

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT ✓

NOT REVIEWED

Date: **3/6/2015**

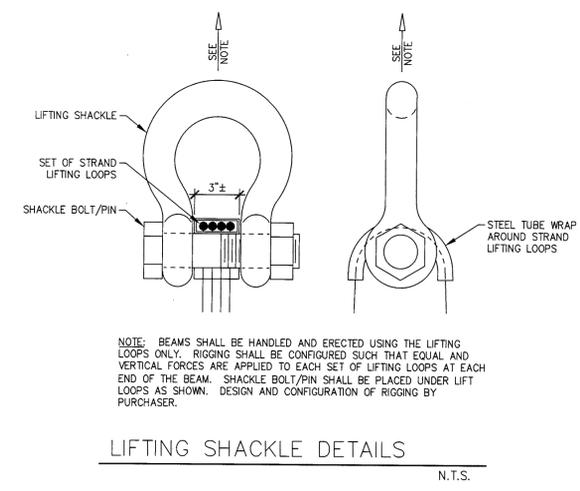
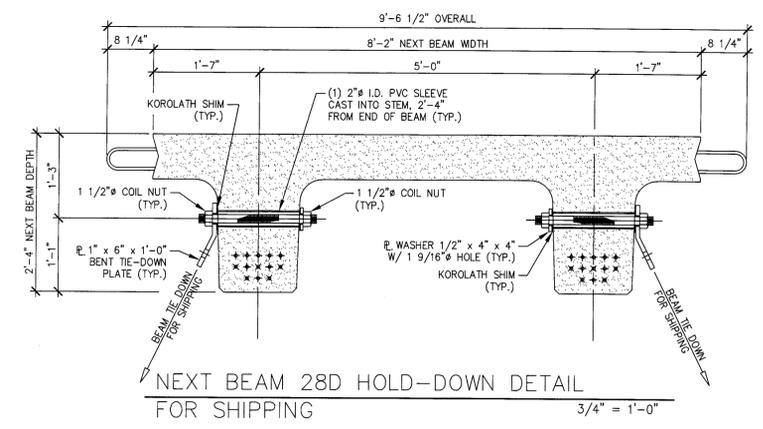
By: *N. T.*

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- ### NEXT BEAM GENERAL NOTES
- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 7,000 PSI.
 - MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 5,500 PSI.
 - REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED).
 - PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60" x 270 KSI 7-WIRE LOW RELAXATION STRANDS.
 - PRESTRESSING STRANDS SHALL EACH BE PULLED TO HAVE A NET TENSION OF 44.0 K AFTER ACCOUNTING FOR CHUCK SLIPPAGE. TENSION SHALL BE VERIFIED BY MEASURING STRAND ELONGATION. (SEE EXAMPLE ELONGATION CALCULATION AND TENSIONING PROCEDURE, THIS SHEET.)
 - ENDS OF PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH END OF NEXT BEAM STEMS (UNLESS NOTED OTHERWISE).
 - ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
 - THE TOP OF BEAMS SHALL RECEIVE A SMOOTH SCREED FINISH (UNLESS NOTED OTHERWISE).
 - SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
 - BEAMS SHALL BE HANDLED AND ERECTED 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 WITHIN 2'-0" OF THE BEAM ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
 - MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.
DESIGN MIX: J.P.C. BRIDGE MIX #425M
 - QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
 - CURING METHOD: AS SOON AS THE TOP OF BEAM IS FINISHED, A COVER OF INSULATED POLY. THE DESIRED CURING TEMPERATURE RANGE SHALL NOT DROP BELOW 70°F. THE TEMPERATURE SHALL BE RECORDED BY AUTOMATIC SENSOR INSTRUMENTS ON GRAPH CHARTS, SPACED NOT MORE THAN 100' APART AND WILL CONTINUE UNTIL RELEASE STRENGTH IS ACHIEVED. EACH CHART SHALL BE MARKED WITH THE CASTING DATED AND LOCATION OF THE RECORDER. IF NECESSARY TO MAINTAIN CASTING BED TEMPERATURE PRIOR TO CONCRETE PLACEMENT OR TO ACCELERATE EARLY AGE STRENGTH GAIN, EXTERNAL RADIANT HEAT MAY BE EMPLOYED VIA HOT WATER DUCTS BENEATH AND WITHIN THE PERIPHERY OF THE CASTING BED. MAXIMUM CURING TEMPERATURE SHALL NOT EXCEED PCI SPECIFIED LIMITS.
 - OWNER SHALL PROVIDE APPROPRIATE WATERPROOFING TO GROUTED AND/OR EPOXIED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUTED AND/OR EPOXIED SHEAR KEYS.

DRAWING INDEX			
SHT. #	DRAWING TITLE	REV. #	REV. DATE
C1	COVER SHEET		
F1	PRECAST NEXT BEAM LAYOUT		
F2	CURTAIN WALL ELEVATIONS		
NB1	PRESTRESSED NEXT BEAM DETAILS		
NB1.1	PRECAST CURTAIN WALL DETAILS		
NB2	PRESTRESSED NEXT BEAM DETAILS "CR-NB1"		
NB2.1	PRESTRESSED NEXT BEAM DETAILS "CR-NB1"		
NB2.2	PRECAST CURTAIN WALL DETAILS "CR-NB1"		
NB3	PRESTRESSED NEXT BEAM DETAILS "CR-NB2"		
NB3.1	PRESTRESSED NEXT BEAM DETAILS "CR-NB2"		
NB3.2	PRECAST CURTAIN WALL DETAILS "CR-NB2"		
NB4	PRESTRESSED NEXT BEAM DETAILS "CR-NB3"		
NB4.1	PRESTRESSED NEXT BEAM DETAILS "CR-NB3"		
NB4.2	PRECAST CURTAIN WALL DETAILS "CR-NB3"		
M1	MATERIALS LIST FOR NEXT BEAMS		



EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING

(NOT TO BE USED FOR CONSTRUCTION)

SIZE & GRADE: 0.60" x 270 KSI
AREA: 0.217 IN²
TENSION: 44,000 LB. EACH STRAND
GRIP-TO-GRIP: 252'-0" = 252.00'
Es = 28,500,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

EXAMPLE:

$$\Delta = \frac{PL}{AE} = \frac{(44,000 - 3,000) \times 252.00 \times 12}{0.217 \times 28,500,000} = 20.047"$$
 THEREFORE: (TOLERANCES ± 5%)
 Δ UPPER LIMIT = 1.05 x 20.047" = 21.05" = 21"
 Δ LOWER LIMIT = 0.95 x 20.047" = 19.04" = 19"

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

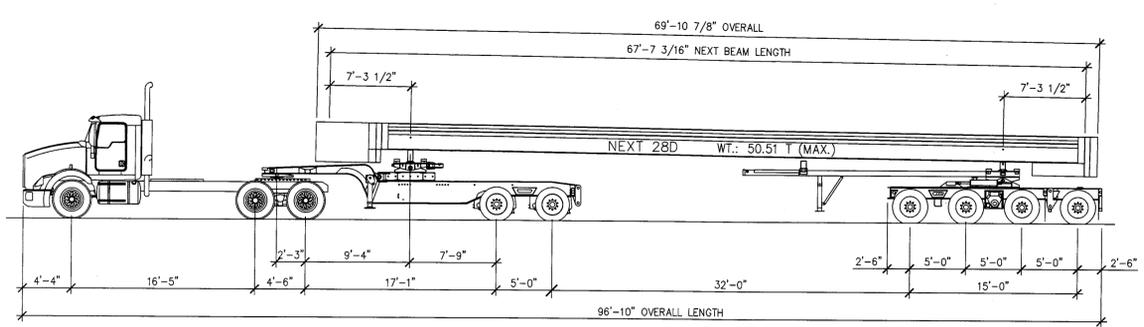
$$\Delta P = \frac{0.5 \times 41,000}{20.047} = 1,023 \text{ LBS.}$$

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 5.3.11.3.

DESIGN LIVE LOAD: HL-93

- ### 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.



APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 OISE ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	AUSTIN CONSTRUCTION, INC. CONTRACTOR CONCORD, VERMONT	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ORANGE	DATE: FEB. 11, 2015 SCALE: NOTED
TOWN OF CORINTH CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29)	CHKD: RM DFTM: PSS JOB NO: 23448-014	
COVER SHEET		DWG. NO: C1

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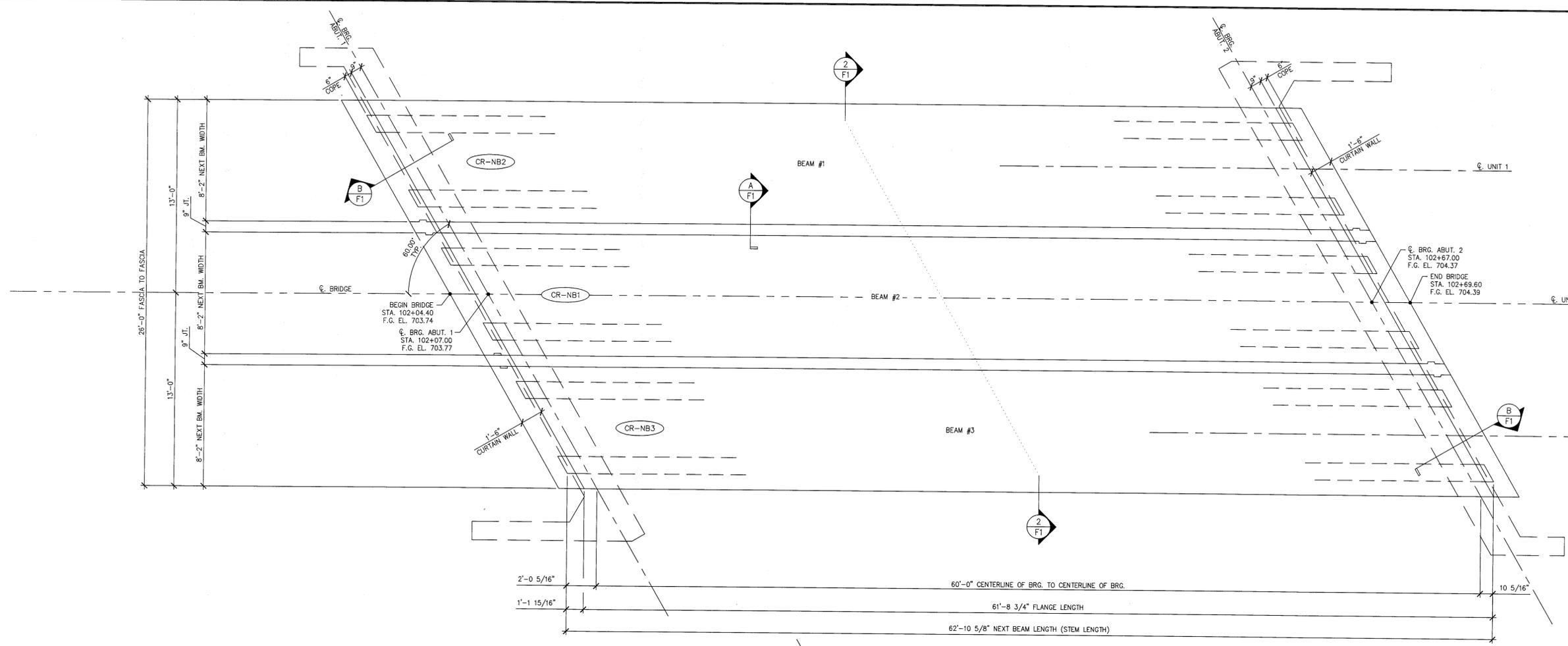
REVISE AND RESUBMIT

NOT REVIEWED

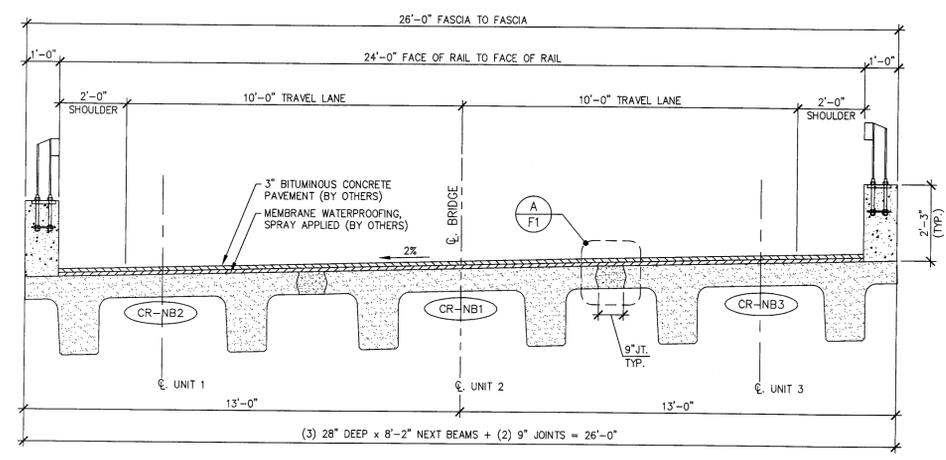
Date: 3/6/2015

By: *[Signature]*

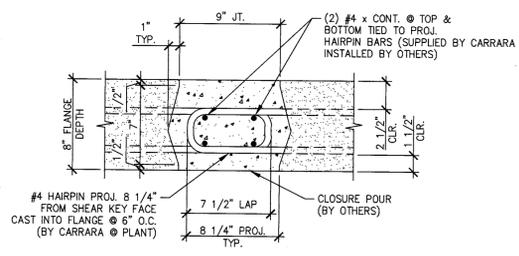
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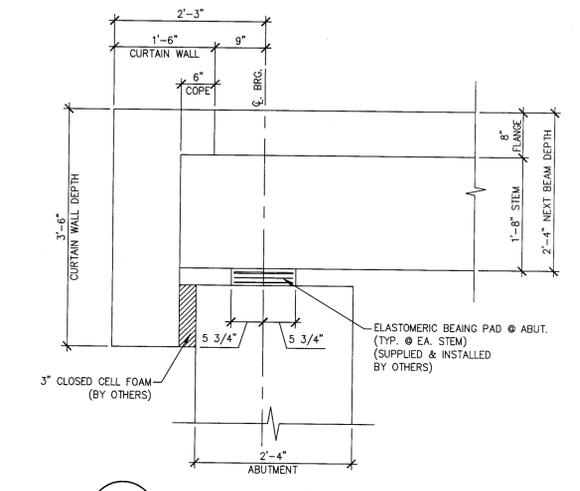
1 NEXT BEAM LAYOUT
1/4" = 1'-0"



2 TRANSVERSE NEXT BEAM SECTION
3/8" = 1'-0"



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



B BEARING DETAIL
3/4" = 1'-0"

