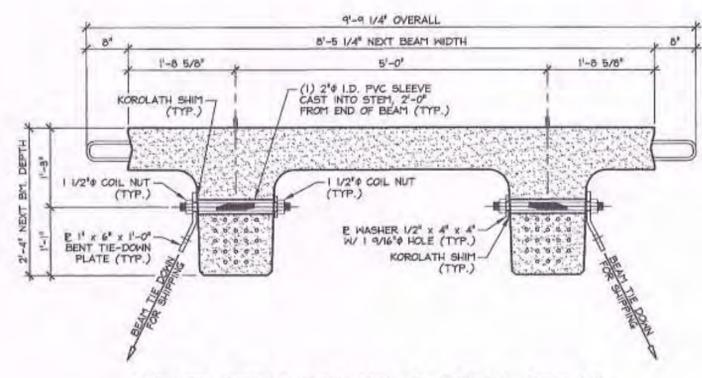
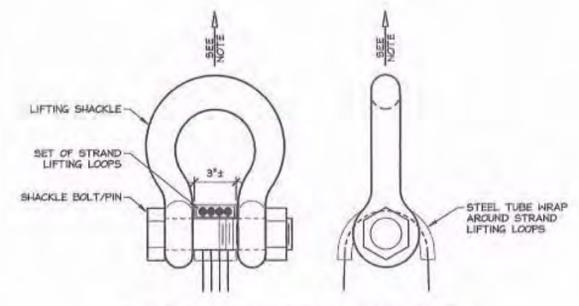


**I PRESTRESSED NEXT BEAM LAYOUT**  
 1/4" = 1'-0"

DESIGN LIVE LOAD: HL-9B



**NEXT BEAM 28D HOLD-DOWN DETAIL FOR SHIPPING**  
 3/4" = 1'-0"



NOTE: BEAMS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL FORCES ARE APPLIED TO EACH SET OF LIFTING LOOPS AT EACH END OF THE BEAM. SHACKLE BOLT/PIN SHALL BE PLACED UNDER LIFT LOOPS AS SHOWN. DESIGN AND CONFIGURATION OF RIGGING BY PURCHASER.

**LIFTING SHACKLE DETAILS**  
 N.T.S.

**NEXT BEAM GENERAL NOTES**

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 7,000 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED).
- PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60" x 270 KSI 7-WIRE LOW RELAXATION STRANDS.
- PRESTRESSING STRANDS SHALL EACH BE PULLED TO HAVE A NET TENSION OF 44.0 K AFTER ACCOUNTING FOR CHUCK SLIPPAGE. TENSION SHALL BE VERIFIED BY MEASURING STRAND ELONGATION. (SEE EXAMPLE ELONGATION CALCULATION AND TENSIONING PROCEDURE, THIS SHEET.)
- ENDS OF PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH END OF NEXT BEAM STEMS (UNLESS NOTED OTHERWISE) AND EPOXY PAINTED.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
- THE TOP OF BEAMS SHALL RECEIVE A TRANSVERSE RAKE FINISH ROUGHENED TO 1/4" AMPLITUDE (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL RECEIVE A ROUGHENED SURFACE.
- BEAMS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL FORCES ARE APPLIED TO EACH OF THE TWO LIFTING LOOPS AT EACH END OF THE BEAM. THE PINS OF THE SHACKLES SHALL BE PLACED THROUGH THE LIFTING LOOPS. SEE DETAIL, THIS SHEET. BEAMS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS WITHIN 2'-0" OF THE BEAM ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.  
 DESIGN MIX: J.P.C. BRIDGE MIX #430M
- QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
- CURING METHOD: AS SOON AS THE TOP OF BEAM IS FINISHED, A COVER OF INSULATED POLY. THE DESIRED CURING TEMPERATURE RANGE SHALL NOT DROP BELOW 70°F. THE TEMPERATURE SHALL BE RECORDED BY AUTOMATIC SENSOR INSTRUMENTS ON GRAPH CHARTS, SPACED NOT MORE THAN 100' APART AND WILL CONTINUE UNTIL RELEASE STRENGTH IS ACHIEVED. EACH CHART SHALL BE MARKED WITH THE CASTING DATED AND LOCATION OF THE RECORDER. IF NECESSARY TO MAINTAIN CASTING BED TEMPERATURE PRIOR TO CONCRETE PLACEMENT OR TO ACCELERATE EARLY AGE STRENGTH GAIN, EXTERNAL RADIANT HEAT MAY BE EMPLOYED VIA HOT WATER DUCTS BENEATH AND WITHIN THE PERIPHERY OF THE CASTING BED. MAXIMUM CURING TEMPERATURE SHALL NOT EXCEED PCI SPECIFIED LIMITS.
- OWNER SHALL PROVIDE APPROPRIATE WATERPROOFING TO GROUTED AND/OR EPOXIED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUTED AND/OR EPOXIED SHEAR KEYS.

**EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING**  
 (NOT TO BE USED FOR CONSTRUCTION)

SIZE & GRADE: 0.60" x 270 KSI  
 AREA: 0.217 IN<sup>2</sup>  
 TENSION: 44,000 LB. EACH STRAND  
 GRIP-TO-GRIP: 252'-0" = 252.00'  
 $E_s = 28,600,000$  PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

EXAMPLE:  
 $\Delta = \frac{PL}{AE} = \frac{(44,000 - 3,000) \times 252.00 \times 12}{0.217 \times 28,600,000} = 19.977'$

THEREFORE (TOLERANCES ± 5%):  
 $\Delta$  UPPER LIMIT =  $1.05 \times 19.977' = 20.98' = 21'$   
 $\Delta$  LOWER LIMIT =  $0.95 \times 19.977' = 18.98' = 19'$

EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE:  
 $\Delta P = \frac{0.5 \times 41,000}{19.977} = 1,026$  LBS.

TOTAL TENSIONING FORCE =  $44,000 + 1,026 = 45,026$  LBS.

**STRAND TENSIONING PROCEDURE:**

- PULL EACH STRAND INITIALLY TO 3,000\* LBS. AND MARK STRAND.
  - THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,026\* LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 19\* AND 21\*.
- \*NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.

**SHOP DRAWING REVIEW**

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REJECTED  REVISE AND RESUBMIT  FURNISH AS CORRECTED

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**VHB** Vermont Highway Builders, Inc.  
 Job Number: 57438.00  
 Reviewed By: B. Moore  
 Date: 2-14-14

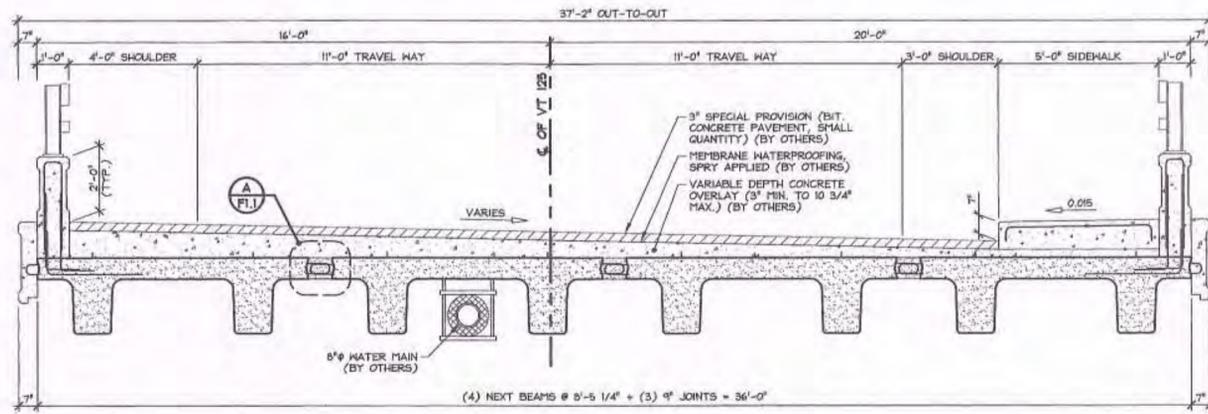
2-11-14 ADD GENERAL NOTES

Vermont Agency of Transportation

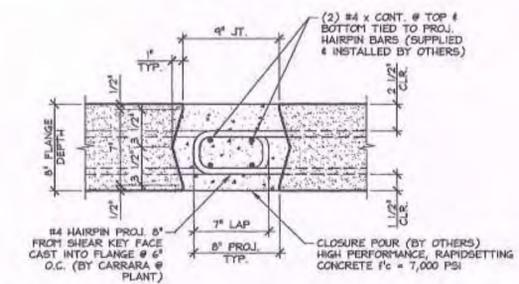
**RECEIVED**  
 ON: February 12, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 02/27/14

SUBMITTED  
 FEB 12 2014  
 J.P. CARRARA & SONS, INC.  
 MIDDLEBURY, VT 05753

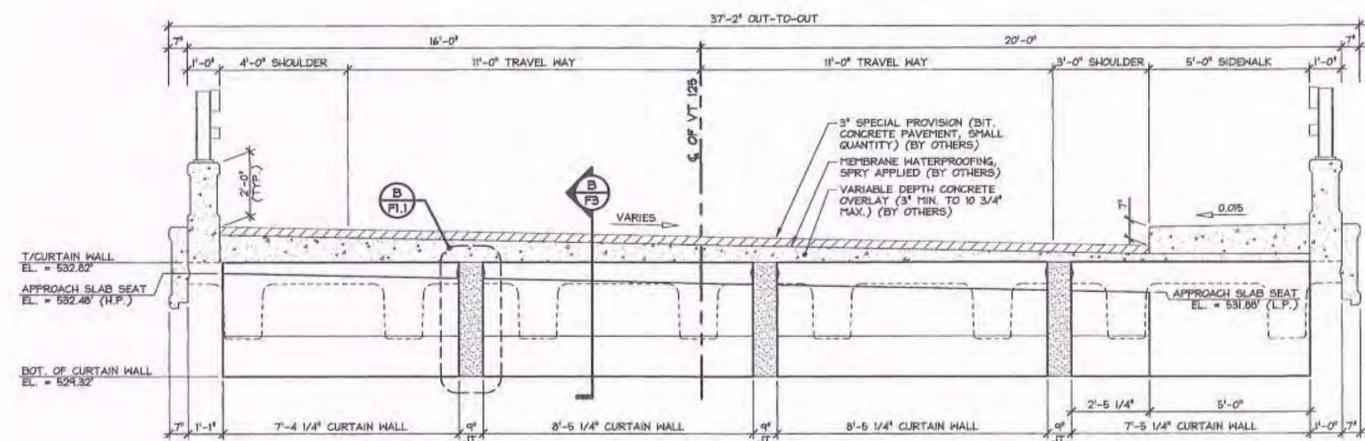
APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2064 OCE DR. MIDDLEBURY, VERMONT 05753 Phone: (802)380-6301 Fax: (802)380-8010	<b>T. BUCK CONSTRUCTION</b> CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON	DATE: OCT. 9, 2013 SCALE: NOTED
	TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO. 13 PROJECT NO.: RS 0174(B)	CHKD: DFTM: B.L. JOB NO: 2941-013
	<b>PRESTRESSED NEXT BEAM LAYOUT</b>	DWG. NO: <b>F1</b>



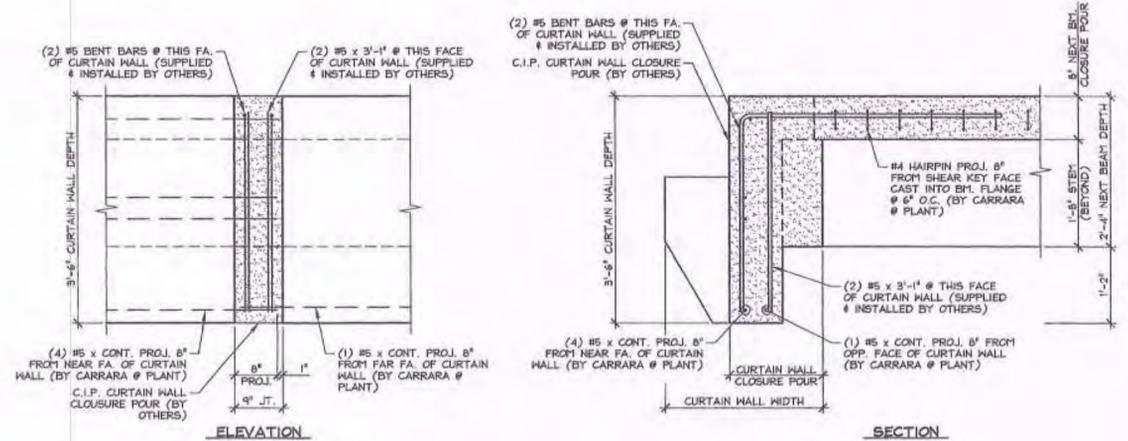
**1 TRANSVERSE SECTION**  
Fl. 1 3/8" = 1'-0"



