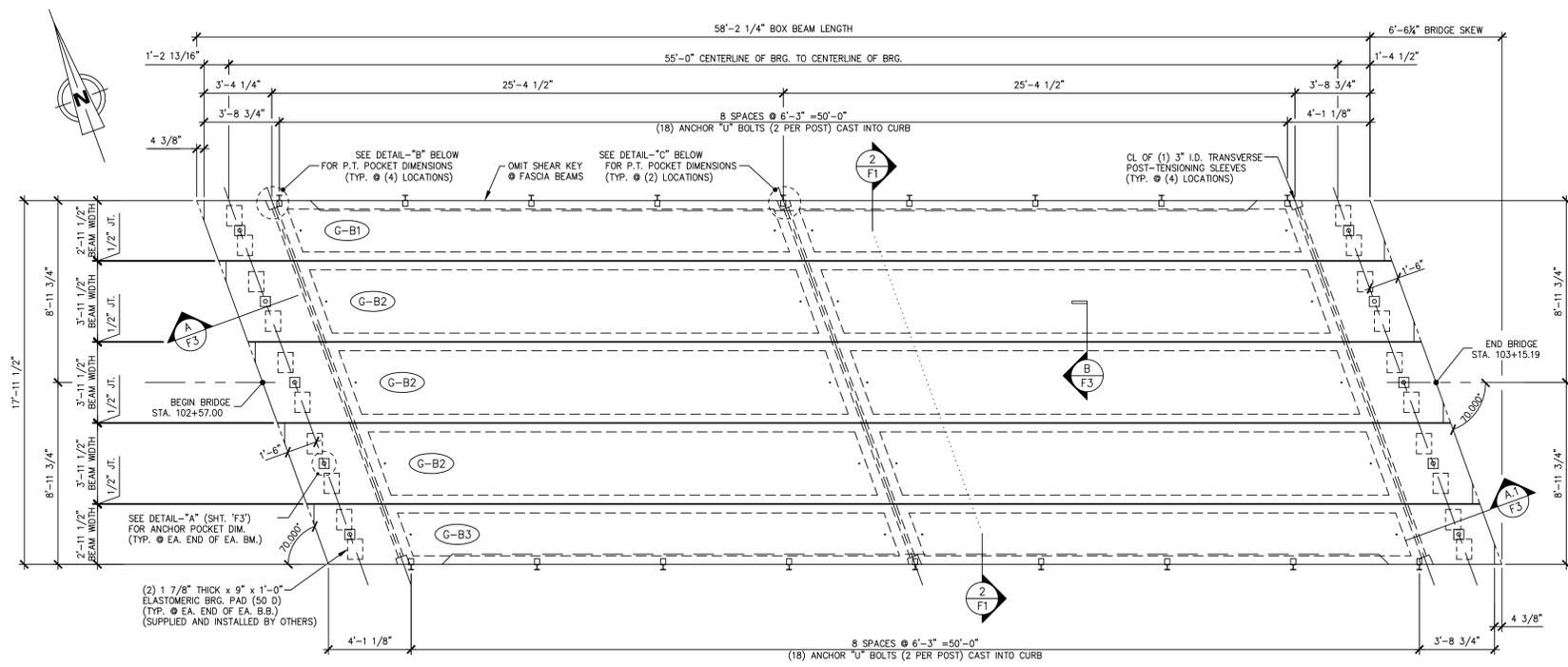
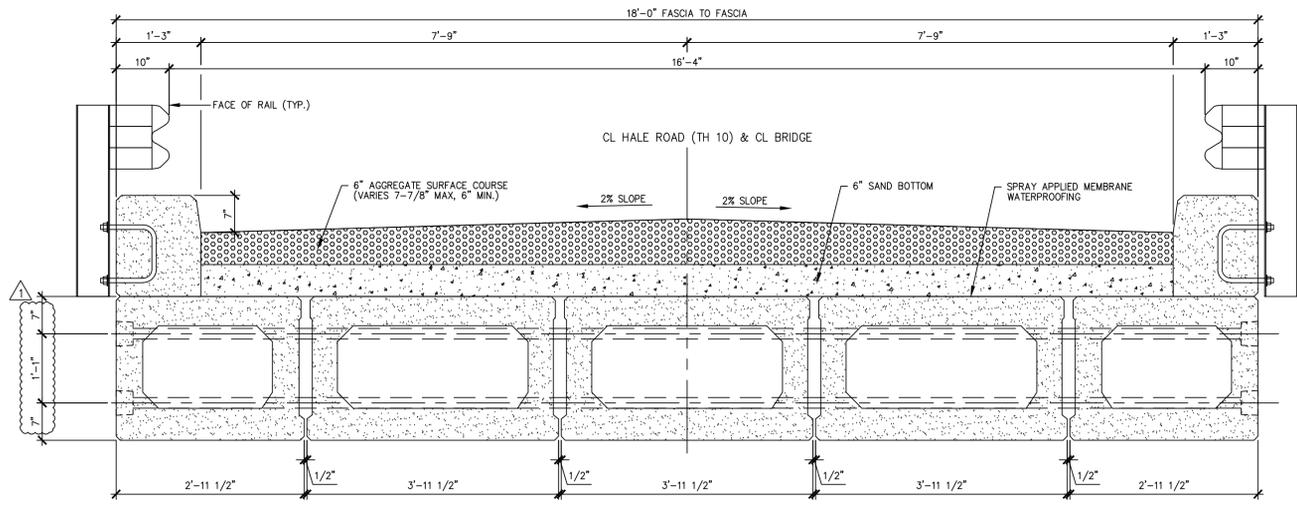


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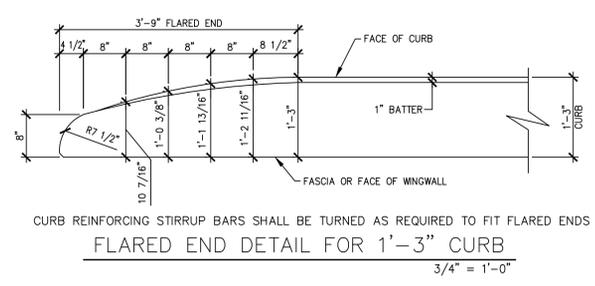


1 PRESTRESSED BOX BEAM LAYOUT  
1/4" = 1'-0"

DESIGN LIVE LOAD: HL-93



2 APPROACH SLAB TRANSVERSE SECTION  
3/4" = 1'-0"



FLARED END DETAIL FOR 1'-3" CURB  
3/4" = 1'-0"

**SHOP DRAWING REVIEW**

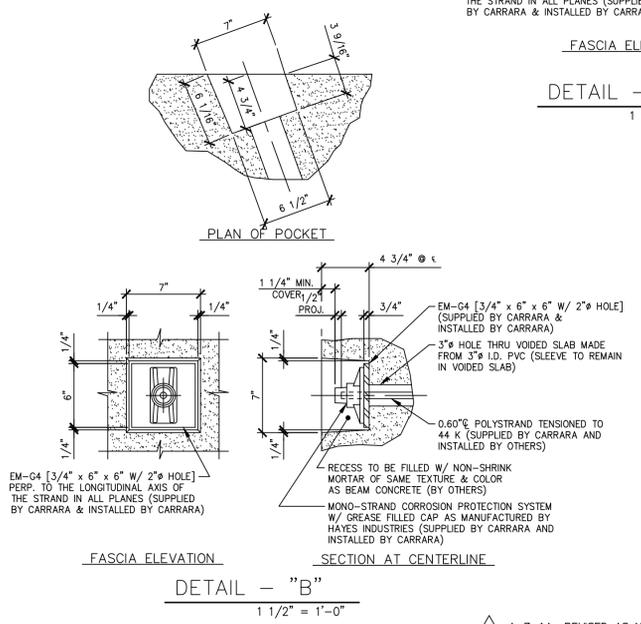
REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED  REVISE AND RESUBMIT  FURNISH AS CORRECTED

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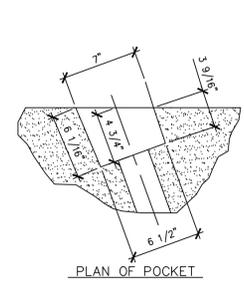
**Vanasse Hangen Brustlin, Inc.**  
7056 US Route 7  
North Ferrisburgh, VT 05473  
802.465.7788

Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014

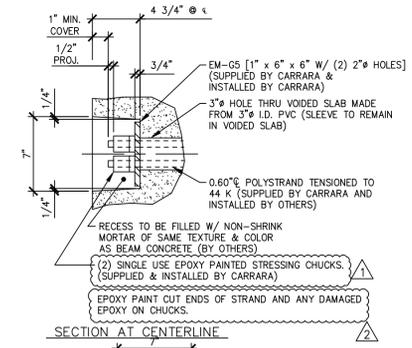


DETAIL - "C"  
1 1/2" = 1'-0"

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



PLAN OF POCKET



SECTION AT CENTERLINE

FASCIA ELEVATION

DETAIL - "C"

1 1/2" = 1'-0"

FASCIA ELEVATION

DETAIL - "B"

1 1/2" = 1'-0"

**GENERAL NOTES**

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 6,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 4,800 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL BE BLACK BAR WITH THE EXCEPTION OF REINFORCEMENT IN BOX BEAMS AND CURBS WHICH SHALL BE LEVEL II - DUAL COATED.
- PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60" DIA x 270 KSI 7-WIRE LOW RELAXATION STRANDS.
- PRESTRESSING STRANDS SHALL 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 RECESSED 3/4" AND PATCHED WITH AN APPROVED GROUT.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
- THE TOP OF BEAMS SHALL RECEIVE A SMOOTH FLOAT FINISH, U.N.O.
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
- BEAMS SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. THE PINS OF THE SHACKLES SHALL BE PLACED THROUGH THE LIFTING LOOPS. SEE DETAIL, SHEET 'F3'. 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. P540.05  
DESIGN MIX: J.P.C. BRIDGE MIX #425M (NO DC)
- 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 POLY AND A LAYER OF HOMOSOTE (OR BLUE BOARD) WILL BE PLACED OVER THE BEAM. THE DESIRED CURING TEMPERATURE RANGE SHALL NOT DROP BELOW 70°. 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, (NATURAL CURE WITH NO EXTERNAL HEAT APPLIED). EACH CHART SHALL BE MARKED.
- TRANSVERSE POST-TENSIONING SEQUENCE:  
A. ERECT BOX BEAMS, AND POST-TENSION TENDONS TO APPROXIMATELY 5,000 LBS.  
B. GROUT SHEAR KEYS.  
C. ONCE SHEAR KEY GROUT HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 1,500 PSI, POST-TENSION TENDONS TO 44,000 LBS. FOR EACH 0.60" STRAND.

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

SIZE & GRADE: 0.60" DIA. x 270 KSI  
AREA: 0.217 IN<sup>2</sup>  
TENSION: 44,000 LB. EACH STRANDS  
GRIP-TO-GRIP: 192'-9 3/4" = 192.813'  
Es = 28,600,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

EXAMPLE:  
 $\Delta = \frac{PL}{AE} = \frac{(44,000 - 3,000) \times 192.813 \times 12}{0.217 \times 28,600,000} = 15.29"$

THEREFORE: (TOLERANCES ± 5%)  
 $\Delta$  UPPER LIMIT = 1.05 x 15.29" = 16.05" = 16 1/16"  
 $\Delta$  LOWER LIMIT = 0.95 x 15.29" = 14.53" = 14 1/2"

EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE:  
 $\Delta P = \frac{0.5 \times 41,000}{15.29} = 1,340$  LBS.

TOTAL TENSIONING FORCE = 44,000 + 1,340 = 45,340 LBS.

**STRAND TENSIONING PROCEDURE:**

- PULL EACH STRAND INITIALLY TO 3,000\* LBS. AND MARK STRAND.
  - THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,340\* LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 14 1/2" & 16 1/16".
- \* NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.

4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

APPROVAL STAMP:

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

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

DATE: MAR. 04, 2014  
SCALE: NOTED  
CHKD: JJ/KLT DFTM:AA1/RWS  
JOB NO: 23420-014

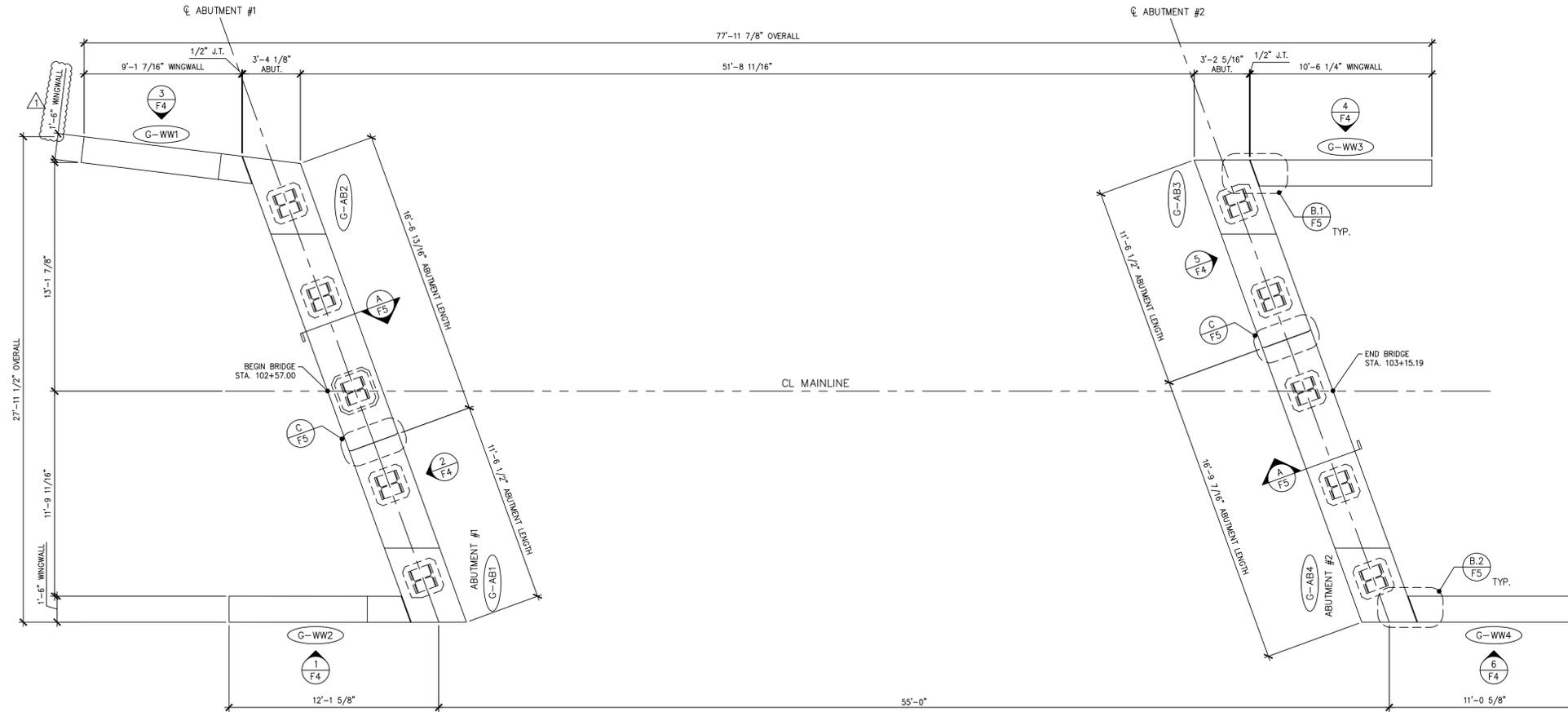
SUPERSTRUCTURE PLANS

DWG. NO: F1

Vermont Agency of Transportation  
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June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

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1 PRECAST CONCRETE ABUTMENT & WING WALL LAYOUT  
 F2  
 1/4" = 1'-0"



- ABUTMENT & WING WALL GENERAL NOTES**
- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
  - MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 3,500 PSI.
  - REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31).
  - THE TOP OF ABUTMENTS SHALL RECEIVE A SMOOTH FLOAT FINISH.
  - ALL EDGES OF ABUTMENT SHALL RECEIVE A 1" CHAMFER (I.N.O.)
  - THE TOP OF WING WALLS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
  - SHEAR KEY SURFACES SHALL BE 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 SPEC. P540.05.
- DESIGN MIX:**  
 WING WALLS: J.P.C. BRIDGE MIX #445M5CC  
 ABUTMENTS: J.P.C. BRIDGE MIX #445M5CC
- 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:
    - ERECT PRECAST CONCRETE ABUTMENTS, AND POST-TENSION CENTER TENDON TO APPROXIMATELY 3,000 LBS.
    - GROUT SHEAR KEY.  
 ONCE SHEAR KEY GROUT HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 1,500 PSI, POST-TENSION TENDONS TO 32,000 LBS.

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**Vanasse Hangen Brustlin, Inc.**  
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 802-425-7799

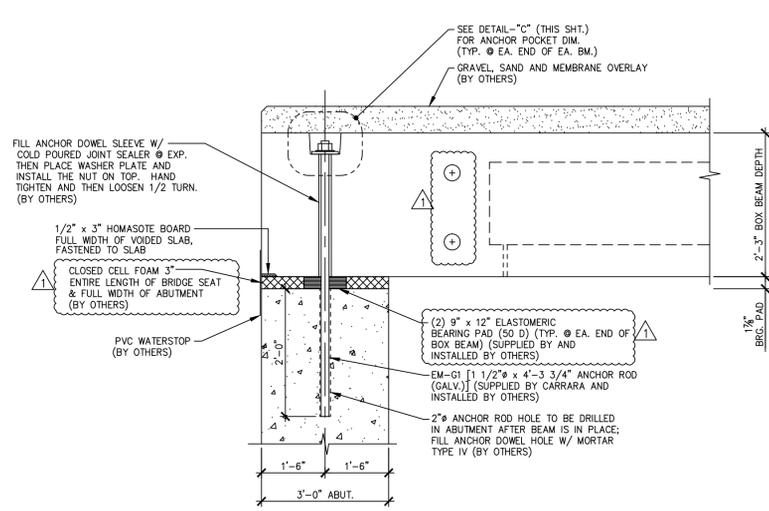
Job Number: 57427.00  
 Reviewed By: S.E. Burbank  
 Date: 06/19/2014

4-7-14 REVISED AS NOTED  
 5-6-14 REVISED AS NOTED

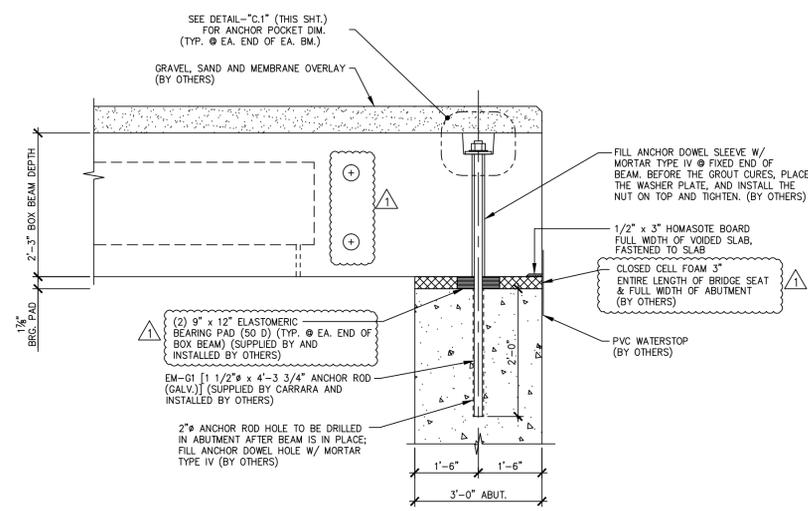
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	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014 SCALE: NOTED
	TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	CHKD: JJ/KLT DFTM:AA1/RWS JOB NO: 23420-014
	SUBSTRUCTURE PLANS	DWG. NO: F2