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	PRESTRESSED NEXT BEAM LAYOUT		JOB NO.: 23448-014	DWG. NO.: F1

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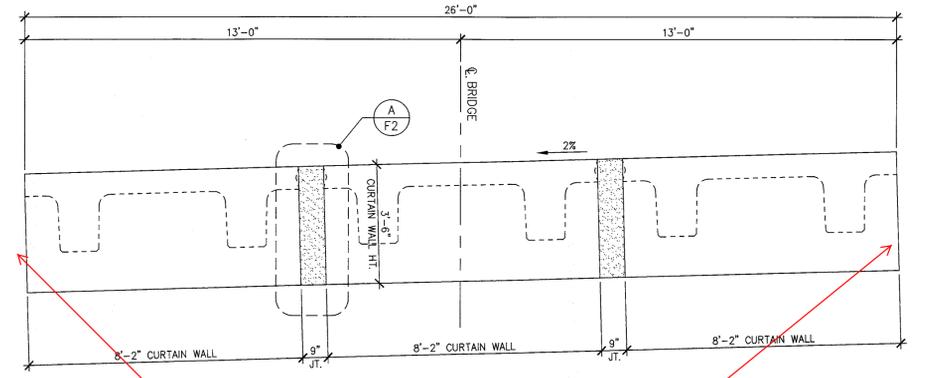
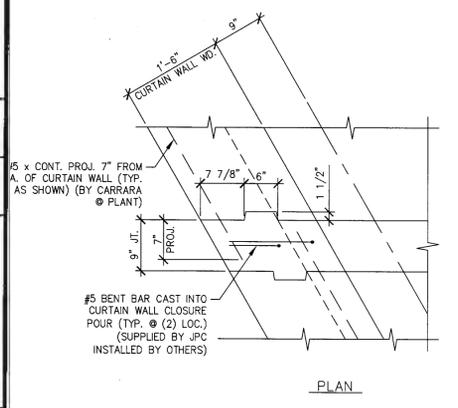
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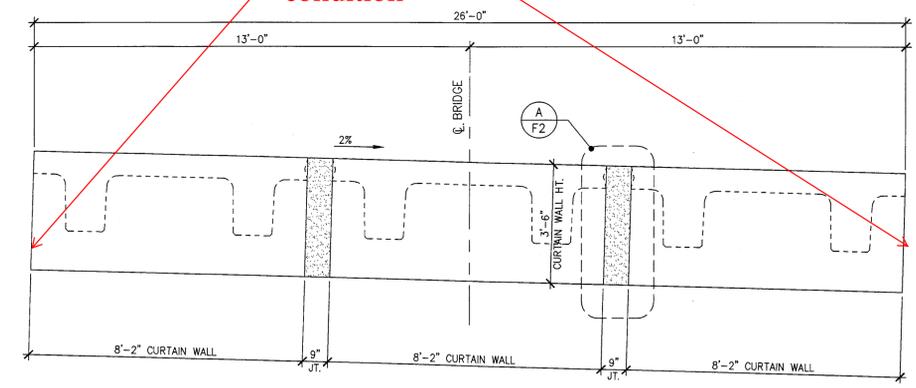
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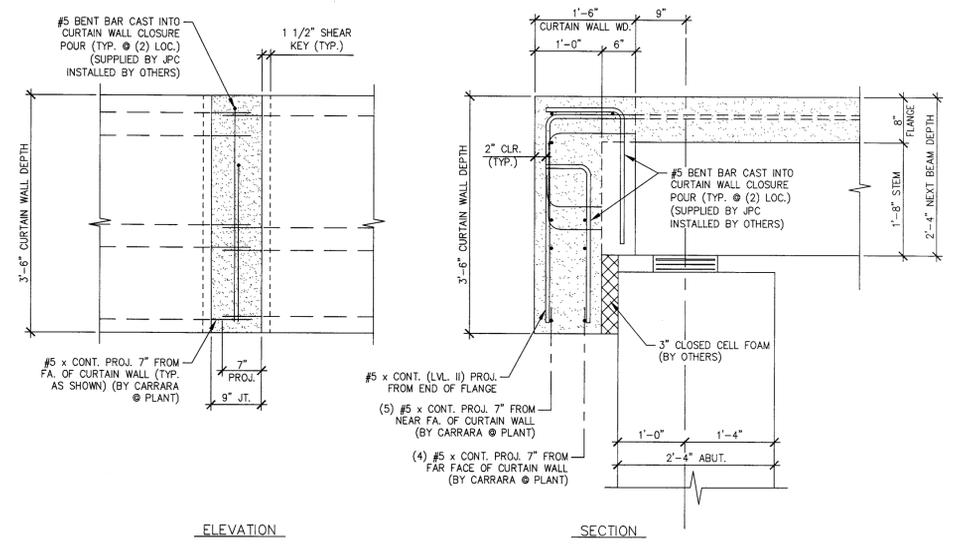


1 CURTAIN WALL ELEVATION - ABUTMENT #1
F2 (MARK END) 3/8" = 1'-0"

Outside edges must be plumb in final condition



2 CURTAIN WALL ELEVATION - ABUTMENT #2
F2 (NON-MARK END) 3/8" = 1'-0"



A CURTAIN WALL CLOSURE POUR DETAILS
F2 3/4" = 1'-0"

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	CURTAIN WALL ELEVATIONS		JOB NO: 23448-014	DWG. NO: F2



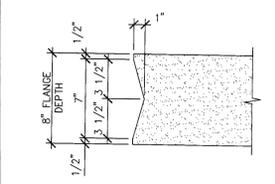
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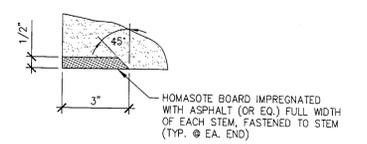
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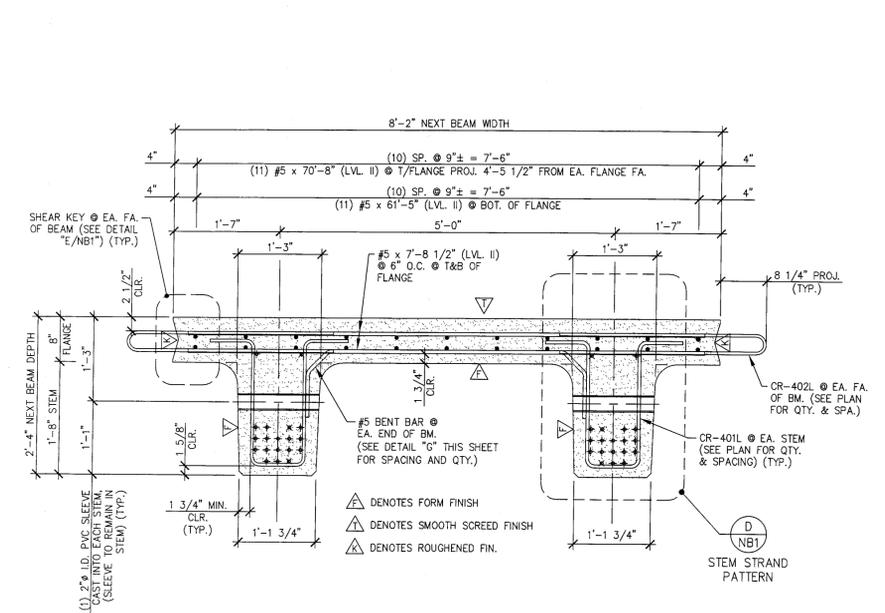
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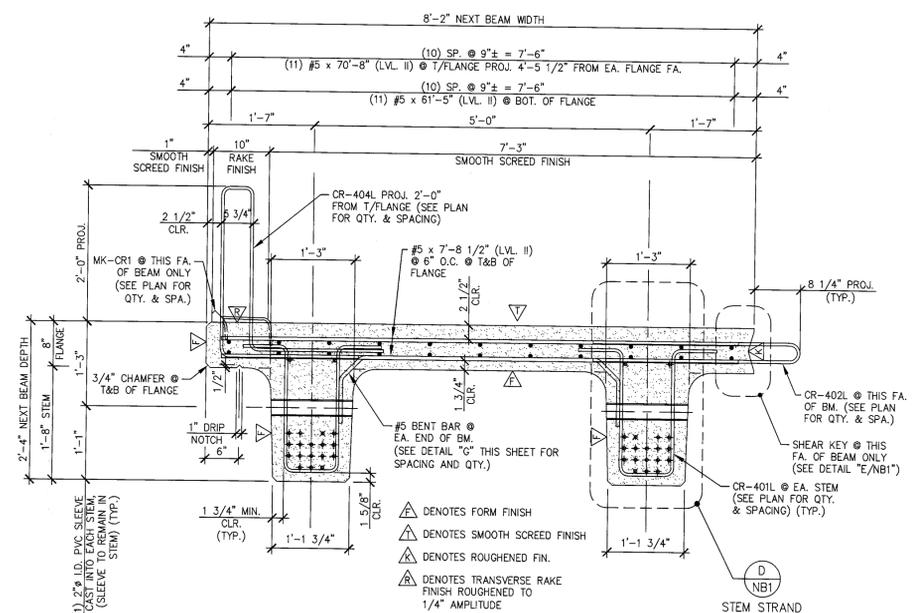
E SHEAR KEY DETAIL
 NB1 1 1/2" = 1'-0"



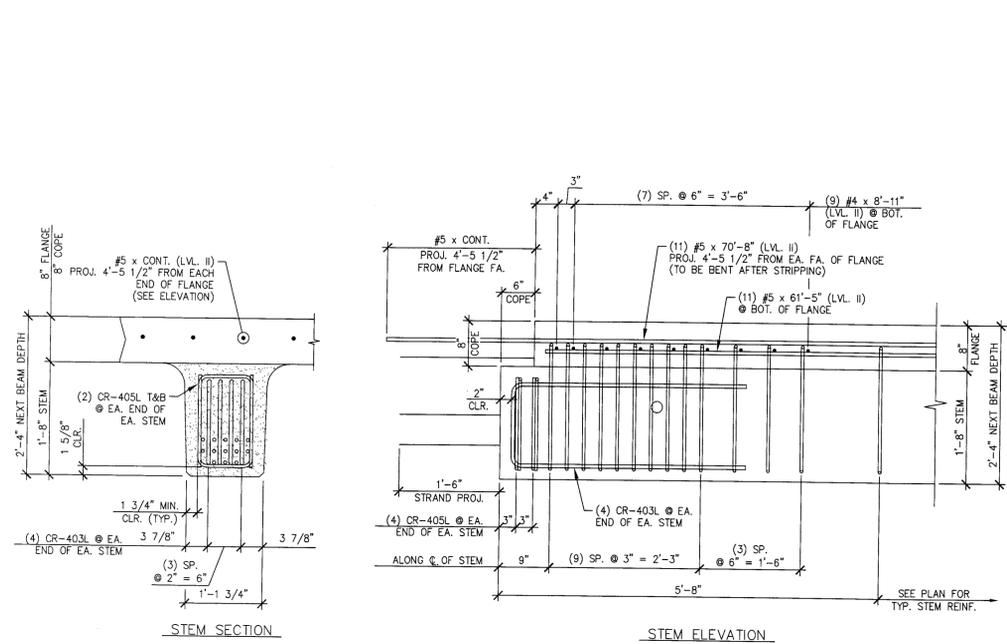
F HOMASOTE DETAIL
 NB1 3" = 1'-0"



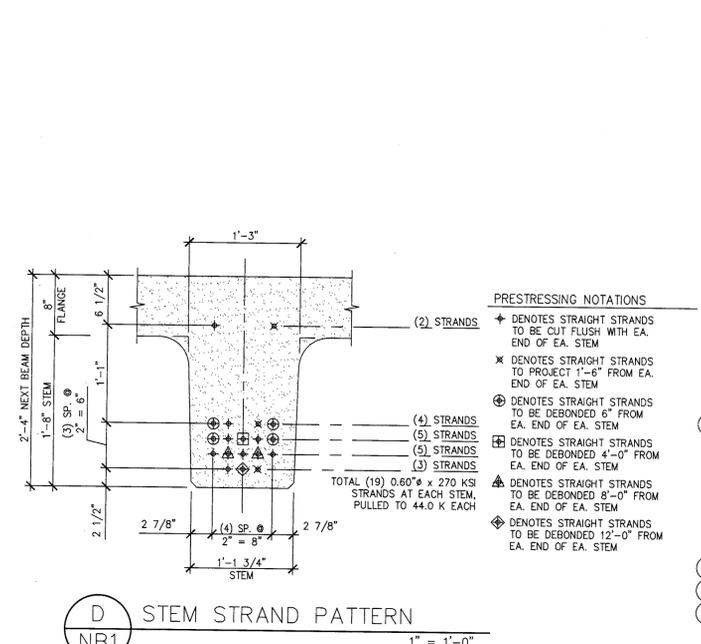
A DIMENSIONAL & REINFORCING SECTION
 NB1 3/4" = 1'-0"



B DIMENSIONAL & REINFORCING SECTION
 NB1 3/4" = 1'-0"



C END BLOCK STEM REINFORCING DETAILS
 NB1 SEE CURTAIN WALL DETAILS FOR PROJECTING BAR BENDING & PROJECTING STRAND BENDING ("A/NB1.1"). 3/4" = 1'-0"



D STEM STRAND PATTERN
 NB1 1" = 1'-0"

PRESTRESSING NOTATIONS

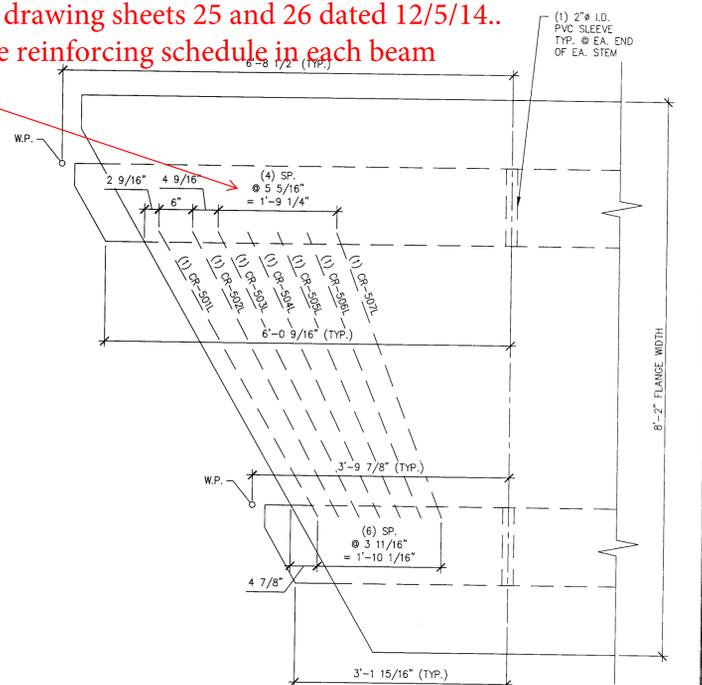
- ✦ DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
- ✖ DENOTES STRAIGHT STRANDS TO PROJECT 1'-6" FROM EA. END OF EA. STEM
- ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
- ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 4'-0" FROM EA. END OF EA. STEM
- ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 8'-0" FROM EA. END OF EA. STEM
- ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 12'-0" FROM EA. END OF EA. STEM

