

# LETTER OF TRANSMITTAL

TRANSMITTAL # 4

**J.P. CARRARA & SONS, INC.**

2464 CASE ST  
MIDDLEBURY, VT 05753  
T: 802.388.6363  
F: 802.388.9010

<b>DATE:</b> 4.6.15	<b>JOB #</b> 23454-014
<b>ATTN:</b> Brian Emmons/T.Buck Construction Inc.	
<b>RE:</b> Burke, VT BRF 0269 (13)	

**We are sending you:**

Shop Drawings	<input checked="" type="checkbox"/>	Change Order	<input type="checkbox"/>	Copy of Letter	<input type="checkbox"/>
Plans	<input type="checkbox"/>	Attached	<input checked="" type="checkbox"/>	Separate Cover	<input type="checkbox"/>
Prints	<input type="checkbox"/>	Specifications	<input type="checkbox"/>	(Via) _____	
Samples	<input type="checkbox"/>	Other:	_____		

Copies	Date	Qty.	Description
1	4.6.15	1	Shop Drawings (Rev 2) Submitted for Approval

**These are transmitted as checked below:**

For approval	<input checked="" type="checkbox"/>	Approved as submitted	<input type="checkbox"/>	Submit	<input checked="" type="checkbox"/>
For your use	<input type="checkbox"/>	Approved as noted	<input type="checkbox"/>	Resubmit	<input type="checkbox"/>
As requested	<input type="checkbox"/>	Returned /Notation	<input type="checkbox"/>	Return	<input type="checkbox"/>
For review	<input type="checkbox"/>	Loaned Prints/Returned	<input type="checkbox"/>	Other	<input type="checkbox"/>

**Remarks:**

Please see attached Burke shop drawings for approval.

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**Please consider an expeditious review of components requiring LVL II reinforcement (Dual Coated / Z Bar) as there is currently a one month production lead time on Zbar/Rebar products.**

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Specification subsections 510.04(b)(7) and 540.04(b)(7) allow for the use of the previously submitted mixes in lieu of submitting additional mix designs. **Previously approved mix designs are being resubmitted as requested for Burke precast concrete components and demonstrate updated aggregate properties with NO OTHER CHANGES TO PREVIOUSLY SUBMITTED/CURRENTLY APPROVED MIX DESIGNS.**

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Copy to: \_\_\_\_\_ Signed:  \_\_\_\_\_  
Joe Gallese-PM

**ABUTMENT & APPROACH SLAB GENERAL NOTES**

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
- MIN. CONCRETE STRENGTH AT STRIPPING SHALL BE 4,000 PSI (UNLESS NOTED OTHERWISE).
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED) (ASTM A-1025) OR LEVEL I (EPOXY) STEEL, (AS NOTED ON SHOP DRAWINGS).
- THE TOP OF PRECAST CONCRETE UNITS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN. REINFORCING STEEL PROJECTING FROM APPROACH SLABS WILL BE COVERED DURING SAND BLASTING SO THAT COATING IS NOT DAMAGED.
- APPROACH SLABS SHALL BE HANDLED AND ERRECTED USING THE LIFTING INSERTS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. APPROACH SLABS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS AT 5th POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC. ONCE ABUTMENTS HAVE BEEN ERRECTED, CUT LIFTING LOOPS AT RECESS, EPOXY PAINT AND PATCH AS REQUIRED (BY OTHERS).
- ABUTMENTS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. THE PINS OF THE SHACKLES SHALL BE PLACED THROUGH THE LIFTING LOOPS. SEE DETAIL, SHEET C1. VERTICAL FORCES ONLY SHALL BE APPLIED TO THE LIFTING LOOPS. ABUTMENTS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS AT 5th POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC. ONCE ABUTMENTS HAVE BEEN ERRECTED, CUT LIFTING LOOPS AT RECESS, EPOXY PAINT AND PATCH AS REQUIRED (BY OTHERS).
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.  
DESIGN MIX:  
APPROACH SLABS: J.P.C. BRIDGE MIX #445MSCC  
ABUTMENTS: J.P.C. BRIDGE MIX #445MSCC
- 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 POLY WILL BE PLACED OVER THE UNIT. NATURAL CURE WITH NO EXTERNAL HEAT APPLIED. CURING SHALL CONTINUE UNTIL STRIPPING STRENGTH HAS BEEN ACHIEVED.

SHEAR KEY SURFACES SHALL HAVE 1/8" COARSE AGGREGATE EXPOSED WITH A PROFILE SIMILAR TO ICRI ROUGHNESS PLAQUE CSP #7 COPYRIGHT 1997.

**NEXT BEAM GENERAL NOTES**

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 8,000 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED).
- PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60" x 270 KSI T-HIRE 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 COATED WITH TWO PART EPOXY PAINT SYSTEM.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
- THE TOP OF BEAMS SHALL RECEIVE A SMOOTH SCREED (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED TO 1/8" AMPLITUDE.
- BEAMS SHALL BE HANDLED AND ERRECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL AND VERTICAL FORCES ARE APPLIED TO EACH OF THE TWO LIFTING LOOPS AT EACH END OF THE BEAM. THE PINS OF THE SHACKLES SHALL BE PLACED THROUGH THE LIFTING LOOPS. SEE DETAIL, THIS SHEET. BEAMS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS. TIMBER SUPPORTS SHALL BE PLACED WITHIN CLOSE PROXIMITY TO THE SHIPPING SLEEVE LOCATION AS SHOWN BELOW, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.  
DESIGN MIX: J.P.C.  
NEXT BEAM MIX #430M WITH 5 GALLONS OF CORROSION INHIBITOR
- 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 10°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.
- CONTRACTOR SHALL PROVIDE APPROPRIATE FIELD WATERPROOFING TO GROUDED AND/OR EPOXIED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUDED AND/OR EPOXIED SHEAR KEYS.

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

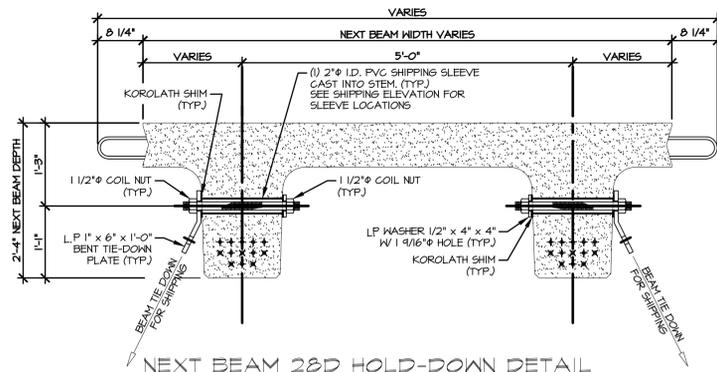
SIZE & GRADE: 0.60" x 270 KSI  
AREA: 0.211 IN<sup>2</sup>  
TENSION: 44,000 LB. EACH STRAND  
GRIP-TO-SLIP: 252'-0" = 252.00'  
Es = 28,500,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)  
EXAMPLE:  
$$\Delta = \frac{PL}{AE} = \frac{(44,000 - 3,000) \times 252.00 \times 12}{0.211 \times 28,500,000} = 20.041"$$
  
THEREFORE: (TOLERANCES ± 5%)  
Δ UPPER LIMIT = 1.05 x 20.041" = 21.05" = 21"  
Δ LOWER LIMIT = 0.95 x 20.041" = 19.04" = 19"  
EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE:  
$$\Delta P = \frac{0.5 \times 41,000}{20.041} = 1,023 \text{ LBS.}$$
  
TOTAL TENSIONING FORCE = 44,000 + 1,023 = 45,023 LBS.  
ADDITIONALLY, INCREASED ELONGATION AND THE CORRESPONDING FORCE DUE TO FORM SHORTENING SHALL BE ACCOUNTED FOR IN THE CALCULATIONS USED FOR CONSTRUCTION PER PROVISION PCI MNL 116 5.3.13.

**STRAND TENSIONING PROCEDURE:**

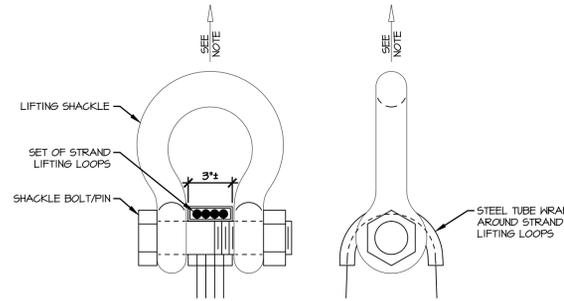
- PULL EACH STRAND INITIALLY TO 3,000\* LBS. AND MARK STRAND.
- THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,023\* LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 19" AND 21".
- \*NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.
- STRANDS IN BOTTOM TWO ROWS SHALL BE RE-PULLED TO VERIFY SHORTENING EFFECT OF SELF STRESSING BED. RE-PULL FORCE SHALL NOT INCLUDE OVER-PULL FOR SHORTENING.

**DRAWING INDEX**

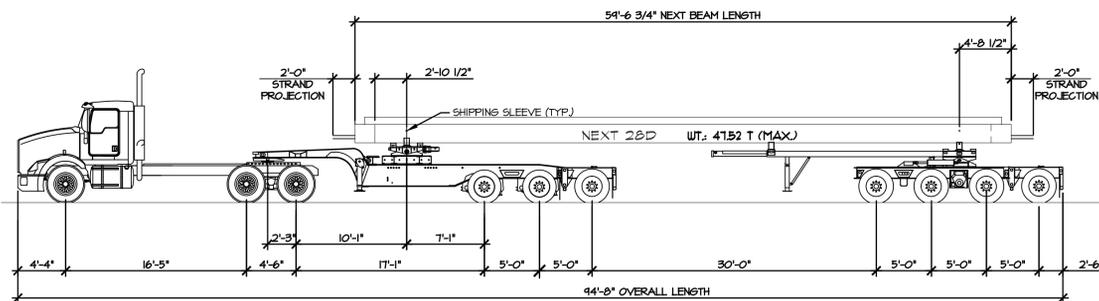
SHT. #	DRAWING TITLE	REV. #	REV. DATE
C1	COVER SHEET	2	04-03-15
F1	PRECAST ABUTMENT APPROACH SLAB & NEXT BEAM LAYOUT	2	04-03-15
F2	PRECAST ABUTMENT # 1 ELEVATION & SECTIONS	2	04-03-15
F3	PRECAST ABUTMENT # 2 ELEVATION	2	04-03-15
F4	TRANSVERSE SECTIONS & DETAILS	2	04-03-15
AB1	PRECAST ABUTMENT FLANS & SECTION	2	04-03-15
AB2	PRECAST ABUTMENT # 1 DETAILS	2	04-03-15
AB3	PRECAST ABUTMENT # 2 DETAILS	2	04-03-15
AB4	PRECAST ABUTMENT # 3 DETAILS	2	04-03-15
AB5	PRECAST ABUTMENT # 4 DETAILS	2	04-03-15
AS1	PRECAST APPROACH SLAB DETAILS	2	04-03-15
AS2	PRECAST APPROACH SLAB DETAILS	2	04-03-15
AS3	PRECAST APPROACH SLAB DETAILS	2	04-03-15
NB1A	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB1B	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB1C	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB1D	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB2A	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB2B	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB2C	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB3A	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB3B	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB3C	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
NB3D	PRESTRESSED NEXT BEAM DETAILS	2	04-03-15
M1	MATERIALS LIST	2	04-03-15
M2	MATERIALS LIST	2	04-03-15
M3	MATERIALS LIST	2	04-03-15



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



LIFTING SHACKLE DETAILS  
N.T.S.



SHIPPING ELEVATION  
N.T.S.

DESIGN LIVE LOAD: HL-93

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY \_\_\_\_\_ OK'D BY \_\_\_\_\_  
April 6, 2015  
RESUBMIT No Approved AsNoted  
BY Rob Young DATE 04/13/2015

**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  APPROVED AS NOTED

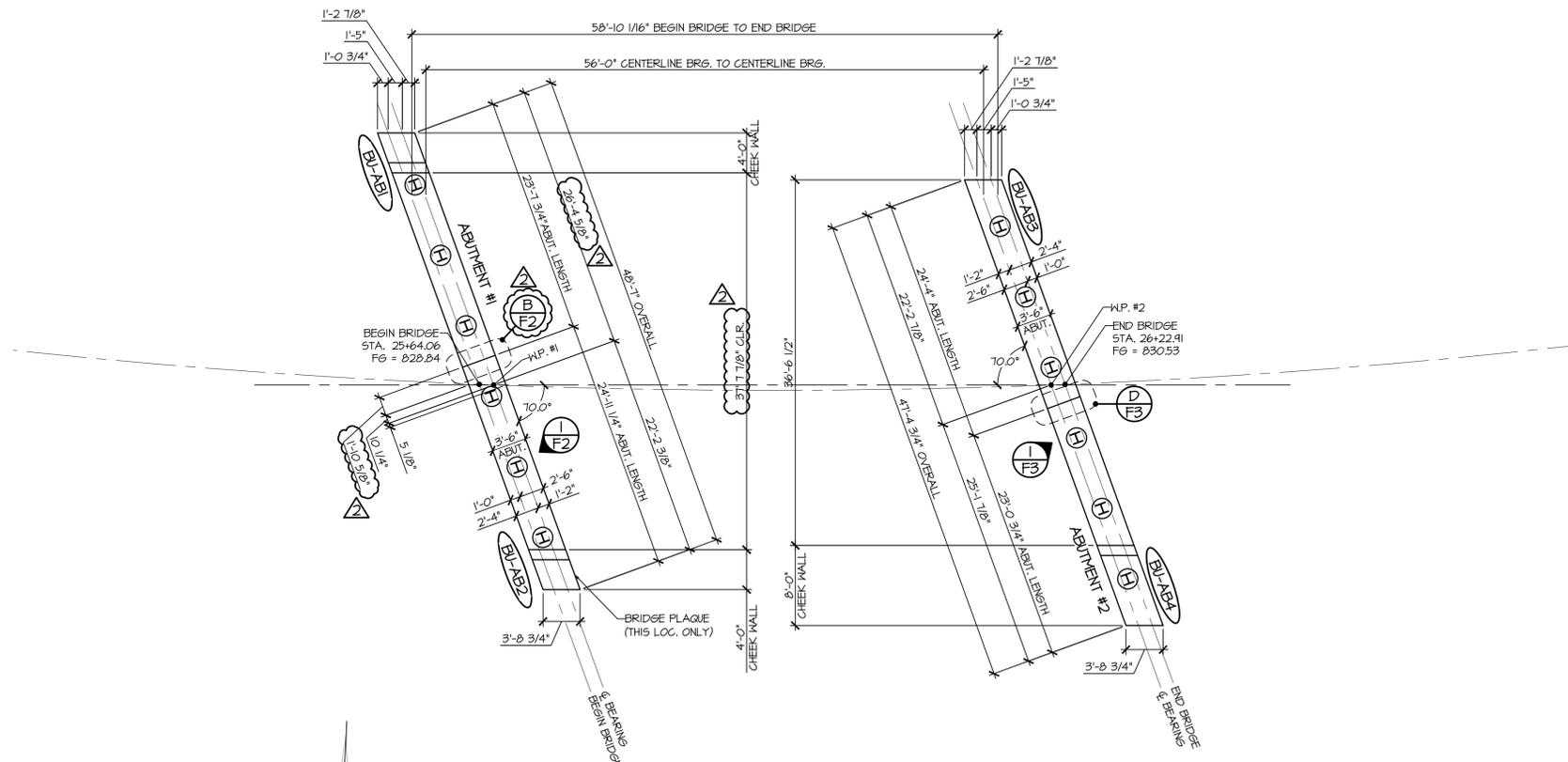
CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION 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 THEIR WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING THEIR WORK IN A SAFE AND SATISFACTORY MANNER.

CLD Consulting Engineers  
340 Commercial Street  
Manchester, NH 03101  
603-666-6222  
Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

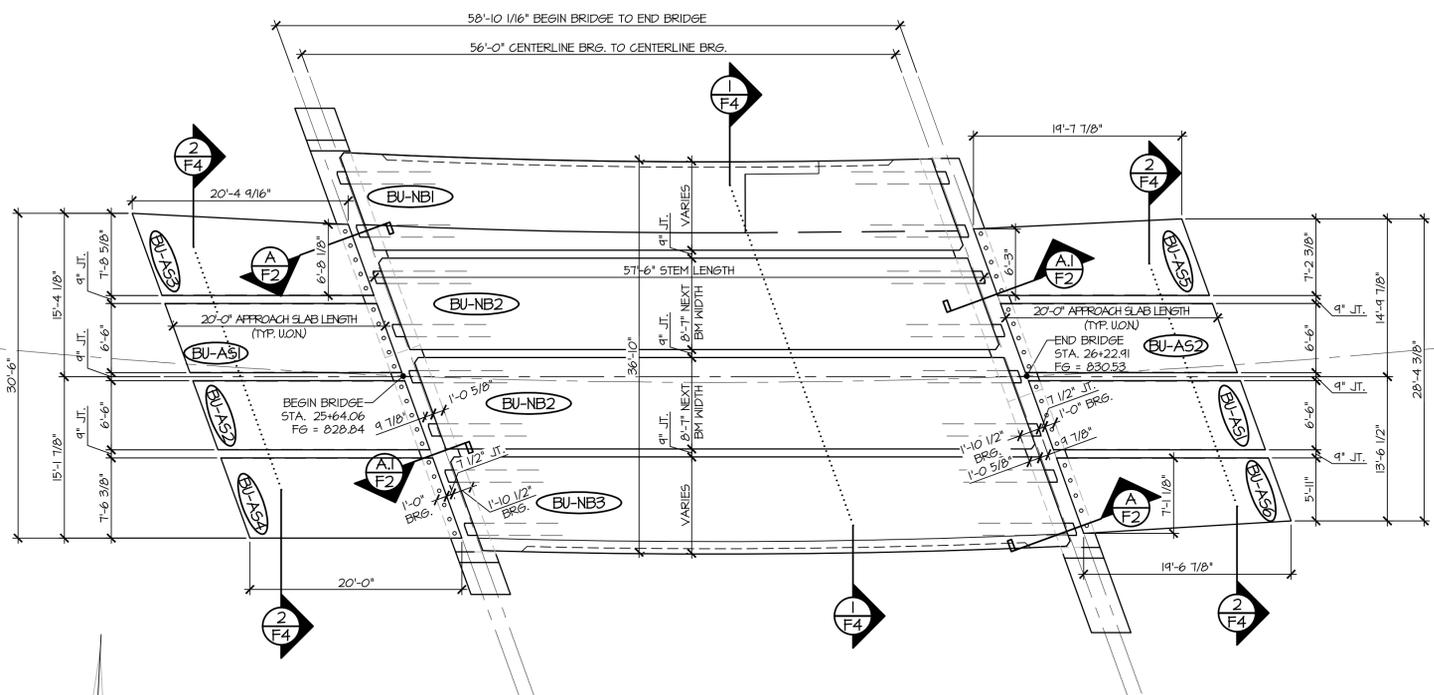
01-22-15 REVISED

APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	T. BUCK CONSTRUCTION, INC CONTRACTOR AUBURN, MAINE
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR 26, 2015 SCALE: NOTED
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRP 0269(13)	CHKD: -- DFTM: JDK JOB NO: 23454-015
COVER SHEET	
DWG. NO: C1	



**1**  
**FI** PRECAST CONCRETE ABUTMENT  
1/8" = 1'-0"



**2**  
**FI** PRECAST APPROACH SLAB & NEXT BEAM LAYOUT  
1/8" = 1'-0"

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REJECTED     REVISE AND RESUBMIT     APPROVED AS NOTED

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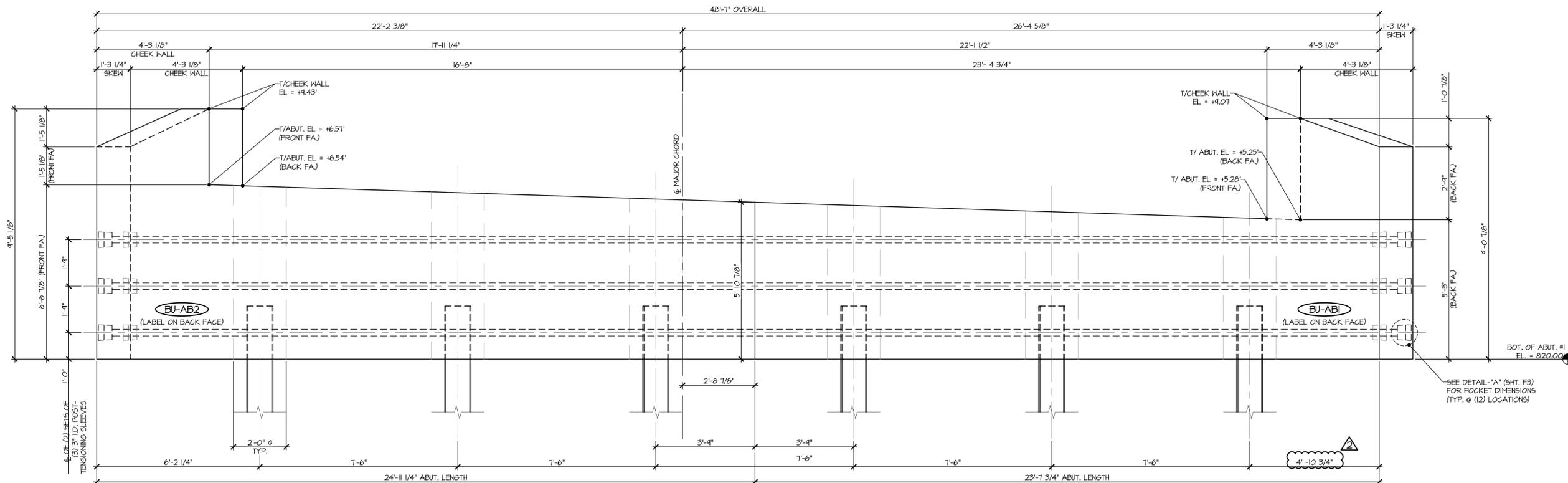
	C.J.D. Consulting Engineers 580 Commercial Street Manchester, NH 03101 603-688-8252	Job Number: 120121
	Reviewed by: <b>SRB</b>	Date: 04/10/2015

Vermont Agency of Transportation  
**RECEIVED**

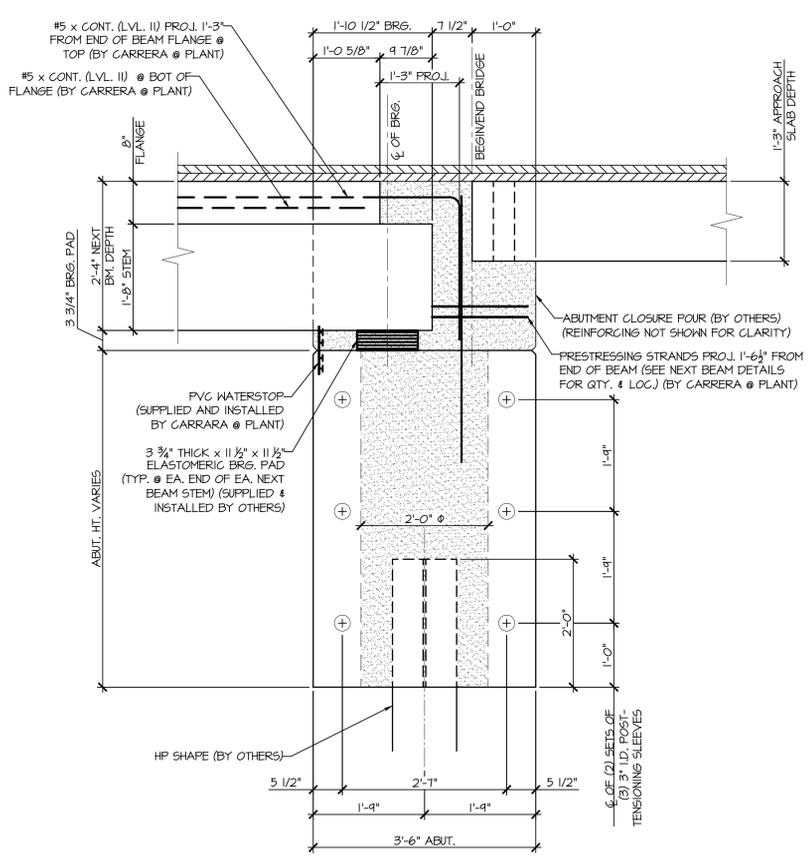
CK'D BY: \_\_\_\_\_ OK'D BY: \_\_\_\_\_  
RESUBMIT No: \_\_\_\_\_  
BY Rob Young  
DATE 04/13/2015

April 6, 2015  
Approved As Noted

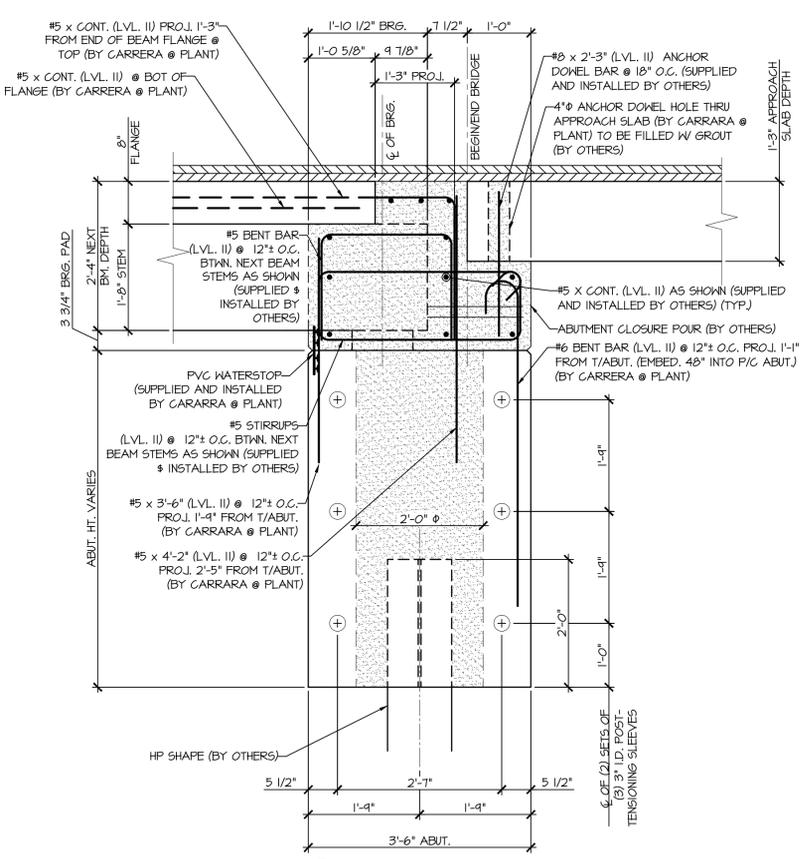
APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 264 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	<b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 26, 2015 SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: _____ DFTM: JJK JOB NO: 23454-015
	PRECAST ABUTMENT APPROACH SLAB & NEXT BEAM LAYOUT	DWG. NO: <b>FI</b>



