

RECEIVED
 ON: **May 9, 2014**
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 05/16/2014

NEXT BEAM GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 7,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 5,500 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL ADHERE TO THE REQUIREMENTS OF LEVEL II (DUAL COATED) REINFORCING STEEL IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 507.
- 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 SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
- BEAMS SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 90° (VERTICAL PICK). RIGGING SHALL BE CONFIGURED SUCH THAT THE BEAMS REMAIN PLUMB AND LEVEL AT ALL TIMES. A SPREADER BEAM OR FRAME MAY BE REQUIRED. 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 3'-0" OF THE BEAM ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. P510.02 AND P510.05 RESPECTIVELY.
 DESIGN MIX: J.P.C. BRIDGE MIX #430M (5 GAL./CY DCI)
- 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 SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUTED SHEAR KEYS.
- PRECAST CONCRETE PARAPET SHALL HAVE A RUBBED FINISH IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 501.

ABUTMENT, WING WALL, & APPROACH SLAB GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
- MIN. CONCRETE STRENGTH AT STRIPPING SHALL BE 3,500 PSI.
- REINFORCING STEEL IN THE ABUTMENTS & APPROACH SLABS SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL ADHERE TO THE REQUIREMENTS OF LEVEL I REINFORCING STEEL IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 507 (UNLESS NOTED OTHERWISE).
 REINFORCING STEEL IN THE WING WALLS SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL ADHERE TO THE REQUIREMENTS OF LEVEL II (DUAL COATED) REINFORCING STEEL IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 507 (UNLESS NOTED OTHERWISE).
- THE TOP OF ABUTMENTS, APPROACH SLABS, & WING WALLS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
- PRECAST CONCRETE UNITS SHALL BE HANDLED AND ERECTED USING THE LIFTING INSERTS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. NON-PRESTRESSED UNITS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS AT 5th POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPECIFICATION SECTION 540.
 DESIGN MIX:
 WING WALLS: J.P.C. BRIDGE MIX #425M NO DCI
 APPROACH SLABS: J.P.C. BRIDGE MIX #425M NO DCI
 ABUTMENTS: J.P.C. BRIDGE MIX #445M
- 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 PRECAST CONCRETE UNITS ARE FINISHED, A COVER OF RIGID INSULATION AND POLY WILL BE PLACED OVER THE UNIT. NATURAL CURE WITH NO EXTERNAL HEAT APPLIED.
- ABUTMENT POST-TENSIONING SEQUENCE:
 A. ERECT PRECAST CONCRETE ABUTMENTS. APPLY SIKADUR 32 HI-MOD EPOXY TO FIRST UNIT ERECTED AT MATCH CAST JOINT.
 B. THREAD (2) 1/2" POLY STRAND TENDONS THROUGH EACH DUCT IN ABUTMENTS, AND POST-TENSION ALL TENDONS TO APPROXIMATELY 3,000 LBS.
 C. AFTER 12 HOURS, POST-TENSION ALL TENDONS TO 32,000 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.

EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING

(NOT TO BE USED FOR CONSTRUCTION)

SIZE & GRADE: 0.60" x 270 KSI
 AREA: 0.217 IN²
 TENSION: 44,000 LB. EACH STRAND
 GRIP-TO-GRIP: 252'-0" = 252.00'
 Es = 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%)

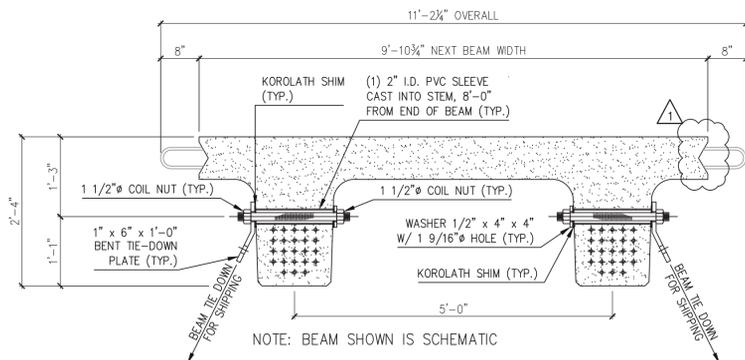
$$\Delta \text{ UPPER LIMIT} = 1.05 \times 19.977" = 20.98" = 21"$$

$$\Delta \text{ LOWER LIMIT} = 0.95 \times 19.977" = 18.98" = 19"$$

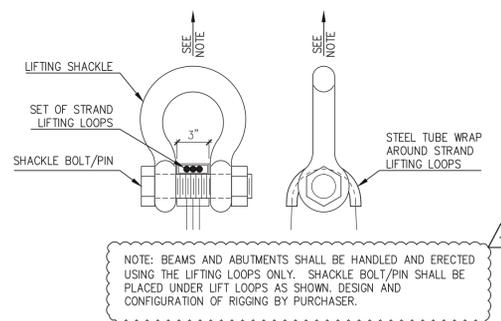
EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE:

$$\Delta P = \frac{0.5 \times 41,000}{19.977} = 1,026 \text{ LBS.}$$

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



NEXT BEAM 28D HOLD-DOWN DETAIL FOR SHIPPING
 N.T.S.



LIFTING SHACKLE DETAILS
 N.T.S.

SHOP DRAWING REVIEW

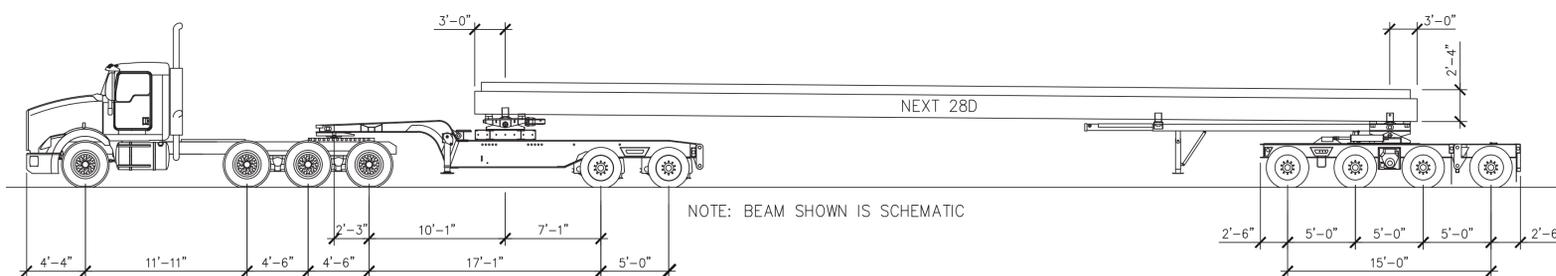
REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS

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.

Vanasse Hangen Brustlin, Inc.
 7056 US Route 7
 North Ferrisburgh, VT 05473
 802.425.7788

Job Number: 52527
 Reviewed By: J.L. WESTCOTT
 Date: 5/16/2014



SHIPPING ELEVATION
 N.T.S.

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4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., WOODBURY, VERMONT 05253 Phone: (802)388-6361 Fax: (802)388-9010	W.M. SHULTZ CONSTRUCTION, INC. PO BOX 2620 BALLSTON SPA, NY 12020
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 15 PROJECT NO.: BRF 0162 (16)	CHKD: DFTM/AAT/RWS JJ/KLT JOB NO: 23419-013
	BRIDGE 16 COVER SHEET	DWG. NO: C1

(17)
 Bridge 16 is correct

SHOP DRAWING REVIEW

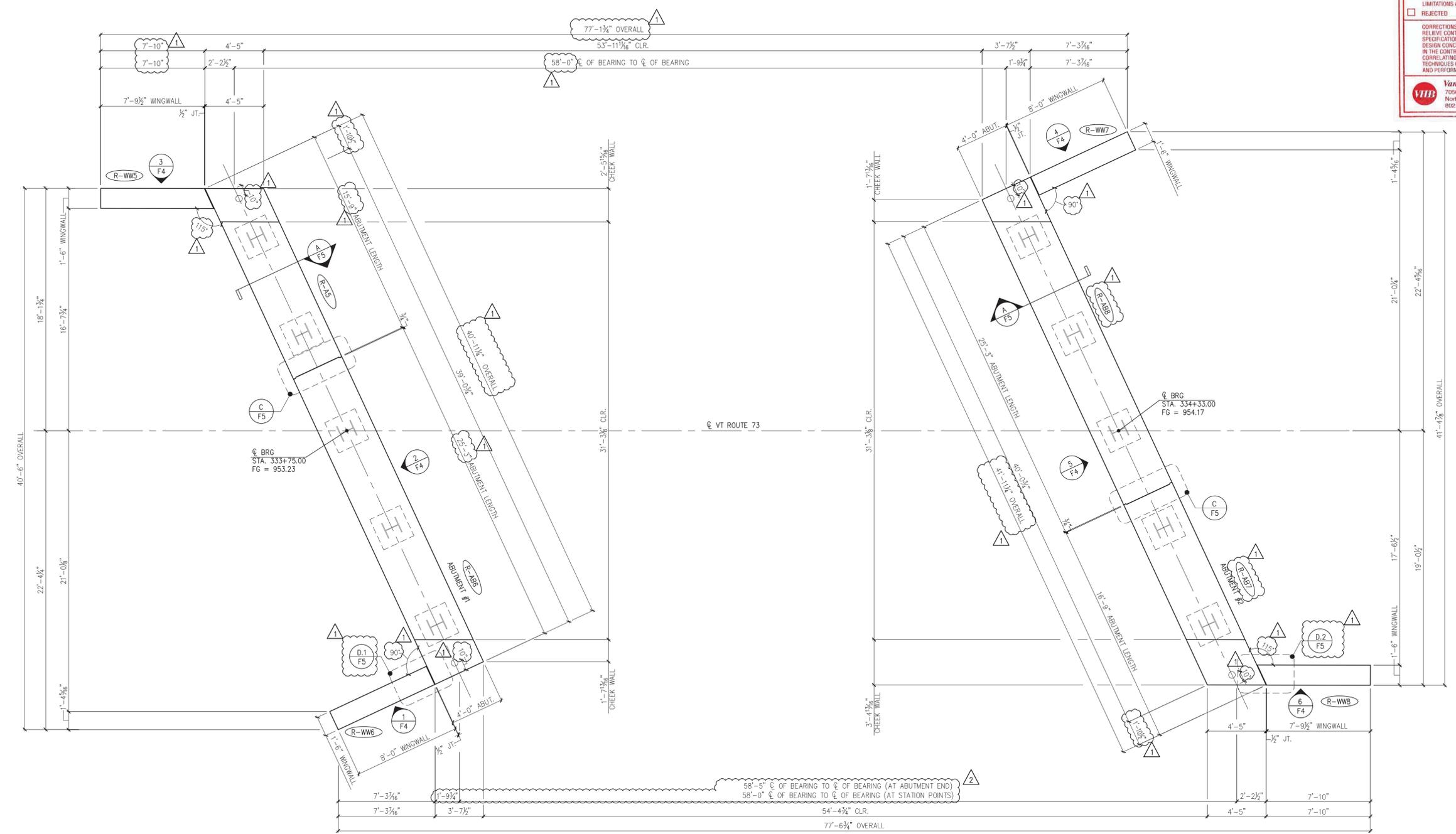
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7056 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 57527
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Date: 5/16/2014



1 PRECAST CONCRETE ABUTMENT AND WINGWALL LAYOUT
1/4" = 1'-0"



- △ 4/30/14 REVISE & RESUBMIT
- △ 4/11/14 REVISE & RESUBMIT

Vermont Agency of Transportation
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	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
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	ABUTMENT AND WINGWALL FRAMING PLAN	DWG. NO: F1

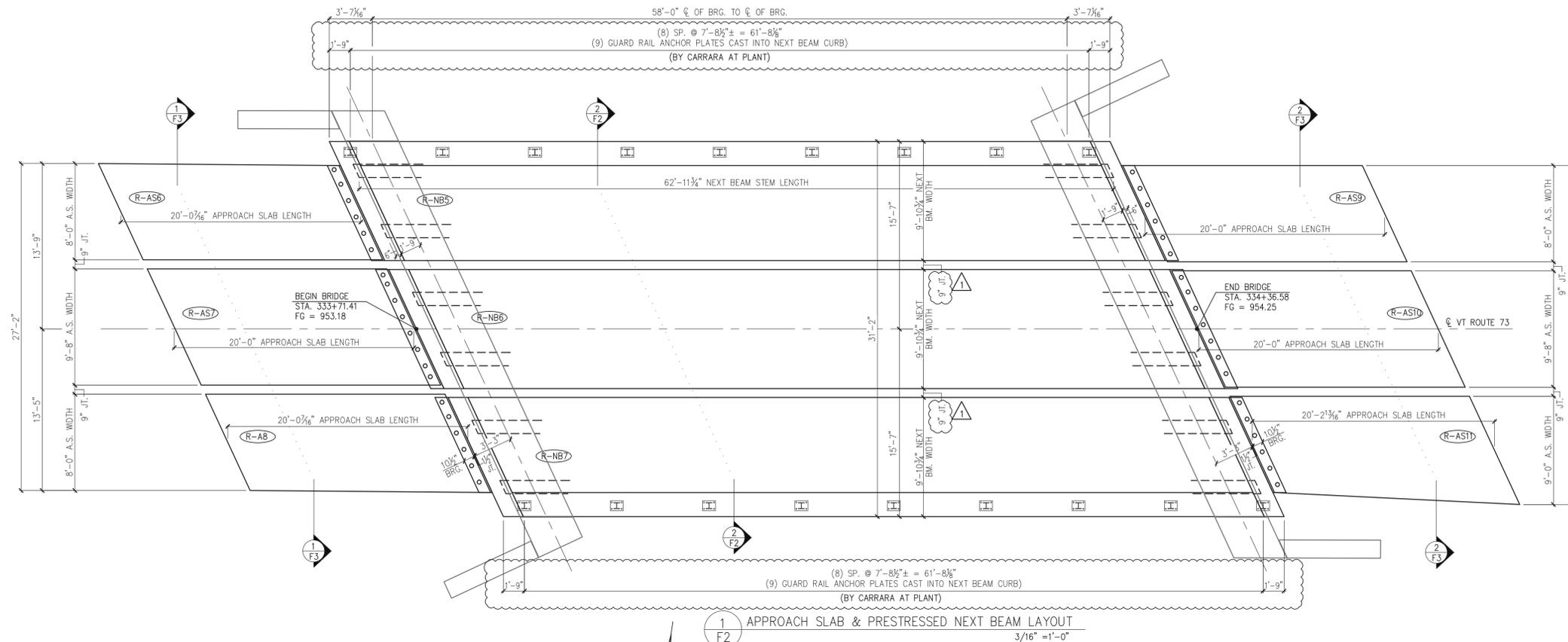
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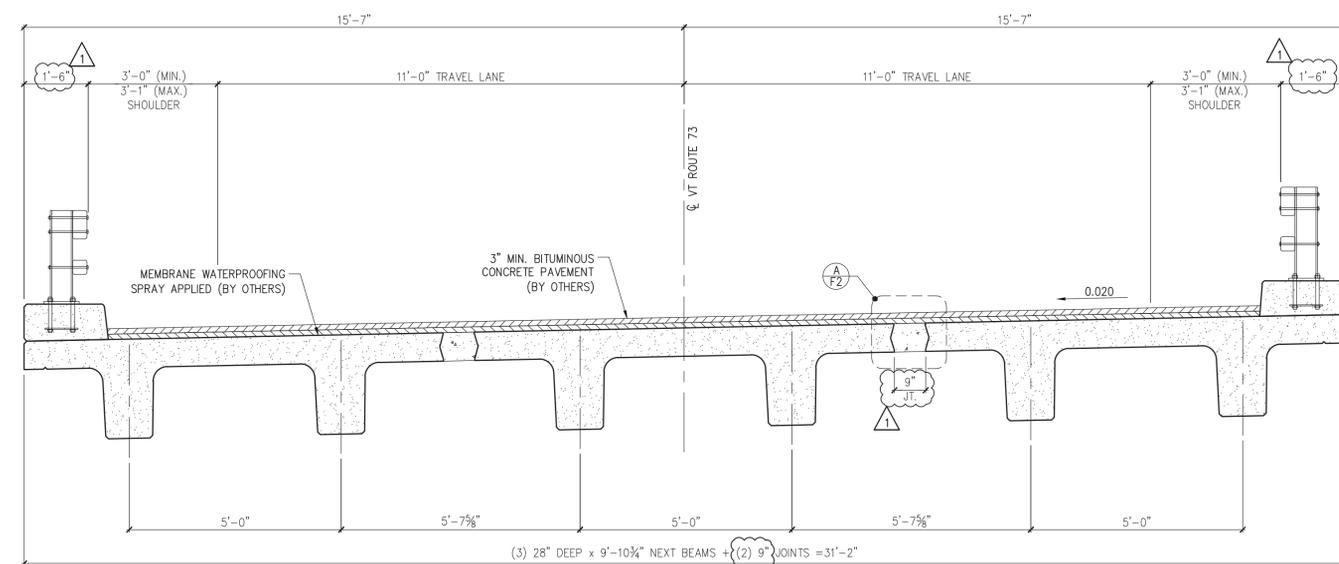
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BY: Jennifer Fitch DATE: 05/16/2014



1 APPROACH SLAB & PRESTRESSED NEXT BEAM LAYOUT
3/16" = 1'-0"



2 NEXT BEAM TRANSVERSE SECTION
1/2" = 1'-0"

SHOP DRAWING REVIEW

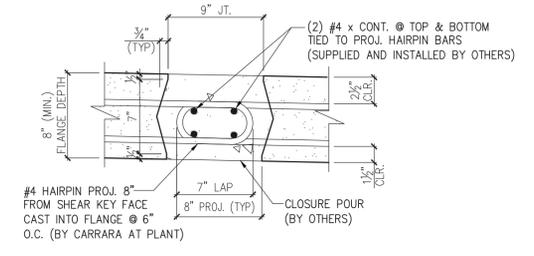
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Vanasse Hangen Brustlin, Inc.
7056 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: S2527
Reviewed By: J.J. WESTCOTT
Date: 5/16/2014



A NEXT BEAM CLOSURE POUR
1 1/2" = 1'-0"

4/11/14 REVISE & RESUBMIT

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	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
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	SUPERSTRUCTURE PLANS & SECTIONS	
		DWG. NO: F2

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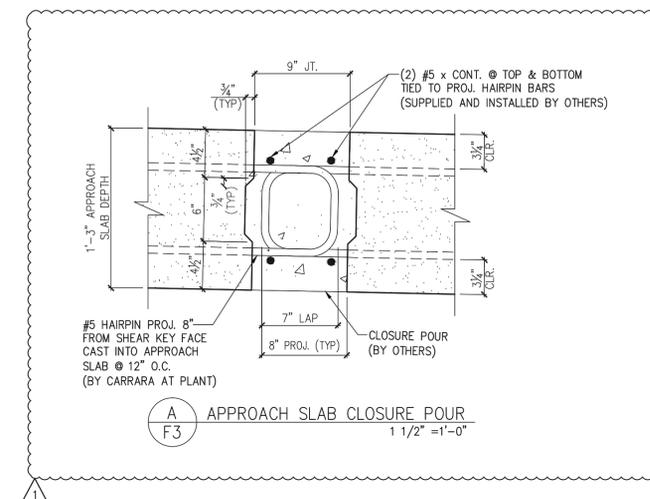
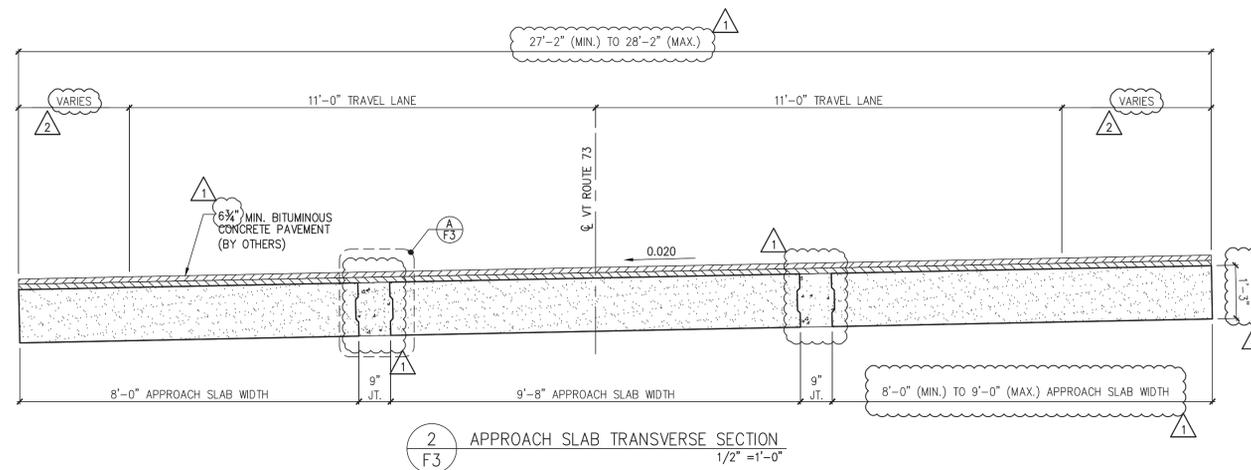
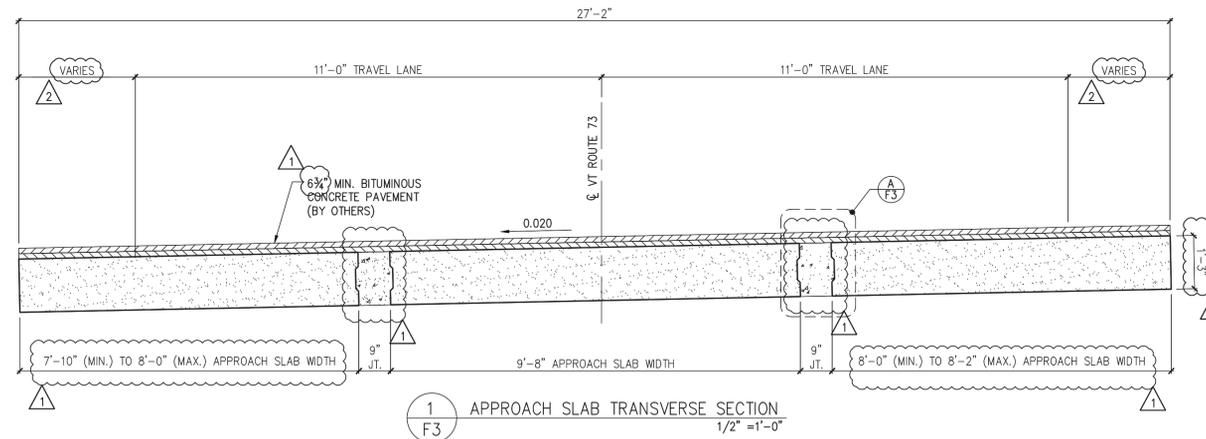
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SHOP DRAWING REVIEW

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VHB Vanasse Hangen Brustlin, Inc. 7036 US Route 7 North Ferrisburgh, VT 05473 802.425.7788	Job Number: 57527 Reviewed By: J.J. WESTCOTT Date: 5/16/2014
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	TRANSVERSE SECTIONS & DETAILS	DWG. NO: F3