TOTAL (19) 0.60" x 270 KSI STRANDS AT EACH STEM, PULLED TO 44.0 K EACH

DETENSING SCHEDULE

15	5	7	19	20	8	6	16		
17	9	13	11	21	22	12	14	10	18
29	23	27	25	31	32	26	28	24	30
33	37	35			36	38	34		

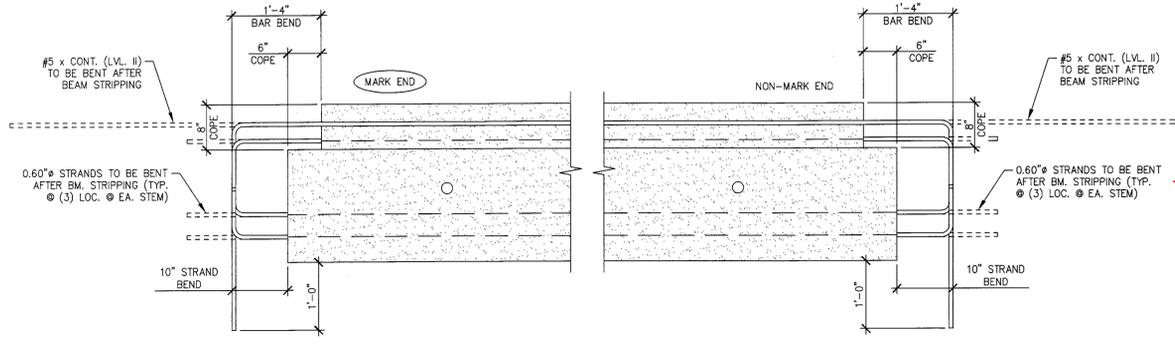
N.T.S.



G ADDITIONAL TRANSVERSE REINFORCING (@ BOTTOM OF FLANGE) & LOCATION OF PVC SLEEVES (@ STEM)
 NB1 3/4" = 1'-0"

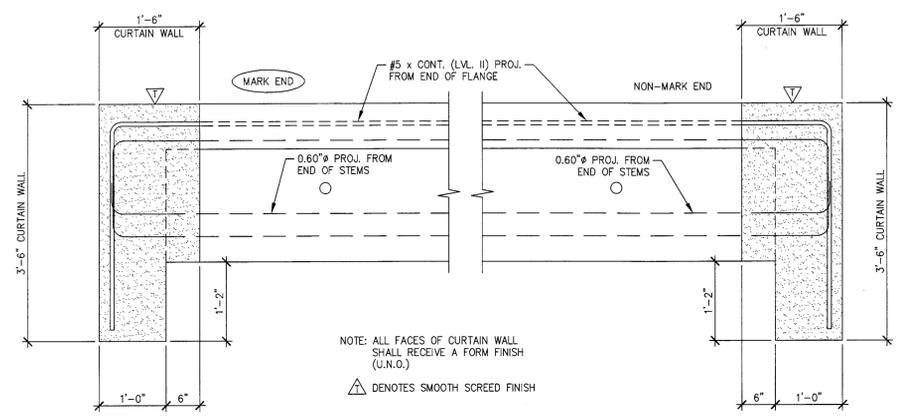
Need 20 spaces @ 6" for additional transverse reinf. at each beam end per revised drawing sheets 25 and 26 dated 12/5/14. This will change reinforcing schedule in each beam

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DWG. NO: NB1		

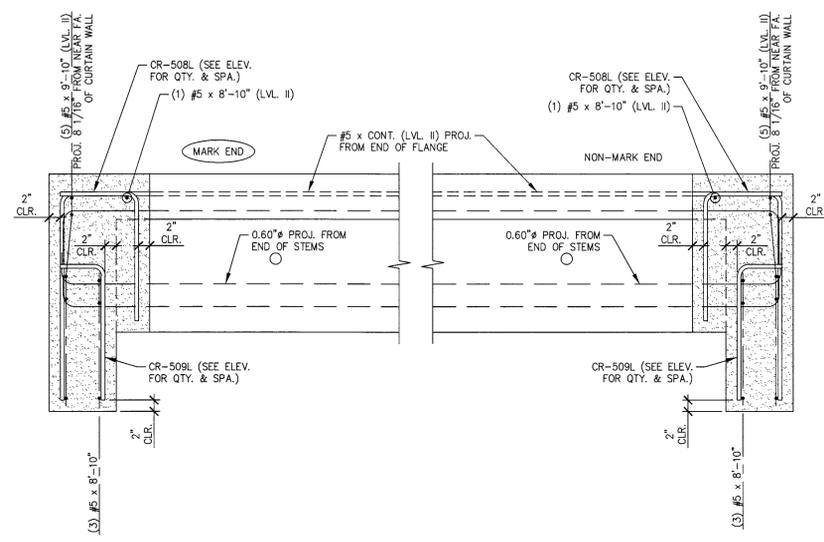


A PROJECTING STRAND & PROJECTING BAR BEND DETAIL
NB1.1 3/4" = 1'-0"

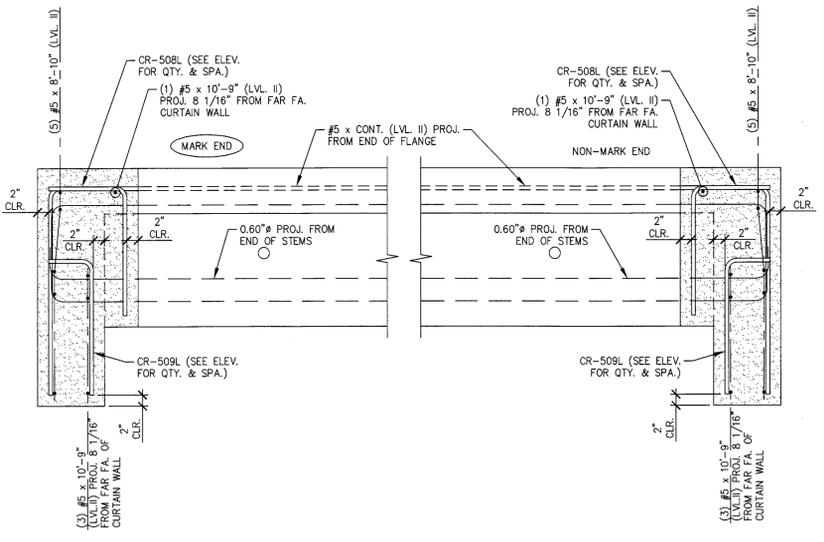
How will strands be bent? Pipe section s left in place will not be acceptable



B CURTAIN WALL DIMENSIONAL SECTIONS
NB1.1 3/4" = 1'-0"



D CURTAIN WALL REINFORCING SECTIONS
NB1.1 SEE CURTAIN WALL ELEVATIONS FOR LONGITUDINAL BAR LENGTH CHANGES 3/4" = 1'-0"

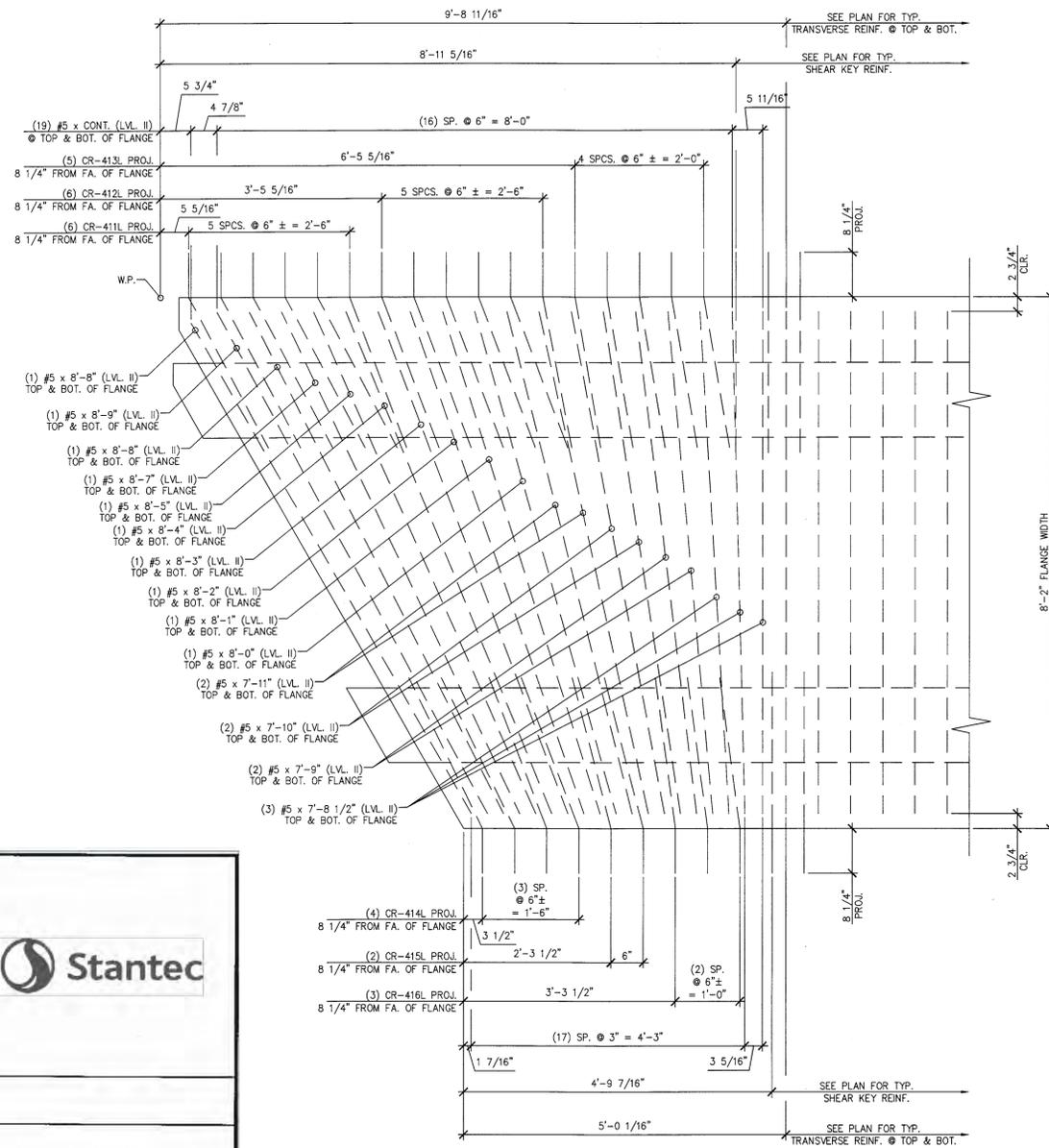


C CURTAIN WALL REINFORCING SECTIONS
NB1.1 SEE CURTAIN WALL ELEVATIONS FOR LONGITUDINAL BAR LENGTH CHANGES 3/4" = 1'-0"

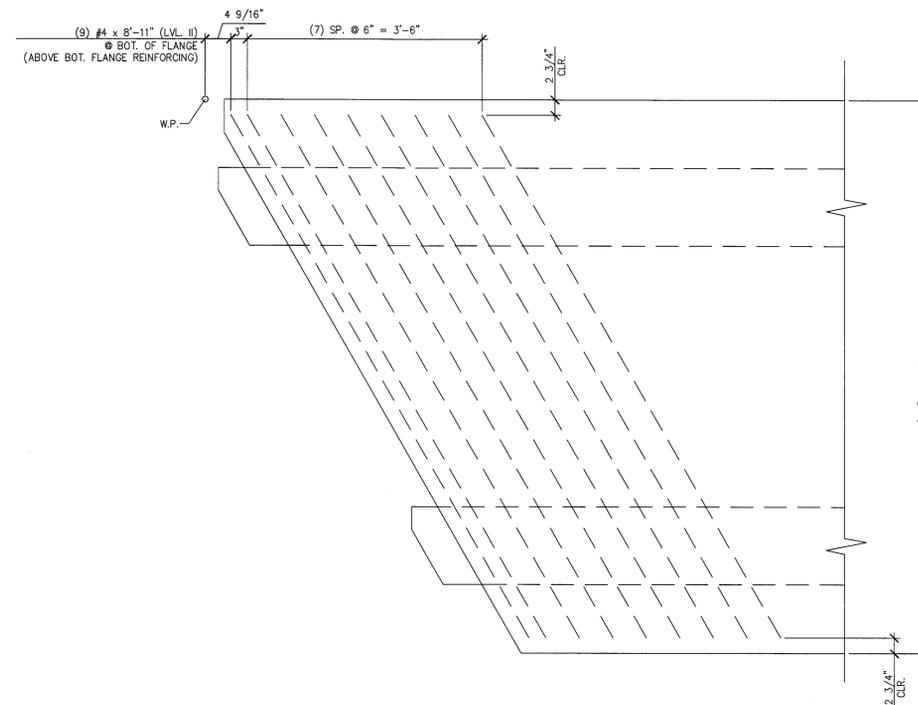
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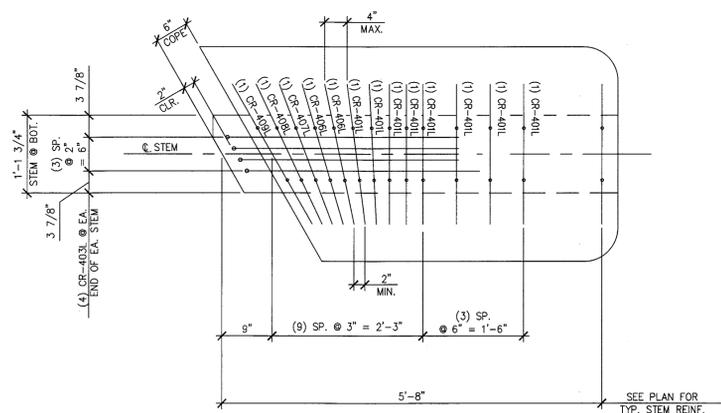
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	PRECAST CURTAIN WALL DETAILS	DWG. NO: NB1.1



