.13

**APPROVAL STAMP:**

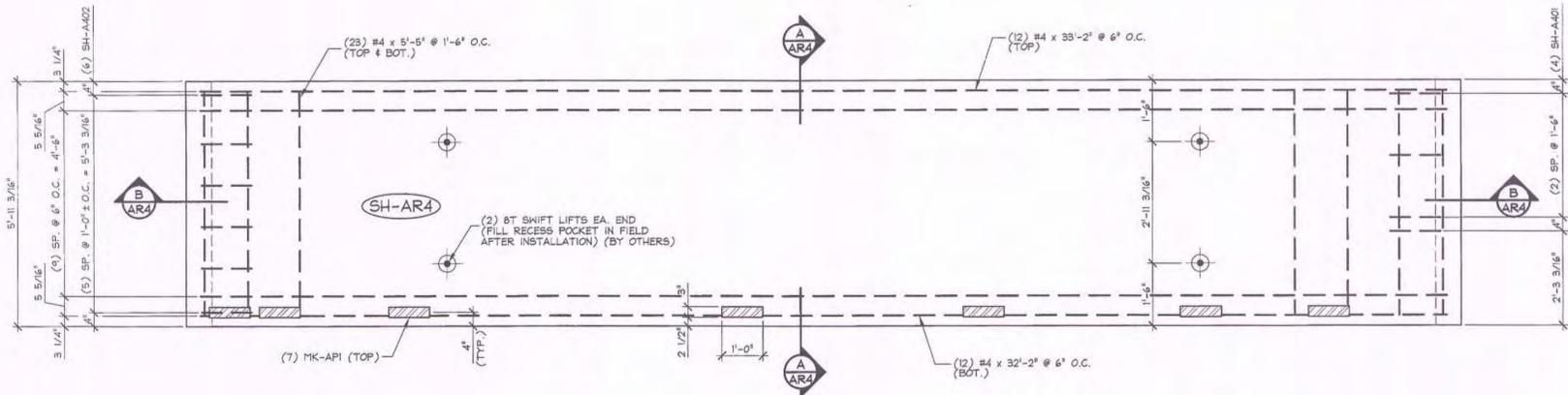
<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2464 OISE SR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	<b>T. BUCK CONSTRUCTION</b> CONTRACTOR AUBURN, MAINE
<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b> COUNTY OF ADDISON	DATE: OCT. 9, 2013 SCALE: NOTED
<b>TOWN OF MIDDLEBURY</b> ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: PROJECT NO.: RS 0174(B)	CHKD: DFTM: T.D. JOB NO:
<b>P/C ARCH LAYOUT &amp; DETAILS</b>	DWG. NO: <b>F5</b>