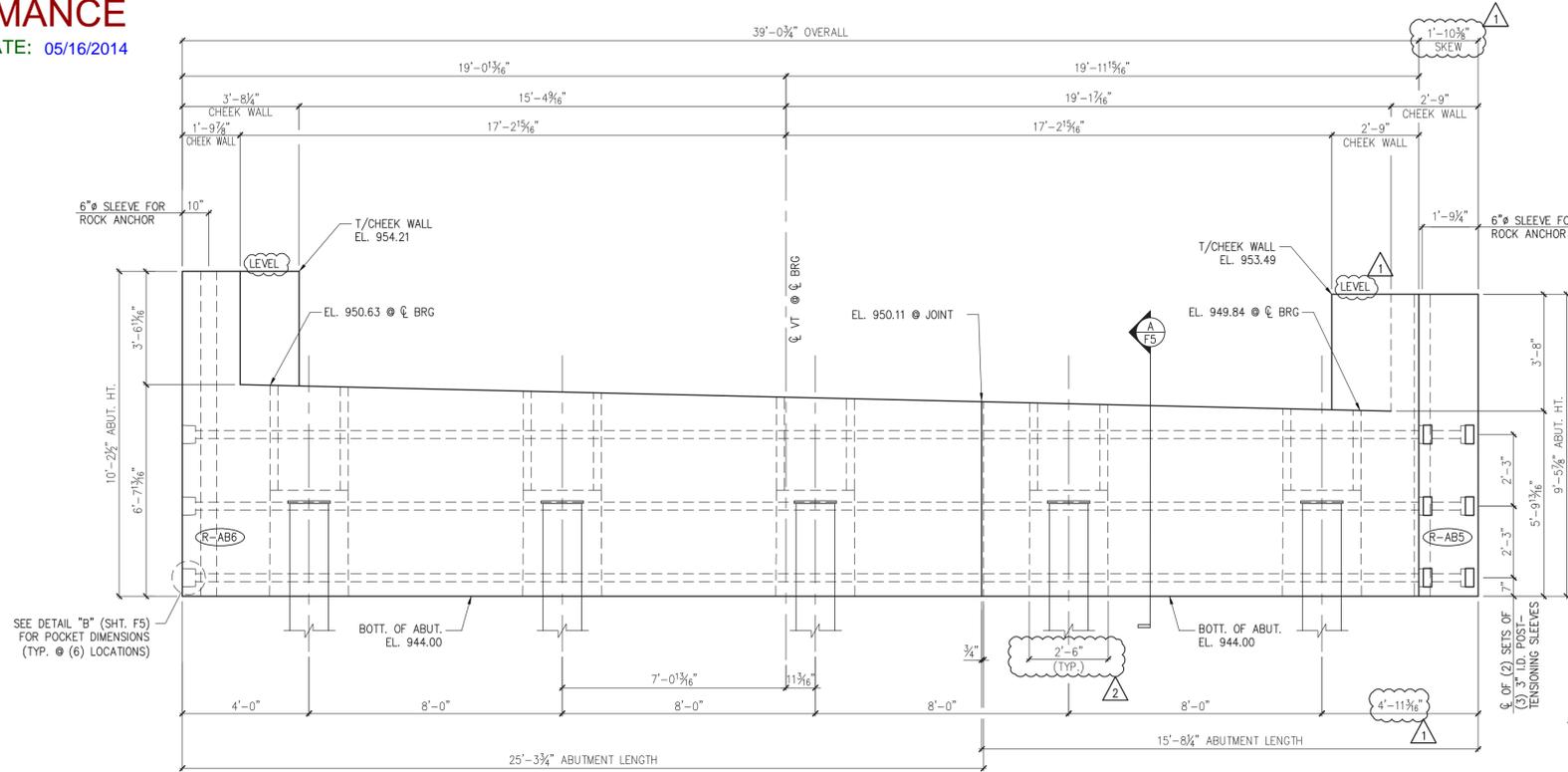
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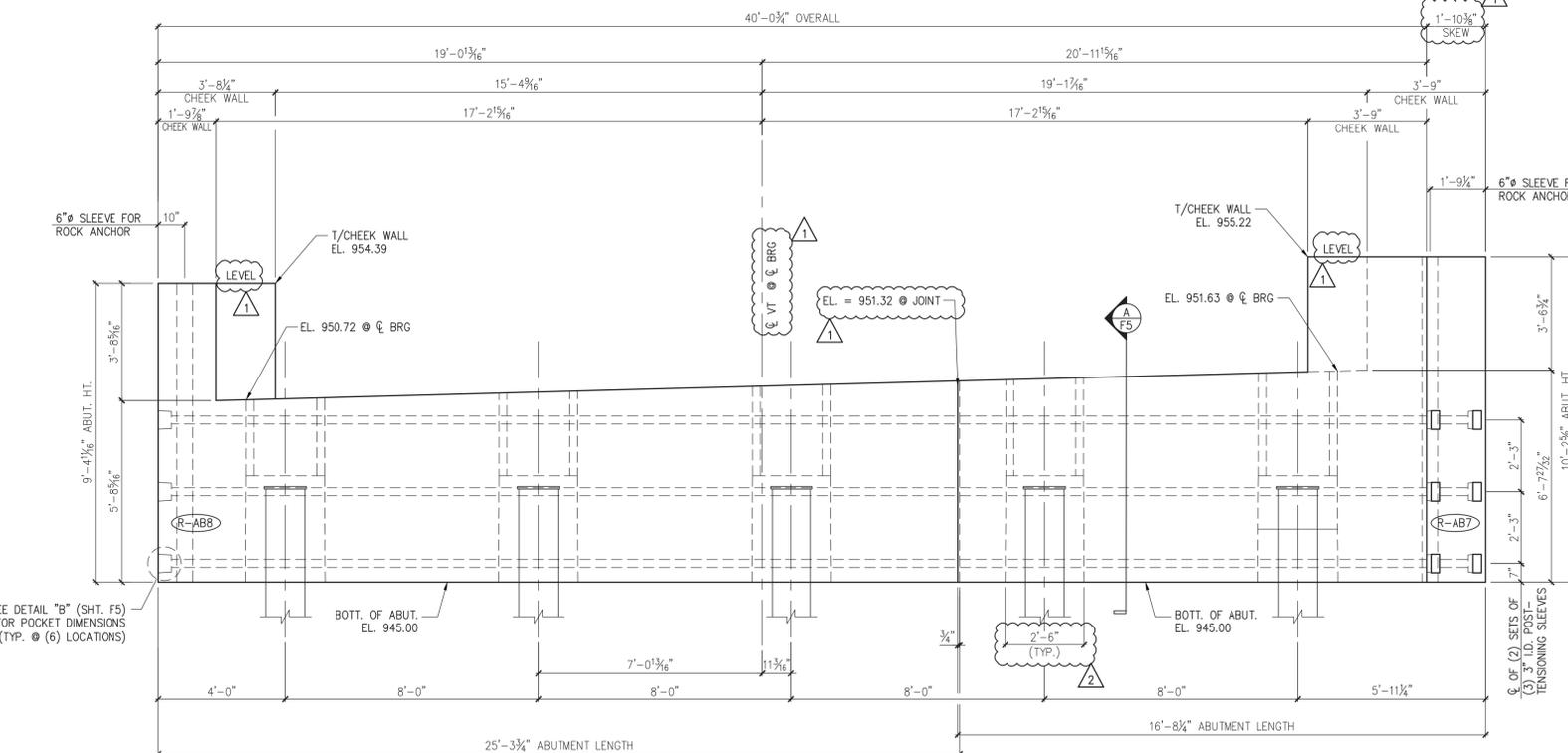
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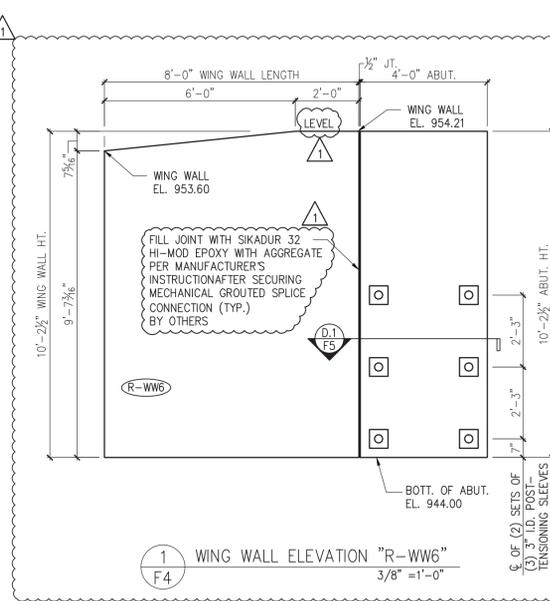
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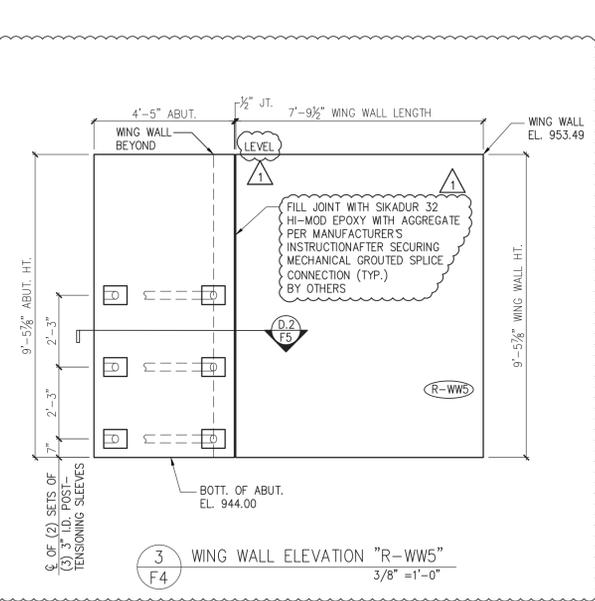
2 ABUTMENT #1 ELEVATION
3/8" = 1'-0"



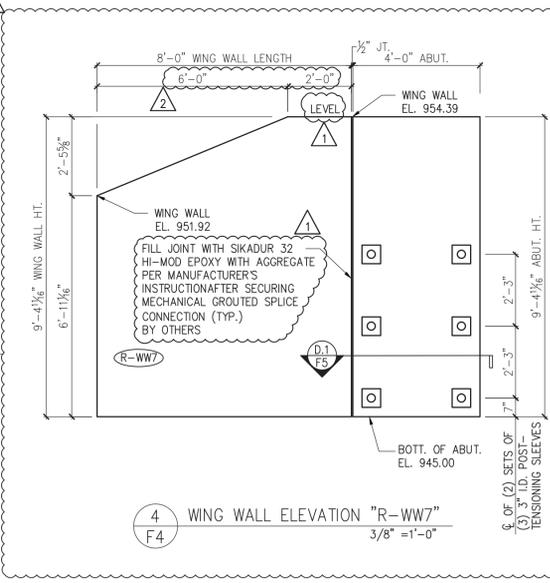
5 ABUTMENT #2 ELEVATION
3/8" = 1'-0"



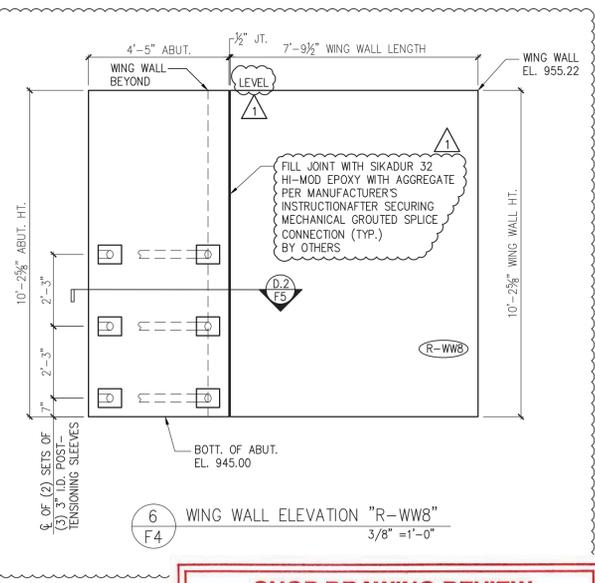
1 WING WALL ELEVATION "R-WW6"
3/8" = 1'-0"



3 WING WALL ELEVATION "R-WW5"
3/8" = 1'-0"



4 WING WALL ELEVATION "R-WW7"
3/8" = 1'-0"



6 WING WALL ELEVATION "R-WW8"
3/8" = 1'-0"

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APPROVAL STAMP:

J.P. CARRARA & SO
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

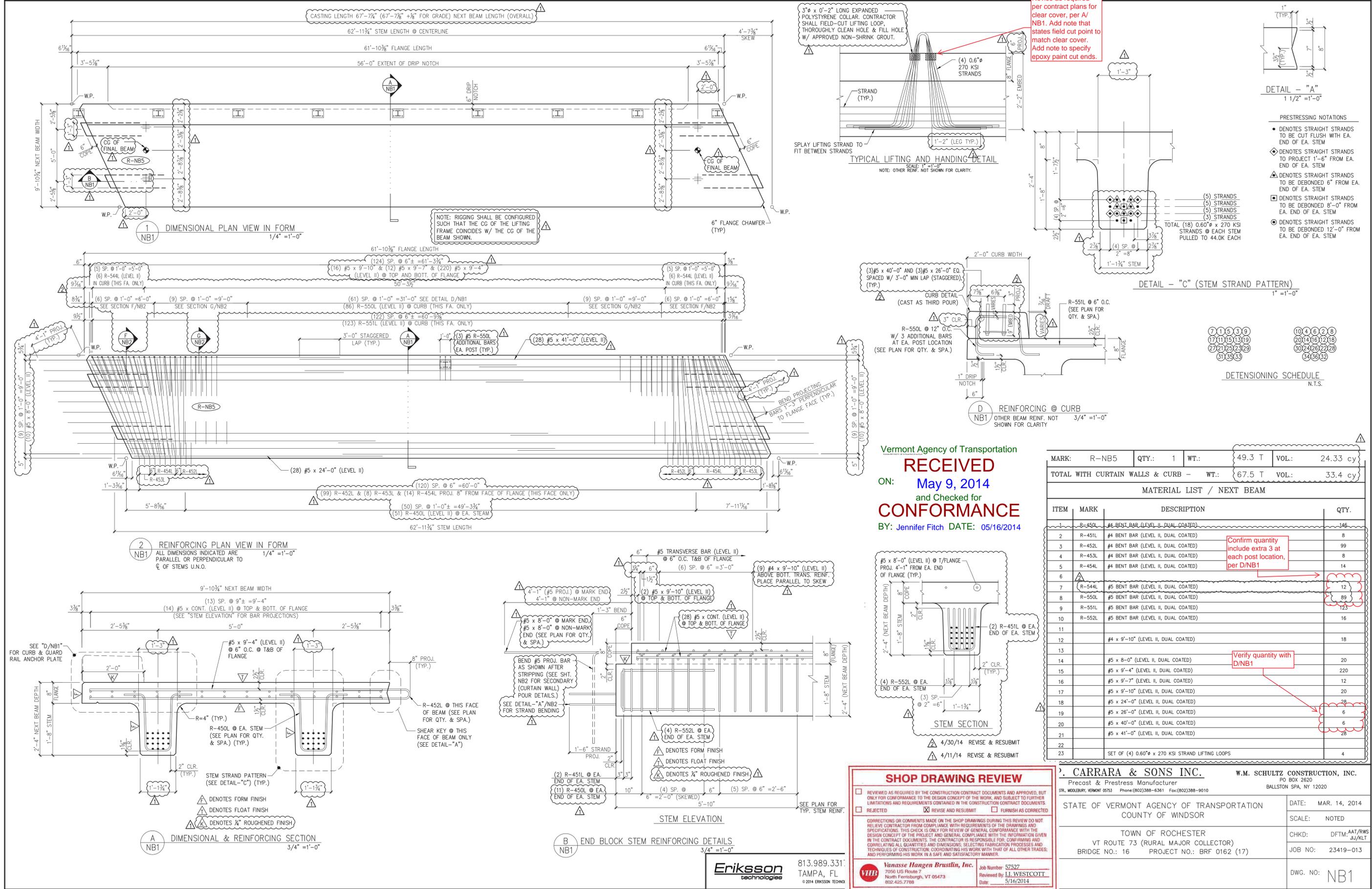
DATE: MAR. 14, 2014
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ABUTMENT ELEVATIONS
DWG. NO: F4

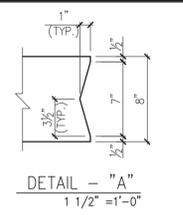
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S:\Engineering Services\Carrara14002 Rochester BR 16 & 16\Production Drawings\AutoCAD Files\Bridge 16\BR-16-FR-1 (2).dwg

S:\Engineering Services\Carrara14002 Rochester BR 16 & 16\Production Drawings\AutoCAD Files\Bridges 16\BR-16 - R-NB1.dwg



Revise as required per contract plans for clear cover, per A/NB1. Add note that states field cut point to match clear cover. Add note to specify epoxy paint cut ends.



- PRESTRESSING NOTATIONS
- DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
 - ◊ DENOTES STRAIGHT STRANDS TO PROJECT 1'-6" FROM EA. END OF EA. STEM
 - ▲ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
 - DENOTES STRAIGHT STRANDS TO BE DEBONDED 8'-0" FROM EA. END OF EA. STEM
 - DENOTES STRAIGHT STRANDS TO BE DEBONDED 12'-0" FROM EA. END OF EA. STEM

(5) STRANDS
(5) STRANDS
(5) STRANDS
(5) STRANDS
TOTAL (18) 0.60" x 270 KSI STRANDS @ EACH STEM PULLED TO 44.0K EACH

DETAIL - "C" (STEM STRAND PATTERN)
1" = 1'-0"



DETENSING SCHEDULE
N.T.S.

Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: **Jennifer Fitch** DATE: **05/16/2014**

MARK:	R-NB5	QTY.:	1	WT.:	49.3 T	VOL.:	24.33 cy
TOTAL WITH CURTAIN WALLS & CURB -		WT.:	67.5 T	VOL.:	33.4 cy		

MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	R-450L	#4 BENT BAR (LEVEL II, DUAL COATED)	146
2	R-451L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
3	R-452L	#4 BENT BAR (LEVEL II, DUAL COATED)	99
4	R-453L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
5	R-454L	#4 BENT BAR (LEVEL II, DUAL COATED)	14
6	R-544L	#5 BENT BAR (LEVEL II, DUAL COATED)	12
8	R-550L	#5 BENT BAR (LEVEL II, DUAL COATED)	89
9	R-551L	#5 BENT BAR (LEVEL II, DUAL COATED)	123
10	R-552L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
11			
12		#4 x 9'-10" (LEVEL II, DUAL COATED)	18
13			
14		#5 x 8'-0" (LEVEL II, DUAL COATED)	20
15		#5 x 9'-4" (LEVEL II, DUAL COATED)	220
16		#5 x 9'-7" (LEVEL II, DUAL COATED)	12
17		#5 x 9'-10" (LEVEL II, DUAL COATED)	20
18		#5 x 24'-0" (LEVEL II, DUAL COATED)	28
19		#5 x 26'-0" (LEVEL II, DUAL COATED)	6
20		#5 x 40'-0" (LEVEL II, DUAL COATED)	6
21		#5 x 41'-0" (LEVEL II, DUAL COATED)	28
22			
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4

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 OBTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

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Vanasse Hangen Brustlin, Inc.
7056 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 52527
Reviewed By: J.L. WESTCOTT
Date: 5/16/2014

CARRARA & SONS INC.
Precast & Prestress Manufacturer
STL, WOODBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

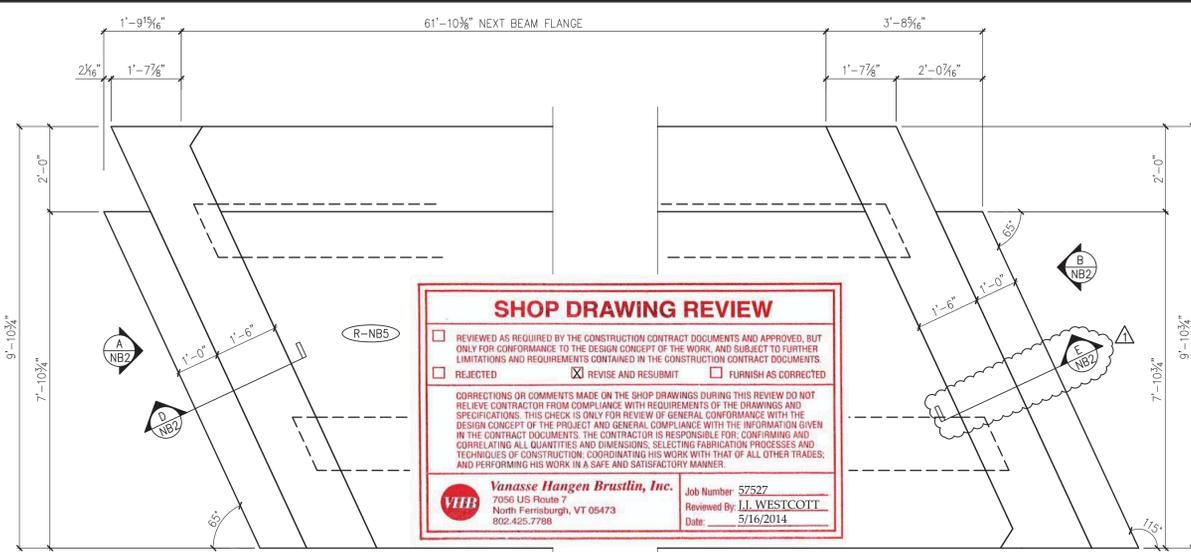
W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2620
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

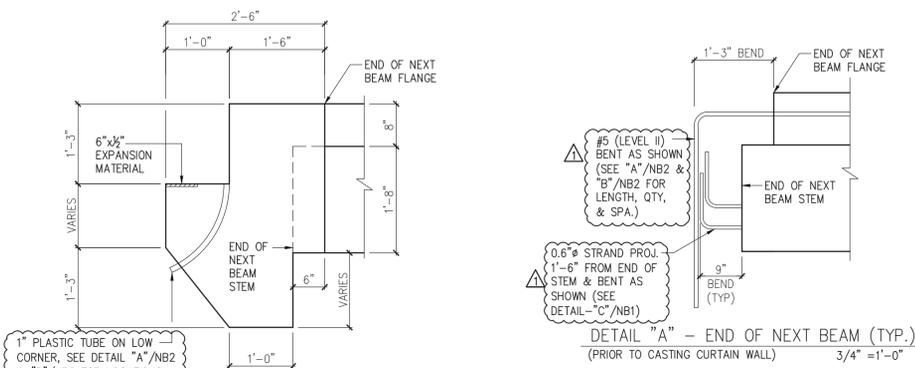
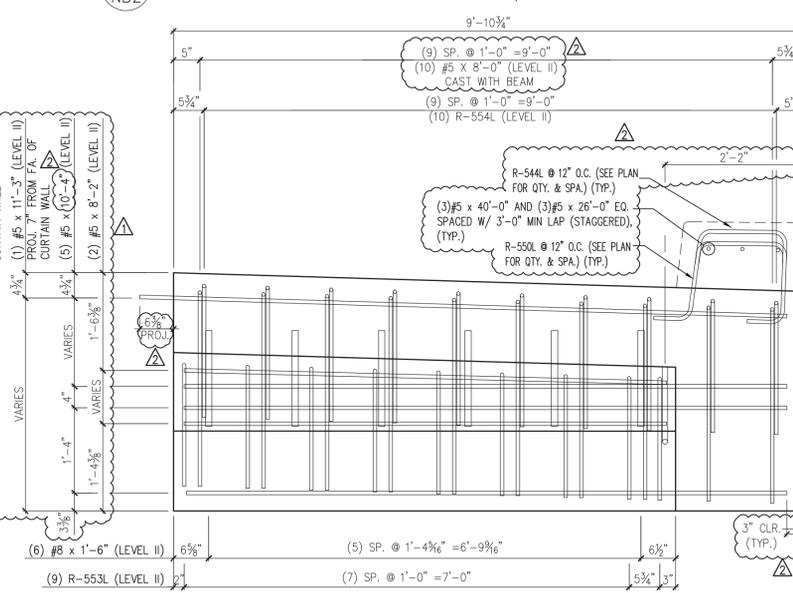
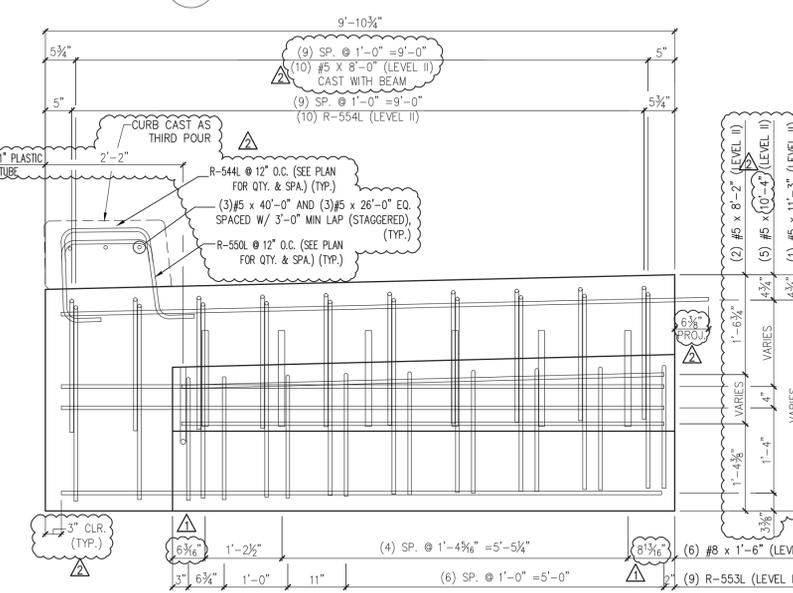
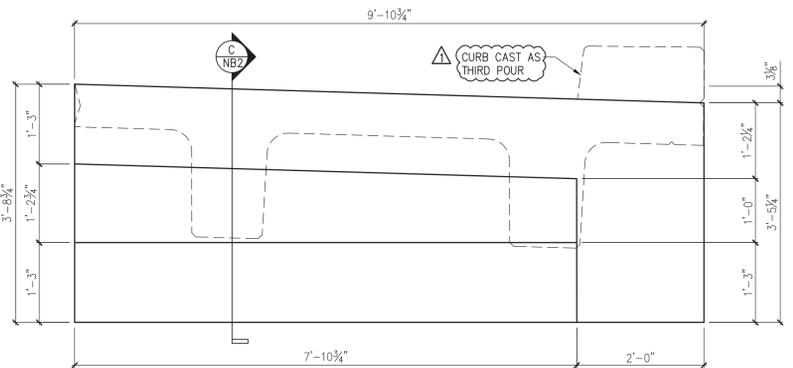
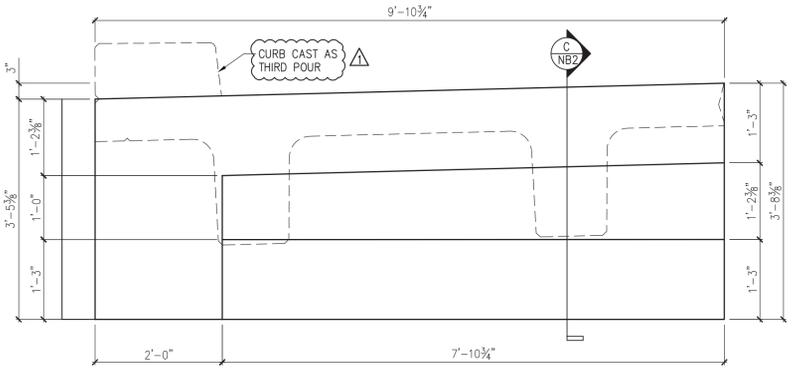
TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM:AAT/RWS
JJJ/KLT
JOB NO: 23419-013
DWG. NO: NB1

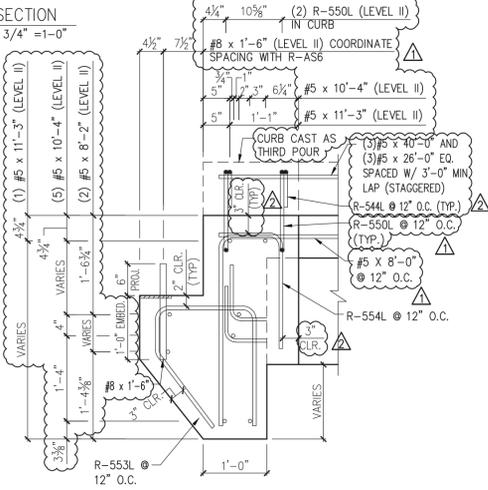
Eriksson technologies
813.989.3311
TAMPA, FL
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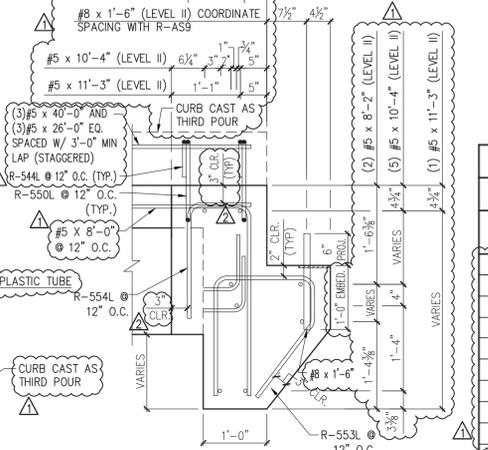
1 CURTAIN WALL PLAN VIEW IN FORM NB2 (CAST AS SECONDARY POUR, AFTER DETENSIONING) 1/2" = 1'-0"