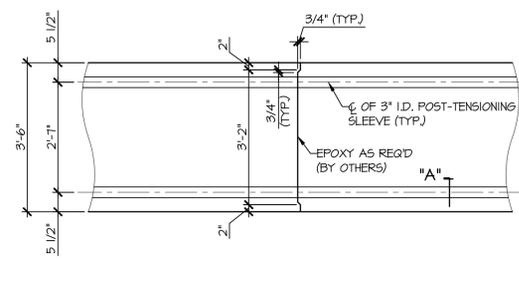
**1**  
**F2** ABUTMENT #1 ELEVATION  
1/2" = 1'-0"



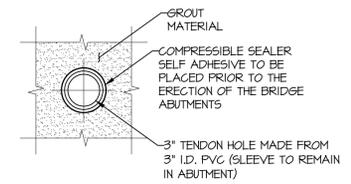
**A**  
**F2** BEARING SECTION  
3/4" = 1'-0"  
NEXT BEAM STEM BEARING



**A.1**  
**F2** BEARING SECTION  
3/4" = 1'-0"  
BETWEEN NEXT BEAM STEM BEARING



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



**SECTION - "A"**  
1/2" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
APR 6 2015  
RESUBMIT No. Approved As Noted  
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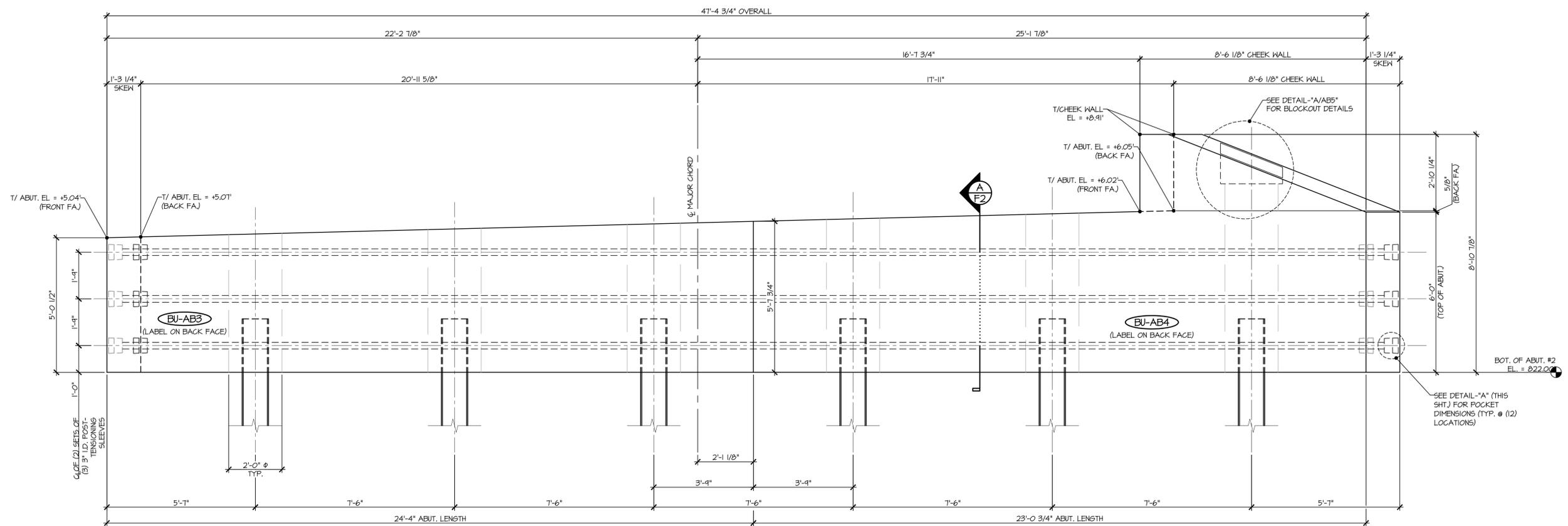
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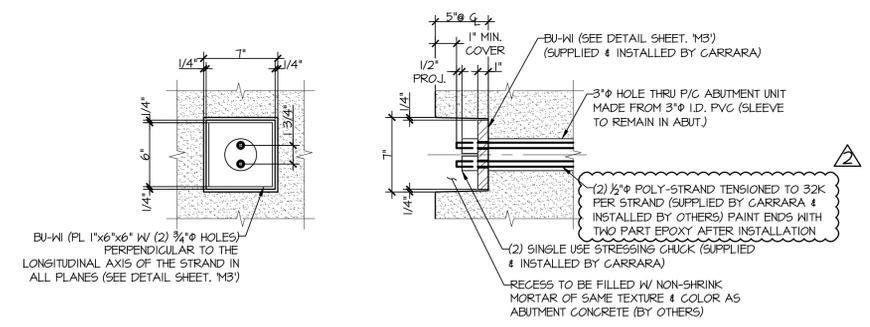
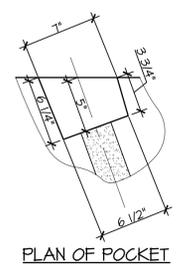
CLD Consulting Engineers  
240 Commercial Street  
Manchester, NH 03101  
603-666-6222

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

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	PRECAST ABUTMENT # 1 ELEVATION & SECTIONS	DWG. NO: F2



**1** ABUTMENT 2 ELEVATION  
**F3**  
 1/2" = 1'-0"



ABUTMENT ELEVATION  
 SECTION AT CENTERLINE  
**DETAIL - "A"**  
 1/2" = 1'-0"

RECEIVED  
 Vermont Agency of Transportation  
 C.K.D. BY: [Signature]  
 O.K.D. BY: [Signature]  
 RESUBMIT No. April 6, 2015  
 BY Rob Young Approved As Noted  
 DATE 04/13/2015

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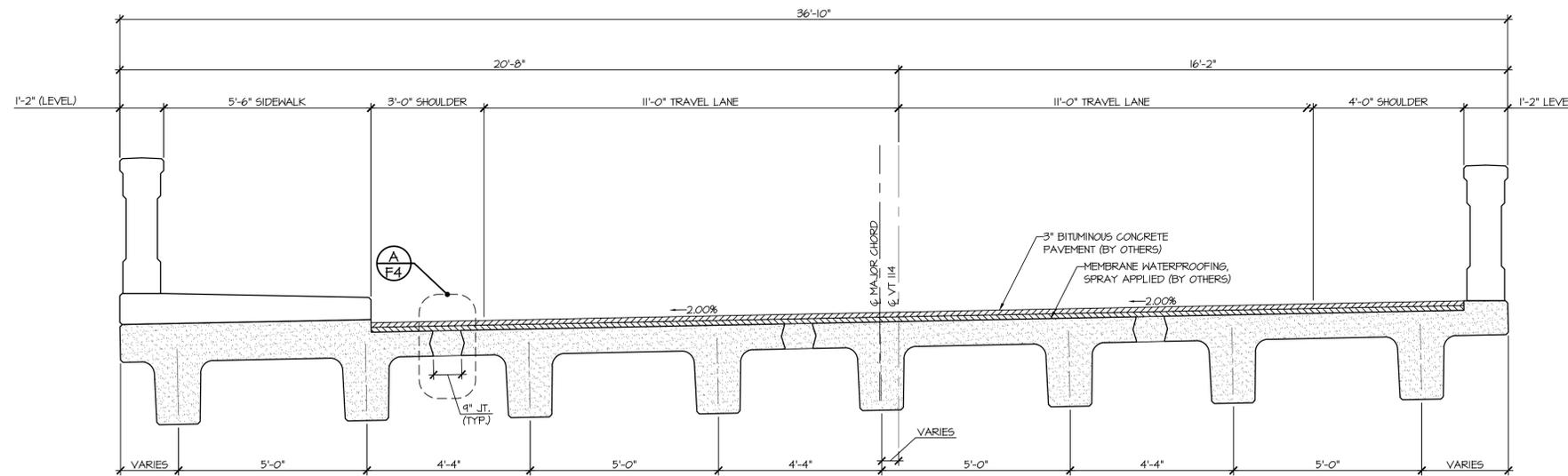
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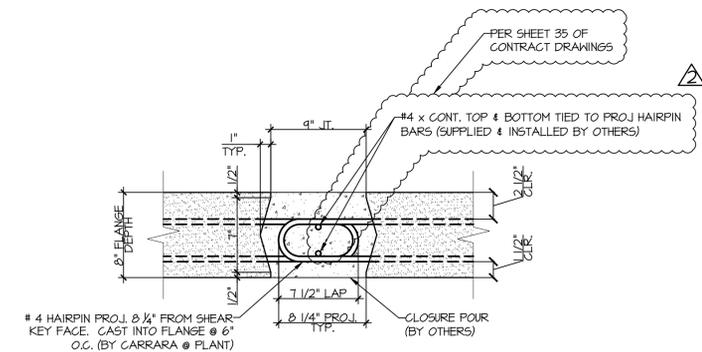
C.D. Consulting Engineers  
 540 Commercial Street  
 Montpelier, VT 05601  
 802-888-8222

Job Number: 120121  
 Reviewed by: SRB  
 Date: 04/10/2015

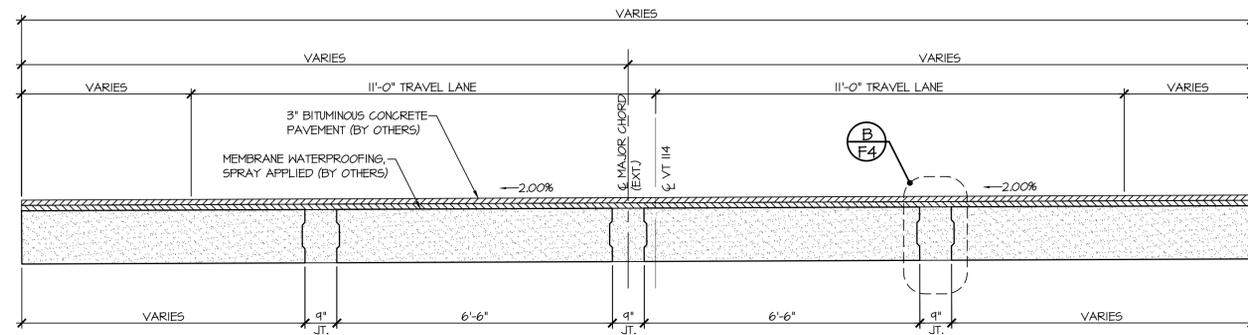
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	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: [Signature] DFTM: JDK JOB NO: 23454-015
	PRECAST ABUTMENT # 2 ELEVATION	DWG. NO: F3



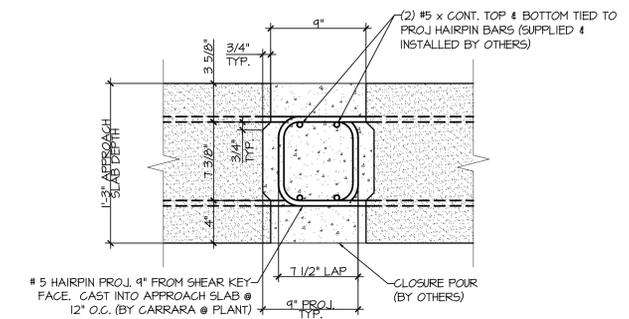
**1**  
F4 NEXT BEAM TRANSVERSE SECTION  
1/2" = 1'-0"



**A**  
F4 NEXT BEAM CLOSURE POUR  
1/2" = 1'-0"



**2**  
F4 APPROACH SLAB TRANSVERSE SECTION  
1/2" = 1'-0"



**B**  
F4 APPROACH SLAB CLOSURE POUR  
1/2" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY \_\_\_\_\_ OK'D BY \_\_\_\_\_  
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RESUBMIT No Approved AsNoted  
By Rob Young DATE 04/13/2015

**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.

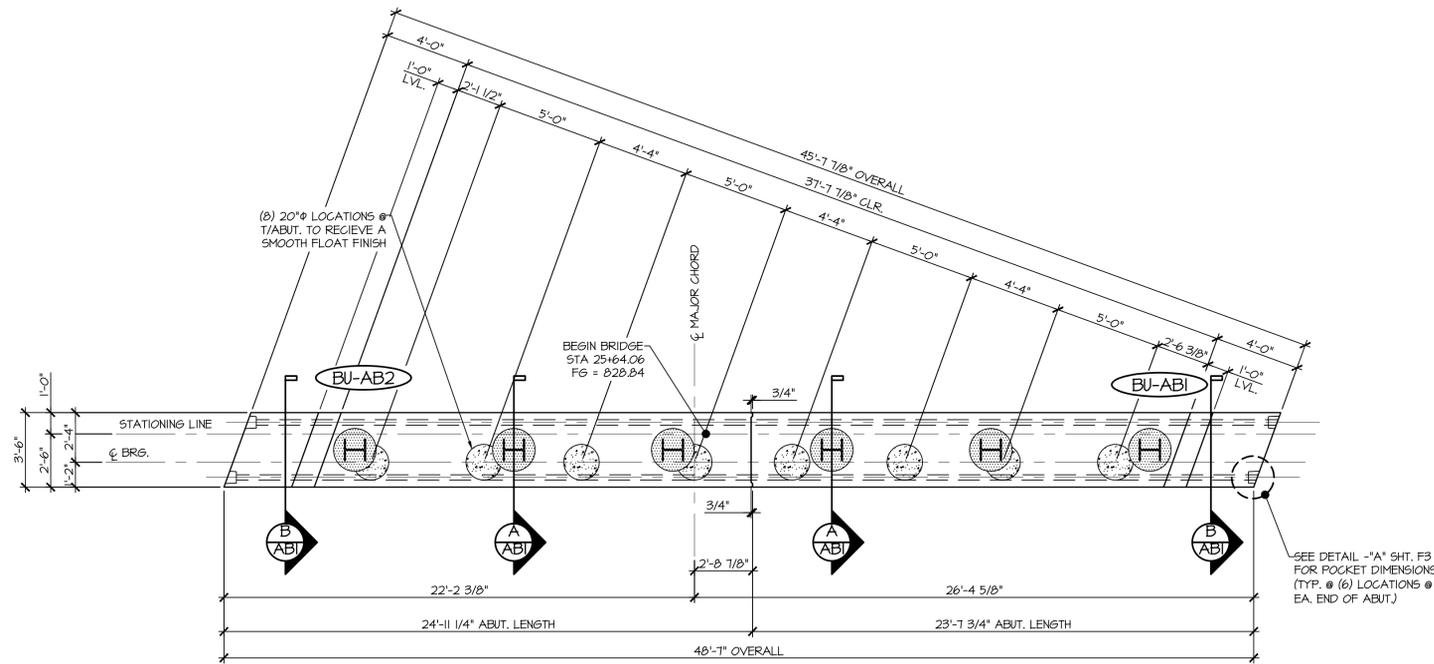
REJECTED  REVISE AND RESUBMIT  APPROVED AS NOTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DID 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 THEIR WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING THEIR WORK IN A SAFE AND SATISFACTORY MANNER.

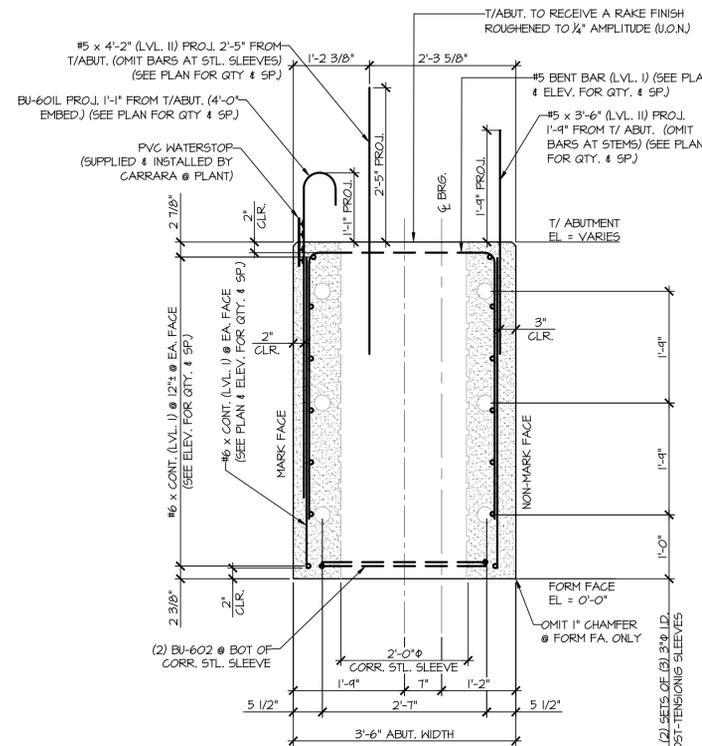
CLD Consulting Engineers  
540 Commercial Street  
Manchester, NH 03101  
603-666-8223

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

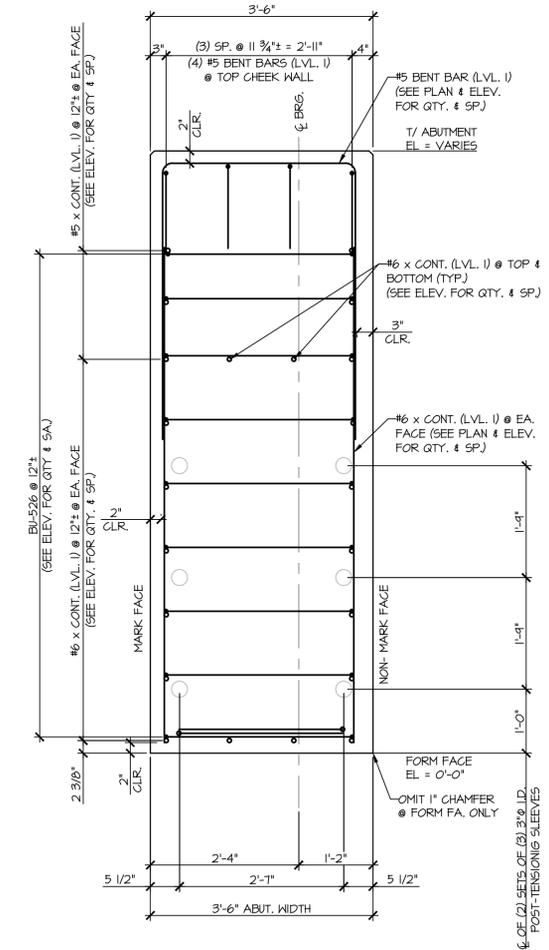
APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	<b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 26, 2015 SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: DFTM: JDC JOB NO: 23454-015
	TRANSVERSE SECTIONS & DETAILS	DWG. NO: F4



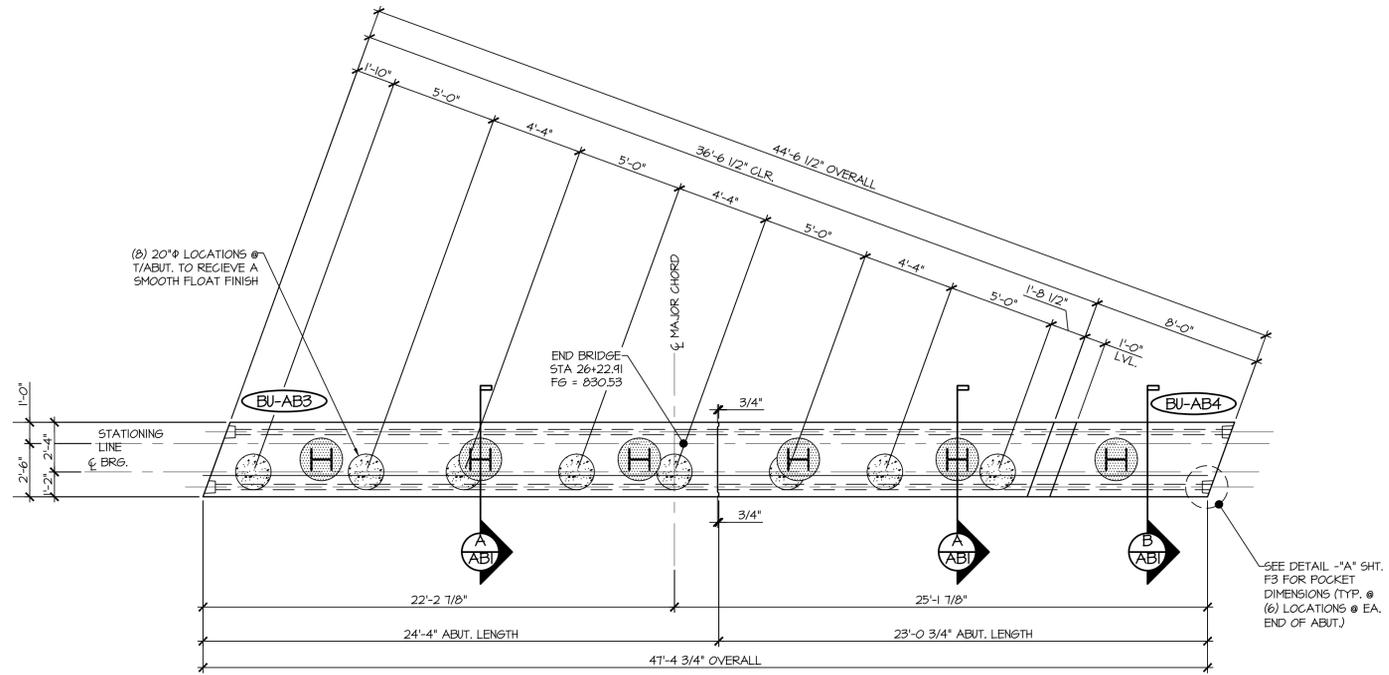
1 ABUTMENT ASSEMBLY PLAN  
ABI  
1/4" = 1'-0"



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



B ABUTMENT SECTION  
ABI  
3/4" = 1'-0"



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

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY: [Signature] OK'D BY: [Signature]  
April 6, 2015  
RESUBMIT No Approved As Noted  
BY Rob Young DATE 04/13/2015

**SHOP DRAWING REVIEW**

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REJECTED  REVISE AND RESUBMIT  APPROVED AS NOTED

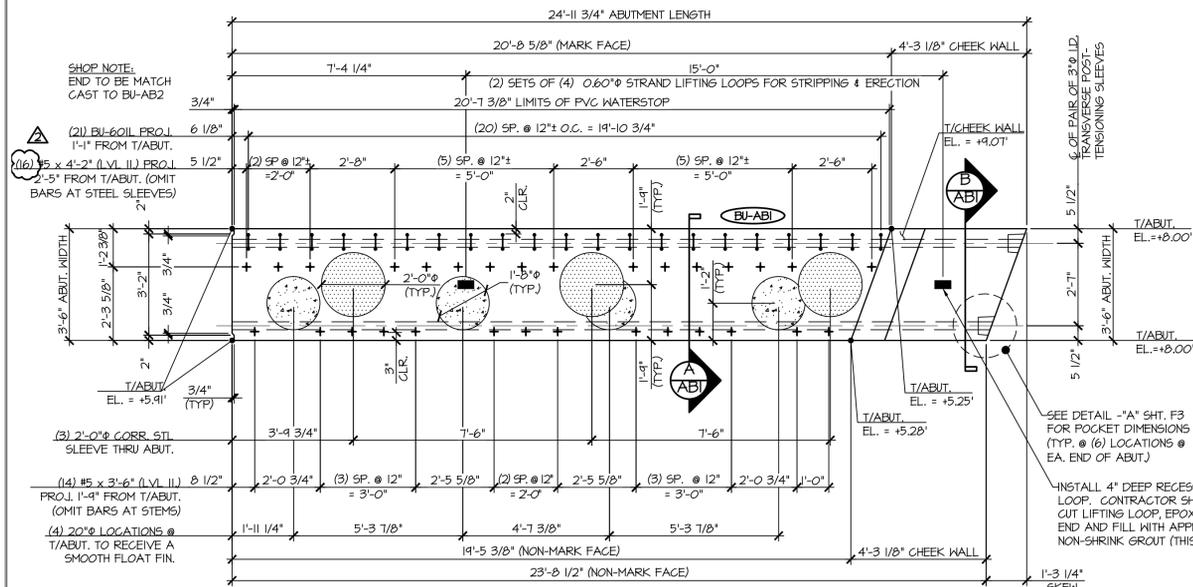
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CLD Consulting Engineers  
540 Commercial Street  
Manchester, NH 03101  
603-669-8223

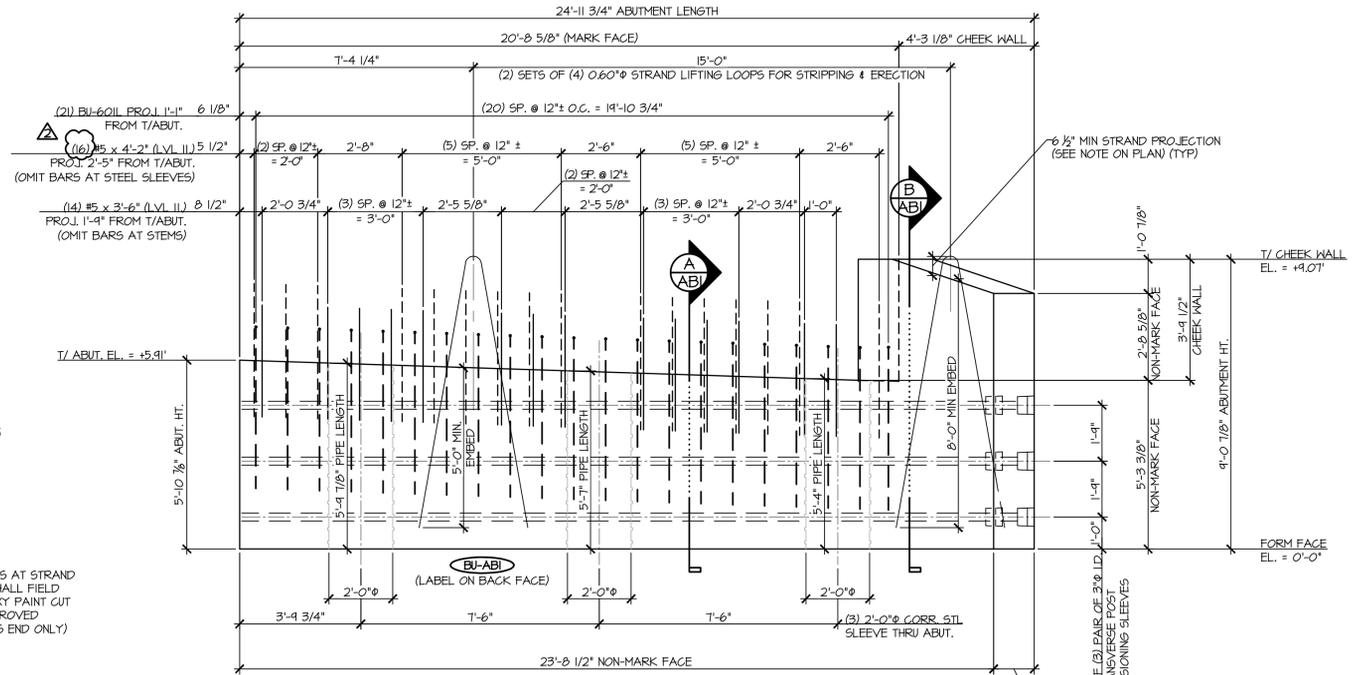
Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