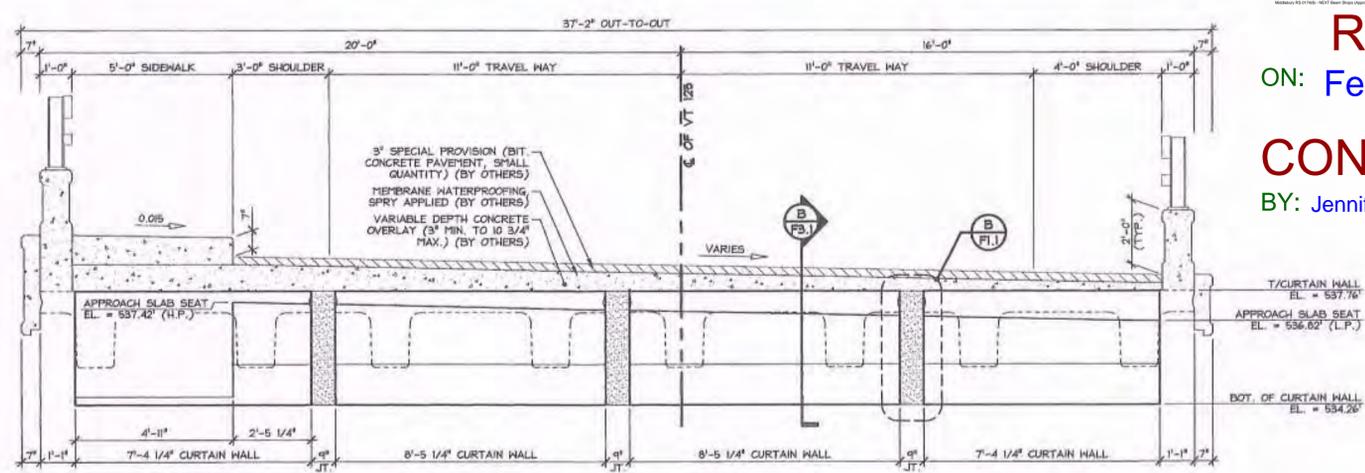
**A NEXT BEAM CLOSURE POUR DETAIL**  
Fl. 1 1/2" = 1'-0"



**2 WEST ELEVATION - ABUTMENT #1**  
Fl. 1 BEGIN BRIDGE STA. 139+06.75 3/8" = 1'-0"



**B CURTAIN WALL CLOSURE POUR DETAILS**  
Fl. 1 3/4" = 1'-0"



**3 EAST ELEVATION - ABUTMENT #2**  
Fl. 1 END BRIDGE STA. 139+72.75 3/8" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
ON: February 12, 2014  
and Checked for  
**CONFORMANCE**  
BY: Jennifer Fitch DATE: 02/27/14

**SHOP DRAWING REVIEW**

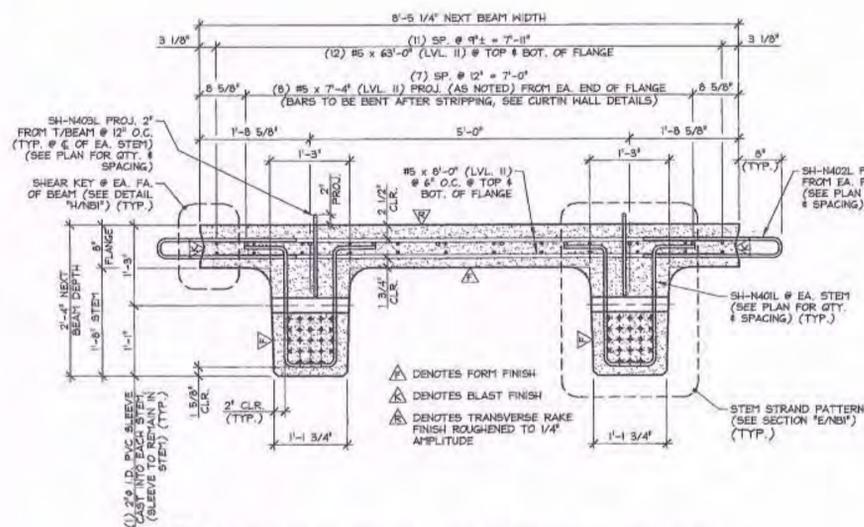
REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT NOT FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING 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**  
Vermont Highway Builders, Inc.

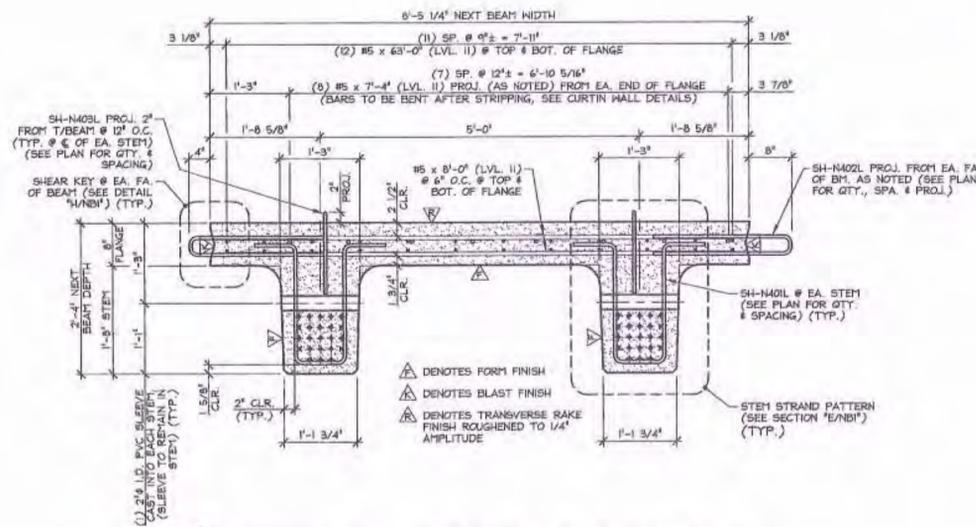
Job Number: 52438.00  
Reviewed By: B. Moore  
Date: 2-14-14

SUBMITTED  
FEB 12 2014  
J.P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

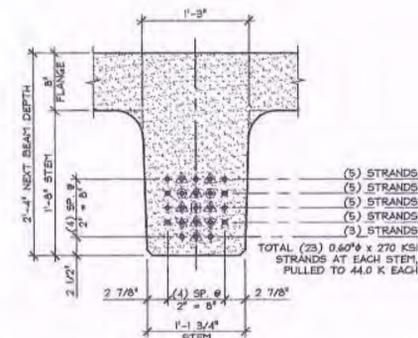
APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 244 GOR DR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	<b>T. BUCK CONSTRUCTION</b> CONTRACTOR AUBURN, MAINE
	<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b> COUNTY OF ADDISON	DATE: OCT. 9, 2013 SCALE: NOTED
	<b>TOWN OF MIDDLEBURY</b> ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: 13 PROJECT NO.: RS 0174(B)	CHKD: DFTM: B.L. JOB NO: 23411-013
	<b>PRESTRESSED NEXT BEAM SECTIONS &amp; ELEVATIONS</b>	DWG. NO: <b>F1.1</b>



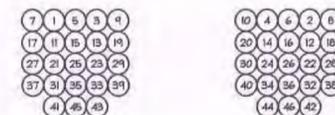
**A DIMENSIONAL & REINFORCING SECTION**  
 NBI - BEAMS "SH-NB2" & "SH-NB3" 3/4" = 1'-0"  
 - SEE INDIVIDUAL BEAM DETAILS FOR WATER MAIN SUPPORT INSERTS.



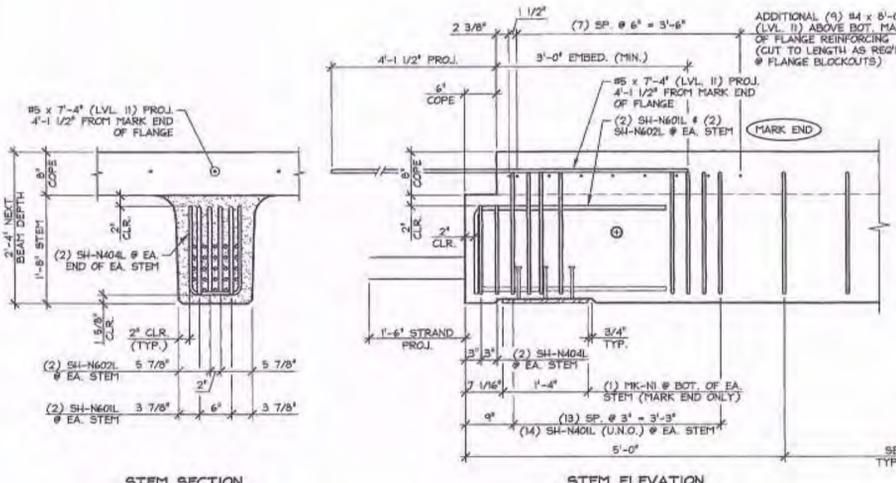
**B DIMENSIONAL & REINFORCING SECTION**  
 NBI - BEAMS "SH-NB1" & "SH-NB4" 3/4" = 1'-0"  
 - SEE INDIVIDUAL BEAM DETAILS FOR ADDITIONAL COMPOSITE REINFORCING PROJECTING FROM TOP OF BEAM.



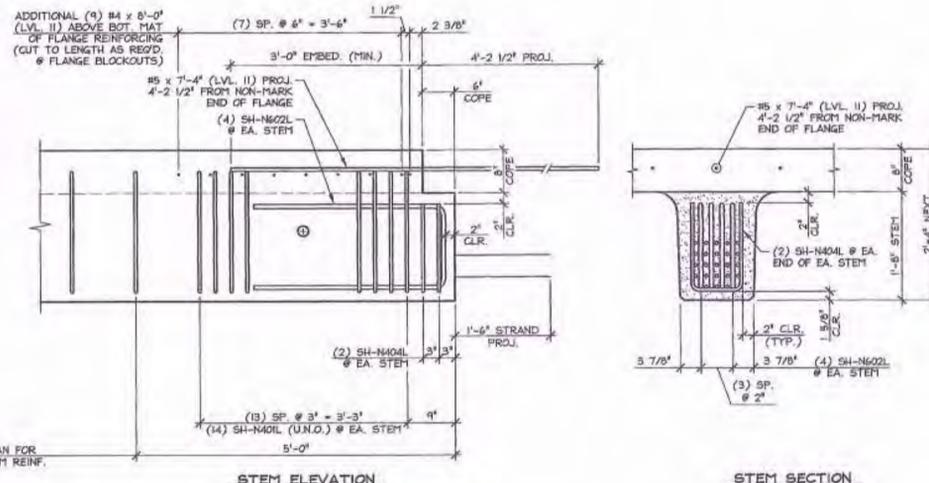
**E STEM STRAND PATTERN**  
 NBI 1" = 1'-0"



**F DETENSING SCHEDULE**  
 NBI N.T.S.



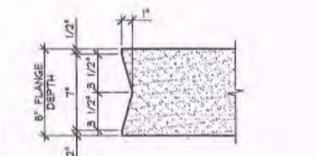
**C END BLOCK STEM REINFORCING DETAILS**  
 NBI MARK END 3/4" = 1'-0"  
 - TYPICAL FLANGE REINFORCING NOT SHOWN FOR CLARITY.  
 - SEE CURTAIN WALL DETAILS FOR PROJECTING BAR BENDING & PROJECTING STRAND BENDING ("A/NBI.1").