SUBMITTED  
 DEC 16 2013  
 J. P. CARRARA & SONS, INC.  
 MIDDLEBURY, VT 05753

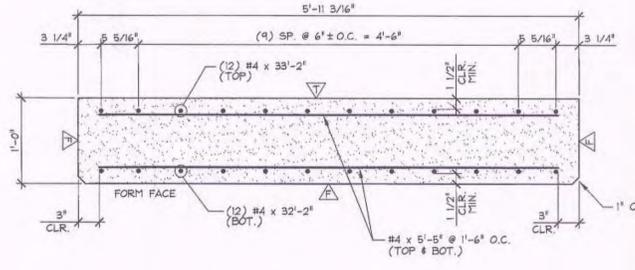




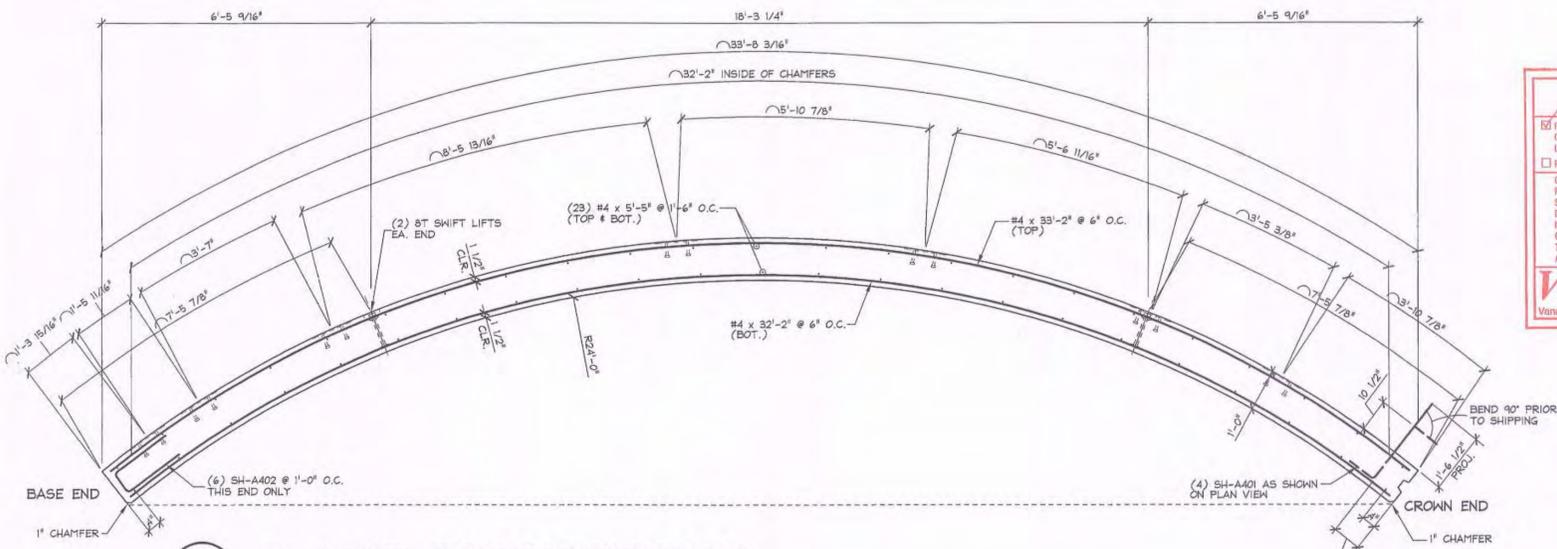




1 ARCH PANEL PLAN IN FORM W/ REINF.  
AR4  
1/2" = 1'-0"



A ARCH PANEL REINFORCEMENT SECTION  
AR4  
1/2" = 1'-0"



B ARCH PANEL REINFORCEMENT SECTION  
AR4  
1/2" = 1'-0"

**SHOP DRAWING REVIEW**

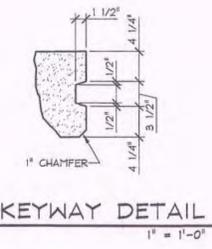
REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED  REVISE AND RESUBMIT  FORWASH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

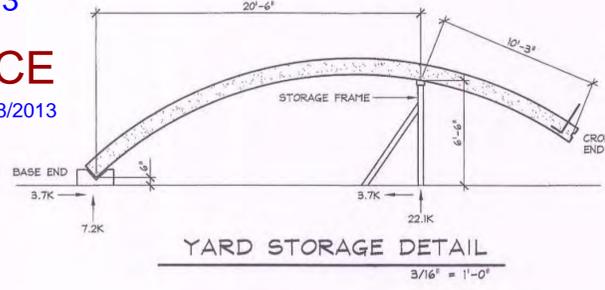
**VHB**  
Vanasse Hangen Brustlin, Inc.