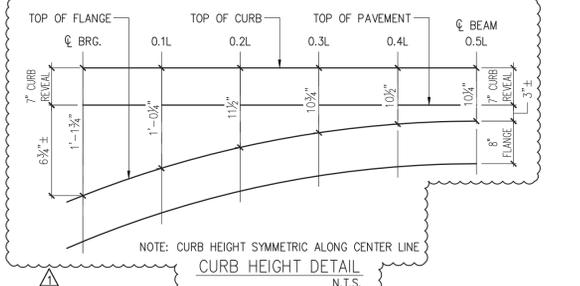
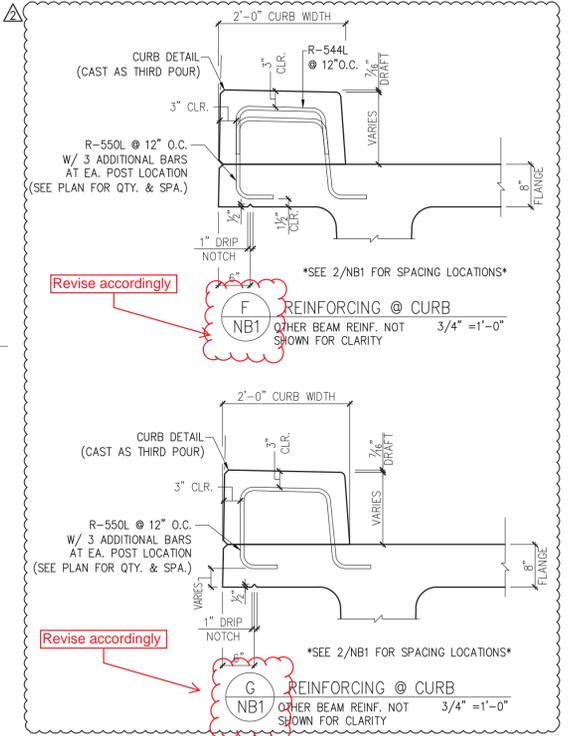
C DIMENSIONAL CURTAIN WALL SECTION NB2 3/4" = 1'-0"



D REINFORCING CURTAIN WALL SECTION NB2 3/4" = 1'-0"



E REINFORCING CURTAIN WALL SECTION NB2 3/4" = 1'-0"



MARK: R-NB5 QTY.: 1 WT.: 9.3 T VOL.: 4.60 cy

MATERIAL LIST / CURTAIN WALLS			
ITEM	MARK	DESCRIPTION	QTY.
1	R-553L	#5 BENT BAR (LEVEL II, DUAL COATED)	18
2	R-554L	#5 BENT BAR (LEVEL II, DUAL COATED)	20
3			
4			
5		#5 x 8'-2" (LEVEL II, DUAL COATED)	4
6		#5 x 10'-4" (LEVEL II, DUAL COATED)	10
7		#5 x 11'-3" (LEVEL II, DUAL COATED)	2
8			
9		#8 x 1'-6" (LEVEL II, DUAL COATED)	12
10			
11		1" PLASTIC TUBE	2
12			
13			
14			

APPROVAL STAMP:

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

W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2620
 BALLSTON SPA, NY 12020

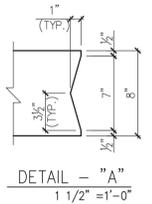
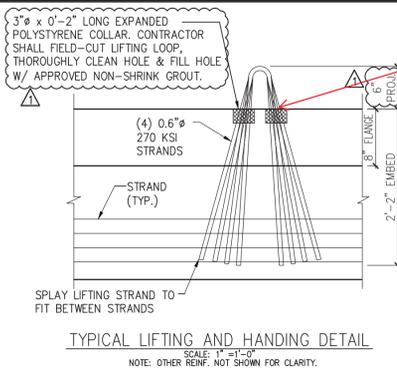
STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM:AAT/RWS JJJ/KLT
 JOB NO: 23419-013
 DWG. NO: NB2

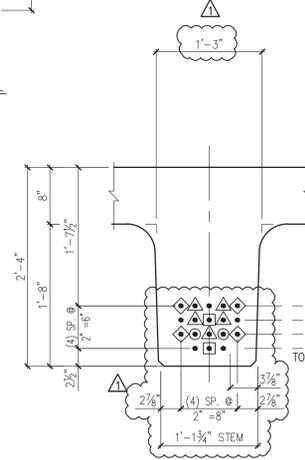
Eriksson technologies
 813.989.3317
 TAMPA, FL LRFD.COM
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Revise as required per contract plans for clear cover, per A/NB1. Add note that states field cut point to match clear cover. Add note to specify epoxy paint cut ends.



Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 05/16/2014

- PRESTRESSING NOTATIONS
- ◻ DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
 - ◊ DENOTES STRAIGHT STRANDS TO PROJECT 1'-6" FROM EA. END OF EA. STEM
 - ▲ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
 - ◻ DENOTES STRAIGHT STRANDS TO BE DEBONDED 8"-0" FROM EA. END OF EA. STEM
 - DENOTES STRAIGHT STRANDS TO BE DEBONDED 12"-0" FROM EA. END OF EA. STEM



SHOP DRAWING REVIEW

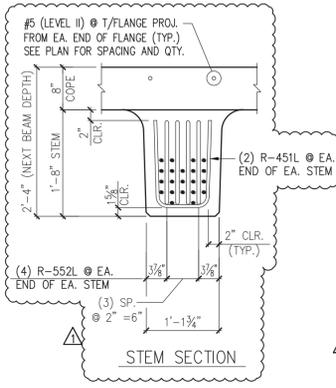
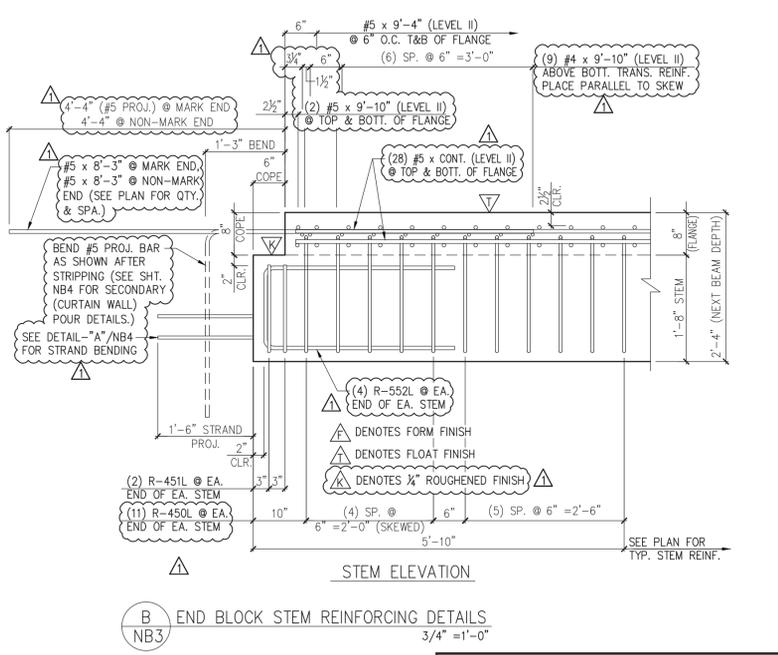
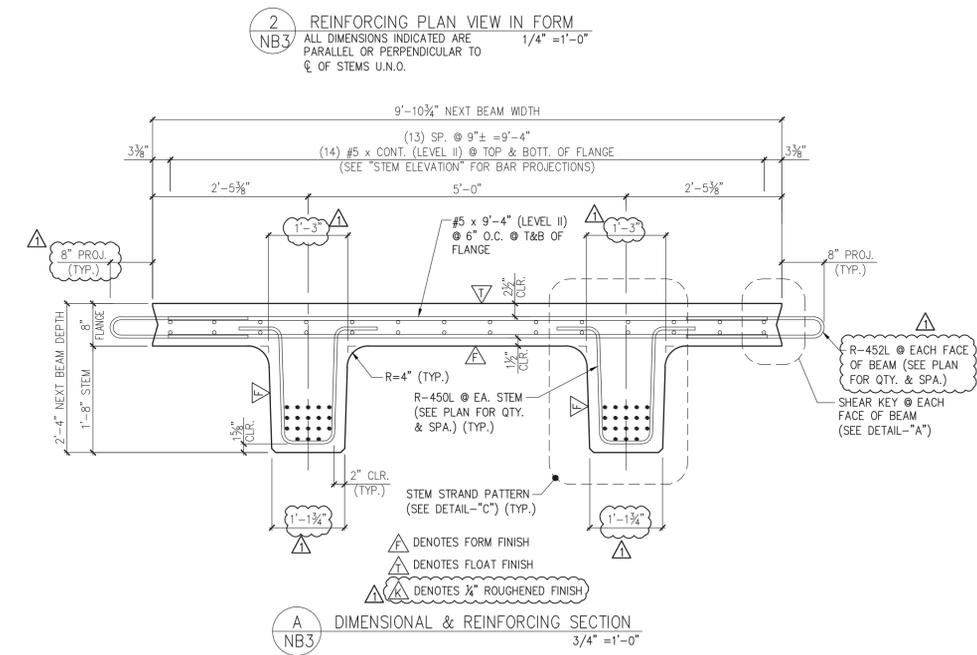
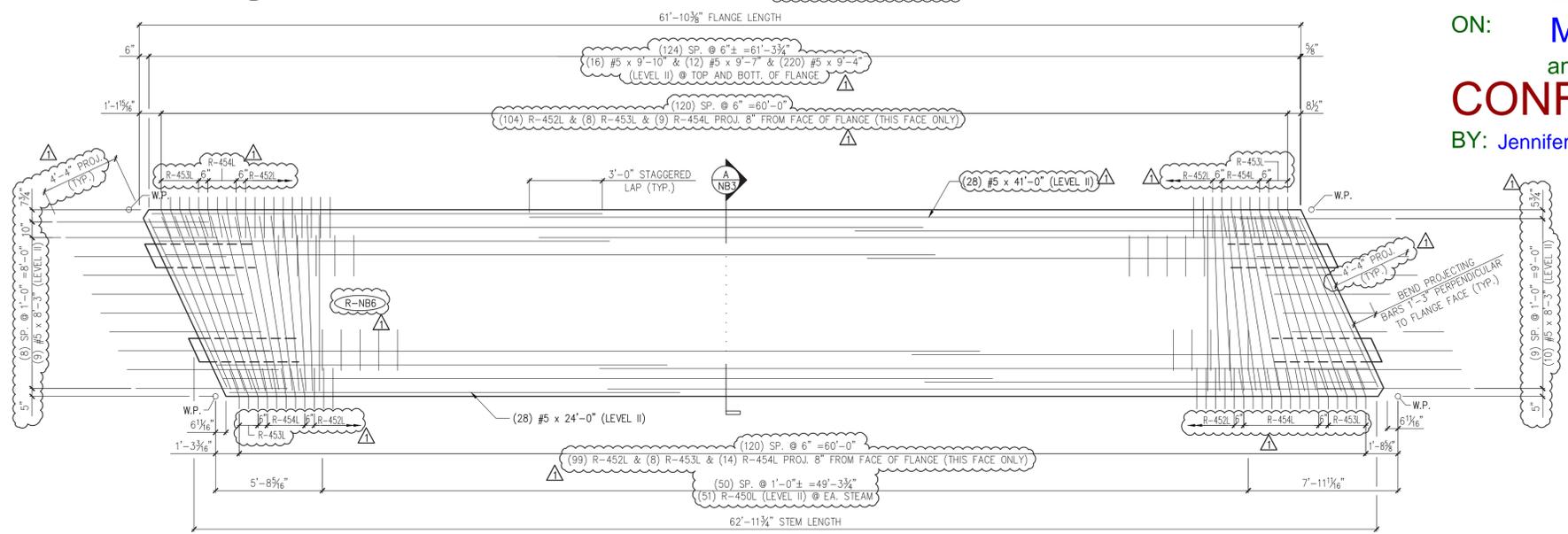
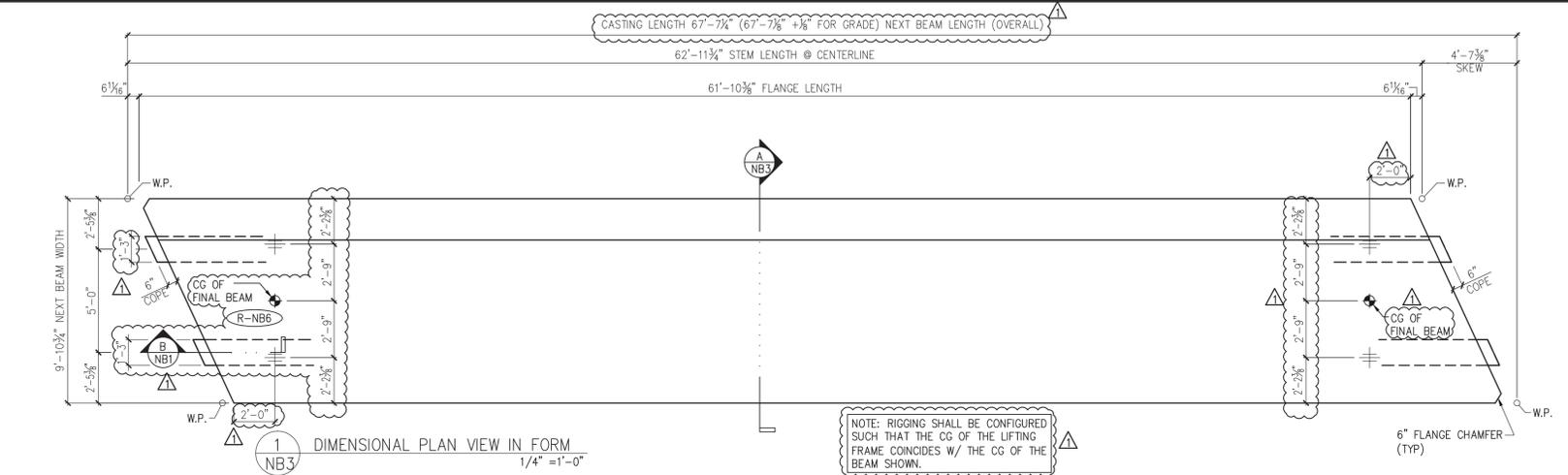
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Vanasse Hangen Brustlin, Inc.
7056 US Route 7
North Ferrisburgh, VT 05473
802.455.7788

Job Number: 57527
Reviewed By: J.L. WESTCOTT
Date: 5/16/2014



MARK:	R-NB6	QTY.:	1	WT.:	49.3 T	VOL.:	24.33 cy
TOTAL WITH CURTAIN WALLS -				WT.:	29.91 T	VOL.:	29.54 cy
MATERIAL LIST / NEXT BEAM							
ITEM	MARK	DESCRIPTION				QTY.	
1	R-450L	#4 BENT BAR (LEVEL II, DUAL COATED)				146	
2	R-451L	#4 BENT BAR (LEVEL II, DUAL COATED)				8	
3	R-452L	#4 BENT BAR (LEVEL II, DUAL COATED)				203	
4	R-453L	#4 BENT BAR (LEVEL II, DUAL COATED)				16	
5	R-454L	#4 BENT BAR (LEVEL II, DUAL COATED)				23	
6							
7	R-552L	#5 BENT BAR (LEVEL II, DUAL COATED)				16	
8							
9		#4 x 9'-10" (LEVEL II, DUAL COATED)				18	
10		#5 x 8'-0" (LEVEL II, DUAL COATED)				20	
11		#5 x 9'-4" (LEVEL II, DUAL COATED)				220	
12		#5 x 9'-7" (LEVEL II, DUAL COATED)				12	
13		#5 x 9'-10" (LEVEL II, DUAL COATED)				20	
14		#5 x 24'-0" (LEVEL II, DUAL COATED)				28	
15		#5 x 41'-0" (LEVEL II, DUAL COATED)				28	
16							
17							
18		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS				4	

4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:
STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR
TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

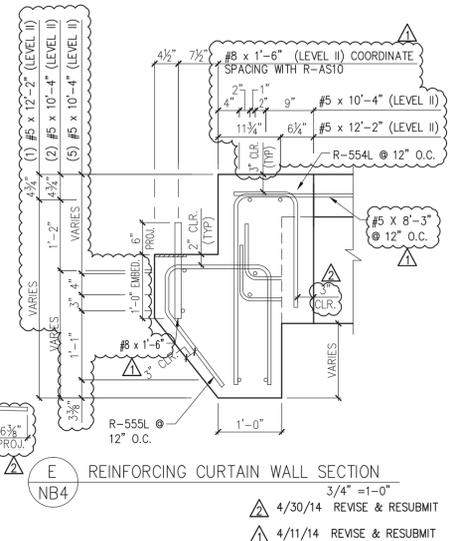
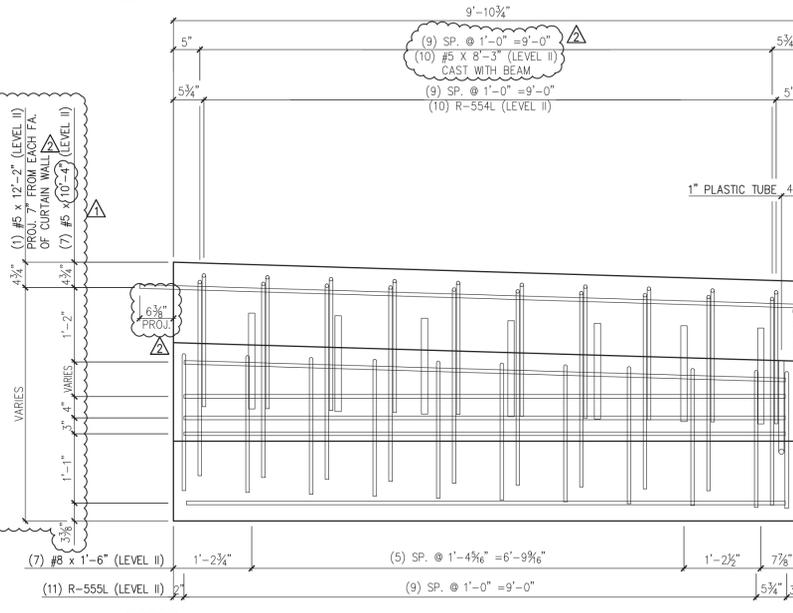
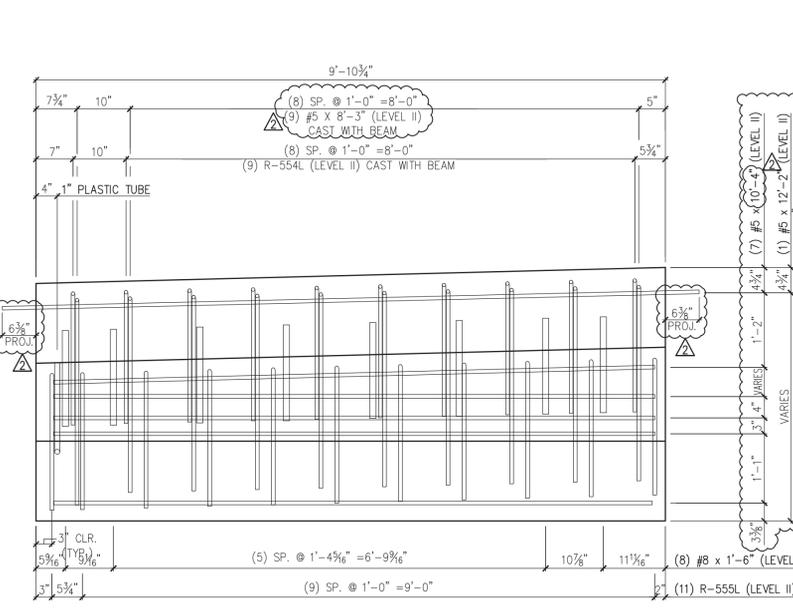
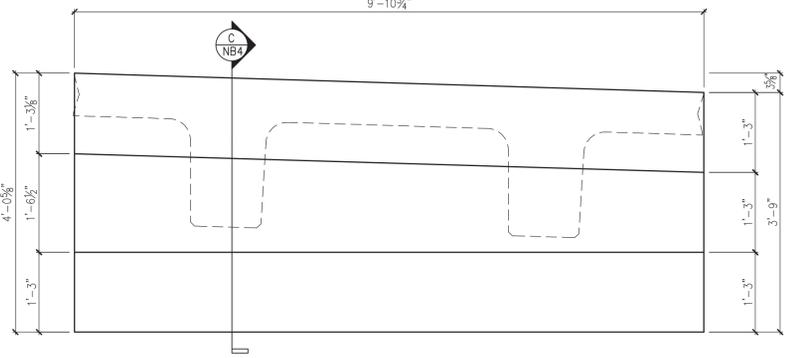
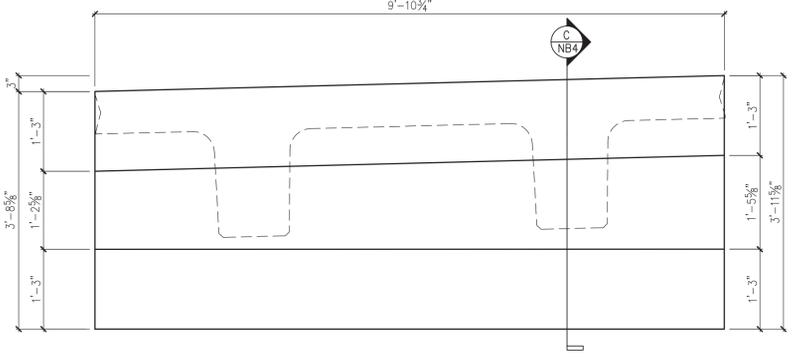
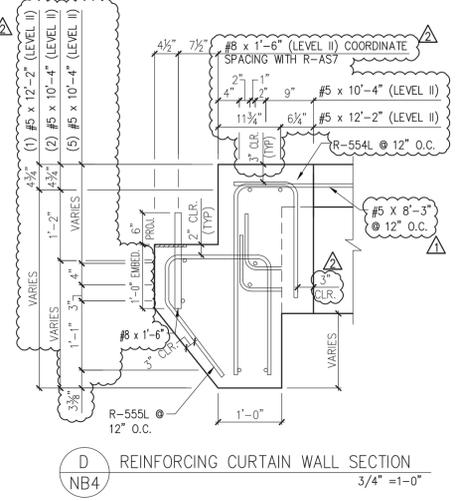
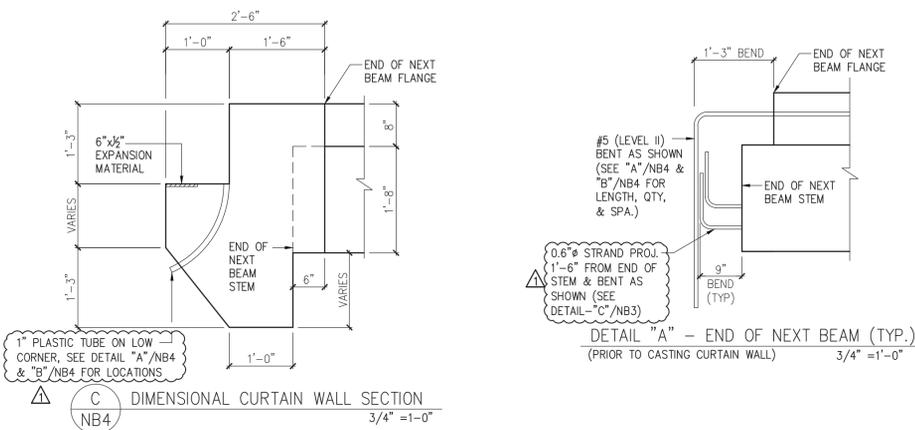
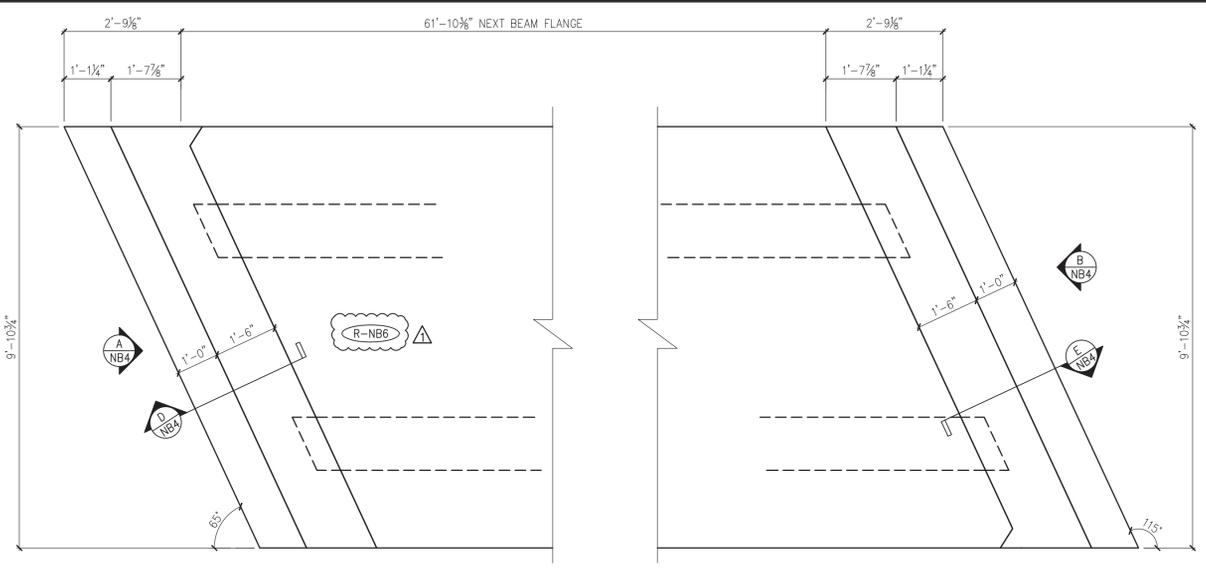
J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2844 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2650
BALLSTON SPA, NY 12020

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM:AAT/RWS
JOB NO: 23419-013
DWG. NO: NB3

Eriksson technologies
813.989.3317
TAMPA, FL LRFDD.COM
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RECEIVED
 ON: **May 9, 2014**
 and Checked for
CONFORMANCE
 BY: **Jennifer Fitch** DATE: **05/16/2014**



SHOP DRAWING REVIEW

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Vanasse Hangen Brustlin, Inc.
 7056 US Route 7
 North Ferrisburgh, VT 05473
 802.425.7788

Job Number: 57527
 Reviewed by: J.J. WESTCOTT
 Date: 5/16/2014

MARK:	R-NB6	QTY.:	1	WT.:	10.6 T	VOL.:	5.22 cy
MATERIAL LIST / CURTAIN WALLS							
ITEM	MARK	DESCRIPTION					QTY.
1	R-554L	#5 BENT BAR (LEVEL II, DUAL COATED)					20
2	R-555L	#5 BENT BAR (LEVEL II, DUAL COATED)					22
3							
4							
5		#5 x 10'-4" (LEVEL II, DUAL COATED)					14
6		#5 x 12'-2" (LEVEL II, DUAL COATED)					2
7							
8		#8 x 1'-6" (LEVEL II, DUAL COATED)					15
9							
10		1" PLASTIC TUBE					2
11							
12							
13							
14							

APPROVAL STAMP:
 4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

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

W.M. SCHULTZ CONSTRUCTION, INC.
 P.O. BOX 2650
 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

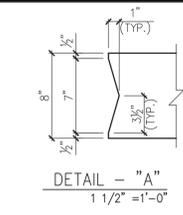
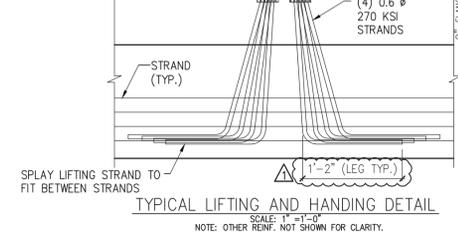
TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM: AAT/RWS JJ/KLT
 JOB NO: 23419-013
 DWG. NO: NB4

Eriksson technologies
 813.989.3317
 TAMPA, FL LRFD.COM
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3" x 0-2" LONG EXPANDED POLYSTYRENE COLLAR. CONTRACTOR SHALL FIELD-CUT LIFTING LOOP, THOROUGHLY CLEAN HOLE & FILL HOLE W/ APPROVED NON-SHRINK GROUT.