A BEAM END TRANSVERSE REINFORCING
NB2.1 3/4" = 1'-0"



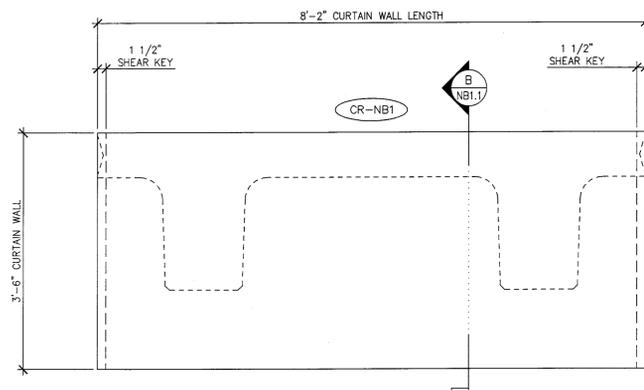
B ADDITIONAL TRANSVERSE REINFORCING
NB2.1 AT BOTTOM OF FLANGE 3/4" = 1'-0"



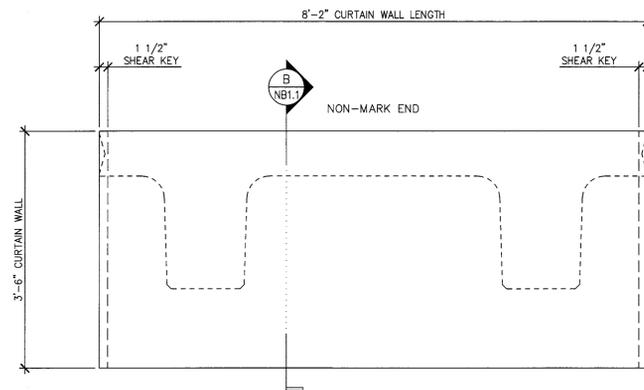
C BEAM END TRANSVERSE REINFORCING
NB2.1 3/4" = 1'-0"

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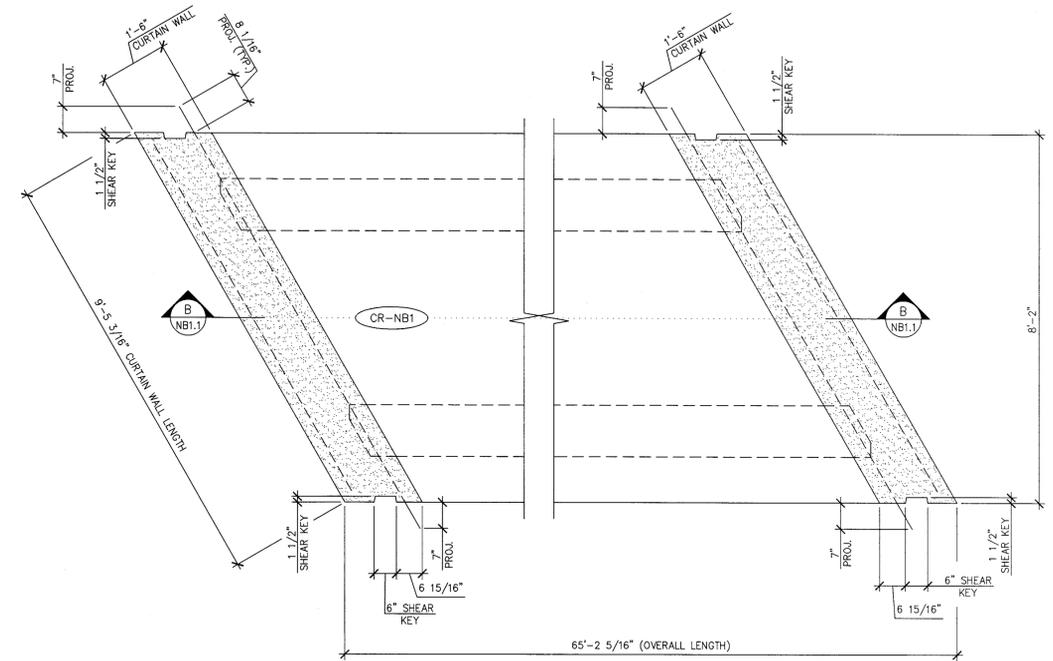
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	PRESTRESSED NEXT BEAM DETAILS		DWG. NO: NB2.1	



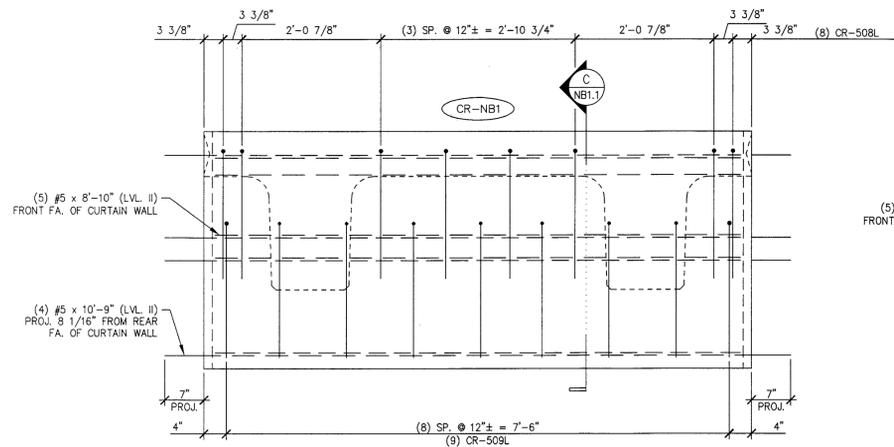
1 CURTAIN WALL DIMENSIONAL ELEVATION
 NB2.2 VOL.: 1.53 cy WT.: 3.10 T 3/4" = 1'-0"



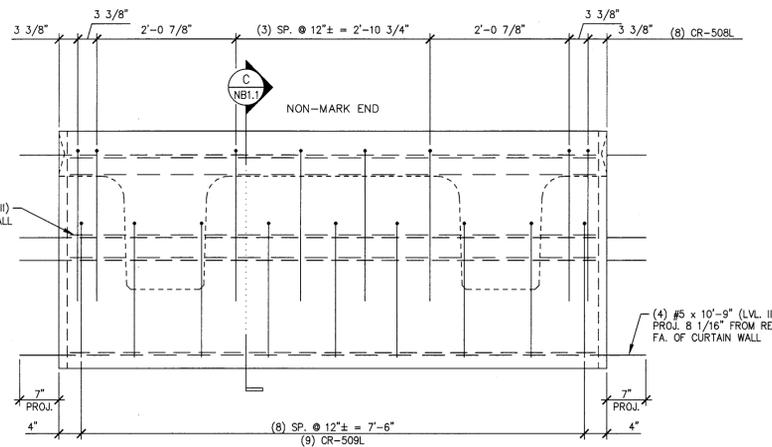
3 CURTAIN WALL DIMENSIONAL ELEVATION
 NB2.2 VOL.: 1.53 cy WT.: 3.10 T 3/4" = 1'-0"



5 CURTAIN WALL DIMENSIONAL PLAN
 NB2.2 1/2" = 1'-0"



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



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

44.20 T = NEXT BEAM
 3.10 T = CURTAIN WALL (MARK END)
 3.10 T = CURTAIN WALL (NON-MARK END)
 50.40 T = TOTAL BEAM WT.

MARK: CR-NB1		QTY.: 1		
MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	CR-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
2	CR-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	9	9
3				
4		#5 x 10'-9" (LVL. II, DUAL COATED)	4	4
5		#5 x 8'-10" (LVL. II, DUAL COATED)	5	5
6				
7				
8				
9				
10				

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 3/6/2015

By: *[Signature]*

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APPROVAL STAMP:

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

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ORANGE DATE: FEB. 11, 2015
 SCALE: NOTED

TOWN OF CORINTH CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD CHKD: RM DFTM: PSS
 BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29) JOB NO: 23448-014

PRECAST CURTAIN WALL DETAILS DWG. NO: NB2.2

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements



APPROVED AS NOTED
 REVISE AND RESUBMIT
 NOT REVIEWED

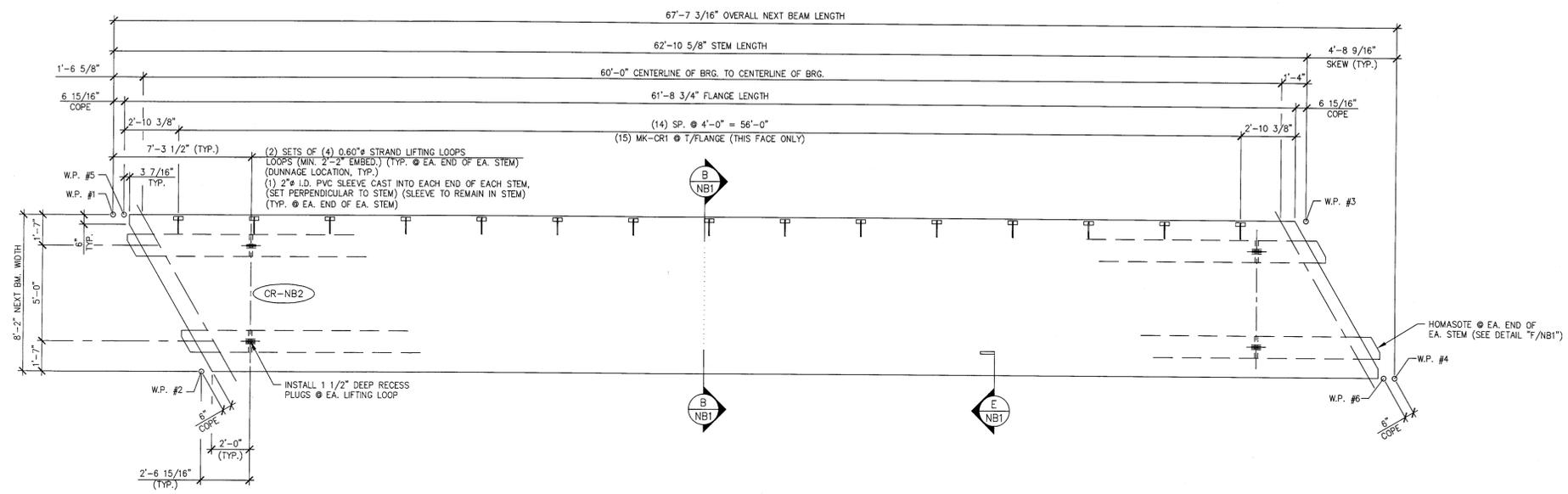
Date: 3/6/2015

By: *[Signature]*

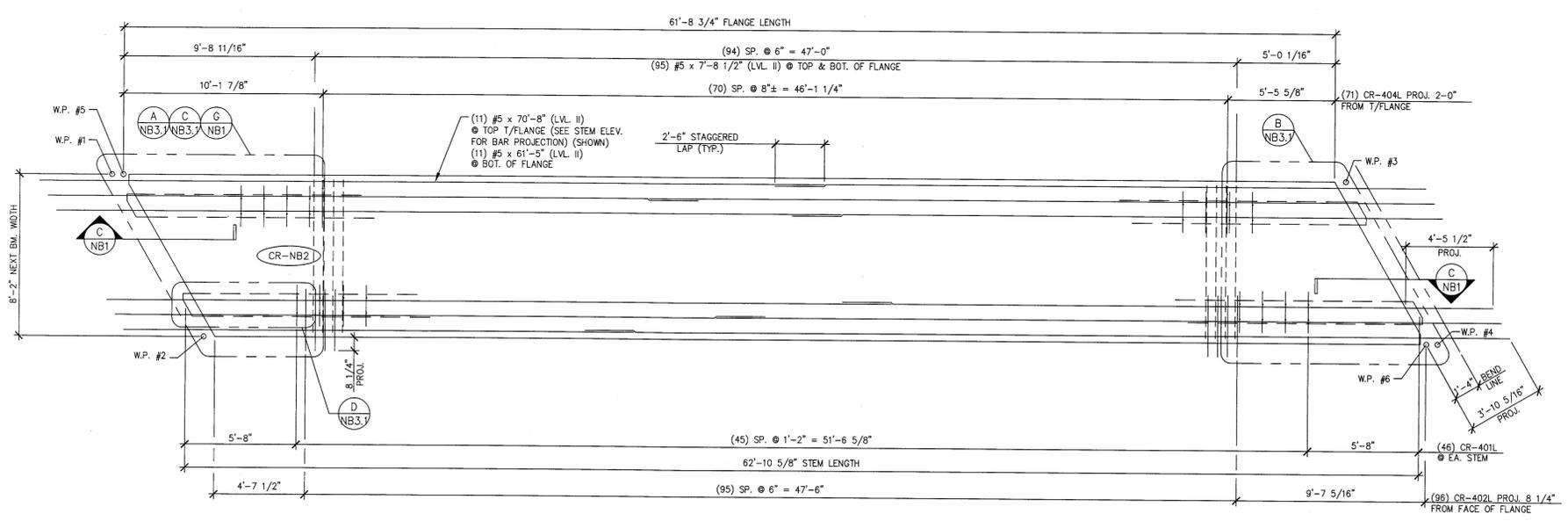
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

MARK: CR-NB2 QTY.: 1 WT.: 44.27 T VOL.: 21.86 cy

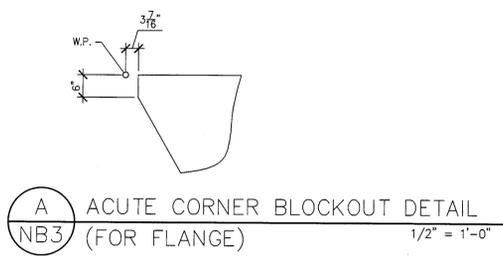
MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	CR-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	124
2	CR-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	96
3	CR-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
4	CR-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	81
5	CR-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
6	CR-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
7	CR-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	4
8	CR-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	4
9	CR-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	4
10	CR-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	12
11	CR-414L	#4 BENT BAR (LEVEL II, DUAL COATED)	4
12	CR-415L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
13	CR-416L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
14	CR-417L	#4 BENT BAR (LEVEL II, DUAL COATED)	6
15	CR-418L	#4 BENT BAR (LEVEL II, DUAL COATED)	6
16	CR-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
17	CR-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
18	CR-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
19	CR-504L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
20	CR-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
21	CR-506L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
22	CR-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
23			
24		#4 x 8'-11" (LEVEL II, DUAL COATED)	18
25		#5 x 7'-8 1/2" (LEVEL II, DUAL COATED)	202
26		#5 x 7'-9" (LEVEL II, DUAL COATED)	8
27		#5 x 7'-10" (LEVEL II, DUAL COATED)	8
28		#5 x 7'-11" (LEVEL II, DUAL COATED)	8
29		#5 x 8'-0" (LEVEL II, DUAL COATED)	4
30		#5 x 8'-1" (LEVEL II, DUAL COATED)	4
31		#5 x 8'-2" (LEVEL II, DUAL COATED)	4
32		#5 x 8'-3" (LEVEL II, DUAL COATED)	4
33		#5 x 8'-4" (LEVEL II, DUAL COATED)	4
34		#5 x 8'-5" (LEVEL II, DUAL COATED)	4
35		#5 x 8'-7" (LEVEL II, DUAL COATED)	4
36		#5 x 8'-8" (LEVEL II, DUAL COATED)	8
37		#5 x 8'-9" (LEVEL II, DUAL COATED)	4
38		#5 x 7'-8" (W/ (1) 2'-6" STAGGERED LAP) (40' + 33'-2") (LVL II, DUAL COATED)	11
39		#5 x 6'-5" (W/ (1) 2'-6" STAGGERED LAP) (40' + 23'-11") (LVL II, DUAL COATED)	11
40			
41	MK-CR1	MODIFIED UNIVERSAL 4APR DECK FORM HANGER 45" (GALV.) (20" LG.)	15
42		2" I.D. PVC SLEEVE	4
43		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4