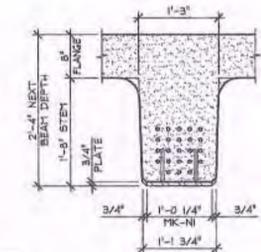
**D END BLOCK STEM REINFORCING DETAILS**  
 NBI NON-MARK END 3/4" = 1'-0"  
 - TYPICAL FLANGE REINFORCING NOT SHOWN FOR CLARITY.  
 - SEE CURTAIN WALL DETAILS FOR PROJECTING BAR BENDING & PROJECTING STRAND BENDING ("A/NBI.1").



**G HOMASOTE DETAIL**  
 NBI 3" = 1'-0"



**H SHEAR KEY DETAIL**  
 NBI 1 1/2" = 1'-0"



**J BEARING PLATE DETAIL**  
 NBI 3/4" = 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.

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**VHB**  
 Vanessa Hagen Brustin, Inc.

Job Number: 57428.00  
 Reviewed By: R. Massa  
 Date: 2-14-14

Vermont Agency of Transportation

**RECEIVED**

ON: February 12, 2014

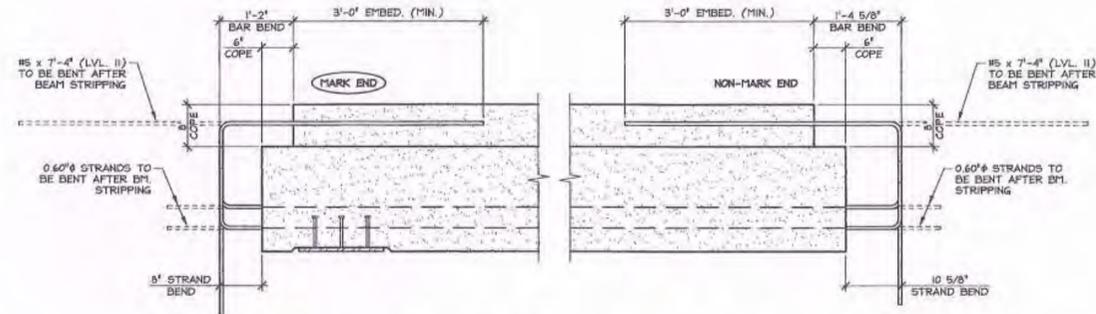
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**CONFORMANCE**

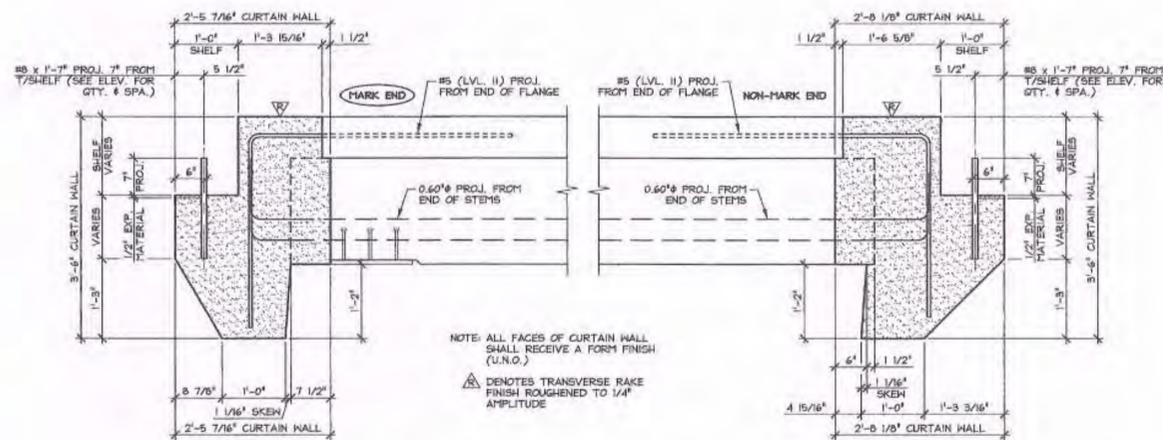
BY: Jennifer Fitch DATE: 02/27/14

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 244 GEE ST., MIDDLEBURY, VERMONT 05751 Phone: (802)368-6381 Fax: (802)368-9010	T. BUCK CONSTRUCTION CONTRACTOR AUBURN, MAINE
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON	DATE: OCT. 9, 2013	SCALE: NOTED
TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: 15 PROJECT NO.: RB 0174(8)	CHKD: DFTM: B.L.	JOB NO: 23411-013
PRESTRESSED NEXT BEAM DETAILS	DWG. NO: NBI	

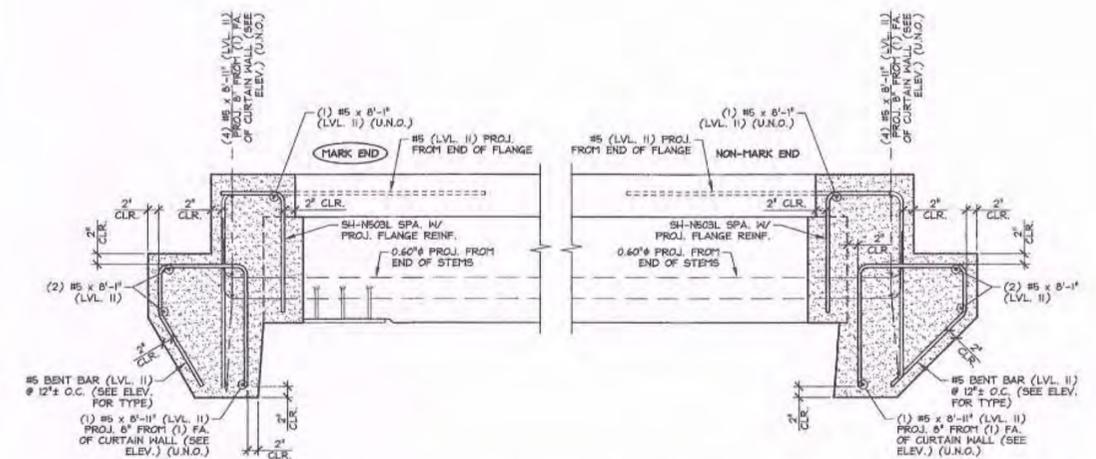
SUBMITTED  
 FEB 12 2014  
 J.P. CARRARA & SONS, INC.  
 MIDDLEBURY, VT 05751



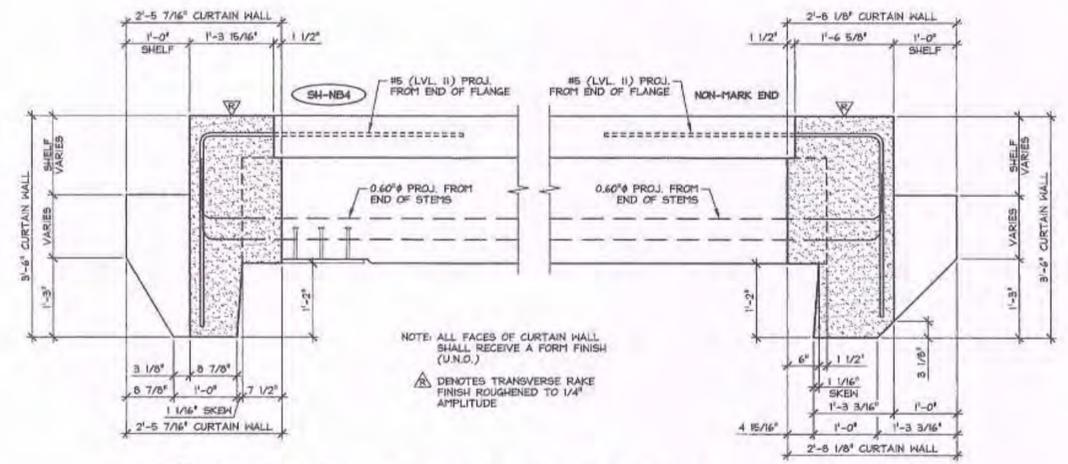
**A PROJECTING STRAND & PROJECTING BAR BEND DETAIL**  
NBI.1 3/4" = 1'-0"



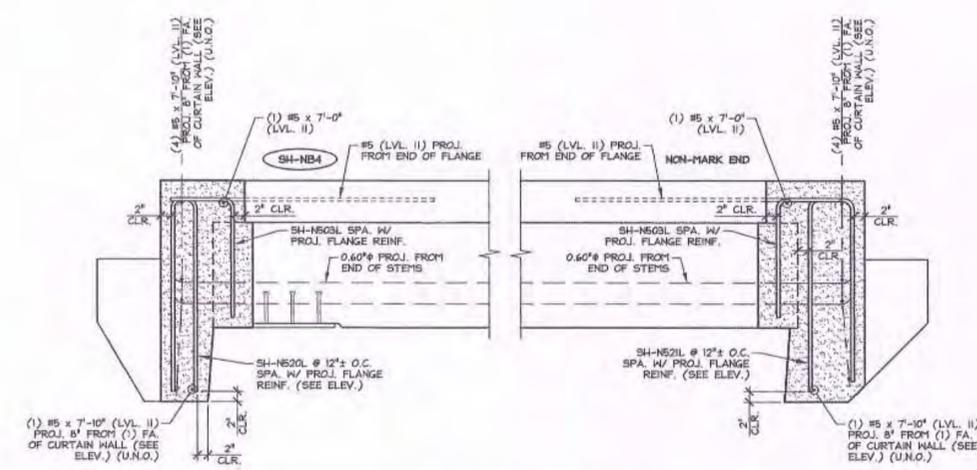
**B CURTAIN WALL DIMENSIONAL SECTIONS**  
NBI.1 3/4" = 1'-0"



**C CURTAIN WALL REINFORCING SECTIONS**  
NBI.1 SEE CURTAIN WALL ELEVATIONS FOR LONGITUDINAL BAR LENGTH CHANGES 3/4" = 1'-0"



**D CURTAIN WALL DIMENSIONAL SECTIONS**  
NBI.1 3/4" = 1'-0"



**E CURTAIN WALL REINFORCING SECTIONS**  
NBI.1 SEE CURTAIN WALL ELEVATIONS FOR LONGITUDINAL BAR LENGTH CHANGES 3/4" = 1'-0"

Vermont Agency of Transportation

**RECEIVED**

ON: February 12, 2014

and Checked for

**CONFORMANCE**

BY: Jennifer Fitch DATE: 02/27/14

SUBMITTED  
FEB 12 2014  
J.P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

**SHOP DRAWING REVIEW**

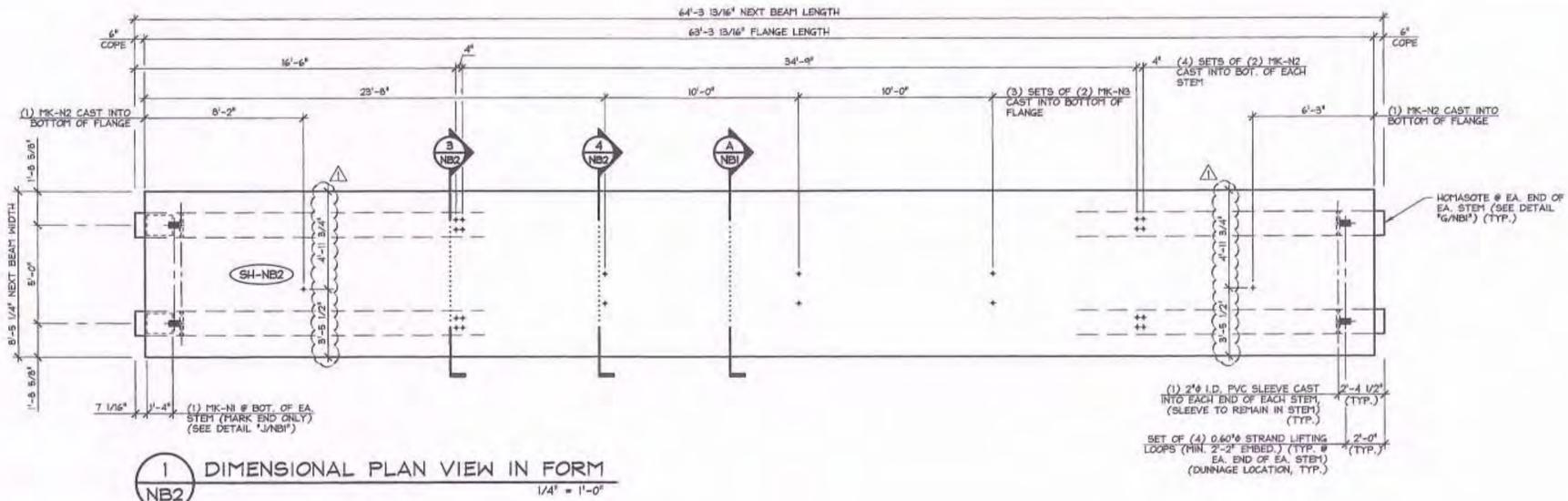
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REFLECTED  REVISE AND RESUBMIT  FINISH AS CORRECTED