APPROVAL STAMP:

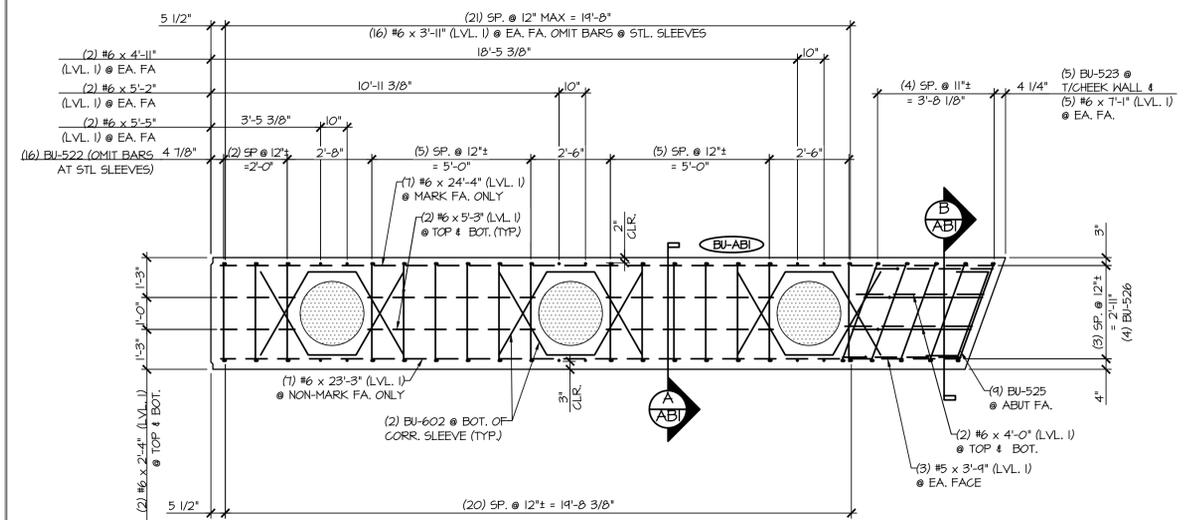
<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2464 CARR ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010		<b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 26, 2015	
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED	
PRECAST ABUTMENT PLANS & SECTION		CHKD: [Signature]	DFTM: JDK
		JOB NO: 23454-015	
		DWG. NO: ABI	



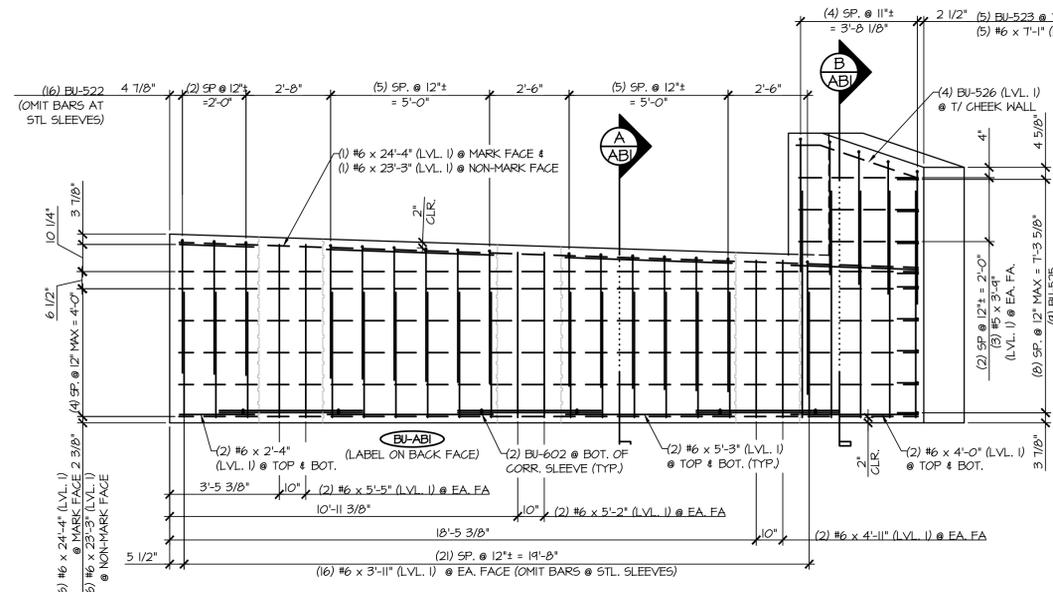
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
 3/8\"/>



2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION  
 3/8\"/>



3 ABUTMENT REINFORCING PLAN VIEW IN FORM  
 3/8\"/>



4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION  
 3/8\"/>

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	16
2	BU-523	#5 BENT BAR (LEVEL I)	5
3	BU-525	#5 BENT BAR (LEVEL I)	9
4	BU-526	#5 BENT BAR (LEVEL I)	4
5		#5 x 3'-6\" (LEVEL II, DUAL COATED)	14
6		#5 x 4'-2\" (LEVEL II, DUAL COATED)	16
7		#5 x 3'-4\" (LEVEL I)	6
8	BU-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	21
9	BU-602	#6 BENT BAR (LEVEL I)	6
10		#6 x 2'-4\" (LEVEL I)	4
11		#6 x 3'-11\" (LEVEL I)	32
12		#6 x 4'-0\" (LEVEL I)	4
13		#6 x 4'-11\" (LEVEL I)	4
14		#6 x 5'-2\" (LEVEL I)	4
15		#6 x 5'-3\" (LEVEL I)	8
16		#6 x 5'-5\" (LEVEL I)	4
17		#6 x 7'-1\" (LEVEL I)	10
18		#6 x 23'-3\" (LEVEL I)	7
19		#6 x 4'-11\" (LEVEL I)	7
20		2'-0\" x 5'-4\" CORR. STL. PIPE (GALV.)	1
21		2'-0\" x 5'-7\" CORR. STL. PIPE (GALV.)	1
22		2'-0\" x 5'-9 1/8\" CORR. STL. PIPE (GALV.)	1
23		SET OF (4) 0.60\" x 270 KSI STRAND LIFTING LOOPS	2

**SHOP DRAWING REVIEW**

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 CLD Consulting Engineers  
 640 Commercial Street  
 Manchester, NH 03101  
 603-968-6222

Job Number: 120121  
 Reviewed by: SRB  
 Date: 04/10/2015

Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY \_\_\_\_\_ OK'D BY \_\_\_\_\_  
 April 6, 2015  
 RESUBMIT No Approved AsNoted  
 BY Rob Young DATE 04/13/2015

APPROVAL STAMP:

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

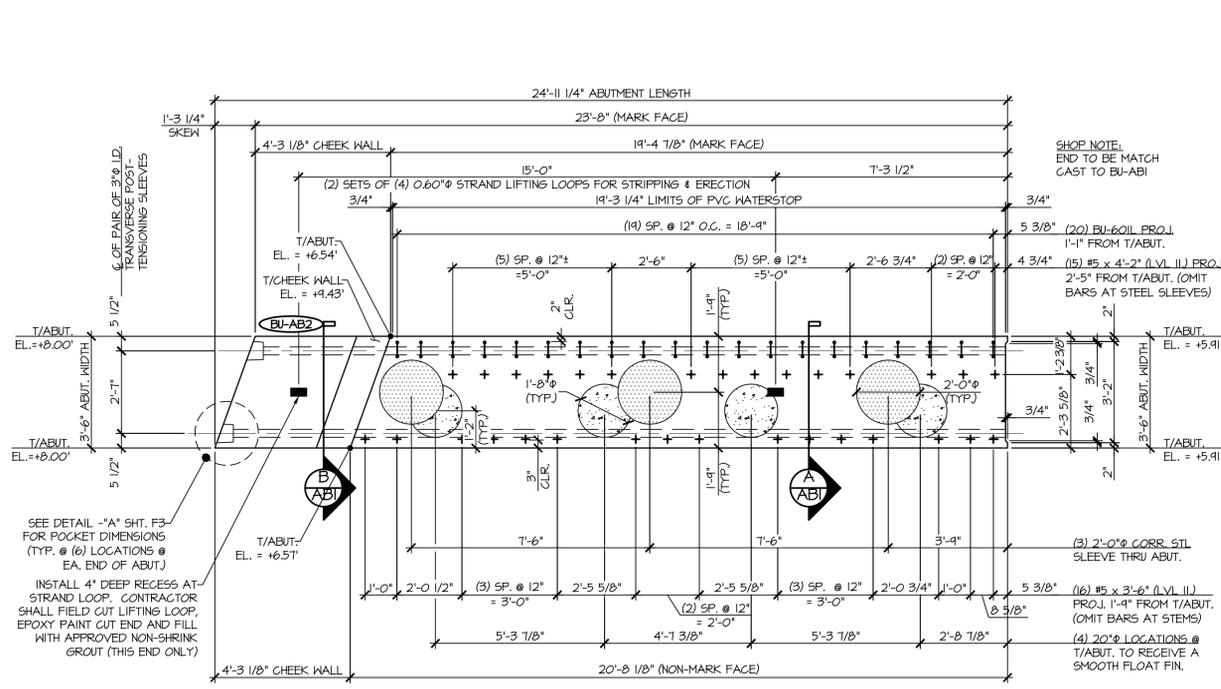
**T. BUCK CONSTRUCTION, INC.**  
 CONTRACTOR  
 AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
 COUNTY OF CALEDONIA

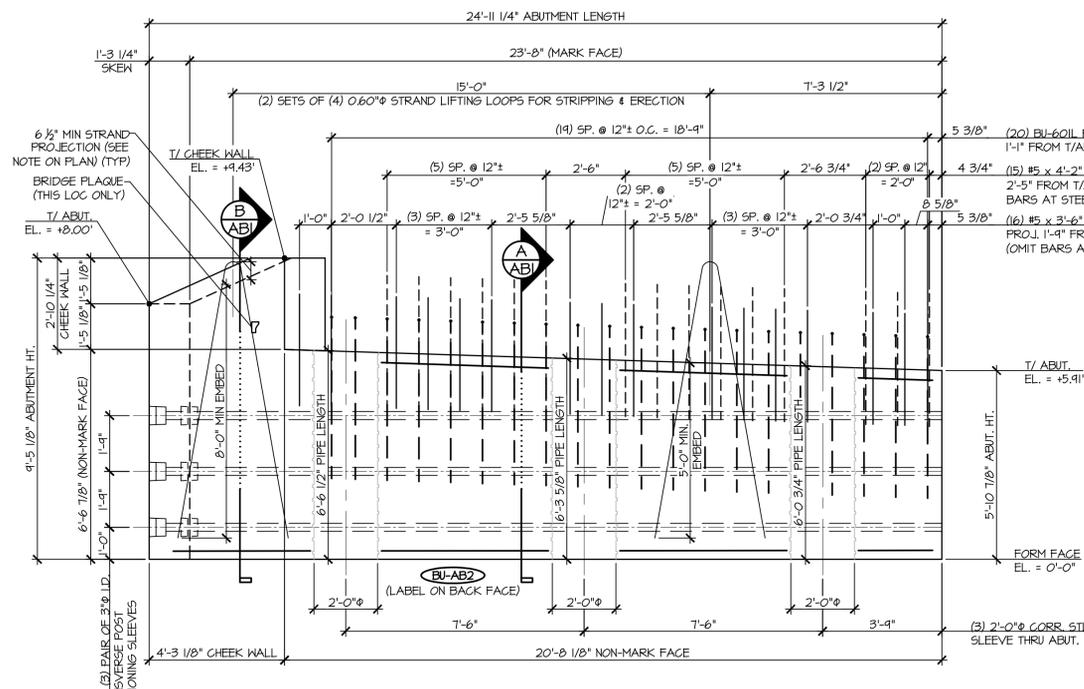
TOWN OF BURKE  
 VERMONT ROUTE 114  
 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 26, 2015  
 SCALE: NOTED  
 CHKD: DFTM: JDK  
 JOB NO: 23454-015  
 DWG. NO: AB2

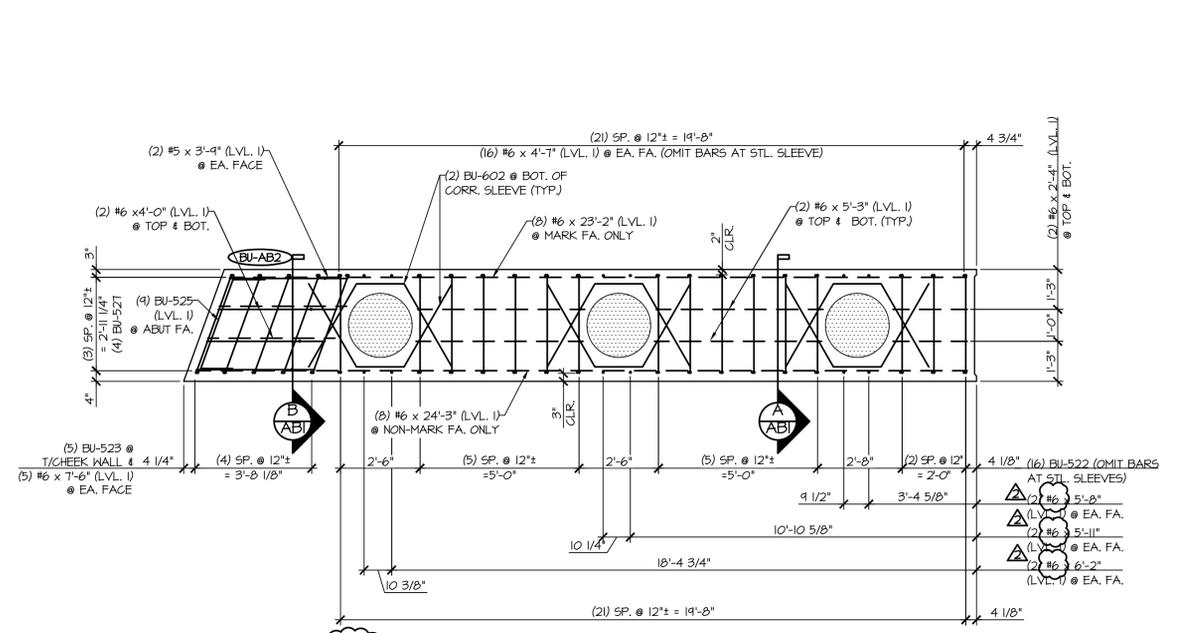
PRECAST ABUTMENT #1 DETAILS



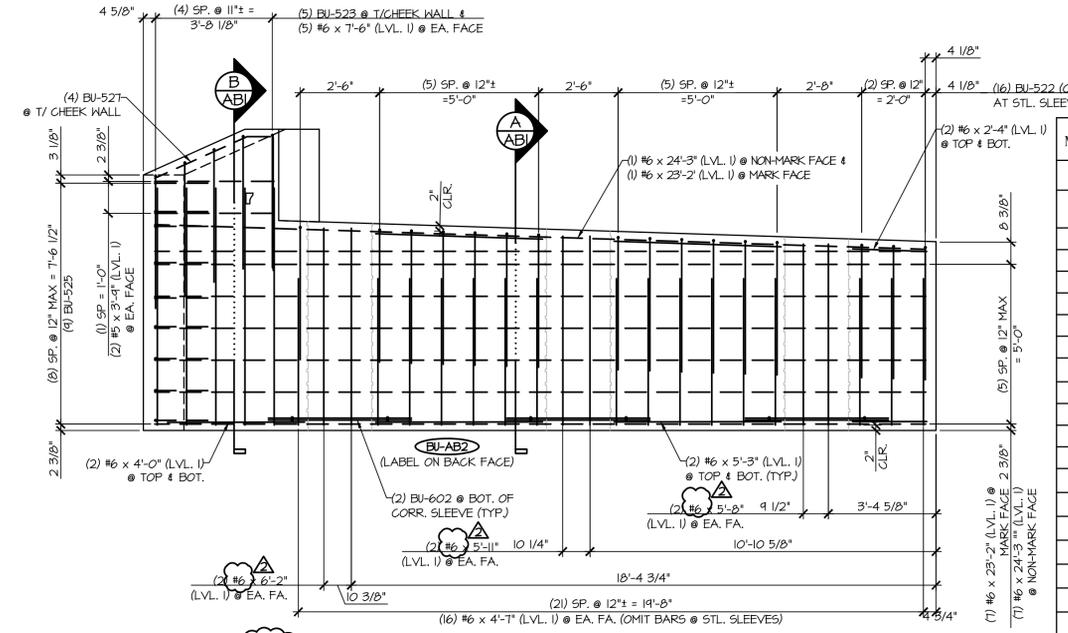
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION  
3/8" = 1'-0"



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



4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION  
3/8" = 1'-0"

MARK: BU-AB2	QTY: 1	WT: 38.17T	VOL: 18.85 CY
MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	16
2	BU-523	#5 BENT BAR (LEVEL I)	5
3	BU-525	#5 BENT BAR (LEVEL I)	4
4	BU-527	#5 BENT BAR (LEVEL I)	4
5		#5 x 3'-6" (LEVEL II, DUAL COATED)	16
6		#5 x 4'-2" (LEVEL II, DUAL COATED)	15
7		#5 x 3'-4" (LEVEL I)	4
8	BU-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	20
9	BU-602	#6 BENT BAR (LEVEL I)	6
10		#6 x 2'-4" (LEVEL I)	4
11		#6 x 4'-0" (LEVEL I)	4
12		#6 x 4'-7" (LEVEL I)	32
13		#6 x 5'-3" (LEVEL I)	8
14		#6 x 5'-8" (LEVEL I)	4
15		#6 x 5'-11" (LEVEL I)	4
16		#6 x 6'-2" (LEVEL I)	4
17		#6 x 7'-6" (LEVEL I)	10
18		#6 x 23'-2" (LEVEL I)	8
19		#6 x 24'-3" (LEVEL I)	8
20		2'-0" x 6'-0" 3/4" CORR. STL. PIPE (GALV.)	1
21		2'-0" x 6'-3 3/8" CORR. STL. PIPE (GALV.)	1
22		2'-0" x 6'-6 1/2" CORR. STL. PIPE (GALV.)	1
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2

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**RECEIVED**  
Vermont Agency of Transportation

CK'D BY:   
RESUBMIT No:   
DATE:   
APPROVED AS NOTED DATE:   
BY:   
DATE:   
APPROVED AS NOTED DATE:   
BY:   
DATE:

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

APPROVAL STAMP:

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

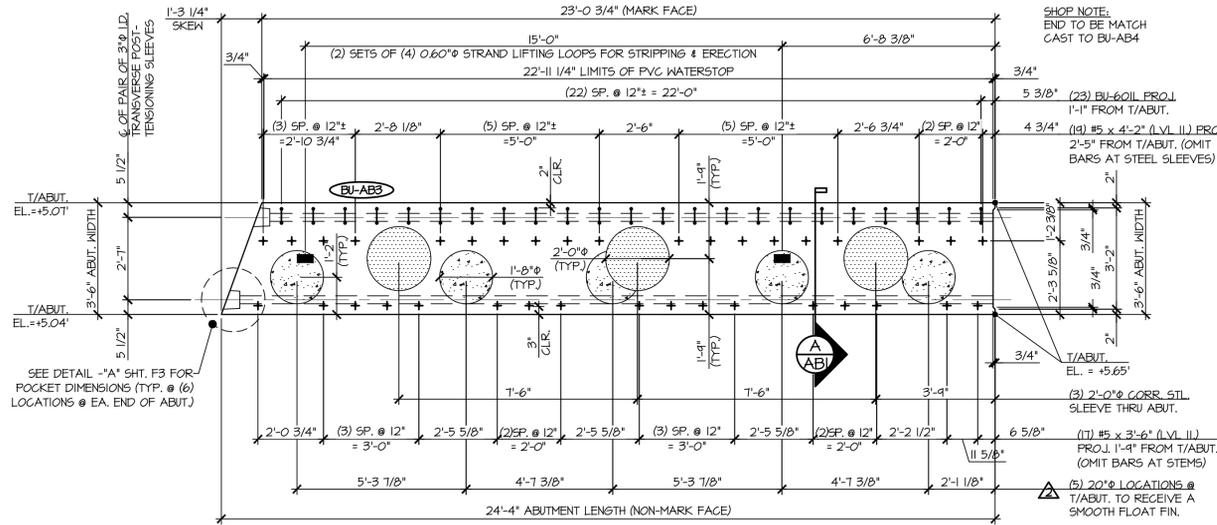
**T. BUCK CONSTRUCTION, INC.**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

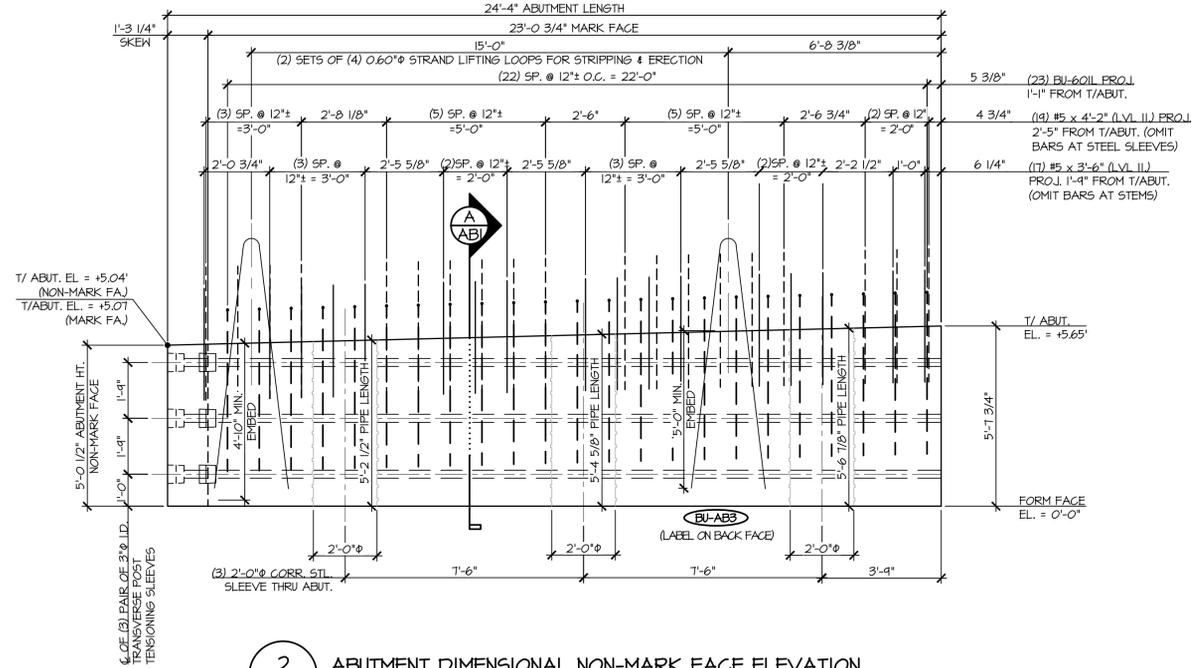
TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRP 0269(13)

DATE: MAR. 26, 2015  
SCALE: NOTED  
CHKD: DFTM: JDK  
JOB NO: 23454-015  
DWG. NO: AB3

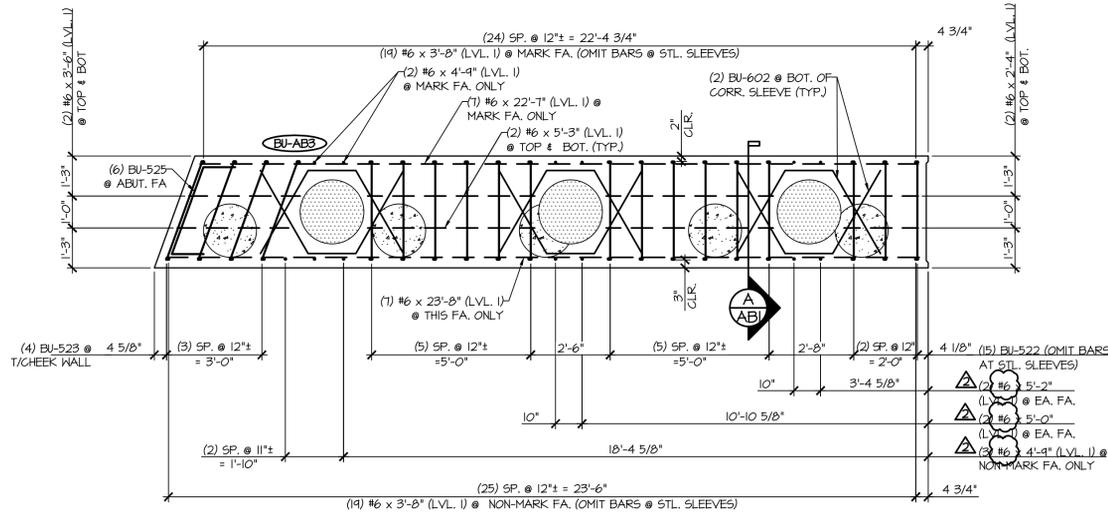
PRECAST ABUTMENT #2 DETAILS



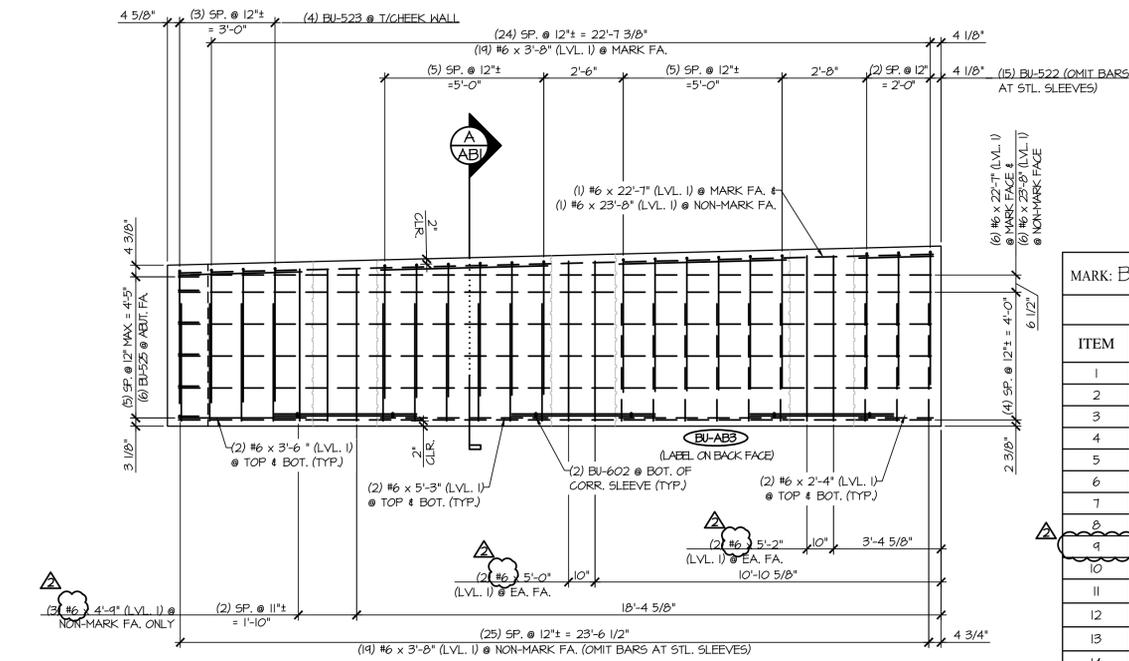
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM  
AB4 3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION  
AB4 3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM  
AB4 3/8" = 1'-0"