Revise as required per contract plans for clear cover, per A/NB1. Add note that states field cut point to match clear cover. Add note to specify epoxy paint cut ends.



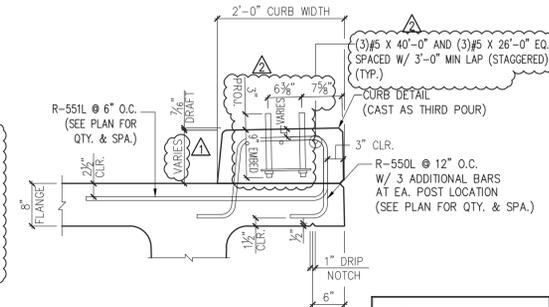
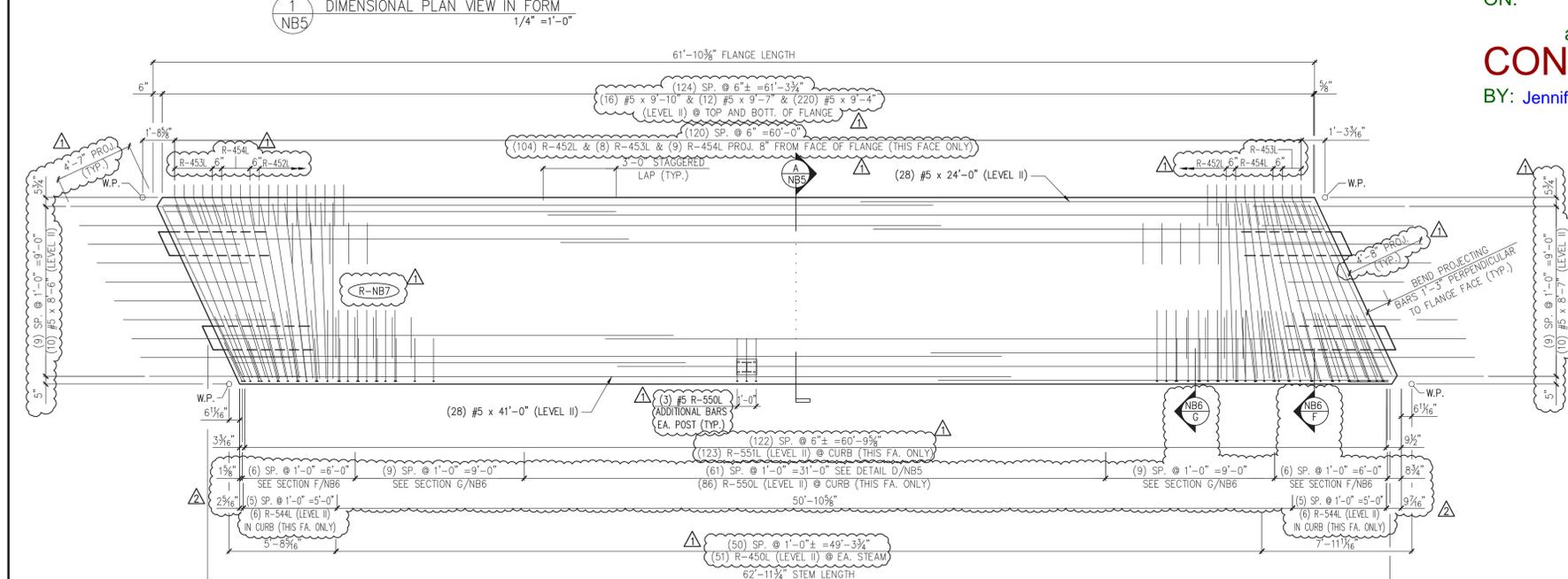
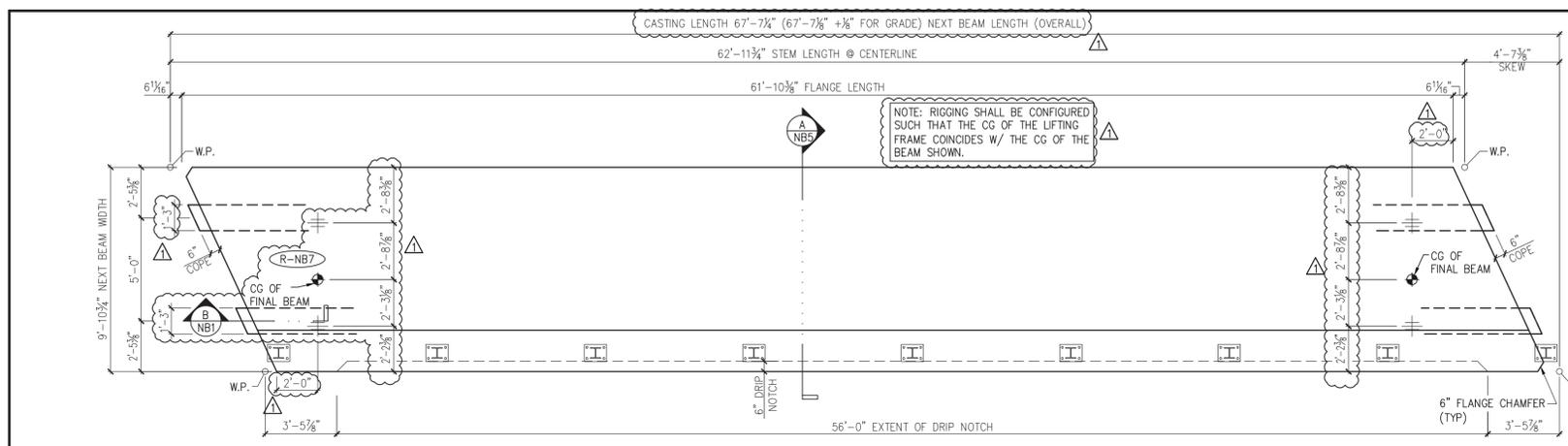
- PRESTRESSING NOTATIONS
- DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
 - ◊ DENOTES STRAIGHT STRANDS TO PROJECT 1'-6" FROM EA. END OF EA. STEM
 - ▲ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
 - ◻ DENOTES STRAIGHT STRANDS TO BE DEBONDED 8'-0" FROM EA. END OF EA. STEM
 - DENOTES STRAIGHT STRANDS TO BE DEBONDED 12'-0" FROM EA. END OF EA. STEM

Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 05/16/2014

DETAIL - "C" (STEM STRAND PATTERN)
1" = 1'-0"

DETENSIONING SCHEDULE
N.T.S.

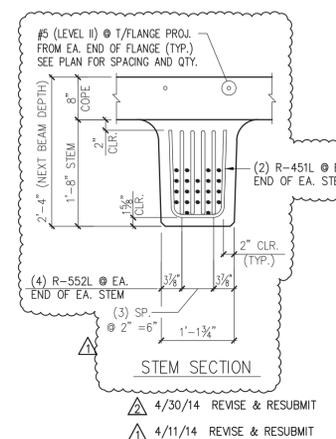
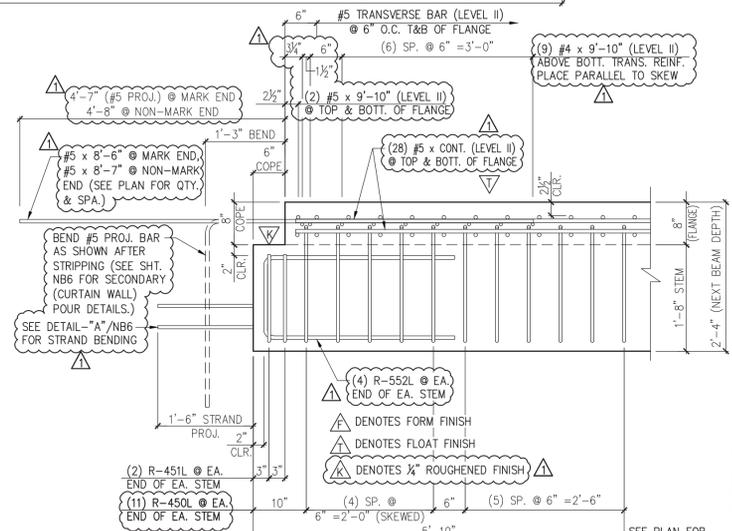
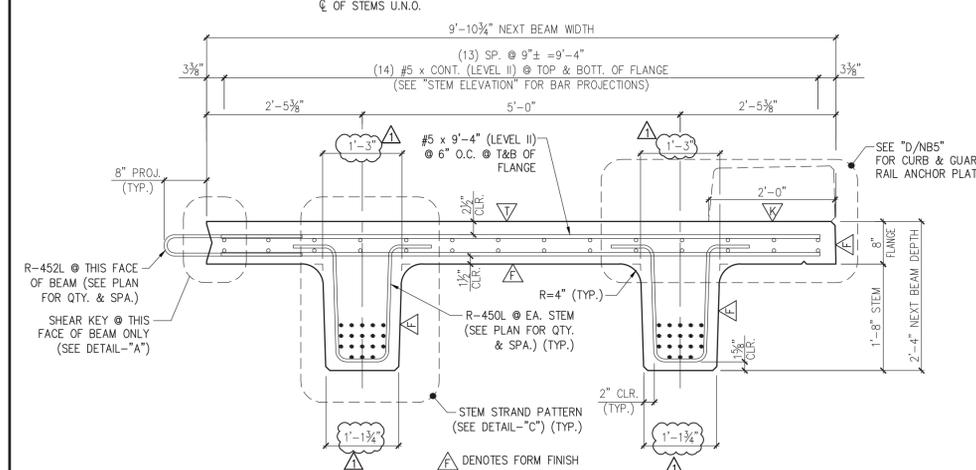
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17	11	15	13	19
27	21	25	23	29
37	31	35	33	39
47	41	45	43	49
57	51	55	53	59



MARK:	R-NB7	QTY.:	1	WT.:	49.3 T	VOL.:	24.33 cy
TOTAL WITH CURTAIN WALLS & CURB -		WT.:	69.2 T	VOL.:	34.16 cy		

MATERIAL LIST / NEXT BEAM

ITEM	MARK	DESCRIPTION	QTY.
1	R-450L	#4 BENT BAR (LEVEL II, DUAL COATED)	146
2	R-451L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
3	R-452L	#4 BENT BAR (LEVEL II, DUAL COATED)	104
4	R-453L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
5	R-454L	#4 BENT BAR (LEVEL II, DUAL COATED)	9
6			
7	R-544L	#5 BENT BAR (LEVEL II, DUAL COATED)	12
8	R-550L	#5 BENT BAR (LEVEL II, DUAL COATED)	89
9	R-551L	#5 BENT BAR (LEVEL II, DUAL COATED)	125
10	R-552L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
11			
12		#4 x 9'-10" (LEVEL II, DUAL COATED)	18
13			
14			
15		#5 x 8'-6" (LEVEL II, DUAL COATED)	10
16		#5 x 8'-7" (LEVEL II, DUAL COATED)	10
17		#5 x 9'-4" (LEVEL II, DUAL COATED)	220
18		#5 x 9'-7" (LEVEL II, DUAL COATED)	12
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20		#5 x 24'-0" (LEVEL II, DUAL COATED)	28
21		#5 x 26'-0" (LEVEL II, DUAL COATED)	3
22		#5 x 40'-0" (LEVEL II, DUAL COATED)	3
23		#5 x 41'-0" (LEVEL II, DUAL COATED)	28
24			
25		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4



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7055 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 57527
Reviewed by: L.J. WESTCOTT
Date: 5/16/2014

CARRARA & SONS INC.
Precast & Prestress Manufacturer
MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

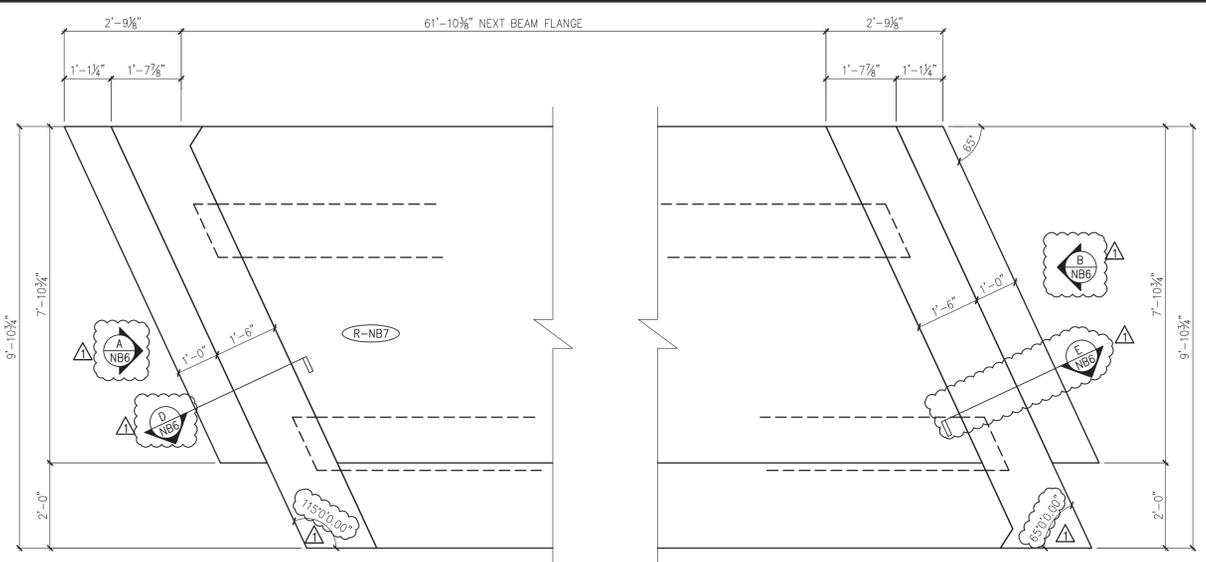
W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2650
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

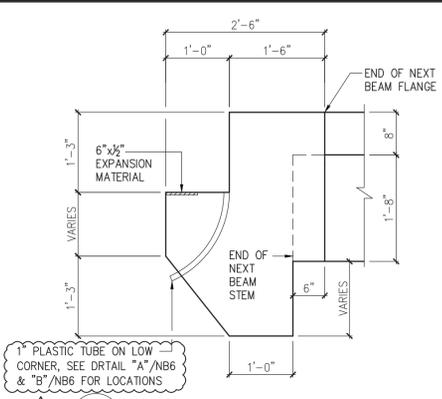
TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS
JOB NO: 23419-013
DWG. NO: NB5

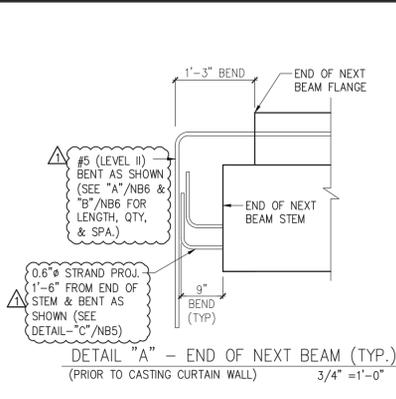
Eriksson technologies
813.989.3317
TAMPA, FL
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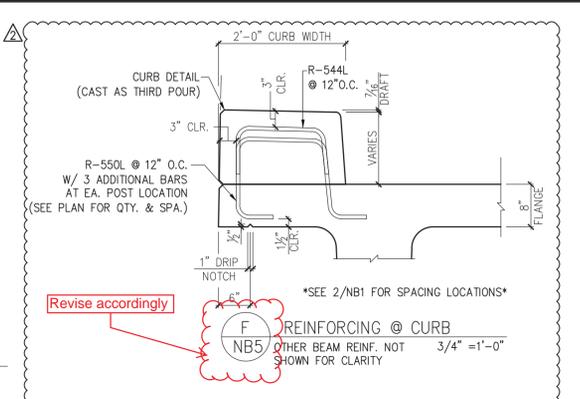
1 CURTAIN WALL PLAN VIEW IN FORM NB6 (CAST AS SECONDARY POUR, AFTER DETENSIONING) 1/2" = 1'-0"



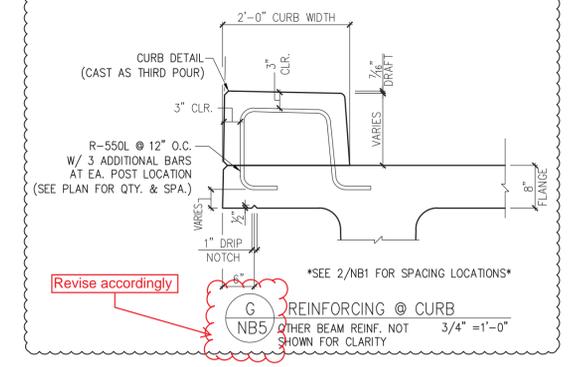
C DIMENSIONAL CURTAIN WALL SECTION NB6 3/4" = 1'-0"



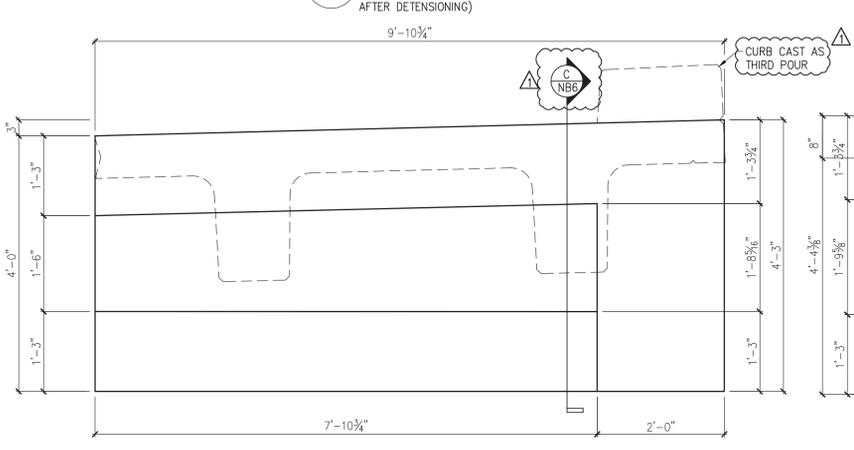
DETAIL 'A' - END OF NEXT BEAM (TYP.) (PRIOR TO CASTING CURTAIN WALL) 3/4" = 1'-0"



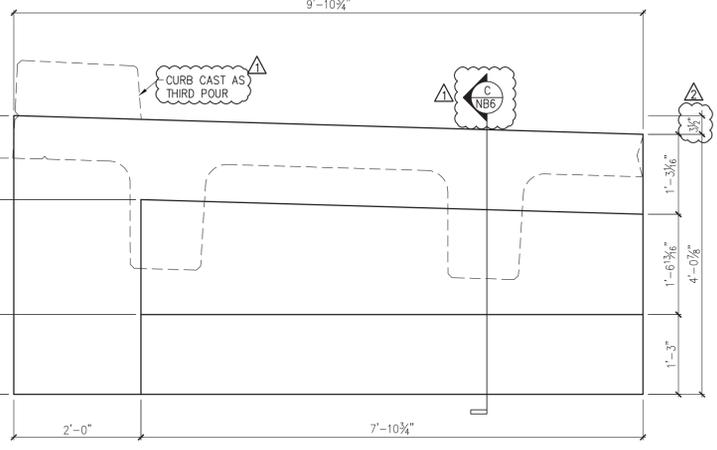
F REINFORCING @ CURB NB5 OTHER BEAM REINF. NOT SHOWN FOR CLARITY 3/4" = 1'-0"



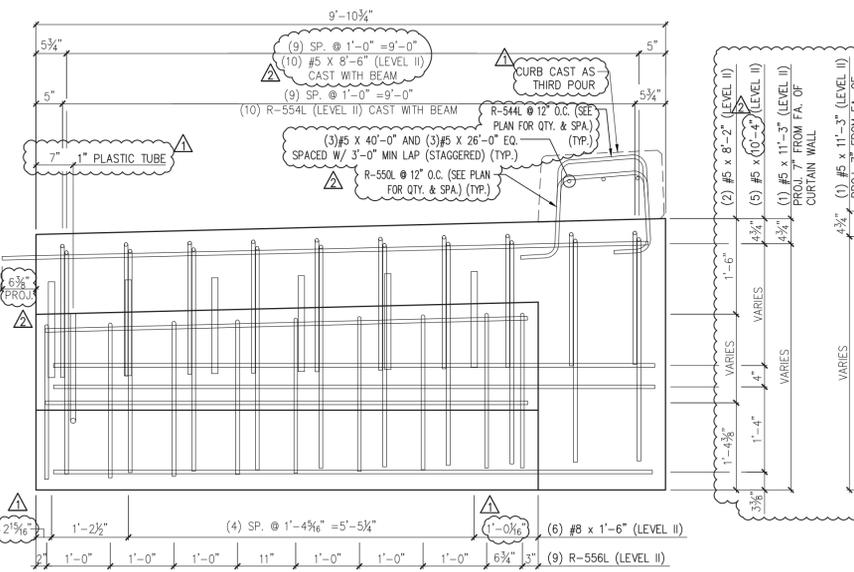
G REINFORCING @ CURB NB5 OTHER BEAM REINF. NOT SHOWN FOR CLARITY 3/4" = 1'-0"



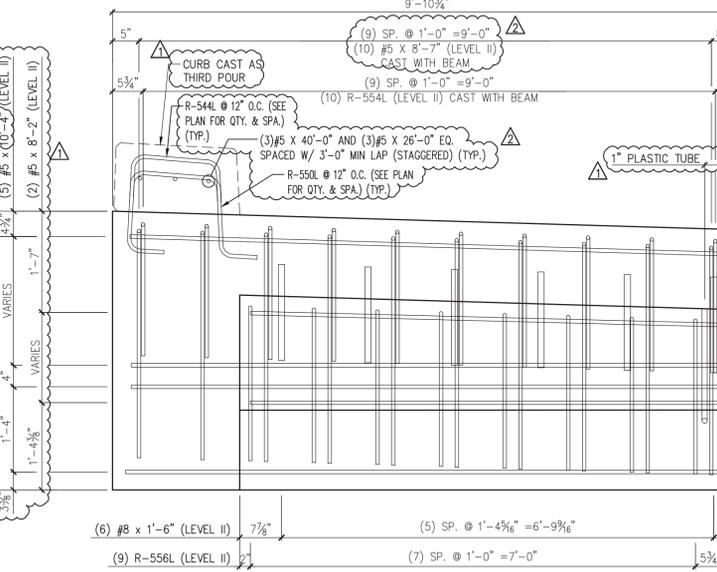
A DIMENSIONAL CURTAIN WALL ELEVATION @ ABUT. #1 NB6 3/4" = 1'-0"



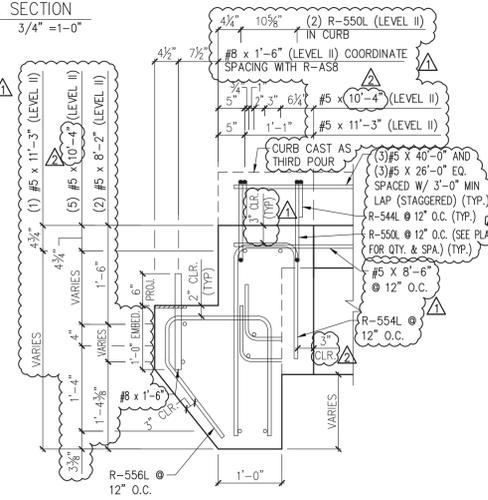
B DIMENSIONAL CURTAIN WALL ELEVATION @ ABUT. #2 NB6 3/4" = 1'-0"



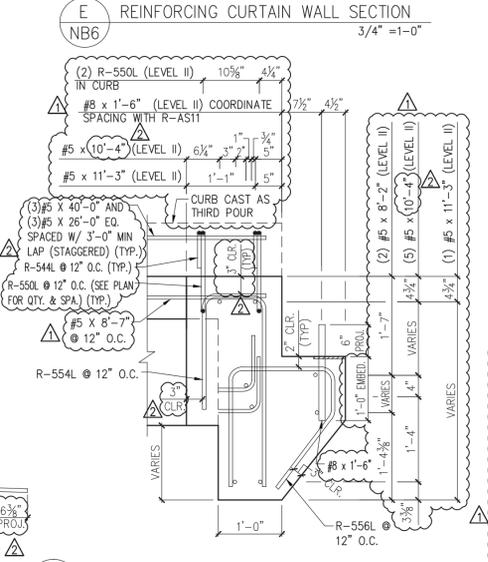
A REINFORCING CURTAIN WALL ELEVATION @ ABUT. #1 NB6 3/4" = 1'-0"



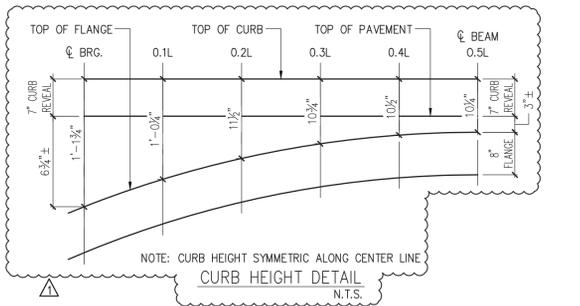
B REINFORCING CURTAIN WALL ELEVATION @ ABUT. #1 NB6 3/4" = 1'-0"



E REINFORCING CURTAIN WALL SECTION NB6 3/4" = 1'-0"



D REINFORCING CURTAIN WALL SECTION NB6 3/4" = 1'-0"



CURB HEIGHT DETAIL N.T.S.