Job Number: 52438-00  
Reviewed By: G.S. Goodrich  
Date: 12/17/13

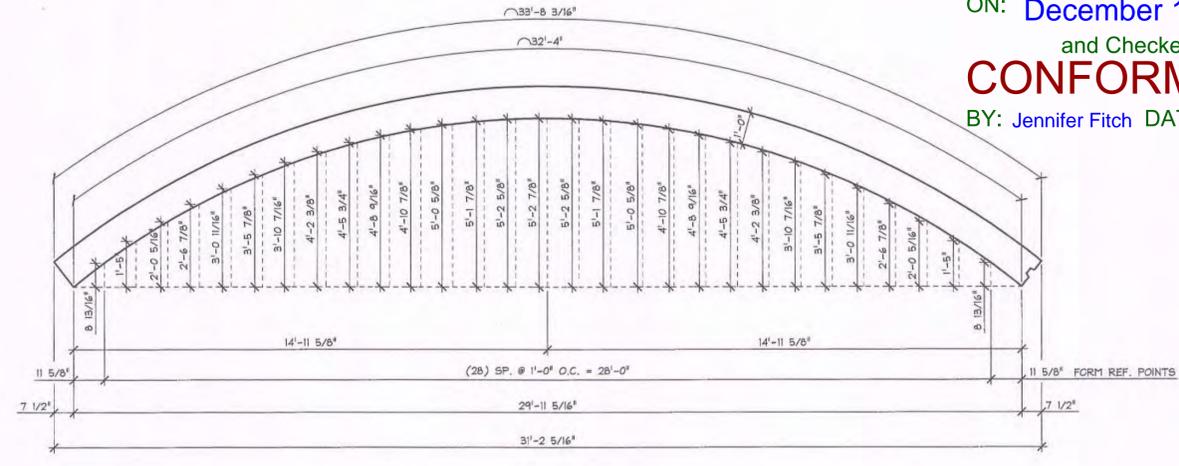


KEYWAY DETAIL  
1" = 1'-0"

- HANDLING NOTES:**
1. ARCH PANEL SHALL BE HANDLED USING (4) 8T x 10" SL ANCHORS AT FIFTH POINTS.
  2. ARCH PANEL SHALL BE STRIPPED USING (4) 8T x 10" SL ANCHORS.
  3. FOR YARD STORAGE, ARCH PANEL SHALL BE LOWERED USING (4) 8T x 10" SL ANCHORS UNTIL PANEL CONTACTS THE STORAGE FRAME, PLACED 10'-3" FROM THE PANEL END AS SHOWN. THE BASE OF THE PANEL SHALL THEN BE LOWERED TO THE HARDWOOD SUPPORT.
  4. THE PANEL SHALL BE HOISTED FROM THE STORAGE POSITION IN THE REVERSE SEQUENCE SPECIFIED ABOVE.
  5. THE ARCH PANEL SHALL BE SHIPPED WITH A SUPPORT CONFIGURATION MATCHING THE "YARD STORAGE DETAIL" AND SHALL BE INSTALLED FOLLOWING THE ABOVE PROCEDURE, USING (4) 8T x 10" SL ANCHORS.



YARD STORAGE DETAIL  
3/16" = 1'-0"



ARCH PANEL ELEV. IN FORM  
3/8" = 1'-0"

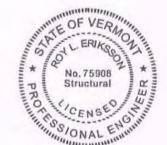
4000 PSI @ RELEASE  
6500 PSI @ 28 DAYS

MIX DESIGN: 46M1 NO DC1  
MIX DESIGN: 42M1 NO DC1

SUBMITTED  
DEC 16 2013  
J. P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

**NOTE:**  
EITHER OR BOTH OF THE ABOVE APPROVED MIX DESIGNS SHALL BE USED IN FABRICATION. RECORDS AND TESTING SHALL BE IN ACCORDANCE WITH J.P.C. QSM AND VT AOT SPECIFICATION.

MARK: SH-AR4	QTY.: 1	WT.: 14.93 T	VOL.: 7.37 cy
MATERIAL LIST / ARCH PANEL			
ITEM	MARK	DESCRIPTION	QTY.
1	#4 x 33'-2"	BLACK	12
2	#4 x 32'-2"	BLACK	12
3	#4 x 5'-5"	BLACK	46
4			
5	SH-A401	#4 BENT BAR BLACK	4
6	SH-A402	#4 BENT BAR BLACK	6
7	MK-API	E 3/8" x 3" x 1'-0" W/ (2) 5/8" x 3" HS (GALV.)	7
8			
9			
10		DAYTON 8T x 10" SWIFT LIFT ANCH. (BLACK) (WITH RECESS PLUG)	4
11			
12			
13			
14			
15			



J.P. Carrara  
12.16.13

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer  
264 OAK ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