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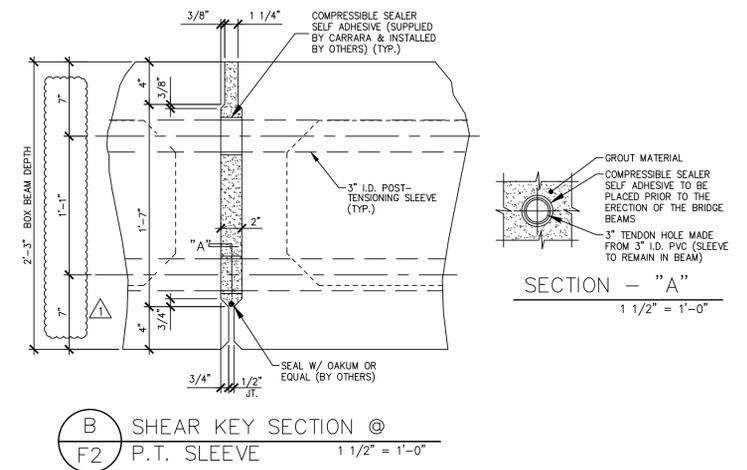
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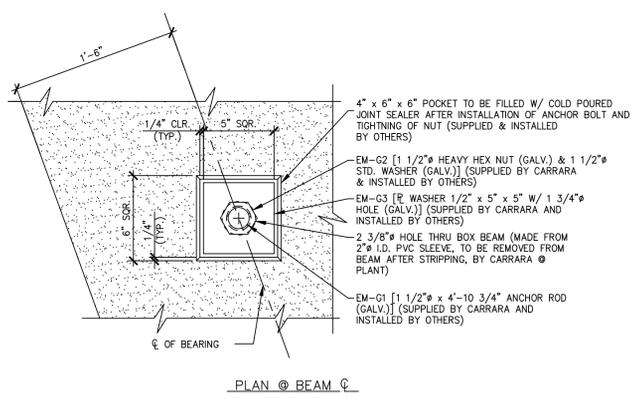
**A BEARING SECTION**  
F2 (EXP. END) 3/4" = 1'-0"



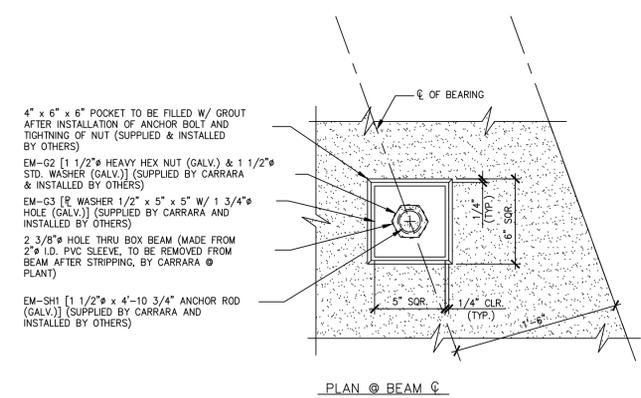
**A.1 BEARING SECTION**  
F2 (FIXED END) 3/4" = 1'-0"



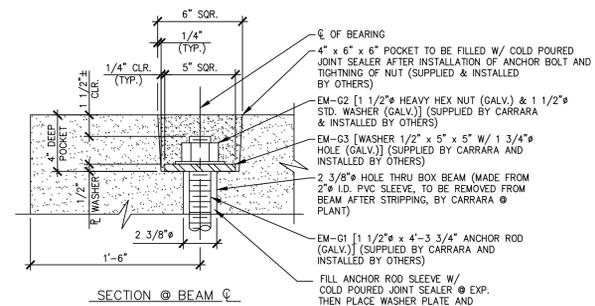
**B SHEAR KEY SECTION @**  
F2 P.T. SLEEVE 1 1/2" = 1'-0"



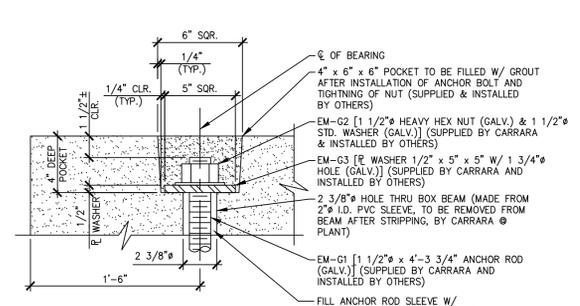
PLAN @ BEAM C



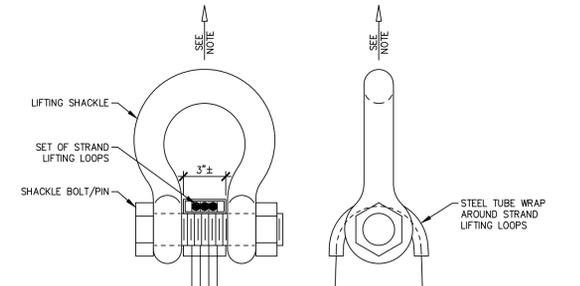
PLAN @ BEAM C



**DETAIL - \"C\"**  
2\" = 1'-0"



**DETAIL - \"C.1\"**  
2\" = 1'-0"



NOTE: BEAM SHALL BE HANDLED AND ERECTED 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

NOTE: DUNNAGE SHALL BE PLACED UNDER BEAMS AT LOCATION OF LIFT LOOPS FOR STORAGE & SHIPPING.

Vermont Agency of Transportation  
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BY M. J. Chenette DATE 06/19/2014

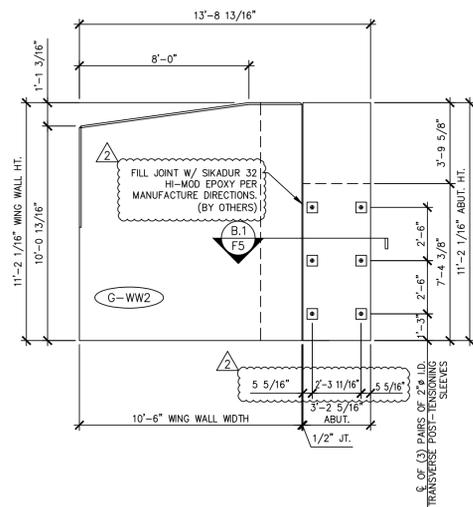
SHOP DRAWING REVIEW	
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<input type="checkbox"/>	REJECTED
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Vanasse Hangen Brustlin, Inc. 7056 US Route 7 North Ferrisburgh, VT 05473 802.425.7789	Job Number: 57427.00 Reviewed By: S.E. Burbank Date: 06/19/2014

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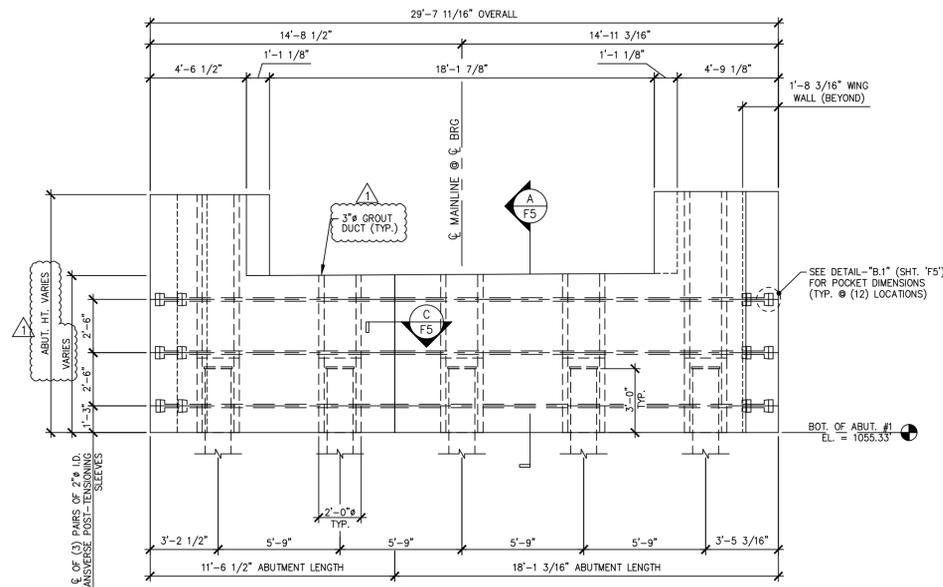
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STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014 SCALE: NOTED
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SUPERSTRUCTURE PLANS	DWG. NO: F3

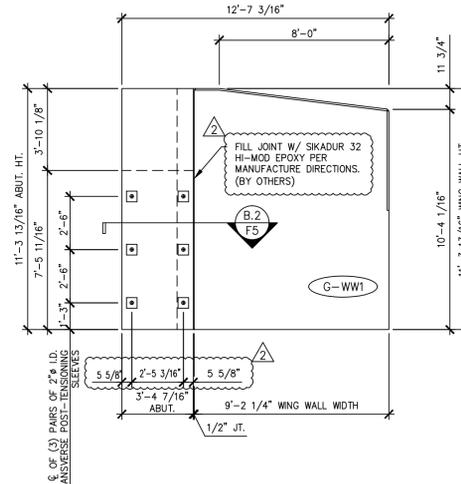
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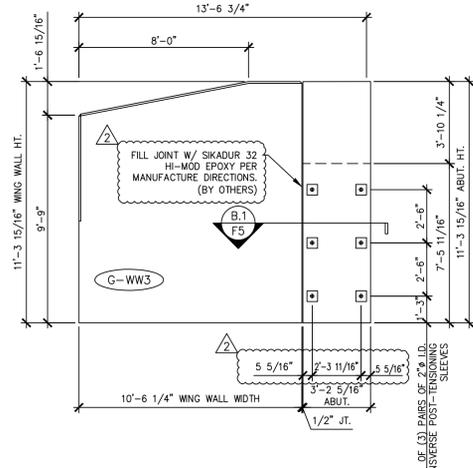
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F4 ELEVATION 1/4" = 1'-0"



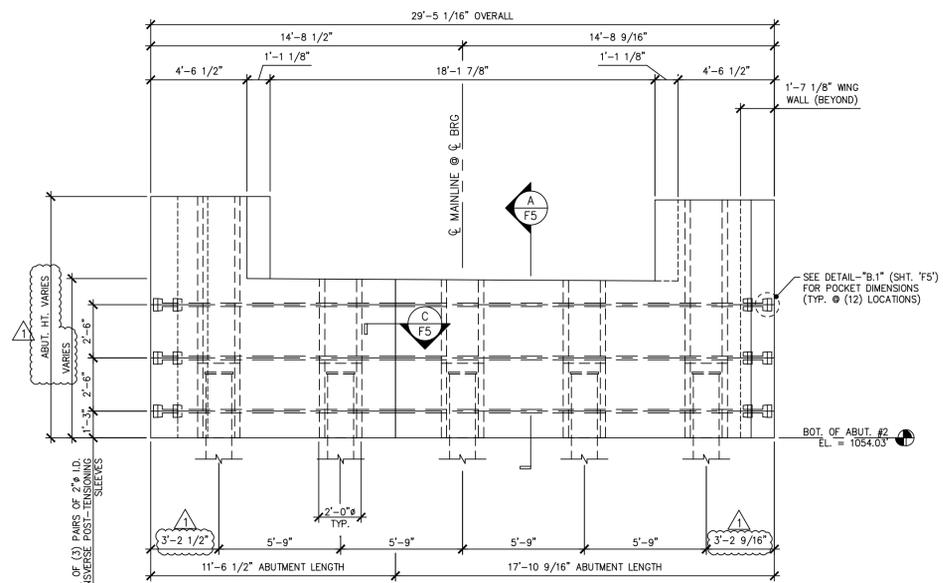
2 ABUTMENT #1 - EAST ELEVATION  
F4 1/4" = 1'-0"



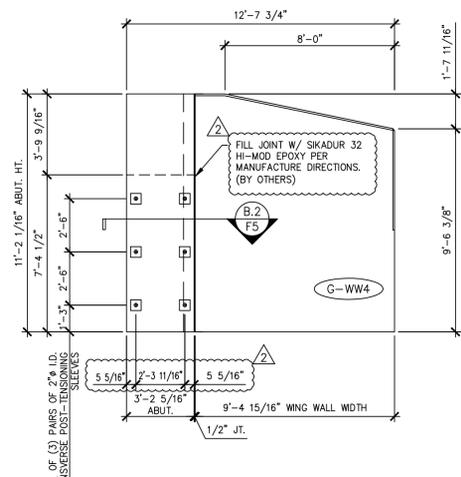
3 WING WALL #1 - NORTH  
F4 ELEVATION 1/4" = 1'-0"



4 WING WALL #3 - NORTH  
F4 ELEVATION 1/4" = 1'-0"



5 ABUTMENT #2 - WEST ELEVATION  
F4 1/4" = 1'-0"



6 WING WALL #4 - SOUTH  
F4 ELEVATION 1/4" = 1'-0"

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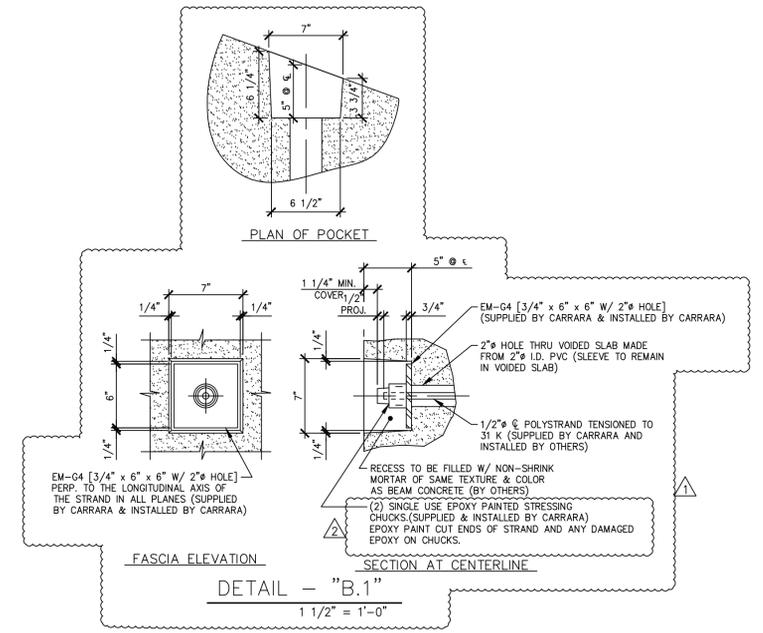
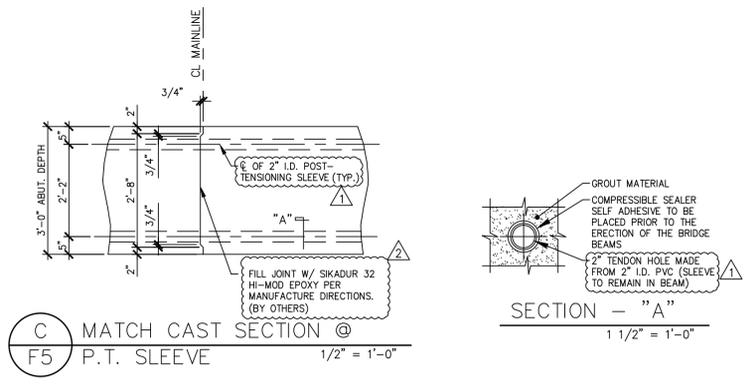
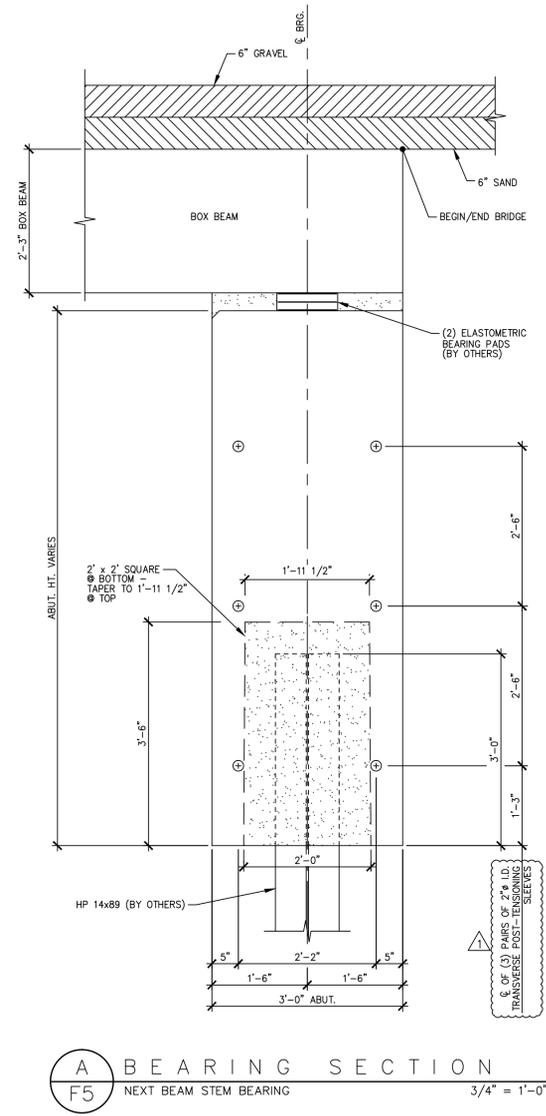
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ABUTMENT ELEVATIONS

DWG. NO: F4

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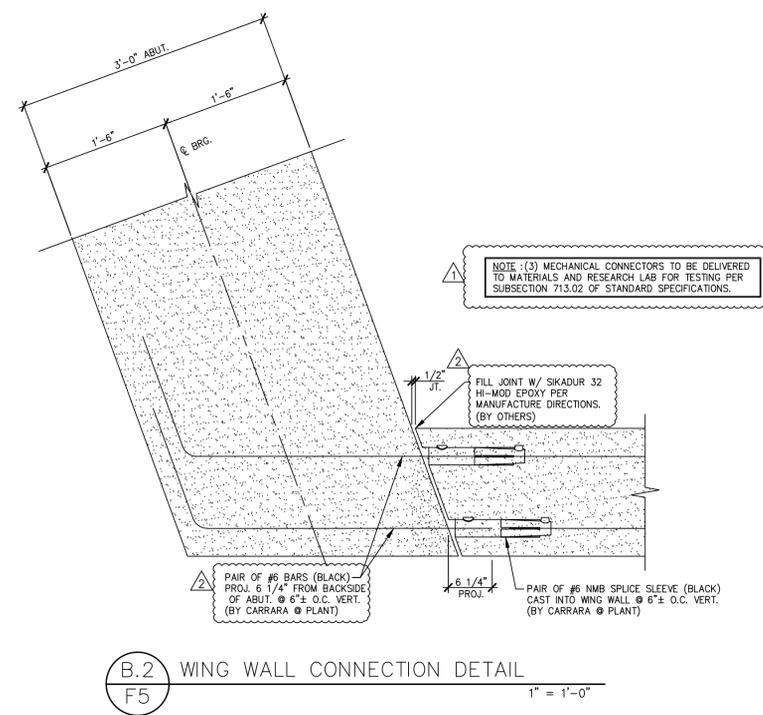
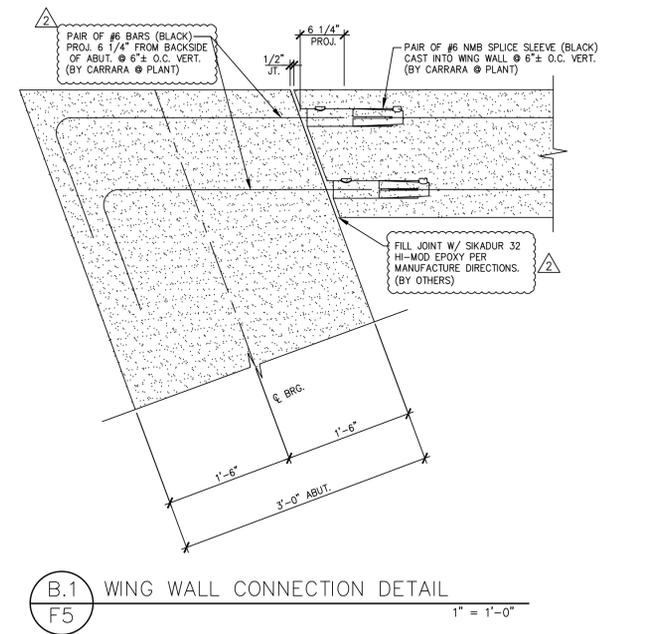
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**Vanasse Hangen Brustlin, Inc.**  
 7056 US Route 7  
 North Ferrisburgh, VT 05473  
 802-425-7788