MARK:	R-NB7	QTY.:	1	WT.:	10.9 T	VOL.:	5.39 cy
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MATERIAL LIST / CURTAIN WALLS			
ITEM	MARK	DESCRIPTION	QTY.
1	R-554L	#5 BENT BAR (LEVEL II, DUAL COATED)	20
2	R-556L	#5 BENT BAR (LEVEL II, DUAL COATED)	18
3			
4			
5			
6		#5 X 8'-2" (LEVEL II, DUAL COATED)	4
7		#5 X 10'-4" (LEVEL II, DUAL COATED)	10
8		#5 X 11'-3" (LEVEL II, DUAL COATED)	2
9		#8 X 1'-6" (LEVEL II, DUAL COATED)	12
10			
11			
12		1" PLASTIC TUBE	2
13			
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.

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Vanasse Hangen Brustlin, Inc.
 7056 US Route 7
 North Ferrisburgh, VT 05473
 802.425.7788

Job Number: 57527
 Reviewed By: L.J. WESTCOTT
 Date: 5/16/2014

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2464 CASE STR., WOODBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

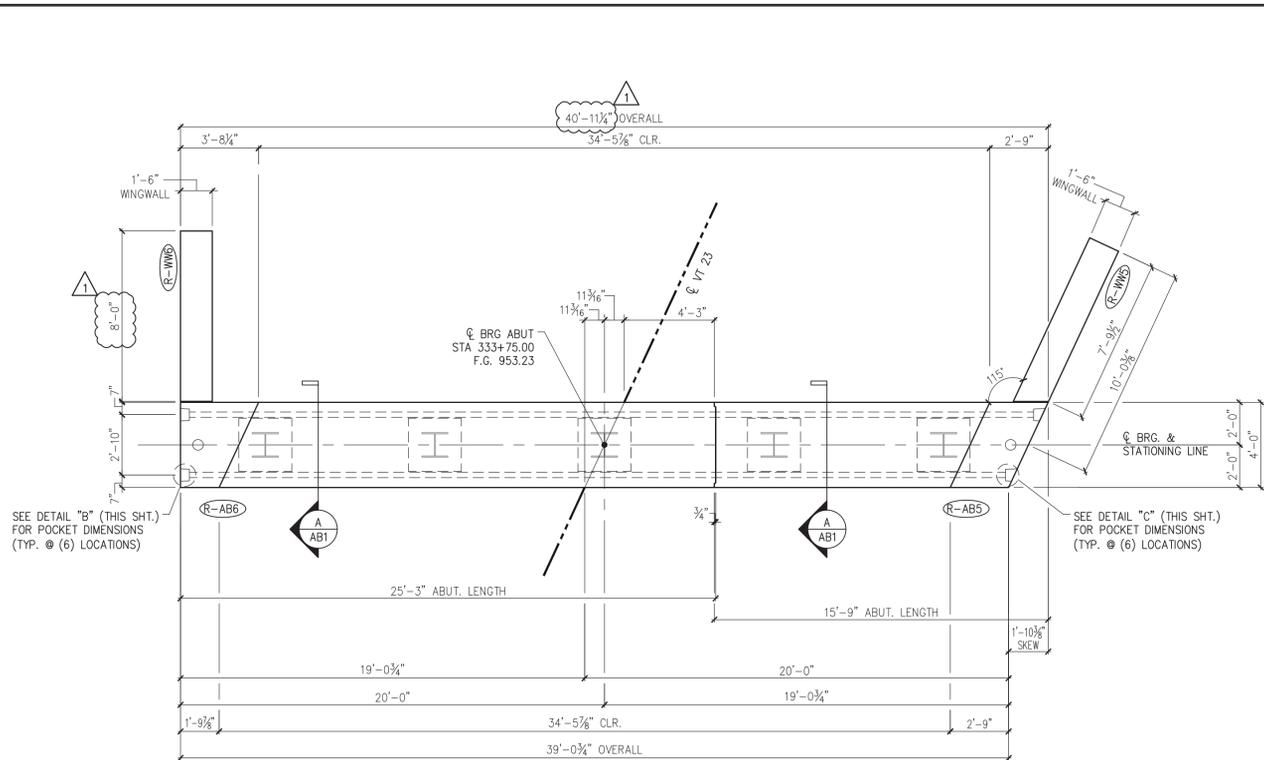
W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2650
 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

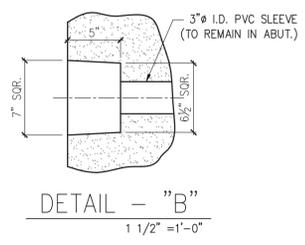
TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM:AAT/RWS JJ/KLT
 JOB NO: 23419-013
 DWG. NO: NB6

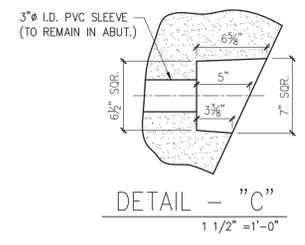
Vermont Agency of Transportation
RECEIVED
 ON: May 9, 2014
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 05/16/2014



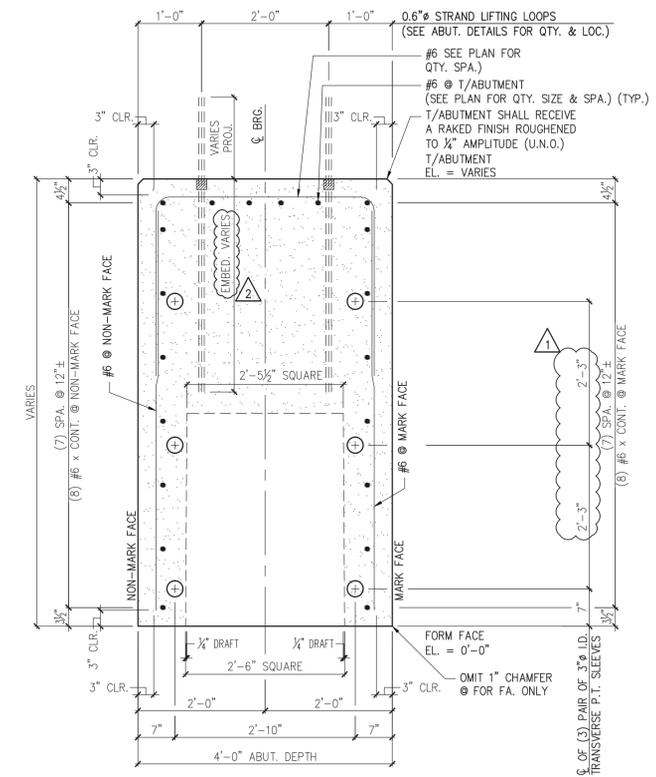
1 ABUTMENT 1 ASSEMBLY PLAN
1/4" = 1'-0"



DETAIL - "B"
1 1/2" = 1'-0"

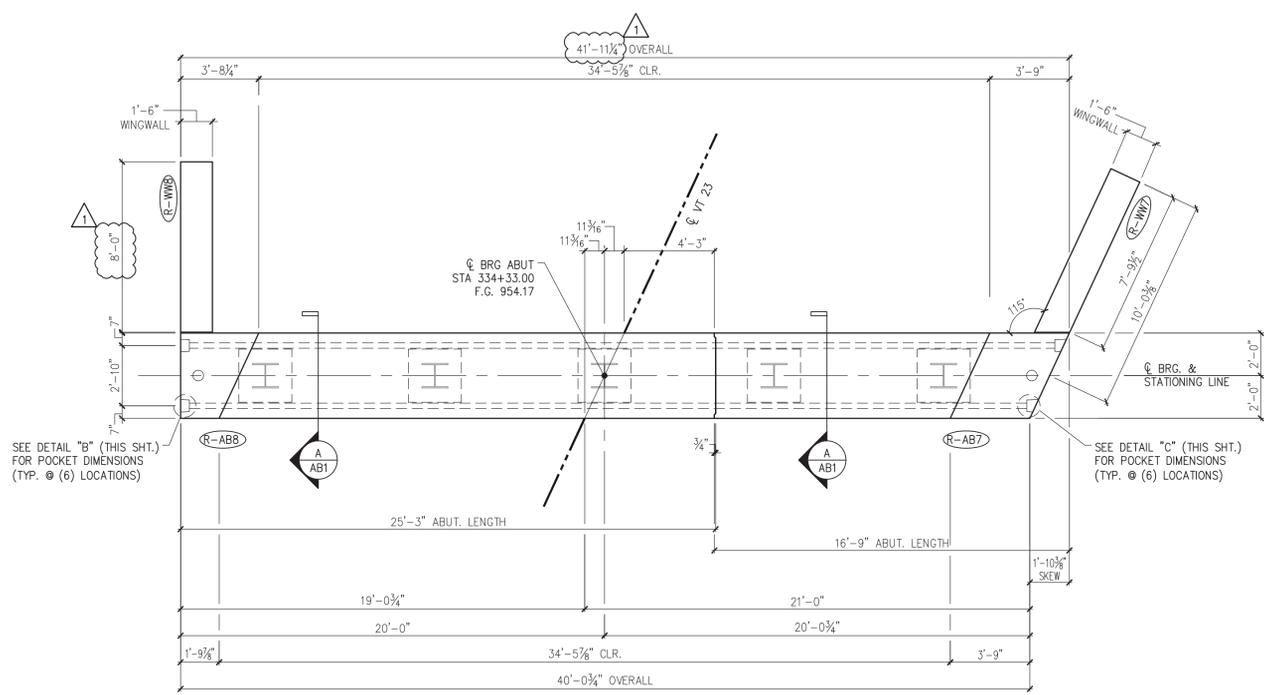


DETAIL - "C"
1 1/2" = 1'-0"



A ABUTMENT SECTION
3/4" = 1'-0"

SHOP NOTE:
ALL EDGES OF ABUTMENT SHALL
RECEIVE A 1" CHAMFER (U.N.O.)



2 ABUTMENT 2 ASSEMBLY PLAN
1/4" = 1'-0"

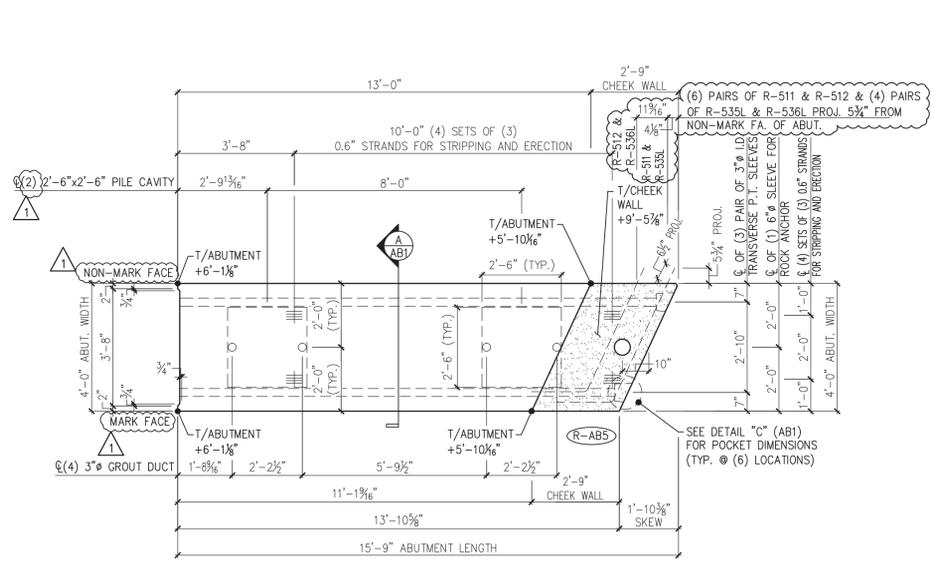
- 4/30/14 REVISE & RESUBMIT
- 4/11/14 REVISE & RESUBMIT

Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 05/16/2014

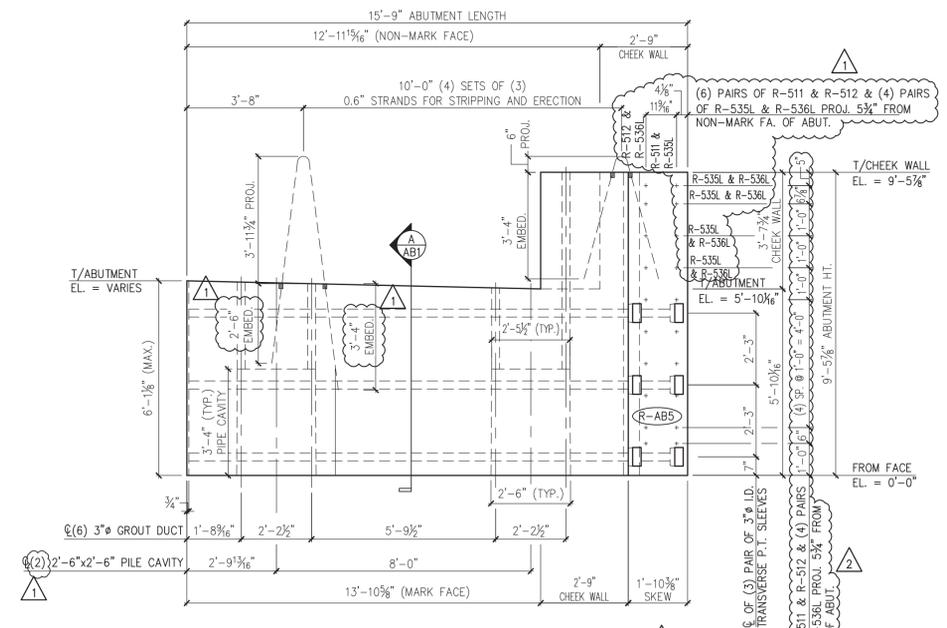
SHOP DRAWING REVIEW	
<input type="checkbox"/> REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.	<input type="checkbox"/> FURNISH AS CORRECTED
<input type="checkbox"/> REJECTED	<input checked="" type="checkbox"/> REVISE AND RESUBMIT
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.	
Vanasse Hangen Brustlin, Inc. <small>7056 US Route 7 North Ferrisburgh, VT 05473 802.425.7788</small>	Job Number: 57527 Reviewed By: J.J. WESTCOTT Date: 5/16/2014

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>	W.M. SCHULTZ CONSTRUCTION, INC. <small>PO BOX 2620 BALLSTON SPA, NY 12020</small>
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)	CHKD: DFTM/AAT/RWS JJ/KLT JOB NO: 23419-013
	PRECAST ABUTMENT PLAN, SECTION & DETAILS	DWG. NO: AB1

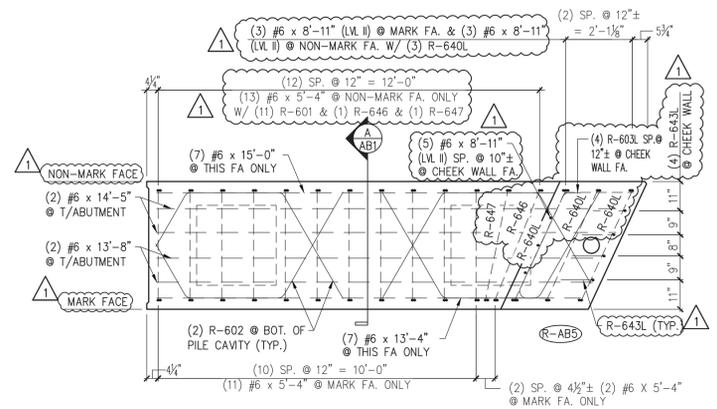
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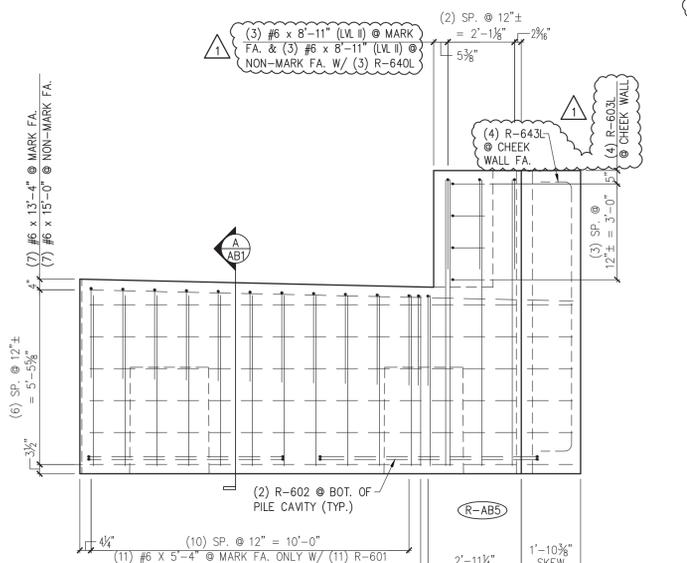
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

Vermont Agency of Transportation
RECEIVED
 ON: **May 9, 2014**
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 05/16/2014

SHOP DRAWING REVIEW

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Vanasse Hangen Brustlin, Inc.
 7056 US Route 7
 North Ferrisburgh, VT 05473
 802.425.7768

Job Number: 325327
 Reviewed By: J.J. WESTCOTT
 Date: 5/16/2014

MARK:	R-AB5	QTY.:	1	WT.:	26.3 T	VOL.:	12.99 cy
ITEM	MARK	MATERIAL LIST / ABUTMENT		QTY.			
1	R-511	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6				
2	R-512	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6				
3	R-535L	#5 BENT BAR (LEVEL II - DUAL COATED)	4				
4	R-536L	#5 BENT BAR (LEVEL II - DUAL COATED)	4				
5							
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	11				
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	4				
8	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)	4				
9	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	3				
10	R-643L	#6 BENT BAR (LEVEL II - DUAL COATED)	4				
11	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	3				
12	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1				
13	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1				
14							
15							
16		#6 x 5'-4" (LEVEL I - BLACK REINFORCEMENT)	26				
17		#6 x 8'-11" (LEVEL I - BLACK REINFORCEMENT)	11				
18		#6 x 13'-4" (LEVEL I - BLACK REINFORCEMENT)	7				
19		#6 x 13'-8" (LEVEL I - BLACK REINFORCEMENT)	2				
20		#6 x 14'-5" (LEVEL I - BLACK REINFORCEMENT)	2				
21		#6 x 15'-0" (LEVEL I - BLACK REINFORCEMENT)	7				
22							
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4				

4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2464 CASE STR., WOODLERY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

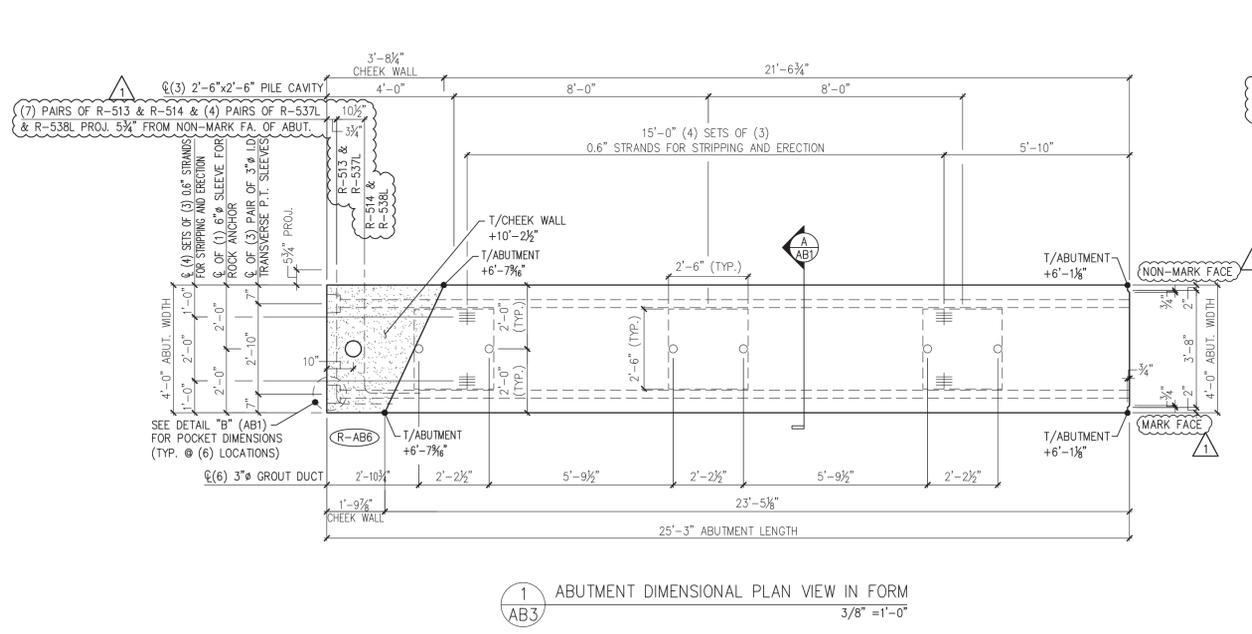
W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2620
 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

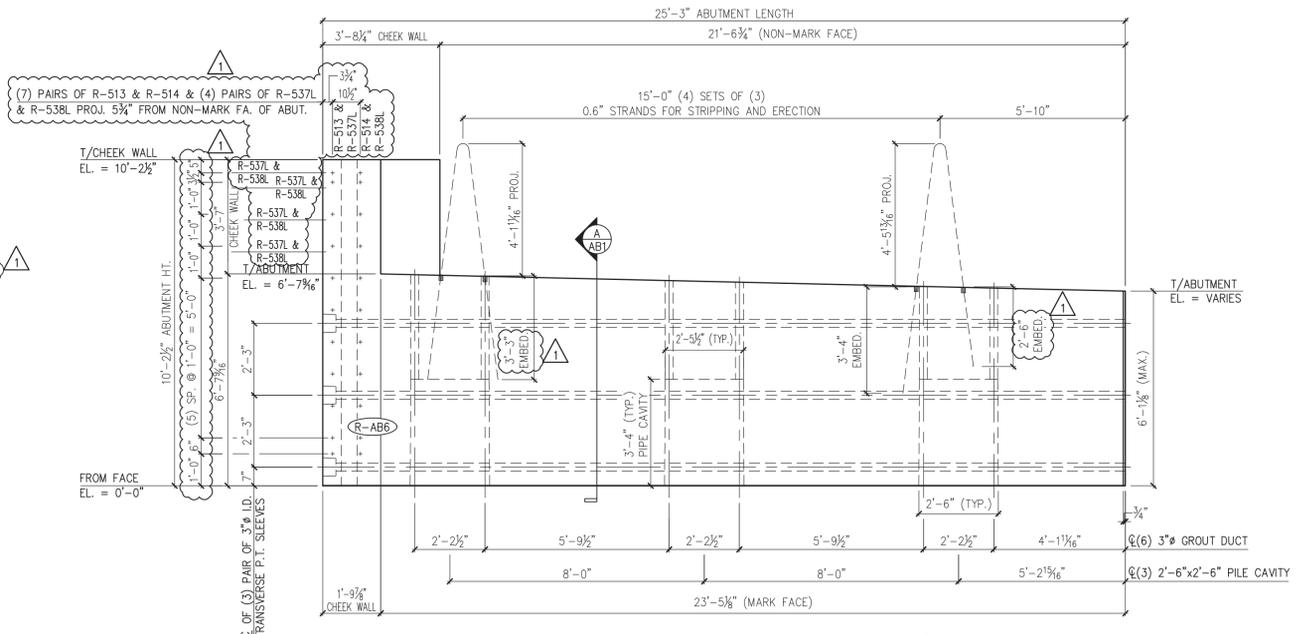
TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM/AAT/RWS
 JJ/KLT
 JOB NO: 23419-013
 DWG. NO: AB2

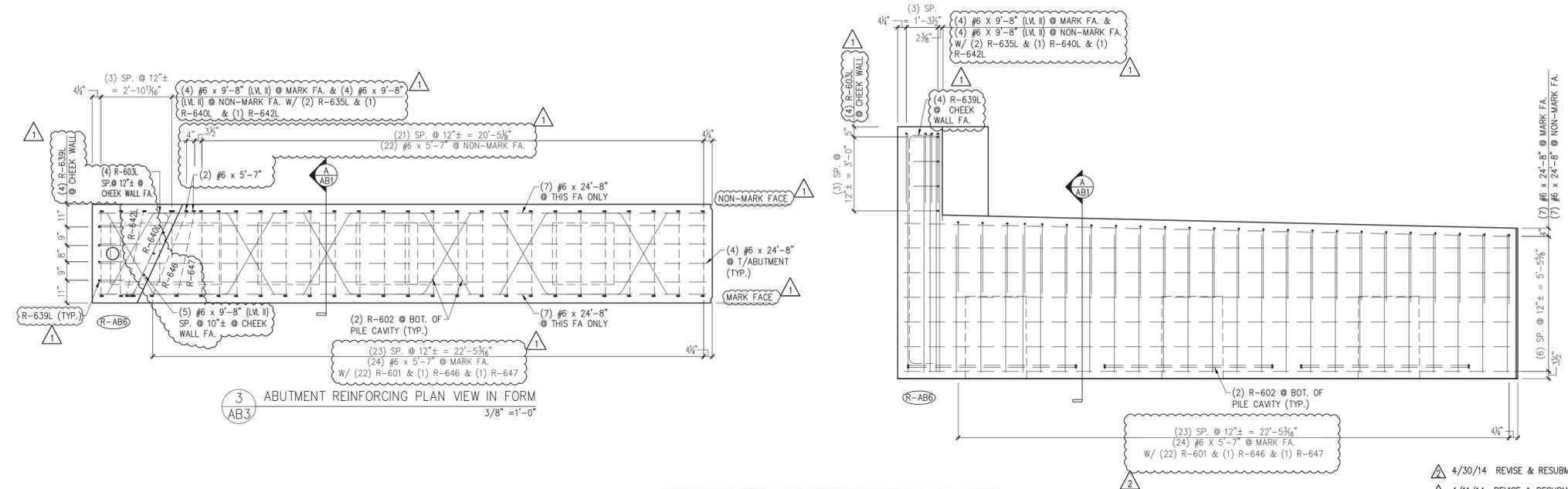
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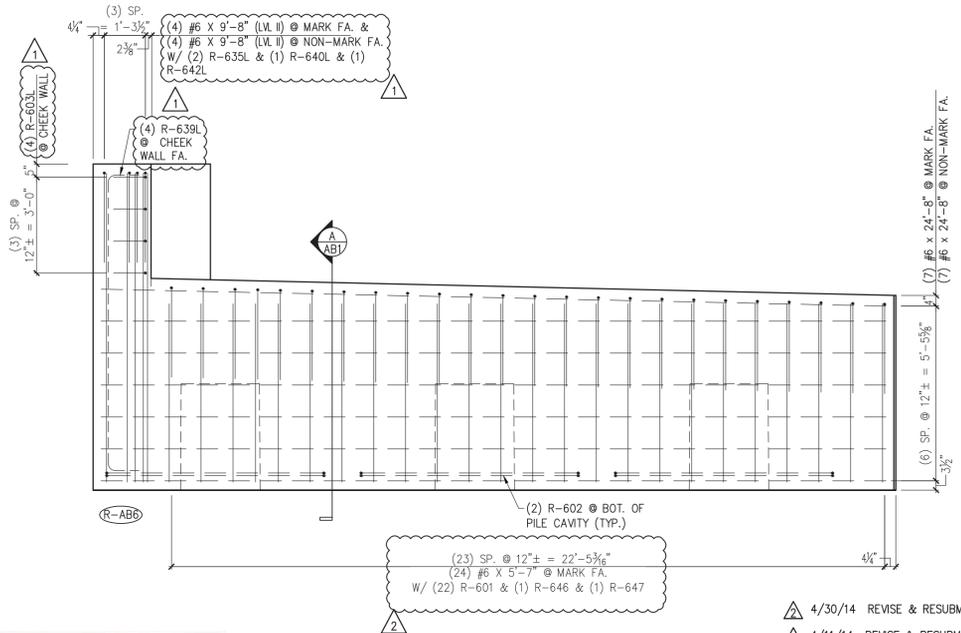
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

MARK:	R-AB6	QTY.:	1	WT.:	46.8 T	VOL.:	21.10 cy
MATERIAL LIST / ABUTMENT							
ITEM	MARK	DESCRIPTION				QTY.	