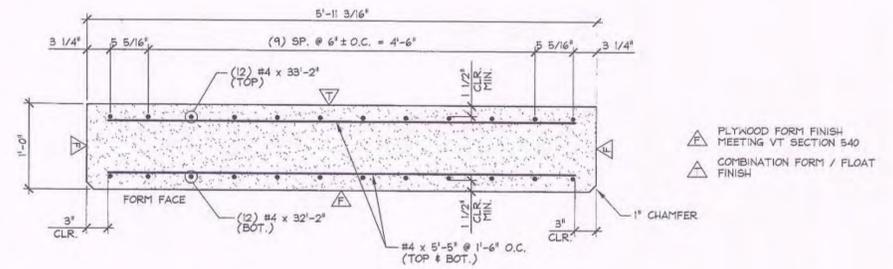
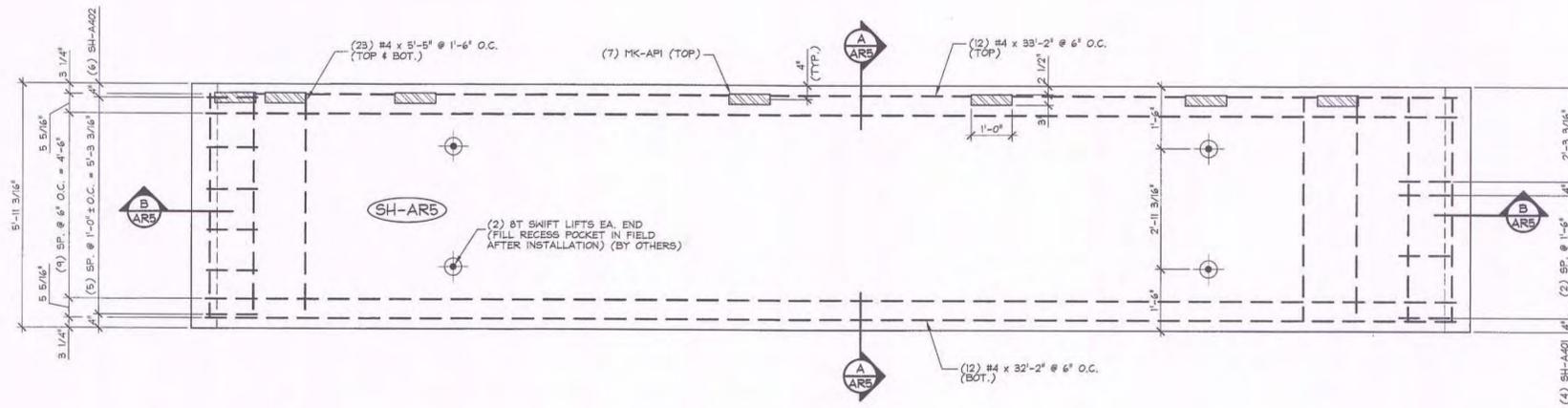
**T. BUCK CONSTRUCTION**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF ADDISON

TOWN OF MIDDLEBURY  
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE  
BRIDGE NO.: PROJECT NO.: RS 0174(B)