4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION  
AB4 3/8" = 1'-0"

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	15
2	BU-523	#5 BENT BAR (LEVEL I)	4
3	BU-525	#5 BENT BAR (LEVEL I)	6
4		#5 x 3'-6" (LEVEL II, DUAL COATED)	17
5		#5 x 4'-2" (LEVEL II, DUAL COATED)	19
6	BU-60L	#6 BENT BAR (LEVEL II, DUAL COATED)	23
7	BU-602	#6 BENT BAR (LEVEL II)	6
8		#6 x 2'-4" (LEVEL I)	4
9		#6 x 3'-6" (LEVEL I)	4
10		#6 x 3'-8" (LEVEL I)	38
11		#6 x 4'-4" (LEVEL I)	5
12		#6 x 5'-0" (LEVEL I)	4
13		#6 x 5'-2" (LEVEL I)	4
14		#6 x 5'-3" (LEVEL I)	8
15		#6 x 22'-7" (LEVEL I)	7
16		#6 x 23'-8" (LEVEL I)	7
17		2'-0" x 5'-2 1/2" CORR. STL. PIPE (GALV.)	1
18		2'-0" x 5'-4 3/8" CORR. STL. PIPE (GALV.)	1
19		2'-0" x 5'-6 7/8" CORR. STL. PIPE (GALV.)	1
20		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2

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CLD Consulting Engineers  
540 Commercial Street  
Manchester, NH 03101  
603-499-6222

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

Vermont Agency of Transportation  
**RECEIVED**  
C.R.D. BY: OK'D BY:  
RESUBMIT NO: April 6, 2015  
BY: Rob Young Approved As Noted  
DATE: 04/13/2015

APPROVAL STAMP:

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

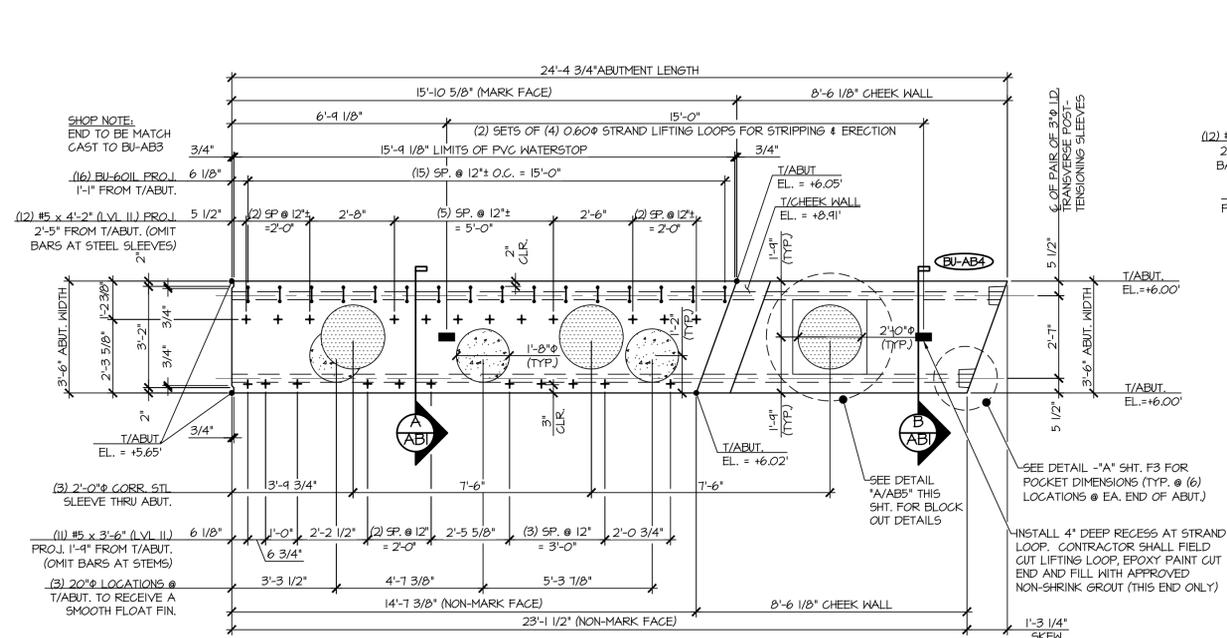
**T. BUCK CONSTRUCTION, INC.**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

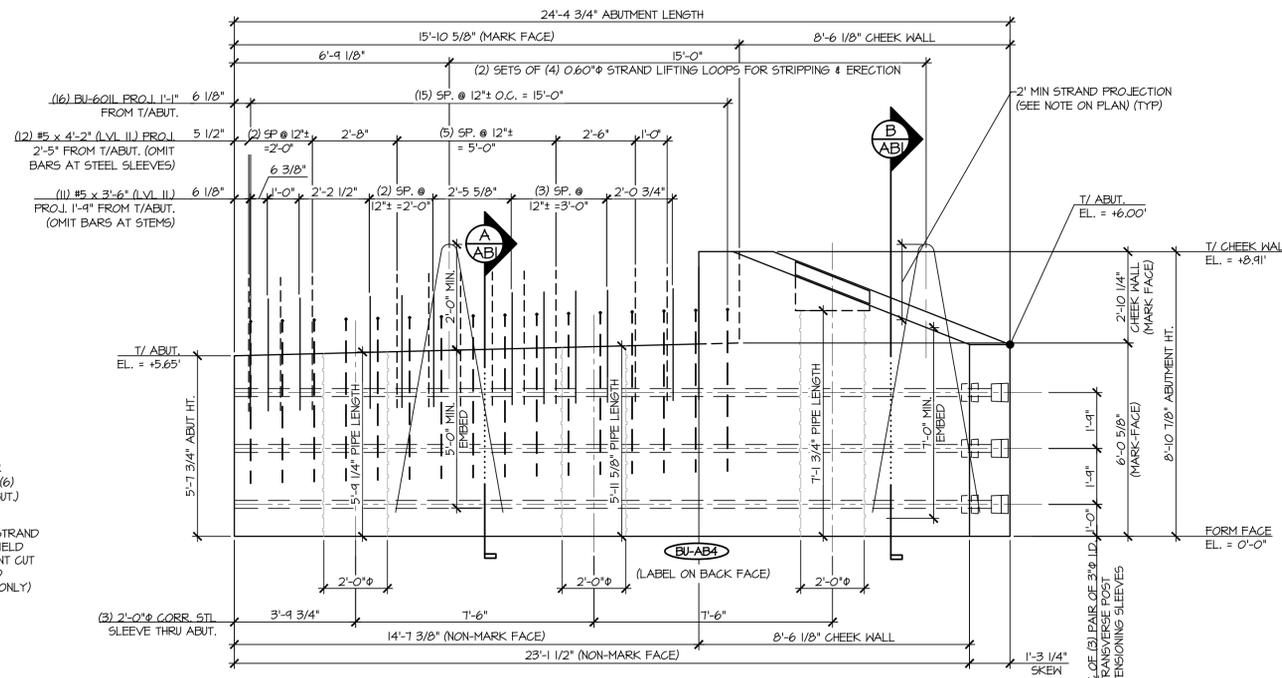
TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 26, 2015  
SCALE: NOTED  
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JOB NO: 23454-015  
DWG. NO: AB4

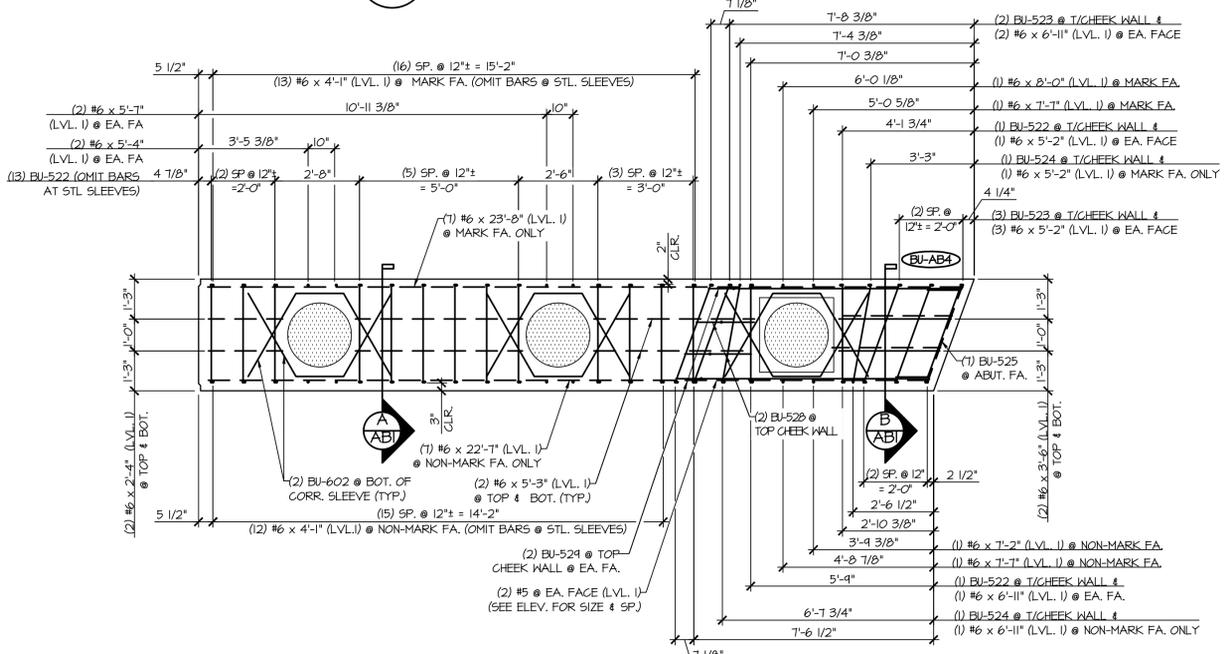
PRECAST ABUTMENT #3 DETAILS



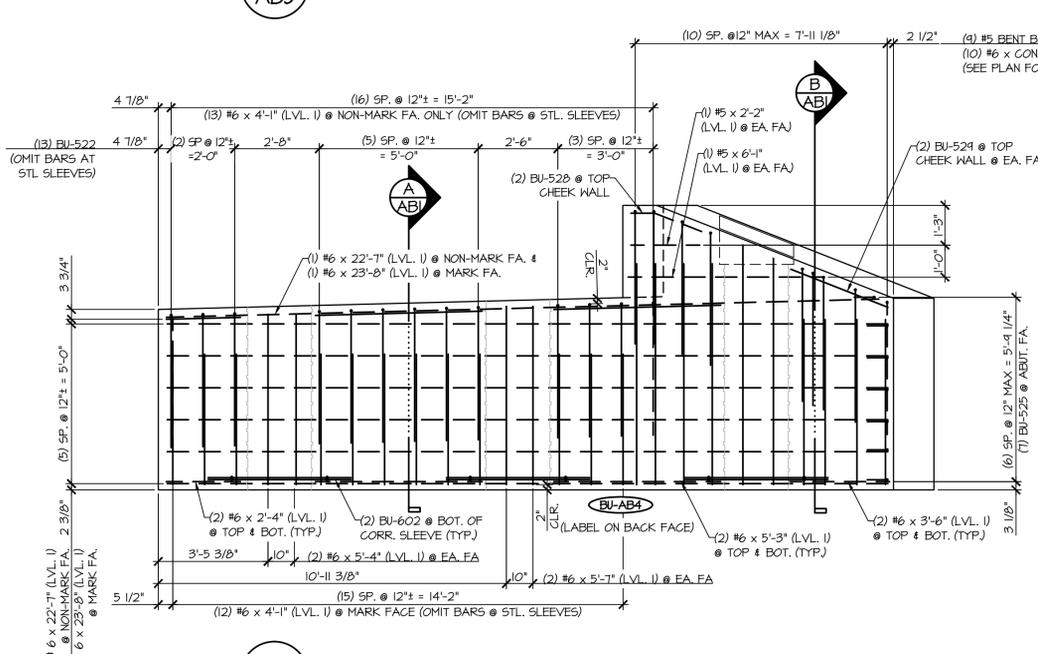
**1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM**  
 $\frac{3}{8}'' = 1'-0''$



**2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION**  
 $\frac{3}{8}'' = 1'-0''$

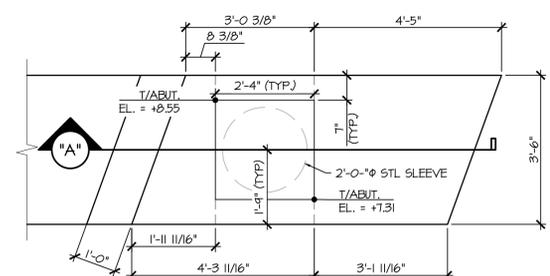


**3 ABUTMENT REINFORCING PLAN VIEW IN FORM**  
 $\frac{3}{8}'' = 1'-0''$

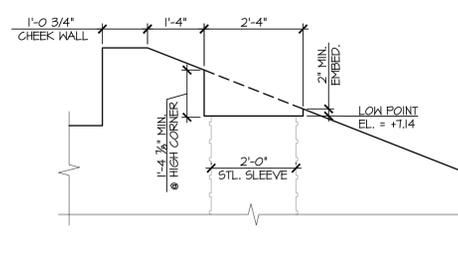


**4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION**  
 $\frac{3}{8}'' = 1'-0''$

MARK: BU-AB4	QTY: 1	WT: 35,82T	VOL: 17.69 CY
MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	15
2	BU-523	#5 BENT BAR (LEVEL I)	5
3	BU-524	#5 BENT BAR (LEVEL I)	2
4	BU-525	#5 BENT BAR (LEVEL I)	7
5	BU-526	#5 BENT BAR (LEVEL I)	2
6	BU-524	#5 BENT BAR (LEVEL I)	2
7		#5 x 2'-2" (LEVEL I)	2
8		#5 x 3'-6" (LEVEL II, DUAL COATED)	11
9		#5 x 4'-2" (LEVEL II, DUAL COATED)	12
10		#5 x 2'-4" (LEVEL I)	2
11	BU-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	16
12	BU-602	#6 BENT BAR (LEVEL I)	6
13		#6 x 2'-4" (LEVEL I)	4
14		#6 x 3'-6" (LEVEL I)	4
15		#6 x 4'-1" (LEVEL I)	25
16		#6 x 5'-2" (LEVEL I)	4
17		#6 x 5'-3" (LEVEL I)	8
18		#6 x 5'-4" (LEVEL I)	4
19		#6 x 5'-7" (LEVEL I)	4
20		#6 x 6'-1" (LEVEL I)	7
21		#6 x 7'-2" (LEVEL I)	1
22		#6 x 7'-1" (LEVEL I)	2
23		#6 x 8'-0" (LEVEL I)	1
24		#6 x 22'-7" (LEVEL I)	7
25		#6 x 23'-8" (LEVEL I)	7
26		2'-0" x 5'-4 1/4" CORR. STL. PIPE (GALV)	1
27		2'-0" x 5'-11 3/8" CORR. STL. PIPE (GALV)	1
28		2'-0" x 7'-1 3/4" CORR. STL. PIPE (GALV)	1
29		SET OF 4 0.60" x 270 KSI STRAND LIFTING LOOPS	2



**A BLOCK OUT DETAILS**  
 $\frac{1}{2}'' = 1'-0''$



**SECTION 'A'**

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**CLD Consulting Engineers**  
 540 Commercial Street  
 Manchester, NH 03101  
 603-888-8225

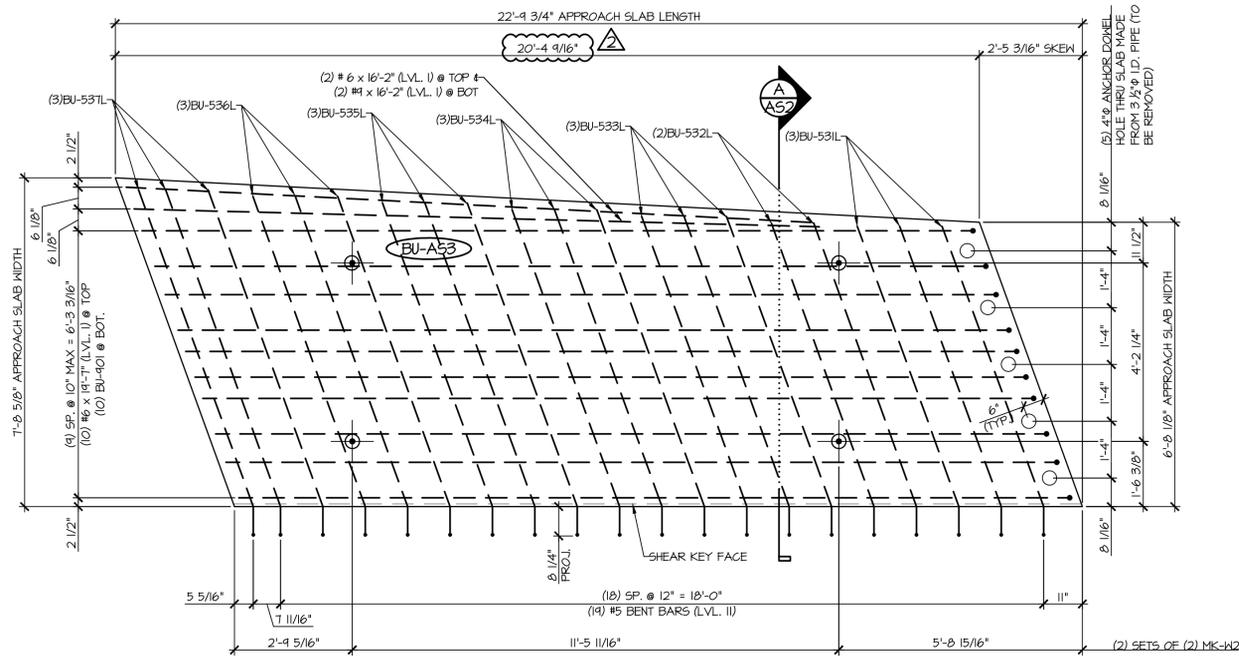
Job Number: **120121**  
 Reviewed by: **SRB**  
 Date: **04/10/2015**

APPROVAL STAMP:

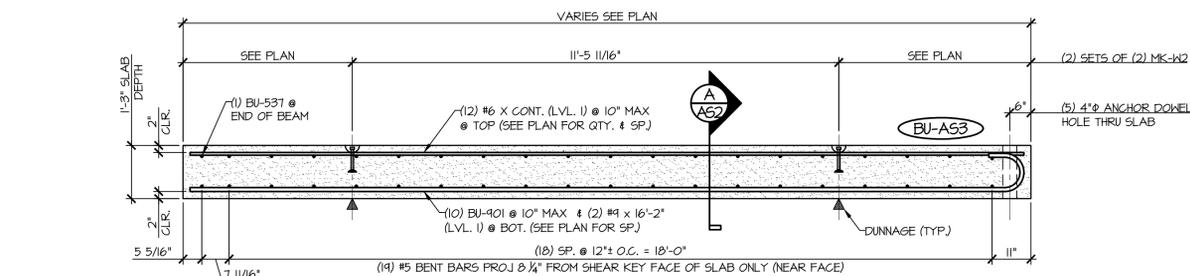
<p><b>J.P. CARRARA &amp; SONS INC.</b>          Precast &amp; Prestress Manufacturer          2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</p>	<p><b>T. BUCK CONSTRUCTION, INC.</b>          CONTRACTOR          AUBURN, MAINE</p>
<p>STATE OF VERMONT AGENCY OF TRANSPORTATION          COUNTY OF CALEDONIA</p>	<p>DATE: MAR. 26, 2015          SCALE: NOTED</p>
<p>TOWN OF BURKE          VERMONT ROUTE 114          BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)</p>	<p>CHKD: DFTM: JDK          JOB NO: 23454-015</p>
<p>PRECAST ABUTMENT #4 DETAILS</p>	<p>DWG. NO: AB5</p>

Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY: OK'D BY:  
 April 6, 2015  
 RESUBMIT No Approved AsNoted  
 By Rob Young DATE 04/13/2015

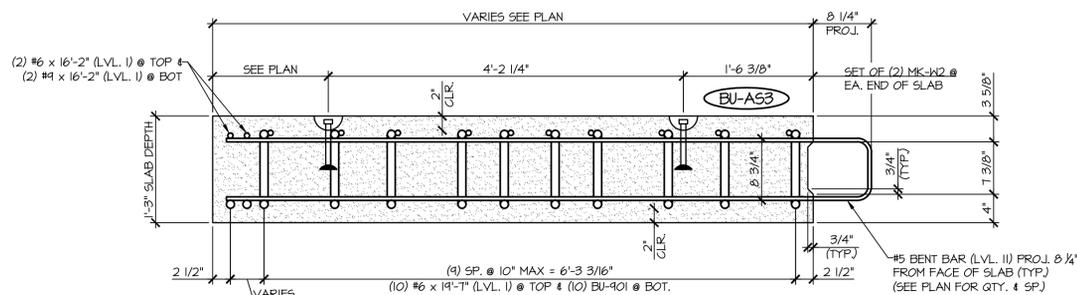




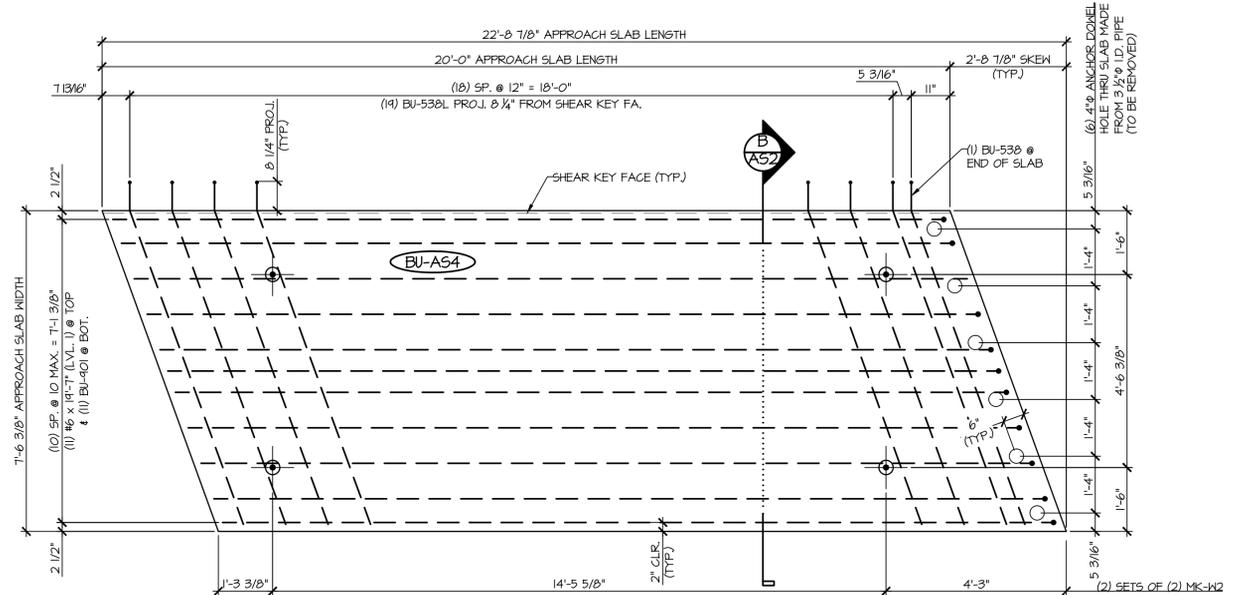
1 PLAN VIEW IN FORM  
AS2 1/2\"/>



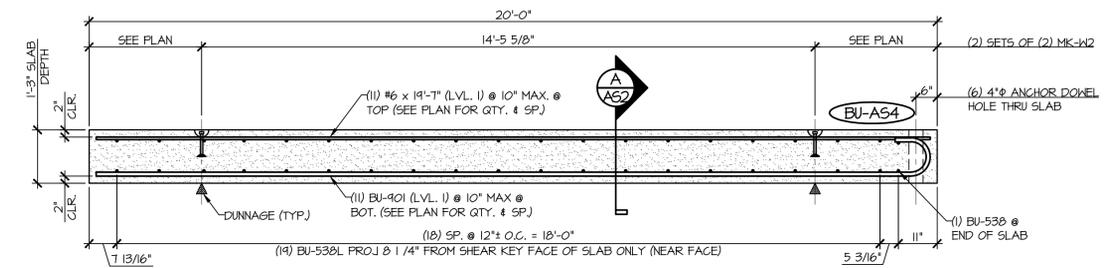
2 LONGITUDINAL SECTION  
AS2 1/2\"/>



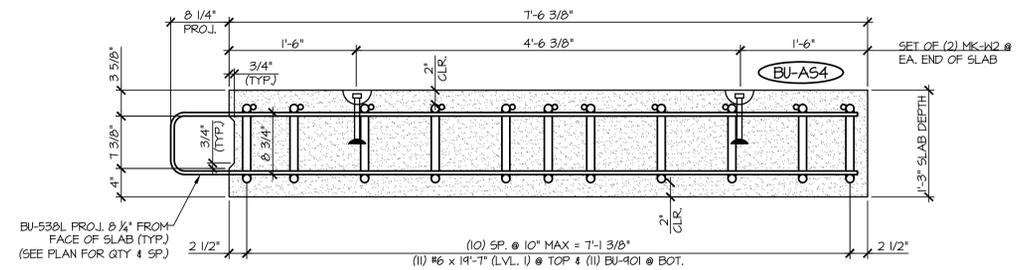
A APPROACH SLAB SECTION  
AS2 1\"/>



3 PLAN VIEW IN FORM  
AS2 1/2\"/>



4 LONGITUDINAL SECTION  
AS2 1/2\"/>



B APPROACH SLAB SECTION  
AS2 1\"/>

MARK: BU-A54	QTY.: 1	WT: 14.0TT	VOL: 6.95 CY
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MARK: BU-A53	QTY.: 1	WT: 13.45T	VOL: 6.64 CY
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ITEM	MARK	DESCRIPTION	QTY.
1	BU-531L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
2	BU-532L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
3	BU-533L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
4	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
5	BU-535L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
6	BU-536L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
7	BU-537L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
8		#6 x 19'-7\"/>	
9		#6 x 16'-2\"/>	
10	BU-901	#4 BENT BAR (LEVEL I)	10
11		#4 x 16'-2\"/>	
12	MK-W2	4T x 7 1/8\"/>	

MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-538	#5 BENT BAR (LEVEL II, DUAL COATED)	20
2		#6 x 19'-7\"/>	
3	BU-901	#4 BENT BAR (LEVEL I)	11
4	MK-W2	4T x 7 1/8\"/>	

**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  APPROVED AS NOTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DID 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 THEIR WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING THEIR WORK IN A SAFE AND SATISFACTORY MANNER.