1	R-513	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	7
2	R-514	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	7
3	R-537L	#5 BENT BAR (LEVEL II - DUAL COATED)	4
4	R-538L	#5 BENT BAR (LEVEL II - DUAL COATED)	4
5			
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	24
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6
8	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
9	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)	4
10	R-635L	#6 BENT BAR (LEVEL II - DUAL COATED)	2
11	R-639L	#6 BENT BAR (LEVEL II - DUAL COATED)	4
12	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	1
13	R-642L	#6 BENT BAR (LEVEL II - DUAL COATED)	1
14	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
15	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
16	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
17			
18			
19		#6 x 5'-7" (LEVEL I - BLACK REINFORCEMENT)	48
20		#6 x 9'-8" (LEVEL I - BLACK REINFORCEMENT)	13
21		#6 x 24'-8" (LEVEL I - BLACK REINFORCEMENT)	18
22			
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4

Vermont Agency of Transportation
RECEIVED
 ON: **May 9, 2014**
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 05/16/2014

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Vanasse Hangen Brustlin, Inc.
 7056 US Route 7
 North Ferrisburgh, VT 05473
 802-425-7798

Job Number: 52527
 Reviewed By: J.J. WESTCOTT
 Date: 5/16/2014

Eriksson technologies
 813.989.3317
 TAMPA, FL LRFD.COM
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APPROVAL STAMP:
 4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2464 CASE STR., WOODBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

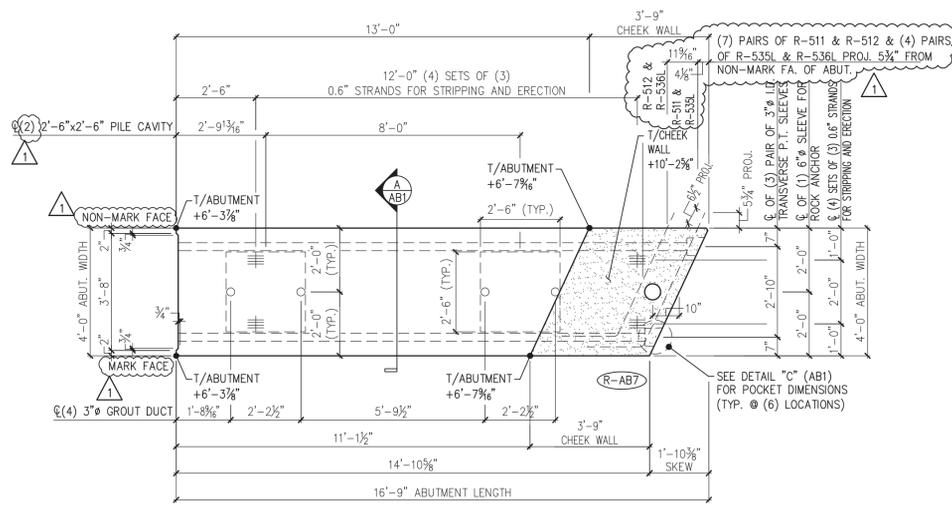
W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2650
 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

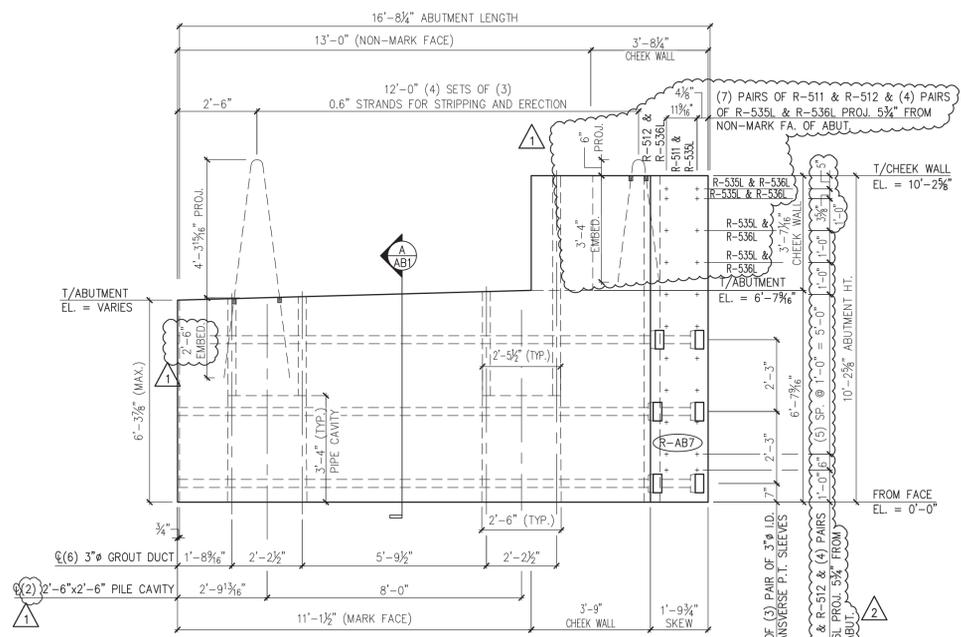
TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM/AAT/RWS
 JJ/KLT
 JOB NO: 23419-013
 DWG. NO: AB3

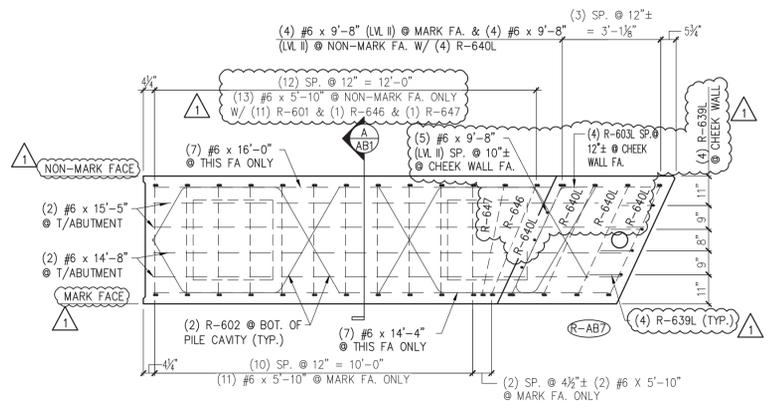
PRECAST ABUTMENT DETAILS



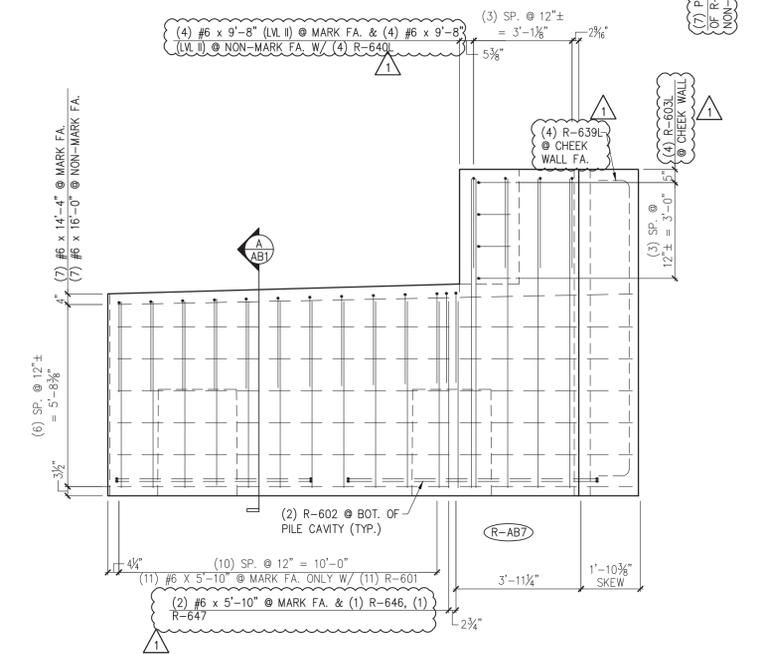
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

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Vanasse Hangen Brustlin, Inc.
7056 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 52527
Reviewed By: J.L. WESTCOTT
Date: 5/16/2014

MATERIAL LIST / ABUTMENT							
MARK:	R-AB7	QTY.:	1	WT.:	31.7 T	VOL.:	15.65 cy
ITEM	MARK	DESCRIPTION	QTY.				
1	R-511	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	7				
2	R-512	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	7				
3	R-535L	#5 BENT BAR (LEVEL II - DUAL COATED)	4				
4	R-536L	#5 BENT BAR (LEVEL II - DUAL COATED)	4				
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	11				
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	4				
8	R-603L	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	4				
9	R-639L	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	4				
10	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	4				
11	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	4				
12	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1				
13	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1				
15		#6 x 5'-10" (LEVEL I - BLACK REINFORCEMENT)	26				
16		#6 x 9'-8" (LEVEL I - BLACK REINFORCEMENT)	13				
17		#6 x 14'-4" (LEVEL I - BLACK REINFORCEMENT)	7				
18		#6 x 14'-8" (LEVEL I - BLACK REINFORCEMENT)	2				
19		#6 x 15'-5" (LEVEL I - BLACK REINFORCEMENT)	2				
20		#6 x 16'-0" (LEVEL I - BLACK REINFORCEMENT)	7				

4/30/14 REVISE & RESUBMIT
4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., WOODBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

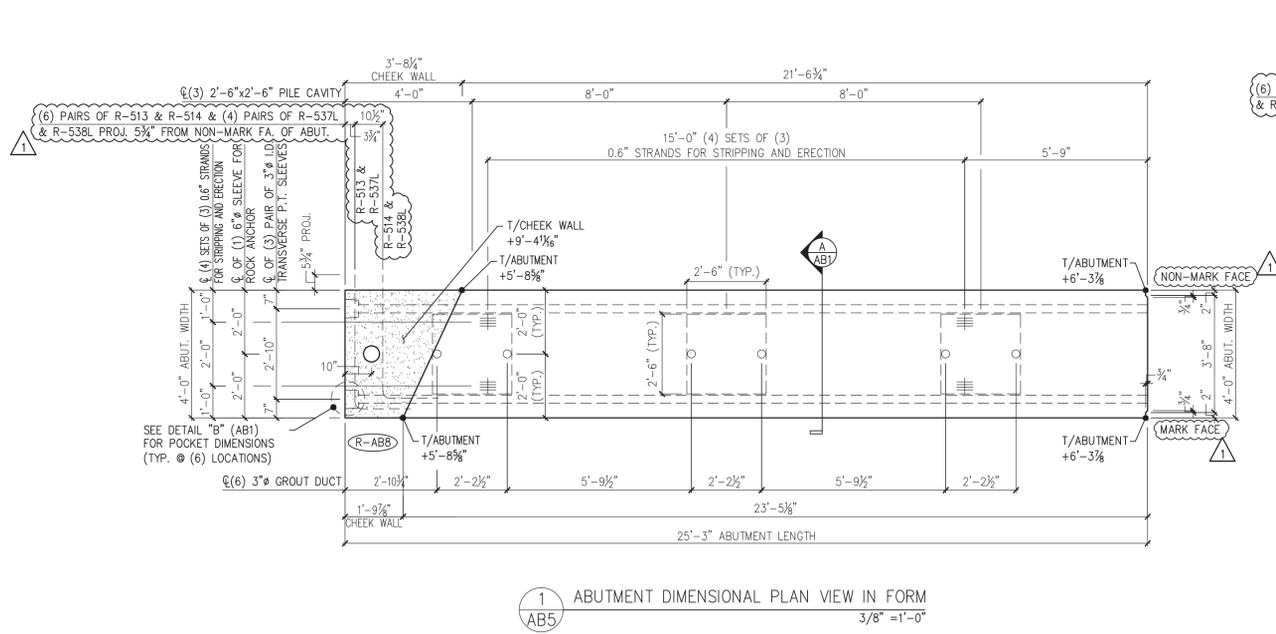
W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2620
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

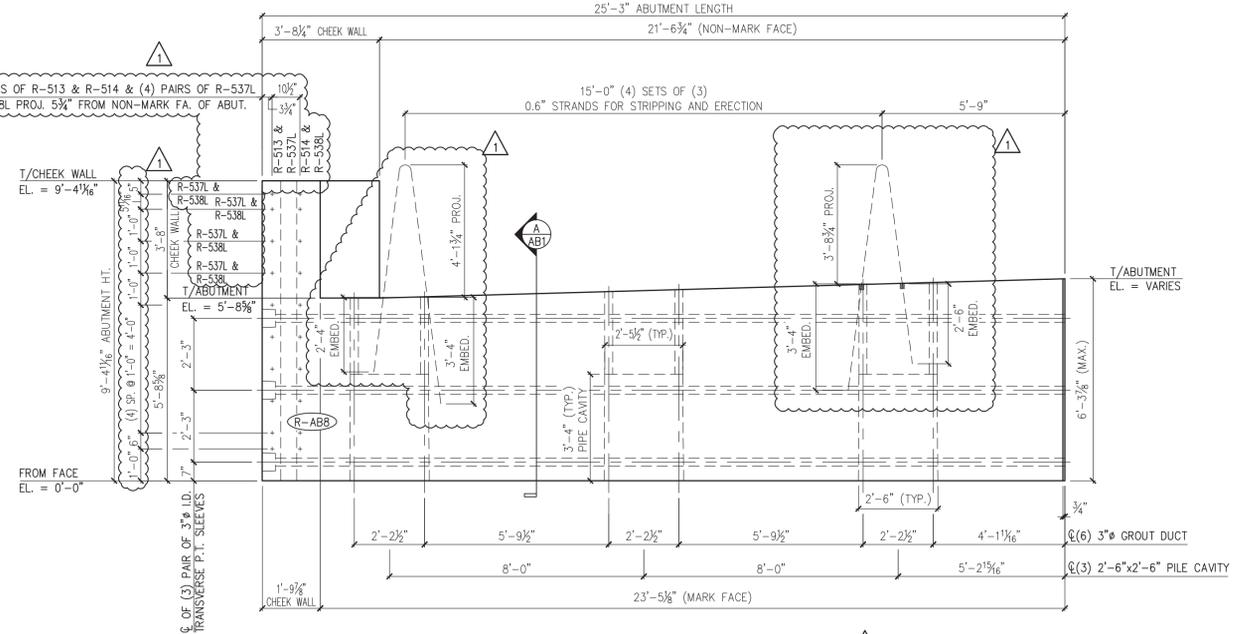
TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS
JJ/KLT
JOB NO: 23419-013
DWG. NO: AB4

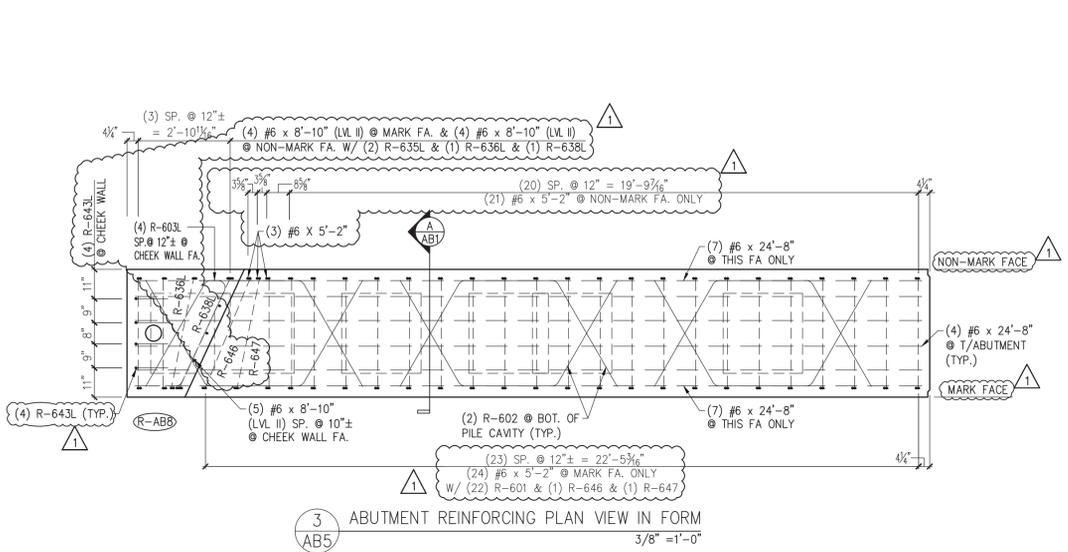
Eriksson technologies
813.989.3317
TAMPA, FL LRFD.COM
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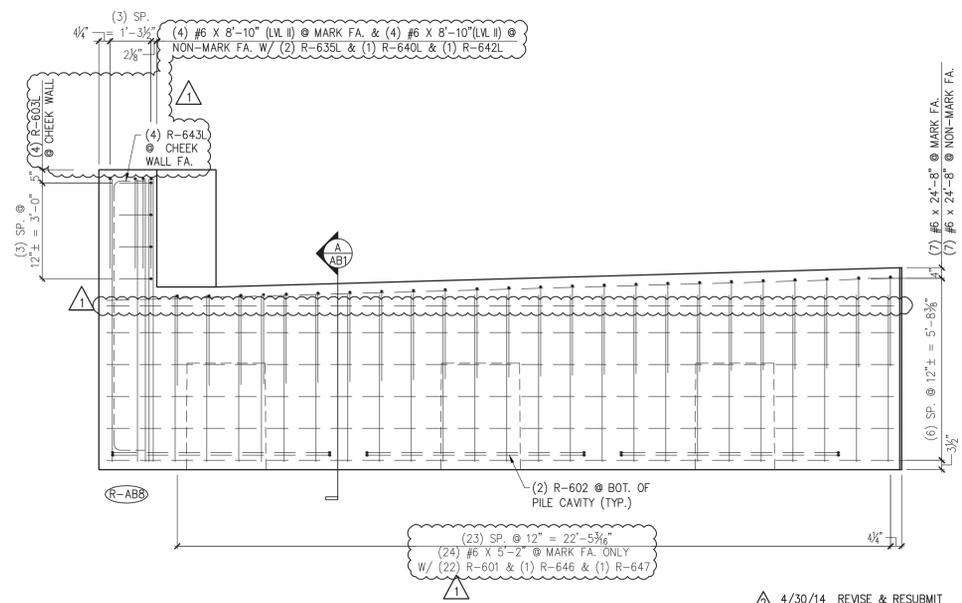
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

MARK: R-AB8		QTY.: 1	WT.: 43.7 T	VOL.: 21.57 cy
MATERIAL LIST / ABUTMENT				
ITEM	MARK	DESCRIPTION	QTY.	
1	R-513	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6	
2	R-514	#5 BENT BAR (LEVEL II - BLACK REINFORCEMENT)	6	
3	R-537L	#5 BENT BAR (LEVEL II - DUAL COATED)	4	
4	R-538L	#5 BENT BAR (LEVEL II - DUAL COATED)	4	
5				
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	22	
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6	
8	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)	4	
8	R-635L	#6 BENT BAR (LEVEL II - DUAL COATED)	2	
8	R-636L	#6 BENT BAR (LEVEL II - DUAL COATED)	1	
8	R-638L	#6 BENT BAR (LEVEL II - DUAL COATED)	1	
9	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	4	
10	R-642L	#6 BENT BAR (LEVEL II - DUAL COATED)	1	
11	R-643L	#6 BENT BAR (LEVEL II - DUAL COATED)	1	
12	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
13	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
14	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
15				
16		#6 x 5'-2" (LEVEL I - BLACK REINFORCEMENT)	48	
17		#6 x 8'-10" (LEVEL I - BLACK REINFORCEMENT)	13	
18		#6 x 24'-8" (LEVEL I - BLACK REINFORCEMENT)	18	
19				
20		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4	

Vermont Agency of Transportation
RECEIVED
 ON: **May 9, 2014**
 and Checked for
CONFORMANCE
 BY: **Jennifer Fitch** DATE: **05/16/2014**

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

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Vanasse Hangen Brustlin, Inc.
 7050 LIS Route 7
 North Ferrisburgh, VT 05473
 802-425-7798

Job Number: 57527
 Reviewed By: **L.J. WESTCOTT**
 Date: 5/16/2014

4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2464 CASE STR., WOODBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2620
 BALLSTON SPA, NY 12020