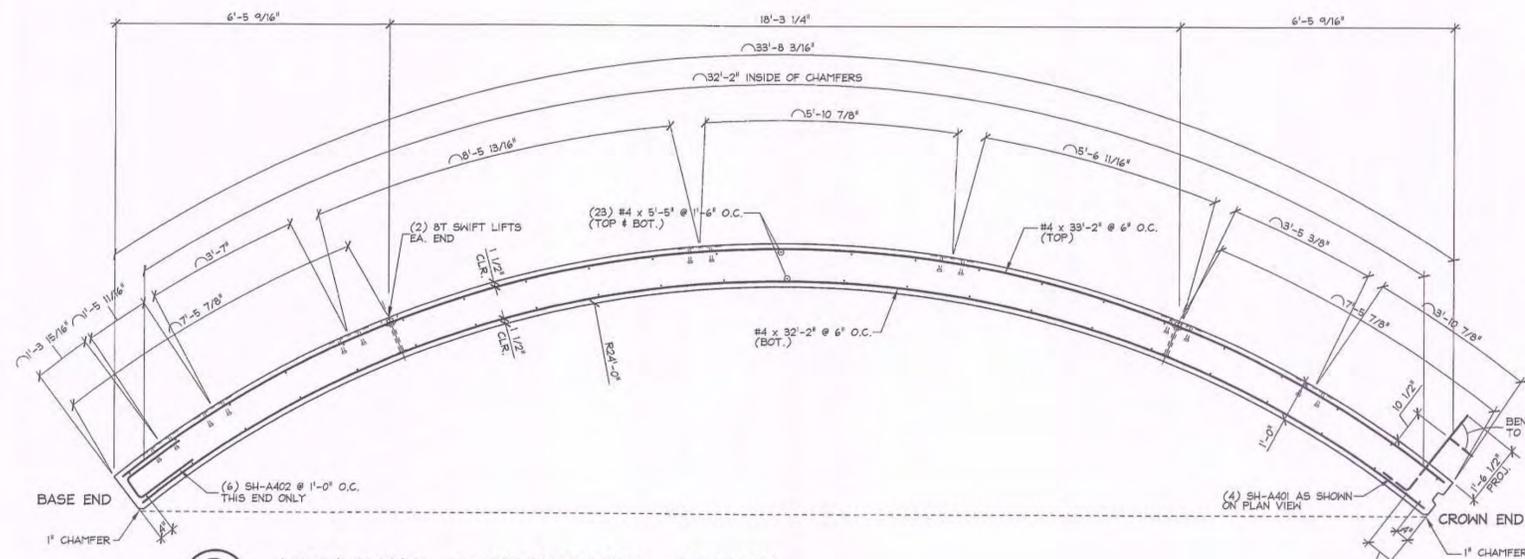
DATE: OCT. 9, 2013  
SCALE: NOTED  
CHKD: DFTM: T.D.  
JOB NO:  
DWG. NO: AR4

12-16-13 GENERAL REVISION T.D.



1 ARCH PANEL PLAN IN FORM W/ REINF.  
AR5  
1/2" = 1'-0"

A ARCH PANEL REINFORCEMENT SECTION  
AR5  
1/2" = 1'-0"



B ARCH PANEL REINFORCEMENT SECTION  
AR5  
1/2" = 1'-0"

**SHOP DRAWING REVIEW**

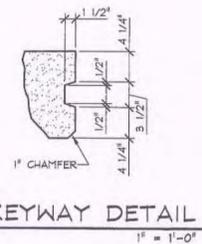
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REJECTED  REVISE AND RESUBMIT  FINISH AS CORRECTED

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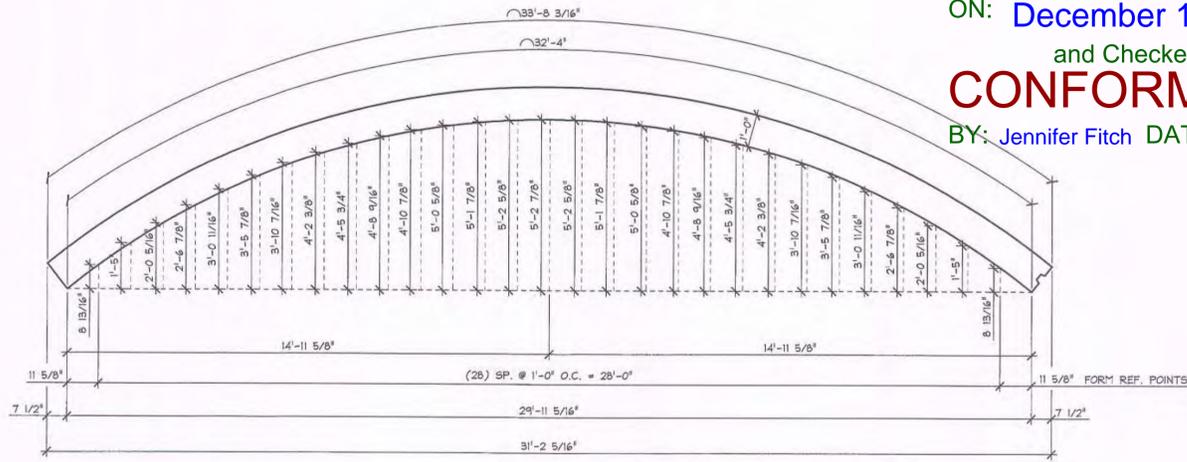
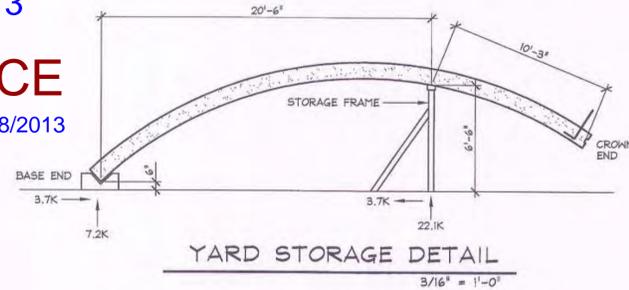
**VHB**  
Vermont Highway Builders, Inc.