Job Number: 57427.00  
 Reviewed By: S.E. Burbank  
 Date: 06/19/2014



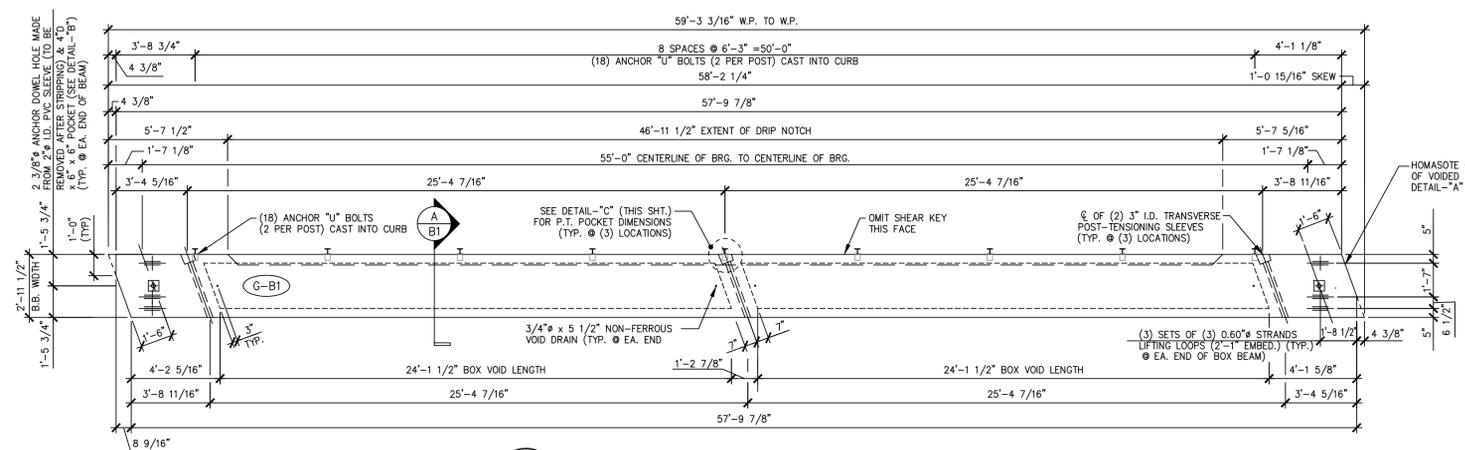
4-7-14 REVISED AS NOTED  
 5-6-14 REVISED AS NOTED

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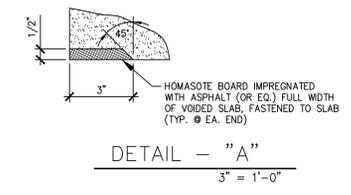
<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer N.T.S. 2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014 SCALE: NOTED
TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	CHKD: JJ/KLT DFTM:AA1/RWS JOB NO: 23420-014
ABUTMENT DETAILS	DWG. NO: F5

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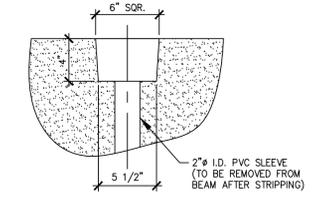
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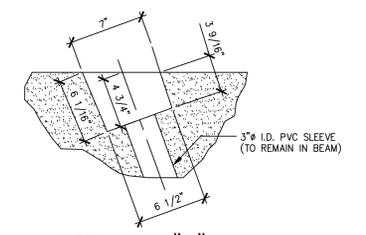
1 DIMENSIONAL PLAN VIEW IN FORM  
B1  
1/4" = 1'-0"



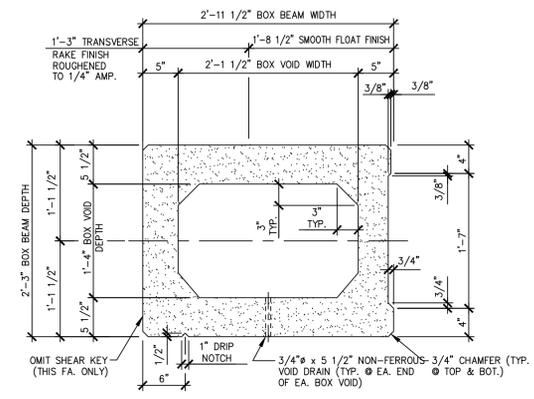
DETAIL - "A"  
3" = 1'-0"



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



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



A DIMENSIONAL SECTION  
B1  
1" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

SHOP NOTE:  
SEE SHEET "B1A" FOR  
REINFORCING DETAILS.

MARK:	G-B1	QTY.:	1	WT.:	26.71 T	VOL.:	13.19 cy
MATERIAL LIST / BEAM							
ITEM	MARK	DESCRIPTION	QTY./BEAM				
			G-B1				
1							
2							
3							
4							
5							
6							
7		3/4" x 5 1/2" NON-FERROUS VOID DRAIN		4			
8		2'-2" x 1'-4 1/2" x 24'-1 1/2" BOX VOID		2			
9		SET OF (3) 0.60" STRAND LIFTING LOOPS		6			
10							

**SHOP DRAWING REVIEW**

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**Vanasse Hangen Brustlin, Inc.**  
7056 US Route 7  
North Ferrisburgh, VT 05473  
802.425.7799

Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer N.T.S.  
2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

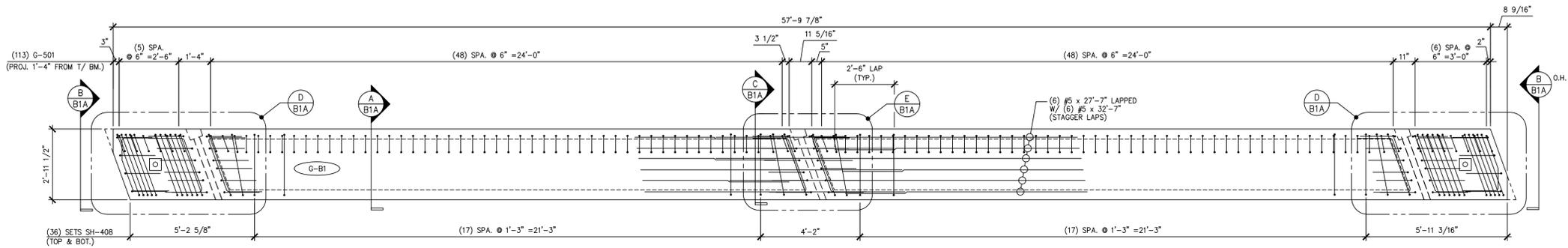
STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

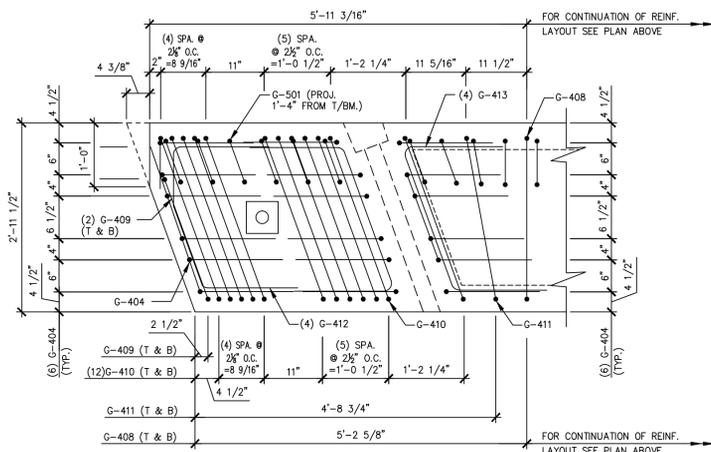
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DIMENSIONAL DETAILS

DATE: MAR. 04, 2014  
SCALE: NOTED  
CHKD: JJ/KLT DFTM:AA1/RWS  
JOB NO.: 23420-014  
DWG. NO.: B1

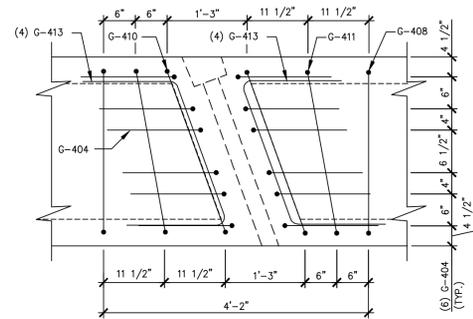
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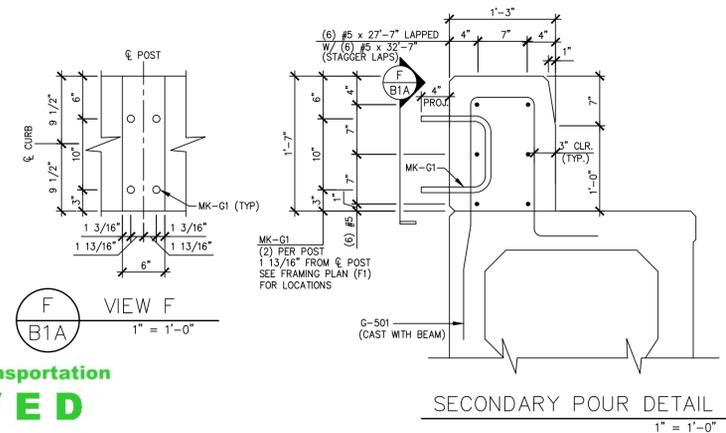
1 REINFORCING PLAN VIEW IN FORM  
B1A 3/8\"/>



D END BLOCK REINFORCING PLAN  
B1A 3/4\"/>



E P.T. DIAPHRAGM REINFORCING PLAN  
B1A 3/4\"/>



F VIEW F  
B1A 1\"/>

SECONDARY POUR DETAIL  
1\"/>

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY MJC OK'D BY TAS

June 18, 2014

RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

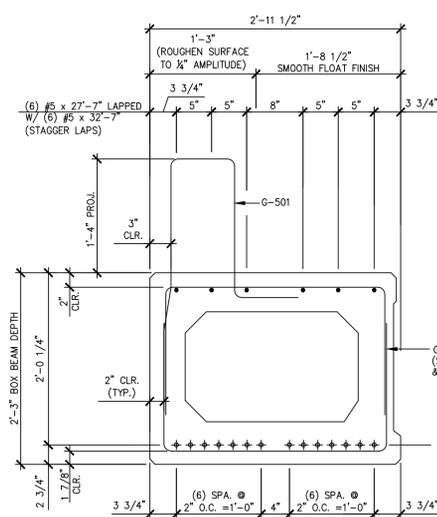
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DETENSING SCHEDULE

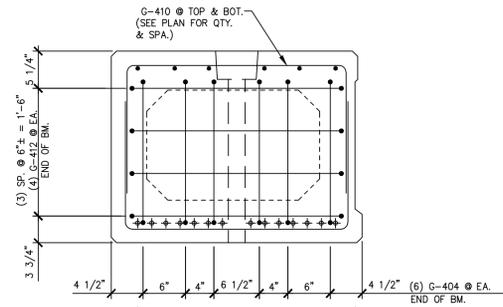
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MARK: G-B1	QTY.: 1
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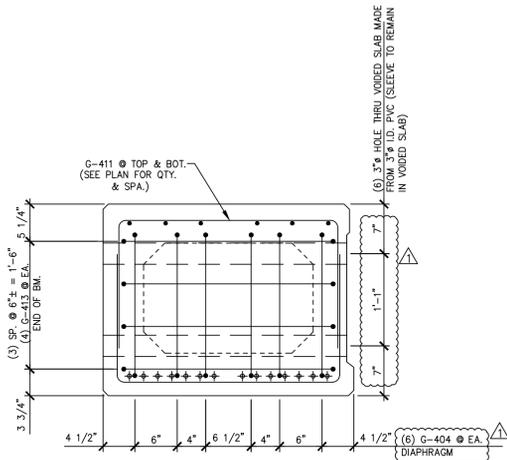
MATERIAL LIST / BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	G-404	#4 BENT BAR (LEVEL II - DUAL COATED)	48
2	G-408	#4 BENT BAR (LEVEL II - DUAL COATED)	72
3	G-409	#4 BENT BAR (LEVEL II - DUAL COATED)	4
4	G-410	#4 BENT BAR (LEVEL II - DUAL COATED)	52
5	G-411	#4 BENT BAR (LEVEL II - DUAL COATED)	8
6	G-412	#4 BENT BAR (LEVEL II - DUAL COATED)	8
7	G-413	#4 BENT BAR (LEVEL II - DUAL COATED)	24
8	G-501	#5 BENT BAR (LEVEL II - DUAL COATED)	113
9			
10			
11			
12			
13			
14			
15			
16		#5 x 27'-7\"/>	12
17		#5 x 32'-7\"/>	12
18			
19			
20			
21			
22	MK-G1	1\"/>	18
23			
24			



A REINFORCING SECTION  
B1A 1\"/>



B END BLOCK REINF. SECTION  
B1A 1\"/>



C P.T. DIAPHRAGM REINF. SECTION  
B1A 1\"/>

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**Vanasse Hangen Brustlin, Inc.** Job Number: 57427.00  
7056 US Route 7 North Ferrisburgh, VT 05473 Reviewed By: S.E. Burbank  
802.425.7788 Date: 06/19/2014

4-7-14 REVISED AS NOTED

APPROVAL STAMP:

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

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM  
DATE: MAR. 04, 2014  
SCALE: NOTED

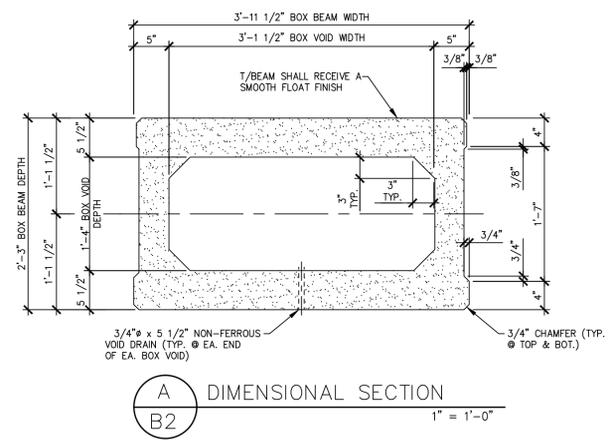
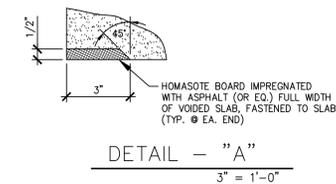
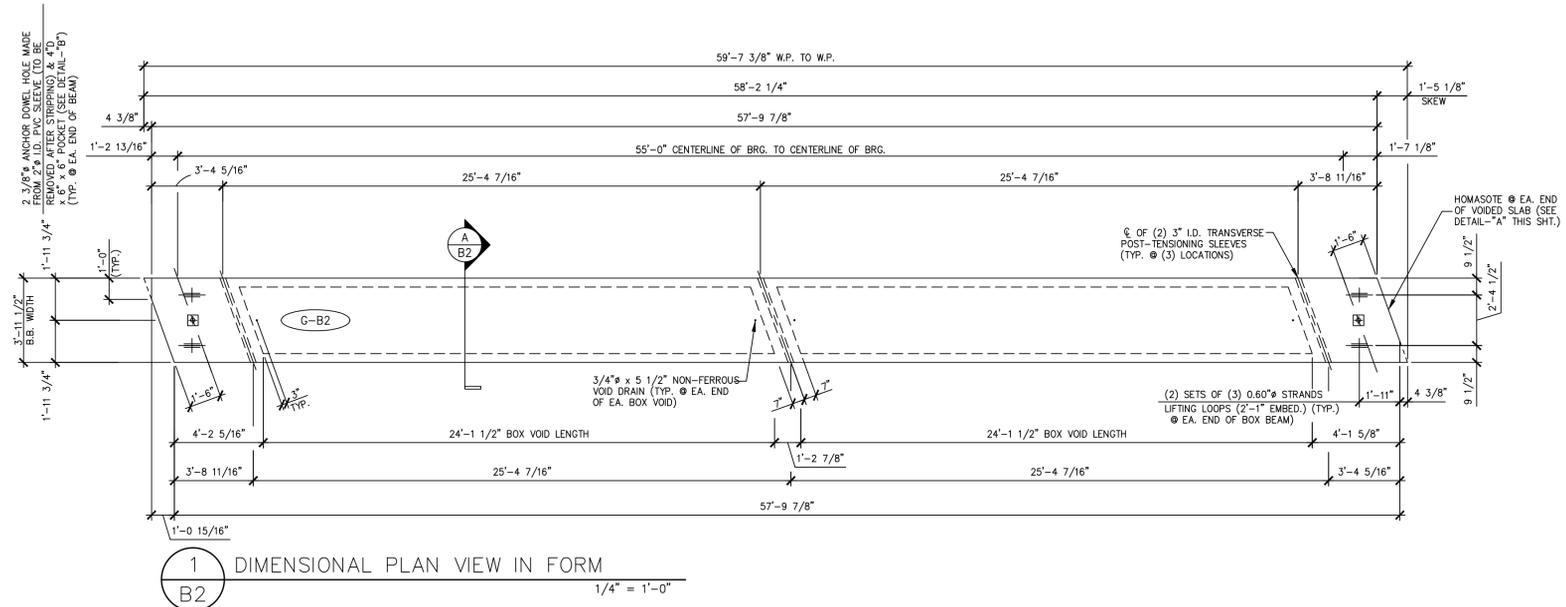
TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)  
CHKD: JJ/KLT DFTM:AA7/RWS  
JOB NO: 23420-014

PRESTRESSED BOX BEAM REINFORCING DETAILS  
DWG. NO: B1A

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Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY MJC OK'D BY TAS  
 June 18, 2014  
 RESUBMIT No Approved  
 BY M. J. Chenette DATE 06/19/2014

SHOP NOTE:  
 SEE SHEET "B2A" FOR  
 REINFORCING DETAILS.