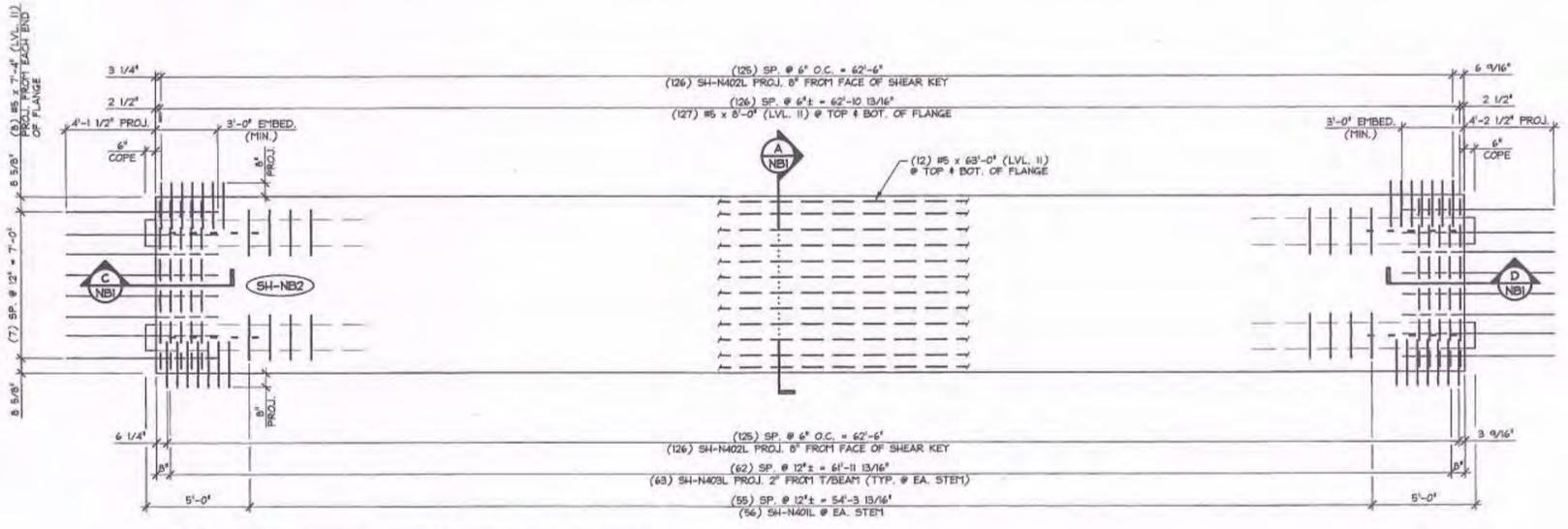
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**VHB** Vermont-Hangson-Bonetta, Inc.  
Job Number: 5738.00  
Reviewed By: B. Mason  
Date: 2-14-14

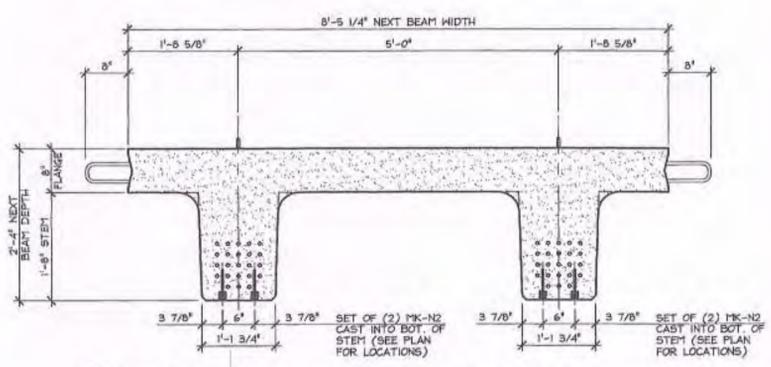
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 204 CDE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	T. BUCK CONSTRUCTION CONTRACTOR AUBURN, MAINE
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON		DATE: OCT. 9, 2013
TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: 13 PROJECT NO.: RS 0174(B)		SCALE: NOTED
PRECAST CURTAIN WALL DETAILS		CHKD: DFTM: B.L. JOB NO: 23411-013
		DWG. NO: NBI.1



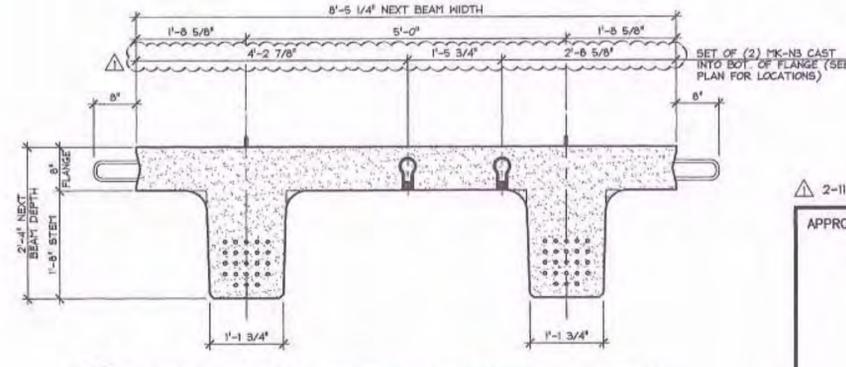
1 DIMENSIONAL PLAN VIEW IN FORM  
NB2  
1/4" = 1'-0"



2 REINFORCING PLAN VIEW IN FORM  
NB2  
SEE CURTAIN WALL DETAILS FOR PROJECTING BAR BENDING & PROJECTING STRAND BENDING  
1/4" = 1'-0"



3 WATER MAIN INSERT SUPPORT SECTION  
NB2  
3/4" = 1'-0"



4 WATER MAIN INSERT SUPPORT SECTION  
NB2  
3/4" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
ON: February 12, 2014  
and Checked for  
**CONFORMANCE**  
BY: Jennifer Fitch DATE: 02/27/14

**SHOP DRAWING REVIEW**

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**VHB**  
Vermont Hazardous Waste, Inc.

Job Number: 57438.00  
Reviewed By: G. Mose  
Date: 2-14-14

SUBMITTED  
FEB 12 2014  
J.P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

MARK: SH-NB2 QTY.: 1 WT.: 46.07 T VOL: 22.75 cy

**MATERIAL LIST / NEXT BEAM**

ITEM	MARK	DESCRIPTION	QTY.
1	SH-N401L	#4 BENT BAR (LEVEL II, DUAL COATED)	165
2	SH-N402L	#4 BENT BAR (LEVEL II, DUAL COATED)	252
3	SH-N403L	#4 HAIRPIN (LEVEL II, DUAL COATED)	126
4	SH-N404L	#4 BENT BAR (LEVEL II, DUAL COATED)	5
5		#4 x 8'-0" (LVL. II, DUAL COATED)	16
6			
7		#5 x 7'-4" (LVL. II, DUAL COATED)	16
8		#5 x 8'-0" (LVL. II, DUAL COATED)	254
9		#5 x 63'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	24
10			
11	SH-N601L	#6 BENT BAR (LEVEL II, DUAL COATED)	4
12	SH-N602L	#6 BENT BAR (LEVEL II, DUAL COATED)	12
13			
14			
15			
16	MK-N1	BRG. E 3/4" x 1'-0 1/4" x 1'-4" W/ ANCHORS (GALV.)	2
17	MK-N2	DAYTON 7/8" F-42 LOOP FERRULE INSERT (GALV.)	16
18	MK-N3	DAYTON 1" F-42 LOOP FERRULE INSERT (S.S.)	6
19		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4
20			

2-11-14 REVISE THREADED INSERT LOCATIONS

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer  
244 CURE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-8010

**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.: 13 PROJECT NO.: RS 0174(B)

DATE: OCT. 9, 2013  
SCALE: NOTED  
CHKD: DFTM: B.L.  
JOB NO: 23411-013  
DWG. NO: NB2

PRESTRESSED NEXT BEAM PLANS

Vermont Agency of Transportation

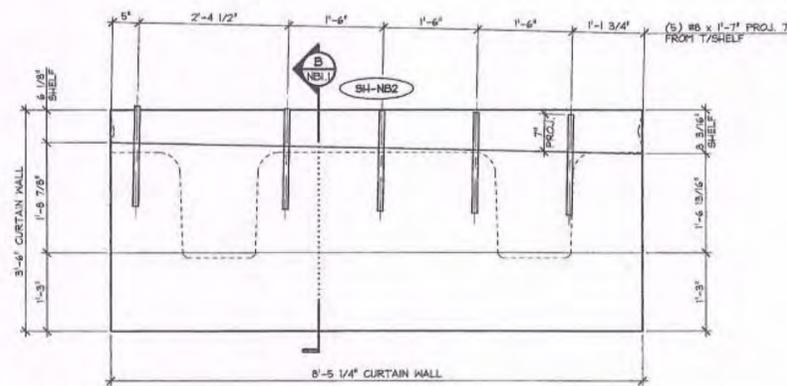
**RECEIVED**

ON: February 12, 2014

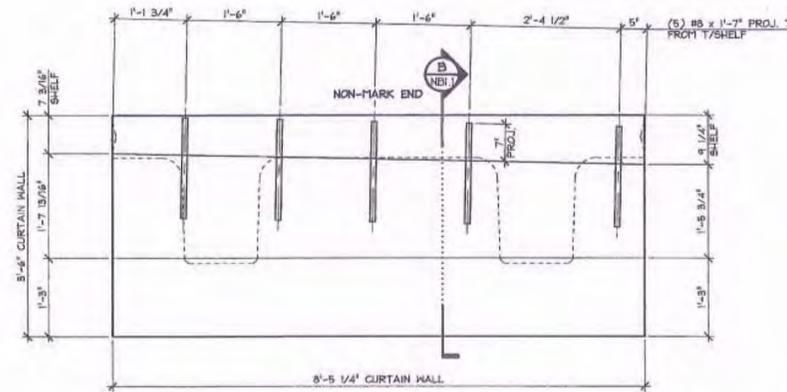
and Checked for

**CONFORMANCE**

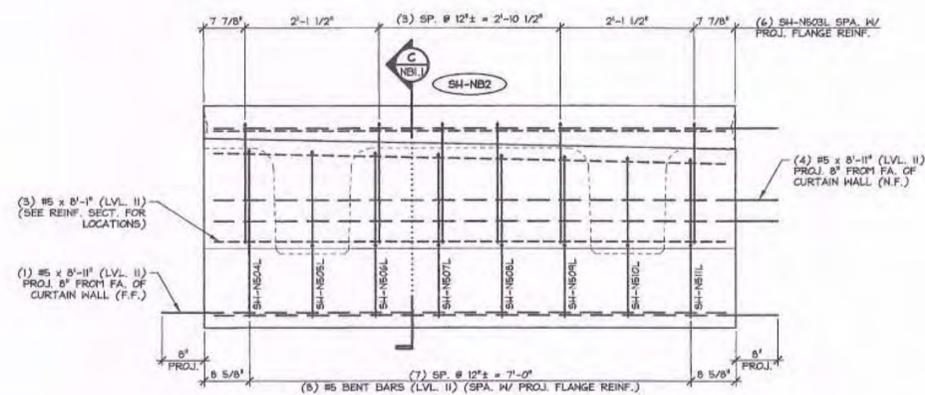
BY: Jennifer Fitch DATE: 02/27/14



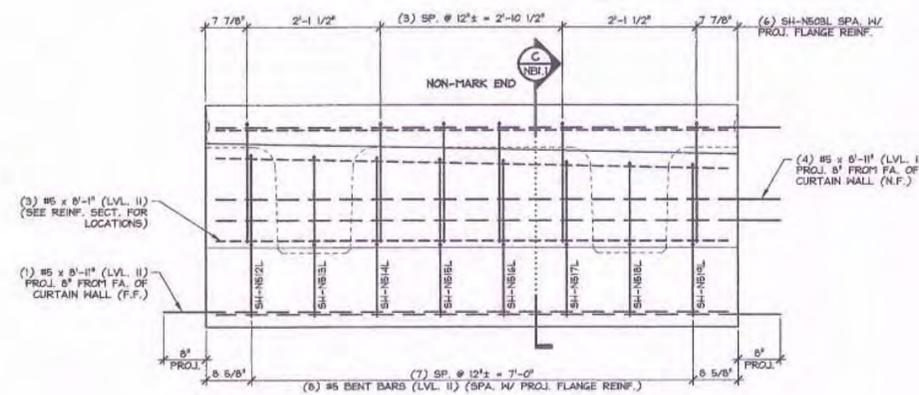
**1 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB2.1 VOL: 1.99 cy WT: 4.03 T 3/4" = 1'-0"



**3 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB2.1 VOL: 2.18 cy WT: 4.42 T 3/4" = 1'-0"



**2 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB2.1 3/4" = 1'-0"



**4 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB2.1 3/4" = 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.