CLD Consulting Engineers  
540 Commercial Street  
Manchester, NH 03101  
603-688-6223

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

VERMONT AGENCY OF TRANSPORTATION  
**RECEIVED**  
RESUBMIT No. \_\_\_\_\_  
BY Rob Young  
DATE 04/13/2015

OK'D BY \_\_\_\_\_  
APR 6, 2015  
OK'D BY \_\_\_\_\_  
Approved As Noted

APPROVAL STAMP:

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

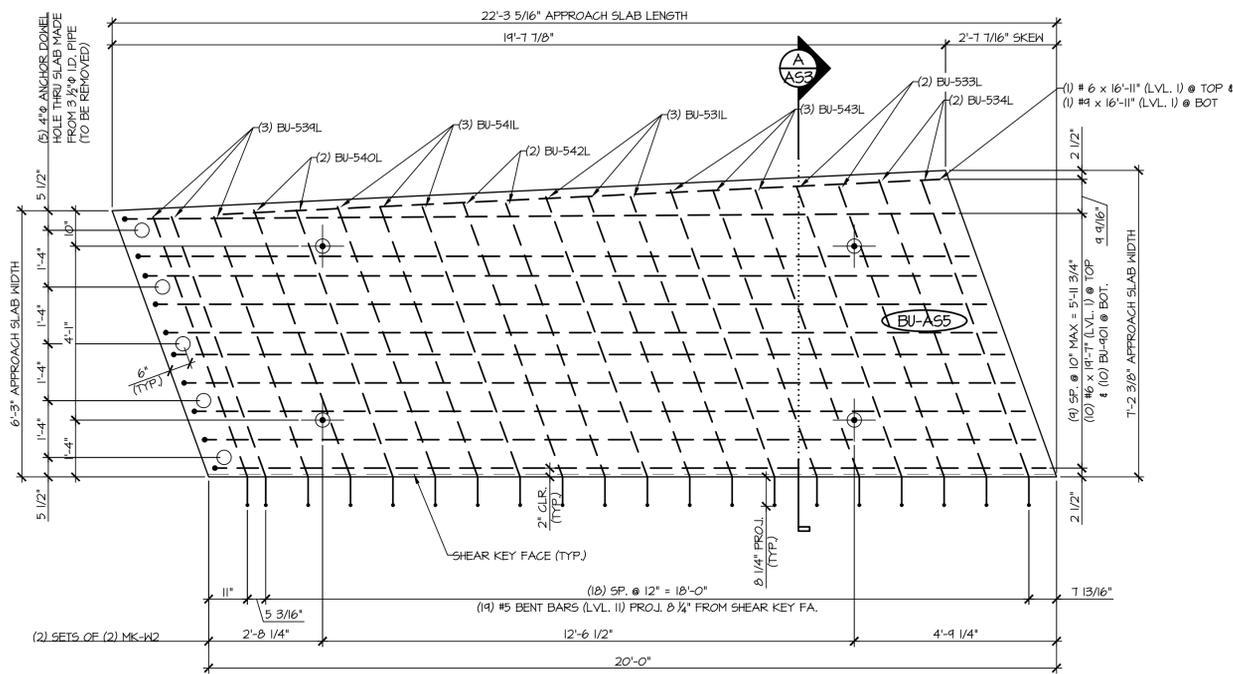
**T. BUCK CONSTRUCTION, INC.**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

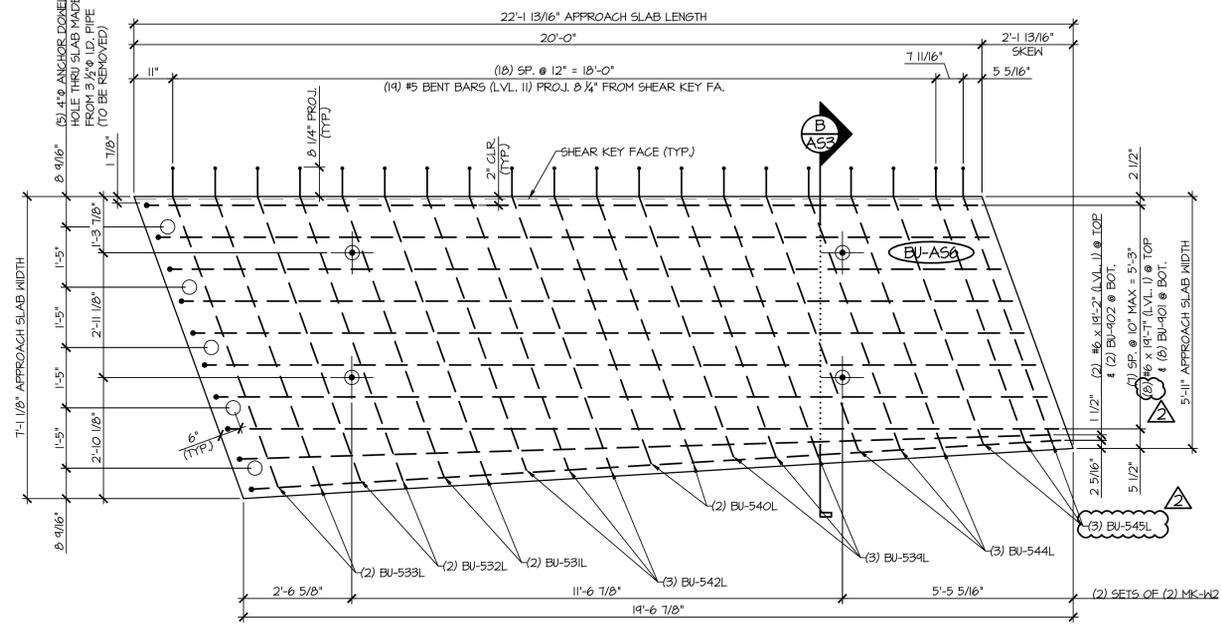
TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 26, 2015  
SCALE: NOTED  
CHKD: DFTM: JDK  
JOB NO: 23454-015  
DWG. NO: AS2

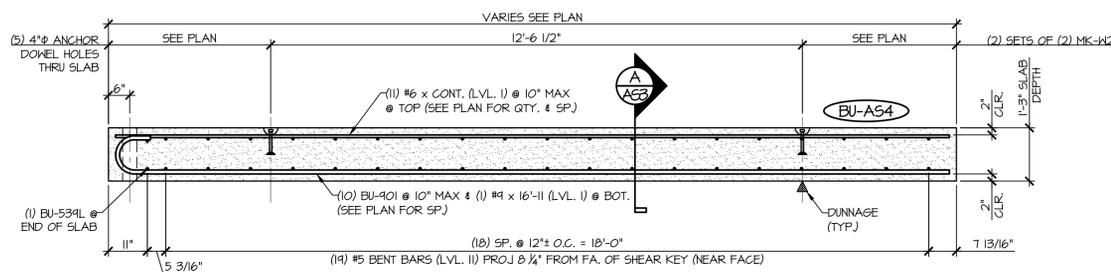
PRECAST APPROACH SLAB DETAILS



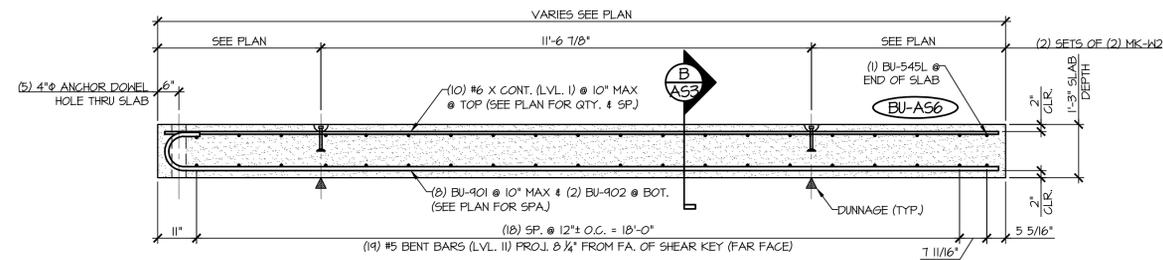
1 PLAN VIEW IN FORM  
A53 1/2" = 1'-0"



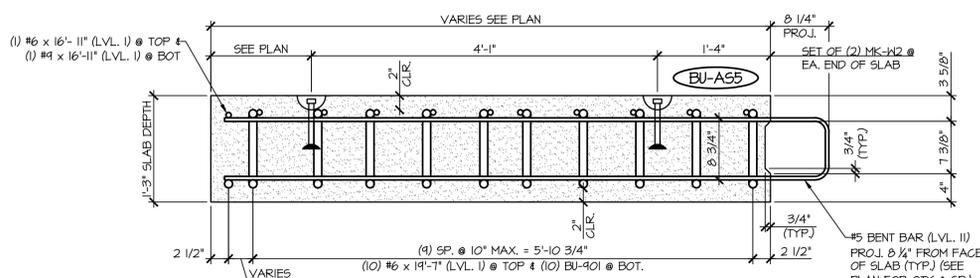
3 PLAN VIEW IN FORM  
A53 1/2" = 1'-0"



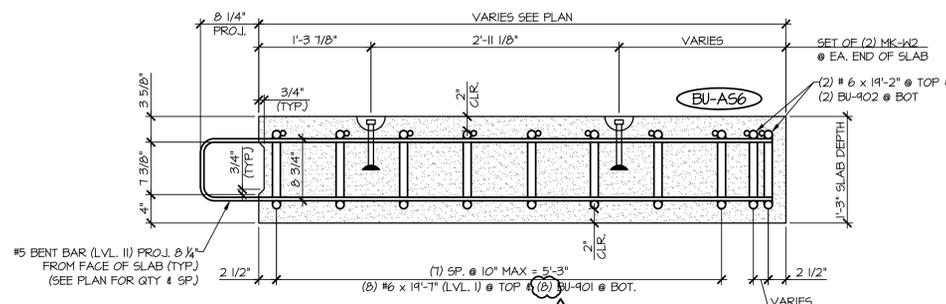
2 LONGITUDINAL SECTION  
A53 1/2" = 1'-0"



4 LONGITUDINAL SECTION  
A53 1/2" = 1'-0"



A APPROACH SLAB SECTION  
A53 1" = 1'-0"



B APPROACH SLAB SECTION  
A53 1" = 1'-0"

MARK: BU-A56	QTY.: 1	WT: 12.15T	VOL: 6.00 CY
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MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-531L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
2	BU-532L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
3	BU-533L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
4	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
5	BU-540L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
6	BU-542L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
7	BU-544L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
8	BU-545L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
9		#6 x 14'-2" (LEVEL I)	2
10		#6 x 14'-1" (LEVEL I)	8
11	BU-901	#4 BENT BAR (LEVEL I)	8
12	BU-902	#4 BENT BAR (LEVEL I)	2
14	MK-K2	4T x 7 1/8" SWIFT LIFT LIFTER	4

MARK: BU-A55	QTY.: 1	WT: 12.56T	VOL: 6.20 CY
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MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-531L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
2	BU-533L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
3	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
4	BU-539L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
5	BU-540L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
6	BU-541L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
7	BU-542L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
8	BU-543L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
9		#6 x 16'-11" (LEVEL I)	1
10		#6 x 14'-7" (LEVEL I)	10
11	BU-901	#4 BENT BAR (LEVEL I)	10
12		#4 x 16'-11" (LEVEL I)	1
13	MK-K2	4T x 7 1/8" SWIFT LIFT LIFTER	4

SHOP DRAWING REVIEW

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REJECTED     REVISE AND RESUBMIT     APPROVED AS NOTED

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CLD Consulting Engineers    Job Number: 120121  
240 Commercial Street    Reviewed by: SRB  
Manchester, NH 03101    Date: 04/10/2015  
603-988-8223

APPROVAL STAMP:

<p><b>J.P. CARRARA &amp; SONS INC.</b> Precast &amp; Prestress Manufacturer 264 CAGE STR., MOULBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</p> <p>STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA</p> <p>TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)</p> <p style="text-align: center;">PRECAST APPROACH SLAB DETAILS</p>	<p><b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE</p> <p>DATE: MAR. 26, 2015 SCALE: NOTED CHKD: DFTM: JDK JOB NO: 23454-015 DWG. NO: A53</p>
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Vermont Agency of Transportation  
**RECEIVED**  
 OK'D BY: [Signature]  
 RESUBMIT No: [Blank]  
 BY Rob Young  
 DATE: April 6, 2015  
 Approved As Noted  
 DATE: 04/13/2015



**SHOP DRAWING REVIEW**

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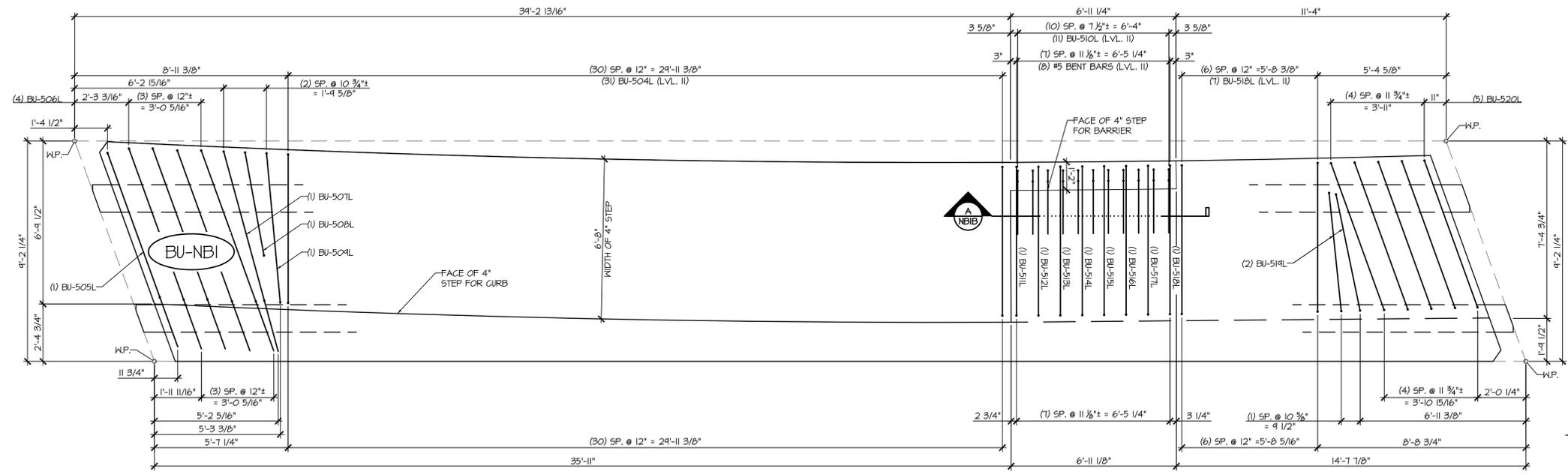
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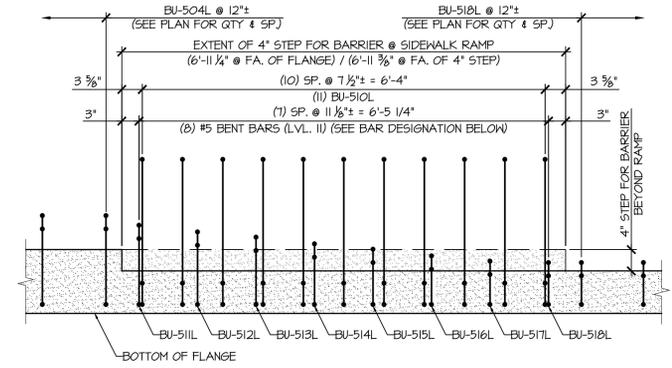
 GLD Consulting Engineers  
 540 Commercial Street  
 Manchester, NH 03101  
 603-888-8223

Job Number: 120121  
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 Date: 04/10/2015

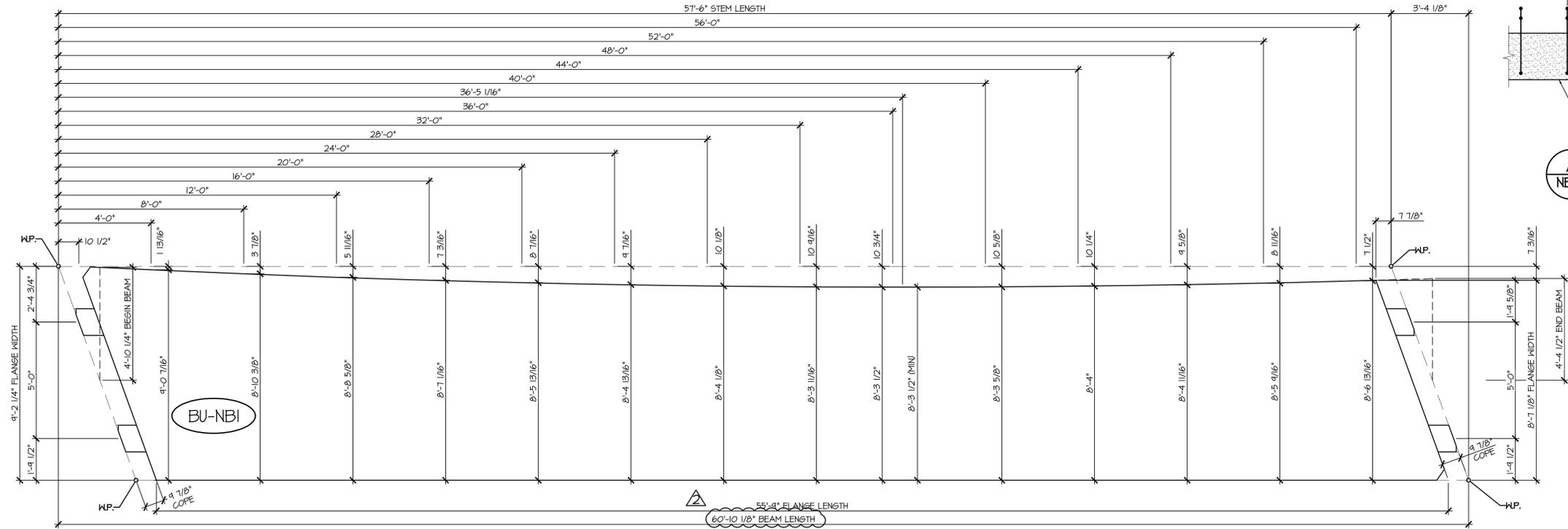
Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY \_\_\_\_\_ OK'D BY \_\_\_\_\_  
 April 6, 2015  
 RESUBMIT No Approved As Noted  
 BY Rob Young DATE 04/13/2015



**1**  
 NBIB SIDEWALK REINFORCING PLAN VIEW IN FORM  
 $\frac{3}{8}'' = 1'-0''$   
 - SEE SHEET NBIC FOR STEM REINFORCING AT BEAM ENDS  
 - SEE SHEET NBID FOR FLANGE REINFORCING AT BEAM END

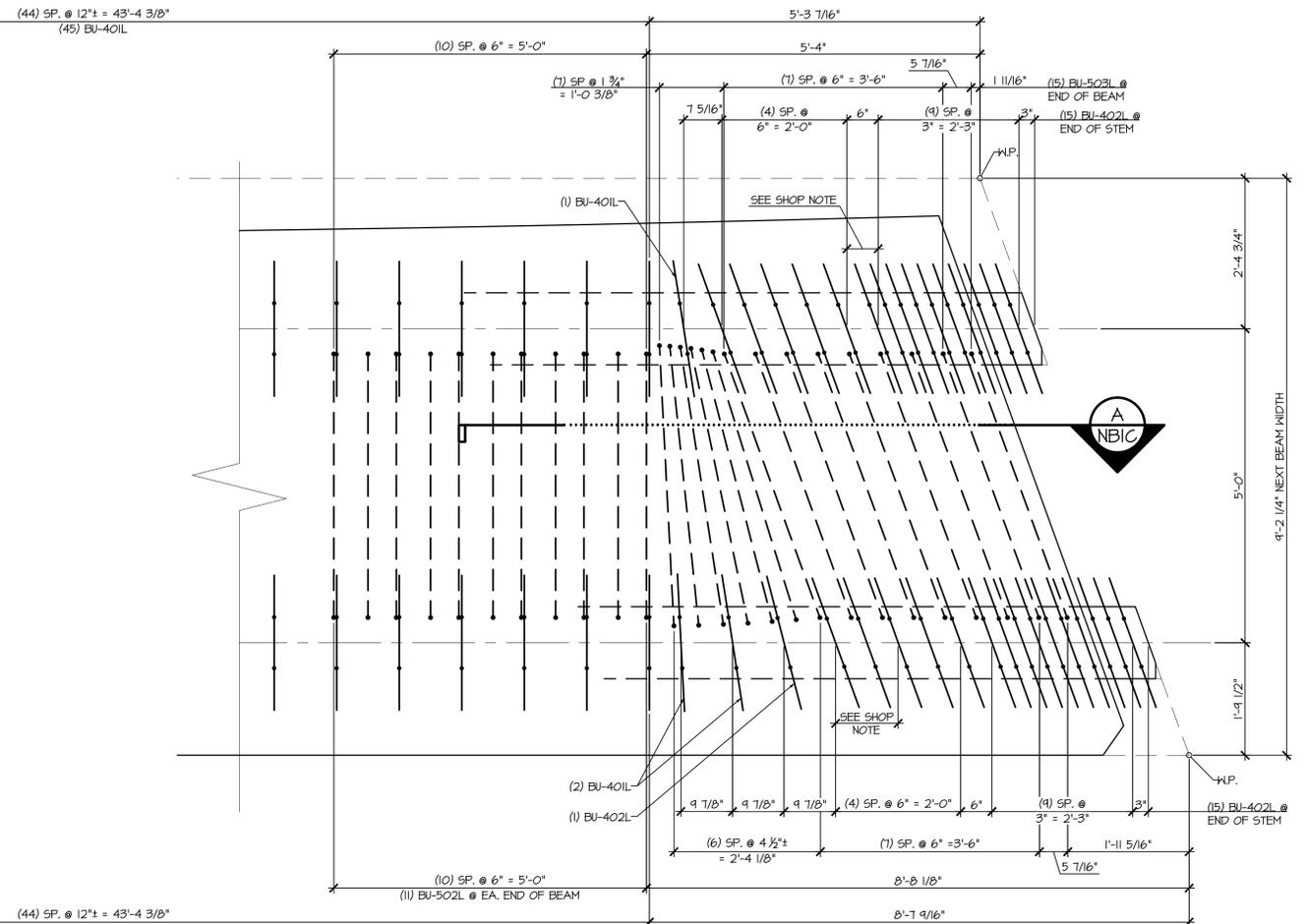
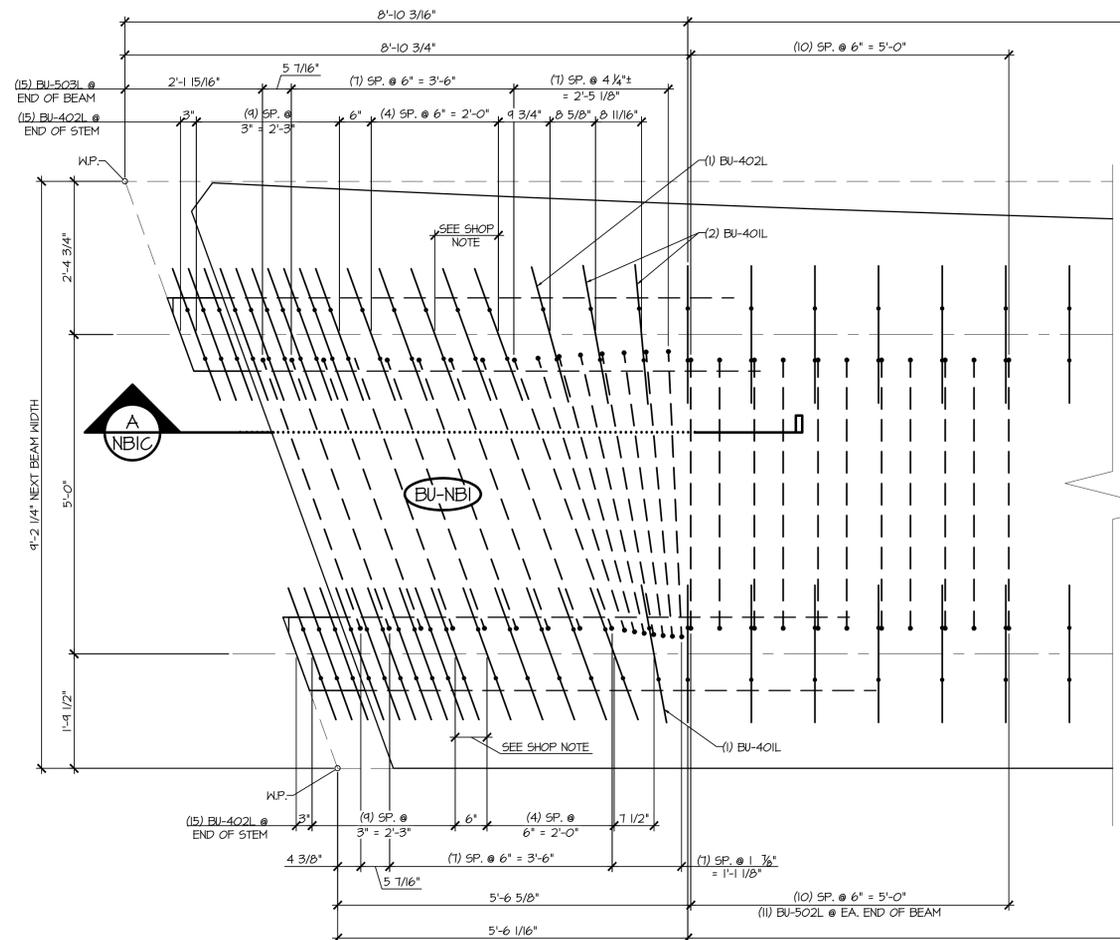