MARK:	G-B2	QTY.:	3	WT.:	23.64 T	VOL.:	11.68 cy
MATERIAL LIST / BEAM							
ITEM	MARK	DESCRIPTION				QTY./BEAM	
1							
2							
3							
4							
5							
6							
7		3/4" x 5 1/2" NON-FERROUS VOID DRAIN				4	
8		2'-2" x 1'-4 1/2" x 24'-1 1/2" BOX VOID				2	
9		SET OF (3) 0.60" STRAND LIFTING LOOPS				4	
10							

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**Vanasse Hangen Brustlin, Inc.**  
 Job Number: 57427.00  
 Reviewed By: S.E. Burbank  
 Date: 06/19/2014

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
 Precast & Prestress Manufacturer N.T.S.  
 2444 OISE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

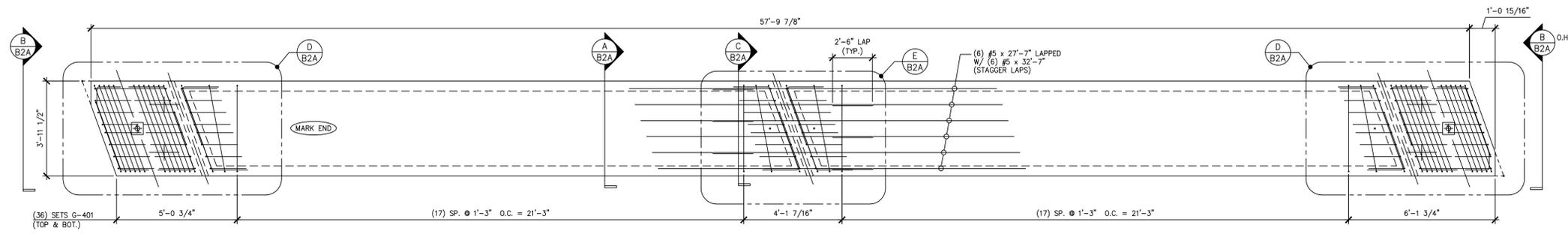
STATE OF VERMONT AGENCY OF TRANSPORTATION  
 COUNTY OF WINDHAM

TOWN OF GUILFORD  
 ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
 BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

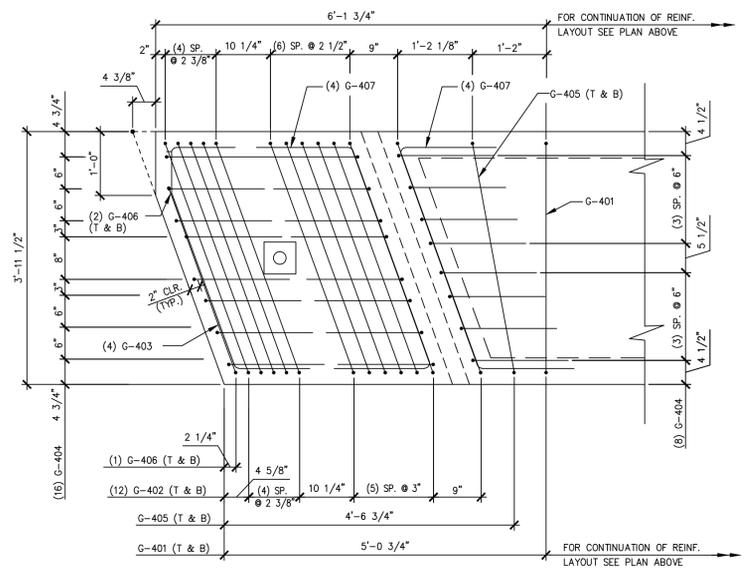
PRESTRESSED BOX BEAM  
 DIMENSIONAL DETAILS

DATE: MAR. 04, 2014  
 SCALE: NOTED  
 CHKD: JJ/KLT DFTM:AA1/RWS  
 JOB NO: 23420-014  
 DWG. NO: B2

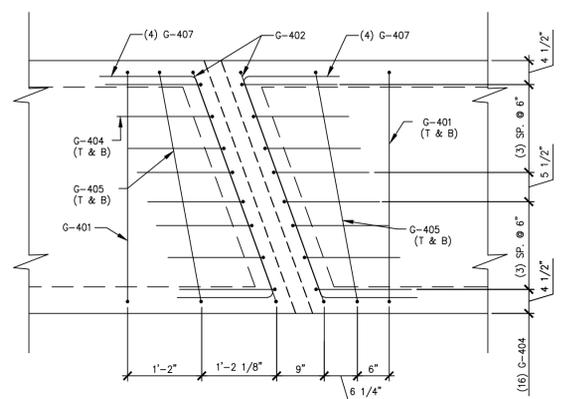
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1 REINFORCING PLAN VIEW IN FORM  
B2A 1/4" = 1'-0"



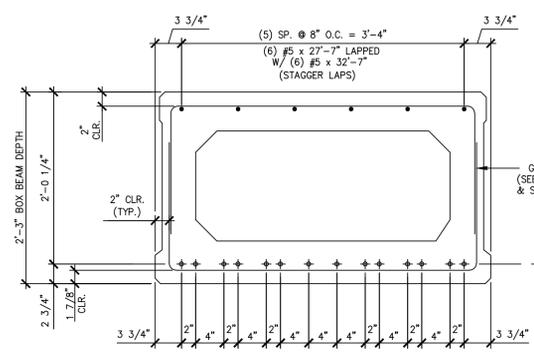
D END BLOCK REINFORCING PLAN  
B2A 3/4" = 1'-0"



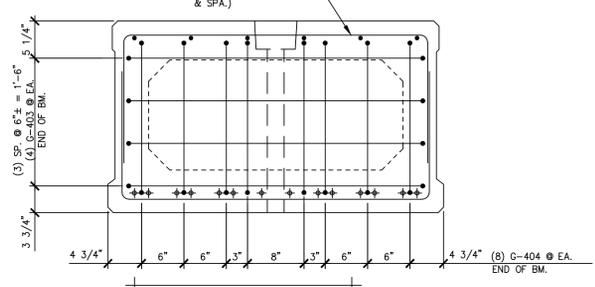
E P.T. DIAPHRAGM REINFORCING PLAN  
B2A 3/4" = 1'-0"

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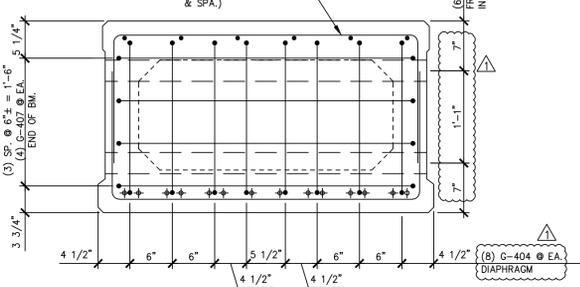
DETENSIONING SCHEDULE  
N.T.S.



A REINFORCING SECTION  
B2A 1" = 1'-0"



B END BLOCK REINF. SECTION  
B2A 1" = 1'-0"



C P.T. DIAPHRAGM REINF. SECTION  
B2A 1" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**SHOP DRAWING REVIEW**

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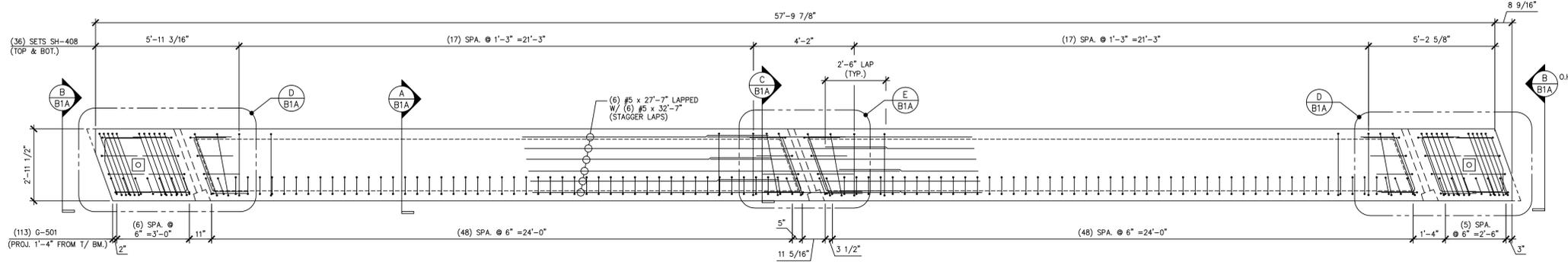
Vannse Hagen Brustlin, Inc. Job Number 57427.00  
7056 US Route 7 Reviewed By: S.E. Burbank  
North Ferrisburgh, VT 05473 Date: 06/19/2014  
802.425.7788

MATERIAL LIST / BEAM		QTY.
1	G-401 #4 BENT BAR (LEVEL II - DUAL COATED)	72
2	G-402 #4 BENT BAR (LEVEL II - DUAL COATED)	52
3	G-403 #4 BENT BAR (LEVEL II - DUAL COATED)	8
4	G-404 #4 BENT BAR (LEVEL II - DUAL COATED)	64
5	G-405 #4 BENT BAR (LEVEL II - DUAL COATED)	8
6	G-406 #4 BENT BAR (LEVEL II - DUAL COATED)	4
7	G-407 #4 BENT BAR (LEVEL II - DUAL COATED)	24
8		
9		
10		
11		
12		
13		
14		
15		
16	#5 x 27'-7" (LEVEL II - DUAL COATED)	6
17	#5 x 32'-7" (LEVEL II - DUAL COATED)	6
18		
19		
20		
21		
22		
23		
24		
25		

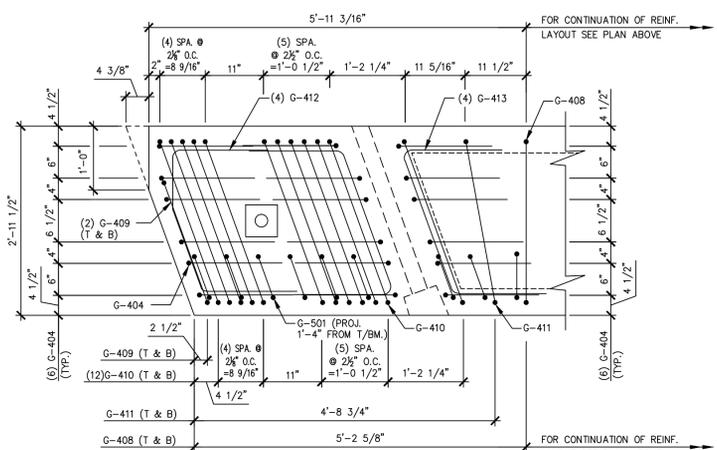
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer N.T.S. 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014 SCALE: NOTED
TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	CHKD: JJ/KLT DFTM:AA1/RWS JOB NO: 23420-014
PRESTRESSED BOX BEAM REINFORCING DETAILS	DWG. NO: B2A

Eriksson technologies 813.989.3317  
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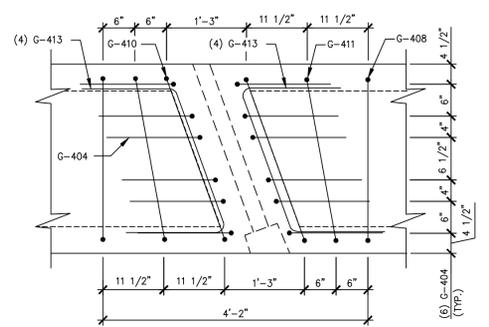




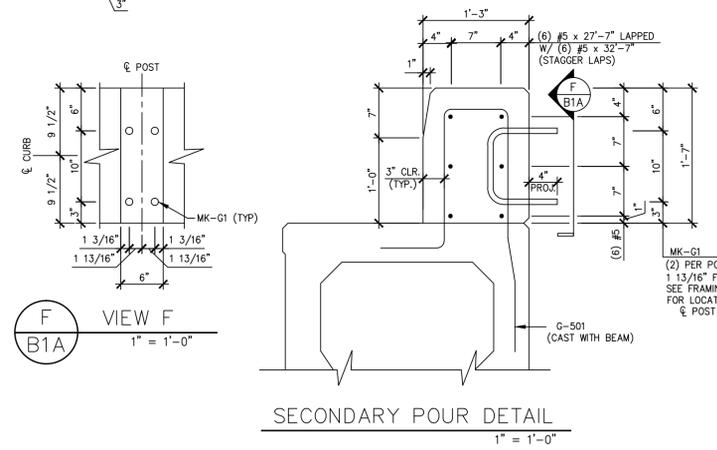
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3/8" = 1'-0"



D END BLOCK REINFORCING PLAN  
3/4" = 1'-0"



E P.T. DIAPHRAGM REINFORCING PLAN  
3/4" = 1'-0"



SECONDARY POUR DETAIL  
1" = 1'-0"

1 3 5 7 9 11 13 14 12 10 8 6 4 2

DETENSIONING SCHEDULE  
N.T.S.

MARK: G-B3		QTY.: 1	
MATERIAL LIST / BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	G-404	#4 BENT BAR (LEVEL II DUAL COATED)	48
2	G-408	#4 BENT BAR (LEVEL II DUAL COATED)	72
3	G-409	#4 BENT BAR (LEVEL II DUAL COATED)	4
4	G-410	#4 BENT BAR (LEVEL II DUAL COATED)	52
5	G-411	#4 BENT BAR (LEVEL II DUAL COATED)	8
6	G-412	#4 BENT BAR (LEVEL II DUAL COATED)	8
7	G-413	#4 BENT BAR (LEVEL II DUAL COATED)	24
8	G-501	#5 BENT BAR (LEVEL II DUAL COATED)	113
9			
10			
11			
12			
13			
14			
15			
16		#5 x 27'-7" (LEVEL II DUAL COATED)	12
17		#5 x 32'-7" (LEVEL II DUAL COATED)	12
18			
19			
20			
21			
22	MK-G1	1" ANCHOR "U" BOLTS (SUPPLIED BY OTHERS)	18
23			
24			
25			

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**SHOP DRAWING REVIEW**

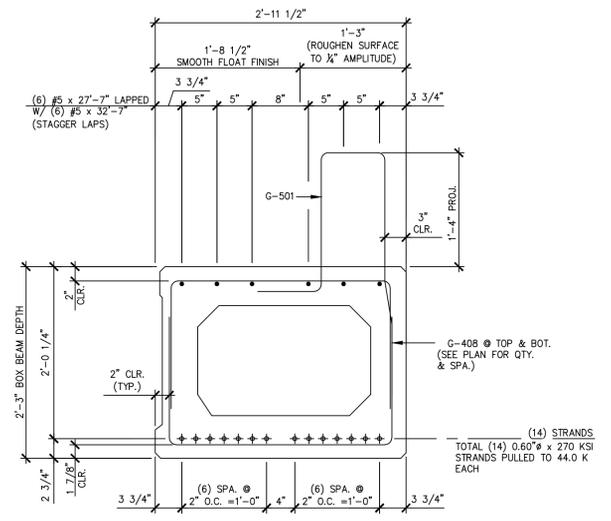
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REJECTED  REVISE AND RESUBMIT  FURNISH AS CORRECTED

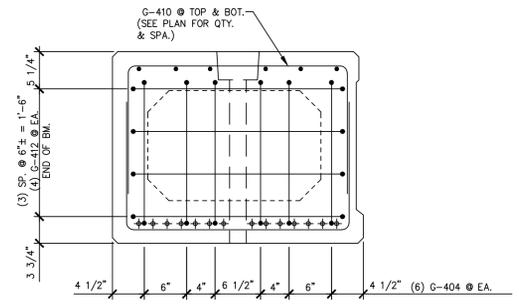
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7056 US Route 7  
North Ferrisburgh, VT 05473  
802.425.7788

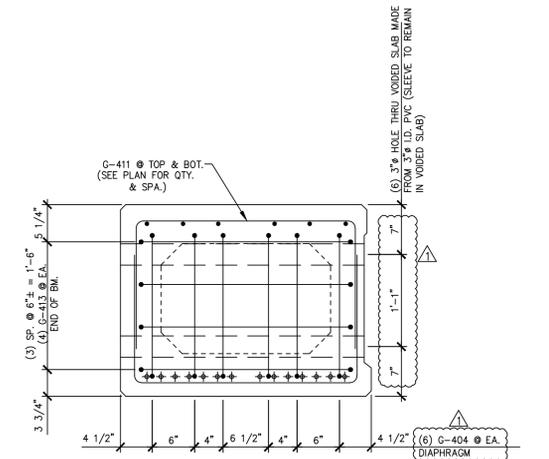
Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014



A REINFORCING SECTION  
1" = 1'-0"



B END BLOCK REINF. SECTION  
1" = 1'-0"



C P.T. DIAPHRAGM REINF. SECTION  
1" = 1'-0"

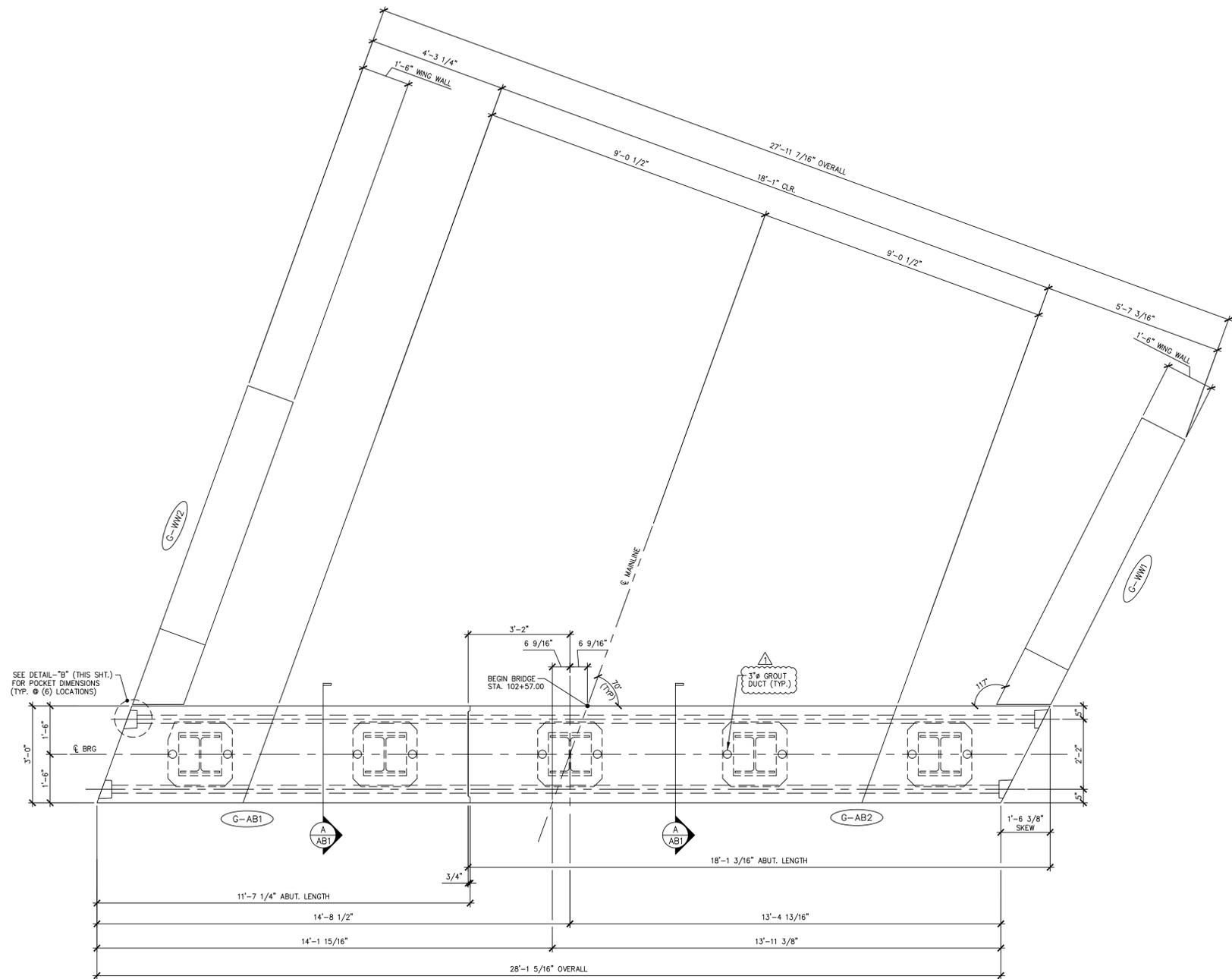
4-7-14 REVISED AS NOTED

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer N.T.S. 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014
	TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	CHKD: JJ/KLT DFTM:AA1/RWS JOB NO: 23420-014
	PRESTRESSED BOX BEAM REINFORCING DETAILS	DWG. NO: B3A

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S:\Engineering Services\Carrara\14001 - Guilford Bridge 65\Production Drawings\AutoCAD Files\144236-AB.dwg, 5/6/2014 4:44:37 PM, DWG To PDF.pc3