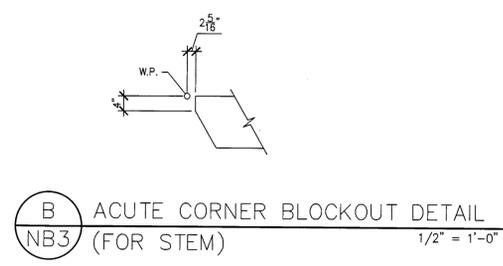
1 DIMENSIONAL PLAN VIEW IN FORM
 NB3 1/4" = 1'-0"



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



A ACUTE CORNER BLOCKOUT DETAIL (FOR FLANGE)
 NB3 1/2" = 1'-0"



B ACUTE CORNER BLOCKOUT DETAIL (FOR STEM)
 NB3 1/2" = 1'-0"

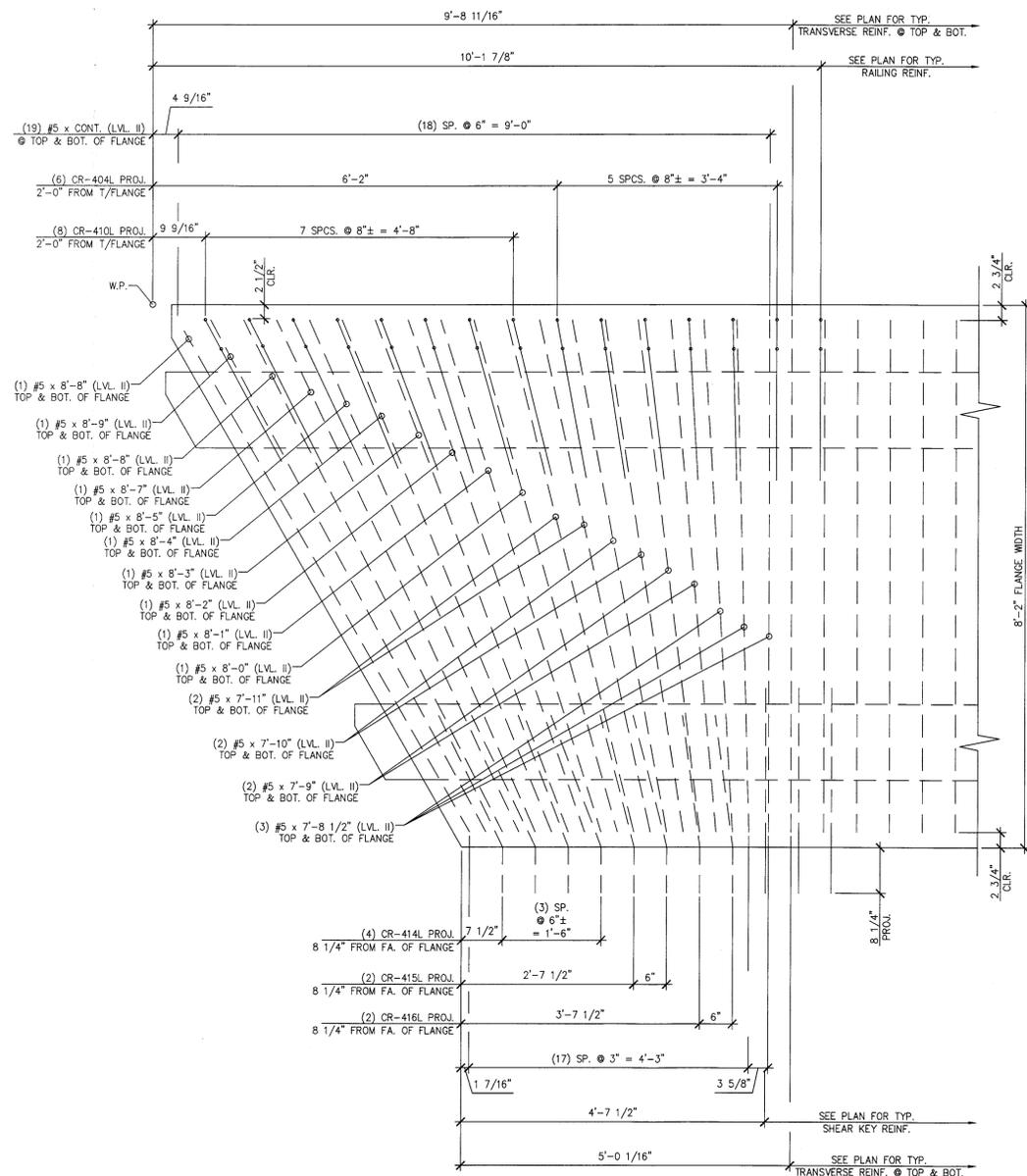
APPROVAL STAMP:

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

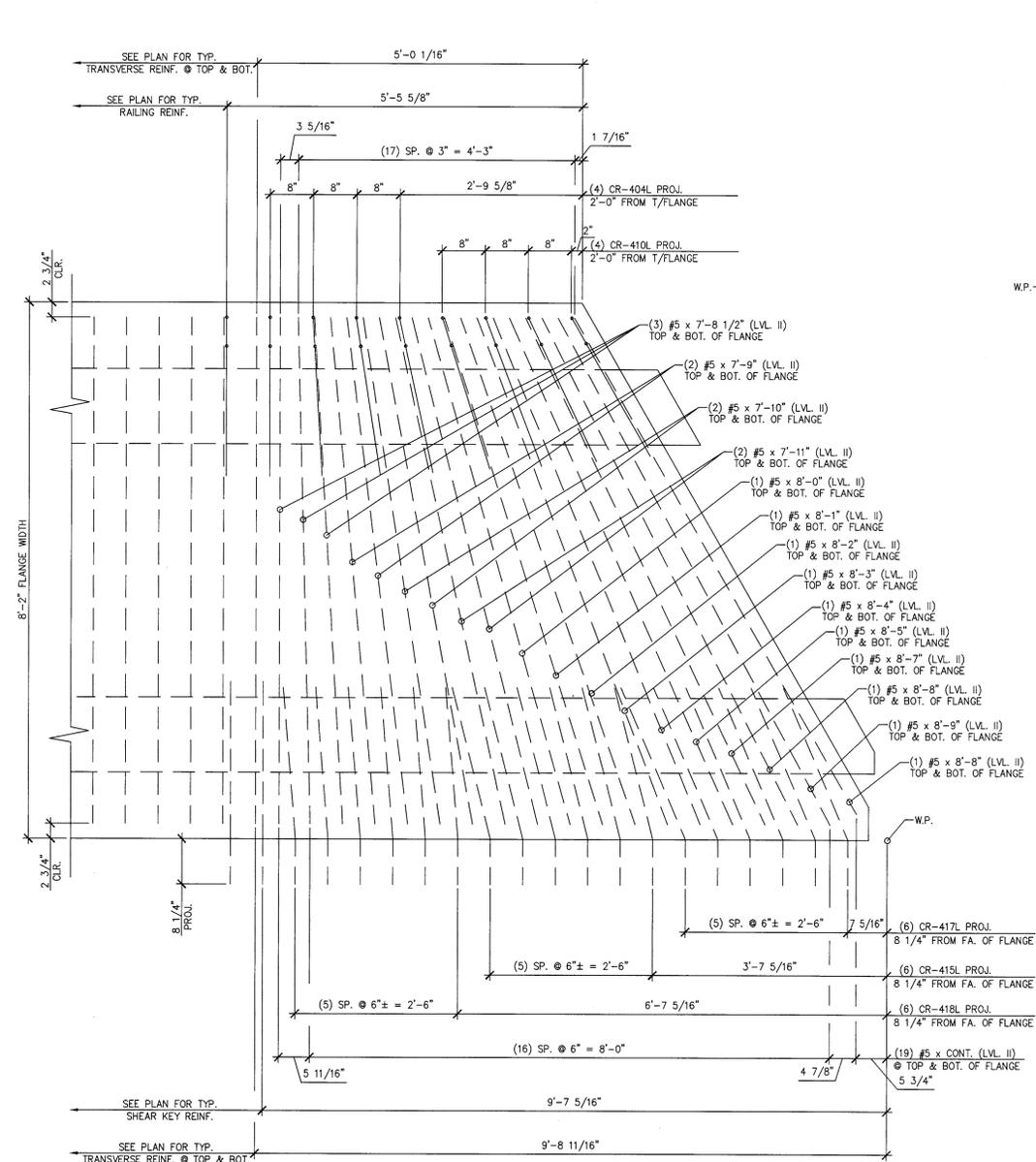
STATE OF VERMONT AGENCY OF TRANSPORTATION DATE: FEB. 11, 2015
 COUNTY OF ORANGE SCALE: NOTED

TOWN OF CORINTH CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD
 BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29) CHKD: RM DFTM: PSS
 JOB NO: 23448-014

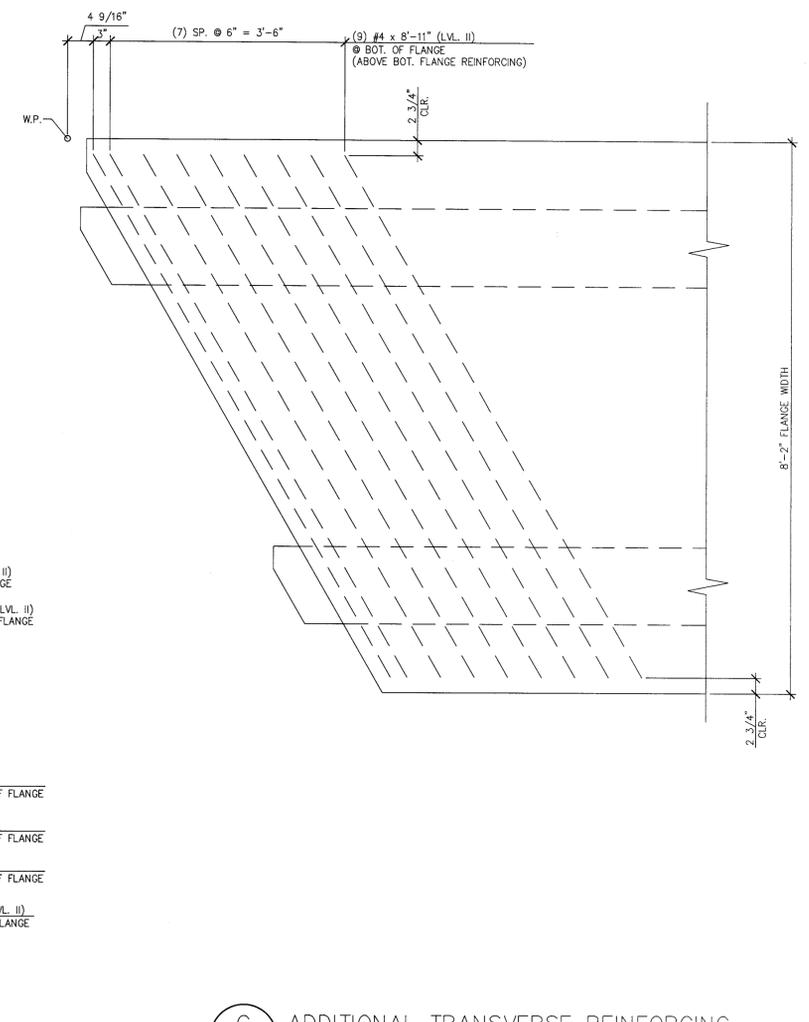
PRESTRESSED NEXT BEAM DETAILS DWG. NO: NB3



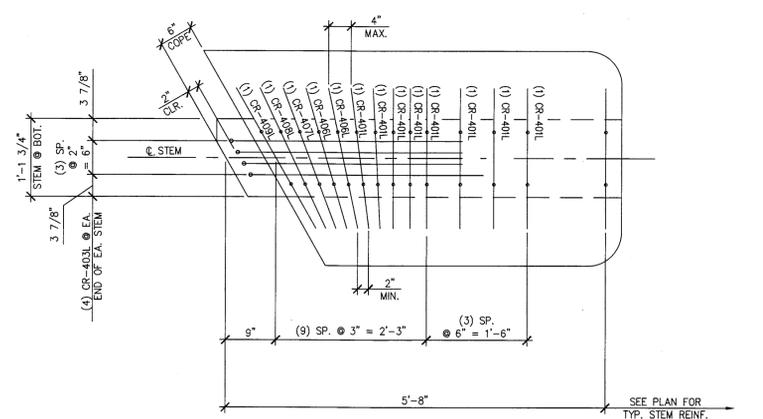
A BEAM END TRANSVERSE REINFORCING
NB3.1 3/4" = 1'-0"



B BEAM END TRANSVERSE REINFORCING
NB3.1 3/4" = 1'-0"



C ADDITIONAL TRANSVERSE REINFORCING
NB3.1 AT BOTTOM OF FLANGE 3/4" = 1'-0"



D BEAM END TRANSVERSE REINFORCING
NB3.1 3/4" = 1'-0"

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APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 3/6/2015

By: *[Signature]*

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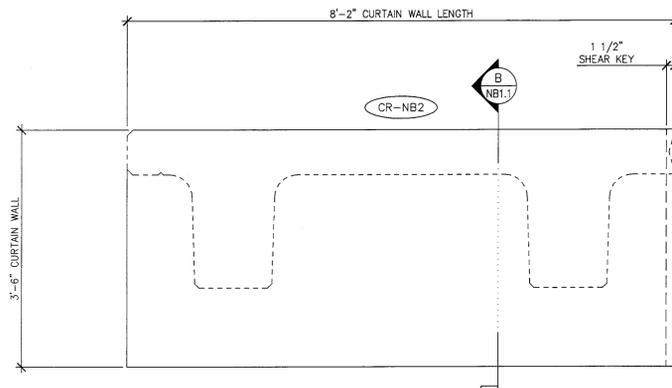
L STAMP:

