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ON: April 27, 2015

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BY: Jennifer Fitch DATE: 4/30/15

ABUTMENT, WING WALL & APPROACH SLABS GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE ABUTMENT & WING WALLS = 5,000 PSI. APPROACH SLABS = 4,000 PSI.
- MIN. CONCRETE STRENGTH FOR HANDLING OF WING WALLS AND APPROACH SLABS SHALL BE 3,500 PSI (UNLESS NOTED OTHERWISE).
- MIN. CONCRETE STRENGTH FOR HANDLING OF ABUTMENTS SHALL BE 5,000 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED).
- THE TOP OF ABUTMENTS SHALL RECEIVE A RAKE FINISH ROUGHENED TO 1/4" AMPLITUDE (UNLESS NOTED OTHERWISE).
- THE TOP OF WING WALLS AND APPROACH SLABS SHALL RECEIVE A SMOOTH SCREED FINISH (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
- PRECAST CONCRETE UNITS SHALL BE HANDLED AND ERECTED USING THE LIFTING INSERTS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. NON-PRESTRESSED UNITS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS AT 5TH POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. P510.02 AND P510.05 RESPECTIVELY.
DESIGN MIX:
WING WALLS: J.P.C. BRIDGE MIX #445MSCC
APPROACH SLABS: J.P.C. BRIDGE MIX #445MSCC
ABUTMENTS: J.P.C. BRIDGE MIX #445M-NO DCI
- QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
- CURING METHOD: AS SOON AS THE TOP OF PRECAST CONCRETE UNITS ARE FINISHED, A COVER OF RIGID INSULATION AND POLY WILL BE PLACED OVER THE UNIT. NATURAL CURE WITH NO EXTERNAL HEAT APPLIED.
- ABUTMENT POST-TENSIONING SEQUENCE:
A. ERECT PRECAST CONCRETE ABUTMENTS AND INSTALL TRANSVERSE STRANDS.
B. APPLY EPOXY BONDING COMPOUND TO MATCH CAST FACES OF VERTICAL CONSTRUCTION JOINTS.
C. TENSION STRANDS TO 3 KIPS.
D. CHECK ALIGNMENT OF PILE CAP ELEMENTS.
E. POST-TENSION STRANDS TO 32 KIPS.

ALL

VERIFY DESIGN MIX.

NEXT BEAM GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 7,500 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 ROUGHENED TO 1/8" AMPLITUDE.
- 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, 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. P510.02 AND P510.05 RESPECTIVELY.
DESIGN MIX: J.P.C. BRIDGE MIX #430M W/5 GAL 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 50°. 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 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: 0.217 IN²
TENSION: 44,000 LB. EACH STRAND
GRIP-TO-GRIP: 252'-0" = 252.00'
E_s = 28,500,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

EXAMPLE:
$$\Delta = \frac{P_L}{AE} = \frac{(44,000 - 3,000) \times 252.00 \times 12}{0.217 \times 28,500,000} = 20.047'$$

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.

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.

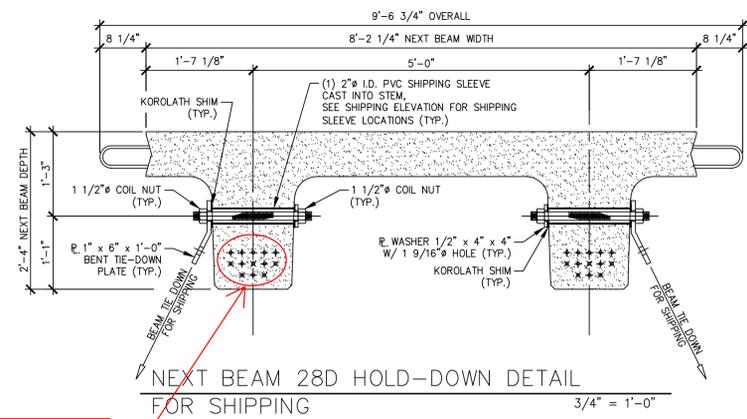
DRAWING INDEX

SHT. #	DRAWING TITLE	REV. #	REV. DATE
C1	COVER SHEET		
F1	PRECAST ABUTMENT LAYOUT		
F2	ABUTMENT #1 ELEVATIONS		
F3	ABUTMENT #2 ELEVATIONS		
F4	PRESTRESSED NEXT BEAM & APPROACH SLAB LAYOUT		
F5	TRANSVERSE SECTION & DETAILS		
NB1	PRESTRESSED NEXT BEAM DETAILS		
NB2	PRESTRESSED NEXT BEAM DETAILS "CT-NB1"		
NB2.1	PRESTRESSED NEXT BEAM DETAILS "CT-NB1"		
NB3	PRESTRESSED NEXT BEAM DETAILS "CT-NB2"		
NB3.1	PRESTRESSED NEXT BEAM DETAILS "CT-NB2"		
NB3.2	PRESTRESSED NEXT BEAM DETAILS "CT-NB2"		
NB4	PRESTRESSED NEXT BEAM DETAILS "CT-NB3"		
NB4.1	PRESTRESSED NEXT BEAM DETAILS "CT-NB3"		
NB4.2	PRESTRESSED NEXT BEAM DETAILS "CT-NB3"		
AS1	PRECAST APPROACH SLAB DETAILS "CT-AS1"		
AS2	PRECAST APPROACH SLAB DETAILS "CT-AS2"		
AS3	PRECAST APPROACH SLAB DETAILS "CT-AS3"		
AS4	PRECAST APPROACH SLAB DETAILS "CT-AS4"		
AS5	PRECAST APPROACH SLAB DETAILS "CT-AS5"		
AB1	PRECAST ABUTMENT PLAN, SECTION & DETAILS		
AB2	PRECAST ABUTMENT DETAILS "CT-AB2"		
AB3	PRECAST ABUTMENT DETAILS "CT-AB1"		
AB3.1	PRECAST ABUTMENT DETAILS "CT-AB1" & "CT-AB4"		
AB4	PRECAST ABUTMENT DETAILS "CT-AB3"		
AB5	PRECAST ABUTMENT DETAILS "CT-AB4"		
WW1	PRECAST WINGWALL DETAILS "CT-WW1"		
WW2	PRECAST WINGWALL DETAILS "CT-WW2"		
WW3	PRECAST WINGWALL DETAILS "CT-WW3"		
WW4	PRECAST WINGWALL DETAILS "CT-WW4"		
M1	MATERIALS LIST (NEXT BEAMS)		
M2	MATERIALS LIST (ABUTMENTS, WINGWALLS & APPROACH SLABS)		

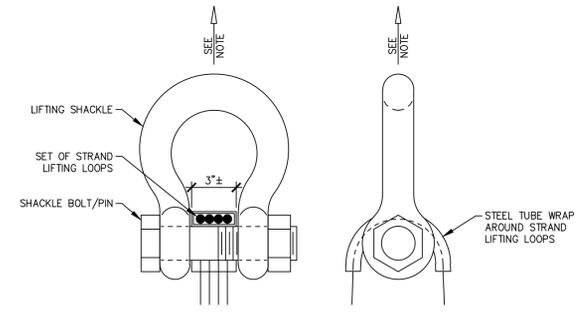
DESIGN LIVE LOAD: HL-93

CONTRACTOR SHALL PROVIDE DETAILS FOR FORMING CLOSURE POUR, INCLUDING REINFORCING SCHEDULE.

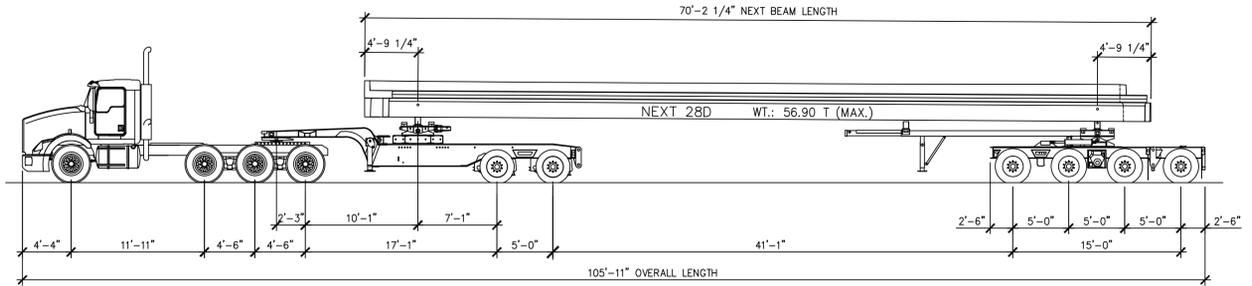
CONTRACTOR SHALL PROVIDE ADDITIONAL BARS FOR CAST-IN-PLACE PORTION OF CURB, INCLUDING REINFORCING SCHEDULE.



SHOW THE CORRECT STRAND PATTERN.



LIFTING SHACKLE DETAILS N.T.S.



SHIPPING ELEVATION N.T.S.

SHOP DRAWING REVIEW

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

REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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

40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
802.497.6100

Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

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

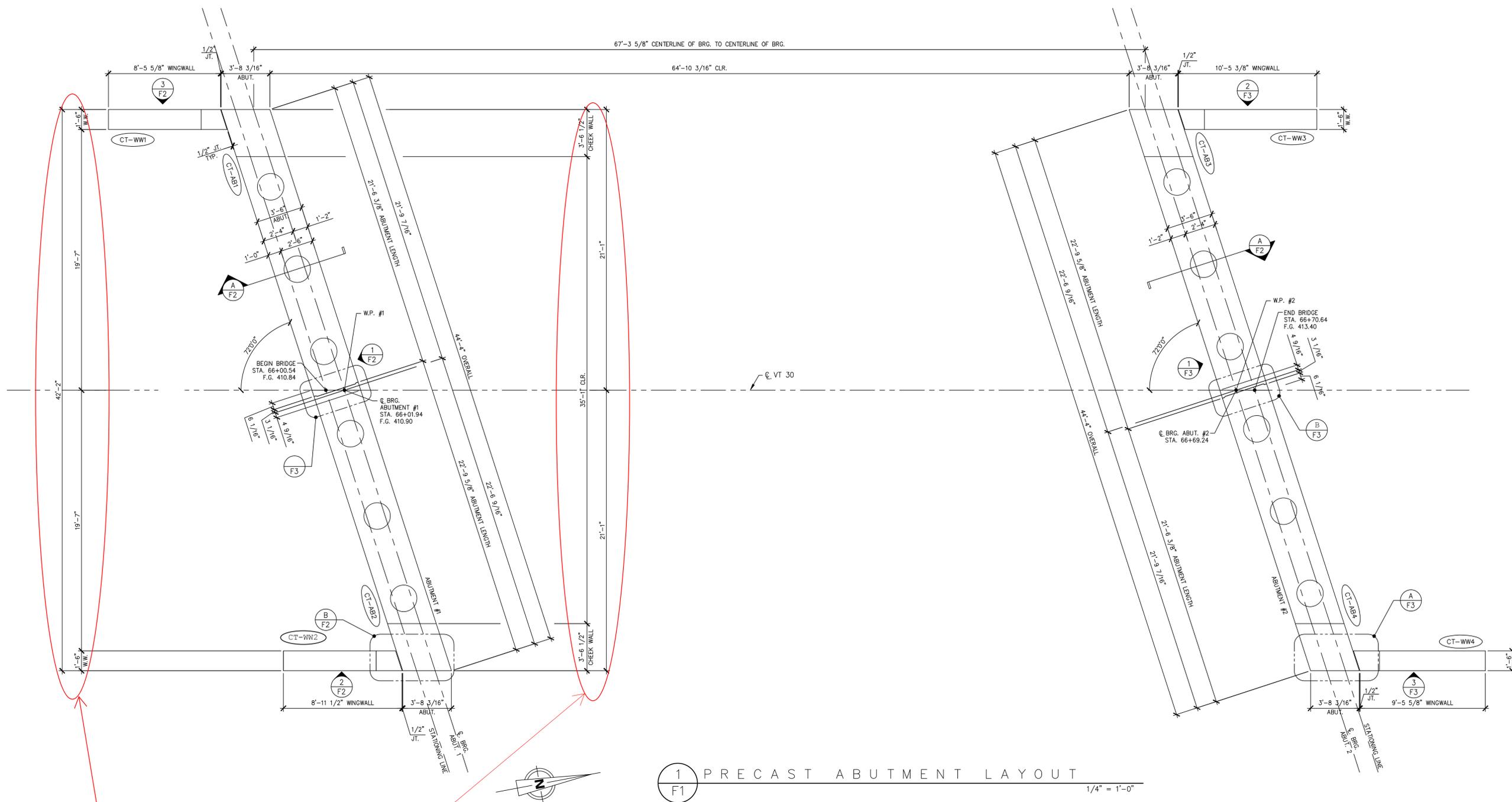
SHULTZ CONSTRUCTION
CONTRACTOR
BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 16, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

COVER SHEET DWG. NO: C1



ARE THESE DIMENSIONS
TYPICAL PER ABUTMENT?