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**VHB** Vanasse Hangen Brustlin, Inc.  
Job Number: 57438.00  
Reviewed By: R. Mason  
Date: 2-14-14

46.07 T = NEXT BEAM  
4.03 T = CURTAIN WALL (MARK END)  
4.42 T = CURTAIN WALL (NON-MARK END)  
54.5 T = TOTAL BEAM WT.

SUBMITTED  
FEB 12 2014  
J.P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

MARK: SH-NB2 QTY.: 1

**MATERIAL LIST / CURTAIN WALL**

ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	SH-N503L	#5 BENT BAR (LEVEL II, DUAL COATED)	6	6
2	SH-N504L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
3	SH-N505L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
4	SH-N506L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
5	SH-N507L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
6	SH-N508L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
7	SH-N509L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
8	SH-N510L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
9	SH-N511L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
10	SH-N512L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
11	SH-N513L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
12	SH-N514L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
13	SH-N515L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
14	SH-N516L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
15	SH-N517L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
16	SH-N518L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
17	SH-N519L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
18		#5 x 8'-1" (LVL. II, DUAL COATED)	3	3
19		#5 x 8'-1" (LVL. II, DUAL COATED)	5	5
20				
21		#5 x 1'-7" (LEVEL II, DUAL COATED)	5	5
22				
23				
24				
25				

APPROVAL STAMP:

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

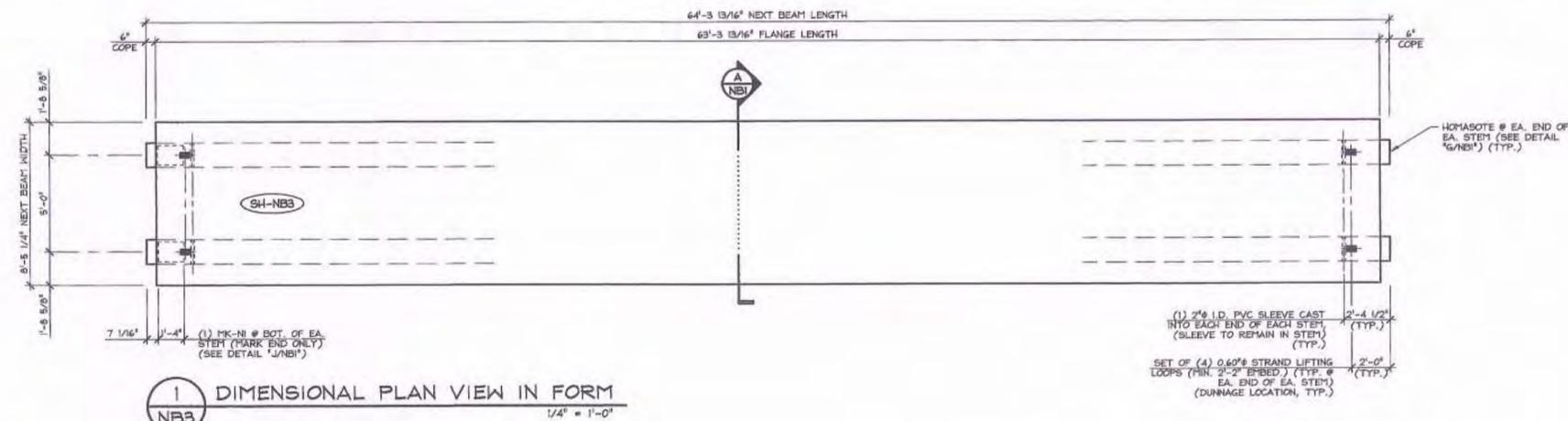
**T. BUCK CONSTRUCTION**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF ADDISON

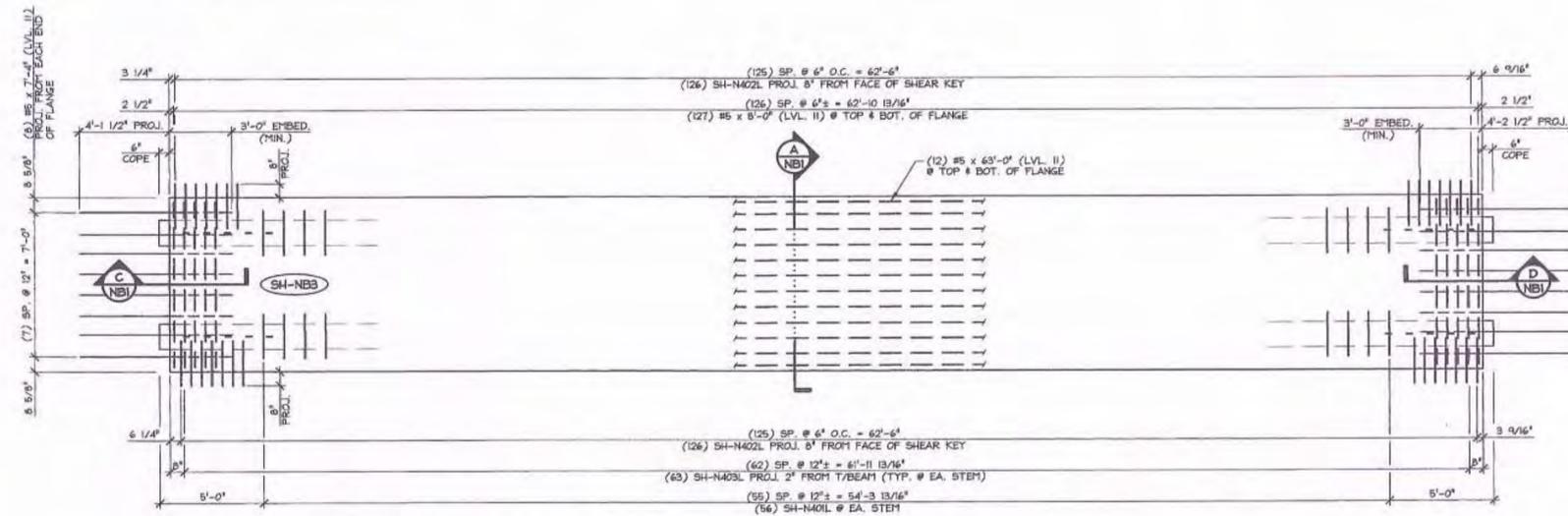
TOWN OF MIDDLEBURY  
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE  
BRIDGE NO.: 13 PROJECT NO.: RS 0174(8)

DATE: OCT. 9, 2013  
SCALE: NOTED  
CHKD: DFTM: B.L.  
JOB NO: 23411-013

PRECAST CURTAIN WALL DETAILS DWG. NO: NB2.1



1 DIMENSIONAL PLAN VIEW IN FORM  
NB3 1/4" = 1'-0"



2 REINFORCING PLAN VIEW IN FORM  
NB3 SEE CURTAIN WALL DETAILS FOR PROJECTING BAR BENDING & PROJECTING STRAND BENDING 1/4" = 1'-0"

Vermont Agency of Transportation

**RECEIVED**

ON: February 12, 2014

and Checked for

**CONFORMANCE**

BY: Jennifer Fitch DATE: 02/27/14

**SHOP DRAWING REVIEW**

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**VHB**      Job Number: 57438.00  
Vermont Highway Builders, Inc.      Reviewed By: B. Masse  
 Date: 2-14-14

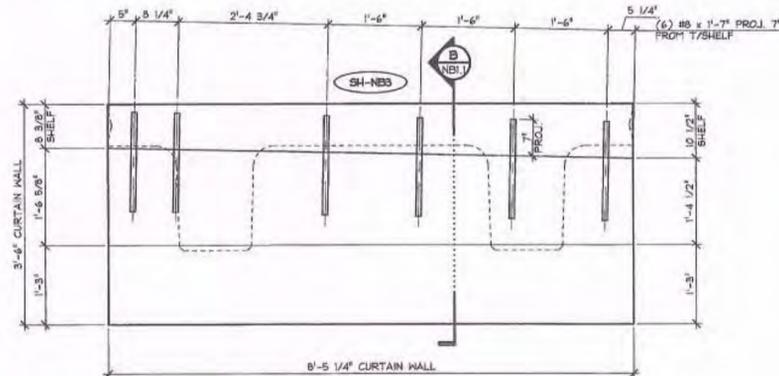
SUBMITTED  
FEB 12 2014  
J. P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

MARK	SH-NB3	QTY.	1	WT.	46.07 T	VOL.	22.75 cy
MATERIAL LIST / NEXT BEAM							
ITEM	MARK	DESCRIPTION	QTY.				
1	SH-N40L	#4 BENT BAR (LEVEL II, DUAL COATED)	168				
2	SH-N40L	#4 BENT BAR (LEVEL II, DUAL COATED)	252				
3	SH-N40L	#4 HAIRPIN (LEVEL II, DUAL COATED)	126				
4	SH-N40L	#4 BENT BAR (LEVEL II, DUAL COATED)	8				
5		#4 x 8'-0" (LVL. II, DUAL COATED)	18				
6							
7		#5 x 7'-4" (LVL. II, DUAL COATED)	16				
8		#5 x 8'-0" (LVL. II, DUAL COATED)	254				
9		#5 x 63'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	24				
10							
11	SH-N60L	#6 BENT BAR (LEVEL II, DUAL COATED)	4				
12	SH-N60L	#6 BENT BAR (LEVEL II, DUAL COATED)	12				
13							
14							
15							
16							
17							
18	MK-NB	BRG. @ 3/4" x 1'-0 1/4" x 1'-4" W/ ANCHORS (GALV.)	2				
19		SET OF (4) 0.60" @ x 270 KSI STRAND LIFTING LOOPS	4				
20							

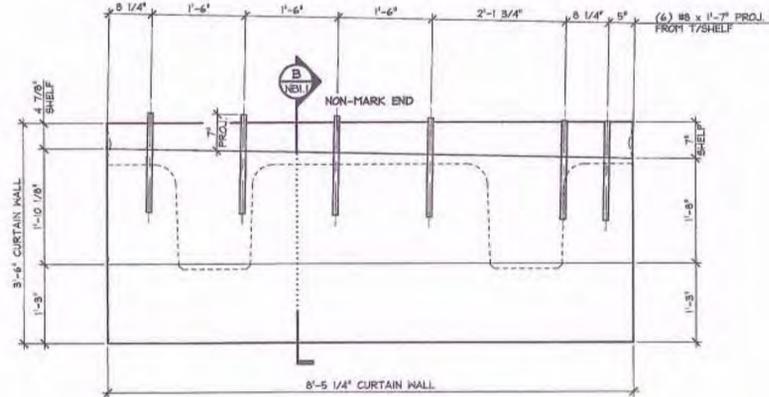
APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer <small>244 ODE SR., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010</small>	<b>T. BUCK CONSTRUCTION</b> CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON	DATE: OCT. 9, 2013 SCALE: NOTED
	TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: 13 PROJECT NO.: RS 0174(B)	CHKD: DFTM: B.L. JOB NO: 23411-013
	<b>PRESTRESSED NEXT BEAM PLANS</b>	DWG. NO: <b>NB3</b>