1 ABUTMENT ASSEMBLY PLAN  
AB1  
1/4" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY MJC OK'D BY TAS

June 18, 2014

RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**SHOP DRAWING REVIEW**

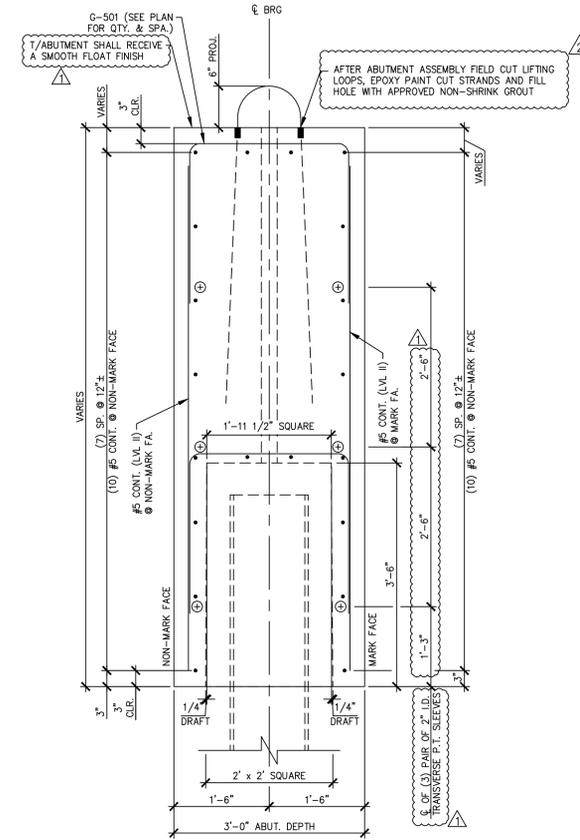
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REJECTED  REVISE AND RESUBMIT  FURNISH AS CORRECTED

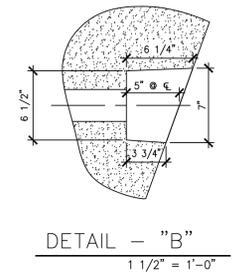
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**Vanasse Hangen Brustlin, Inc.**  
7056 US Route 7  
North Ferrisburgh, VT 05473  
802.425.7788

Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014



A ABUTMENT SECTION  
AB1  
1/4" = 1'-0"



4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

APPROVAL STAMP:

**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer N.T.S.  
2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

DATE: MAR. 04, 2014  
SCALE: NOTED

TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

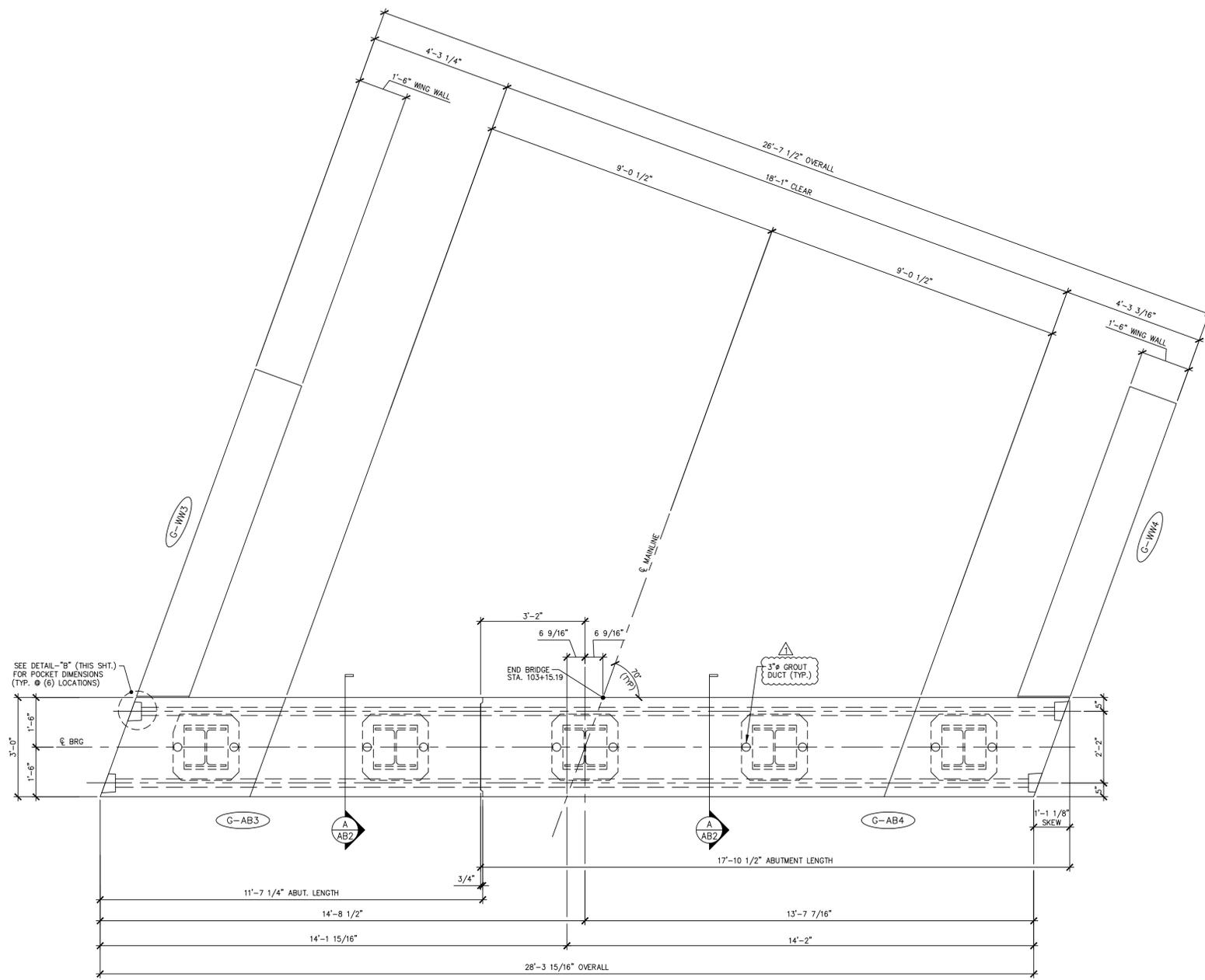
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JOB NO: 23420-014

PRECAST ABUTMENT DETAILS

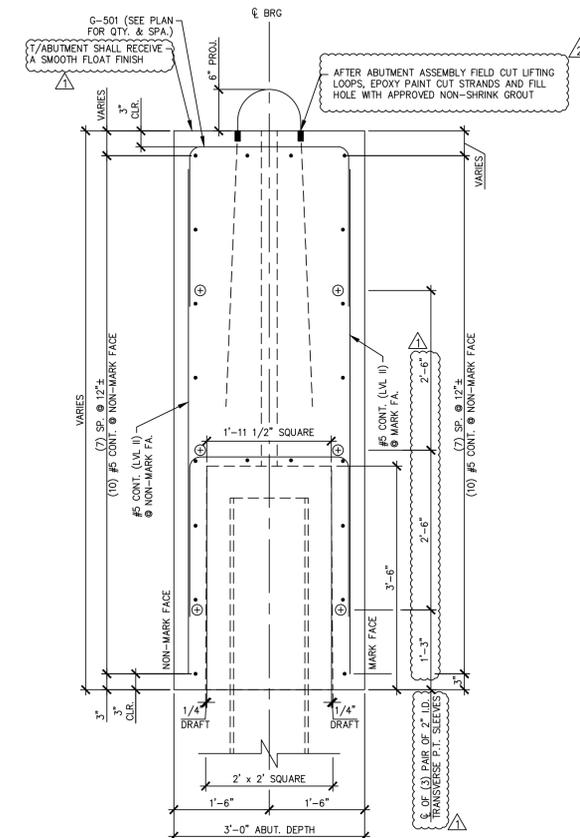
DWG. NO: AB1

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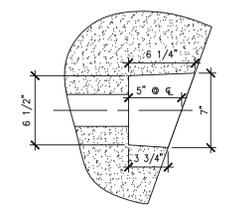
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1 ABUTMENT ASSEMBLY PLAN  
1/4" = 1'-0"



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



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

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**SHOP DRAWING REVIEW**

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7056 US Route 7  
North Ferrisburgh, VT 05473  
802.452.7798

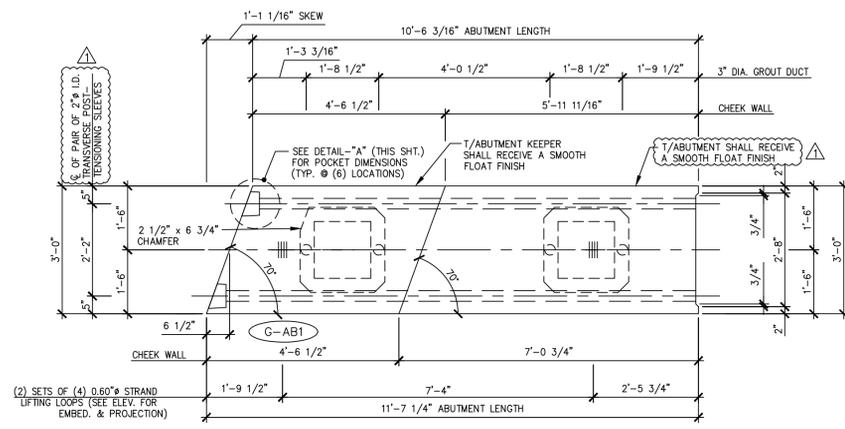
Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014

- △ 4-7-14 REVISED AS NOTED
- △ 5-6-14 REVISED AS NOTED

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STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM		DATE: MAR. 04, 2014	SCALE: NOTED
TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)		CHKD: JJ/KLT	DFTM:AA1/RWS
PRECAST ABUTMENT DETAILS		JOB NO: 23420-014	DWG. NO: AB2

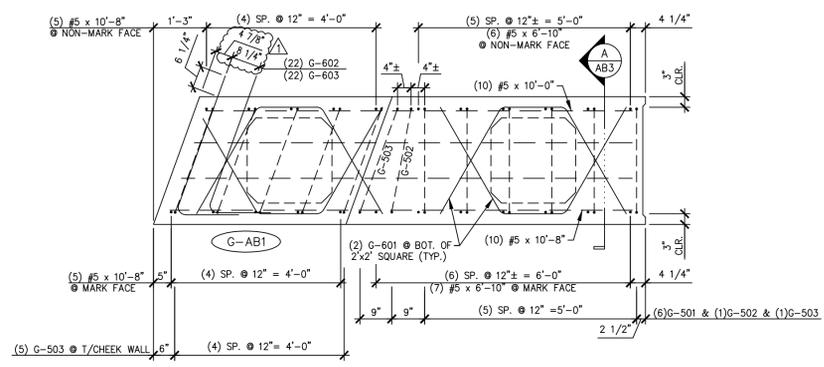
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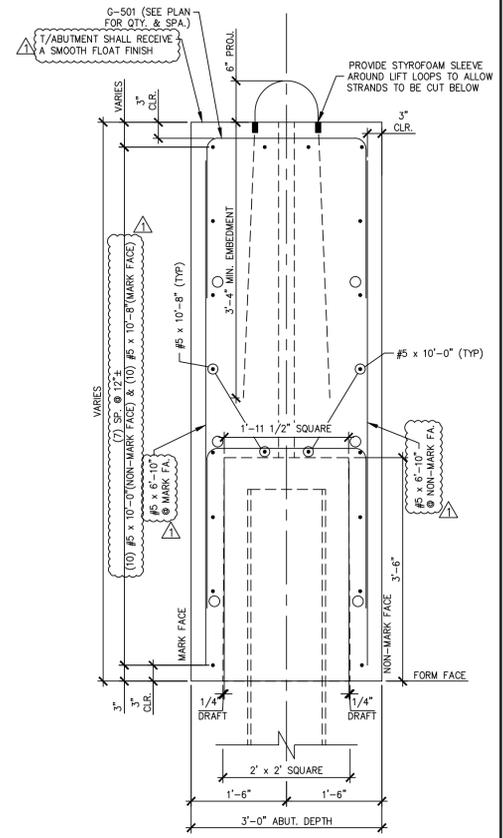


1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
AB3 1/2" = 1'-0"

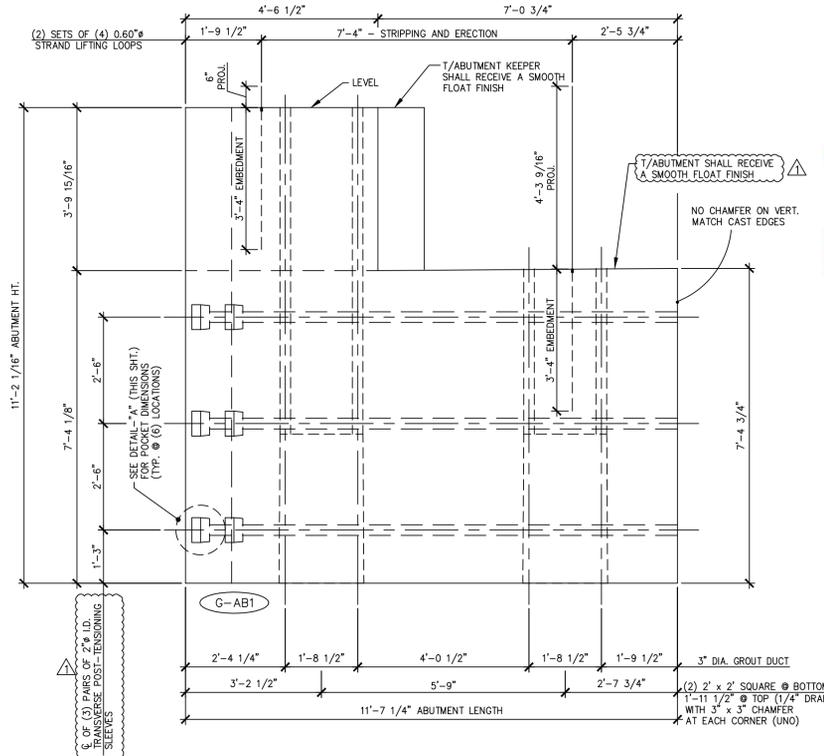
NOTE: PILE VOIDS TO BE FORMED WITH REMOVABLE FORMWORK.



3 ABUTMENT REINFORCING PLAN VIEW IN FORM  
AB3 1/2" = 1'-0"



A ABUTMENT SECTION  
AB3 3/4" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEVATION  
AB3 1/2" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**SHOP DRAWING REVIEW**

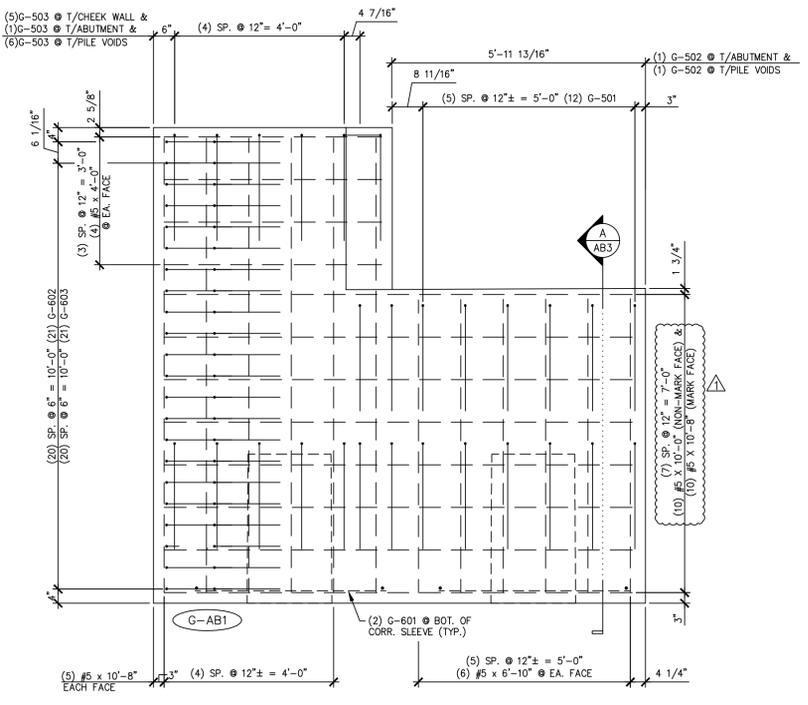
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**VHB Vanasse Hangen Brustlin, Inc.**  
7056 US Route 7  
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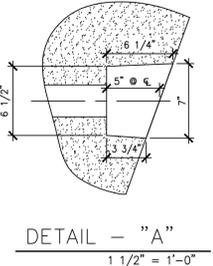
Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014



4 ABUTMENT REINFORCING MARK FACE ELEVATION  
AB3 1/2" = 1'-0"

4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	G-501	#5 BENT BAR	12
2	G-502	#5 BENT BAR	2
3	G-503	#5 BENT BAR	12
4		#5 x 4'-0"	10
5		#5 x 6'-10"	12
6		#5 x 10'-0"	10
7		#5 x 10'-8"	20
8			
9	G-601	#6 BENT BAR	4
10	G-602	#6 BENT BAR	22
11	G-603	#6 BENT BAR	22
12			
13			
14			
15			
16			
17			
18		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2
19			
20			



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

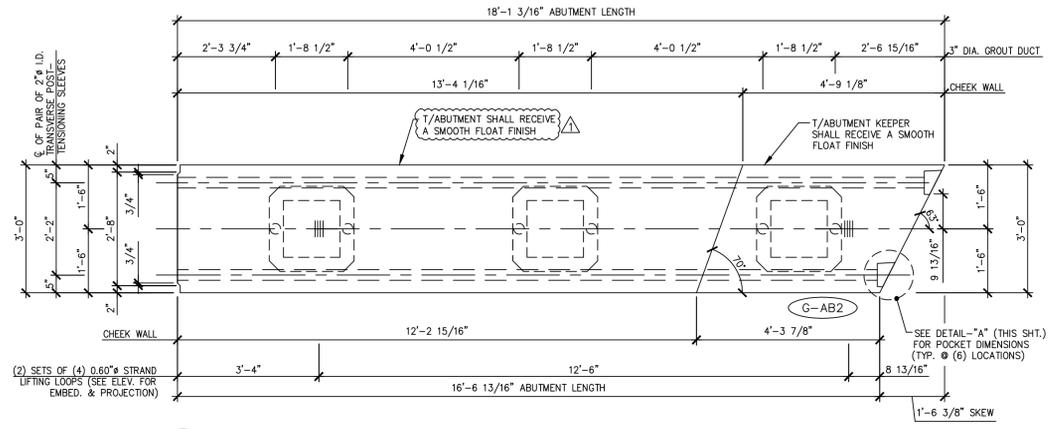
APPROVAL STAMP:

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Precast & Prestress Manufacturer N.T.S.  
2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014 SCALE: NOTED
TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	CHKD: JJ/KLT DFTM:AA1/RWS JOB NO: 23420-014
PRECAST ABUTMENT DETAILS	DWG. NO: AB3

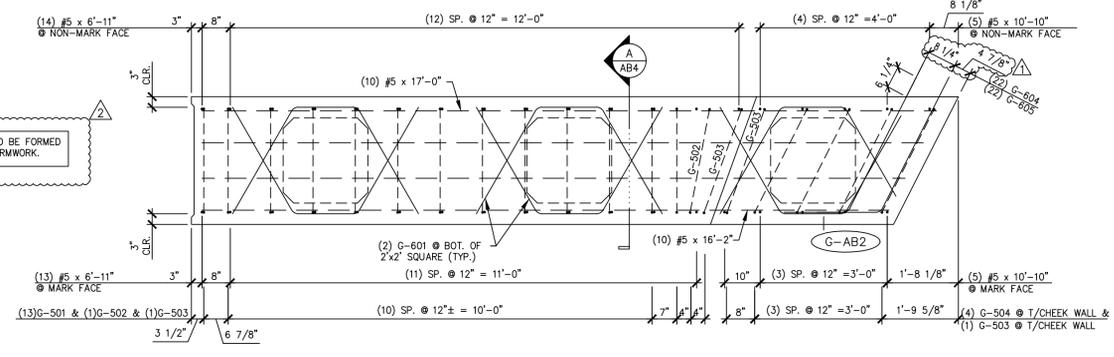
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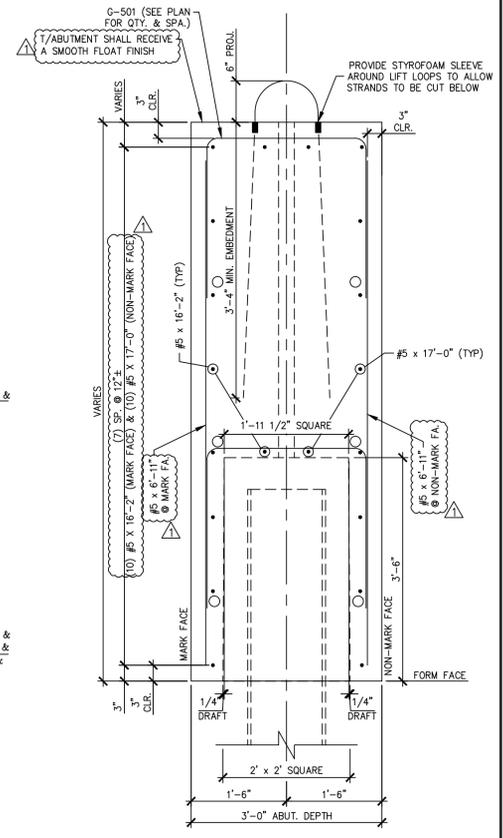