1 PRECAST ABUTMENT LAYOUT
F1 1/4" = 1'-0"

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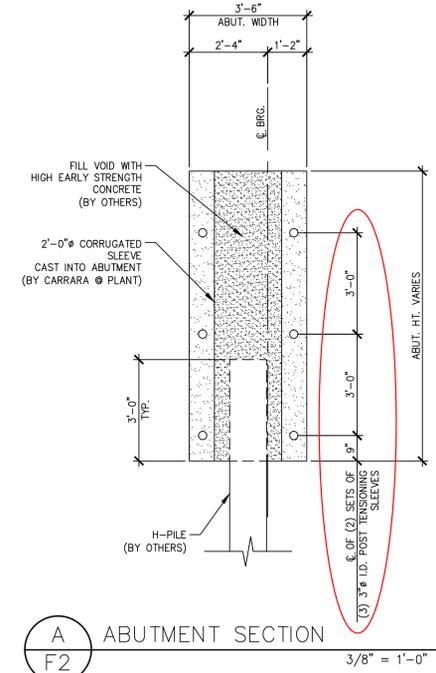
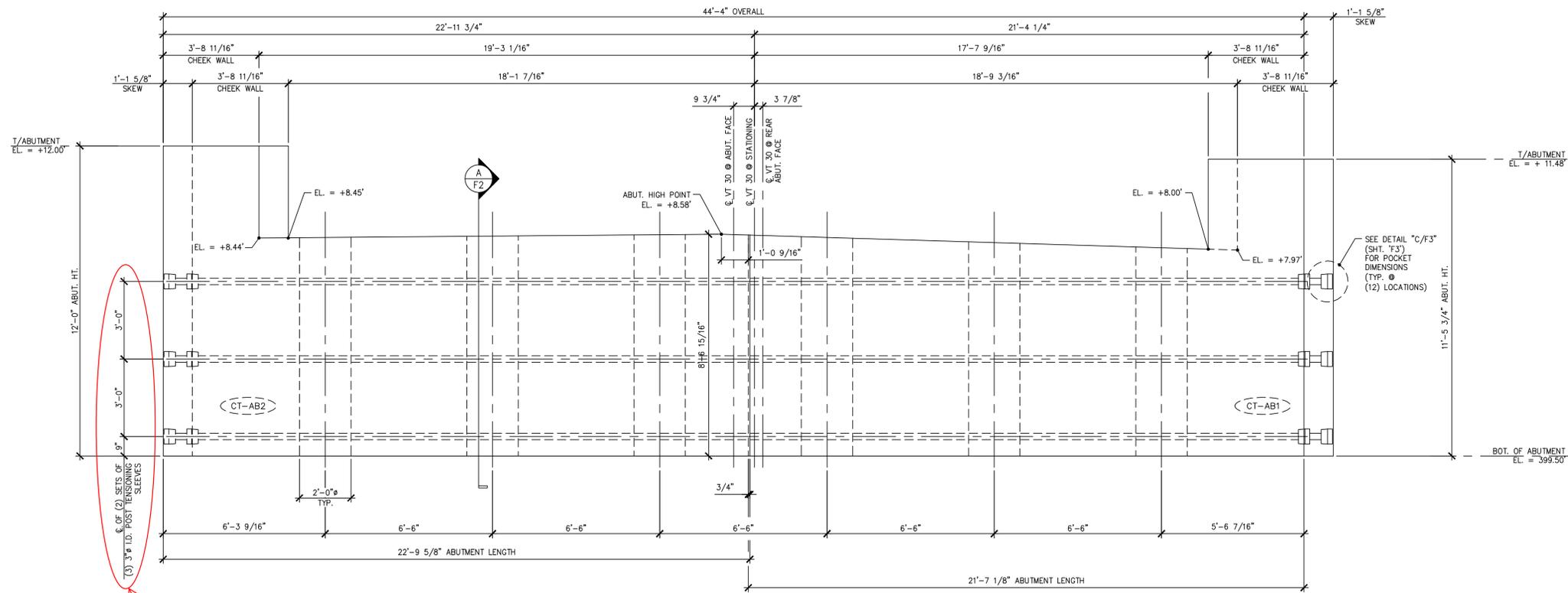
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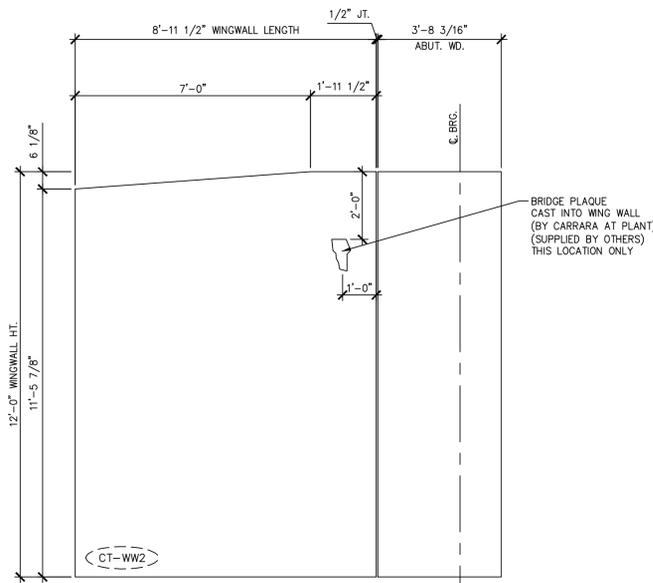
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		SHULTZ CONSTRUCTION CONTRACTOR <small>BALLSTON SPA, NY</small>	
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PRECAST ABUTMENT LAYOUT		DWG. NO: F1	



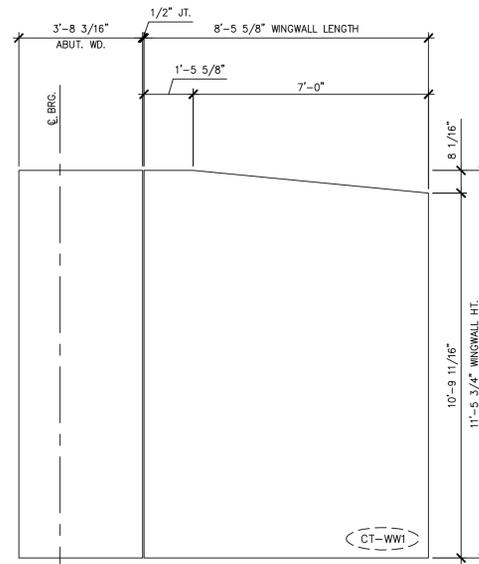
1 ABUTMENT #1 ELEVATION
3/8" = 1'-0"

VERIFY SLEEVE SPACING WITH CONTRACT PLANS (TYP.)

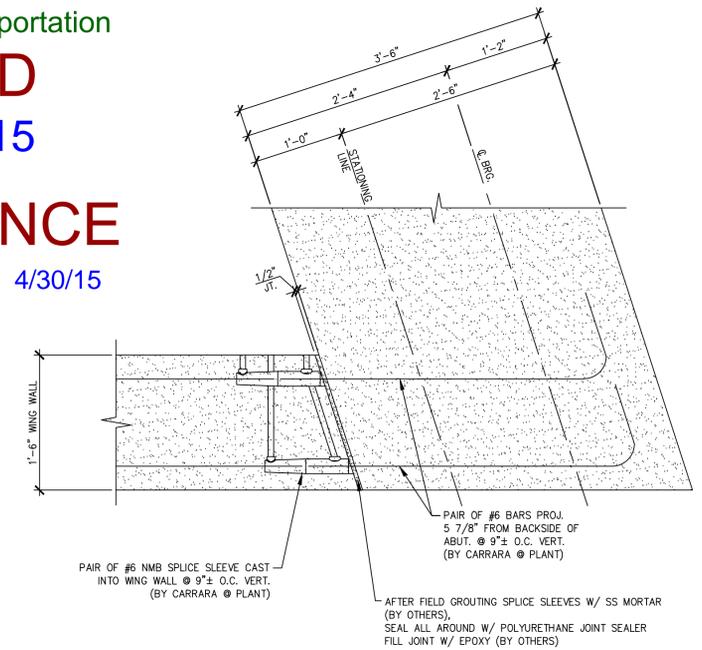
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2 WINGWALL #2 ELEVATION
3/8" = 1'-0"



3 WINGWALL #1 ELEVATION
3/8" = 1'-0"



B WING WALL CONNECTION DETAIL
1" = 1'-0"

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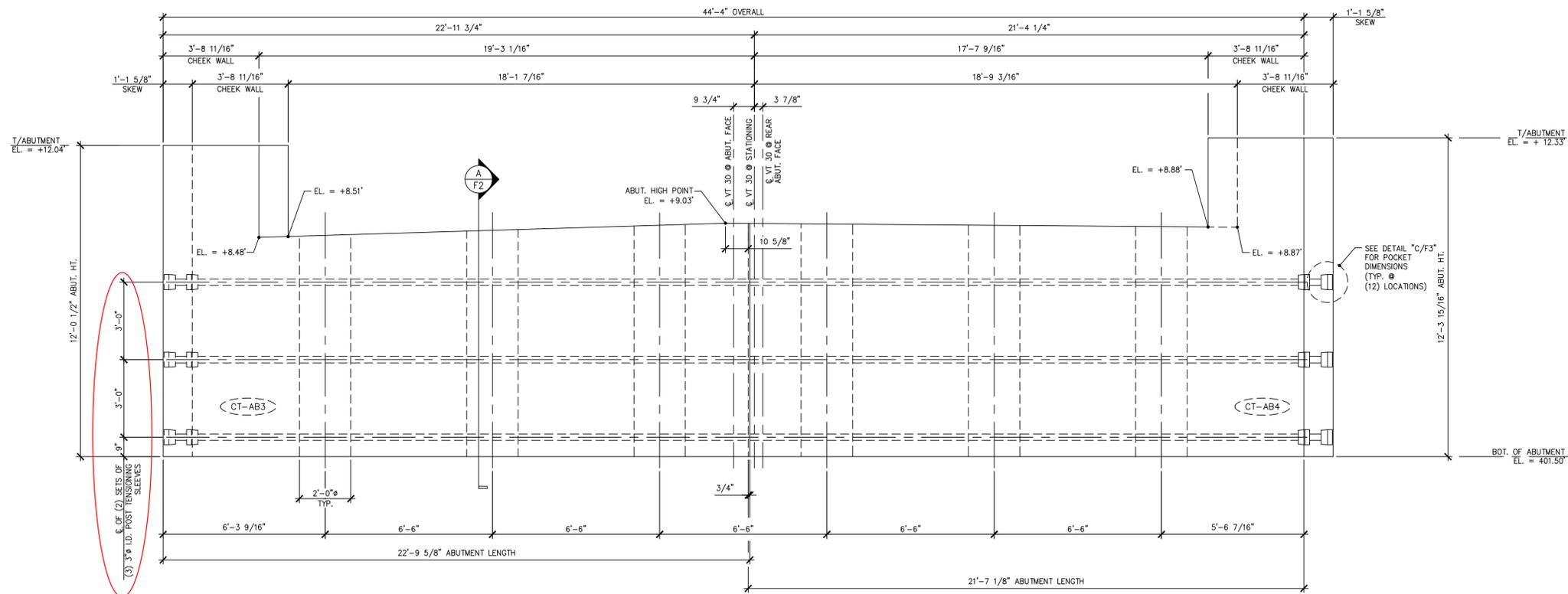
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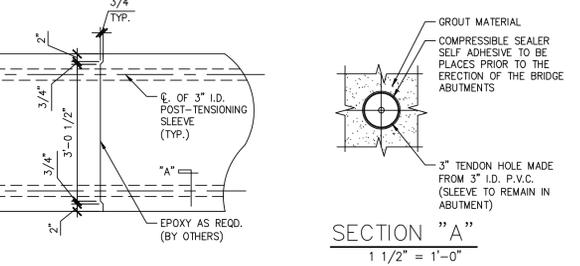
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J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 16, 2015	SCALE: NOTED
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M.	DFTM: PSS
ABUTMENT #1 ELEVATIONS		JOB NO: 23456-015	DWG. NO: F2

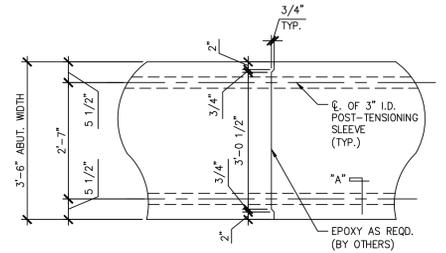


1 ABUTMENT #2 ELEVATION
3/8" = 1'-0"

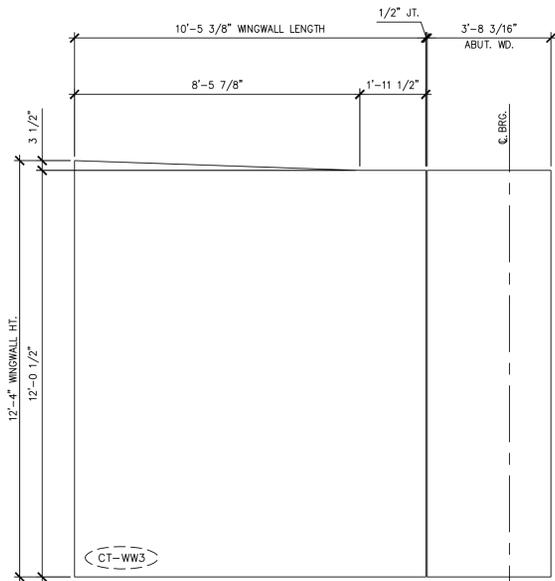
A WING WALL CONNECTION DETAIL
1" = 1'-0"



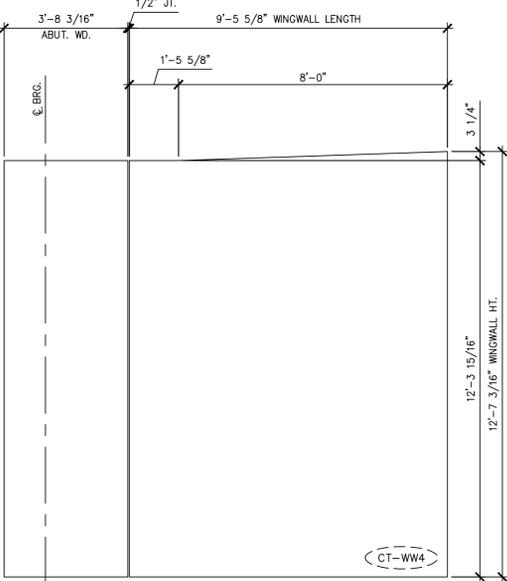
SECTION "A"
1 1/2" = 1'-0"



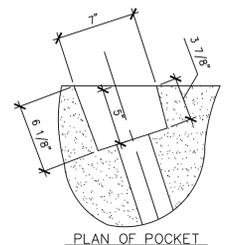
B MATCH CAST SECTION @ P.T. SLEEVE
1/2" = 1'-0"



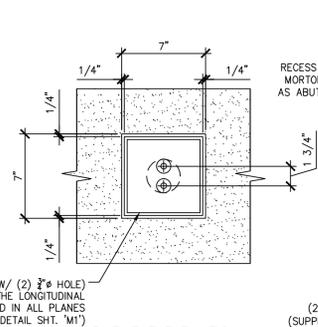
2 WINGWALL #3 ELEVATION
3/8" = 1'-0"



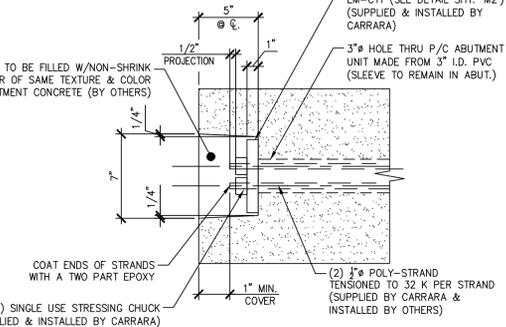
3 WINGWALL #4 ELEVATION
3/8" = 1'-0"