Vermont Agency of Transportation

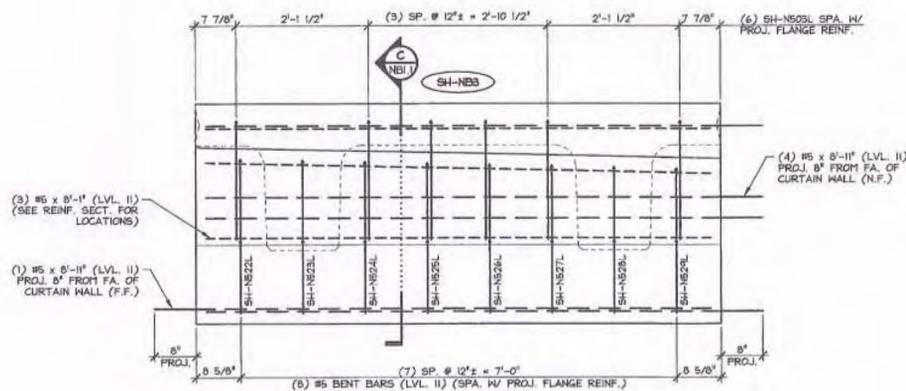
**RECEIVED**  
 ON: February 12, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 02/27/14



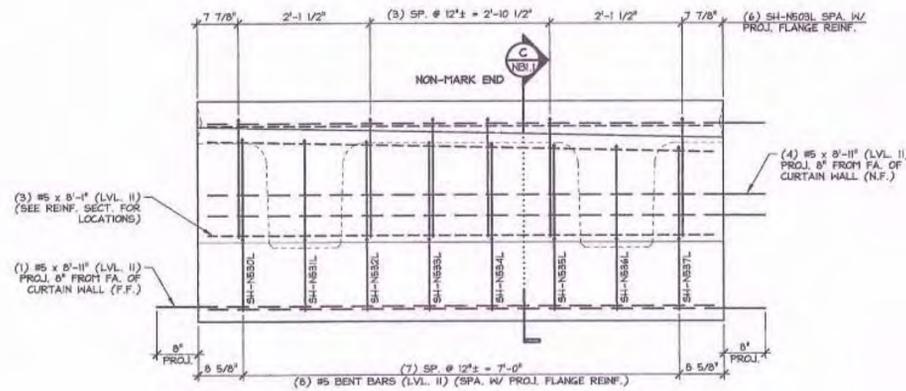
1 CURTAIN WALL DIMENSIONAL ELEVATION  
 NBS.1 VOL.: 1.93 cy WT.: 3.91 T 3/4" = 1'-0"



3 CURTAIN WALL DIMENSIONAL ELEVATION  
 NBS.1 VOL.: 2.24 cy WT.: 4.54 T 3/4" = 1'-0"



2 CURTAIN WALL DIMENSIONAL ELEVATION  
 NBS.1 3/4" = 1'-0"



4 CURTAIN WALL DIMENSIONAL ELEVATION  
 NBS.1 3/4" = 1'-0"

**SHOP DRAWING REVIEW**

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**VHB** Vanasse Hangen Brustlin, Inc.  
 Job Number: 57438-00  
 Reviewed By: J. Plaine  
 Date: 2-14-14

46.07 T = NEXT BEAM  
 3.91 T = CURTAIN WALL (MARK END)  
 4.54 T = CURTAIN WALL (NON-MARK END)  
 54.5 T = TOTAL BEAM WT.

SUBMITTED  
 FEB 12 2014  
 J.P. CARRARA & SONS, INC.  
 Middlebury, VT 05753

MARK: SH-NB3 QTY.: 1

MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	SH-N503L	#5 BENT BAR (LEVEL II, DUAL COATED)	6	6
2	SH-N522L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
3	SH-N523L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
4	SH-N524L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
5	SH-N525L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
6	SH-N526L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
7	SH-N527L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
8	SH-N528L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
9	SH-N529L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
10	SH-N530L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
11	SH-N531L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
12	SH-N532L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
13	SH-N533L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
14	SH-N534L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
15	SH-N535L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
16	SH-N536L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
17	SH-N537L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
18		#5 x 8'-1" (LVL. II, DUAL COATED)	3	3
19		#5 x 8'-1" (LVL. II, DUAL COATED)	5	5
20				
21		#5 x 1'-7" (LEVEL II, DUAL COATED)	6	6
22				
23				
24				
25				

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
 Precast & Prestress Manufacturer  
 244 OAK ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6301 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. 13 PROJECT NO.: RS 0174(8)

DATE: OCT. 9, 2013  
 SCALE: NOTED  
 CHKD: DFTM: B.L.  
 JOB NO: 23411-013  
 DWG. NO: NBS.1

PRECAST CURTAIN WALL DETAILS



Vermont Agency of Transportation

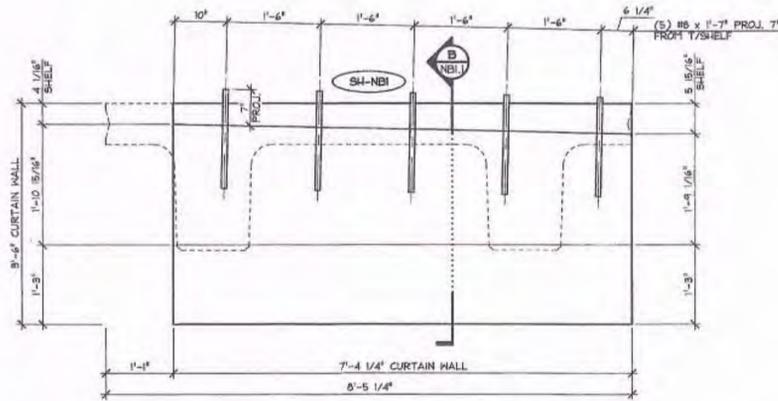
**RECEIVED**

ON: February 12, 2014

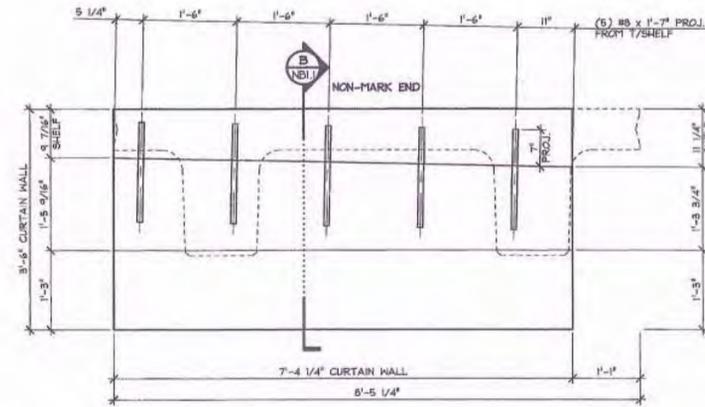
and Checked for

**CONFORMANCE**

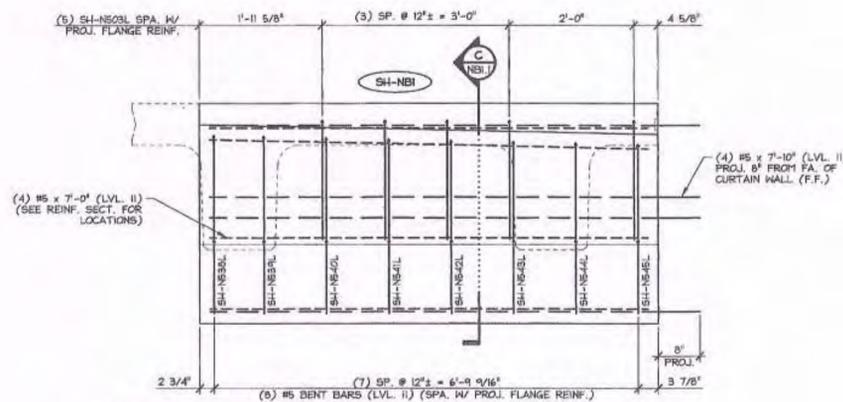
BY: Jennifer Fitch DATE: 02/27/14



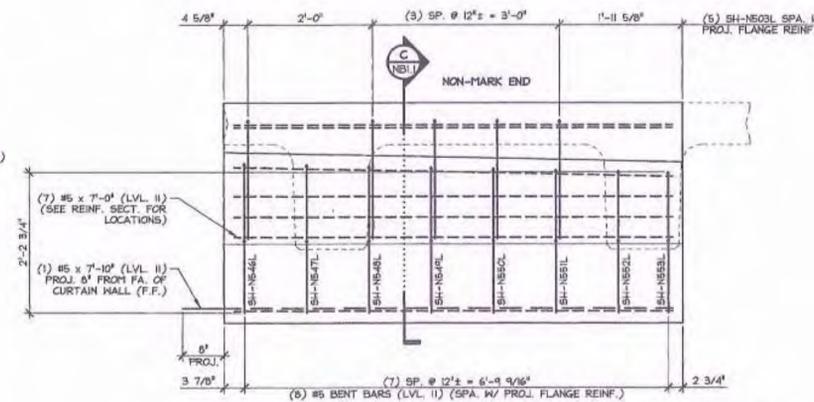
**1 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB4.1 VOL.: 1.06 cy  
WT.: 3.77 T 3/4" = 1'-0"



**3 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB4.1 VOL.: 1.03 cy  
WT.: 3.92 T 3/4" = 1'-0"



**2 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB4.1 3/4" = 1'-0"



**4 CURTAIN WALL DIMENSIONAL ELEVATION**  
NB4.1 3/4" = 1'-0"

**SHOP DRAWING REVIEW**

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**VHB** Veronesi-Hanigan Bruntin, Inc.  
Job Number: 57432-00  
Reviewed By: B. [Signature]  
Date: 2-17-14

45.87 T = NEXT BEAM  
3.77 T = CURTAIN WALL (MARK END)  
3.92 T = CURTAIN WALL (NON-MARK END)  
53.6 T = TOTAL BEAM WT.

SUBMITTED  
FEB 12 2014  
J.P. CARRARA & SONS, INC.  
MIDDLEBURY, VT 05753

MARK: SH-NBI QTY.: 1

MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	SH-N503L	#5 BENT BAR (LEVEL II, DUAL COATED)	5	5
2	SH-N506L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
3	SH-N539L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
4	SH-N540L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
5	SH-N541L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
6	SH-N542L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
7	SH-N543L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
8	SH-N544L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
9	SH-N545L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
10	SH-N546L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
11	SH-N547L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
12	SH-N548L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
13	SH-N549L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
14	SH-N550L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
15	SH-N551L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
16	SH-N552L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
17	SH-N553L	#5 BENT BAR (LEVEL II, DUAL COATED)		1
18		#5 x 7'-0" (LVL II, DUAL COATED)	4	7
19		#5 x 7'-10" (LVL II, DUAL COATED)	4	1
20				
21		#8 x 1'-7" (LEVEL II, DUAL COATED)	5	5
22				
23				
24				
25				

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer  
204 CASE ST., MIDDLEBURY, VERMONT 05753 Phone (802)388-6361 Fax (802)388-0010