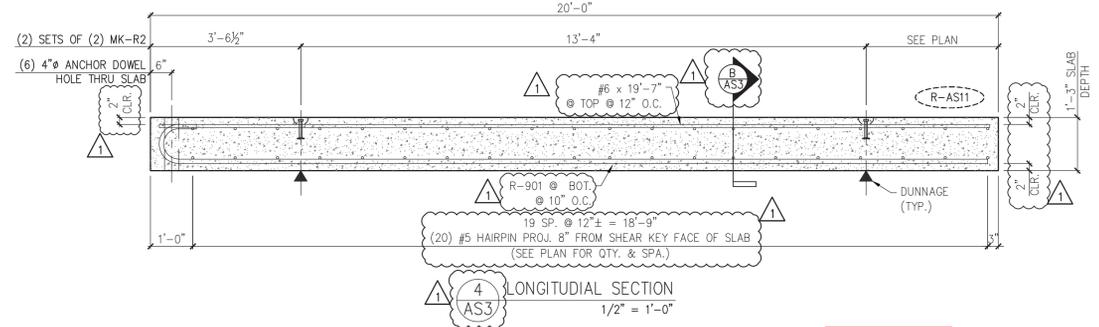
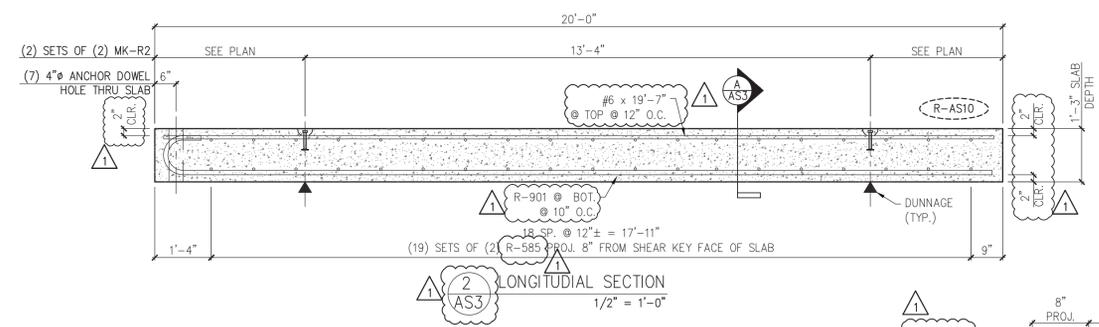
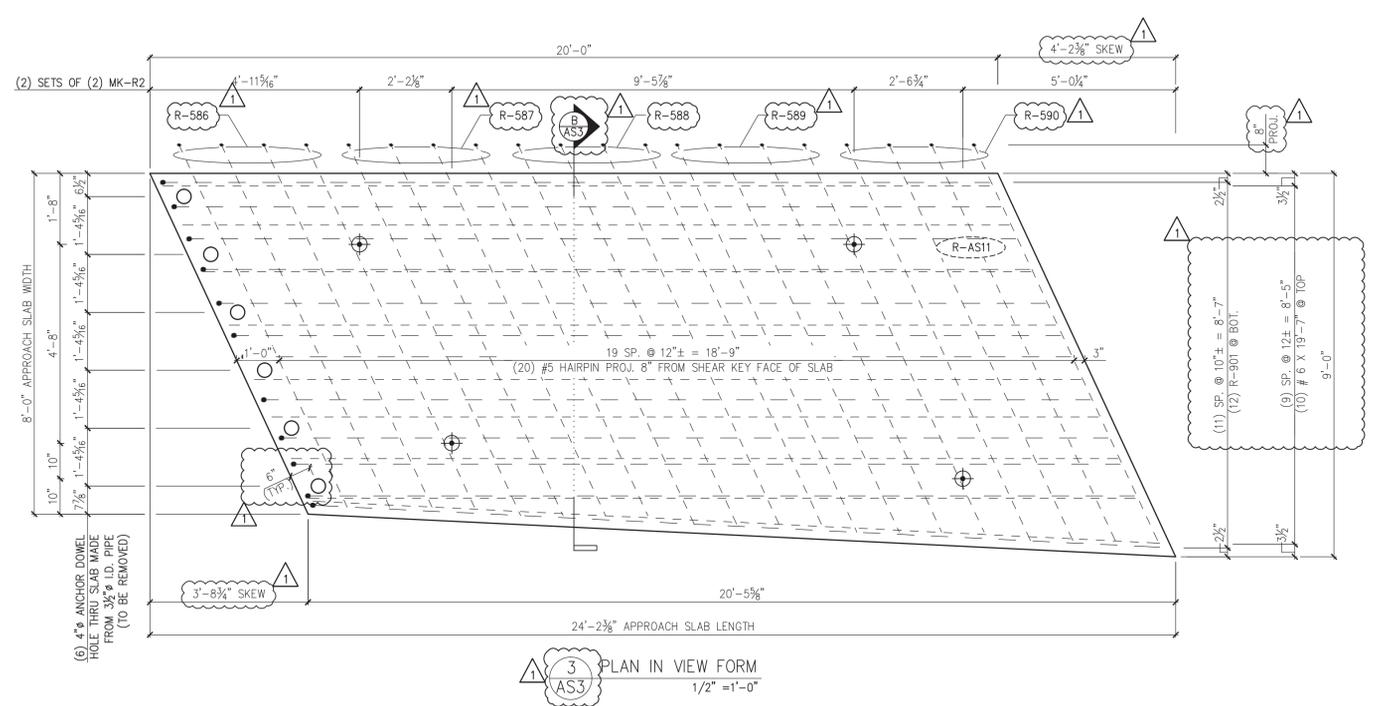
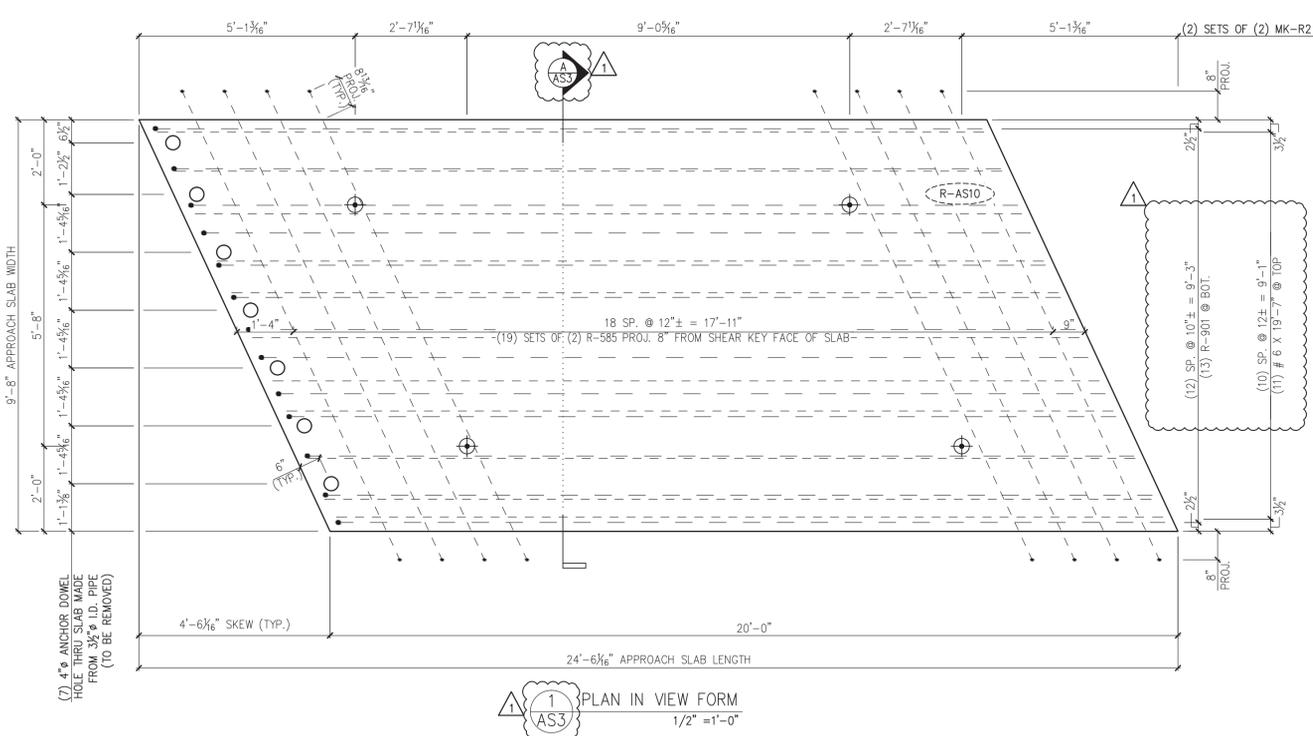
STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM: AAT/RWS
 JJ/KLT
 JOB NO: 23419-013
 DWG. NO: AB5

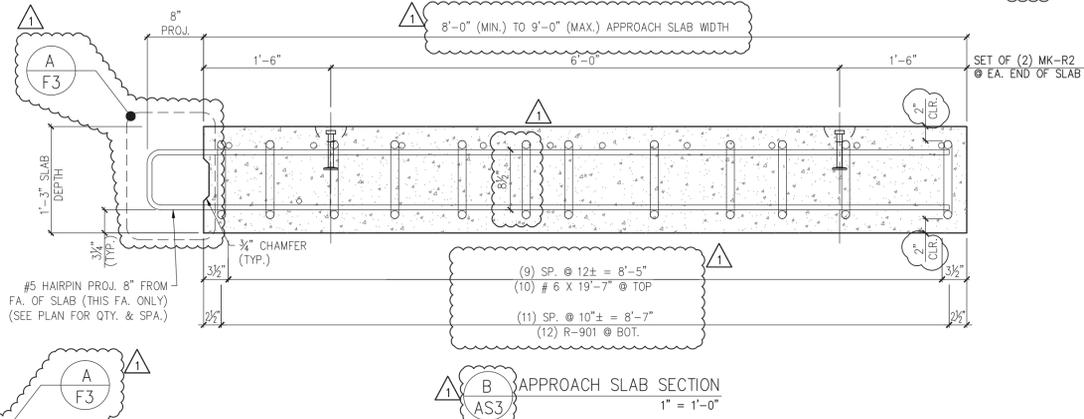
PRECAST ABUTMENT DETAILS

Eriksson technologies
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PER THE RFI RESPONSE DATED MAY 8 2014:
FABRICATOR SHALL ROTATE THE #9 BARS TO PROVIDE THE REQUIRED 3\"/>

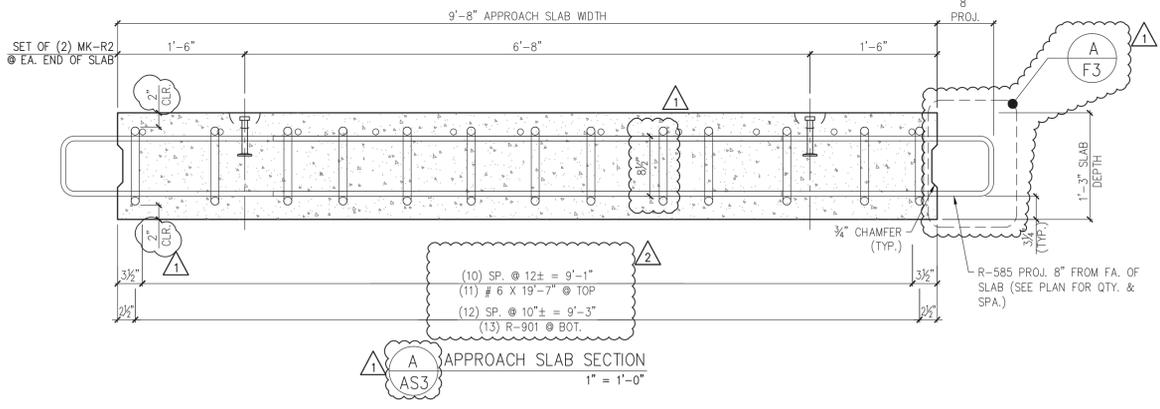
Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: **Jennifer Fitch** DATE: **05/16/2014**



Confirm quantity with A/ASS

MARK:	R-AS10	QTY.:	1	WT.:	18.2 T	VOL.:	8.95 cy
MARK:	R-AS11	QTY.:	1	WT.:	16.0 T	VOL.:	7.87 cy

MATERIAL LIST / APPROACH SLAB			QTY./WING WALL	
ITEM	MARK	DESCRIPTION	R-AS10	R-AS11
1	R-585	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0	4
2	R-586	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0	4
3	R-587	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0	4
4	R-588	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0	4
5	R-589	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0	4
6	R-590	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0	4
7				
8		#6 x 19'-7" (LEVEL I, BLACK REINFORCEMENT)	9	10
8				
8	R-901	#9 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	13	12
8				
8	MK-R2	8T x 10" SWIFT LIFT LIFTER	4	4



SHOP DRAWING REVIEW

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REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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Yanase Hangen Brustlin, Inc.
7056 US Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 52527
Reviewed by: L.J. WESTCOTT
Date: 5/16/2014

4/30/14 REVISE & RESUBMIT
4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
244 CASE STR., MOOREBURGH, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2620
BALLSTON SPA, NY 12020

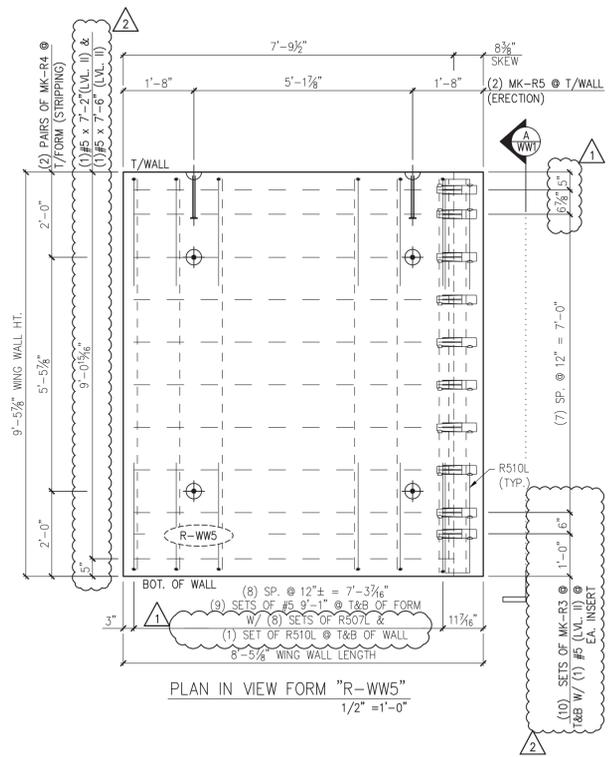
STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

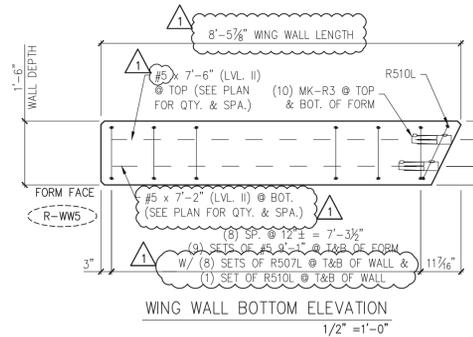
DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM: AAT/RWS
JJ/KLT
JOB NO: 23419-013
DWG. NO: AS3

PRECAST APPROACH SLAB DETAILS

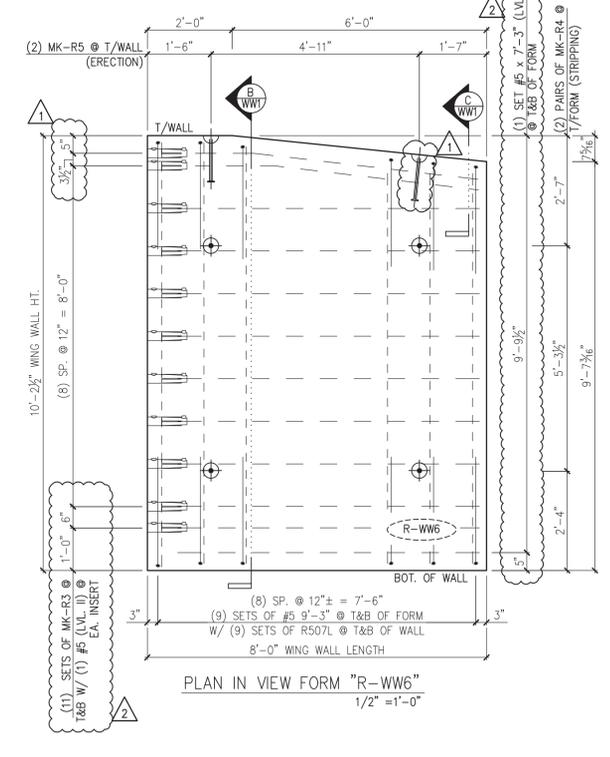
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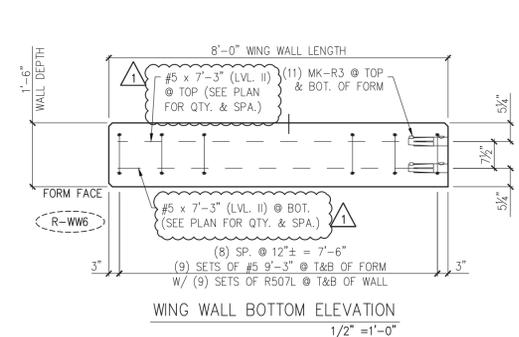
PLAN IN VIEW FORM "R-WW5"
1/2" = 1'-0"



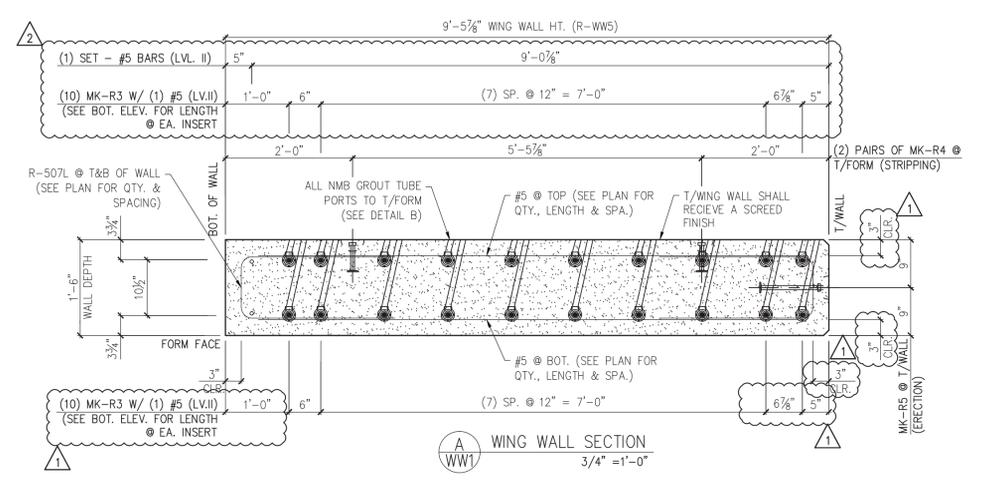
WING WALL BOTTOM ELEVATION
1/2" = 1'-0"



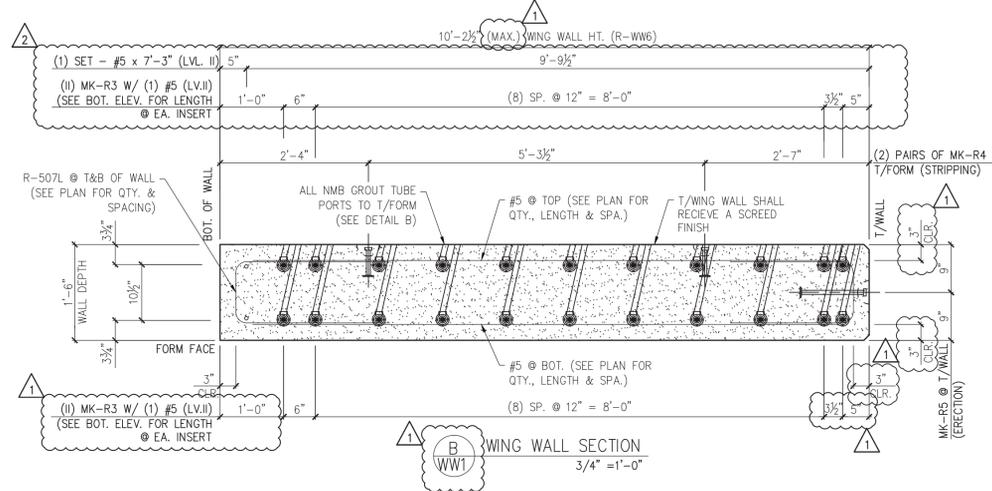
PLAN IN VIEW FORM "R-WW6"
1/2" = 1'-0"



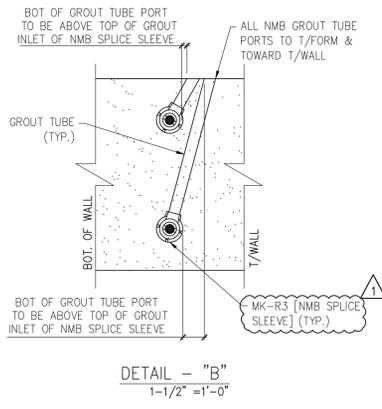
WING WALL BOTTOM ELEVATION
1/2" = 1'-0"



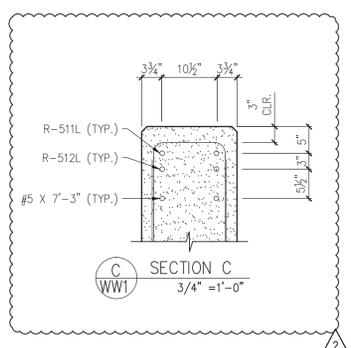
WING WALL SECTION
3/4" = 1'-0"



WING WALL SECTION
3/4" = 1'-0"



DETAIL - "B"
1-1/2" = 1'-0"



SECTION C
3/4" = 1'-0"

SHOP DRAWING REVIEW

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VHB Vanasse Hangen Brustlin, Inc. Job Number: 52527
7056 US Route 7 North Ferrisburgh, VT 05473 Reviewed by: J.L. WESTCOTT
802.425.7788 Date: 5/16/2014

MARK: R-WW5	QTY.: 1	WT.: 8.8 T	VOL.: 4.30 cy
MARK: R-WW6	QTY.: 1	WT.: 9.0 T	VOL.: 4.44 cy

MATERIAL LIST / WING WALL				
ITEM	MARK	DESCRIPTION	QTY./WING WALL	
			R-WW5	R-WW6
1	R-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	16	18
2	R-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	0
3	R-511L	#5 BENT BAR (LEVEL II, DUAL COATED)	0	2
4	R-512L	#5 BENT BAR (LEVEL II, DUAL COATED)	0	2
5				
6				
7		#5 x 7'-2" (LEVEL II, DUAL COATED)	11	0
8		#5 x 7'-3" (LEVEL II, DUAL COATED)	0	20
9		#5 x 7'-6" (LEVEL II, DUAL COATED)	11	0
10		#5 x 9'-1" (LEVEL II, DUAL COATED)	18	0
11		#5 x 9'-3" (LEVEL II, DUAL COATED)	0	18
12				
13				
14	MK-R3	NMB SPLICE SLEEVE #5 U-Y(PC) (EPOXY COATED)	20	22
15	MK-R4	4T x 9 1/2" SWIFT LIFT LIFTER	4	4
16	MK-R5	20T x 19 3/4" SWIFT LIFT LIFTER	2	2

4/30/14 REVISE & RESUBMIT
4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

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

W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2650 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS JJ/KLT
JOB NO: 23419-013
DWG. NO: WW1

Eriksson technologies 813.989.3317
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Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 05/16/2014

Vermont Agency of Transportation
RECEIVED
 ON: **May 9, 2014**
 and Checked for
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 BY: Jennifer Fitch DATE: 05/16/2014

SHOP DRAWING REVIEW

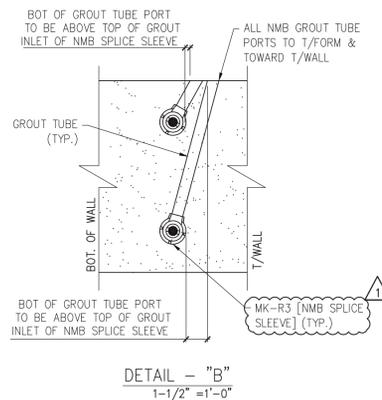
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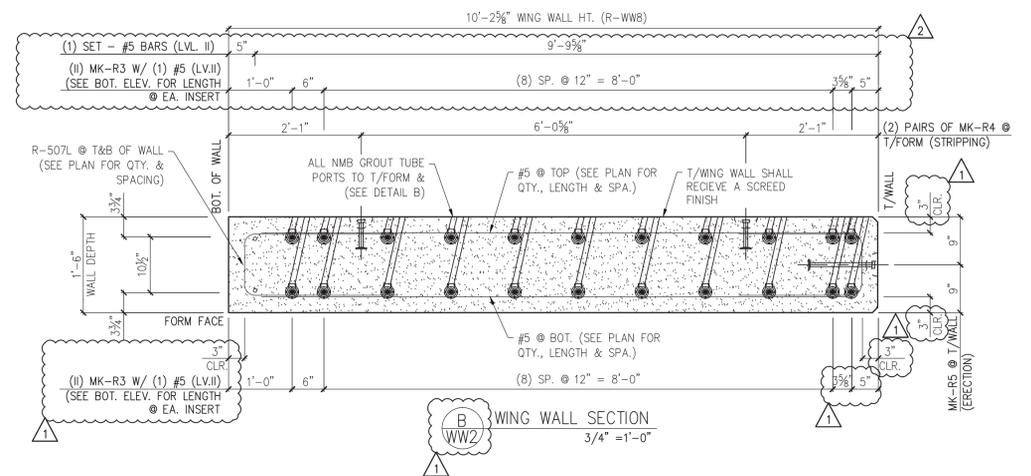
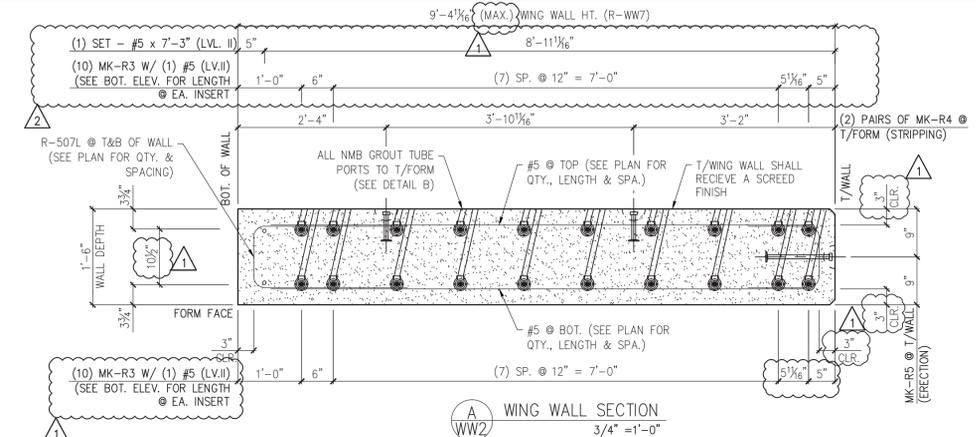
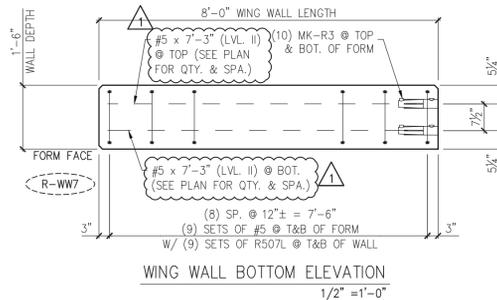
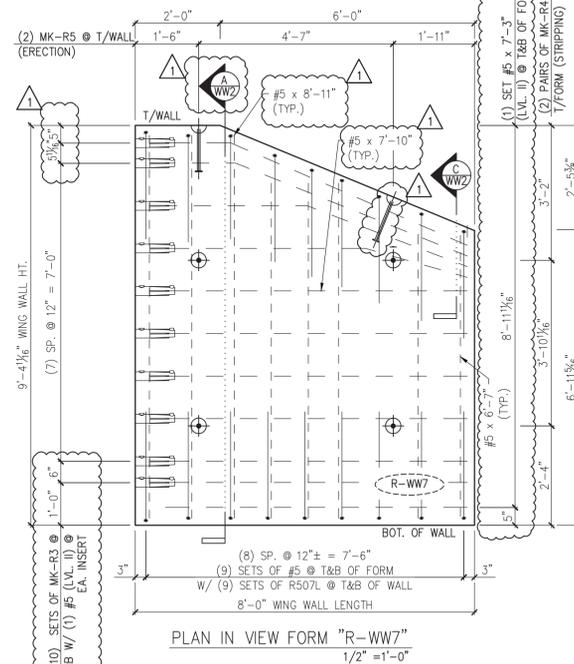
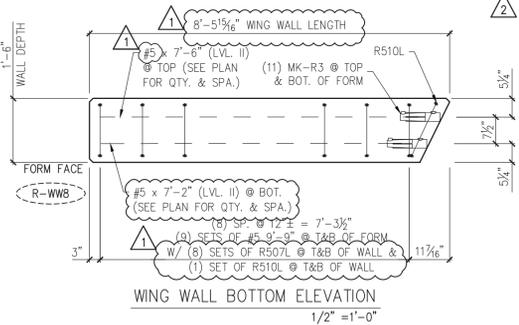
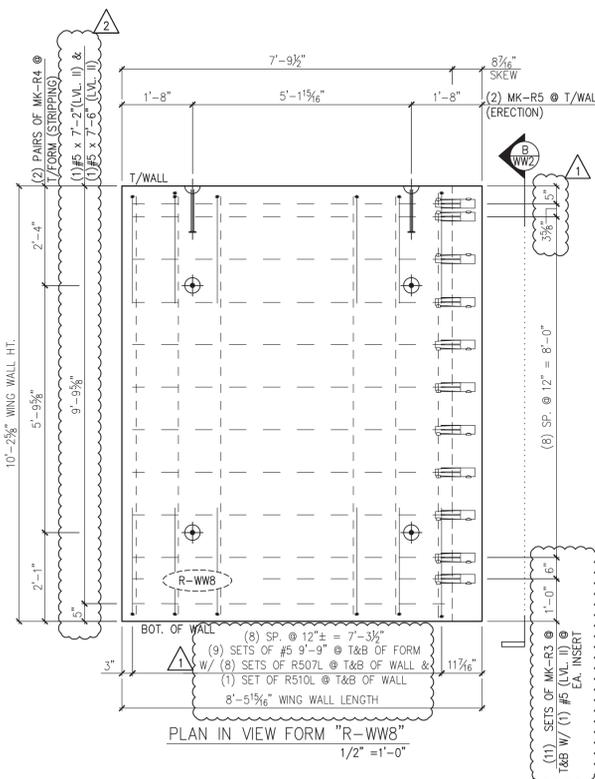
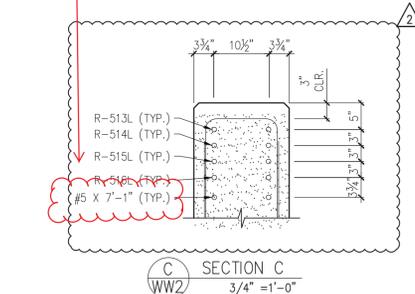
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Vinasse Hangen Brustlin, Inc.
 7056 US Route 7
 North Ferrisburgh, VT 05473
 802.425.7788