PLAN OF POCKET



ABUTMENT ELEVATION



SECTION AT CENTERLINE

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

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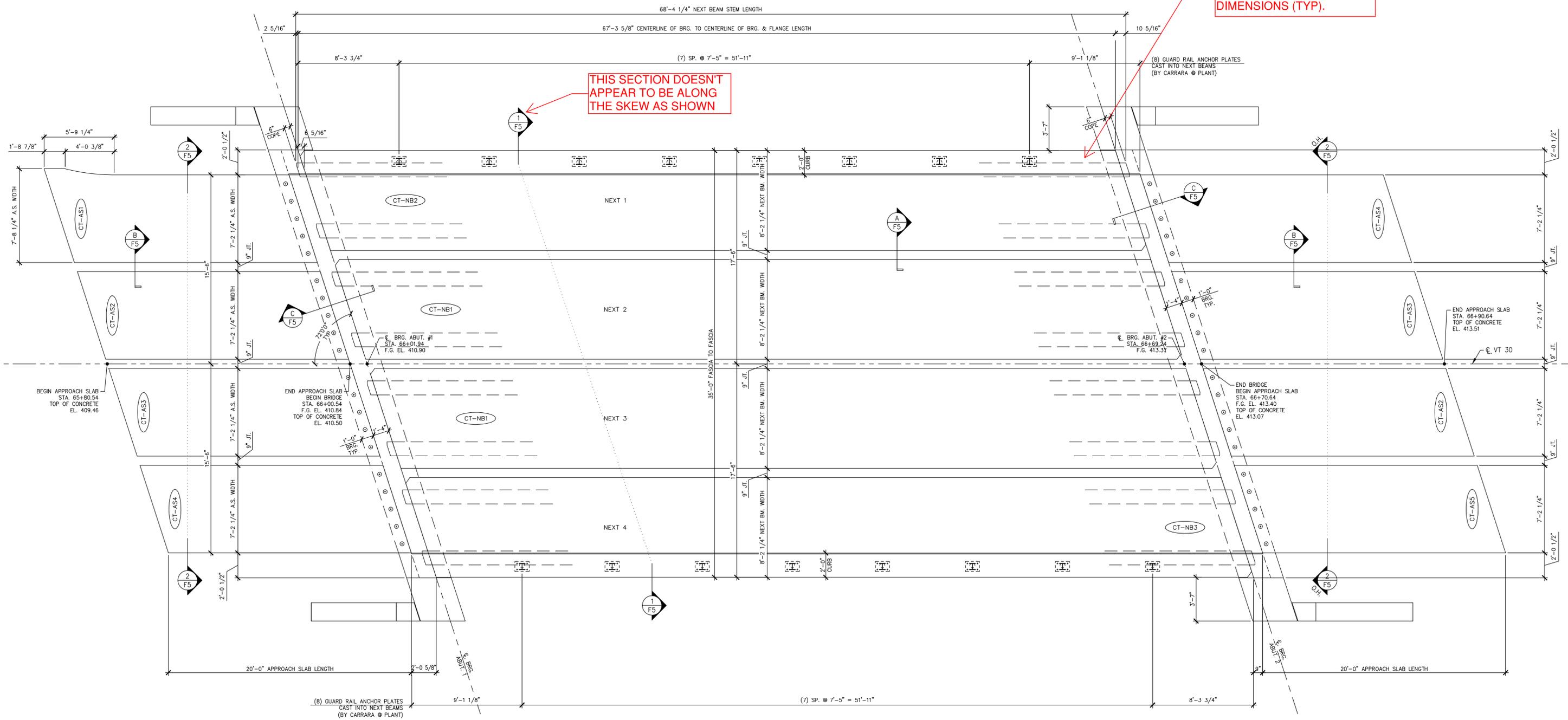
SHULTZ CONSTRUCTION
CONTRACTOR
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JOB NO: 23456-015
DWG. NO: F3

ABUTMENT #2 ELEVATION



THIS SECTION DOESN'T APPEAR TO BE ALONG THE SKEW AS SHOWN

SHOW CURB RFI: END OF PRECAST CURB WITH DIMENSIONS (TYP).

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1 NEXT BEAM & APPROACH SLAB LAYOUT

1/4" = 1'-0"

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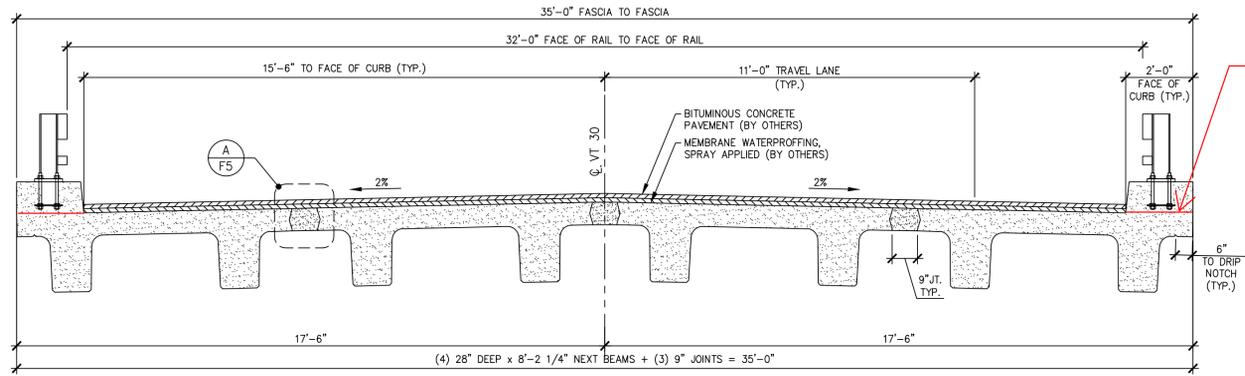
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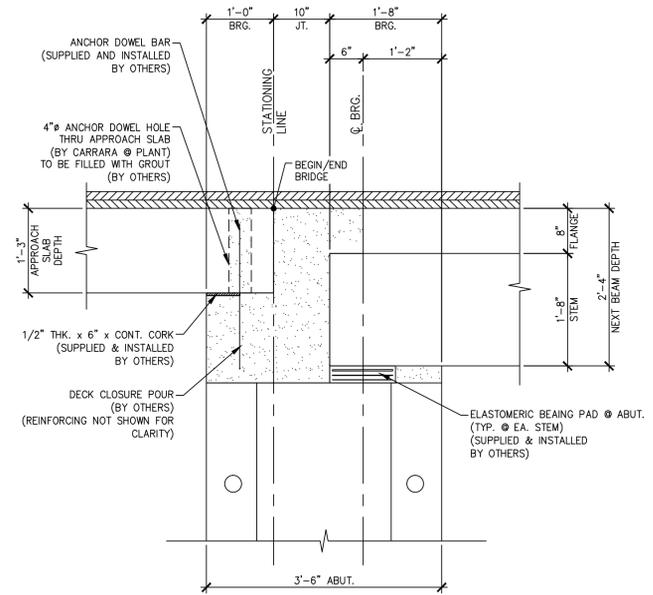
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J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 16, 2015	
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		SCALE: NOTED	CHKD: R.M. DFTM: PSS
PRESTRESSED NEXT BEAM & APPROACH SLAB LAYOUT		JOB NO: 23456-015	DWG. NO: F4

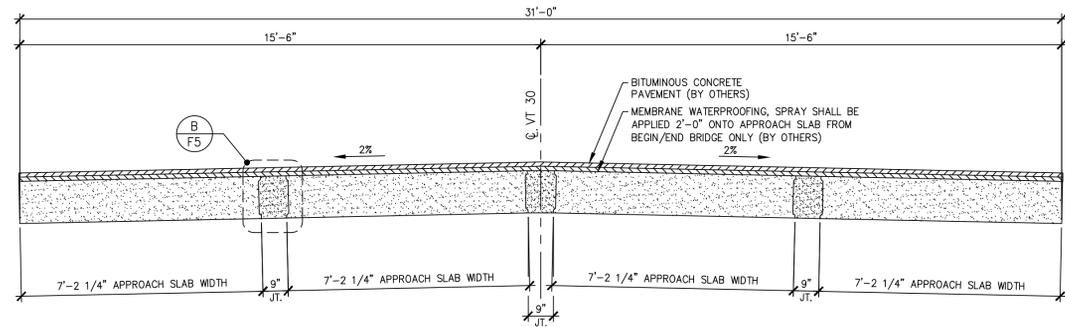


1 TRANSVERSE NEXT BEAM SECTION
F5 3/8" = 1'-0"

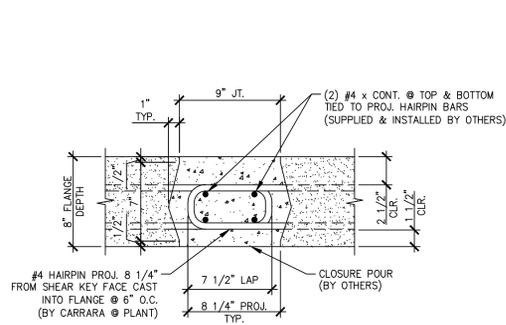
SHOW JOINT FOR SECOND POUR WITH ROUGHENED SURFACE.



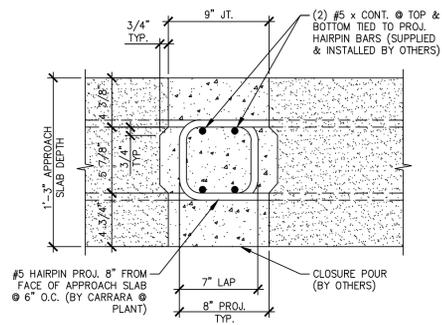
C BEARING SECTION
F5 3/4" = 1'-0"



2 TRANSVERSE APPROACH SLAB SECTION
F5 3/8" = 1'-0"



A NEXT BEAM CLOSURE POUR
F5 1 1/2" = 1'-0"



B APPROACH SLAB CLOSURE POUR
F5 1 1/2" = 1'-0"

Vermont Agency of Transportation

RECEIVED

ON: April 27, 2015

and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 4/30/15

SHOP DRAWING REVIEW

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

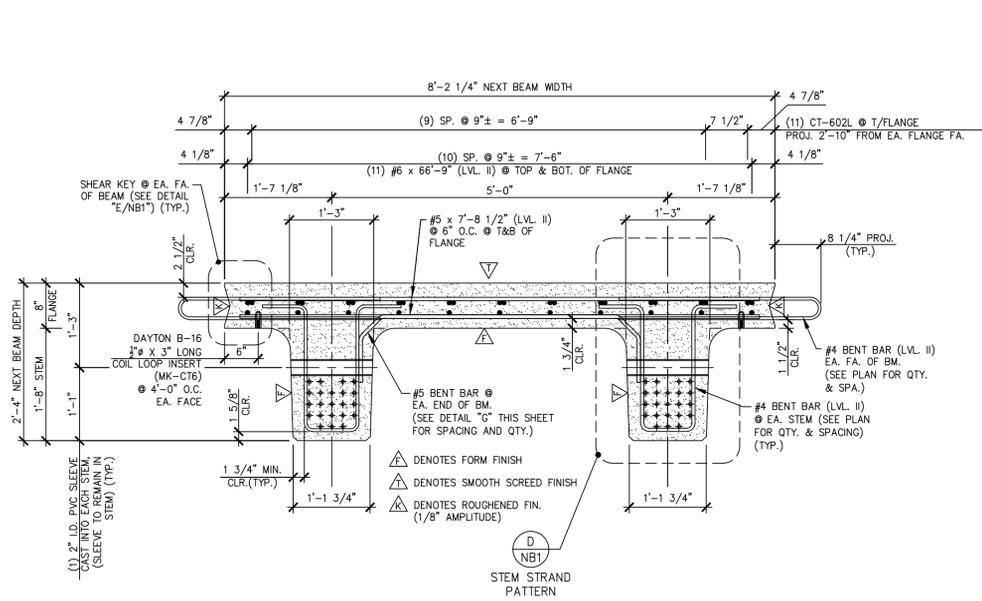
REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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

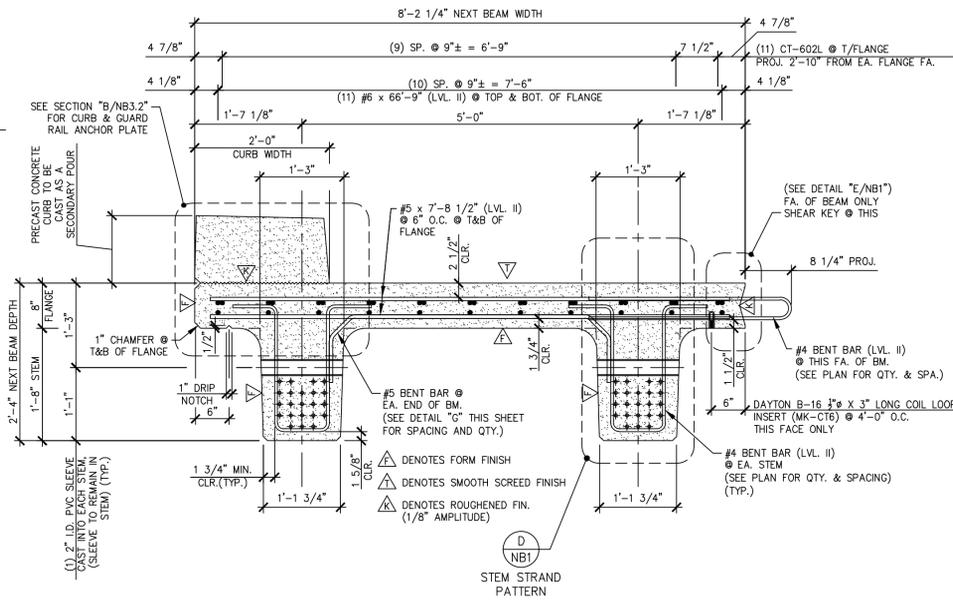
40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
802.497.6100

Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

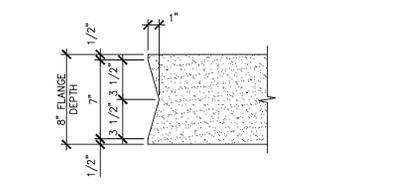
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GSE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 16, 2015	SCALE: NOTED
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M.	DFTM: PSS
TRANSVERSE SECTION & DETAILS		JOB NO: 23456-015	DWG. NO: F5



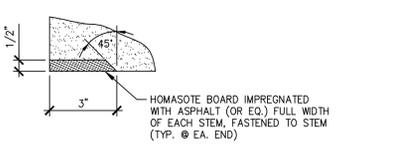
A DIMENSIONAL & REINFORCING SECTION
NB1 3/4" = 1'-0"



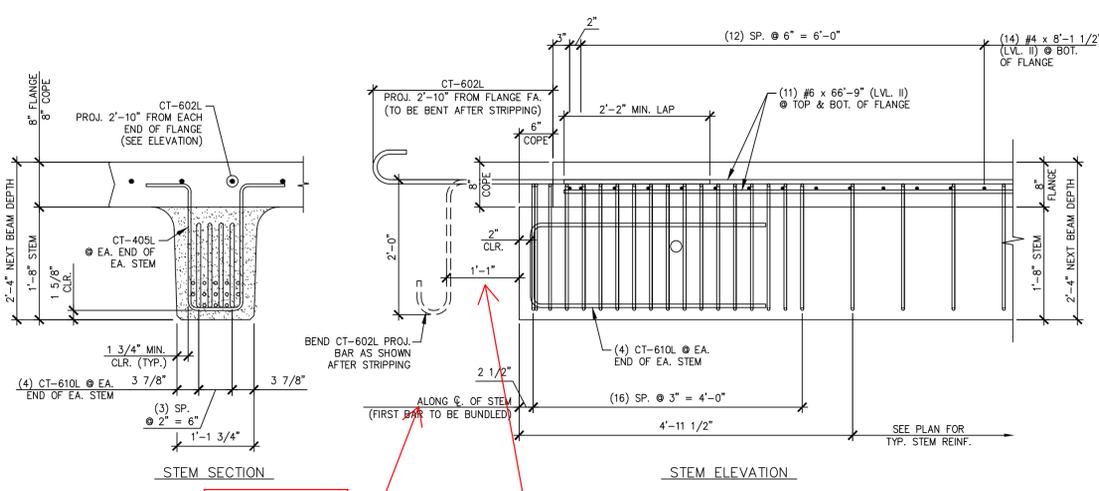
B DIMENSIONAL & REINFORCING SECTION
NB1 3/4" = 1'-0"