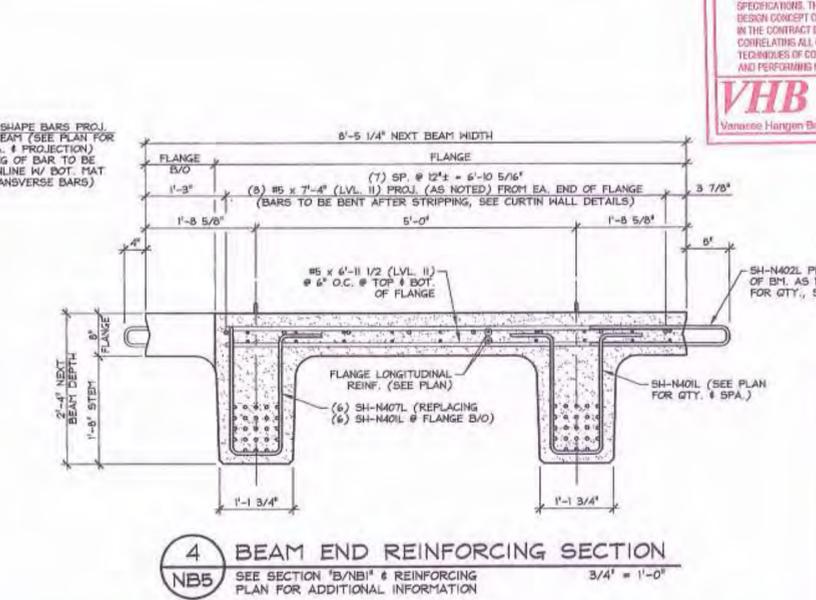
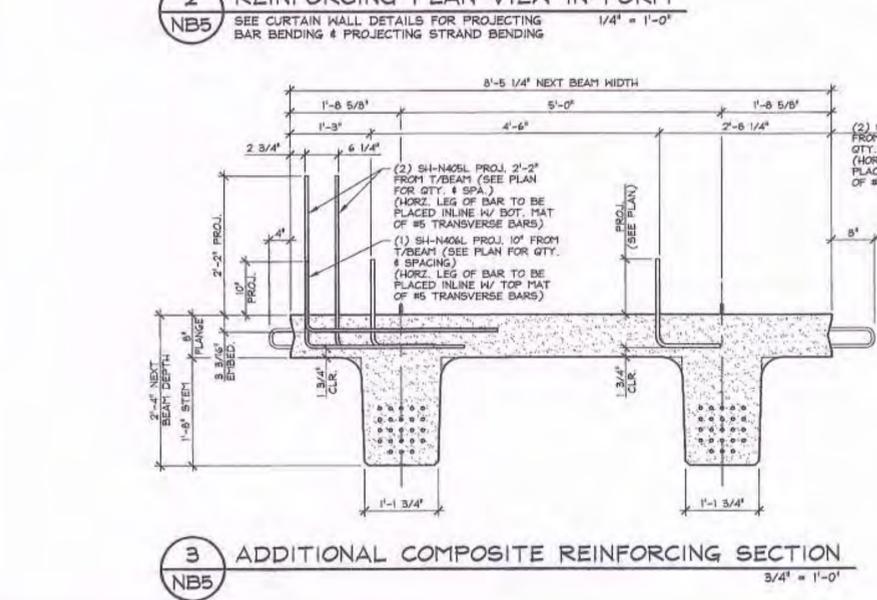
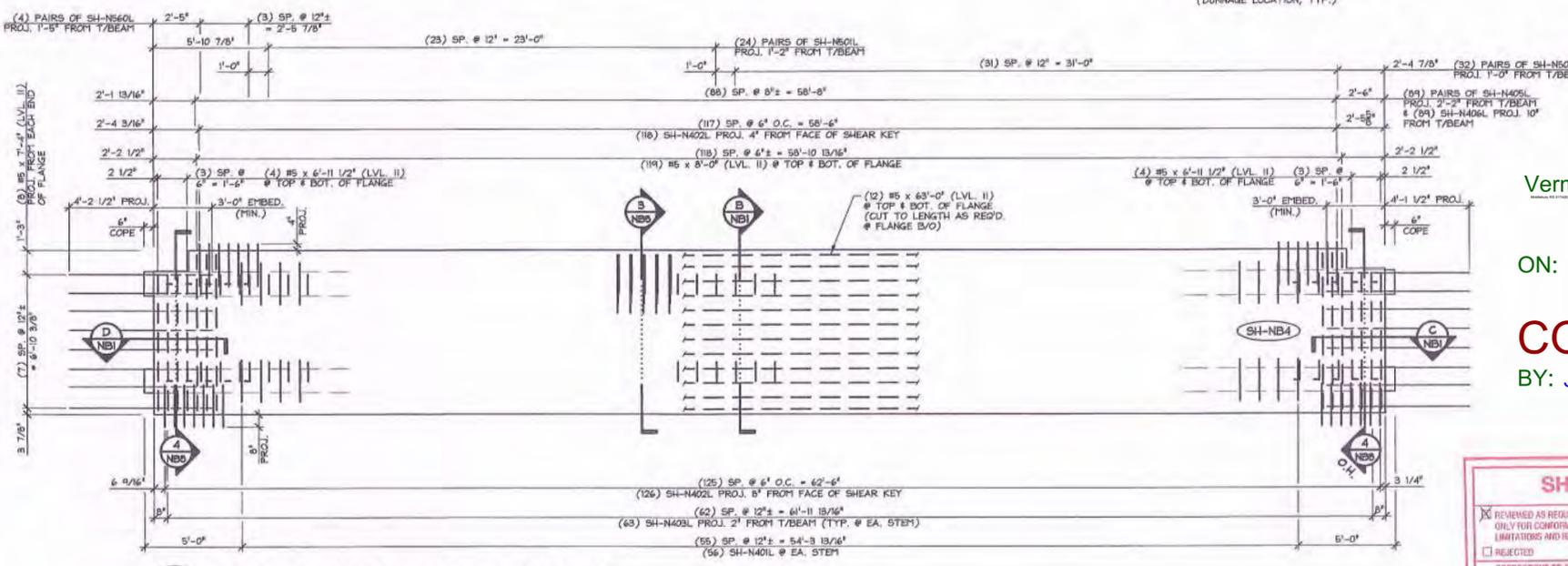
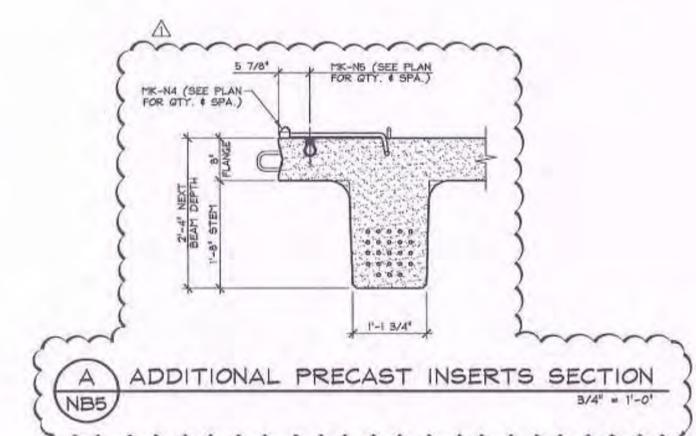
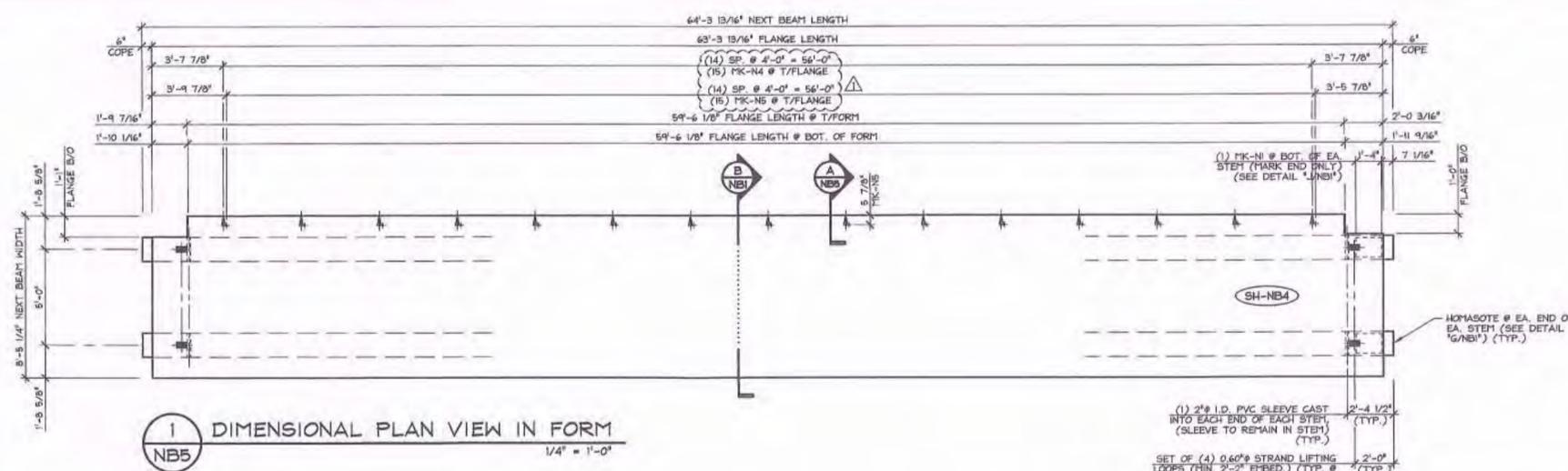
**T. BUCK CONSTRUCTION**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF ADDISON

TOWN OF MIDDLEBURY  
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE  
BRIDGE NO.: 13 PROJECT NO.: RS 0174(B)

DATE: OCT. 9, 2013  
SCALE: NOTED  
CHKD: DFTM: B.L.  
JOB NO: 23411-013  
DWG. NO: NB4.1

**PRECAST CURTAIN WALL DETAILS**



Vermont Agency of Transportation  
**RECEIVED**  
 ON: February 12, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 02/27/14

SUBMITTED  
 FEB 12 2014  
 J. P. CARRARA & SONS, INC.  
 MIDDLEBURY, VT 05753

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**VHB**  
 Vanessa Hargren Brustin, Inc.

Job Number: 57438-00  
 Reviewed By: B. Mans  
 Date: 2-14-14

MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	SH-N40L	#4 BENT BAR (LEVEL II, DUAL COATED)	156
2	SH-N402L	#4 BENT BAR (LEVEL II, DUAL COATED)	244
3	SH-N403L	#4 HAIRPIN (LEVEL II, DUAL COATED)	126
4	SH-N404L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
5	SH-N405L	#4 BENT BAR (LEVEL II, DUAL COATED)	178
6	SH-N406L	#4 BENT BAR (LEVEL II, DUAL COATED)	89
7	SH-N407L	#4 BENT BAR (LEVEL II, DUAL COATED)	12
8		#4 x 0'-0" (LVL. II, DUAL COATED)	18
9	SH-N501L	#5 BENT BAR (LEVEL II, DUAL COATED)	48
10	SH-N502L	#5 BENT BAR (LEVEL II, DUAL COATED)	64
11	SH-N560L	#5 BENT BAR (LEVEL II, DUAL COATED)	5
12		#5 x 6'-11 1/2" (LVL. II, DUAL COATED)	16
13		#5 x 7'-4" (LVL. II, DUAL COATED)	16
14		#5 x 0'-0" (LVL. II, DUAL COATED)	258
15		#5 x 63'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	24
16	SH-N601L	#6 BENT BAR (LEVEL II, DUAL COATED)	4
17	SH-N602L	#6 BENT BAR (LEVEL II, DUAL COATED)	12
18			
19			
20	TK-N1	BRG. E 3/4" x 1'-0 1/4" x 1'-4" W/ ANCHORS (GALV.)	2
21	TK-N4	MODIFIED UNIVERSAL 4APR DECK FORM HANGER 45" (GALV.)	15
22	TK-N5	DAYTON 1/2" F-42 LOOP FERRULE INSERT (GALV.)	15
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4
24			
25			

2-11-14 ADD C.I.P. FORMING INSERTS

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
 Precast & Prestress Manufacturer  
 784 GAZ ST., MIDDLEBURY, VERMONT 05753 Phone: (802) 389-6361 Fax: (802) 389-9010