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

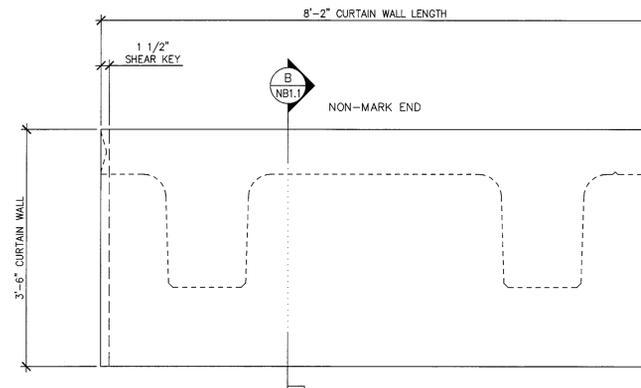
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ORANGE DATE: FEB. 11, 2015
SCALE: NOTED

TOWN OF CORINTH CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD CHKD: RM DFTM: PSS
BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29) JOB NO: 23448-014

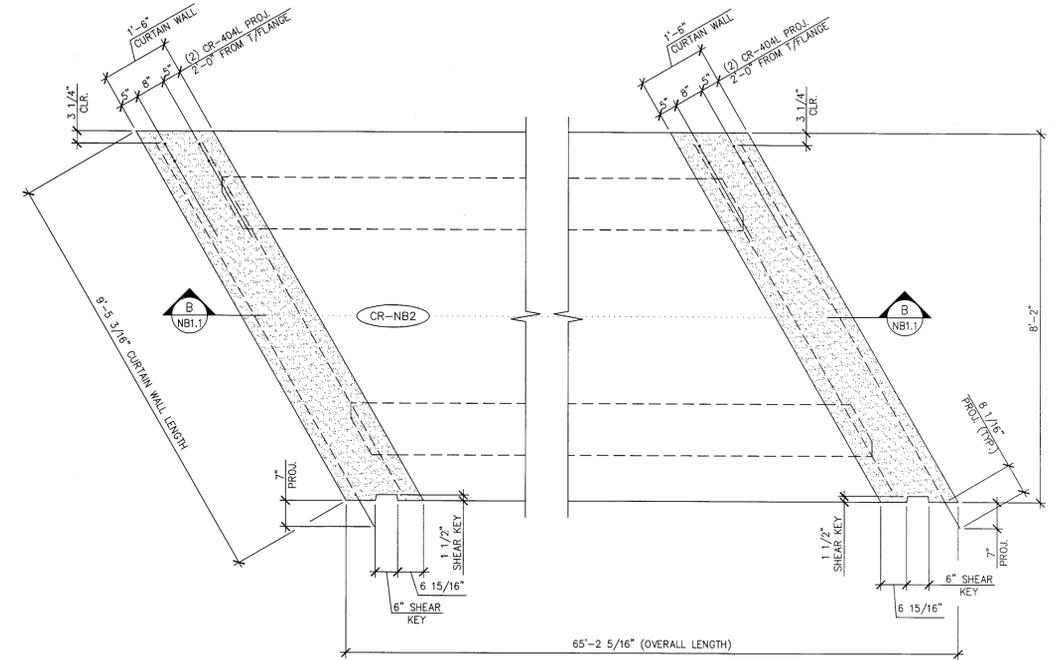
PRESTRESSED NEXT BEAM DETAILS DWG. NO: NB3.1



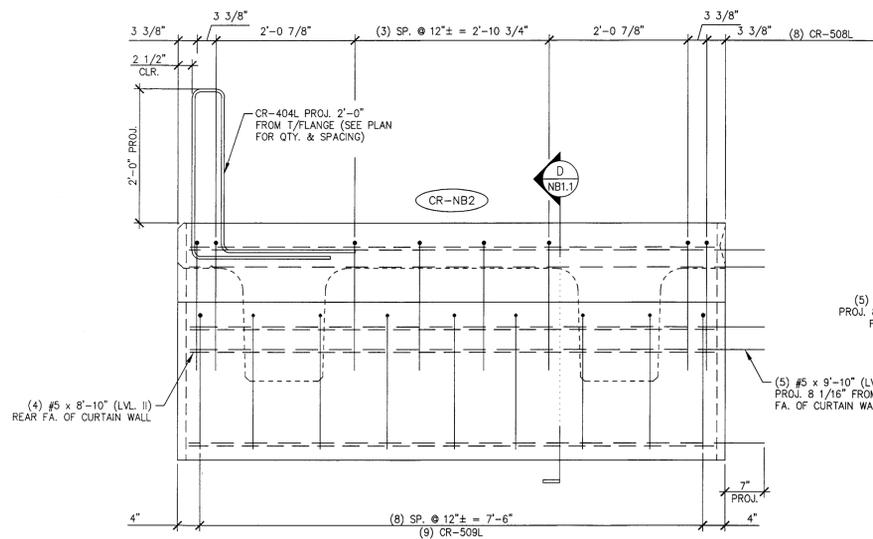
1 CURTAIN WALL DIMENSIONAL ELEVATION
 NB3.2 VOL.: 1.54 cy WT.: 3.12 T 3/4" = 1'-0"



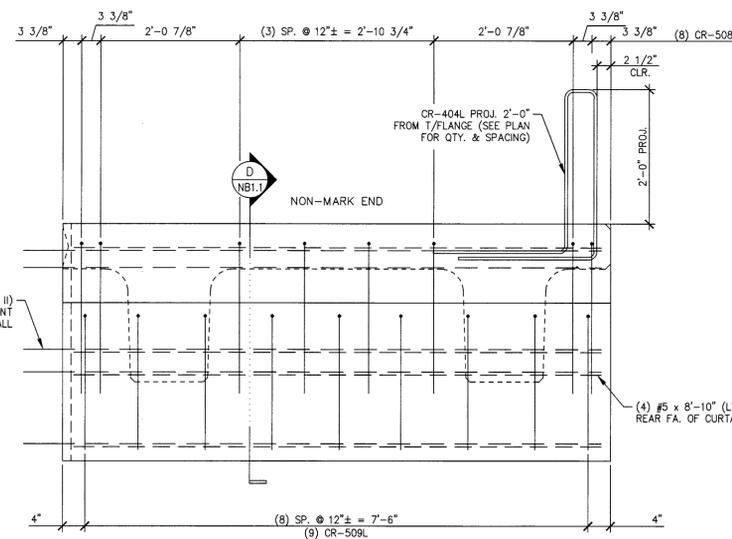
3 CURTAIN WALL DIMENSIONAL ELEVATION
 NB3.2 VOL.: 1.54 cy WT.: 3.12 T 3/4" = 1'-0"



5 CURTAIN WALL DIMENSIONAL PLAN
 NB3.2 1/2" = 1'-0"



2 CURTAIN WALL REINFORCING ELEVATION
 NB3.2 3/4" = 1'-0"



4 CURTAIN WALL REINFORCING ELEVATION
 NB3.2 3/4" = 1'-0"

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APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 3/6/2015

By: *[Signature]*

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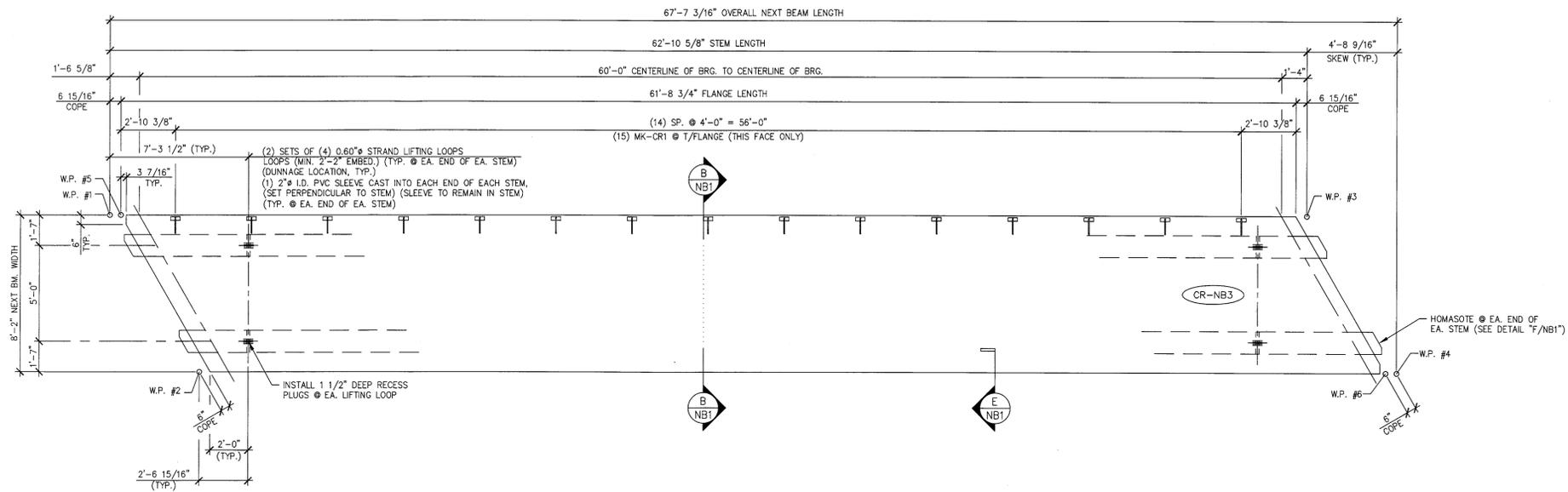
Stantec

44.27 T = NEXT BEAM
 3.12 T = CURTAIN WALL (MARK END)
 3.12 T = CURTAIN WALL (NON-MARK END)
 50.51 T = TOTAL BEAM WT.

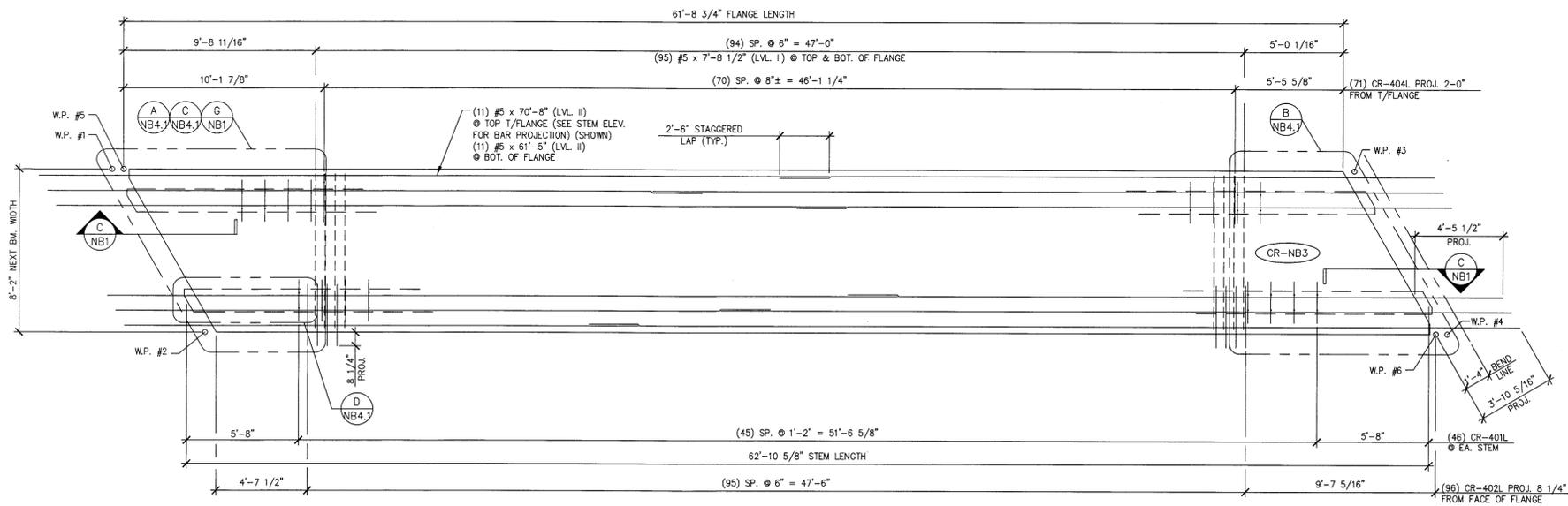
MARK: CR-NB2 QTY.: 1

MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	CR-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
2	CR-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
3	CR-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	9	9
4				
5		#5 x 9'-10" (LVL. II, DUAL COATED)	5	5
6		#5 x 8'-10" (LVL. II, DUAL COATED)	4	4
7				
8				
9				
10				

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	AUSTIN CONSTRUCTION, INC. CONTRACTOR CONCORD, VERMONT
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ORANGE		DATE: FEB. 11. 2015 SCALE: NOTED
TOWN OF CORINTH CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29)		CHKD: RM DFTM: PSS JOB NO: 23448-014
PRECAST CURTAIN WALL DETAILS		DWG. NO: NB3.2