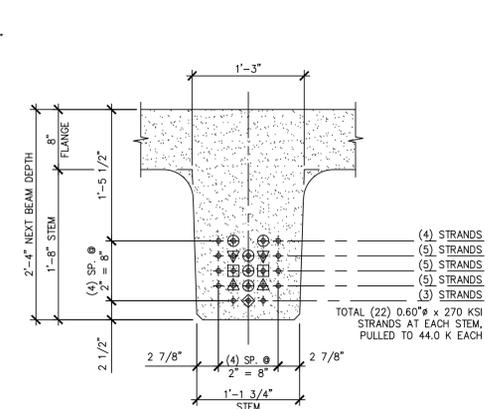
E SHEAR KEY DETAIL
NB1 1 1/2" = 1'-0"



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



C END BLOCK STEM REINFORCING DETAILS
NB1 3/4" = 1'-0"



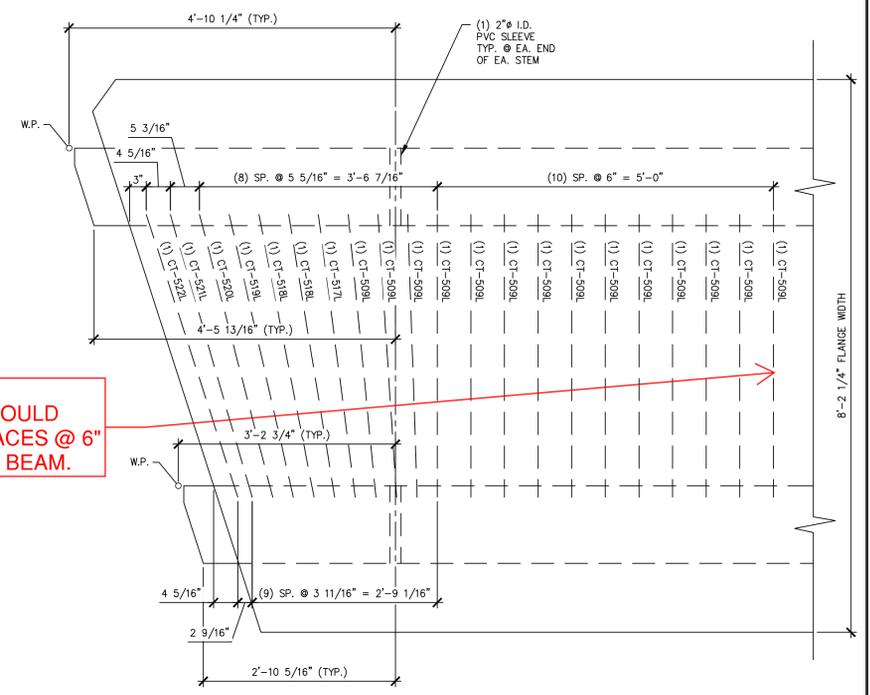
D STEM STRAND PATTERN
NB1 1" = 1'-0"

- PRESTRESSING NOTATIONS**
- ⊕ DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
 - ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
 - ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6"-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 10"-0" FROM EA. END OF EA. STEM



DETENSIONING SCHEDULE
N.T.S.

PER PCI, THIS REINFORCING SHOULD CONTINUE 20 SPACES @ 6" FOR 10' INTO THE BEAM.



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

1'-1" DOES NOT WORK WITH THE ABUTMENT CONFIGURATION. THIS DIMENSION BE FROM THE END OF THE FLANGE.

Vermont Agency of Transportation

RECEIVED

ON: **April 27, 2015**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 4/30/15

SHOP DRAWING REVIEW

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

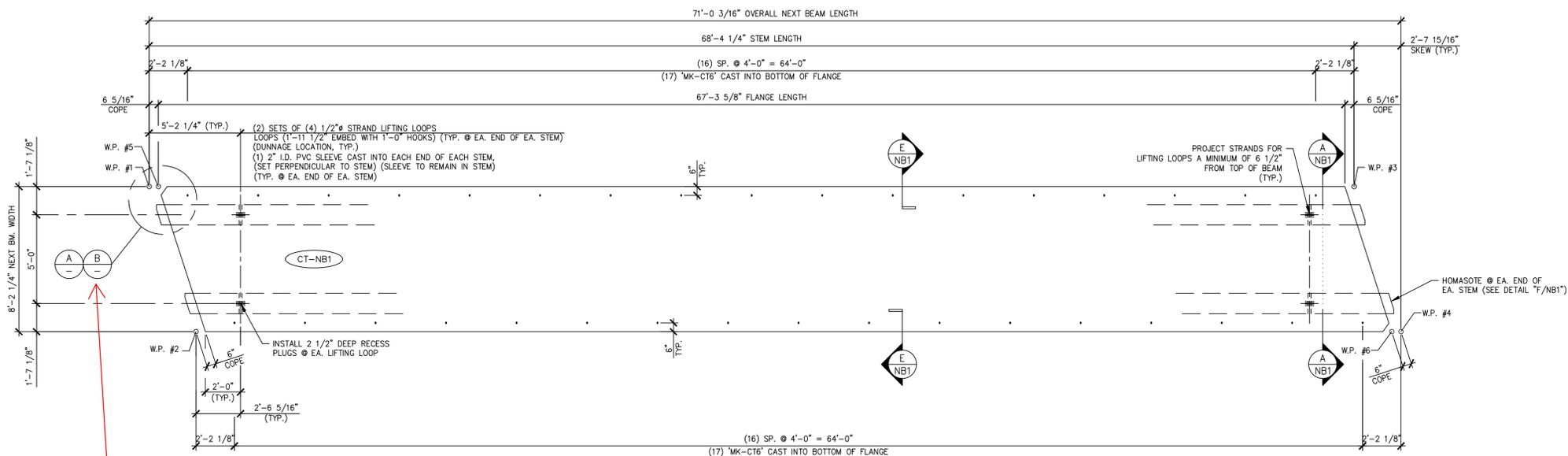
REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
802.497.6100

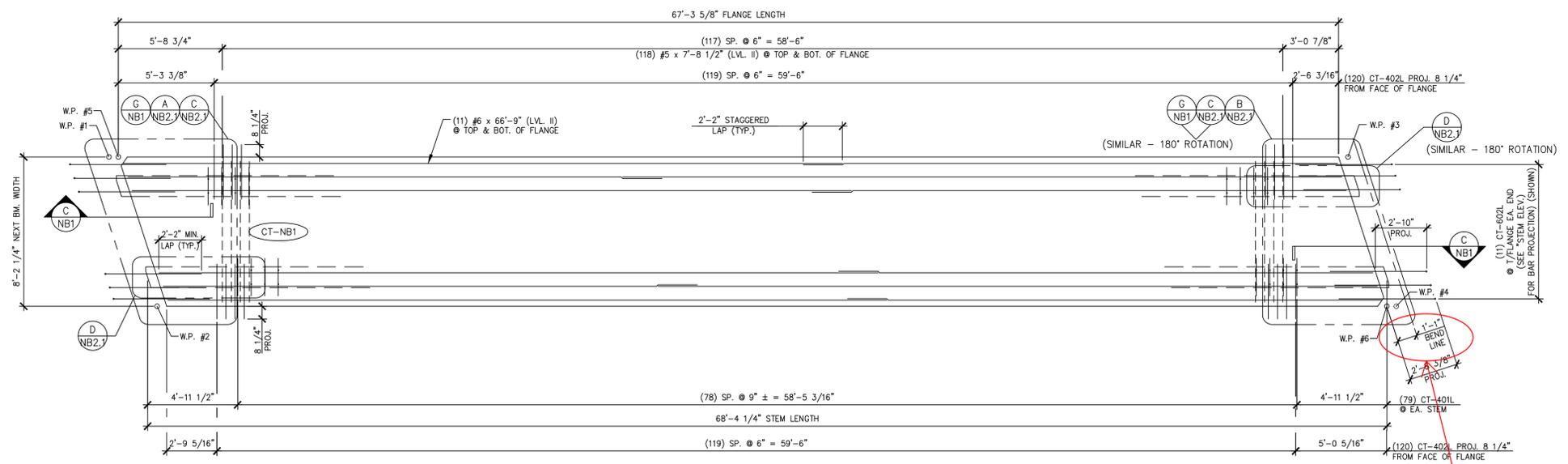
Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GSE STR., WOODSBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 17, 2015	SCALE: NOTED
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M.	DTM: PSS
PRESTRESSED NEXT BEAM DETAILS		JOB NO: 23456-015	DWG. NO: NB1



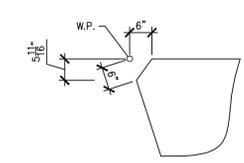
1 DIMENSIONAL PLAN VIEW IN FORM
NB2 1/4" = 1'-0"

INCLUDE NUMBER FOR DETAILS.

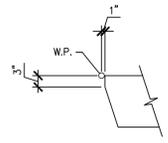


2 REINFORCING PLAN VIEW IN FORM
NB2 1/4" = 1'-0"

DIMENSION LOCATION DOES NOT MATCH SHEET NB1. VERIFY.



A ACUTE CORNER BLOCKOUT DETAIL
NB2 (FOR FLANGE) 1/2" = 1'-0"



B ACUTE CORNER BLOCKOUT DETAIL
NB2 (FOR STEM) 1/2" = 1'-0"

Vermont Agency of Transportation
RECEIVED
ON: **April 27, 2015**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 4/30/15

MARK: CT-NB1		QTY.: 2	WT.: 48.19 T	VOL.: 23.80 cy
MATERIAL LIST / NEXT BEAM				
ITEM	MARK	DESCRIPTION	QTY.	
1	CT-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	210	
2	CT-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	240	
3	CT-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	4	
4	CT-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	16	
5	CT-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	13	
6	CT-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	5	
7	CT-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	4	
8	CT-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	5	
9	CT-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	28	
10	CT-517L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
11	CT-518L	#5 BENT BAR (LEVEL II, DUAL COATED)	4	
12	CT-519L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
13	CT-520L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
14	CT-521L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
15	CT-522L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	
16	CT-602L	#6 BENT BAR (LEVEL II, DUAL COATED)	22	
17	CT-610L	#6 BENT BAR (LEVEL II, DUAL COATED)	16	
18				
19				
20				
21				
22		#4 x 8'-1 1/2" (LEVEL II, DUAL COATED)	28	
23		#5 x 7'-8 1/2" (LEVEL II, DUAL COATED)	244	
24		#5 x 7'-9" (LEVEL II, DUAL COATED)	12	
25		#5 x 7'-10" (LEVEL II, DUAL COATED)	8	
26		#5 x 7'-11" (LEVEL II, DUAL COATED)	8	
27		#5 x 8'-0" (LEVEL II, DUAL COATED)	8	
28				
29		#6 x 66'-9" (W/ (1) 2'-2" STAGGERED LAP) (40' + 28'-11") (LVL II, DUAL COATED)	22	
30				
31				
32				
33		2" I.D. PVC SLEEVE	4	
34		SET OF (4) 1/2" x 270 KSI STRAND LIFTING LOOPS	4	
35	MK-CT6	DAYTON B-16 1/2" x 3" LONG COIL LOOP INSERTS (ELECTROPLATED GALV.)	34	

SHOP DRAWING REVIEW

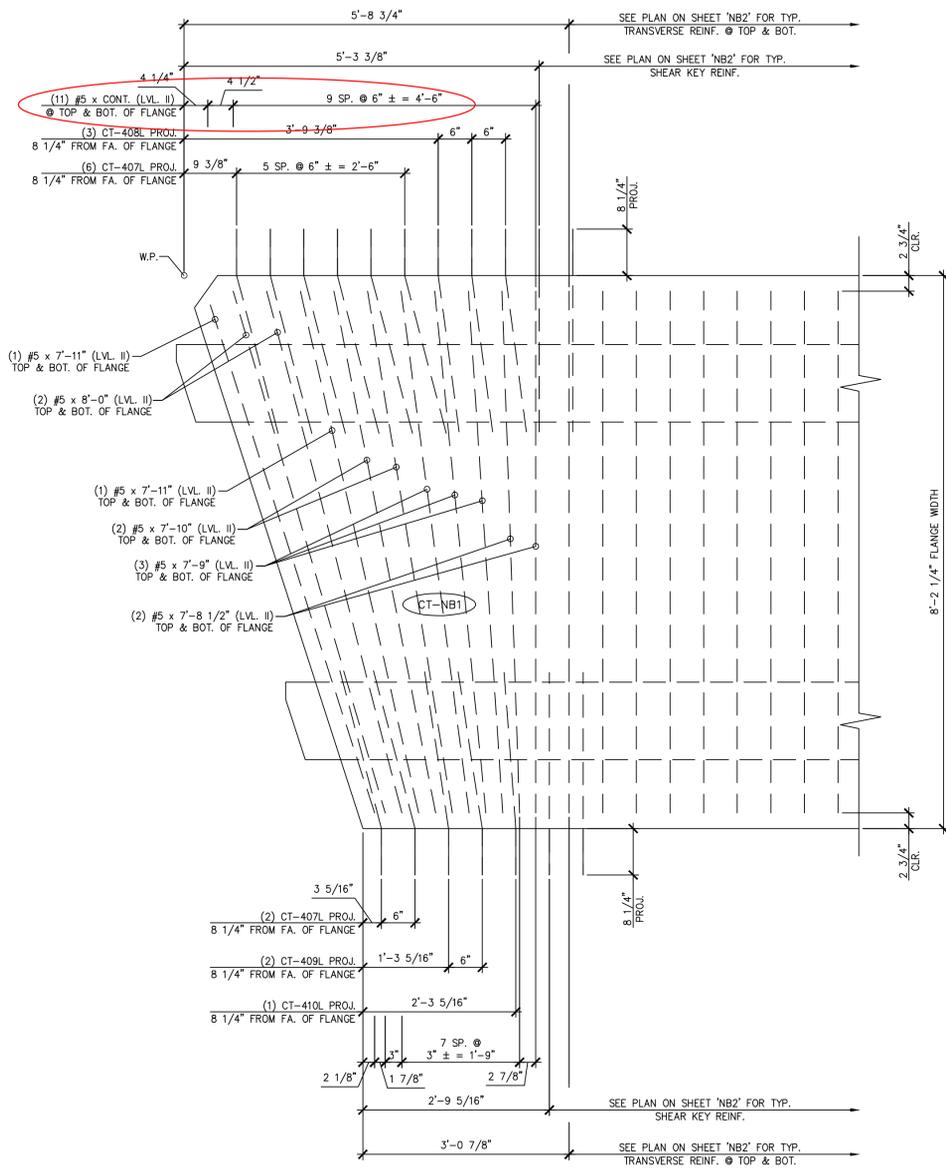
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REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