**A**  
 NBIB SIDEWALK TRANSITION REINFORCING SECTION  
 $\frac{3}{4}'' = 1'-0''$



**2**  
 NBIB CURVED FLANGE LAYOUT  
 $\frac{3}{8}'' = 1'-0''$

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	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 26, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK	JOB NO: 23454-015
	PRESTRESSED NEXT BEAM DETAILS		DWG. NO: NBIB	



**1** STEM REINFORCING PLAN VIEW IN FORM  
NBIC

SHOP NOTE  
- STIRRUP SPACING TO BE ADJUSTED TO ALLOW FOR 2" PVC SLEEVE

**2** STEM REINFORCING PLAN VIEW IN FORM  
NBIC

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY  
- SEE SHEET NBID FOR REINFORCING PLAN  
- SEE SHEET NBID FOR SIDEWALK REINFORCING PLAN  
- SEE SHEET NBID FOR FLANGE REINFORCING AT BEAM END

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY  
- SEE SHEET NBID FOR REINFORCING PLAN  
- SEE SHEET NBID FOR SIDEWALK REINFORCING PLAN  
- SEE SHEET NBID FOR FLANGE REINFORCING AT BEAM END

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY \_\_\_\_\_ OK'D BY \_\_\_\_\_  
April 6, 2015  
RESUBMIT No Approved AsNoted  
By Rob Young DATE 04/13/2015

**SHOP DRAWING REVIEW**

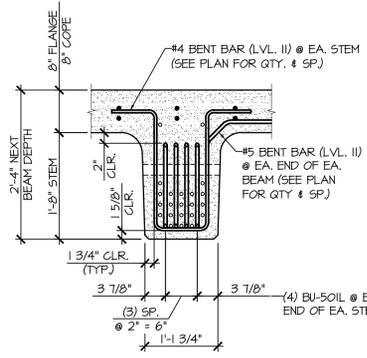
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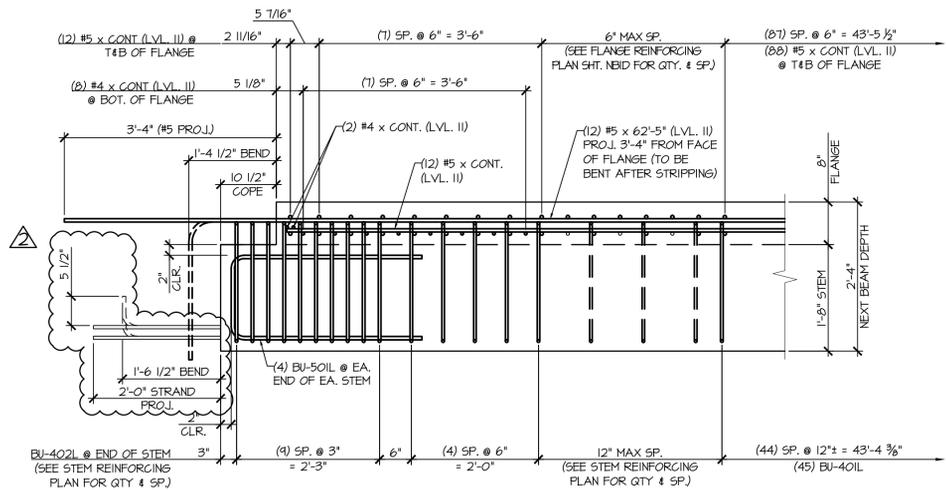
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CLD Consulting Engineers  
240 Commercial Street  
Manchester, NH 03101  
603-888-9263

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015



STEM SECTION



STEM ELEVATION

**A** END BLOCK STEM REINFORCING DETAILS  
NBIC

APPROVAL STAMP:

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

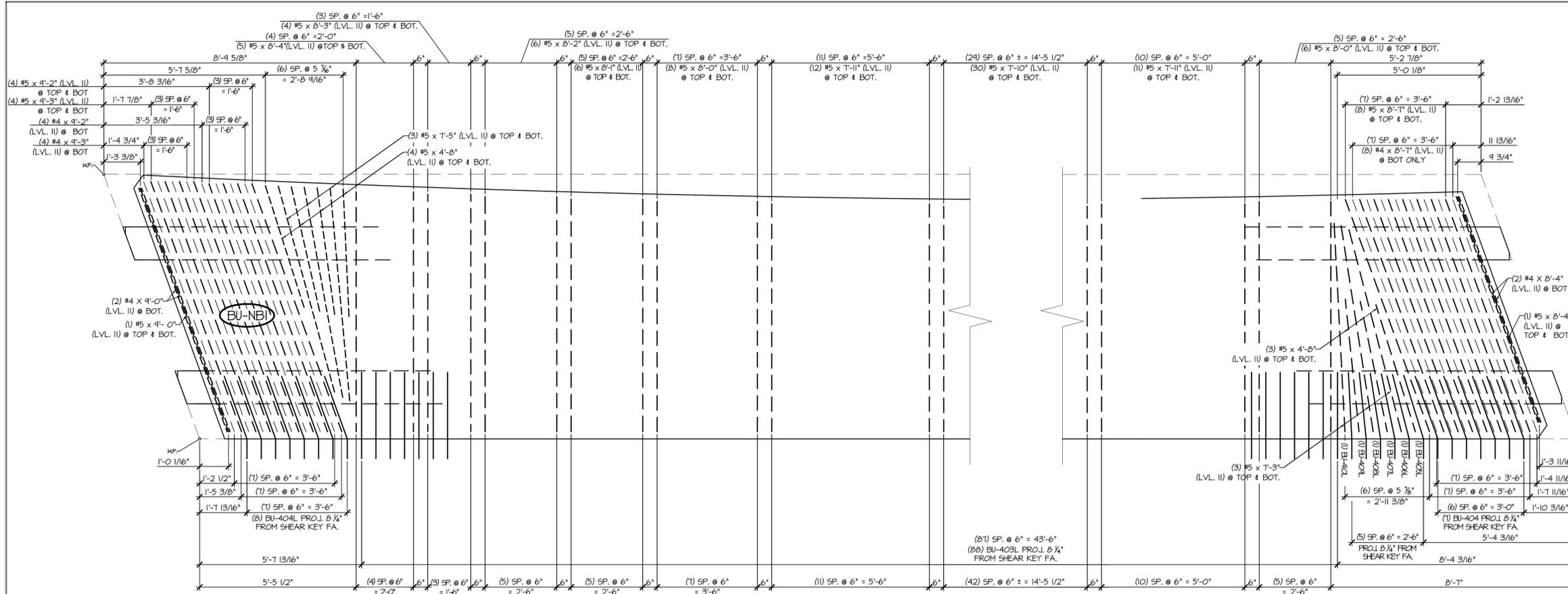
**T. BUCK CONSTRUCTION, INC.**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 26, 2015  
SCALE: NOTED  
CHKD: DFTM: JDK  
JOB NO: 23454-015  
DWG. NO: NBIC

PRESTRESSED NEXT BEAM DETAILS

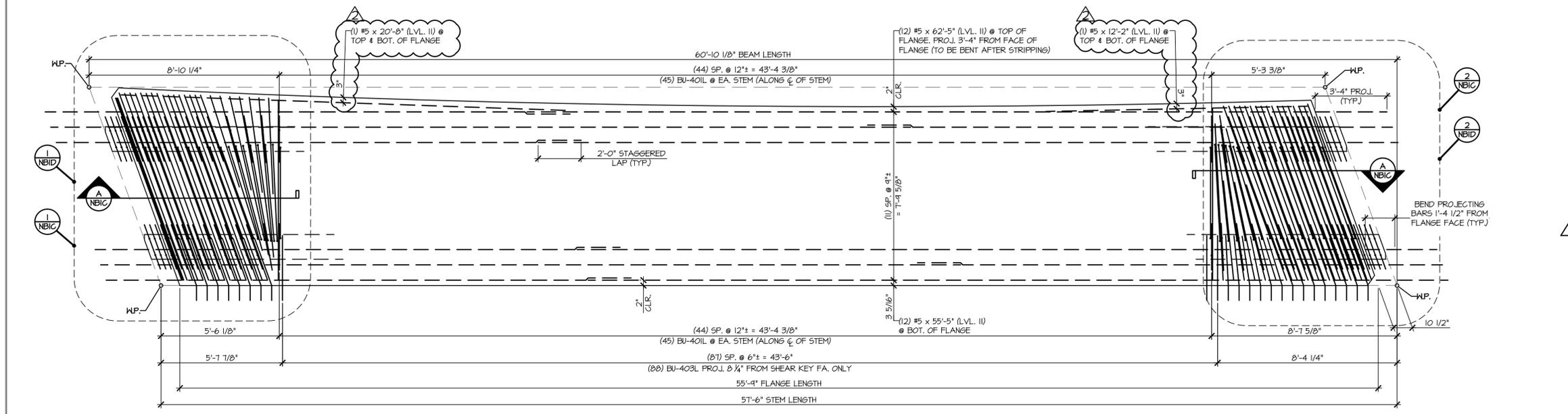


**1** NBID FLANGE REINFORCING PLAN VIEW IN FORM  $\frac{1}{2}'' = 1'-0''$

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NBID FOR SIDEWALK REINFORCING PLAN
- SEE SHEET NBID FOR STEM REINFORCING AT BEAM END

**2** NBID FLANGE REINFORCING PLAN VIEW IN FORM  $\frac{1}{2}'' = 1'-0''$

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NBID FOR SIDEWALK REINFORCING PLAN
- SEE SHEET NBID FOR STEM REINFORCING AT BEAM END



**3** NBID REINFORCING PLAN VIEW IN FORM  $\frac{3}{8}'' = 1'-0''$

- SEE DETAIL "INBID" FOR SIDEWALK, DRIVEWAY & RAILING LAYOUT & REINFORCEMENT DETAILS
- SEE SHT. "NBIC" FOR STEM REINFORCEMENT DETAILS
- SEE SHT. "NBID" FOR FLANGE REINFORCEMENT DETAILS

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY: \_\_\_\_\_ OK'D BY: \_\_\_\_\_  
APR 6, 2015  
RESUBMIT No Approved AsNoted  
BY Rob Young DATE 04/13/2015

**SHOP DRAWING REVIEW**

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CLD Consulting Engineers  
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Job Number: 120121  
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APPROVAL STAMP:

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CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

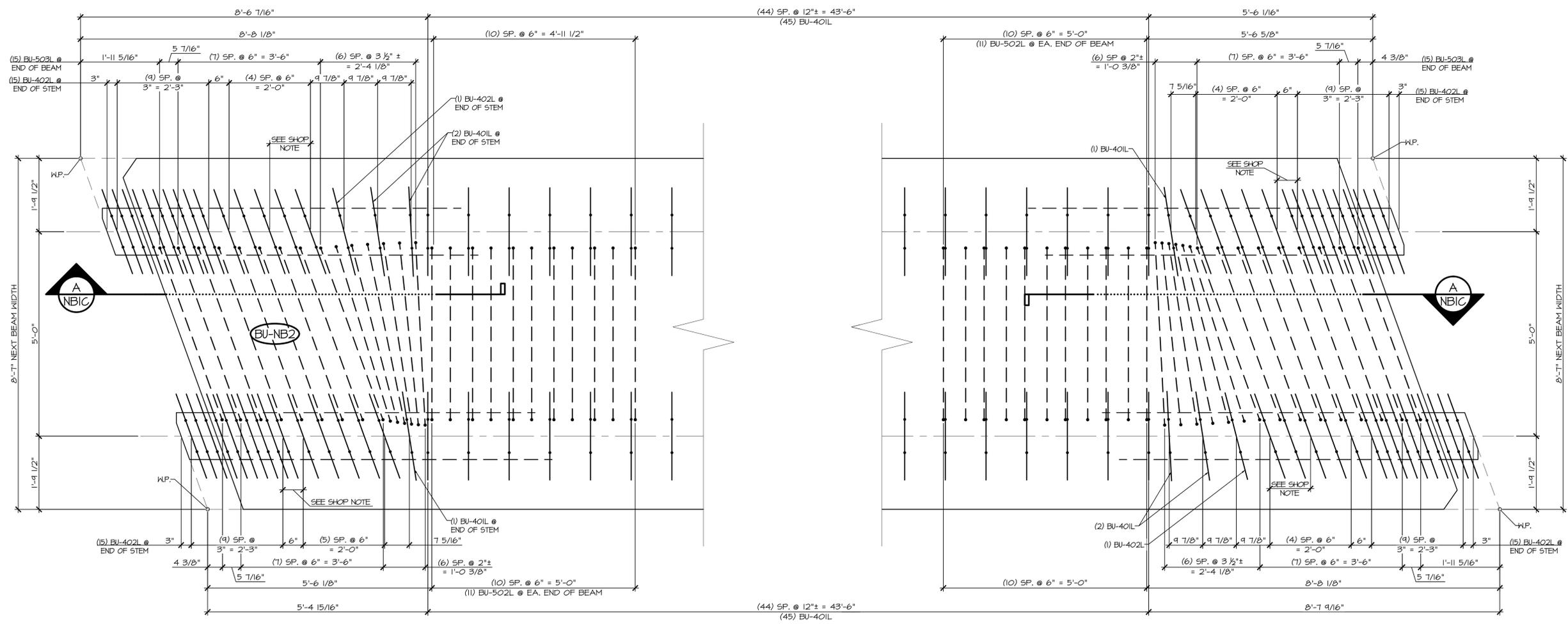
TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

PRESTRESSED NEXT BEAM DETAILS

DATE: MAR. 26, 2015  
SCALE: NOTED  
CHKD: DFTM: JDK  
JOB NO: 23454-015  
DWG. NO: NBID

MARK: BU-NBI		QTY.:	WT: 47.52T	VOL: 23.47CY
MATERIAL LIST / ABUTMENT				
ITEM	MARK	DESCRIPTION	QTY.	
1	BU-40IL	#4 BENT BAR (LEVEL II, DUAL COATED)	96	
2	BU-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	62	
3	BU-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	88	
4	BU-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	15	
5	BU-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	1	
6	BU-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	1	
7	BU-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	1	
8	BU-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	1	
9	BU-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	1	
10	BU-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	1	
11		#4 x 8'-4" (LEVEL II, DUAL COATED)	2	
12		#4 x 8'-7" (LEVEL II, DUAL COATED)	8	
13		#4 x 9'-0" (LEVEL II, DUAL COATED)	2	
14		#4 x 9'-2" (LEVEL II, DUAL COATED)	4	
15		#4 x 9'-3" (LEVEL II, DUAL COATED)	4	
16	BU-50IL	#5 BENT BAR (LEVEL II, DUAL COATED)	16	
17	BU-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	22	
18	B-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	30	
19	BU-504L	#5 BENT BAR (LEVEL II, DUAL COATED)	31	
20	BU-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
21	BU-506L	#5 BENT BAR (LEVEL II, DUAL COATED)	4	
22	BU-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
23	BU-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
24	BU-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
25	BU-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	11	
26	BU-511L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
27	BU-512L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
28	BU-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
29	BU-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
30	BU-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
31	BU-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
32	BU-517L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
33	BU-518L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	
34	BU-519L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
35	BU-520L	#5 BENT BAR (LEVEL II, DUAL COATED)	5	
36		#5 x 4'-8" (LEVEL II, DUAL COATED)	14	
37		#5 x 7'-3" (LEVEL II, DUAL COATED)	6	
38		#5 x 7'-5" (LEVEL II, DUAL COATED)	6	
39		#5 x 7'-10" (LEVEL II, DUAL COATED)	60	
40		#5 x 7'-11" (LEVEL II, DUAL COATED)	46	
41		#5 x 8'-0" (LEVEL II, DUAL COATED)	28	
42		#5 x 8'-1" (LEVEL II, DUAL COATED)	12	
43		#5 x 8'-2" (LEVEL II, DUAL COATED)	12	
44		#5 x 8'-3" (LEVEL II, DUAL COATED)	8	
45		#5 x 8'-4" (LEVEL II, DUAL COATED)	12	
46		#5 x 8'-7" (LEVEL II, DUAL COATED)	16	
47		#5 x 9'-0" (LEVEL II, DUAL COATED)	2	
48		#5 x 9'-2" (LEVEL II, DUAL COATED)	8	
49		#5 x 9'-3" (LEVEL II, DUAL COATED)	8	
50		#5 x 12'-2" (LEVEL II, DUAL COATED)	2	
51		#5 x 20'-8" (LEVEL II, DUAL COATED)	2	
52		#5 x 55'-5" (40'-0" + 17'-5" W/ 1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	12	
53		#5 x 62'-5" (40'-0" + 24'-5" W/ 1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	12	
54		SET OF (4) 0.50"Ø x 270 KSI STRAND LIFTING LOOPS	4	
55		DAYTON B-16 COIL LOOP INSERTS, 3/4" COIL, SML 3000	28	





**1** STEM REINFORCING PLAN VIEW IN FORM  
NB2B

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB2C FOR REINFORCING PLAN
- SEE SHEET NB2C FOR FLANGE REINFORCING AT BEAM END

SHOP NOTE  
- STIRRUP SPACING TO BE ADJUSTED TO ALLOW FOR 2" PVC SLEEVE

**2** STEM REINFORCING PLAN VIEW IN FORM  
NB2B

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB2C FOR REINFORCING PLAN
- SEE SHEET NB2C FOR FLANGE REINFORCING AT BEAM END

RESUBMIT NO. BY Rob Young DATE 04/13/2015  
APPROVED AS NOTED  
APRIL 6, 2015

RECEIVED  
Vermont Agency of Transportation

**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  APPROVED AS NOTED

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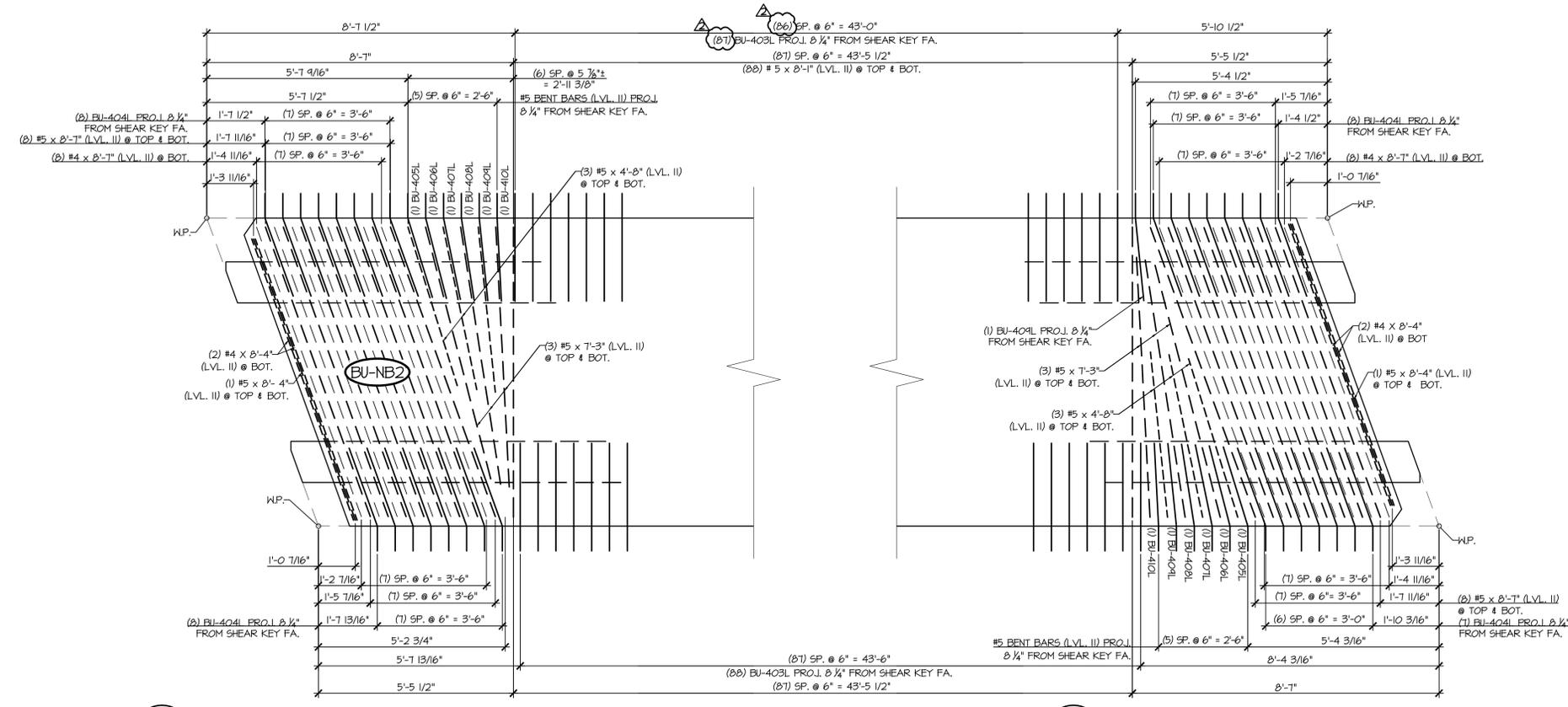
Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

APPROVAL STAMP:

<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 264 CASE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		<b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 26, 2015	SCALE: NOTED
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK	JOB NO: 23454-015
PRESTRESSED NEXT BEAM DETAILS		DWG. NO: NB2B	

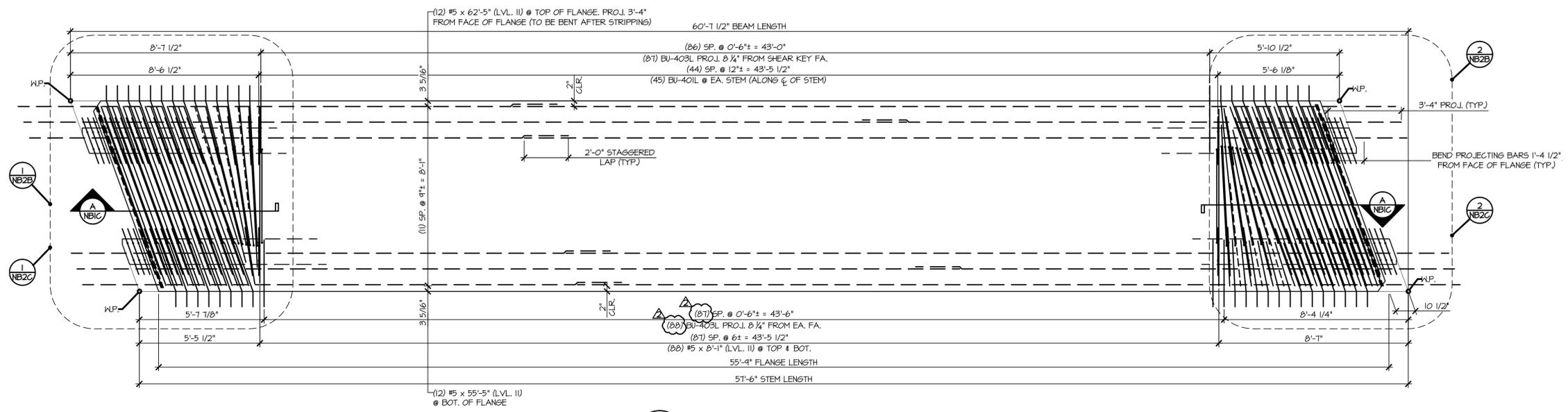
MARK: BU-NB2	QTY.: 2	WT: 41.34 T	VOL: 20.42 CY
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MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	46
2	BU-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	62
3	BU-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	175
4	BU-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	31
5	BU-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
6	BU-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
7	BU-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
8	BU-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
9	BU-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	3
10	BU-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
11		#4 x 8'-4" (LEVEL II, DUAL COATED)	4
12		#4 x 8'-7" (LEVEL II, DUAL COATED)	16
13	BU-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
14	BU-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	22
15	BU-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	30
16		#5 x 4'-8" (LEVEL II, DUAL COATED)	12
17		#5 x 7'-3" (LEVEL II, DUAL COATED)	12
18		#5 x 8'-1" (LEVEL II, DUAL COATED)	176
19		#5 x 8'-4" (LEVEL II, DUAL COATED)	4
20		#5 x 8'-7" (LEVEL II, DUAL COATED)	32
21		#5 x 55'-5" (40'-0" + 17'-5" W/ (1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	12
22		#5 x 62'-5" (40'-0" + 24'-5" W/ (1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	12
23		SET OF (4) 0.50"φ x 270 KSI STRAND LIFTING LOOPS	4
24		DAYTON B-16 COIL LOOP INERTS, 3/4" COIL, 5ML 3000	28



**1 NB2C** FLANGE REINFORCING PLAN VIEW IN FORM  
 1/2" = 1'-0"  
 - LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY  
 - SEE SHEET NB2B FOR STEM REINFORCING AT BEAM END

**2 NB2C** FLANGE REINFORCING PLAN VIEW IN FORM  
 1/2" = 1'-0"  
 - LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY  
 - SEE SHEET NB2B FOR STEM REINFORCING AT BEAM END



**3 NB2C** REINFORCING PLAN VIEW IN FORM  
 3/8" = 1'-0"  
 - SEE SH. NB2B FOR STEM REINFORCEMENT AT BEAM ENDS  
 - SEE '1/NB2C' FOR FLANGE REINFORCEMENT AT BEAM ENDS

Vermont Agency of Transportation  
**RECEIVED**  
 APR 6, 2015  
 RESUBMIT No. Approved As Noted  
 BY: Rob Young DATE: 04/13/2015