1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
AB4 1/2" = 1'-0"

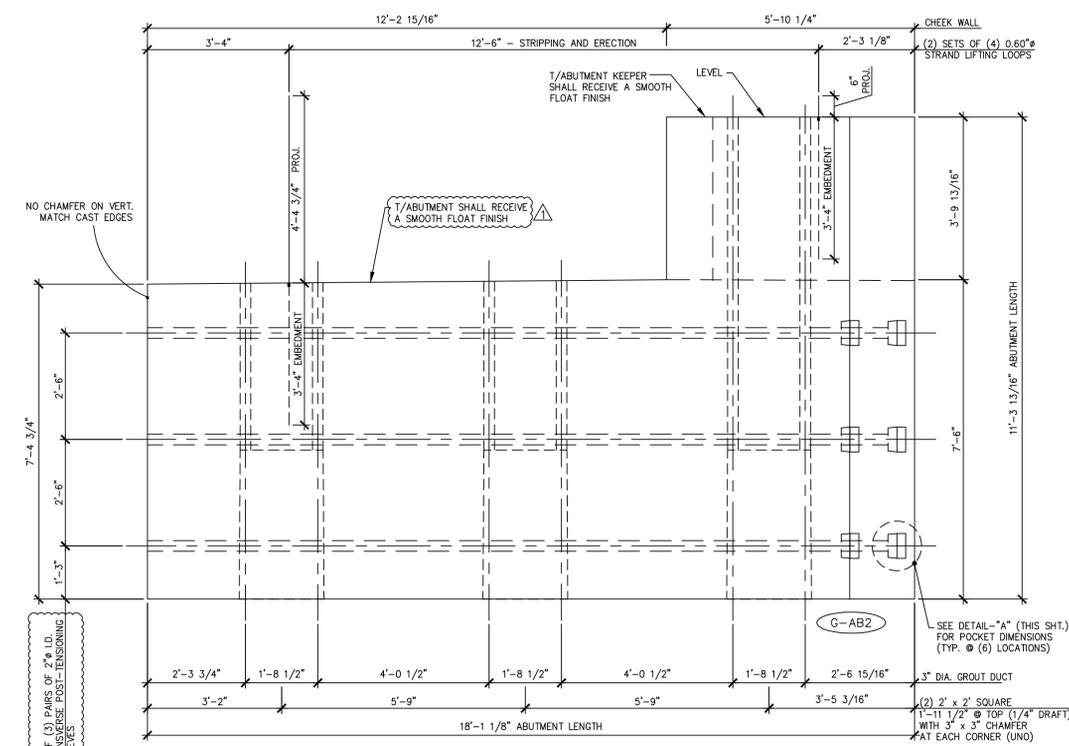
NOTE: PILE VOIDS TO BE FORMED WITH REMOVABLE FORMWORK.



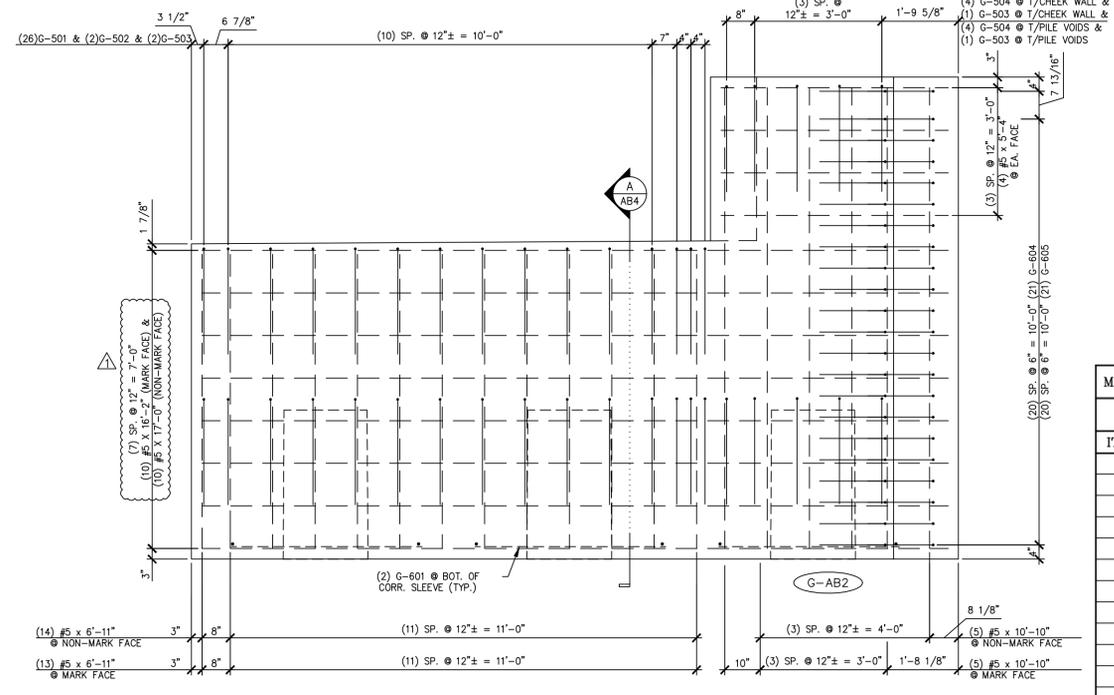
3 ABUTMENT REINFORCING PLAN VIEW IN FORM  
AB4 1/2" = 1'-0"



A ABUTMENT SECTION  
AB4 3/4" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEVATION  
AB4 1/2" = 1'-0"

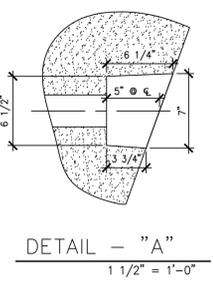


4 ABUTMENT REINFORCING MARK FACE ELEVATION  
AB4 1/2" = 1'-0"

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	G-501	#5 BENT BAR	26
2	G-502	#5 BENT BAR	2
3	G-503	#5 BENT BAR	4
4	G-504	#5 BENT BAR	8
5		#5 x 5'-4"	10
6		#5 x 6'-11"	27
7		#5 x 10'-10"	10
8		#5 x 16'-2"	10
9		#5 x 17'-0"	10
10			
11	G-601	#6 BENT BAR	6
12	G-604	#6 BENT BAR	22
13	G-605	#6 BENT BAR	22
14			
15			
16			
17			
18		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2
19			
20			

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

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014



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

**SHOP DRAWING REVIEW**

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**Vanasse Hangen Brustlin, Inc.**  
Job Number: 57427.00  
7056 US Route 7  
North Ferrisburgh, VT 05473  
802.465.7788  
Reviewed By: S.E. Burbank  
Date: 06/19/2014

APPROVAL STAMP:  
4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

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

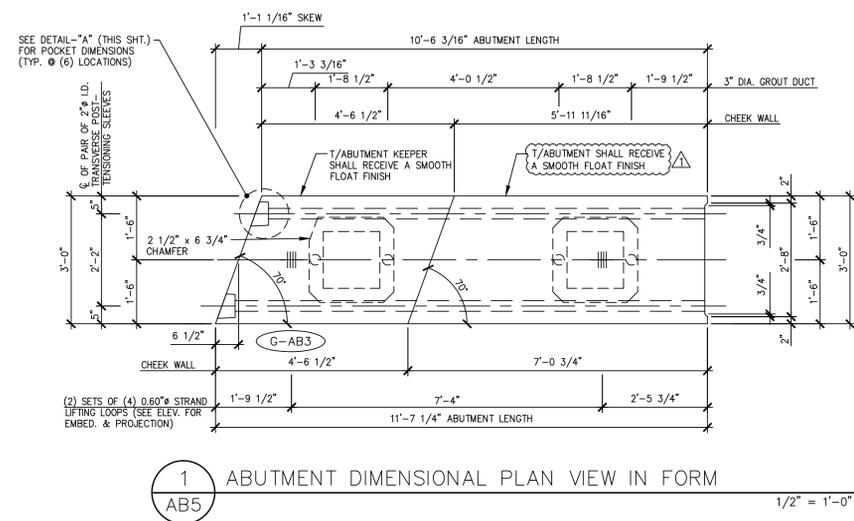
STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

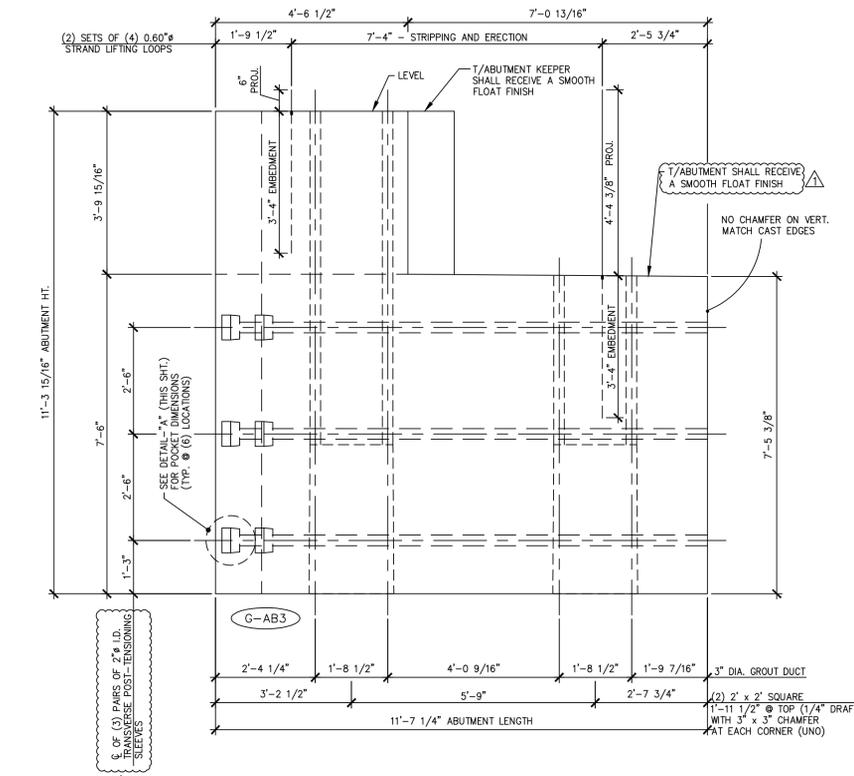
DATE: MAR. 04, 2014  
SCALE: NOTED  
CHKD: JJ/KLT DFTM:AA1/RWS  
JOB NO: 23420-014  
DWG. NO: AB4

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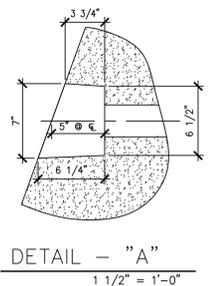


1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
AB5 1/2" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEVATION  
AB5 1/2" = 1'-0"

SHOP NOTE:  
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DETAIL - "A"  
1 1/2" = 1'-0"

Vermont Agency of Transportation  
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**SHOP DRAWING REVIEW**

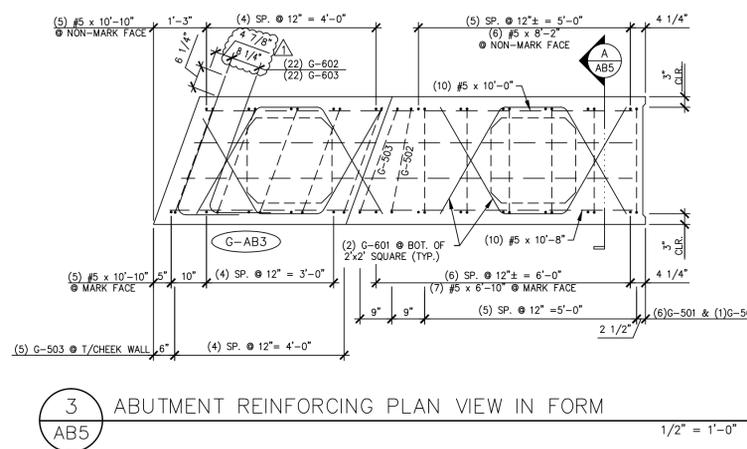
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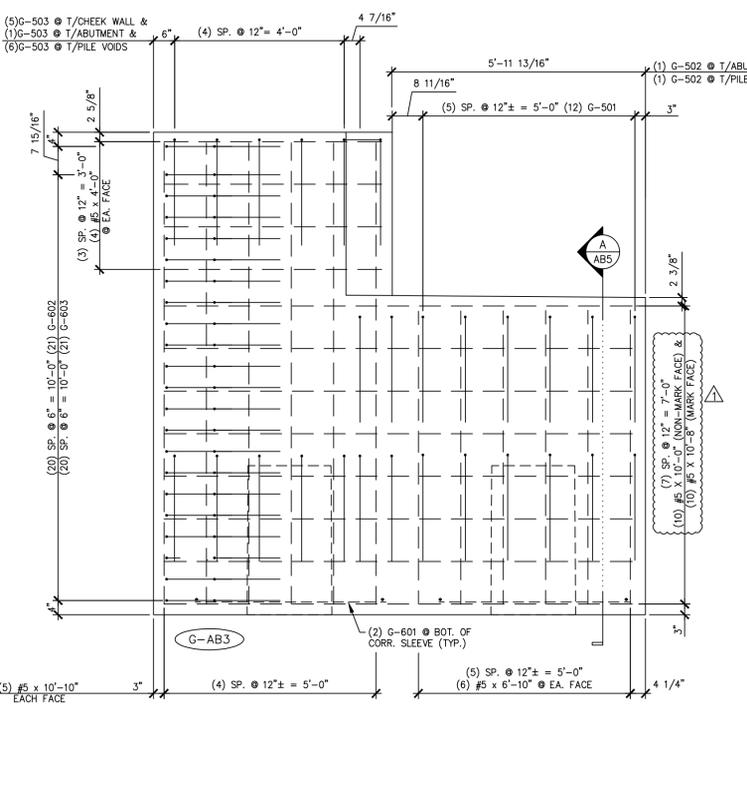
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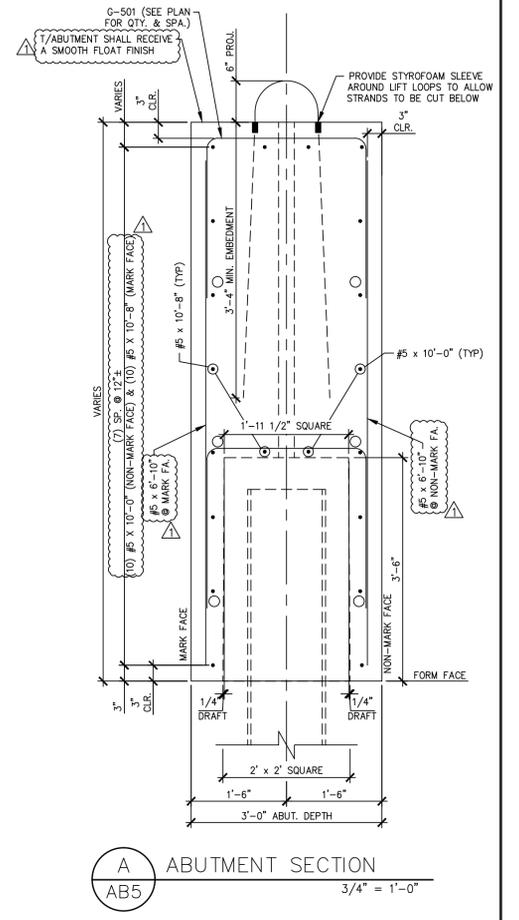


3 ABUTMENT REINFORCING PLAN VIEW IN FORM  
AB5 1/2" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEVATION  
AB5 1/2" = 1'-0"

4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED



A ABUTMENT SECTION  
AB5 3/4" = 1'-0"

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	G-501	#5 BENT BAR	12
2	G-502	#5 BENT BAR	2
3	G-503	#5 BENT BAR	12
4		#5 x 4'-0"	12
5		#5 x 6'-10"	10
6		#5 x 10'-0"	10
7		#5 x 10'-8"	10
8		#5 x 10'-10"	10
9			
10	G-601	#6 BENT BAR	4
11	G-602	#6 BENT BAR	22
12	G-603	#6 BENT BAR	22
13			
14			
15			
16			
17			
18		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2
19			
20			

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STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

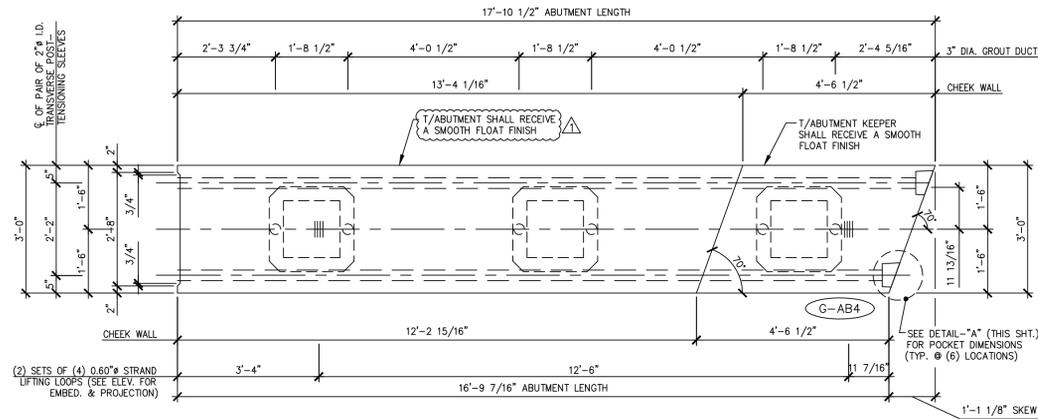
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JOB NO: 23420-014  
DWG. NO: AB5

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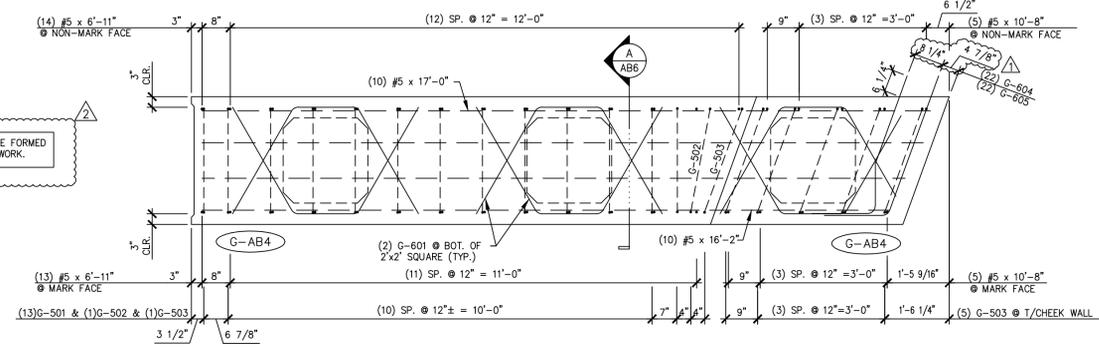
PRECAST ABUTMENT DETAILS