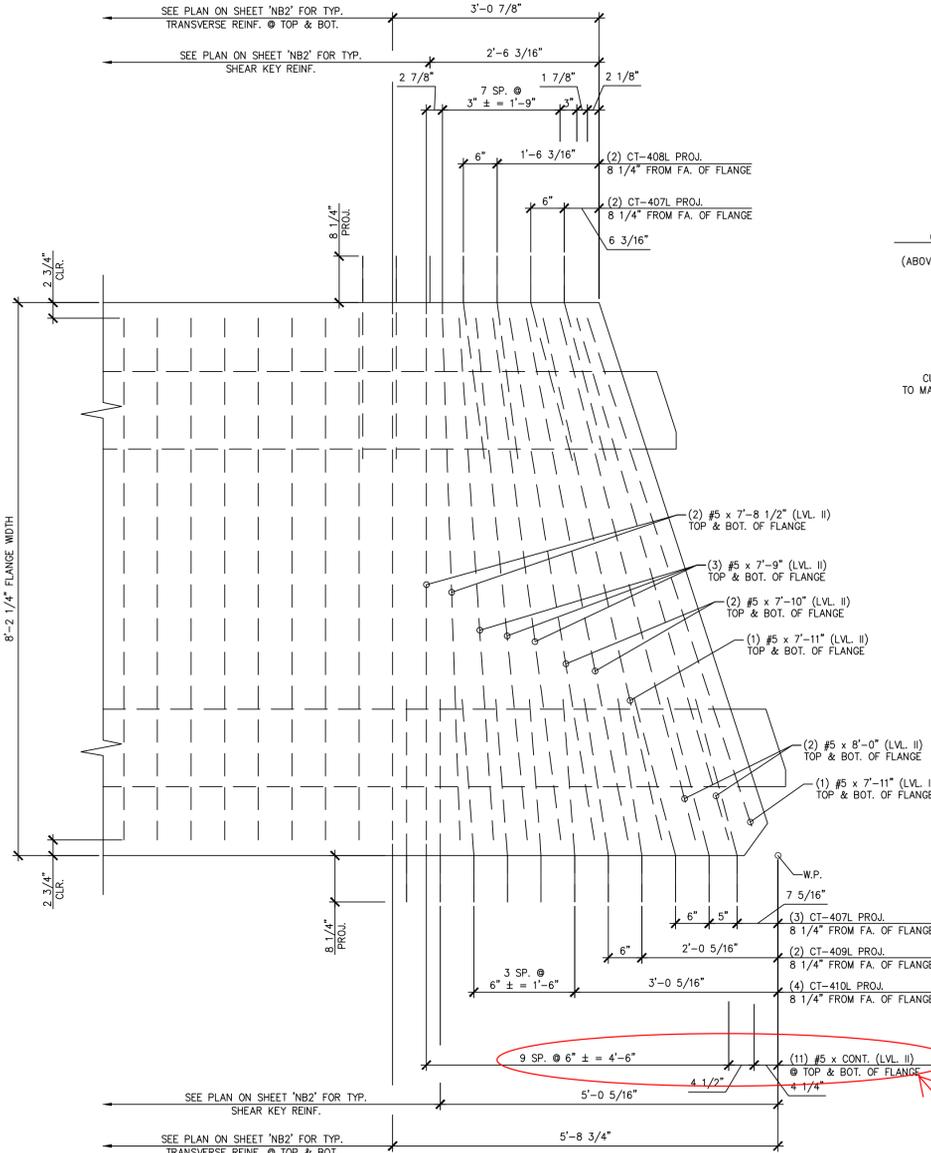
CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION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

40 IDX Drive
Building 100, Suite 200
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802.497.6100
Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

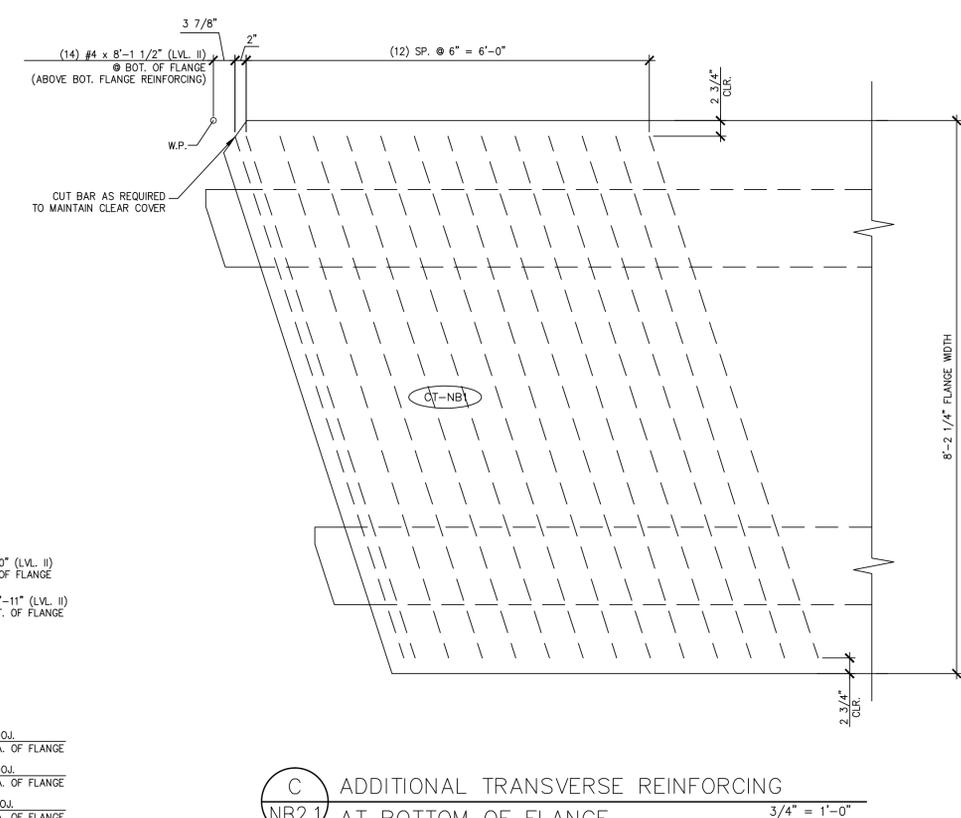
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 17, 2015	
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		SCALE: NOTED	
PRESTRESSED NEXT BEAM DETAILS "CT-NB1"		CHKD: R.M. DFTM: PSS JOB NO: 23456-015	
DWG. NO: NB2			



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

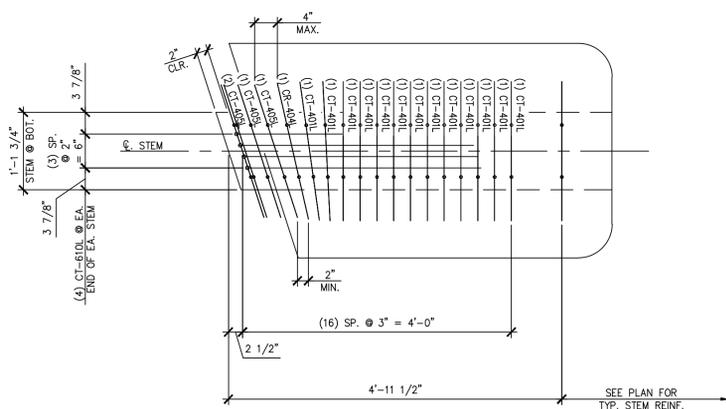


B BEAM END TRANSVERSE/SHEAR KEY REINFORCING
NB2.1 $3/4" = 1'-0"$



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

BARS ARE NOT CONTINUOUS. REMOVE "x CONT." (TYP)



D BEAM END STEM REINFORCING
NB2.1 $3/4" = 1'-0"$

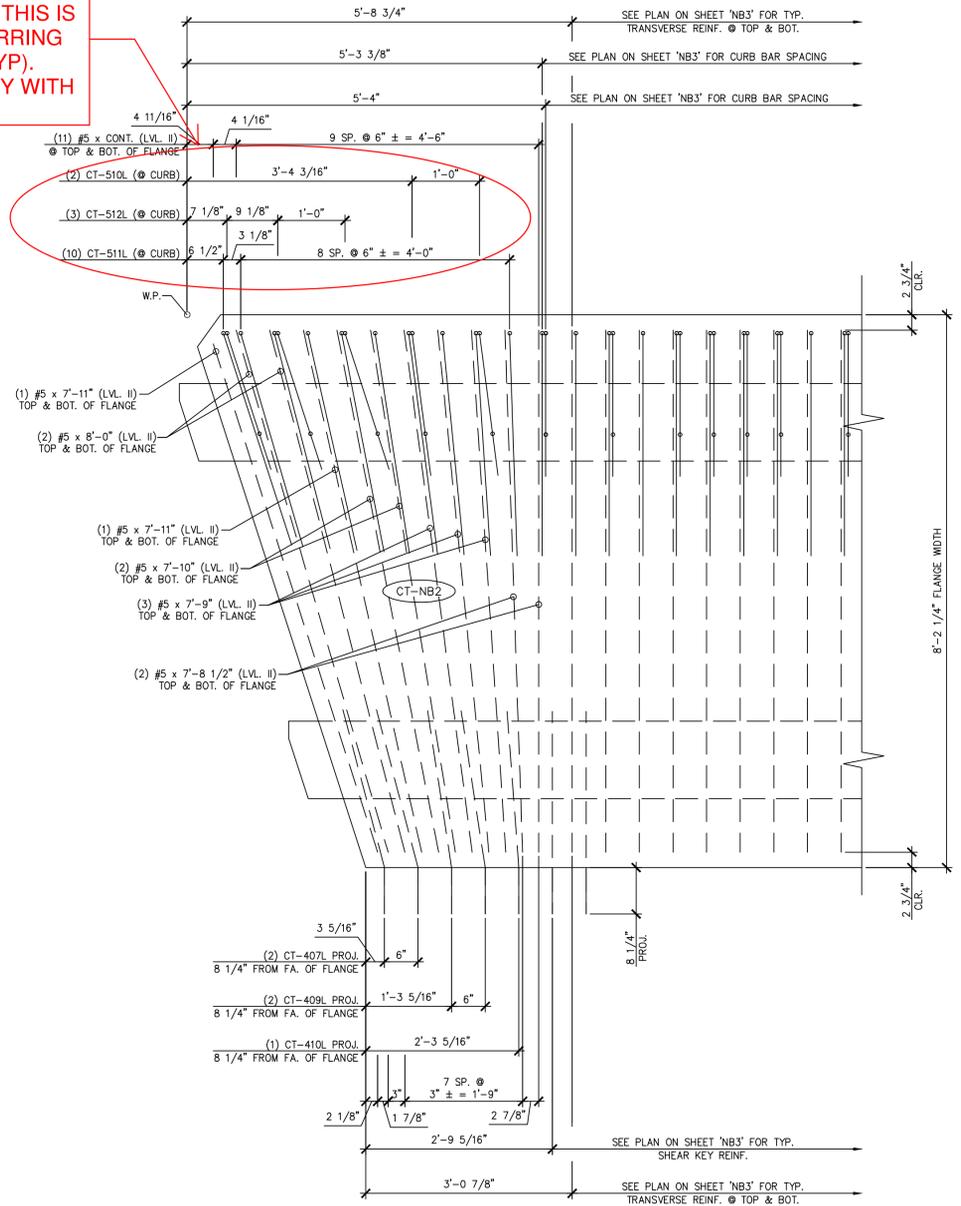
Vermont Agency of Transportation

RECEIVED
ON: **April 27, 2015**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 4/30/15

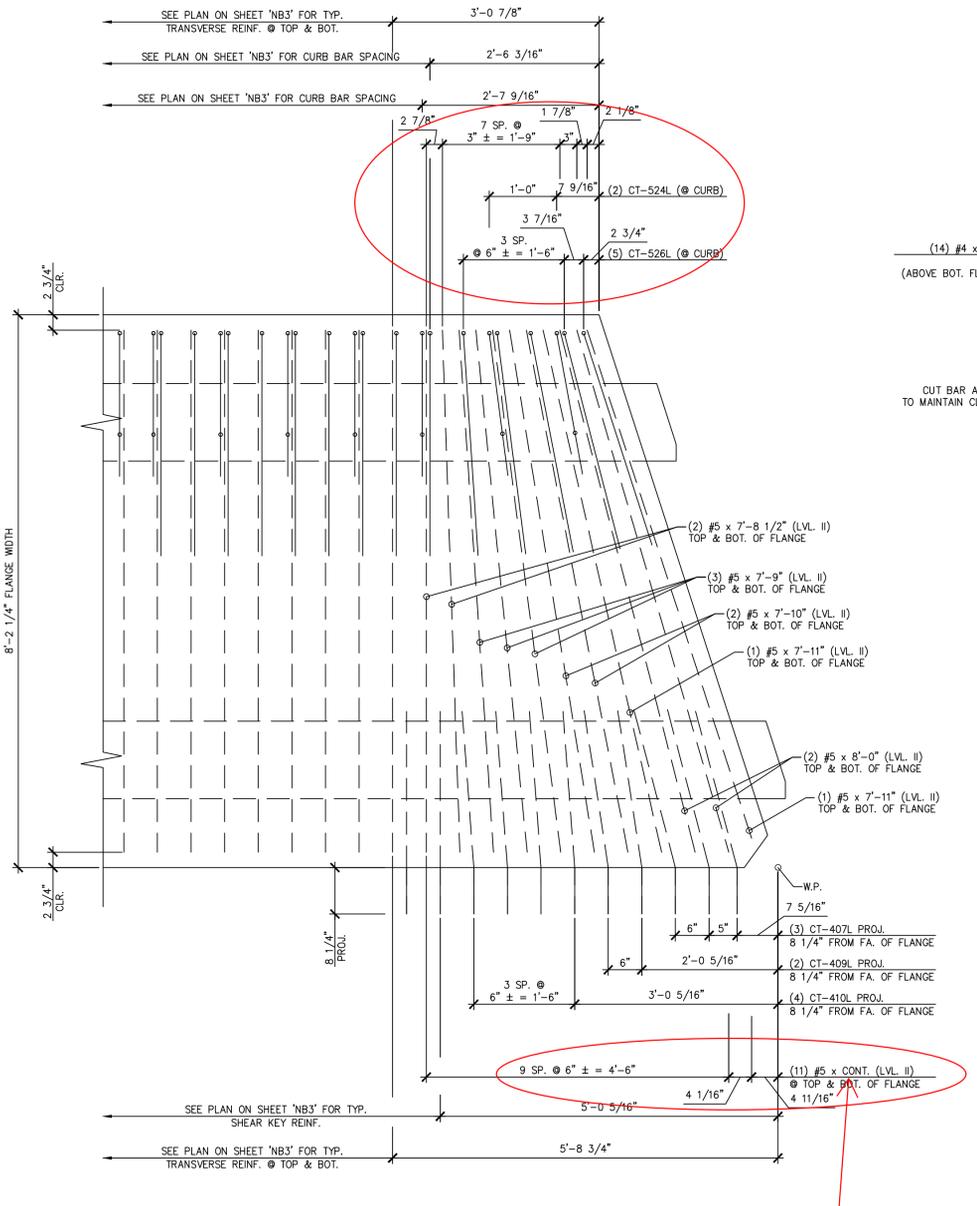
SHOP DRAWING REVIEW	
<input type="checkbox"/> REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.	<input type="checkbox"/> FURNISH AS CORRECTED
<input type="checkbox"/> REJECTED	<input checked="" type="checkbox"/> REVISE AND RESUBMIT
CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.	
40 IDX Drive Building 100, Suite 200 South Burlington, VT 05403 802-487-6300	Job Number: 57632.00 Reviewed By: E.F. LAWES Date: April 30, 2015

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 17, 2015	SCALE: NOTED
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M.	DFTM: PSS
PRESTRESSED NEXT BEAM DETAILS "CT-NB1"		JOB NO: 23456-015	DWG. NO: NB2.1

DIFFICULT TO TELL WHAT BARS THIS IS REFERRING TO (TYP). VERIFY WITH RFI.