SHOP DRAWING REVIEW

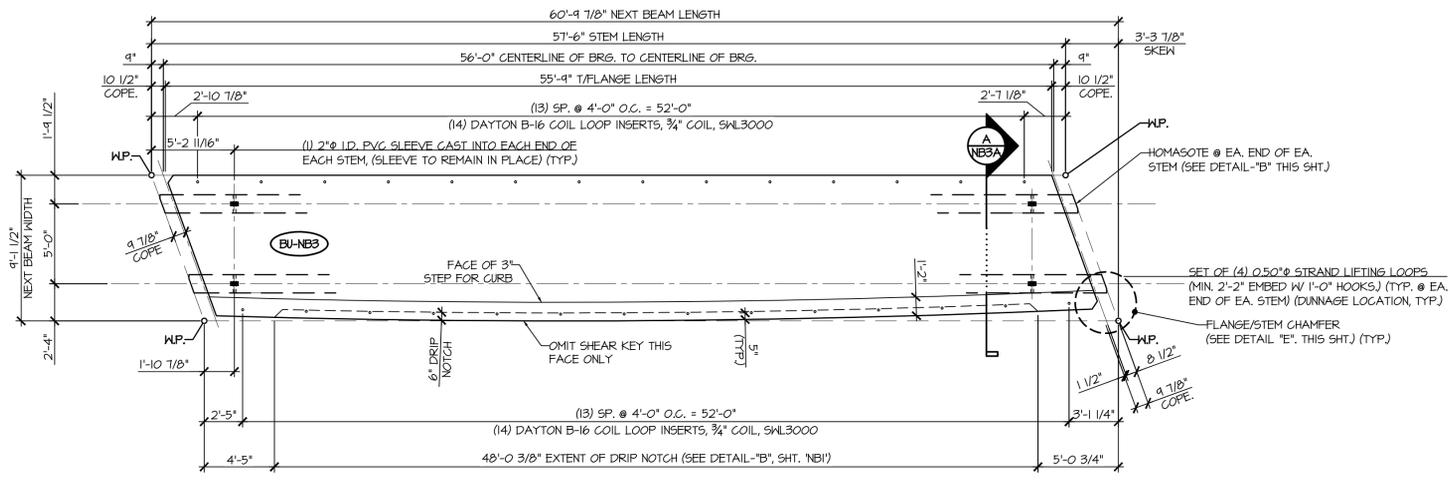
REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.  
 REJECTED  REVISE AND RESUBMIT  APPROVED AS NOTED

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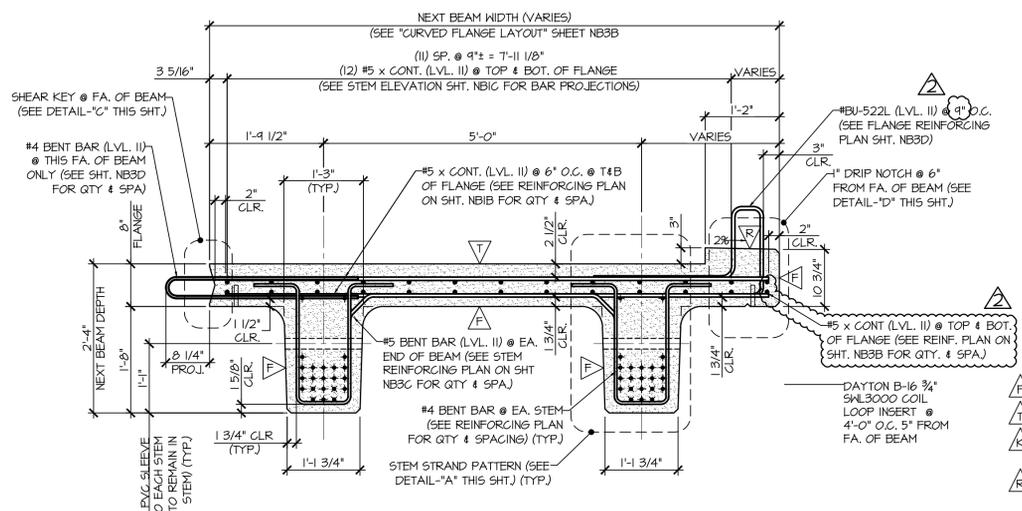
CLD Consulting Engineers  
 640 Commercial Street  
 Manchester, NH 03101  
 603-888-8223

 Job Number: 120121  
 Reviewed by: SRB  
 Date: 04/10/2015

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 264 CREEK STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 26, 2015 SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: DFTM: JDK JOB NO: 23454-015
	PRESTRESSED NEXT BEAM DETAILS	DWG. NO: NB2C



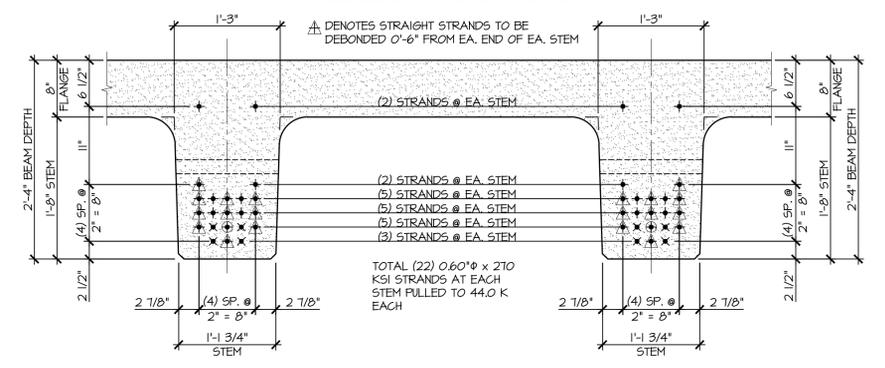
**I**  
**NB3A** DIMENSIONAL PLAN VIEW IN FORM  
3/8" = 1'-0"



**A**  
**NB3A** DIMENSIONAL & REINFORCING SECTION  
3/4" = 1'-0"

**PRESTRESSING NOTATIONS**

- + DENOTES STRAIGHT STRAND TO BE CUT FLUSH WITH EA. END OF EA. STEM
- X DENOTES STRAIGHT STRAND TO EXTEND 2'-0" FROM EA. END OF EA. STEM
- ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 2'-0" FROM EA. END OF EA. STEM
- △ DENOTES STRAIGHT STRANDS TO BE DEBONDED 0'-6" FROM EA. END OF EA. STEM



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

1	3	4	2
5	7	8	6
15	17	18	16
25	27	28	26
35	37	38	36
45	47	48	46

**DETENSING SCHEDULE**  
N.T.S.

- △ DENOTES FORM FINISH
- △ DENOTES SMOOTH SCREENED FINISH
- △ DENOTES ROUGHENED FINISH 1/8" AMPLITUDE
- △ DENOTES ROUGHENED FINISH 1/4" RAKE

**SHOP DRAWING REVIEW**

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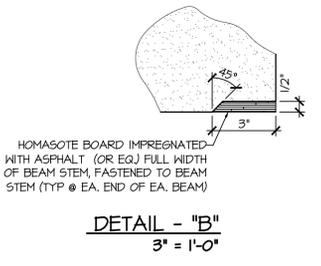
REJECTED     REVISE AND RESUBMIT     APPROVED AS NOTED

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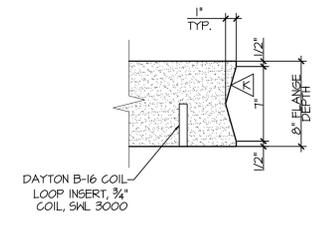
	CLD Consulting Engineers 240 Commercial Street Manchester, NH 03101 603-698-0253	Job Number: 120121 Reviewed by: SRB Date: 04/10/2015
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**RECEIVED**  
Vermont Agency of Transportation  
CK'D BY: [Signature]  
RESUBMIT NO: [Signature]  
DATE: 04/12/2015  
APPROVED AS NOTED

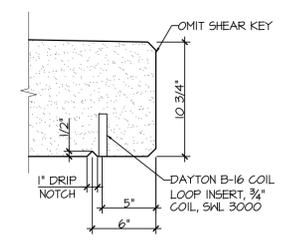
MARK: BU-NB3	QTY.: 1	WT: 43.11 T	VOL: 21.29 CY
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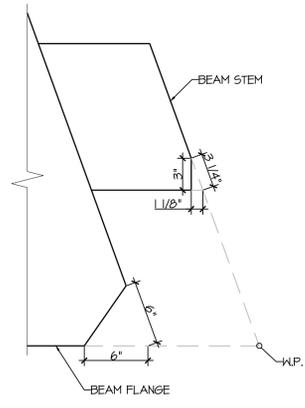
**DETAIL - "B"**  
3" = 1'-0"



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

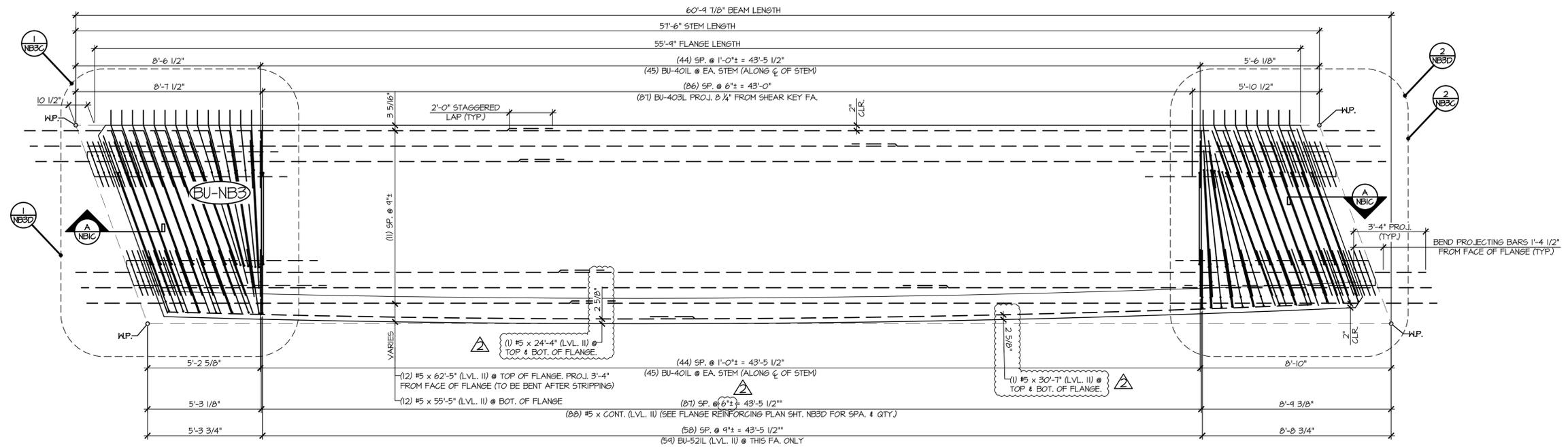


**DETAIL - "D"**  
1 1/2" = 1'-0"

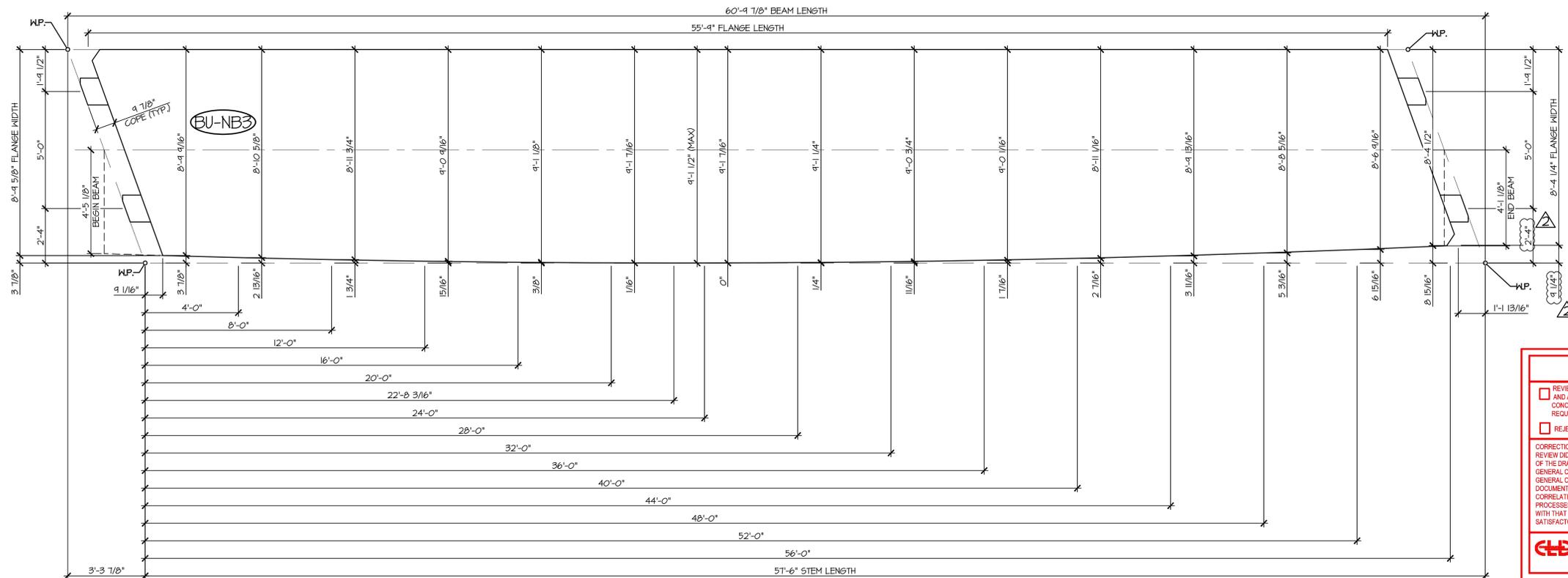


**DETAIL - "E"**  
1 1/2" = 1'-0"

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2464 CASE ST., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010	<b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 26, 2015 SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: [Signature] DFTM: JDC JOB NO: 23454-015
	PRESTRESSED NEXT BEAM DETAILS	



**REINFORCING PLAN VIEW IN FORM**  
 NB3B 3/8" = 1'-0"  
 SEE SHEET 'NB3C' FOR STEM REINFORCING AT BEAM ENDS  
 - SEE SHEET 'NB3D' FOR FLANGE & TEXAS RAIL REINFORCING AT BEAM END



**2 CURVED FLANGE LAYOUT**  
 NB3B 3/8" = 1'-0"

Vermont Agency of Transportation  
**RECEIVED**  
 CKD BY: [Signature] OK'D BY: [Signature]  
 RESUBMIT No. April 6, 2015  
 BY: Rob Young Approved As Noted  
 DATE: 04/13/2015

**SHOP DRAWING REVIEW**

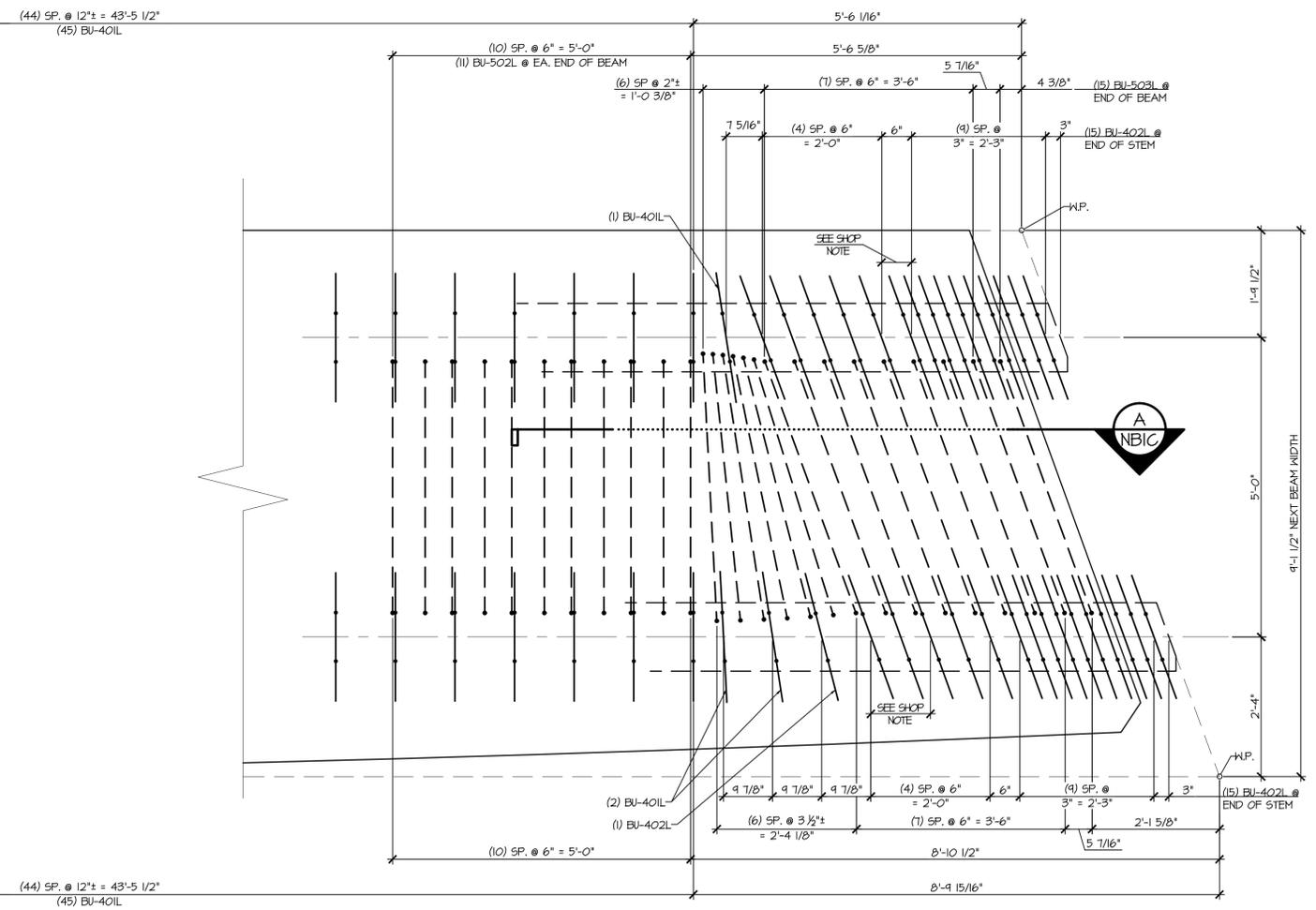
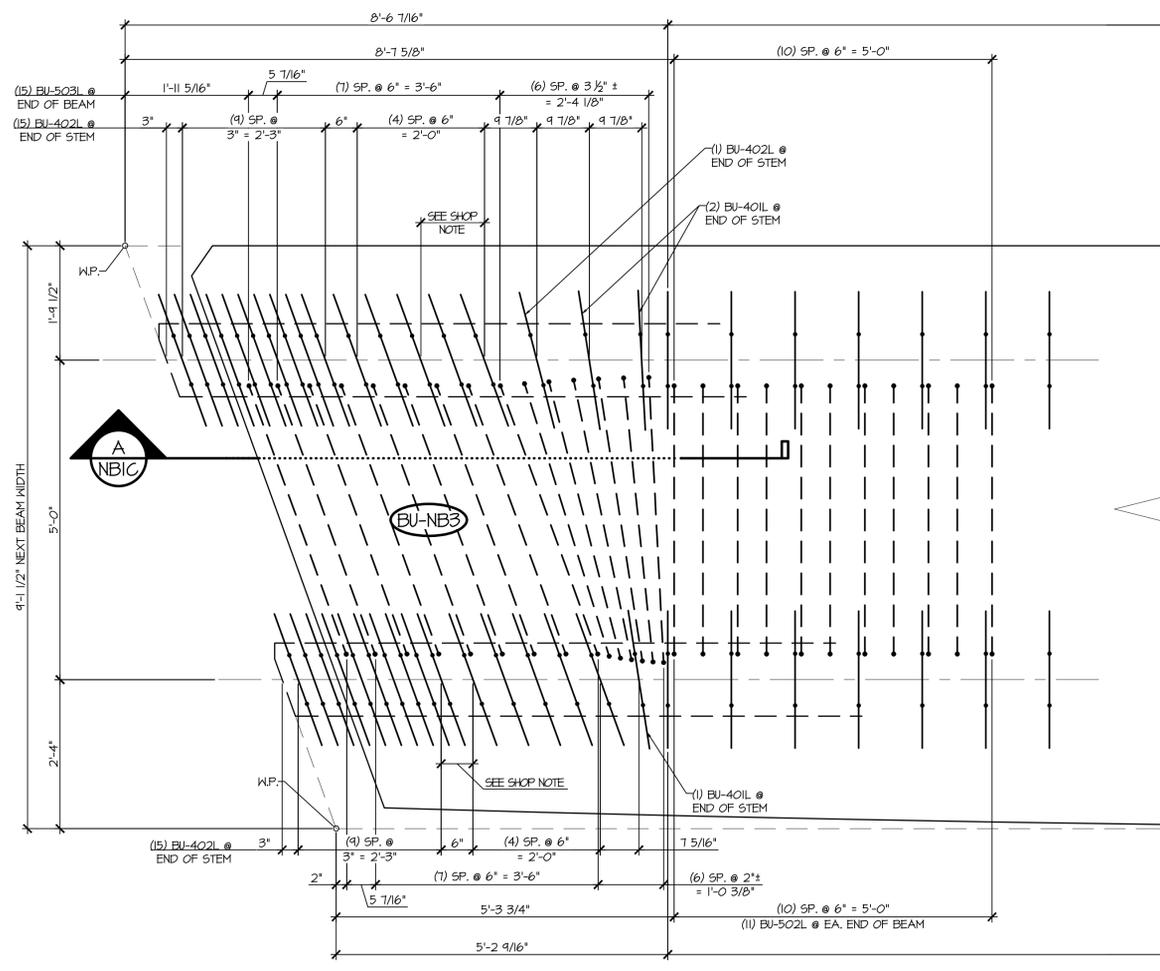
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CLD Consulting Engineers  
 240 Commercial Street  
 Manchester, NH 03101  
 603-666-6222

Job Number: 120121  
 Reviewed by: SRB  
 Date: 04/10/2015

APPROVAL STAMP:  <div style="border: 1px solid black; width: 100px; height: 100px; margin: 5px auto;"></div>	<p><b>J.P. CARRARA &amp; SONS INC.</b>          Precast &amp; Prestress Manufacturer  <small>264 CASE ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small></p> <p style="text-align: center;">STATE OF VERMONT AGENCY OF TRANSPORTATION          COUNTY OF CALEDONIA</p> <p style="text-align: center;">TOWN OF BURKE          VERMONT ROUTE 114          BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)</p> <p style="text-align: center;">PRESTRESSED NEXT BEAM DETAILS</p>	<p><b>T. BUCK CONSTRUCTION, INC.</b>          CONTRACTOR          AUBURN, MAINE</p> <p>DATE: MAR. 26, 2015          SCALE: NOTED</p> <p>CHKD: DFTM: JDK          JOB NO: 23454-015</p> <p>DWG. NO: NB3B</p>
--	---	---



**1**  
NB3C  
**STEM REINFORCING PLAN VIEW IN FORM**  
3/4" = 1'-0"  
- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY  
- SEE SHEET NB3B FOR REINFORCING PLAN  
- SEE SHEET NB3D FOR FLANGE REINFORCING AT BEAM END

SHOP NOTE  
- STIRRUP SPACING TO BE ADJUSTED TO ALLOW FOR 2" PVC SLEEVE

**2**  
NB3C  
**STEM REINFORCING PLAN VIEW IN FORM**  
3/4" = 1'-0"  
- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY  
- SEE SHEET NB3B FOR REINFORCING PLAN  
- SEE SHEET NB3D FOR FLANGE REINFORCING AT BEAM END

VERMONT AGENCY OF TRANSPORTATION  
**RECEIVED**  
APR 6, 2015  
RESUBMIT No. Approved As Noted  
BY Rob Young DATE 04/13/2015

**SHOP DRAWING REVIEW**

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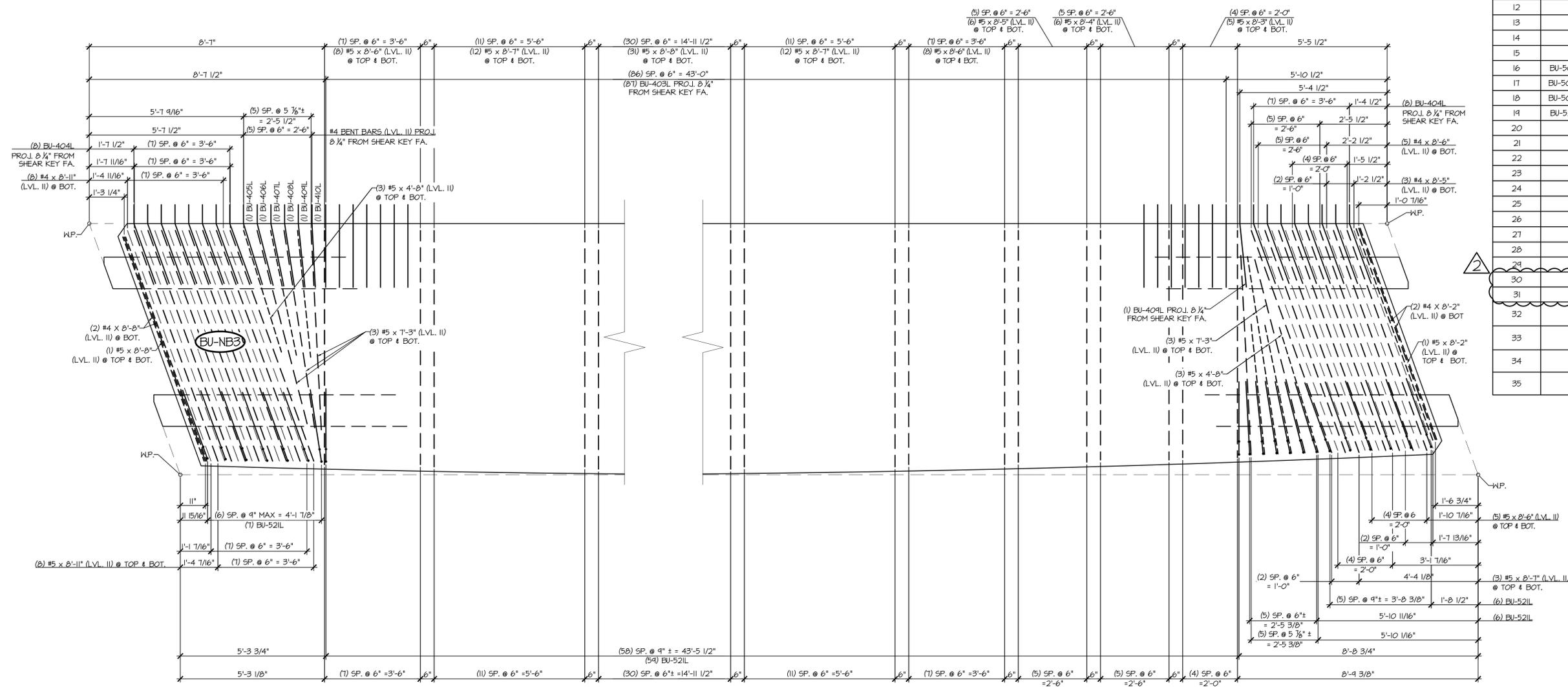
Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 264 CAGE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 26, 2015 SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: DFTM: JDK JOB NO: 23454-015
	PRESTRESSED NEXT BEAM DETAILS	DWG. NO: NB3C

MARK: BU-NB3	QTY.: 1	WT: 43.11T	VOL: 21.29 CY
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MATERIAL LIST / NEXT BEAM