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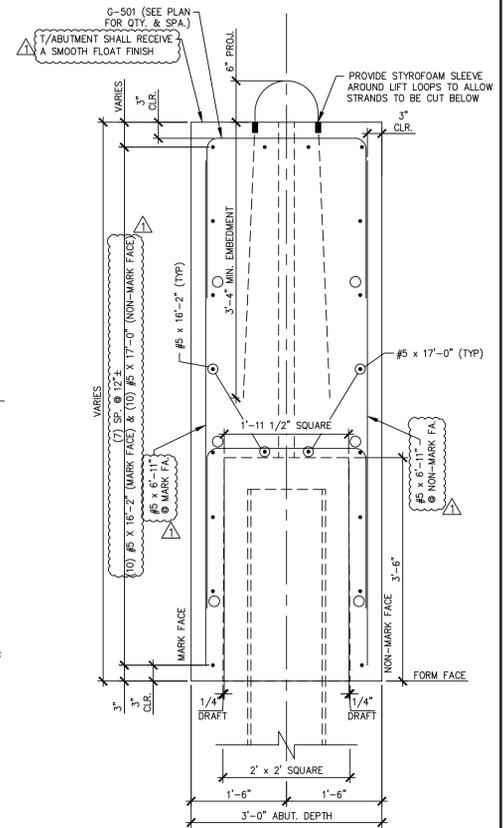


1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
AB6 1/2" = 1'-0"

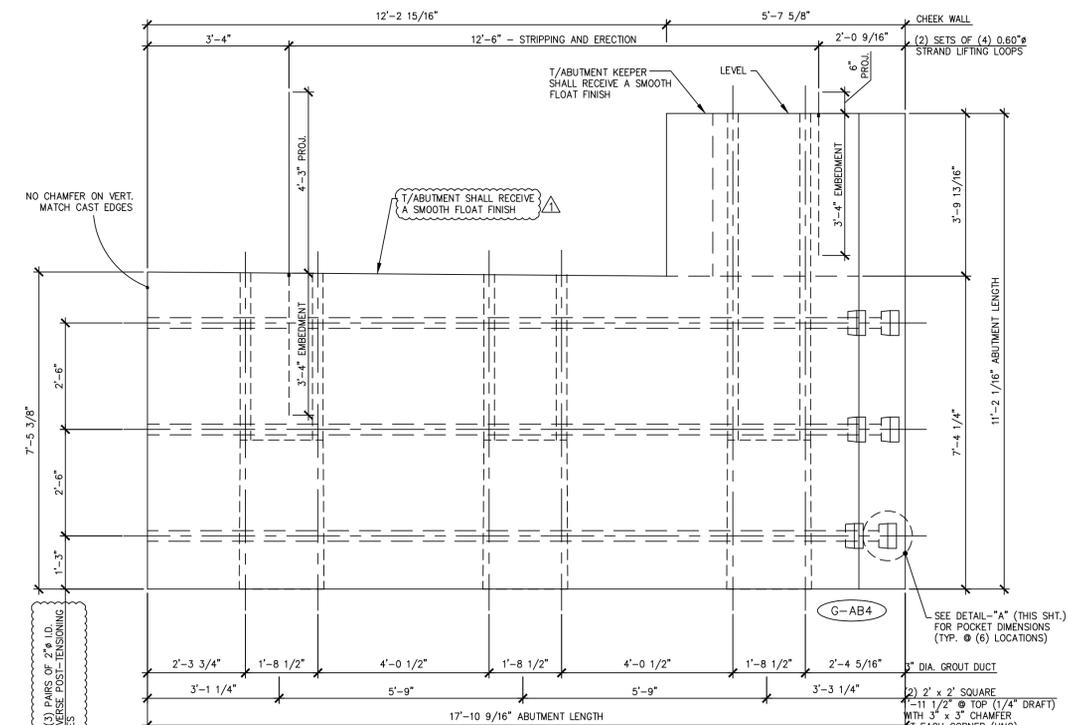
NOTE: PILE VOIDS TO BE FORMED WITH REMOVABLE FORMWORK.



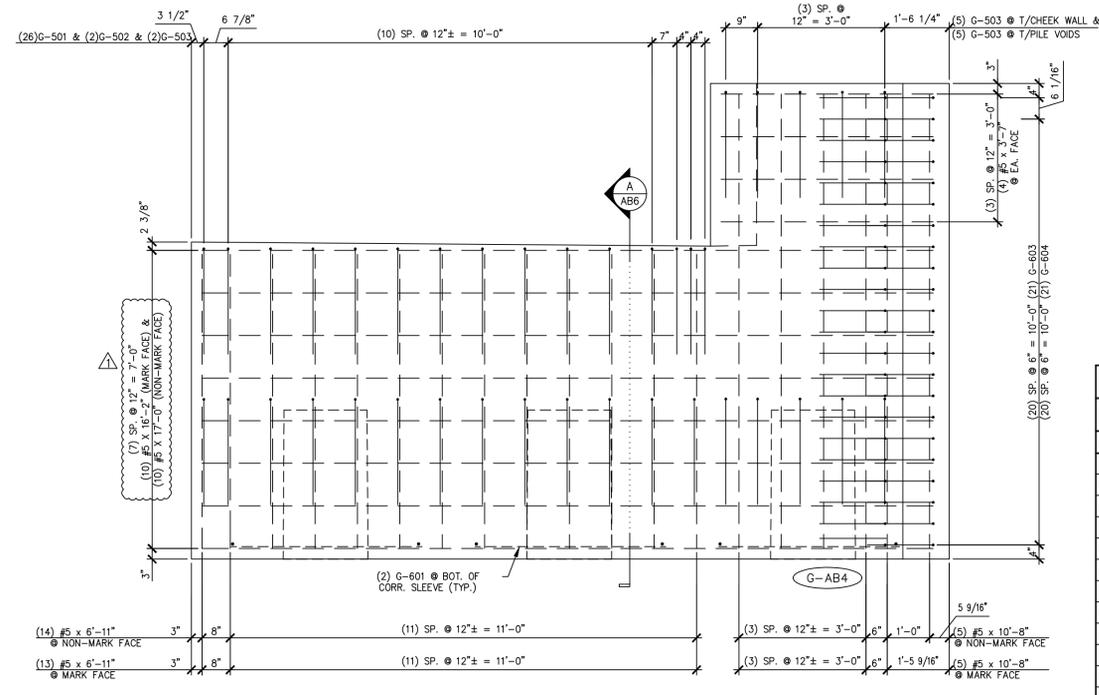
3 ABUTMENT REINFORCING PLAN VIEW IN FORM  
AB6 1/2" = 1'-0"



A ABUTMENT SECTION  
AB6 3/4" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEVATION  
AB6 1/2" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEVATION  
AB6 1/2" = 1'-0"

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	G-501	#5 BENT BAR	26
2	G-502	#5 BENT BAR	2
3	G-503	#5 BENT BAR	12
4		#5 x 3'-7"	10
5		#5 x 6'-11"	27
6		#5 x 10'-8"	10
7		#5 x 16'-2"	10
8		#5 x 17'-0"	10
9			
10			
11	G-601	#6 BENT BAR	6
12	G-604	#6 BENT BAR	22
13	G-605	#6 BENT BAR	22
14			
15			
16			
17			
18		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2
19			
20			

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

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MJC OK'D BY TAS  
June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**SHOP DRAWING REVIEW**

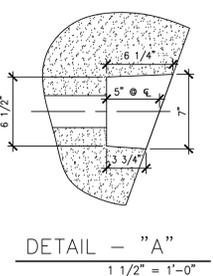
REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS

REJECTED  REVISE AND RESUBMIT  FURNISH AS CORRECTED

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

Job Number: 57427.00  
Reviewed By: S.E. Burtbank  
Date: 06/19/2014



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

4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

APPROVAL STAMP:

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

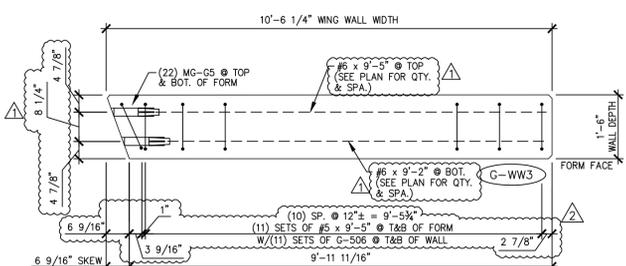
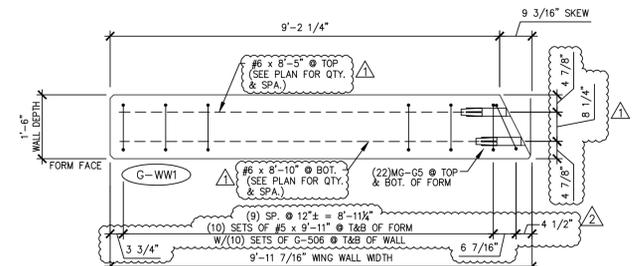
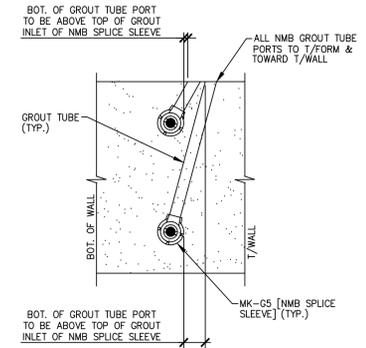
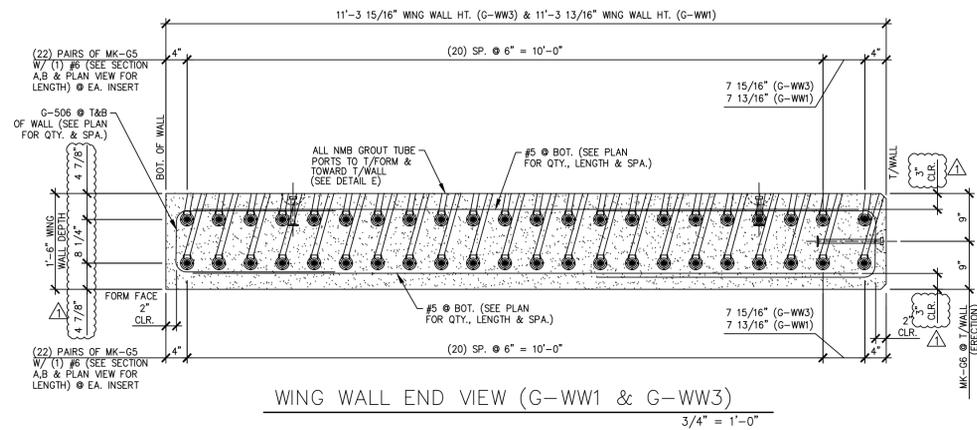
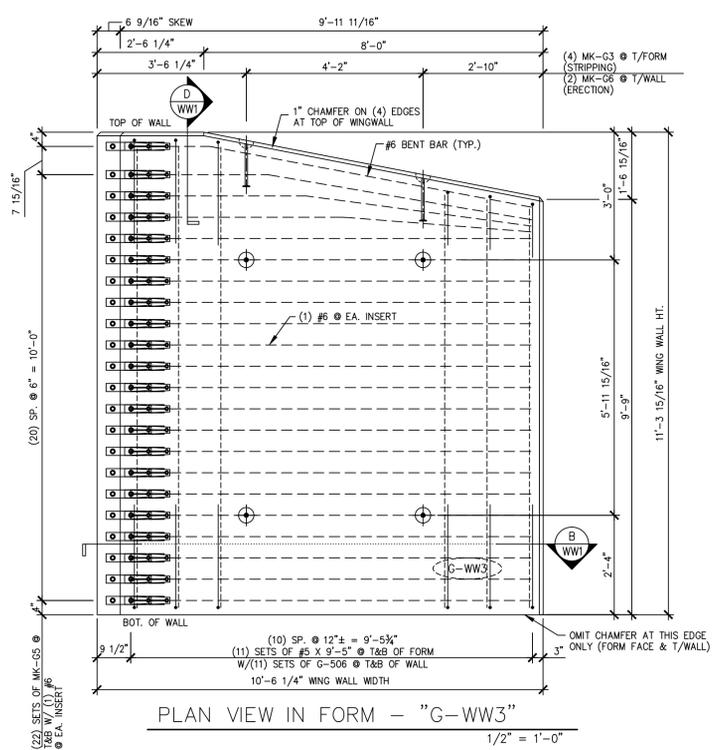
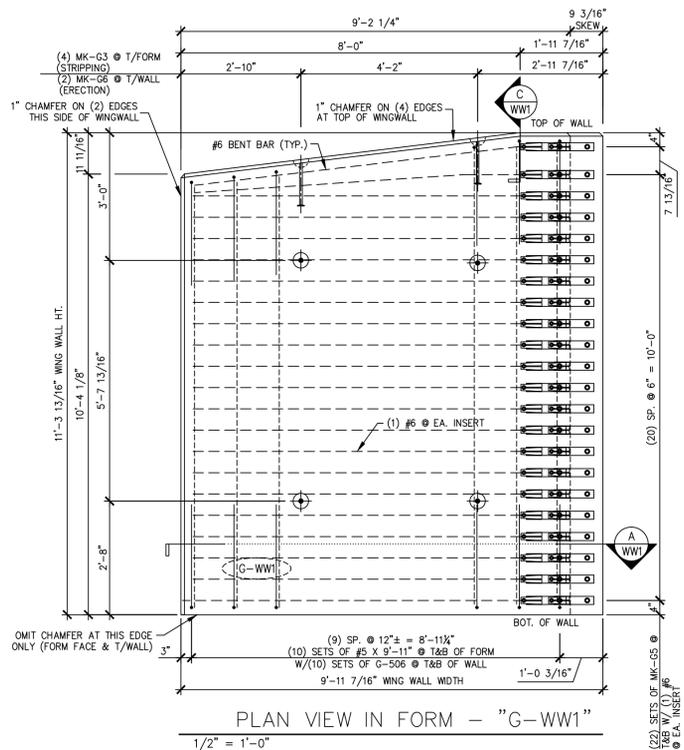
STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

DATE: MAR. 04, 2014  
SCALE: NOTED  
CHKD: JJ/KLT DFTM:AA1/RWS  
JOB NO: 23420-014  
DWG. NO: AB6

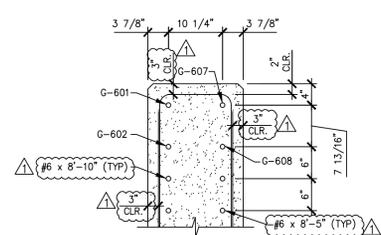
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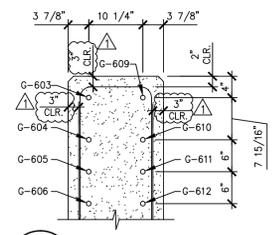


A G-WW1 SECTION  
1/2" = 1'-0"

B G-WW3 SECTION  
1/2" = 1'-0"



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



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

SHOP NOTE:  
ALL EDGES OF WING WALLS,  
FORM FACE & T/WALL FACE,  
SHALL RECEIVE A 1" CHAMFER  
(UNLESS NOTED OTHERWISE)

4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

MARK:	G-WW1	QTY.:	1	WT.:	11.81 T	VOL.:	5.84 cy
MARK:	G-WW3	QTY.:	1	WT.:	12.39 T	VOL.:	6.12 cy
MATERIAL LIST / WING WALL							
ITEM	MARK	DESCRIPTION	QTY./WING WALL				
			G-WW1	G-WW3			
1	G-506	#5 BENT BAR	22	24			
2	G-601	#6 BENT BAR	1	0			
3	G-602	#6 BENT BAR	1	0			
4	G-603	#6 BENT BAR	0	1			
5	G-604	#6 BENT BAR	0	1			
6	G-605	#6 BENT BAR	0	1			
7	G-606	#6 BENT BAR	0	1			
8	G-607	#6 BENT BAR	1	0			
9	G-608	#6 BENT BAR	1	0			
10	G-609	#6 BENT BAR	0	1			
11	G-610	#6 BENT BAR	0	1			
12	G-611	#6 BENT BAR	0	1			
13	G-612	#6 BENT BAR	0	1			
14							
15		#5 x 9'-5"	0	24			
16		#5 x 9'-11"	22	0			
17							
18		#6 x 8'-5"	20	0			
19		#6 x 8'-10"	20	0			
20		#6 x 9'-2"	0	18			
21		#6 x 9'-5"	0	18			
22							
23							
24							
25	MK-G3	4T x 9 1/2" SWFT LIFT LIFTER	4	4			
26	MK-G5	NMB SPLICE SLEEVE 6U-X(PC)	44	44			
27	MK-G6	20T x 19 3/4" SWFT LIFT LIFTER	2	2			

Vermont Agency of Transportation  
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June 18, 2014  
RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

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**Vanasse Hangen Brustlin, Inc.**  
7056 US Route 7  
North Ferrisburgh, VT 05473  
(802) 425-7789

Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014

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Precast & Prestress Manufacturer N.T.S.  
2444 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