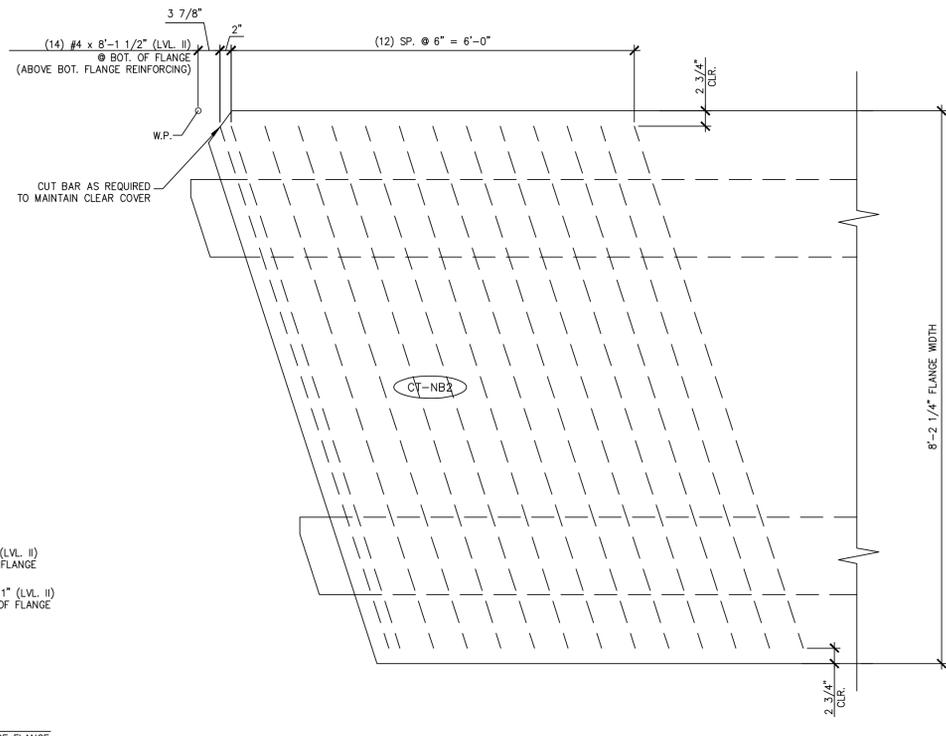


A BEAM END TRANSVERSE/SHEAR KEY/CURB REINFORCING
NB3.1 3/4" = 1'-0"

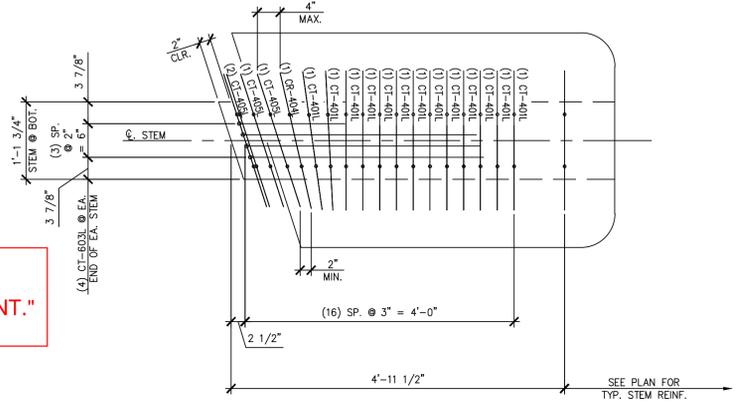


B BEAM END TRANSVERSE/SHEAR KEY/CURB REINFORCING
NB3.1 3/4" = 1'-0"

BARS ARE NOT CONTINUOUS. REMOVE "x CONT." (TYP)



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



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

Vermont Agency of Transportation
RECEIVED
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SUBJECT: REVISE AND RESUBMIT FURNISH AS CORRECTED

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802.497.6100

Job Number: 57632.00
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Precast & Prestress Manufacturer
2464 GSE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

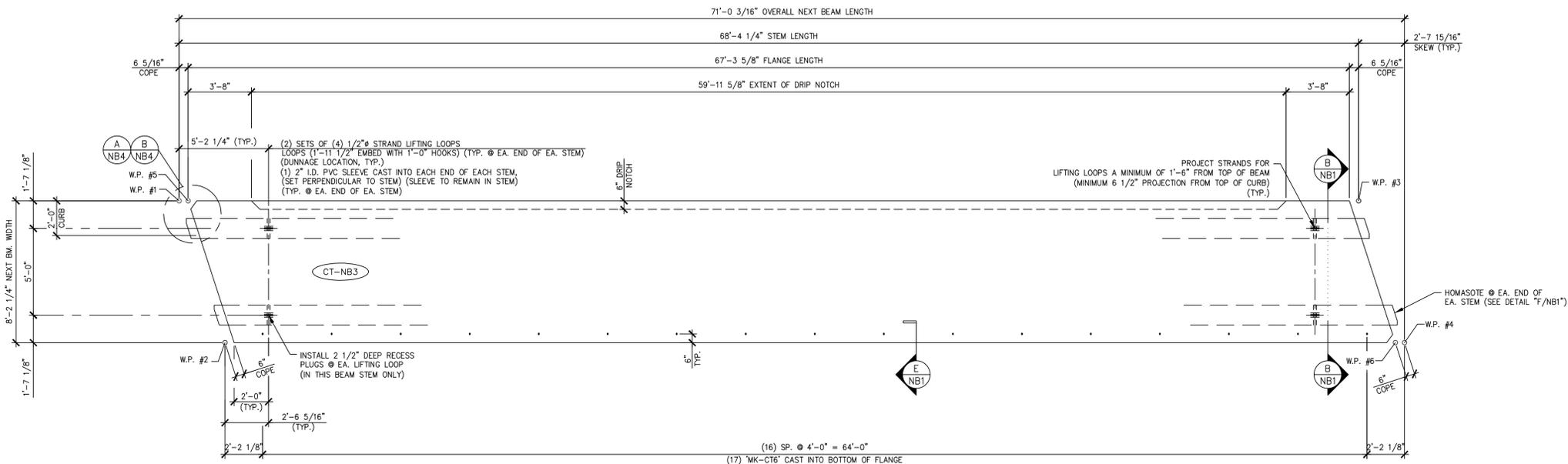
SHULTZ CONSTRUCTION
CONTRACTOR
BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

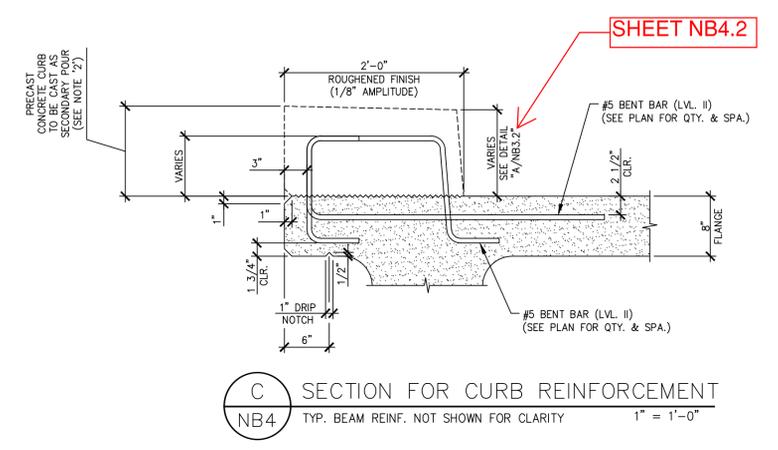
TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 17, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

PRESTRESSED NEXT BEAM DETAILS "CT-NB2" DWG. NO: NB3.1



1 DIMENSIONAL PLAN VIEW IN FORM
NB4 (SEE SHEET 'NB4.2' FOR DETAILS OF PRECAST CONCRETE CURB TO BE CAST AS SECONDARY POUR) 1/4" = 1'-0"

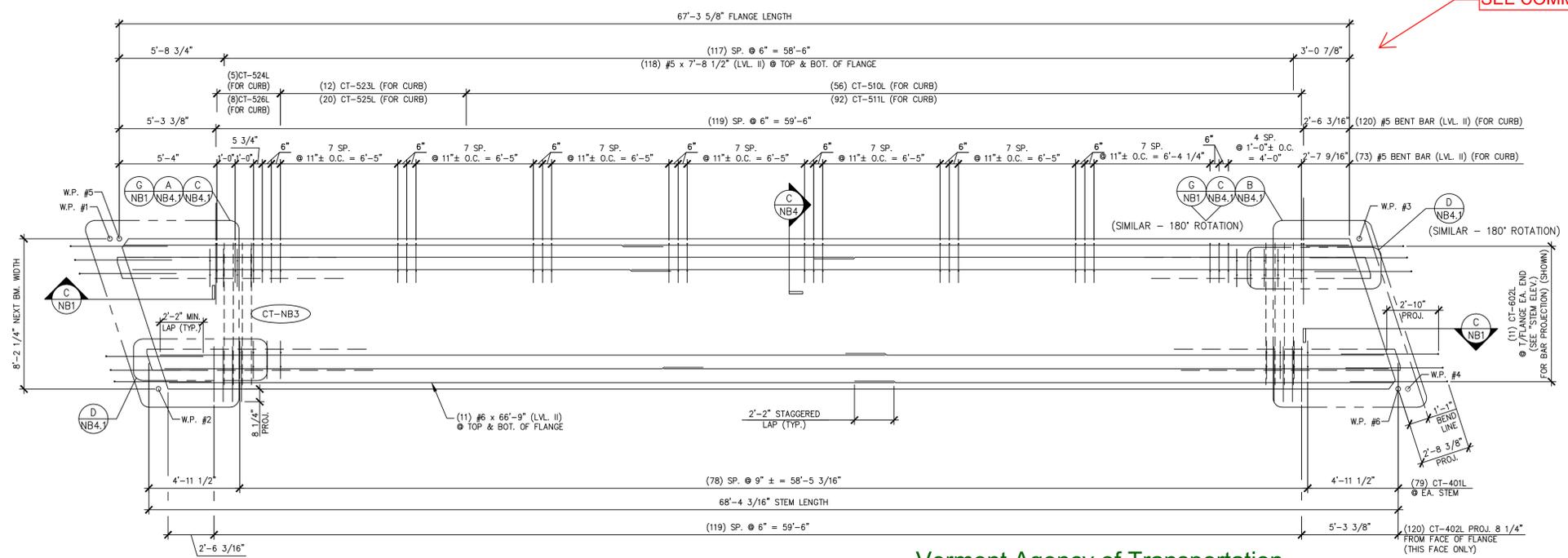


C SECTION FOR CURB REINFORCEMENT
NB4 TYP. BEAM REINF. NOT SHOWN FOR CLARITY 1" = 1'-0"

- SHOP NOTES:**
- TOTAL BEAM WEIGHT INCLUDES THE WEIGHT OF PRECAST CONCRETE CURB TO BE CAST AS A SECONDARY POUR.
 - SEE SHEET 'NB4.2' FOR PRECAST CONCRETE CURB DETAILS TO BE CAST AS A SECONDARY POUR.

MARK: CT-NB3	QTY.: 1	WT.: 56.90 T	VOL.: 28.10 cy
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MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	CT-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	210
2	CT-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	120
3	CT-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	4
4	CT-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
5	CT-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
6	CT-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	5
7	CT-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	28
8	CT-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	58
9	CT-511L	#5 BENT BAR (LEVEL II, DUAL COATED)	97
10	CT-517L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
11	CT-518L	#5 BENT BAR (LEVEL II, DUAL COATED)	4
12	CT-519L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
13	CT-520L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
14	CT-521L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
15	CT-522L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
16	CT-523L	#5 BENT BAR (LEVEL II, DUAL COATED)	12
17	CT-524L	#5 BENT BAR (LEVEL II, DUAL COATED)	7
18	CT-525L	#5 BENT BAR (LEVEL II, DUAL COATED)	20
19	CT-526L	#5 BENT BAR (LEVEL II, DUAL COATED)	18
20	CT-527L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
21	CT-602L	#6 BENT BAR (LEVEL II, DUAL COATED)	22
22	CT-610L	#6 BENT BAR (LEVEL II, DUAL COATED)	16
23			
24			
25		#4 x 8'-1 1/2" (LEVEL II, DUAL COATED)	28
26		#5 x 7'-8 1/2" (LEVEL II, DUAL COATED)	244
27		#5 x 7'-9" (LEVEL II, DUAL COATED)	12
28		#5 x 7'-10" (LEVEL II, DUAL COATED)	8
29		#5 x 7'-11" (LEVEL II, DUAL COATED)	8
30		#5 x 8'-0" (LEVEL II, DUAL COATED)	8
31		#6 x 66'-9" (W/ (1) 2'-2" STAGGERED LAP) (40' + 28'-11") (LVL. II, DUAL COATED)	22
32		#5 x 66'-9" (W/ (1) 2'-2" STAGGERED LAP) (40' + 28'-11") (LVL. II, DUAL COATED)	3
33			
34		2" I.D. PVC SLEEVE	4
35		SET OF (4) 1/2" x 270 KSI STRAND LIFTING LOOPS	4
36		GUARD RAIL ANCHOR PLATE (GALV.) (SUPPLIED BY OTHERS)	8
37	MK-CT16	DAYTON B-16 1/2" x 3" LONG COIL LOOP INSERTS (ELECTROPLATED GALV.)	17
38			
39			



2 REINFORCING PLAN VIEW IN FORM
NB4 (SEE SHEET 'NB4.2' FOR ADDITIONAL PRECAST CONCRETE CURB REINFORCEMENT) 1/4" = 1'-0"



A ACUTE CORNER BLOCKOUT DETAIL
NB4 (FOR FLANGE) 1/2" = 1'-0"



B ACUTE CORNER BLOCKOUT DETAIL
NB4 (FOR STEM) 1/2" = 1'-0"

Vermont Agency of Transportation
RECEIVED
ON: April 27, 2015
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CONFORMANCE
BY: Jennifer Fitch DATE: 4/30/15

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.