1 DIMENSIONAL PLAN VIEW IN FORM
NB4 1/4" = 1'-0"



2 REINFORCING PLAN VIEW IN FORM
NB4 1/4" = 1'-0"

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APPROVED AS NOTED

REVISE AND RESUBMIT ✓

NOT REVIEWED

Date: 3/6/2015

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MARK: CR-NB2		QTY.: 1	WT.: 44.27 T	VOL.: 21.86 cy
MATERIAL LIST / NEXT BEAM				
ITEM	MARK	DESCRIPTION	QTY.	
1	CR-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	124	
2	CR-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	96	
3	CR-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	16	
4	CR-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	81	
5	CR-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	16	
6	CR-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	8	
7	CR-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	4	
8	CR-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	4	
9	CR-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	4	
10	CR-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	12	
11	CR-414L	#4 BENT BAR (LEVEL II, DUAL COATED)	4	
12	CR-415L	#4 BENT BAR (LEVEL II, DUAL COATED)	8	
13	CR-416L	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
14	CR-417L	#4 BENT BAR (LEVEL II, DUAL COATED)	6	
15	CR-418L	#4 BENT BAR (LEVEL II, DUAL COATED)	6	
16	CR-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
17	CR-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
18	CR-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
19	CR-504L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
20	CR-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
21	CR-506L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
22	CR-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
23				
24		#4 x 8'-11" (LEVEL II, DUAL COATED)	18	
25		#5 x 7'-8 1/2" (LEVEL II, DUAL COATED)	202	
26		#5 x 7'-9" (LEVEL II, DUAL COATED)	8	
27		#5 x 7'-10" (LEVEL II, DUAL COATED)	8	
28		#5 x 7'-11" (LEVEL II, DUAL COATED)	8	
29		#5 x 8'-0" (LEVEL II, DUAL COATED)	4	
30		#5 x 8'-1" (LEVEL II, DUAL COATED)	4	
31		#5 x 8'-2" (LEVEL II, DUAL COATED)	4	
32		#5 x 8'-3" (LEVEL II, DUAL COATED)	4	
33		#5 x 8'-4" (LEVEL II, DUAL COATED)	4	
34		#5 x 8'-5" (LEVEL II, DUAL COATED)	4	
35		#5 x 8'-7" (LEVEL II, DUAL COATED)	4	
36		#5 x 8'-8" (LEVEL II, DUAL COATED)	8	
37		#5 x 8'-9" (LEVEL II, DUAL COATED)	4	
38		#5 x 7'-8" (W/ (1) 2'-6" STAGGERED LAP) (40' + 33'-2") (LVL II, DUAL COATED)	11	
39		#5 x 6'-5" (W/ (1) 2'-6" STAGGERED LAP) (40' + 23'-11") (LVL II, DUAL COATED)	11	
40				
41	MK-CR1	MODIFIED UNIVERSAL 4APR DECK FORM HANGER 45' (GALV.) (20" LG.)	15	
42		2" I.D. PVC SLEEVE	4	
43		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4	

APPROVAL STAMP:

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

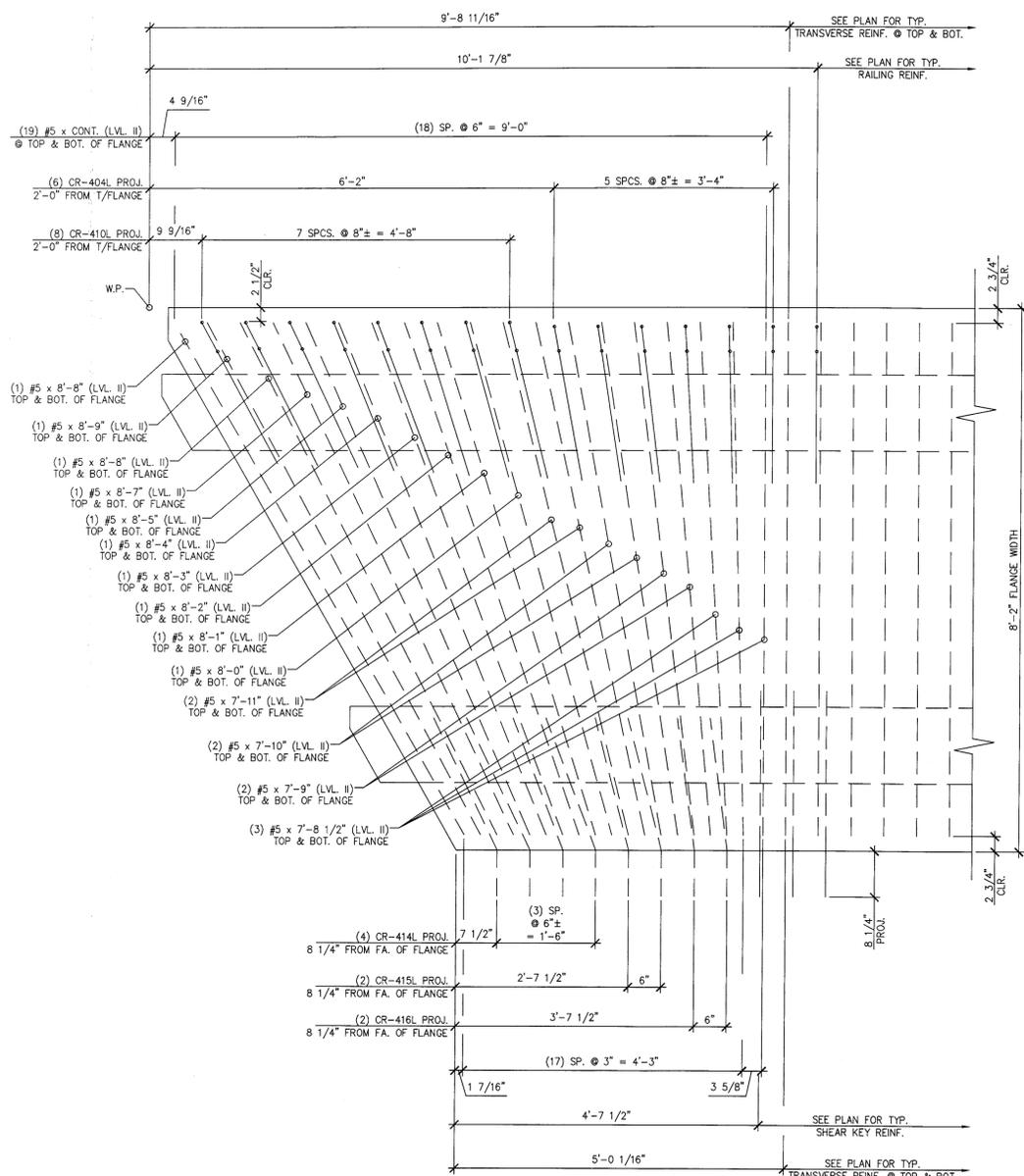
AUSTIN CONSTRUCTION, INC.
CONTRACTOR
CONCORD, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF ORANGE

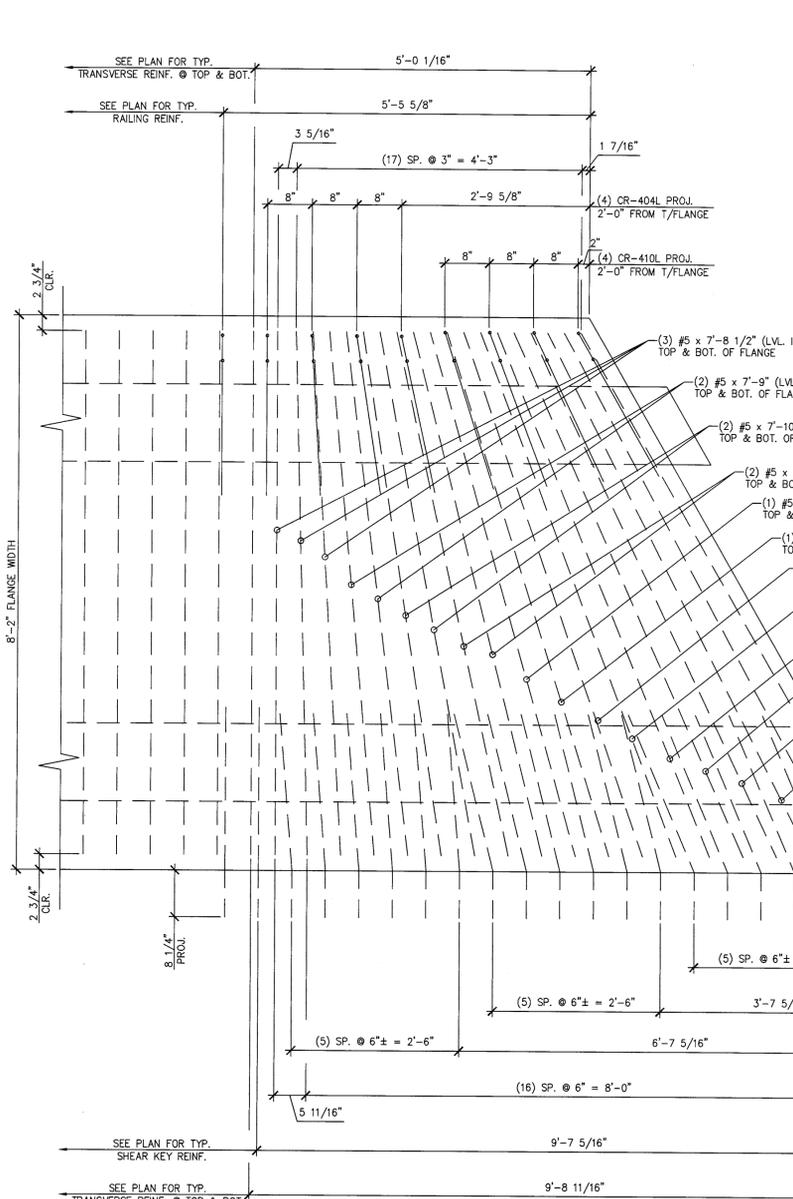
TOWN OF CORINTH
CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD
BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29)

PRESTRESSED NEXT BEAM DETAILS

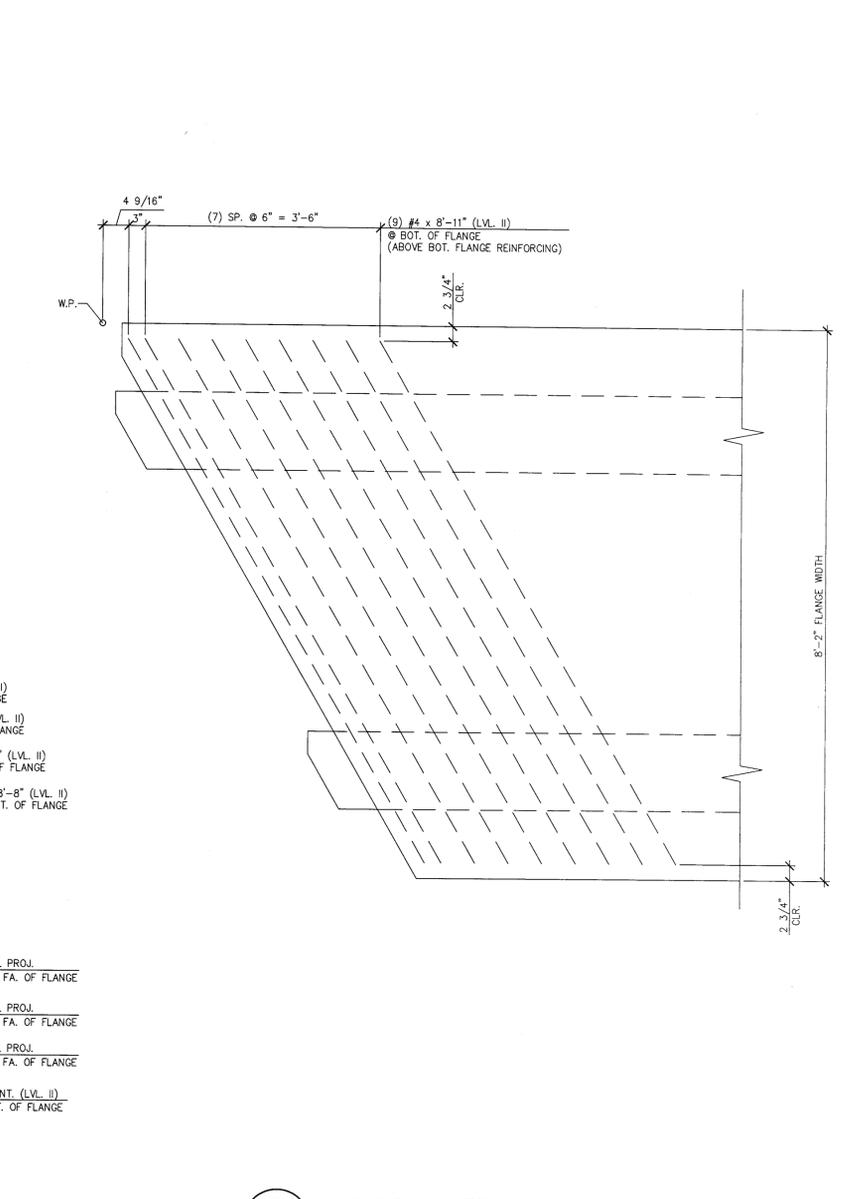
DATE: FEB. 11, 2015
SCALE: NOTED
CHKD: RM DFTM: PSS
JOB NO: 23448-014
DWG. NO: NB4



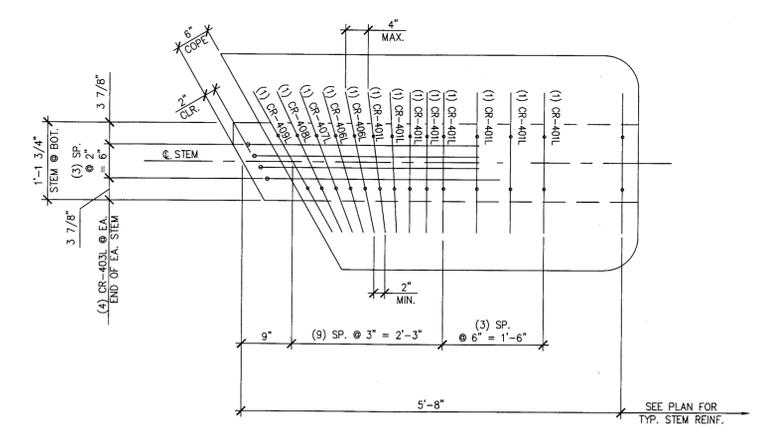
A BEAM END TRANSVERSE REINFORCING
NB4.1 3/4" = 1'-0"



B BEAM END TRANSVERSE REINFORCING
NB4.1 3/4" = 1'-0"



C ADDITIONAL TRANSVERSE REINFORCING
NB4.1 AT BOTTOM OF FLANGE 3/4" = 1'-0"



D BEAM END TRANSVERSE REINFORCING
NB4.1 3/4" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 3/6/2015