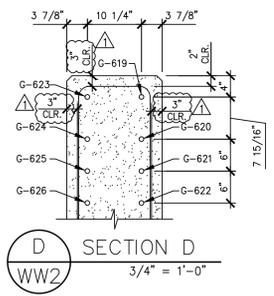
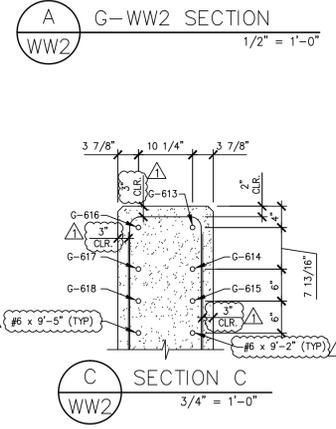
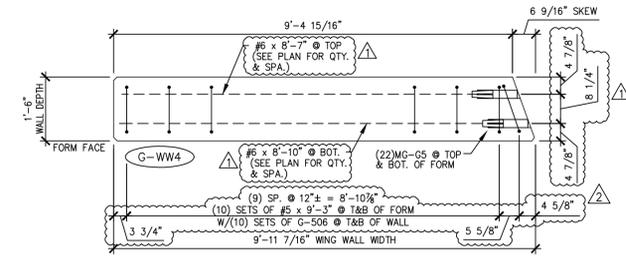
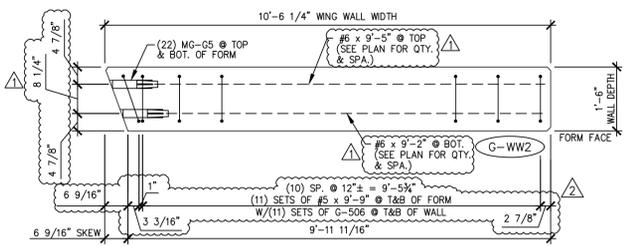
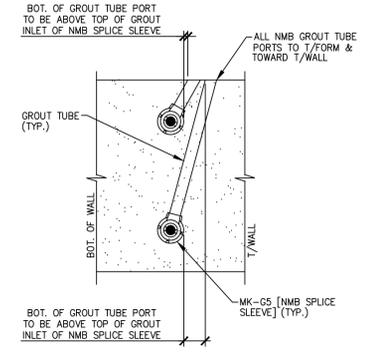
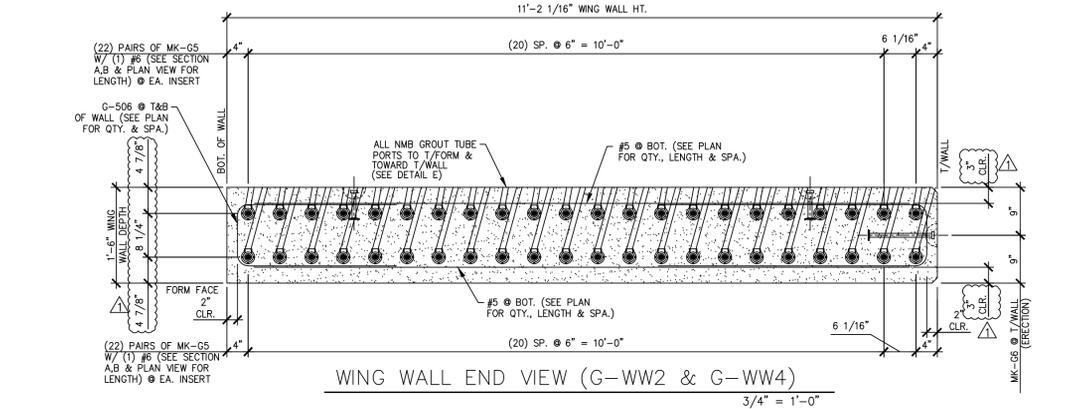
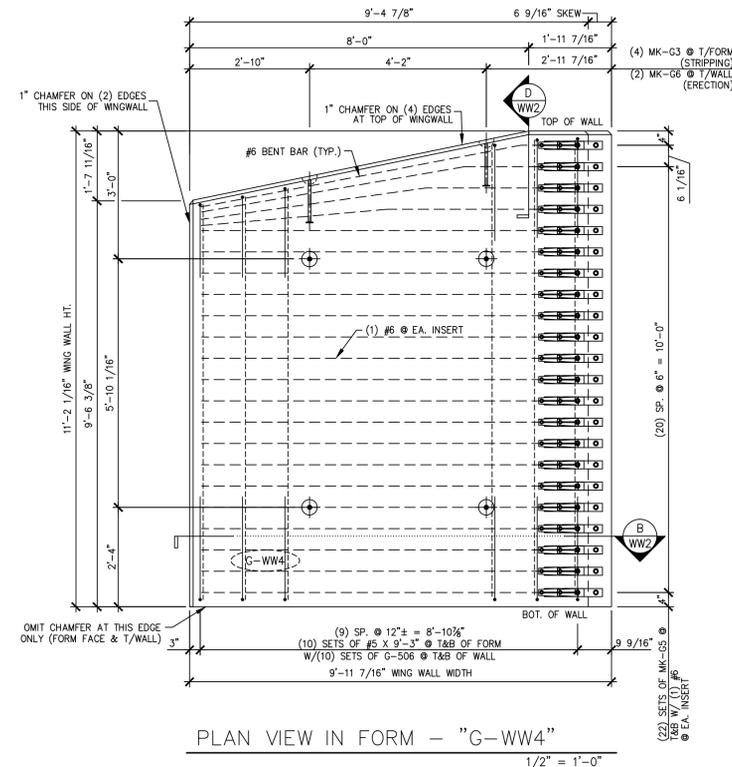
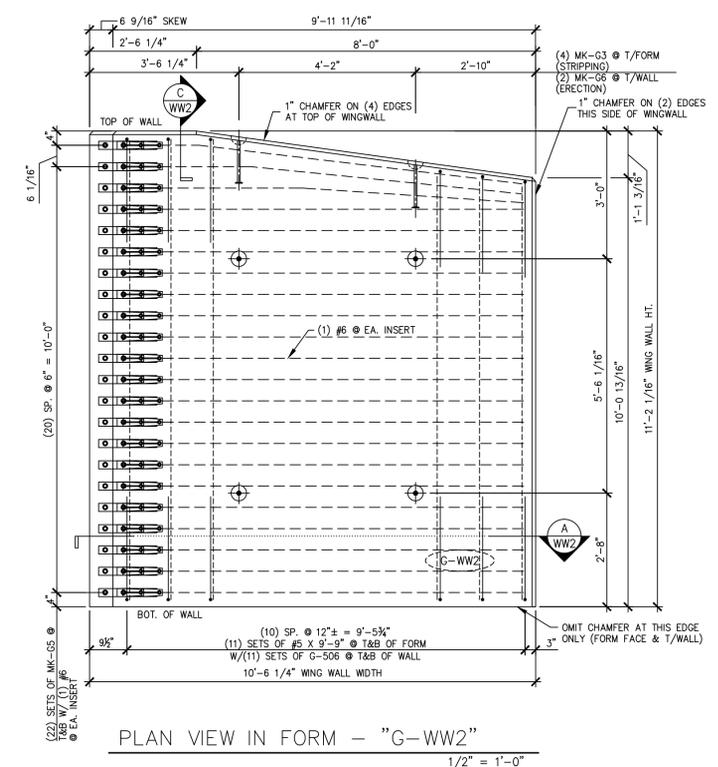
STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

PRECAST WING WALL DETAILS

DATE: MAR. 04, 2014  
SCALE: NOTED  
CHKD: JJ/KLT DFTM:AA1/RWS  
JOB NO: 23420-014  
DWG. NO: WW1

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SHOP NOTE:  
ALL EDGES OF WING WALLS, FORM FACE & T/WALL FACE, SHALL RECEIVE A 1" CHAMFER (UNLESS NOTED OTHERWISE)

4-7-14 REVISED AS NOTED  
5-6-14 REVISED AS NOTED

MARK:	G-WW2	QTY.:	1	WT.:	12.42 T	VOL.:	6.13 cy
MARK:	G-WW4	QTY.:	1	WT.:	11.49 T	VOL.:	5.68 cy

MATERIAL LIST / WING WALL					
ITEM	MARK	DESCRIPTION	QTY./WING WALL		
			G-WW2	G-WW4	
1	G-506	#5 BENT BAR	22	22	
2	G-613	#6 BENT BAR	1	0	
3	G-614	#6 BENT BAR	1	0	
4	G-615	#6 BENT BAR	1	0	
5	G-616	#6 BENT BAR	1	0	
6	G-617	#6 BENT BAR	1	0	
7	G-618	#6 BENT BAR	1	0	
8	G-619	#6 BENT BAR	0	1	
9	G-620	#6 BENT BAR	0	1	
10	G-621	#6 BENT BAR	0	1	
11	G-622	#6 BENT BAR	0	1	
12	G-623	#6 BENT BAR	0	1	
13	G-624	#6 BENT BAR	0	1	
14	G-625	#6 BENT BAR	0	1	
15	G-626	#6 BENT BAR	0	1	
16					
17					
18		#5 x 9'-3"	0	22	
19		#5 x 9'-9"	24	0	
20					
21					
22		#6 x 8'-7"	0	18	
23		#6 x 8'-10"	0	18	
24		#5 x 9'-2"	19	0	
25		#6 x 9'-5"	19	0	
26					
27	MK-G3	4T x 9 1/2" SWIFT LIFT LIFTER	4	4	
28	MK-G5	NMB SPLICE SLEEVE 6U-X(PC)	44	44	
29	MK-G6	20T x 19 3/4" SWIFT LIFT LIFTER	2	2	

Vermont Agency of Transportation  
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RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

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

Job Number: 57427.00  
Reviewed By: S.E. Burbank  
Date: 06/19/2014

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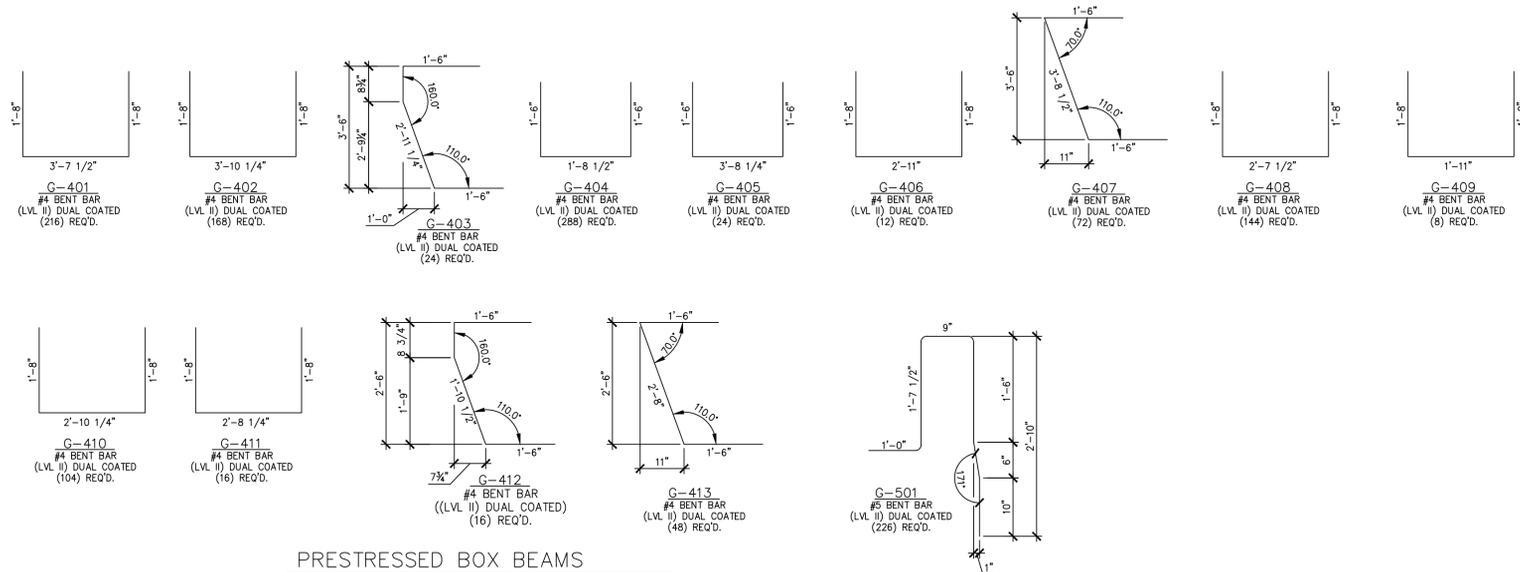
**J.P. CARRARA & SONS INC.**  
Precast & Prestress Manufacturer N.T.S.  
244 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF WINDHAM

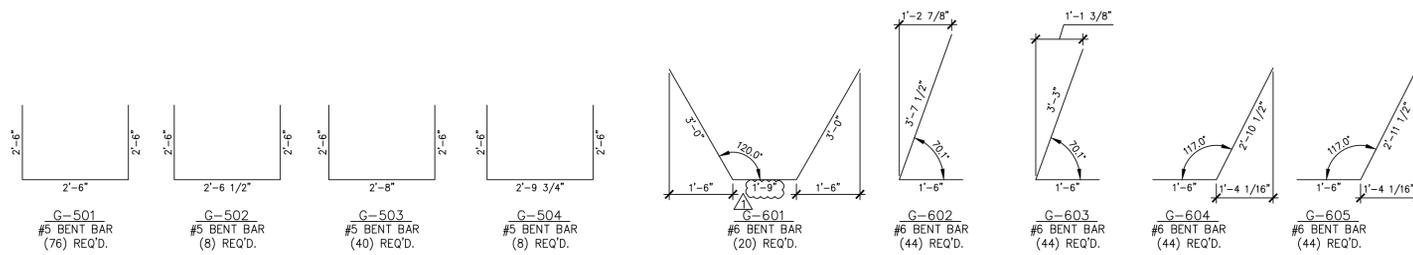
TOWN OF GUILFORD  
ROUTE NO. T.H.10, CLASS III (LOCAL ROAD)  
BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)

DATE: MAR. 04, 2014  
SCALE: NOTED  
CHKD: JJ/KLT DFTM:AA1/RWS  
JOB NO: 23420-014  
DWG. NO: WW2

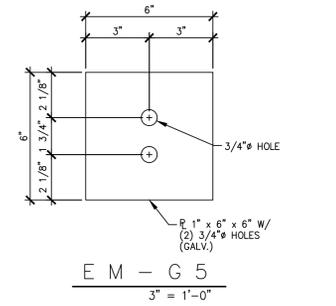
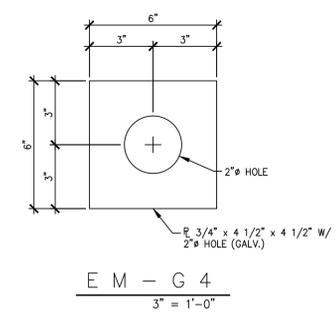
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PRESTRESSED BOX BEAMS



PRECAST ABUTMENTS



MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		42	#5 x 27'-7" ((LEVEL II) DUAL COATED)	
2		42	#5 x 32'-7" ((LEVEL II) DUAL COATED)	
3				
4	MK-G1	36	1" GUARD RAIL ANCHOR "U" BOLTS W/ (4)NUTS, (4)WASHERS (SUPPLIED BY OTHERS)	ASTM A449 OR 4325 (GALV.)
5				
6		20	SET OF (3) 0.60" x 270 KSI STRAND LIFTING LOOPS	
7				
8				
9	EM-G1	10	1 1/2" x 4'-10 3/4" ANCHOR ROD (GALV.)	FOR ERECTION
10	EM-G2	10	1 1/2" HEAVY HEX NUT (GALV.) & 1 1/2" STD. WASHER (GALV.)	FOR ERECTION
11	EM-G3	10	1/2" x 5" x 5" W/ 1 3/4" HOLE (GALV.)	FOR ERECTION
12	EM-G4	8	3/4" x 6" x 6" W/ 2" HOLE (GALV.)	FOR ERECTION; SEE DETAIL THIS SHEET
13	EM-G5	4	1" x 6" x 6" W/ (2) 3/4" HOLES (GALV.)	FOR ERECTION; SEE DETAIL THIS SHEET
14		8	0.6" x 26'-0" POLY-STRAND	FOR ERECTION
15				
16		20	#5 x 3'-7"	
17		20	#5 x 4'-0"	
18		24	#5 x 6'-10"	
19		54	#5 x 6'-11"	
20		20	#5 x 10'-0"	
21		42	#5 x 10'-8"	
22		20	#5 x 10'-10"	
23		20	#5 x 17'-0"	
24				
25		8	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
26				
27	EM-G4	12	3/4" x 6" x 6" W/ 2" HOLE (GALV.)	FOR ERECTION; SEE DETAIL THIS SHEET
28		24	0.5" x 34'-0" POLY-STRAND	FOR ERECTION
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

PRESTRESSED BOX BEAMS  
PRECAST ABUTMENTS

Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY MJC OK'D BY TAS  
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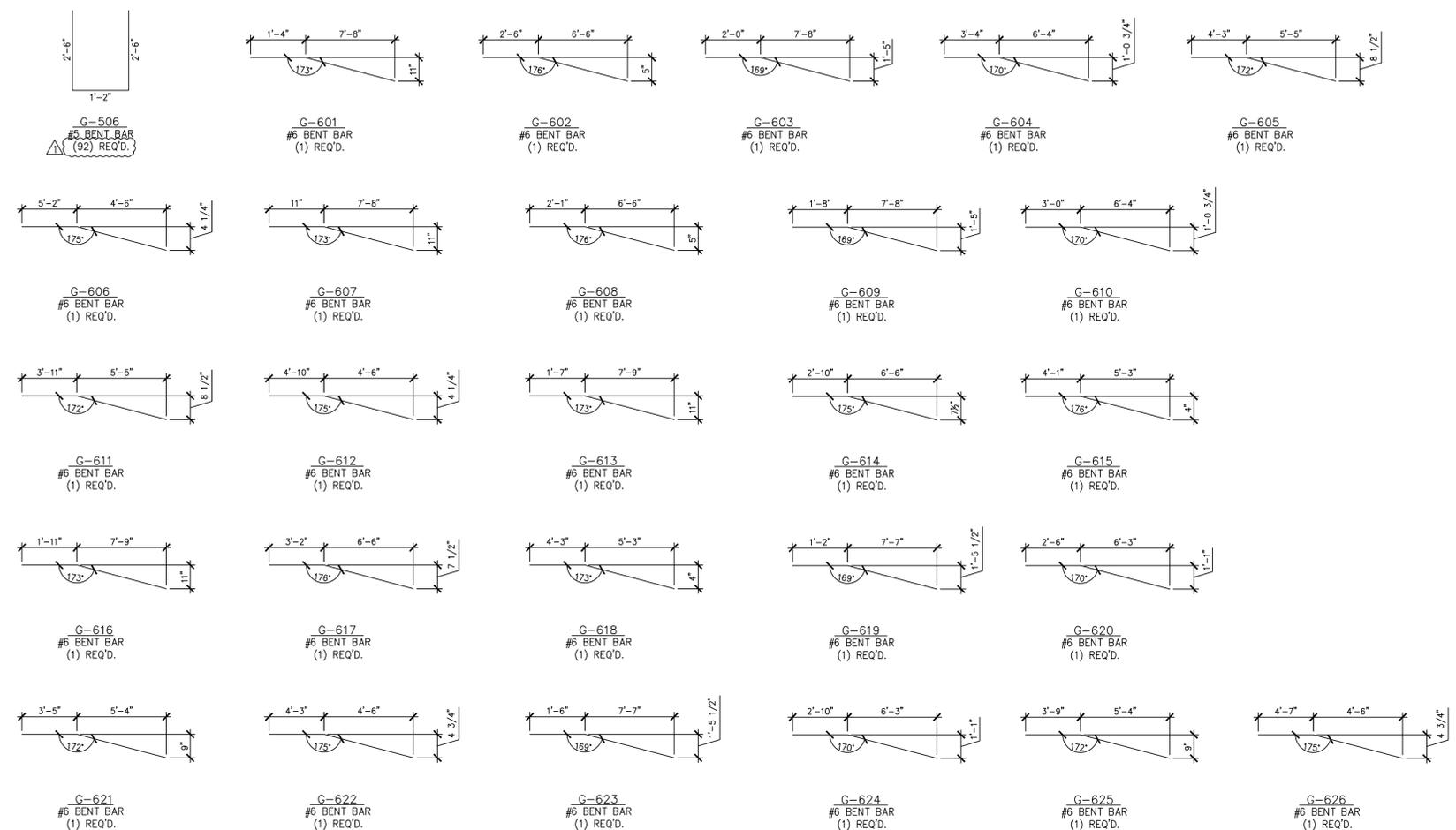
Job Number: 57427.00  
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4-7-14 REVISED AS NOTED

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer N.T.S. 2464 OASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014 SCALE: NOTED
	TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	CHKD: JJ/KLT DFTM:AA7/RWS JOB NO.: 23420-014
	MATERIALS LIST	DWG. NO: M1

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PRECAST WINGWALLS

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		22	#5 x 9'-3"	
2		24	#5 x 9'-5"	
3		24	#5 x 9'-9"	
4		22	#5 x 9'-11"	
5				
6				
7		20	#6 x 8'-5"	
8		18	#6 x 8'-7"	
9		38	#6 x 8'-10"	
10		37	#6 x 9'-2"	
11		37	#6 x 9'-5"	
12				
13				
14				
15				
16				
17	MK-G3	16	4T x 9 1/2" SWFT LIFT LIFTER	
18	MK-G5	176	NMB SPLICE SLEEVE 6U-X(PG)	ORDER (3) EXTRA FOR TESTING - TOTAL (179)
19	MK-G6	8	20T x 19 3/4" SWFT LIFT LIFTER	
20				
21				
22				

PRECAST WING WALLS

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY MJC OK'D BY TAS

June 18, 2014

RESUBMIT No Approved  
BY M. J. Chenette DATE 06/19/2014

**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

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

**VHB Vanasse Hangen Brustlin, Inc.** Job Number: 57427.00  
7056 US Route 7 Reviewed By: S.E. Burbank  
North Ferrisburgh, VT 05473 Date: 06/19/2014  
802.425.7798

4-7-14 REVISED AS NOTED

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer N.T.S. <small>2484 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDHAM	DATE: MAR. 04, 2014
	TOWN OF GUILFORD ROUTE NO. T.H.10, CLASS III (LOCAL ROAD) BRIDGE NO.: 65 PROJECT NO.: BRO 1442 (36)	SCALE: NOTED CHKD: JJ/KLT DFTM:AA1/RWS JOB NO: 23420-014
	MATERIALS LIST	DWG. NO: <b>M2</b>

**Eriksson technologies** 813.989.3317  
TAMPA, FL LRFD.COM  
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