ITEM	MARK	DESCRIPTION	QTY.
1	BU-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	46
2	BU-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	62
3	BU-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	81
4	BU-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
5	BU-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
6	BU-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
7	BU-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
8	BU-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
9	BU-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
10	BU-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
11		#4 x 8'-2" (LEVEL II, DUAL COATED)	2
12		#4 x 8'-5" (LEVEL II, DUAL COATED)	3
13		#4 x 8'-6" (LEVEL II, DUAL COATED)	5
14		#4 x 8'-8" (LEVEL II, DUAL COATED)	2
15		#4 x 8'-11" (LEVEL II, DUAL COATED)	8
16	BU-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
17	BU-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	22
18	BU-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	30
19	BU-521L	#5 BENT BAR (LEVEL II, DUAL COATED)	78
20		#5 x 4'-8" (LEVEL II, DUAL COATED)	12
21		#5 x 7'-3" (LEVEL II, DUAL COATED)	12
22		#5 x 8'-2" (LEVEL II, DUAL COATED)	2
23		#5 x 8'-3" (LEVEL II, DUAL COATED)	10
24		#5 x 8'-4" (LEVEL II, DUAL COATED)	12
25		#5 x 8'-5" (LEVEL II, DUAL COATED)	12
26		#5 x 8'-6" (LEVEL II, DUAL COATED)	42
27		#5 x 8'-7" (LEVEL II, DUAL COATED)	54
28		#5 x 8'-8" (LEVEL II, DUAL COATED)	64
29		#5 x 8'-11" (LEVEL II, DUAL COATED)	16
30		#5 x 24'-4" (LEVEL II, DUAL COATED)	2
31		#5 x 30'-7" (LEVEL II, DUAL COATED)	2
32		#5 x 58'-5" (40'-0" + 17'-5" W/ 1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	12
33		#5 x 62'-5" (40'-0" + 24'-5" W/ 1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	12
34		SET OF (4) 0.50" x 270 KSI STRAND LIFTING LOOPS	4
35		DAYTON B-16 COIL LOOP INSERTS, 3/4" COIL, 5HL 3000	28



1 NB3D FLANGE REINFORCING PLAN VIEW IN FORM 1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB3B FOR REINFORCING PLAN
- SEE SHEET NB3C FOR STEM REINFORCING AT BEAM END

2 NB3D FLANGE REINFORCING PLAN VIEW IN FORM 1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB3B FOR REINFORCING PLAN
- SEE SHEET NB3C FOR STEM REINFORCING AT BEAM END

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CLD Consulting Engineers  
340 Commercial Street  
Manchester, NH 03101  
603-688-6222

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

CKD BY: [Signature]  
RESUBMIT NO: April 6, 2015  
DATE: 04/13/2015  
Approved As Noted  
BY: Rob Young

Vermont Agency of Transportation  
**RECEIVED**

APPROVAL STAMP:

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

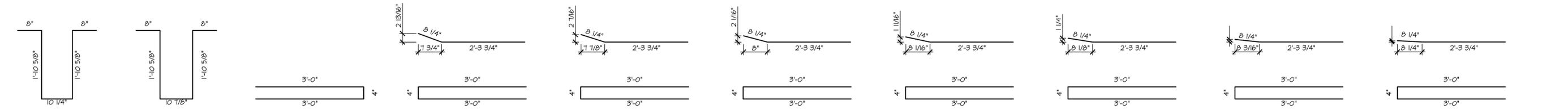
**T. BUCK CONSTRUCTION, INC.**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

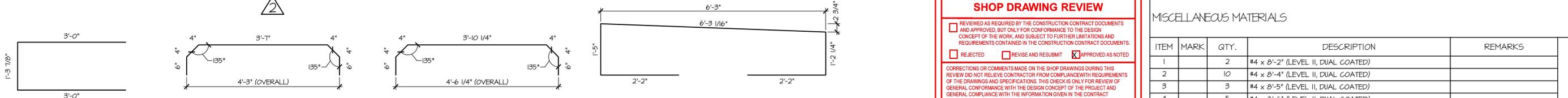
TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 26, 2015  
SCALE: NOTED  
CHKD: DFTM: JDK  
JOB NO: 23454-015

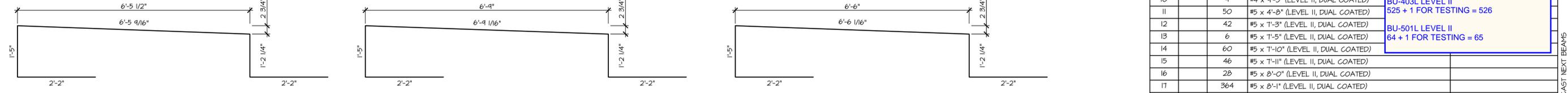
PRESTRESSED NEXT BEAM DETAILS DWG. NO: NB3D



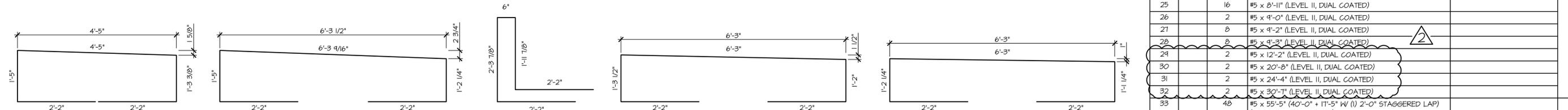
**BU-401L** #4 BENT BAR LEVEL II (DUAL COATED) USE 2"  $\phi$  [50MM] PIN (304) REQ'D.  
**BU-402L** #4 BENT BAR LEVEL II (DUAL COATED) USE 2"  $\phi$  [50MM] PIN (248) REQ'D.  
**BU-403L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [75MM] PIN (525) REQ'D.  
**BU-404L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [75MM] PIN (43) REQ'D.  
**BU-405L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [75MM] PIN (6) REQ'D.  
**BU-406L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [75MM] PIN (6) REQ'D.  
**BU-407L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [75MM] PIN (6) REQ'D.  
**BU-408L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [75MM] PIN (6) REQ'D.  
**BU-409L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [50MM] PIN (4) REQ'D.  
**BU-410L** #4 BENT BAR LEVEL II (DUAL COATED) USE 3"  $\phi$  [50MM] PIN (6) REQ'D.



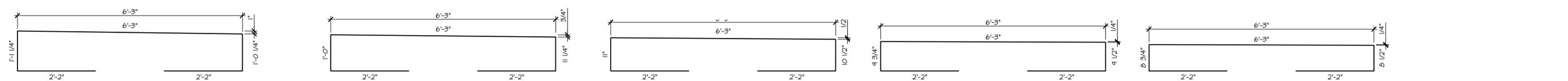
**BU-501L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (64) REQ'D.  
**BU-502L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (88) REQ'D.  
**BU-503L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (120) REQ'D.  
**BU-504L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (31) REQ'D.



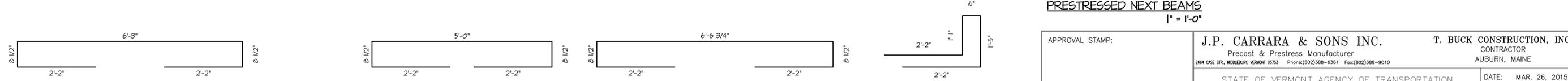
**BU-505L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-506L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (4) REQ'D.  
**BU-507L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.



**BU-508L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-509L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-510L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (11) REQ'D.  
**BU-511L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-512L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.



**BU-513L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-514L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-515L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-516L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.  
**BU-517L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (1) REQ'D.



**BU-518L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (8) REQ'D.  
**BU-519L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (2) REQ'D.  
**BU-520L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (5) REQ'D.  
**BU-521L** #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4"  $\phi$  [95MM] PIN (78) REQ'D.

**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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CLD Consulting Engineers  
540 Commercial Street  
Manchester, NH 03101  
603-888-8223

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

Vermont Agency of Transportation  
**RECEIVED**

CK'D BY: [Signature] OK'D BY: [Signature]  
April 6, 2015

RESUBMIT No Approved AsNoted  
BY Rob Young DATE 04/13/2015

MISCELLANEOUS MATERIALS

ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		2	#4 x 8'-2" (LEVEL II, DUAL COATED)	
2		10	#4 x 8'-4" (LEVEL II, DUAL COATED)	
3		3	#4 x 8'-5" (LEVEL II, DUAL COATED)	
4		5	#4 x 8'-6" (LEVEL II, DUAL COATED)	
5		40	#4 x 8'-7" (LEVEL II, DUAL COATED)	
6		2	#4 x 8'-8" (LEVEL II, DUAL COATED)	
7		8	#4 x 8'-11" (LEVEL II, DUAL COATED)	
8		2	#4 x 9'-0" (LEVEL II, DUAL COATED)	
9		4	#4 x 9'-2" (LEVEL II, DUAL COATED)	
10		4	#4 x 9'-3" (LEVEL II, DUAL COATED)	
11		50	#5 x 4'-8" (LEVEL II, DUAL COATED)	
12		42	#5 x 7'-3" (LEVEL II, DUAL COATED)	
13		6	#5 x 7'-5" (LEVEL II, DUAL COATED)	
14		60	#5 x 7'-10" (LEVEL II, DUAL COATED)	
15		46	#5 x 7'-11" (LEVEL II, DUAL COATED)	
16		28	#5 x 8'-0" (LEVEL II, DUAL COATED)	
17		364	#5 x 8'-1" (LEVEL II, DUAL COATED)	
18		14	#5 x 8'-2" (LEVEL II, DUAL COATED)	
19		18	#5 x 8'-3" (LEVEL II, DUAL COATED)	
20		32	#5 x 8'-4" (LEVEL II, DUAL COATED)	
21		12	#5 x 8'-5" (LEVEL II, DUAL COATED)	
22		42	#5 x 8'-6" (LEVEL II, DUAL COATED)	
23		134	#5 x 8'-7" (LEVEL II, DUAL COATED)	
24		64	#5 x 8'-8" (LEVEL II, DUAL COATED)	
25		16	#5 x 8'-11" (LEVEL II, DUAL COATED)	
26		2	#5 x 9'-0" (LEVEL II, DUAL COATED)	
27		8	#5 x 9'-2" (LEVEL II, DUAL COATED)	
28		8	#5 x 9'-3" (LEVEL II, DUAL COATED)	
29		2	#5 x 12'-2" (LEVEL II, DUAL COATED)	
30		2	#5 x 20'-8" (LEVEL II, DUAL COATED)	
31		2	#5 x 24'-4" (LEVEL II, DUAL COATED)	
32		2	#5 x 30'-7" (LEVEL II, DUAL COATED)	
33		48	#5 x 55'-5" (40'-0" + 17'-5" W/ (1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	
34		48	#5 x 62'-5" (40'-0" + 24'-5" W/ (1) 2'-0" STAGGERED LAP) (LEVEL II, DUAL COATED)	
35		16	SET OF (4) 0.50" $\phi$ x 270 KSI STRAND LIFTING LOOPS	
36		112	DAYTON B-16 COIL LOOP INSERTS, 3/4" COIL, SKL 3000	

THE FOLLOWING BARS MARKS SHALL INCLUDE SAMPLE REBAR FOR TESTING:  
 BU-403L LEVEL II 525 + 1 FOR TESTING = 526  
 BU-501L LEVEL II 64 + 1 FOR TESTING = 65

**PRESTRESSED NEXT BEAMS**  
1" = 1'-0"

APPROVAL STAMP:

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

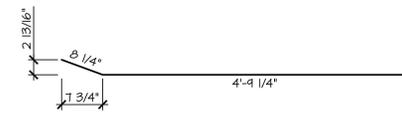
**T. BUCK CONSTRUCTION, INC.**  
CONTRACTOR  
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION  
COUNTY OF CALEDONIA

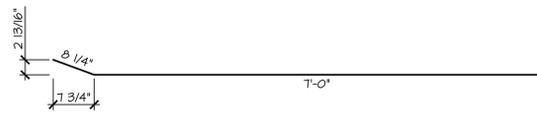
TOWN OF BURKE  
VERMONT ROUTE 114  
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

MATERIALS LIST

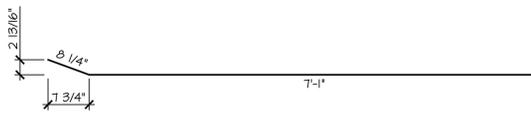
DATE: MAR. 26, 2015  
SCALE: NOTED  
CHKD: DFTM: JDK  
JOB NO: 23454-015  
DWG. NO: M1



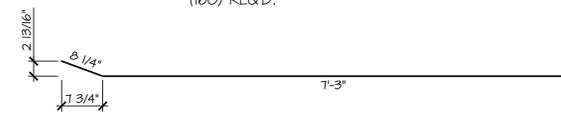
**BU-530L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(160) REQ'D.



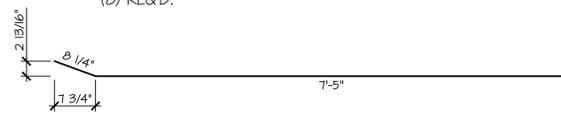
**BU-531L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(b) REQ'D.



**BU-532L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(4) REQ'D.



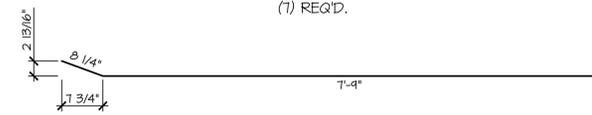
**BU-533L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(7) REQ'D.



**BU-534L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(5) REQ'D.



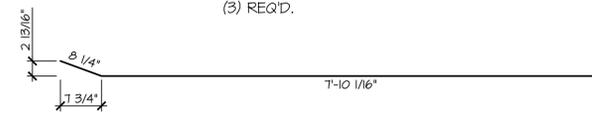
**BU-535L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



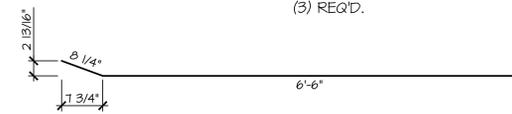
**BU-536L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



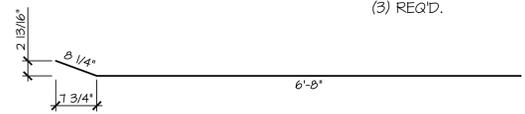
**BU-537L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



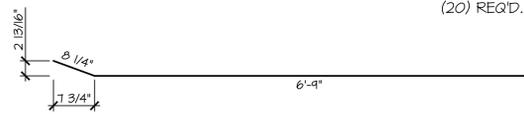
**BU-538L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(20) REQ'D.



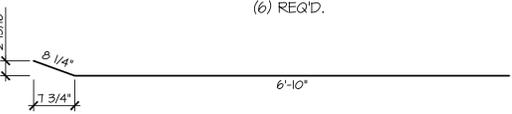
**BU-539L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(6) REQ'D.



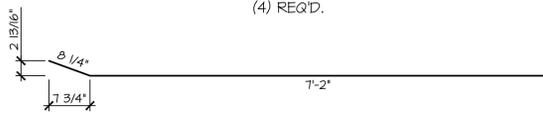
**BU-540L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(4) REQ'D.



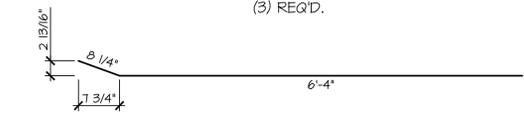
**BU-541L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



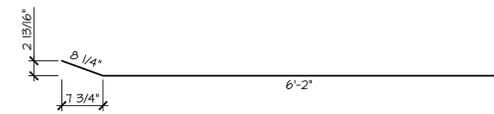
**BU-542L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(5) REQ'D.



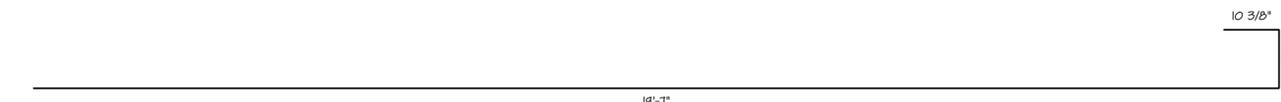
**BU-543L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



**BU-544L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



**BU-545L**  
#5 BENT BAR  
LEVEL II (DUAL COATED)  
USE 3 3/4" PIN  
(3) REQ'D.



**BU-901**  
#9 BENT BAR  
LEVEL I (EPOXY COATED)  
USE 6" PIN  
(14) REQ'D.



**BU-902**  
#9 BENT BAR  
LEVEL I (EPOXY COATED)  
USE 6" PIN  
(2) REQ'D.

MISCELLANEOUS MATERIALS

ITEM	MARK	QTY	DESCRIPTION	REMARKS
1		2	#6 x 16'-2" (LEVEL I EPOXY COATED)	
2		1	#6 x 16'-11" (LEVEL I EPOXY COATED)	
3		2	#6 x 19'-2" (LEVEL I EPOXY COATED)	
4		79	#6 x 19'-7" (LEVEL I EPOXY COATED)	
5		2	#4 x 16'-2" (LEVEL I EPOXY COATED)	
6		1	#4 x 16'-11" (LEVEL I EPOXY COATED)	
7		32	4T x 7 1/8" SWIFT LIFT LIFTER, DOMESTIC ORIGIN	

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY \_\_\_\_\_ OK'D BY \_\_\_\_\_  
April 6, 2015  
RESUBMIT No \_\_\_\_\_ Approved AsNoted  
BY Rob Young DATE 04/13/2015

**SHOP DRAWING REVIEW**

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CLD Consulting Engineers  
340 Commercial Street  
Manchester, NH 03101  
603-688-6222

Job Number: 120121  
Reviewed by: SRB  
Date: 04/10/2015

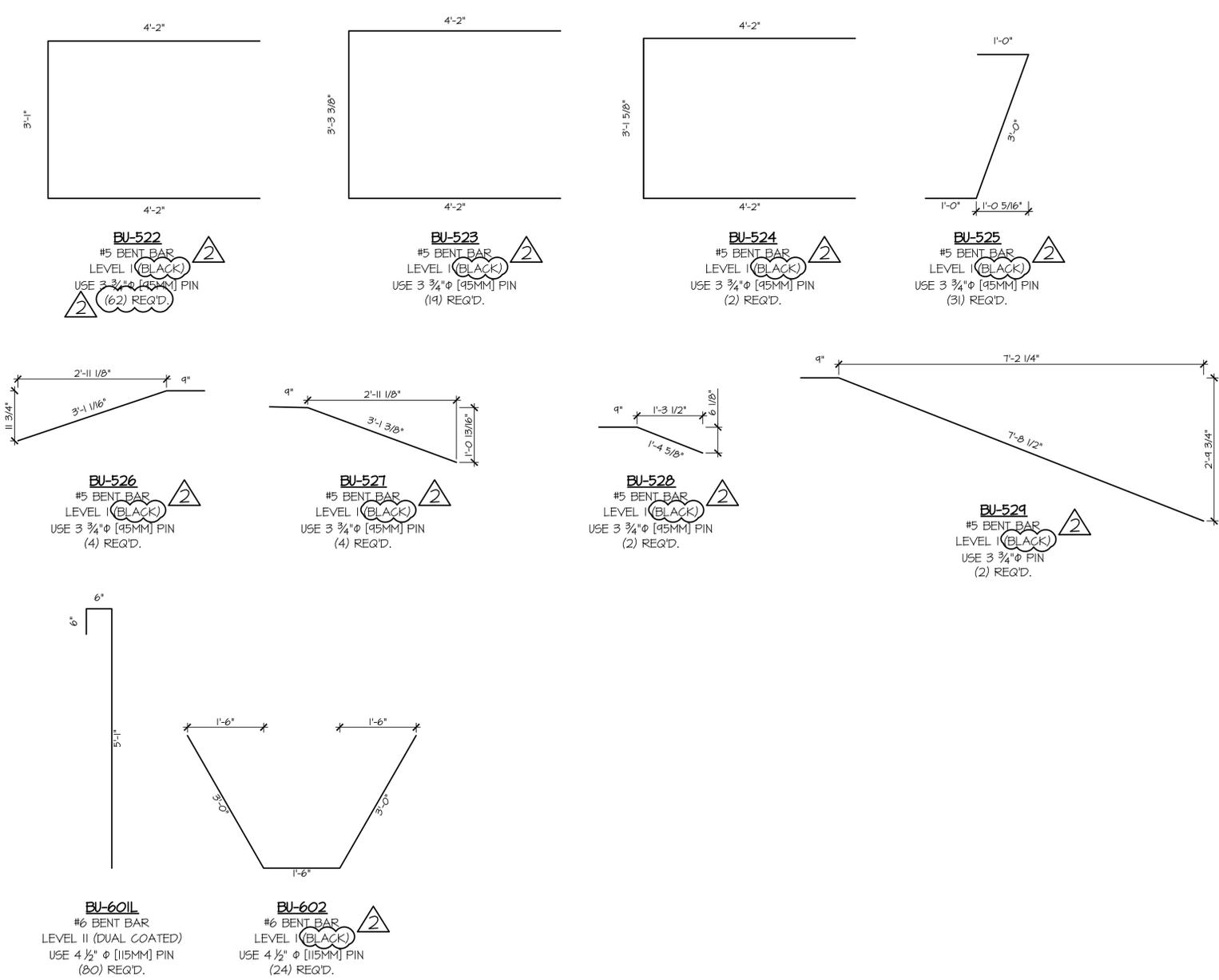
THE FOLLOWING BARS MARKS SHALL INCLUDE SAMPLE REBAR FOR TESTING:

BU-901 LEVEL I EPOXY  
59 + 1 FOR TESTING = 60

#6 19'-7" STRAIGHT FOR LEVEL I EPOXY  
79 + 1 FOR TESTING = 80

PRECAST APPROACH SLABS  
1" = 1'-0"

APPROVAL STAMP:	<b>J.P. CARRARA &amp; SONS INC.</b> Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010		<b>T. BUCK CONSTRUCTION, INC.</b> CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 26, 2015	
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED	CHKD: DFTM: JDK
	MATERIALS LIST		JOB NO: 23454-015	DWG. NO: M2



THE FOLLOWING BARS MARKS SHALL INCLUDE SAMPLE REBAR FOR TESTING:  
 BU-602 BLACK LEVEL I  
 24 + 1 FOR TESTING = 25  
 BU-522 BLACK LEVEL I  
 62 + 1 FOR TESTING = 63

PRECAST ABUTMENTS  
 1" = 1'-0"

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		2	#5 x 2'-2" (LEVEL I, BLACK)	
2		58	#5 x 3'-6" (LEVEL II, DUAL COATED)	
3	2	62	#5 x 4'-2" (LEVEL II, DUAL COATED)	
4		10	#5 x 3'-4" (LEVEL I, BLACK)	
5		2	#5 x 6'-4" (LEVEL I, BLACK)	2
6		16	#6 x 2'-4" (LEVEL I, BLACK)	
7	2	8	#6 x 3'-6" (LEVEL I, BLACK)	
8		38	#6 x 3'-8" (LEVEL I, BLACK)	
9		32	#6 x 3'-11" (LEVEL I, BLACK)	
10		8	#6 x 4'-0" (LEVEL I, BLACK)	
11		25	#6 x 4'-4" (LEVEL I, BLACK)	
12		32	#6 x 4'-7" (LEVEL I, BLACK)	
13		5	#6 x 4'-9" (LEVEL I, BLACK)	
14	2	4	#6 x 4'-11" (LEVEL I, BLACK)	
15		4	#6 x 5'-0" (LEVEL I, BLACK)	
16		17	#6 x 5'-2" (LEVEL I, BLACK)	
17		32	#6 x 5'-3" (LEVEL I, BLACK)	
18		4	#6 x 5'-4" (LEVEL I, BLACK)	
19		4	#6 x 5'-5" (LEVEL I, BLACK)	
20		4	#6 x 5'-7" (LEVEL I, BLACK)	
21		4	#6 x 5'-8" (LEVEL I, BLACK)	
22		4	#6 x 5'-11" (LEVEL I, BLACK)	
23		4	#6 x 6'-2" (LEVEL I, BLACK)	
24		7	#6 x 6'-11" (LEVEL I, BLACK)	
25		10	#6 x 7'-1" (LEVEL I, BLACK)	
26		1	#6 x 7'-2" (LEVEL I, BLACK)	
27		10	#6 x 7'-6" (LEVEL I, BLACK)	
28		2	#6 x 7'-7" (LEVEL I, BLACK)	
29		1	#6 x 8'-0" (LEVEL I, BLACK)	
30		14	#6 x 22'-7" (LEVEL I, BLACK)	
31		8	#6 x 23'-2" (LEVEL I, BLACK)	
32		7	#6 x 23'-3" (LEVEL I, BLACK)	
33		14	#6 x 23'-8" (LEVEL I, BLACK)	
34		8	#6 x 24'-3" (LEVEL I, BLACK)	
35		7	#6 x 24'-4" (LEVEL I, BLACK)	
36		1	2'-0" x 5'-2 1/2" CORR. STL PIPE (GALV)	
37		1	2'-0" x 5'-4" CORR. STL PIPE (GALV)	
38		1	2'-0" x 5'-4 5/8" CORR. STL PIPE (GALV)	
39		1	2'-0" x 5'-6 7/8" CORR. STL PIPE (GALV)	
40		1	2'-0" x 5'-7" CORR. STL PIPE (GALV)	
41		1	2'-0" x 5'-9 1/4" CORR. STL PIPE (GALV)	
42		1	2'-0" x 5'-9 7/8" CORR. STL PIPE (GALV)	
43		1	2'-0" x 5'-11 5/8" CORR. STL PIPE (GALV)	
44		1	2'-0" x 6'-0 3/4" CORR. STL PIPE (GALV)	
45		1	2'-0" x 6'-3 5/8" CORR. STL PIPE (GALV)	
46		1	2'-0" x 6'-6 1/2" CORR. STL PIPE (GALV)	
47		1	2'-0" x 7'-1 3/4" CORR. STL PIPE (GALV)	
48		8	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
49	BU-W1	24	PL. 1" x 6" x 6" W/ (2) 3/4" HOLES (GALV)	FOR ERECTION
50		24	1/2" x 50' POLY-STRAND	FOR ERECTION
51		48	1/2" SINGLE USE STRESSING CHUCK	FOR ERECTION
52		12	COMPRESSIBLE SEALER SELF ADHESIVE	FOR ERECTION

PRECAST ABUTMENTS

Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY: \_\_\_\_\_ OK'D BY: \_\_\_\_\_  
 April 6, 2015  
 RESUBMIT No Approved As Noted  
 BY Rob Young DATE 04/13/2015

**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  APPROVED AS NOTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DID 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 THEIR WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING THEIR WORK IN A SAFE AND SATISFACTORY MANNER.

CLD Consulting Engineers  
 540 Commercial Street  
 Manchester, NH 03101  
 603-888-6223

Job Number: 120121  
 Reviewed by: SRB  
 Date: 04/10/2015

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 26, 2015
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	SCALE: NOTED
	MATERIALS LIST	CHKD: DFTM: JDK JOB NO: 23454-015
		DWG. NO: M3