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

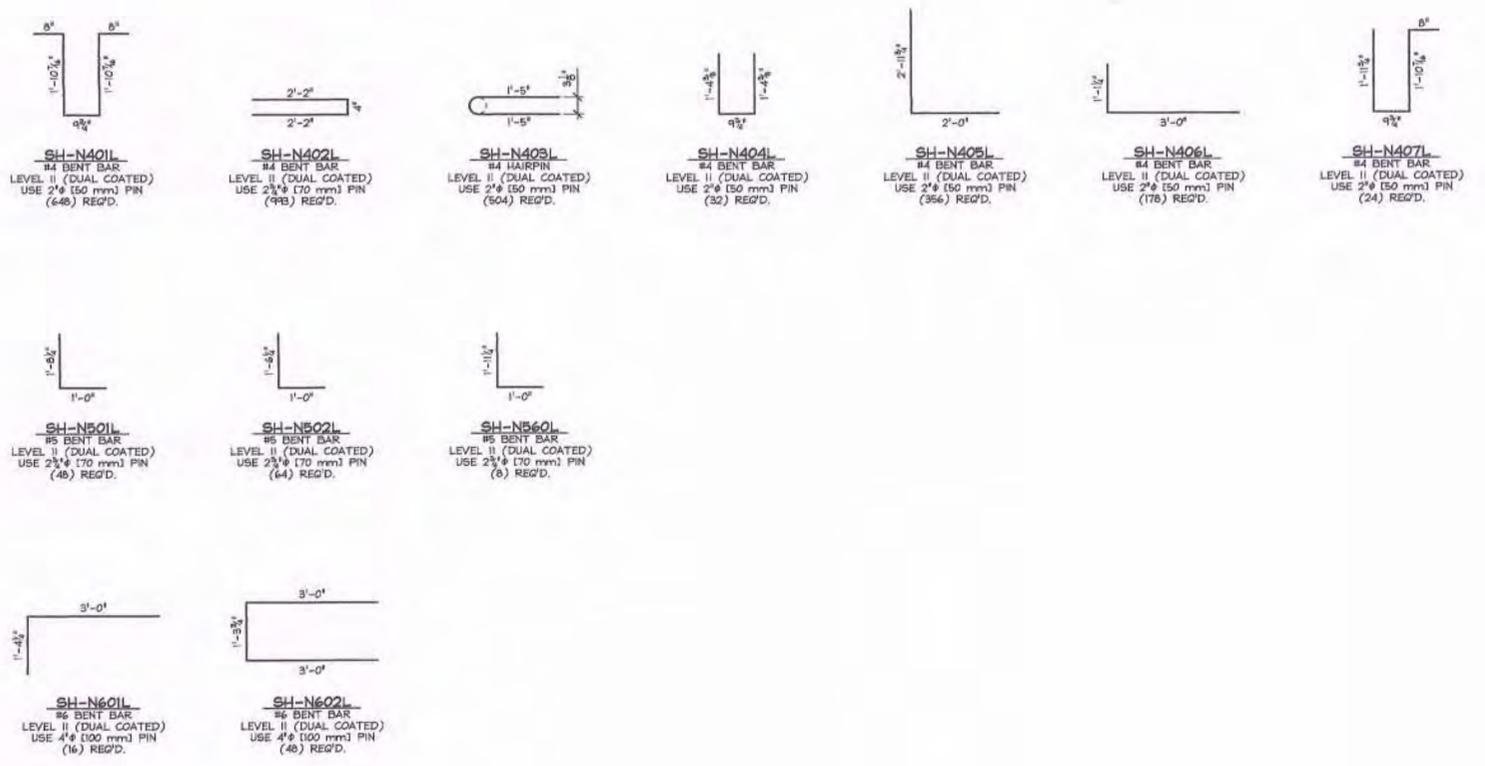
STATE OF VERMONT AGENCY OF TRANSPORTATION  
 COUNTY OF ADDISON

TOWN OF MIDDLEBURY  
 ROUTE NO. VT 125, EAST MIDDLEBURY GORGE  
 BRIDGE NO.: 13 PROJECT NO.: RS 0174(8)

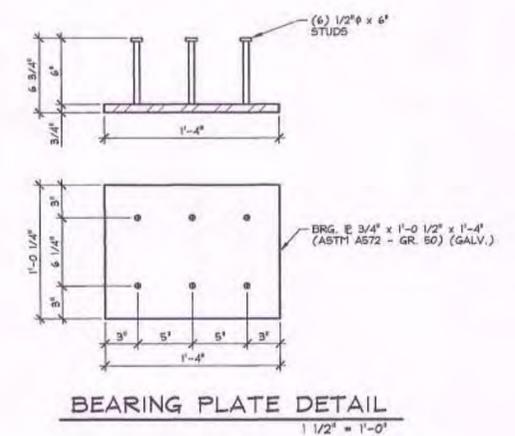
PRESTRESSED NEXT BEAM  
 PLANS & SECTION

DATE: OCT. 9, 2013  
 SCALE: NOTED  
 CHKD: DFTM: B.L.  
 JOB NO: 23411-013  
 DWG. NO: NB5





MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		72	#4 x 8'-0" (LVL. II, DUAL COATED)	
2				
3				
4		32	#5 x 6'-11 1/2" (LVL. II, DUAL COATED)	
5		64	#5 x 7'-4" (LVL. II, DUAL COATED)	
6		984	#5 x 8'-0" (LVL. II, DUAL COATED)	
7		96	#5 x 6'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	
8				
9				
10				
11				
12	MK-N1	8	BRG. P 3/4" x 1'-0 1/4" x 1'-4" W/ ANCHORS (GALV.)	SEE DETAIL, THIS SHEET
13	MK-N2	16	DAYTON 7/8" F-42 LOOP FERRULE INSERT (GALV.)	
14	MK-N3	6	DAYTON 1" F-42 LOOP FERRULE INSERT (STAINLESS STEEL)	
15	MK-N4	30	MODIFIED UNIVERSAL A4FR DECK FORM HANGER 45" (GALV.) (20" LG.)	
16	MK-N5	30	DAYTON 1/2" F-42 LOOP FERRULE INSERT (GALV.)	
17		16	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
18				
19				
20				



Vermont Agency of Transportation  
**RECEIVED**  
 ON: February 12, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 02/27/14

**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

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 COMPLIANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING 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.

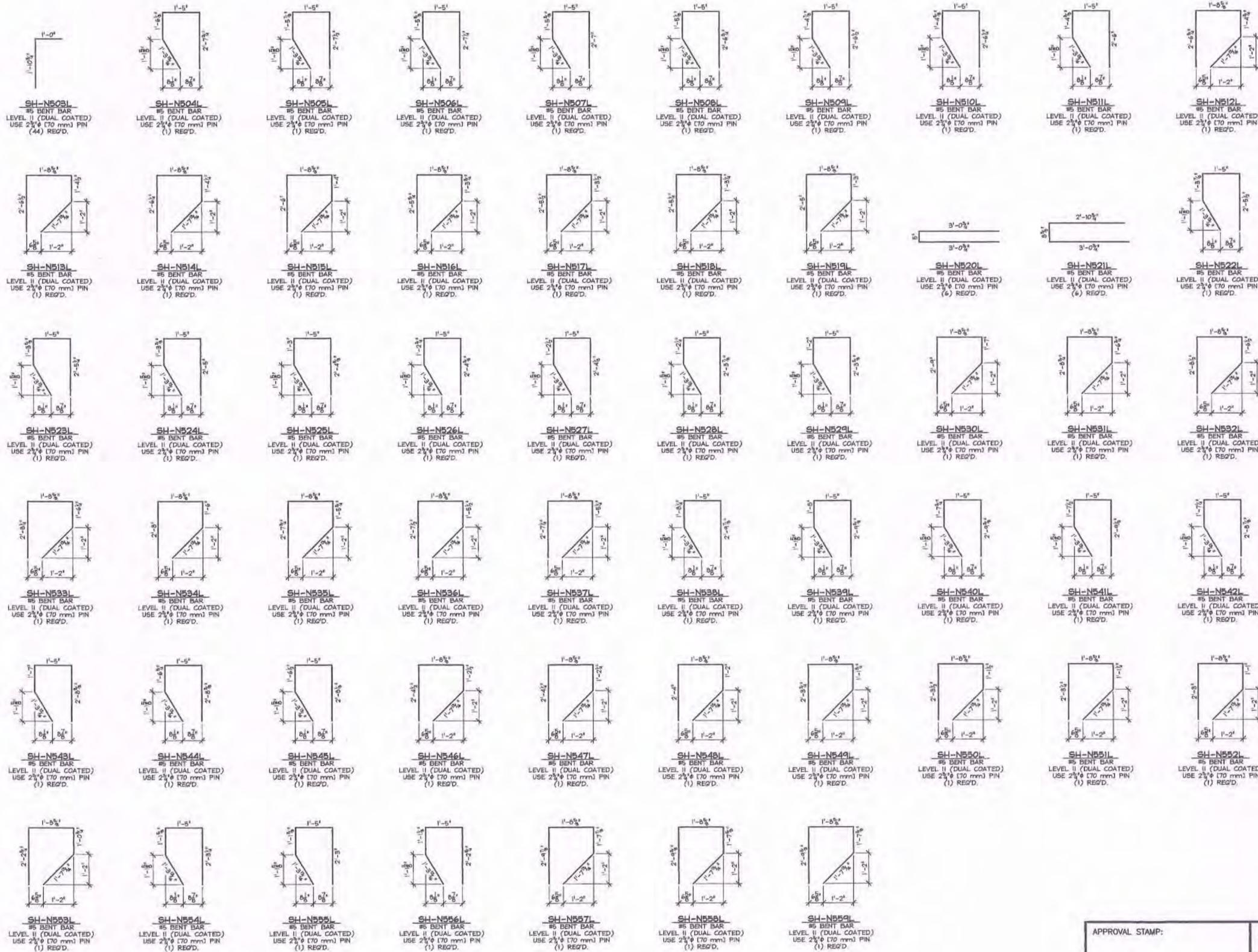
**VHB** Vermont Hanjira Bruster, Inc.      Job Number: 5-7438-00  
 Reviewed By: B. Masse  
 Date: 2-14-14

SUBMITTED  
 FEB 12 2014  
 J. P. CARRARA & SONS, INC.  
 MIDDLEBURY, VT 05753

2-11-14 REVISED AS NOTED

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer <small>294 CASE ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</small>	<b>T. BUCK CONSTRUCTION</b> CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON	DATE: OCT. 9, 2013 SCALE: NOTED
	TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: 13 PROJECT NO.: RS 0174(B)	CHKD:      DFTM: B.L. JOB NO: 23411-013
	<b>NEXT BEAM MATERIALS LIST</b>	DWG. NO: NBM1

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1	4		#5 x 2'-1" (LVL. II, DUAL COATED)	
2	13		#5 x 7'-0" (LVL. II, DUAL COATED)	
3	5		#5 x 7'-1" (LVL. II, DUAL COATED)	
4	9		#5 x 7'-10" (LVL. II, DUAL COATED)	
5	1		#5 x 7'-11" (LVL. II, DUAL COATED)	
6	12		#5 x 8'-1" (LVL. II, DUAL COATED)	
7	20		#5 x 8'-11" (LVL. II, DUAL COATED)	
8				
9	36		#5 x 1'-7" (LVL. II, DUAL COATED)	
10				



Vermont Agency of Transportation  
**RECEIVED**  
 ON: February 12, 2014  
 and Checked for  
**CONFORMANCE**  
 BY: Jennifer Fitch DATE: 02/27/14

**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

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**      Job Number: 57438-00  
Vermont Highway Builders, Inc.      Reviewed By: R. Mason  
 Date: 2-14-14

SUBMITTED  
 FEB 12 2014  
 J.P. Carrara & Sons, Inc.  
 Middlebury, VT 05753

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer <small>244 CATE DR., MIDDLEBURY, VERMONT 05753 Phone: (802)358-6361 Fax: (802)358-0010</small>		<b>T. BUCK CONSTRUCTION</b> CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON		DATE: OCT. 9, 2013	SCALE: NOTED
	TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO. 13 PROJECT NO.: RS 0174(B)		CHKD:	DFTM: B.L.
	<b>CURTAIN WALL MATERIALS LIST</b>		JOB NO: 23411-013	DWG. NO: NBM2