Job Number: 57438-00  
Reviewed By: G.S. Goodwin  
Date: 12/17/13



**HANDLING NOTES:**

1. ARCH PANEL SHALL BE HANDLED USING (4) 8T x 10" SL ANCHORS AT FIFTH POINTS.
2. ARCH PANEL SHALL BE STRIPPED USING (4) 8T x 10" SL ANCHORS.
3. FOR YARD STORAGE, ARCH PANEL SHALL BE LOWERED USING (4) 8T x 10" SL ANCHORS UNTIL PANEL CONTACTS THE STORAGE FRAME. PLACED 10'-3" FROM THE PANEL END AS SHOWN. THE BASE OF THE PANEL SHALL THEN BE LOWERED TO THE HARDWOOD SUPPORT.
4. THE PANEL SHALL BE HOISTED FROM THE STORAGE POSITION IN THE REVERSE SEQUENCE SPECIFIED ABOVE.
5. THE ARCH PANEL SHALL BE SHIPPED WITH A SUPPORT CONFIGURATION MATCHING THE YARD STORAGE DETAIL AND SHALL BE INSTALLED FOLLOWING THE ABOVE PROCEDURE, USING (4) 8T x 10" SL ANCHORS.



ARCH PANEL ELEV. IN FORM  
3/8" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
ON: December 16, 2013  
and Checked for  
**CONFORMANCE**  
BY: Jennifer Fitch DATE: 12/18/2013

4000 PSI @ RELEASE  
6500 PSI @ 28 DAYS

MIX DESIGN: 445M NO DCI  
MIX DESIGN: 425M NO DCI

SUBMITTED  
DEC 16 2013  
J. P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

**NOTE:**  
EITHER OR BOTH OF THE ABOVE APPROVED MIX DESIGNS SHALL BE USED IN FABRICATION. RECORDS AND TESTING SHALL BE IN ACCORDANCE WITH J.P.C. 6291 AND VT AOT SPECIFICATION.

MARK	SH-AR5	QTY.:	WT.:	14.93 T	VOL.:	7.37 cy
<b>MATERIAL LIST / ARCH PANEL</b>						
ITEM	MARK	DESCRIPTION	QTY.			
1	#4 x 33'-2"	BLACK	12			
2	#4 x 32'-2"	BLACK	12			
3	#4 x 5'-5"	BLACK	46			
4						
5	SH-A401	#4 BENT BAR BLACK	4			
6	SH-A402	#4 BENT BAR BLACK	6			
7	MK-API	3/8" x 3' x 1'-0" W/ (2) 5/8" x 3" HS (GALV.)	7			
8						
9						
10		DAYTON 8T x 10" SWIFT LIFT ANCH. (BLACK) (WITH RECESS PLUG)	4			
11						
12						
13						
14						
15						



*Roy L. Erickson*  
12.16.13

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer  
2464 CARR ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

**T. BUCK CONSTRUCTION**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF ADDISON

TOWN OF MIDDLEBURY  
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE  
BRIDGE NO.: PROJECT NO.: RS 0174(8)

DATE: OCT. 9, 2013  
SCALE: NOTED  
CHKD: DFM: T.D.  
JOB NO:  
DWG. NO: AR5

PRECAST ARCH PANEL DETAILS

12-16-13 GENERAL REVISION T.D.