Job Number: 57527
 Reviewed By: J.J. WESTCOTT
 Date: 5/16/2014



Verify dimension and quantity with material list



MARK:	R-WW8	QTY.:	1	WT.:	9.4 T	VOL.:	4.63 cy
MARK:	R-WW7	QTY.:	1	WT.:	7.7 T	VOL.:	3.76 cy

MATERIAL LIST - WING WALL				
ITEM	MARK	DESCRIPTION	QTY./WING WALL	
			R-WW8	R-WW7
1	R-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	16	18
2	R-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	0
3	R-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	0	2
4	R-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	0	2
5	R-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	0	2
6	R-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	0	2
7				
8				
9		#5 x 6'-7" (LEVEL II, DUAL COATED)	0	6
10		#5 x 7'-2" (LEVEL II, DUAL COATED)	12	0
11		#5 x 7'-3" (LEVEL II, DUAL COATED)	0	14
12		#5 x 7'-6" (LEVEL II, DUAL COATED)	12	0
13		#5 x 7'-10" (LEVEL II, DUAL COATED)	0	6
14		#5 x 8'-11" (LEVEL II, DUAL COATED)	0	6
15		#5 x 9'-9" (LEVEL II, DUAL COATED)	18	0
16				
17				
18				
19	MK-R3	NMB SPLICE SLEEVE #5 U-XPC (EPOXY COATED)	22	20
	MK-R4	4T x 9 1/2" SWIFT LIFT LIFTER	4	4
	MK-R5	20T x 19 3/4" SWIFT LIFT LIFTER	2	2

4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

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

W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2650
 BALLSTON SPA, NY 12020

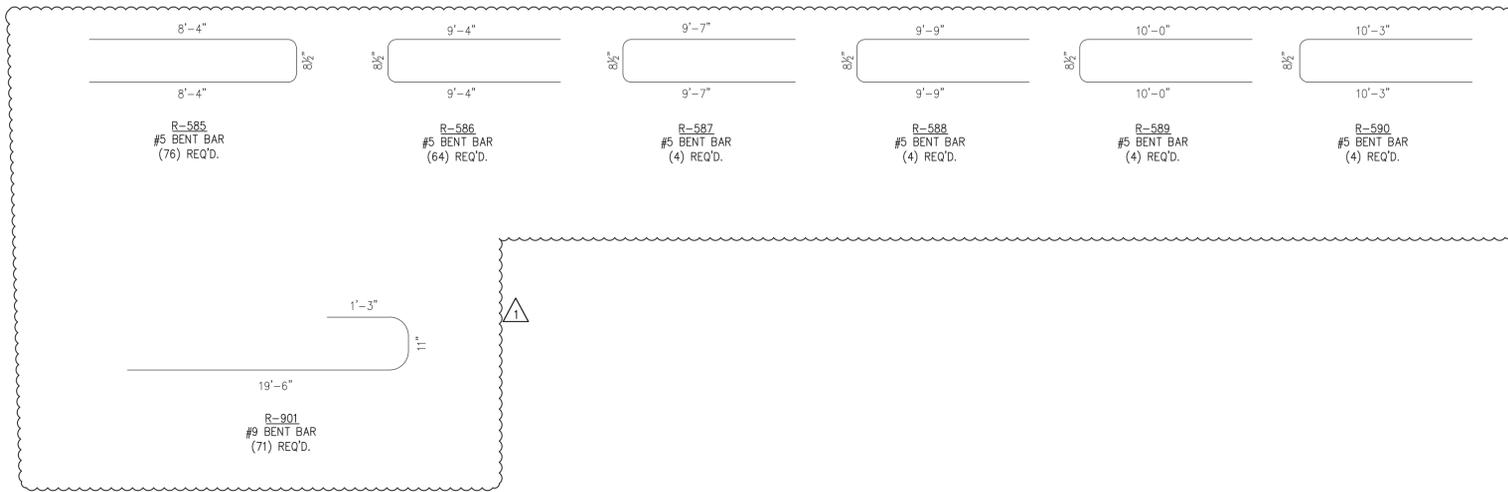
STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

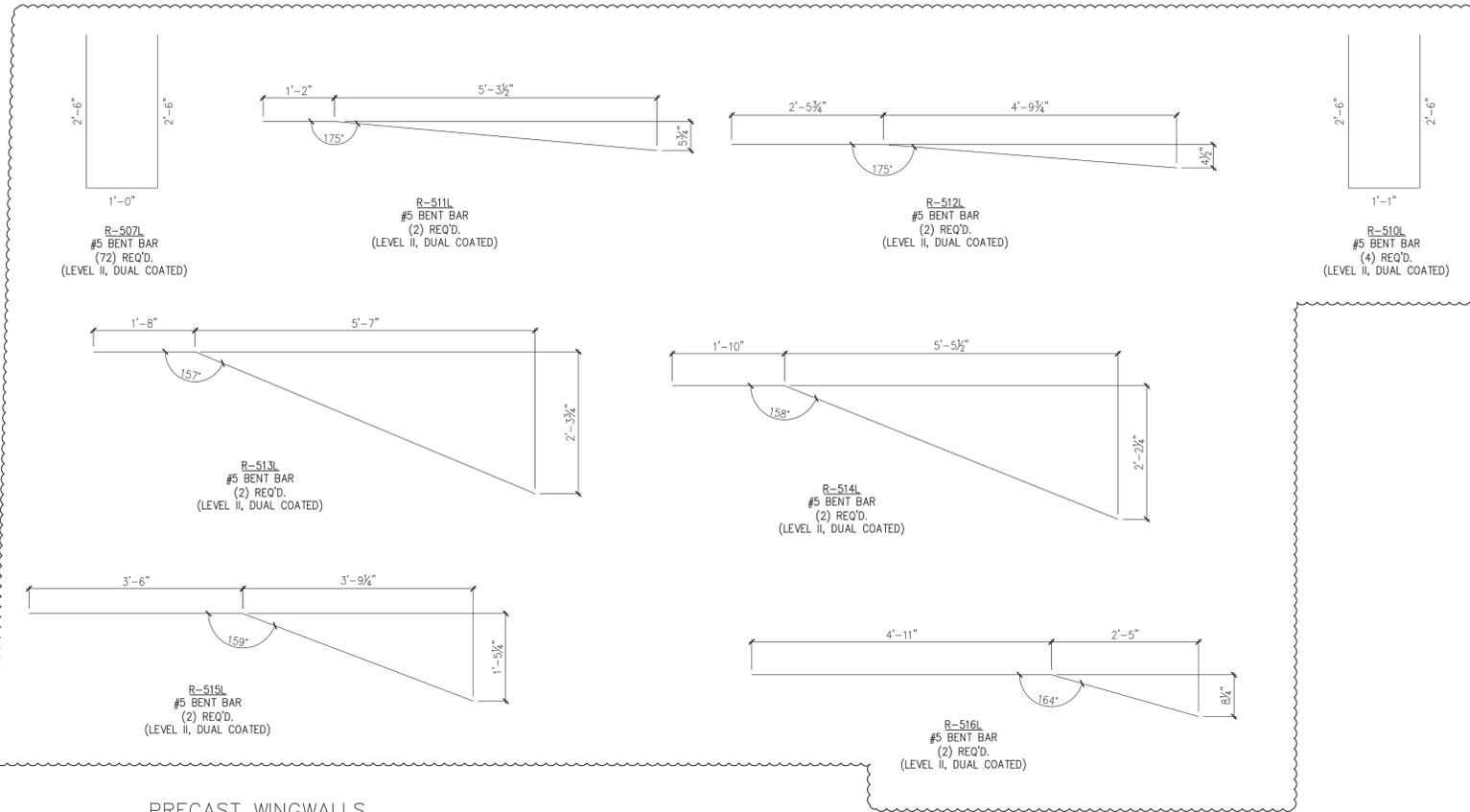
DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM/AAT/RWS
 JJ/KLT
 JOB NO: 23419-013
 DWG. NO: WW2

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S:\Engineering Services\Carrara\14002 Rochester BR 16 & 16P\Production Drawings\AutoCAD Files\Bridge 16\BR 16-M-1.dwg



PRECAST APPROACH SLABS



PRECAST WINGWALLS

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1				
2		55	#6 x 19'-7" (LEVEL I, BLACK REINFORCEMENT)	
3				
4				
5				
6	MK-R2	24	8T x 10" SWIFT LIFT LIFTER	
7				
8				
9				
10		6	#5 x 6'-7" (LEVEL II, DUAL COATED)	
11		23	#5 x 7'-2" (LEVEL II, DUAL COATED)	
12		34	#5 x 7'-3" (LEVEL II, DUAL COATED)	
13		23	#5 x 7'-6" (LEVEL II, DUAL COATED)	
14		6	#5 x 7'-10" (LEVEL II, DUAL COATED)	
15		6	#5 x 8'-11" (LEVEL II, DUAL COATED)	
16		18	#5 x 9'-1" (LEVEL II, DUAL COATED)	
17		18	#5 x 9'-3" (LEVEL II, DUAL COATED)	
18		18	#5 x 9'-9" (LEVEL II, DUAL COATED)	
19				
20				
21				
22	MK-R3	84	NMB SPLICE SLEEVE #5 U-X(PC) (EPOXY COATED)	
23	MK-R4	16	4T x 9 1/2" SWIFT LIFT LIFTER	
24	MK-R5	8	20T x 19 3/4" SWIFT LIFT LIFTER	
25				

PRECAST APPROACH SLABS
PRECAST WING WALLS

Vermont Agency of Transportation
RECEIVED
 ON: **May 9, 2014**
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 05/16/2014

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

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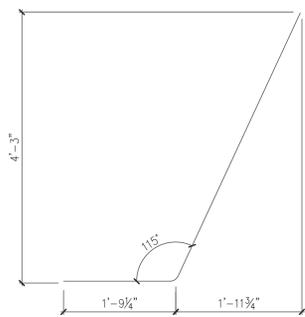
Vanasse Hangen Brustlin, Inc.	Job Number: 52527
7056 US Route 7 North Ferrisburgh, VT 05473 802.425.7788	Reviewed By: J.L. WESTCOTT Date: 5/16/2014

4/11/14 REVISE & RESUBMIT

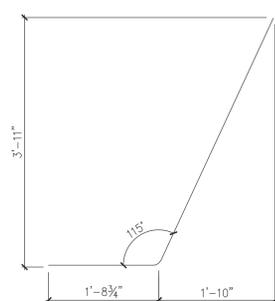
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., WOODBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9810	W.M. SCHULTZ CONSTRUCTION, INC. PO BOX 2620 BALLSTON SPA, NY 12020
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)	CHKD: DFTM: AAT/RWS JJ/KLT JOB NO: 23419-013
	MATERIALS LIST	

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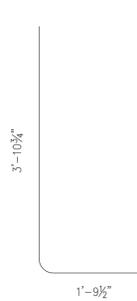
R-511
#5 BENT BAR
(13) REQ'D.



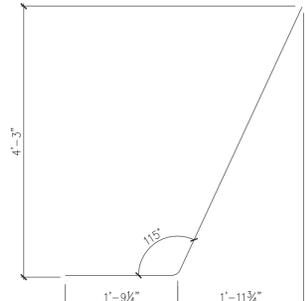
R-512
#5 BENT BAR
(13) REQ'D.



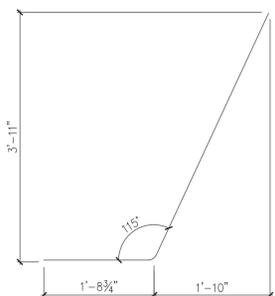
R-513
#5 BENT BAR
(13) REQ'D.



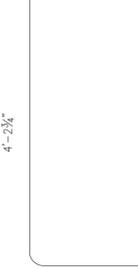
R-514
#5 BENT BAR
(13) REQ'D.



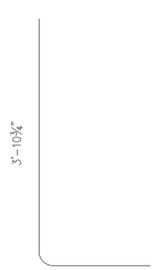
R-535L
#5 BENT BAR
(12) REQ'D.
(LEVEL II, DUAL COATED)



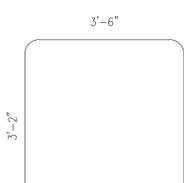
R-536L
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(12) REQ'D.
(LEVEL II, DUAL COATED)



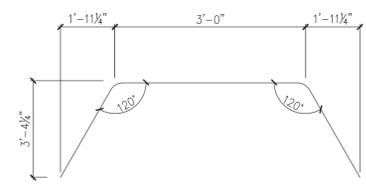
R-537L
#5 BENT BAR
(8) REQ'D.
(LEVEL II, DUAL COATED)



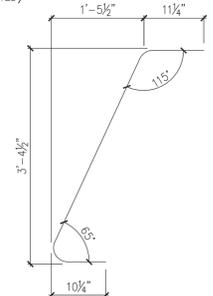
R-538L
#5 BENT BAR
(8) REQ'D.
(LEVEL II, DUAL COATED)



R-601
#6 BENT BAR
(68) REQ'D.



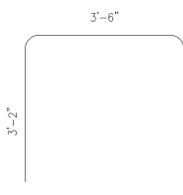
R-602
#6 BENT BAR
(20) REQ'D.



R-603L
#6 BENT BAR
(16) REQ'D.
(LEVEL II, DUAL COATED)



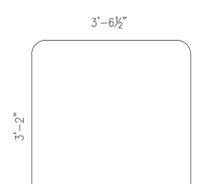
R-604
#6 BENT BAR
(8) REQ'D.



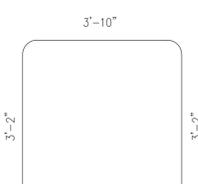
R-635L
#6 BENT BAR
(4) REQ'D.
(LEVEL II, DUAL COATED)



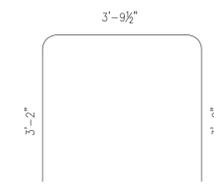
R-643L
#6 BENT BAR
(5) REQ'D.
(LEVEL II, DUAL COATED)



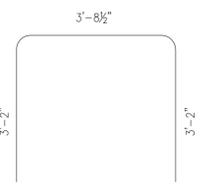
R-636L
#6 BENT BAR
(1) REQ'D.
(LEVEL II, DUAL COATED)



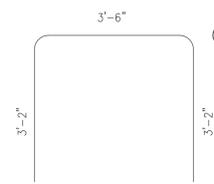
R-638L
#6 BENT BAR
(1) REQ'D.
(LEVEL II, DUAL COATED)



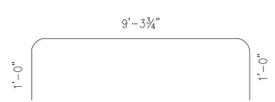
R-645
#6 BENT BAR
(9) REQ'D.



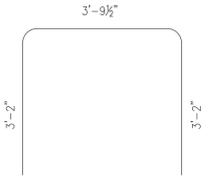
R-646
#6 BENT BAR
(4) REQ'D.



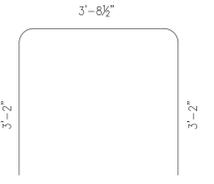
R-647
#6 BENT BAR
(4) REQ'D.



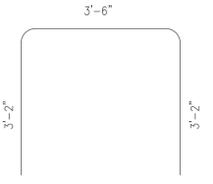
R-608
#6 BENT BAR
(8) REQ'D.



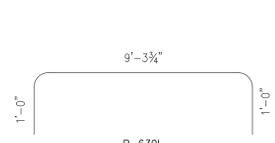
R-640L
#6 BENT BAR
(8) REQ'D.
(LEVEL II, DUAL COATED)



R-641L
#6 BENT BAR
(4) REQ'D.
(LEVEL II, DUAL COATED)



R-642L
#6 BENT BAR
(1) REQ'D.
(LEVEL II, DUAL COATED)



R-639L
#6 BENT BAR
(8) REQ'D.
(LEVEL II, DUAL COATED)

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.		REMARKS
1		48	#6 x 5'-2" (LEVEL I - BLACK REINFORCEMENT)	
2		26	#6 x 5'-4" (LEVEL I - BLACK REINFORCEMENT)	
3		48	#6 x 5'-7" (LEVEL I - BLACK REINFORCEMENT)	
4		26	#6 x 5'-10" (LEVEL I - BLACK REINFORCEMENT)	
5		13	#6 x 8'-10" (LEVEL II - BLACK REINFORCEMENT)	
6		11	#6 x 8'-11" (LEVEL II - BLACK REINFORCEMENT)	
7		26	#6 x 9'-8" (LEVEL II - BLACK REINFORCEMENT)	
8		7	#6 x 13'-4" (LEVEL I - BLACK REINFORCEMENT)	
9		2	#6 x 13'-8" (LEVEL I - BLACK REINFORCEMENT)	
10		7	#6 x 14'-4" (LEVEL I - BLACK REINFORCEMENT)	
11		2	#6 x 14'-5" (LEVEL I - BLACK REINFORCEMENT)	
12		2	#6 x 14'-8" (LEVEL I - BLACK REINFORCEMENT)	
13		7	#6 x 15'-0" (LEVEL I - BLACK REINFORCEMENT)	
14		2	#6 x 15'-5" (LEVEL I - BLACK REINFORCEMENT)	
15		7	#6 x 16'-0" (LEVEL I - BLACK REINFORCEMENT)	
16		36	#6 x 24'-8" (LEVEL I - BLACK REINFORCEMENT)	
17				
18				
19		16	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	

SHOP DRAWING REVIEW

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VHB Vanasse Hangen Brustlin, Inc.
7050 LJS Route 7
North Ferrisburgh, VT 05473
802.425.7788

Job Number: 57527
Reviewed by: J.L. WESTCOTT
Date: 5/16/2014

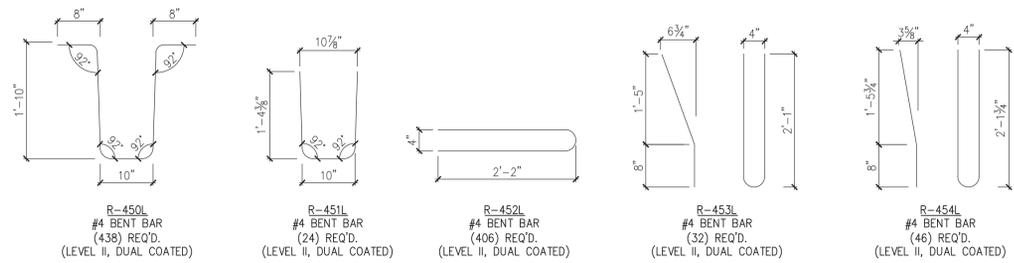
PRECAST ABUTMENT

Vermont Agency of Transportation
RECEIVED
ON: **May 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 05/16/2014

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4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE ST., MOORESBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9810	W.M. SCHULTZ CONSTRUCTION, INC. PO BOX 2620 BALLSTON SPA, NY 12020
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)	CHKD: DFTM: AAT/RWS JJ/KLT JOB NO: 23419-013
	MATERIALS LIST	DWG. NO: M2



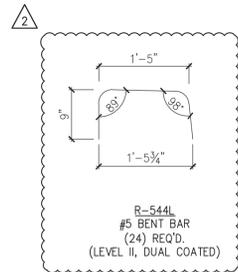
R-450L
#4 BENT BAR
(438) REQ'D.
(LEVEL II, DUAL COATED)

R-451L
#4 BENT BAR
(24) REQ'D.
(LEVEL II, DUAL COATED)

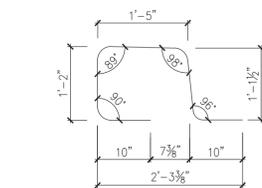
R-452L
#4 BENT BAR
(406) REQ'D.
(LEVEL II, DUAL COATED)

R-453L
#4 BENT BAR
(32) REQ'D.
(LEVEL II, DUAL COATED)

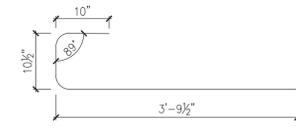
R-454L
#4 BENT BAR
(46) REQ'D.
(LEVEL II, DUAL COATED)



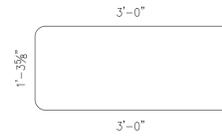
R-544L
#5 BENT BAR
(24) REQ'D.
(LEVEL II, DUAL COATED)



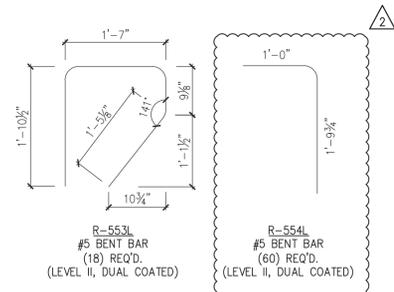
R-550L
#5 BENT BAR
(186) REQ'D.
(LEVEL II, DUAL COATED)



R-551L
#5 BENT BAR
(246) REQ'D.
(LEVEL II, DUAL COATED)

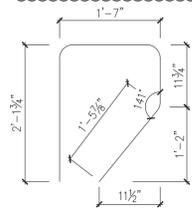


R-552L
#5 BENT BAR
(48) REQ'D.
(LEVEL II, DUAL COATED)

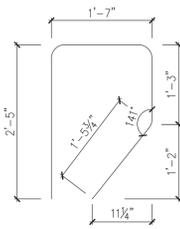


R-553L
#5 BENT BAR
(18) REQ'D.
(LEVEL II, DUAL COATED)

R-554L
#5 BENT BAR
(60) REQ'D.
(LEVEL II, DUAL COATED)



R-555L
#5 BENT BAR
(22) REQ'D.
(LEVEL II, DUAL COATED)



R-556L
#5 BENT BAR
(18) REQ'D.
(LEVEL II, DUAL COATED)

PRECAST BEAMS

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.		REMARKS
1		54	#4 x 9'-10" (LEVEL II, DUAL COATED)	
2				
3		20	#5 x 8'-0" (LEVEL II, DUAL COATED)	
4		8	#5 x 8'-2" (LEVEL II, DUAL COATED)	
5		20	#5 x 8'-3" (LEVEL II, DUAL COATED)	
6		10	#5 x 8'-6" (LEVEL II, DUAL COATED)	
7		10	#5 x 8'-7" (LEVEL II, DUAL COATED)	
8		660	#5 x 9'-4" (LEVEL II, DUAL COATED)	
9		36	#5 x 9'-7" (LEVEL II, DUAL COATED)	
10		60	#5 x 9'-10" (LEVEL II, DUAL COATED)	
11		34	#5 x 10'-4" (LEVEL II, DUAL COATED)	
12		4	#5 x 11'-3" (LEVEL II, DUAL COATED)	
13		2	#5 x 12'-2" (LEVEL II, DUAL COATED)	
14		84	#5 x 24'-0" (LEVEL II, DUAL COATED)	
15		12	#5 x 26'-0" (LEVEL II, DUAL COATED)	
16		12	#5 x 40'-0" (LEVEL II, DUAL COATED)	
17		84	#5 x 41'-0" (LEVEL II, DUAL COATED)	
18				
19		39	#8 x 1'-6" (LEVEL II, DUAL COATED)	
20				
21		12	SET OF (4) 0.60"φ x 270 KSI STRAND LIFTING LOOPS	

PRECAST BEAMS

Vermont Agency of Transportation

RECEIVED

ON: **May 9, 2014**

and Checked for

CONFORMANCE

BY: **Jennifer Fitch** DATE: **05/16/2014**

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Job Number: 57527
Reviewed By: J.J. WESTCOTT
Date: 5/16/2014

- △ 4/30/14 REVISE & RESUBMIT
- △ 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., WOODLERY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9810	W.M. SCHULTZ CONSTRUCTION, INC. PO BOX 2620 BALLSTON SPA, NY 12020
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	MATERIALS LIST	DWG. NO: M3

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