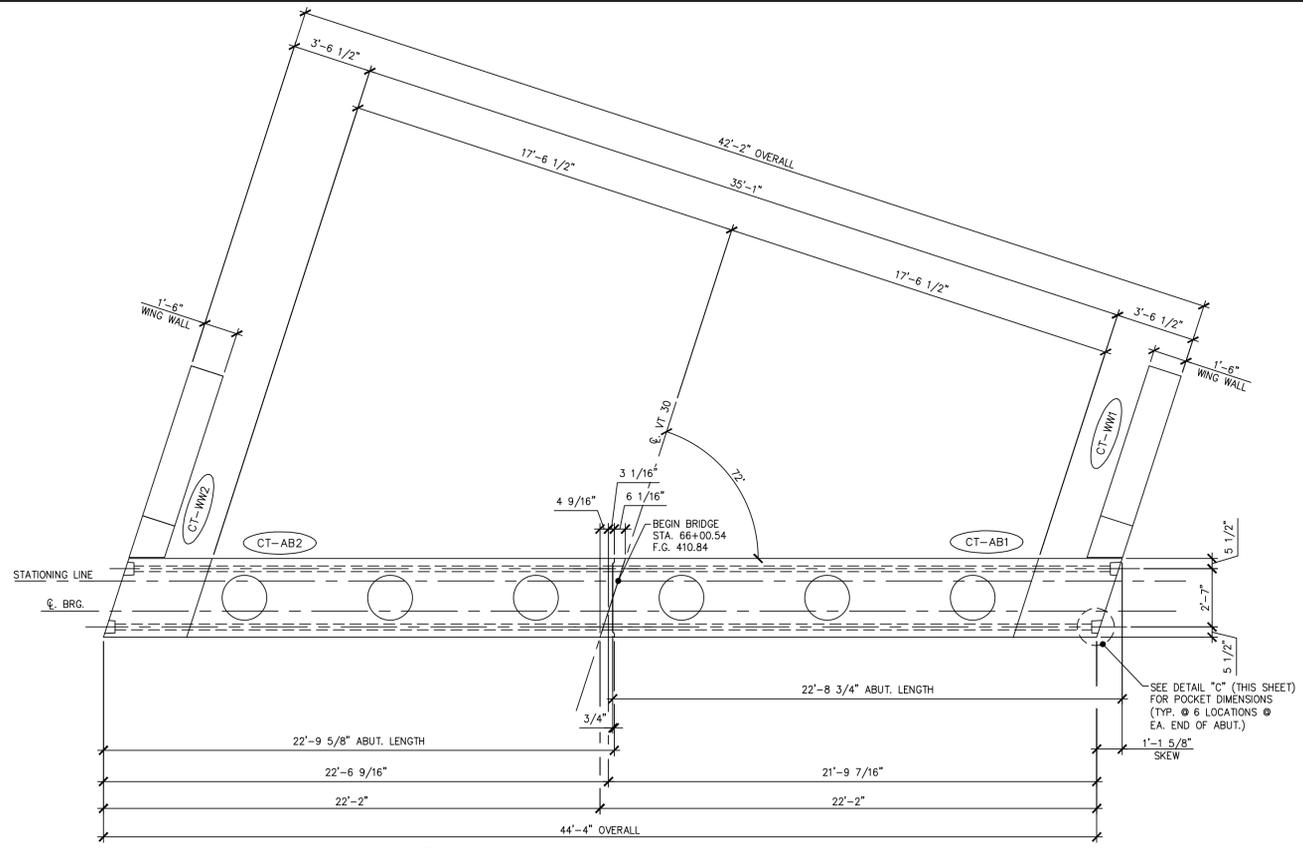
REJECTED REVISE AND RESUBMIT FINISH AS CORRECTED

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

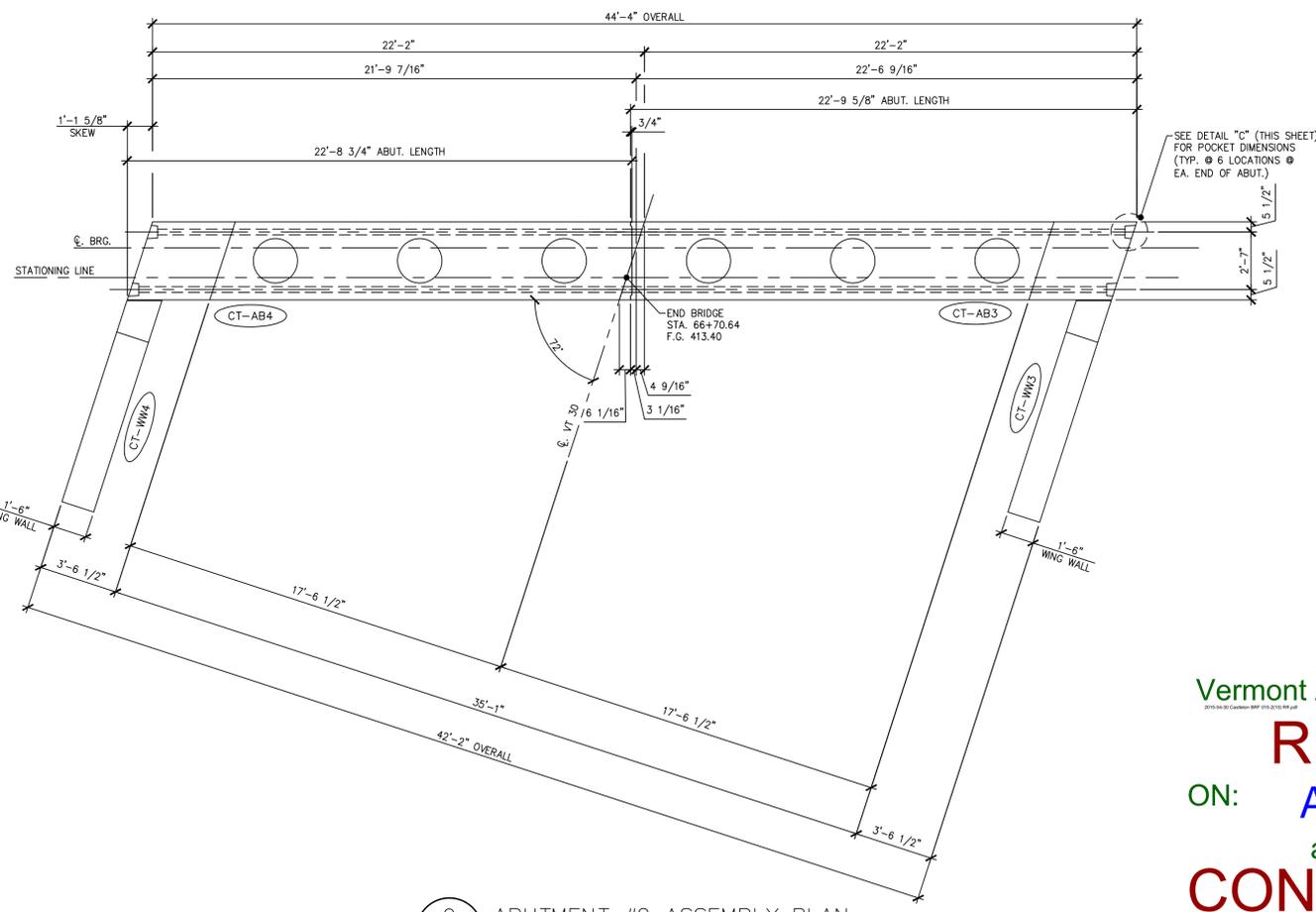
40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
802.457.6100

Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

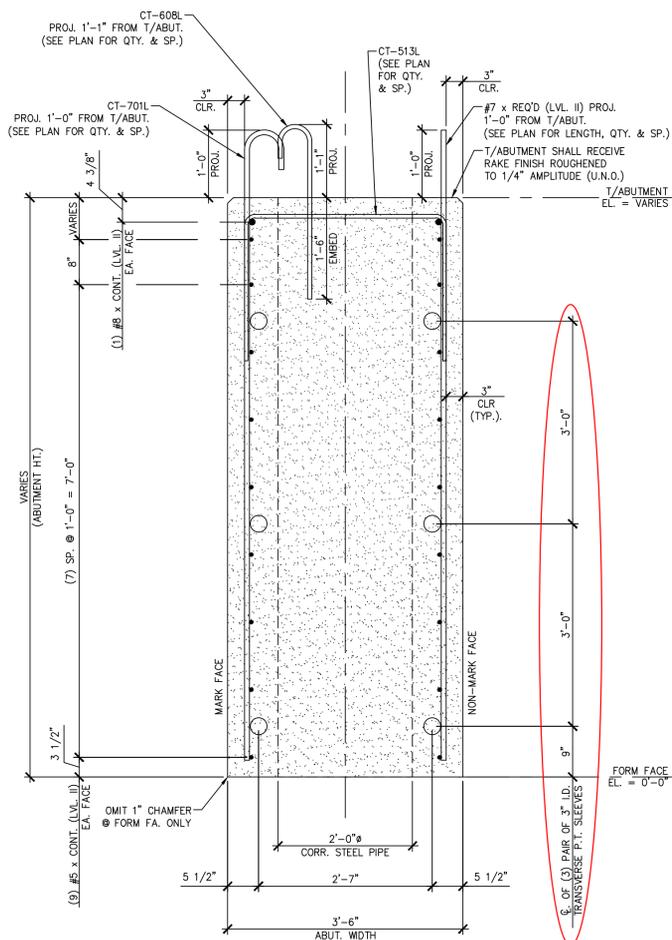
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GSE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND	DATE: APR. 17, 2015 SCALE: NOTED
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)	CHKD: R.M. DFTM: PSS JOB NO: 23456-015
PRESTRESSED NEXT BEAM DETAILS "CT-NB3" DWG. NO: NB4	



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

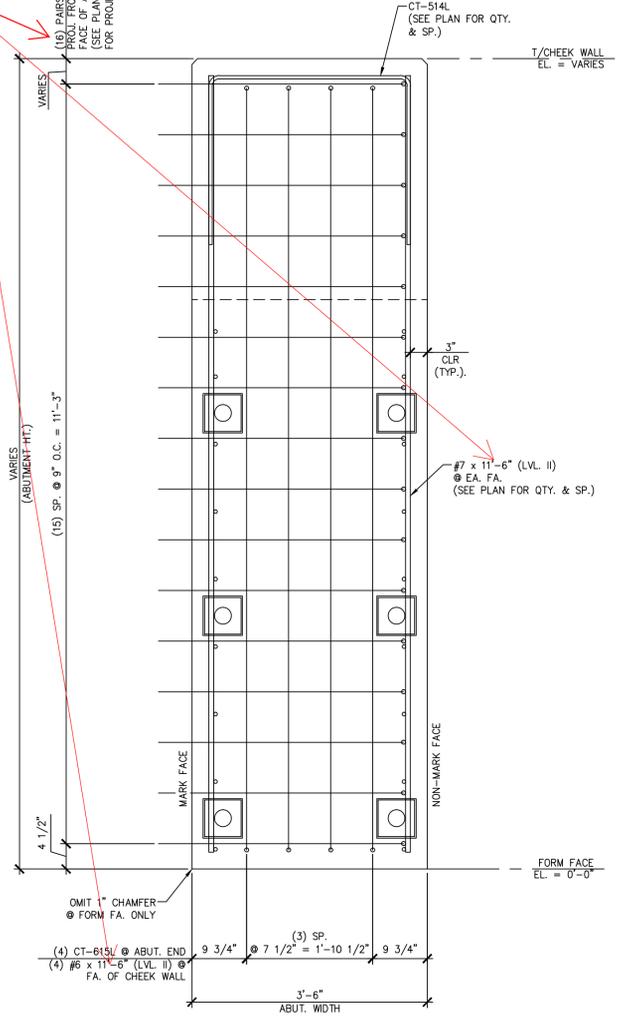


2 ABUTMENT #2 ASSEMBLY PLAN
1/4" = 1'-0"



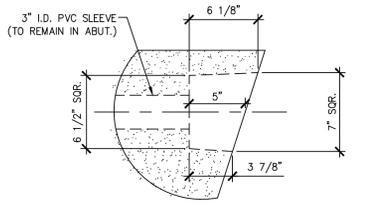
A ABUTMENT SECTION
3/4" = 1'-0"

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



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

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



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

DEPENDS WHICH CHEEKWALL.

Vermont Agency of Transportation

RECEIVED

ON: **April 27, 2015**

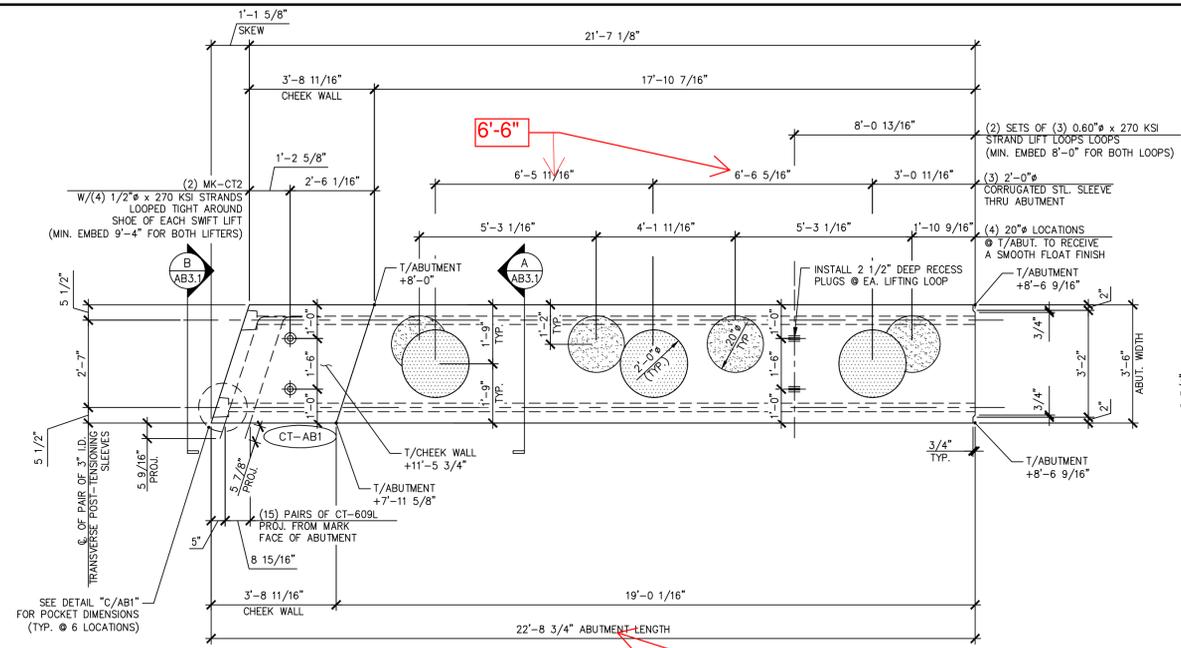
and Checked for

CONFORMANCE

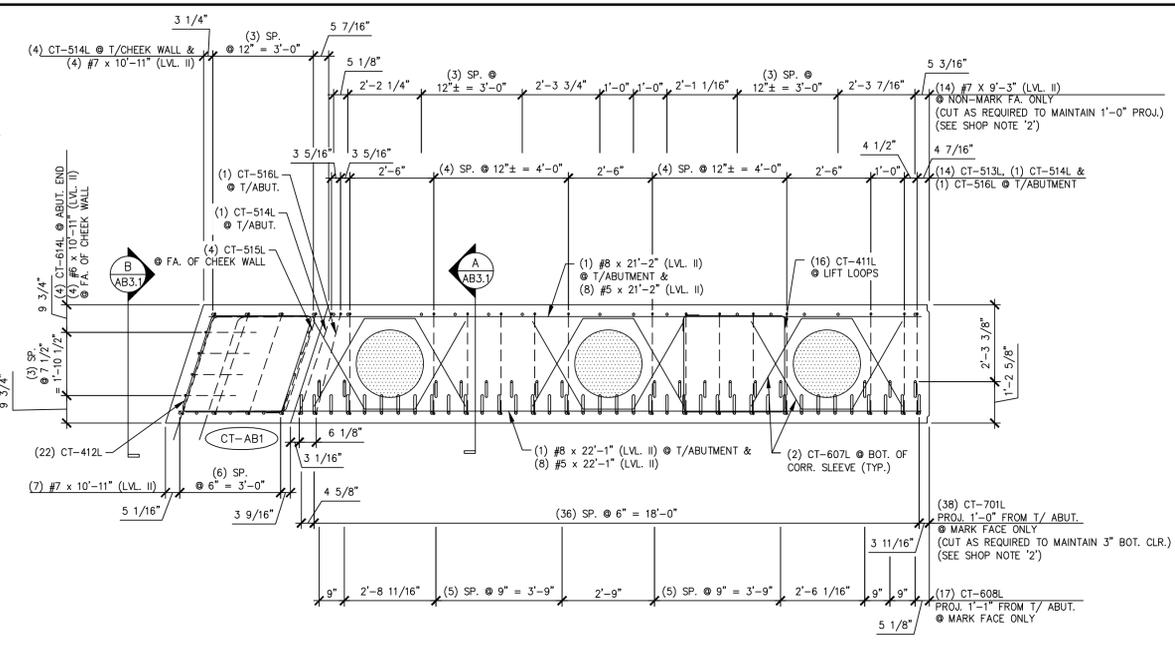
BY: **Jennifer Fitch** DATE: **4/30/15**