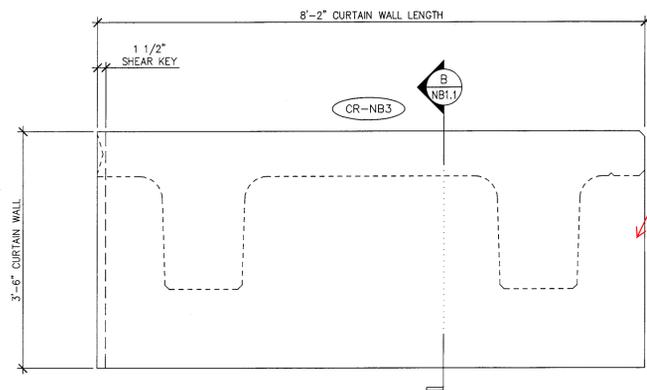
By: *[Signature]*

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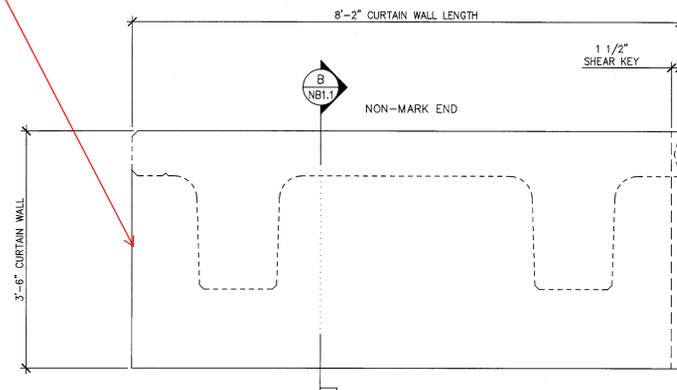
APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE ST., WOODBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		AUSTIN CONSTRUCTION, INC. CONTRACTOR <small>CONCORD, VERMONT</small>	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ORANGE		DATE: FEB. 11, 2015 SCALE: NOTED	
TOWN OF CORINTH CHICKEN FARM ROAD BRIDGE NO.: 36		T.H.16 CLASS 3 LOCAL ROAD PROJECT NO.: BRO 1447 (29)	
PRESTRESSED NEXT BEAM DETAILS		CHKD: RM DFTM: PSS JOB NO: 23448-014 DWG. NO: NB4.1	

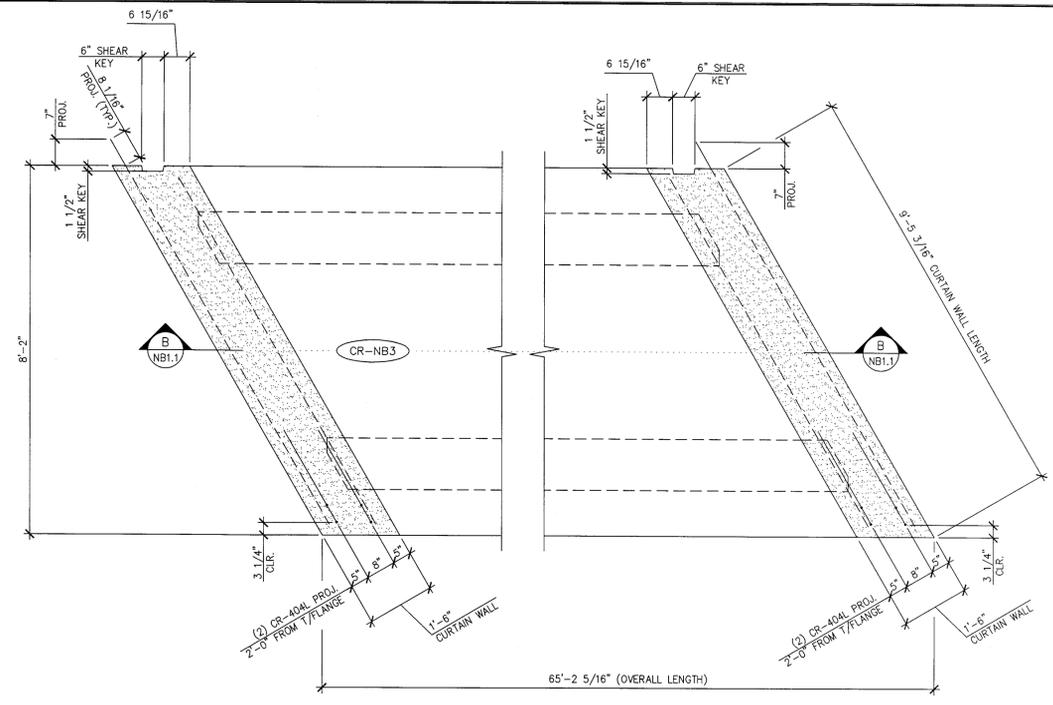
Exterior edges of curtain walls must be plumb in final condition



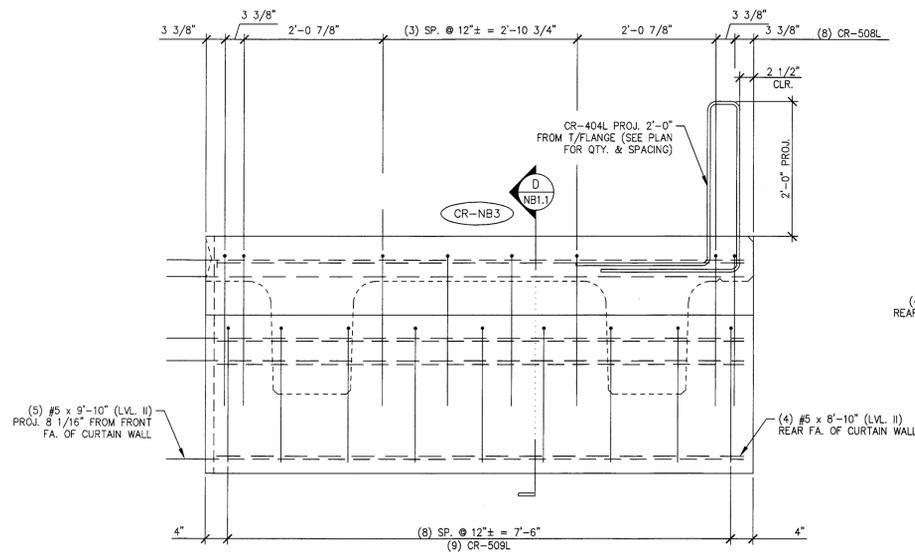
1 CURTAIN WALL DIMENSIONAL ELEVATION
NB4.2 VOL.: 1.54 cy WT.: 3.12 T 3/4" = 1'-0"



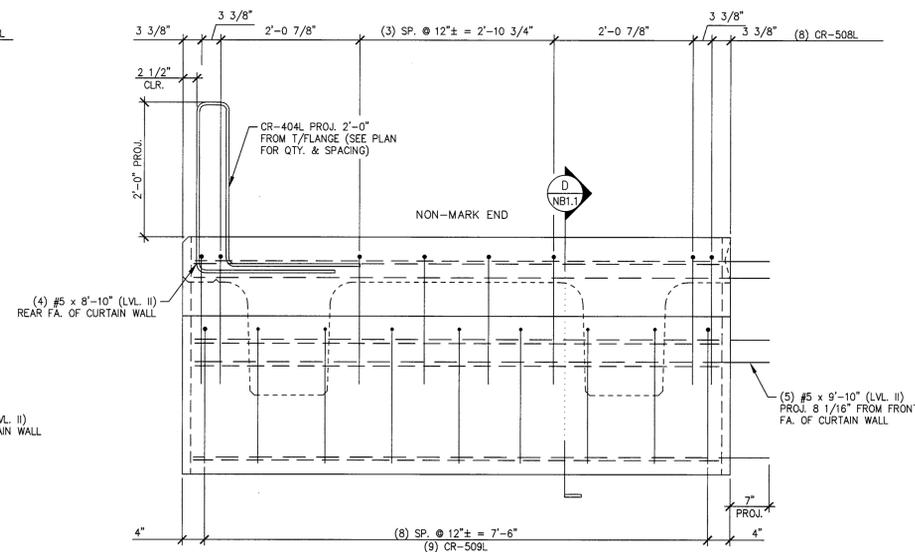
3 CURTAIN WALL DIMENSIONAL ELEVATION
NB4.2 VOL.: 1.54 cy WT.: 3.12 T 3/4" = 1'-0"



5 CURTAIN WALL DIMENSIONAL PLAN
NB4.2 1/2" = 1'-0"



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



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

44.27 T = NEXT BEAM
3.12 T = CURTAIN WALL (MARK END)
3.12 T = CURTAIN WALL (NON-MARK END)
50.51 T = TOTAL BEAM WT.

MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	CR-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
2	CR-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
3	CR-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	9	9
4		#5 x 9'-10" (LVL. II, DUAL COATED)	5	5
5		#5 x 8'-10" (LVL. II, DUAL COATED)	4	4
6				
7				
8				
9				
10				

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 3/6/2015

By: *[Signature]*

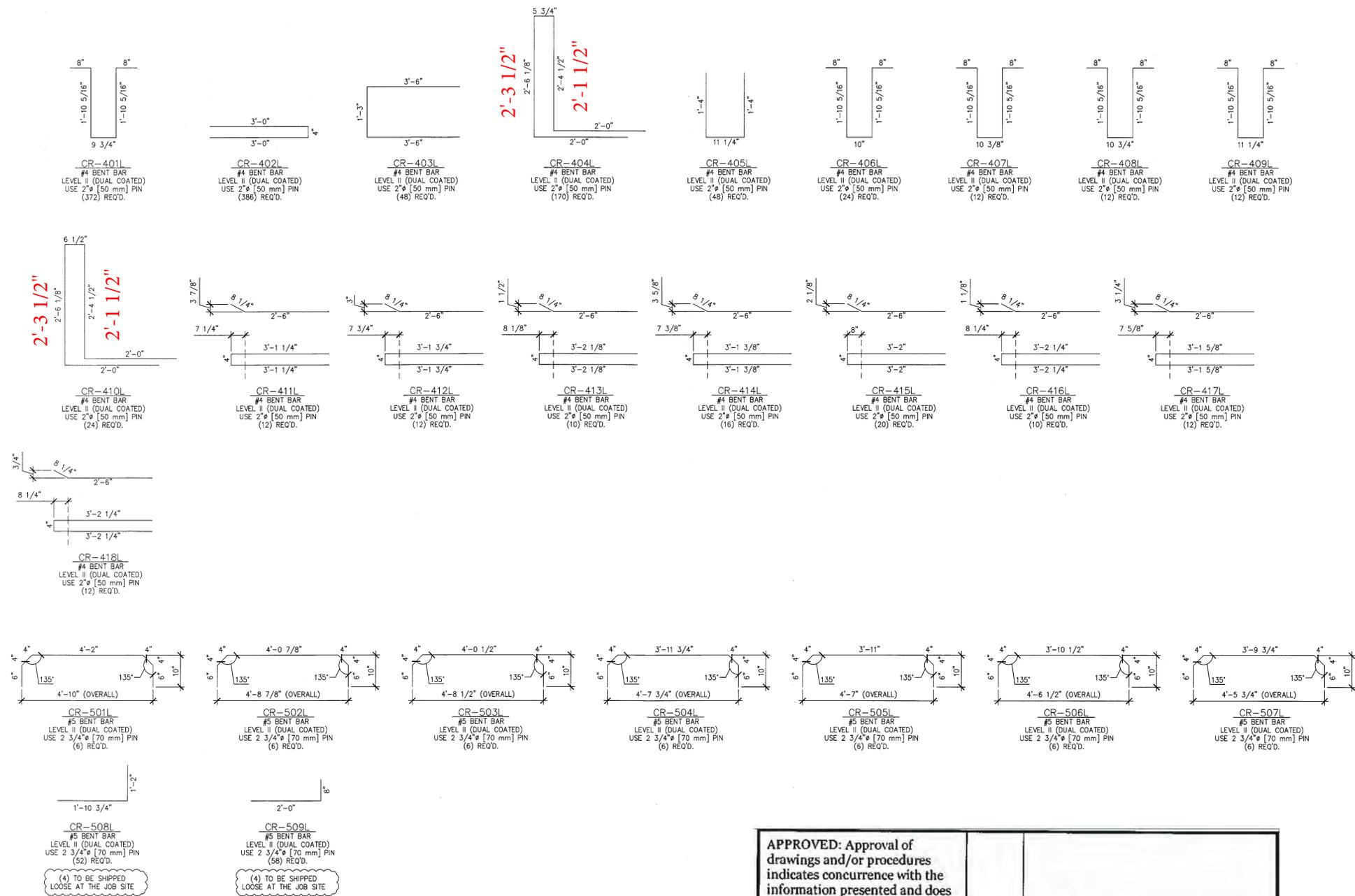
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

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

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ORANGE DATE: FEB. 11, 2015
SCALE: NOTED

TOWN OF CORINTH CHICKEN FARM ROAD T.H.16 CLASS 3 LOCAL ROAD CHKD: RM DFTM: PSS
BRIDGE NO.: 36 PROJECT NO.: BRO 1447 (29) JOB NO: 23448-014

PRECAST CURTAIN WALL DETAILS DWG. NO: NB4.2



NEXT BEAM & CURTAIN WALL MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		54	#4 x 8'-11" (LEVEL II, DUAL COATED)	
2				
3		606	#5 x 7'-8 1/2" (LEVEL II, DUAL COATED)	
4		24	#5 x 7'-9" (LEVEL II, DUAL COATED)	
5		24	#5 x 7'-10" (LEVEL II, DUAL COATED)	
6		24	#5 x 7'-11" (LEVEL II, DUAL COATED)	
7		12	#5 x 8'-0" (LEVEL II, DUAL COATED)	
8		12	#5 x 8'-1" (LEVEL II, DUAL COATED)	
9		12	#5 x 8'-2" (LEVEL II, DUAL COATED)	
10		12	#5 x 8'-3" (LEVEL II, DUAL COATED)	
11		12	#5 x 8'-4" (LEVEL II, DUAL COATED)	
12		12	#5 x 8'-5" (LEVEL II, DUAL COATED)	
13		12	#5 x 8'-6" (LEVEL II, DUAL COATED)	
14		24	#5 x 8'-8" (LEVEL II, DUAL COATED)	
15		12	#5 x 8'-9" (LEVEL II, DUAL COATED)	
16		26	#5 x 8'-10" (LEVEL II, DUAL COATED)	
17		20	#5 x 9'-10" (LEVEL II, DUAL COATED)	
18		8	#5 x 10'-9" (LEVEL II, DUAL COATED)	
19		33	#5 x 70'-8" (W/ (1) 2'-6" STAGGERED LAP) (40' + 33'-2") (LVL II, DUAL COATED)	
20		33	#5 x 61'-5" (W/ (1) 2'-6" STAGGERED LAP) (40' + 23'-11") (LVL II, DUAL COATED)	
21		8	#4 x 61'-6" (W/ (1) 2'-6" STAGGERED LAP) (LVL II, DUAL COATED)	TO BE SHIPPED LOOSE AT THE JOBSITE
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33	MK-CR1	30	MODIFIED UNIVERSAL 4APR DECK FORM HANGER 45" (GALV.) (20" LG.)	
34		12	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
35		12	2" I.D. PVC SLEEVE	
36				
37				
38				

PRESTRESSED NEXT BEAMS

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APPROVED AS NOTED

REVISE AND RESUBMIT ✓

NOT REVIEWED

Date: 3/6/2015

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APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	AUSTIN CONSTRUCTION, INC. CONTRACTOR CONCORD, VERMONT
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MATERIALS LIST		DWG. NO: M1