SHOP DRAWING REVIEW	
<input type="checkbox"/> REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.	<input type="checkbox"/> FINISH AS CORRECTED
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40 IDX Drive Building 100, Suite 200 South Burlington, VT 05403 802.497.6100	Job Number: 57632.00 Reviewed By: E.F. LAWES Date: April 30, 2015

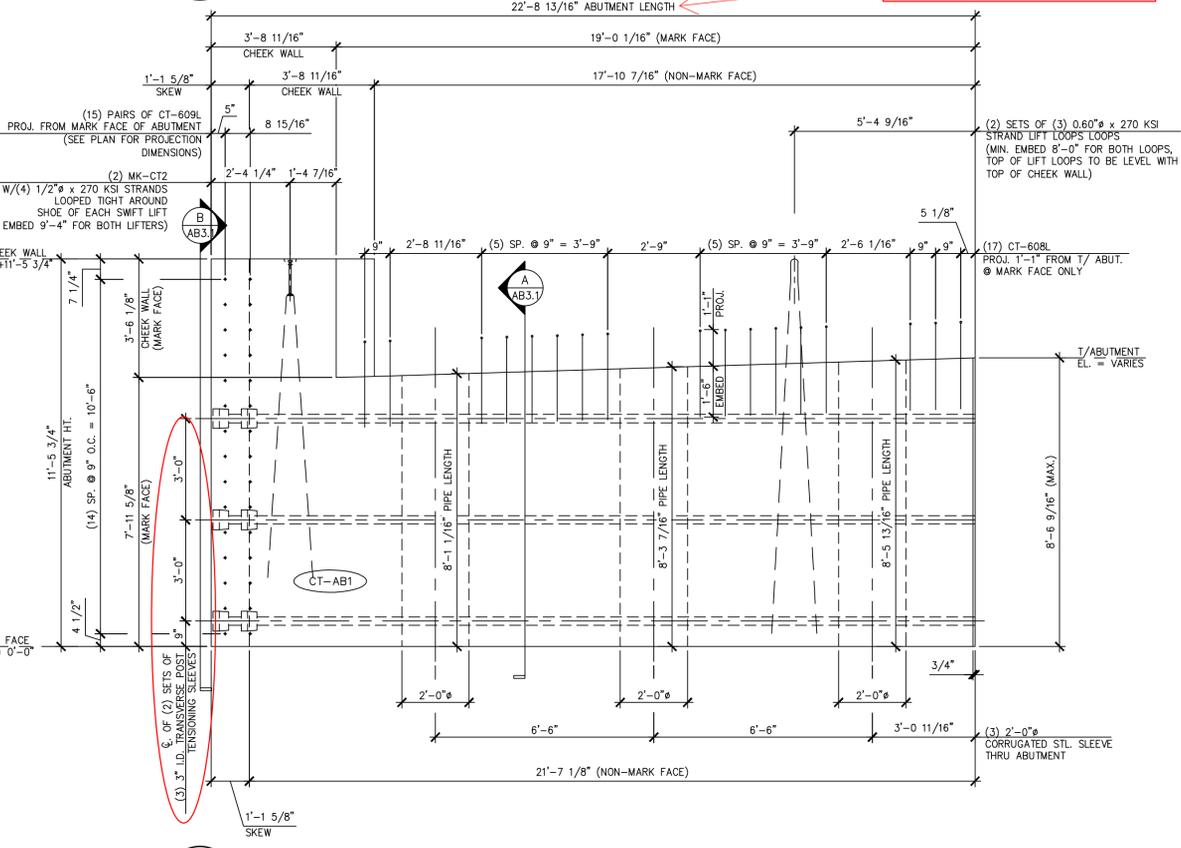
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 17, 2015 SCALE: NOTED	
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M. DFTM: PSS JOB NO: 23456-015	
PRECAST ABUTMENT PLAN, SECTION & DETAILS		DWG. NO: AB1	



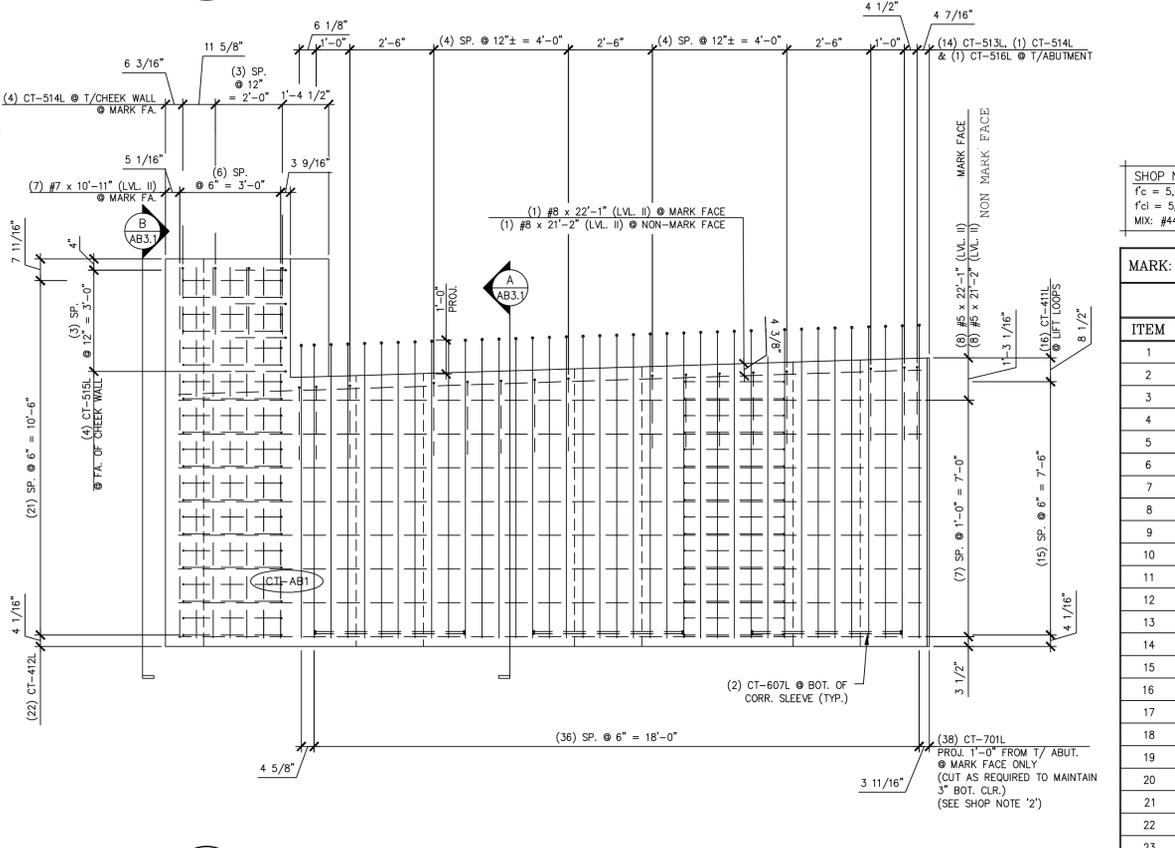
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
AB3
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
AB3
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEVATION
AB3
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEVATION
AB3
3/8" = 1'-0"

THESE SHOULD MATCH.

- SHOP NOTES:
- ALL EDGES OF ABUTMENT SHALL RECEIVE A 1" CHAMFER (U.N.O.)
 - ENDS OF CUT BARS SHALL BE COATED WITH TOUCH UP PRODUCT SUPPLIED BY THE REBAR MANUFACTURER.

SHOP NOTE:
f_c = 5,000 PSI
f_c = 5,000 PSI
MIX: #445M-NO DC

MARK: CT-AB1 QTY.: 1 WT.: 45.34 T VOL.: 22.39 cy

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	CT-701L	#7 BENT BAR (LEVEL II, DUAL COATED)	38
2	CT-607L	#6 BENT BAR (LEVEL II, DUAL COATED)	6
3	CT-608L	#6 BENT BAR (LEVEL II, DUAL COATED)	17
4	CT-609L	#6 BENT BAR (LEVEL II, DUAL COATED)	30
5	CT-614L	#6 BENT BAR (LEVEL II, DUAL COATED)	4
6	CT-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	14
7	CT-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	5
8	CT-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	4
9	CT-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
10	CT-411L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
11	CT-412L	#4 BENT BAR (LEVEL II, DUAL COATED)	22
12		#8 x 22'-1" (LEVEL II, DUAL COATED)	1
13		#8 x 21'-2" (LEVEL II, DUAL COATED)	1
14		#7 x 10'-11" (LEVEL II, DUAL COATED)	11
15		#7 x 9'-3" (LEVEL II, DUAL COATED)	14
16		#6 x 10'-11" (LEVEL II, DUAL COATED)	4
17		#5 x 22'-1" (LEVEL II, DUAL COATED)	8
18		#5 x 21'-2" (LEVEL II, DUAL COATED)	8
19		2'-0" x 8'-5 13/16" CORRUGATED STEEL PIPE (GALV.)	1
20		2'-0" x 8'-3 7/16" CORRUGATED STEEL PIPE (GALV.)	1
21		2'-0" x 8'-1 1/16" CORRUGATED STEEL PIPE (GALV.)	1
22			
23	MK-CT2	20T x 19 3/4" SWIFT LIFT LIFTER	2
24		SET OF (3) 0.60" STRAND LIFTING LOOPS	2
25		SET OF (4) 1/2" STRANDS	2
26			

Vermont Agency of Transportation
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BY: Jennifer Fitch DATE: 4/30/15

SHOP DRAWING REVIEW

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REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
802.497.6100

Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

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

SHULTZ CONSTRUCTION
CONTRACTOR
BALLSTON SPA, NY

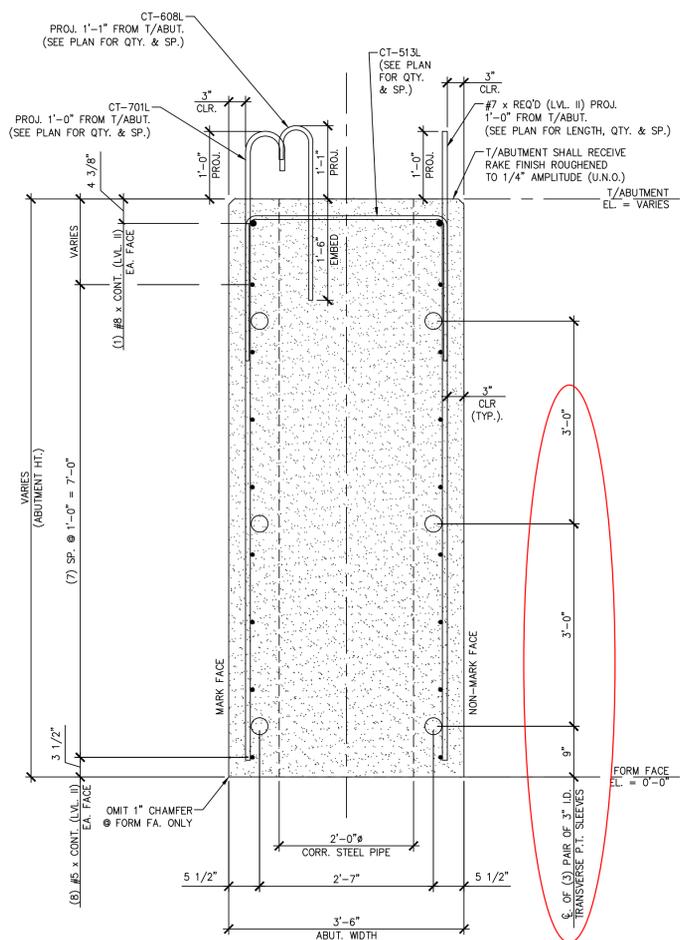
STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 17, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

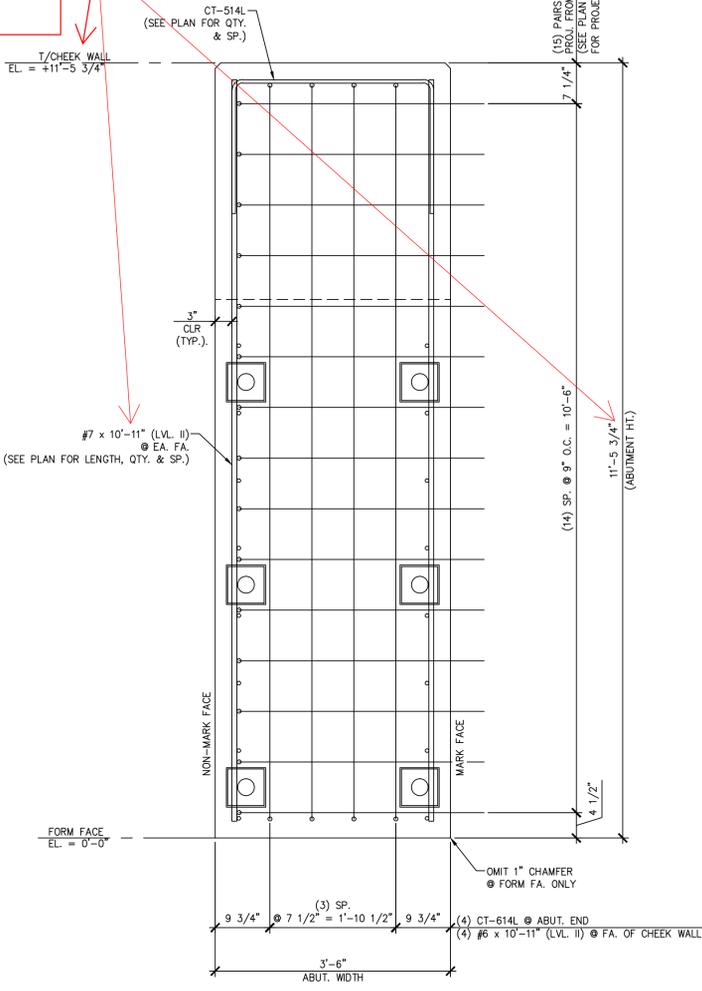
PRECAST ABUTMENT DETAILS "CT-AB1" DWG. NO: AB3

VERIFY - DEPENDS WHICH CHEEKWALL. SECTION "B" IS LABELED ON CT-AB2, CT-AB1, AND CT-AB3. THE HEIGHTS AT THE CHEEKWALLS VARY BY OVER 6".



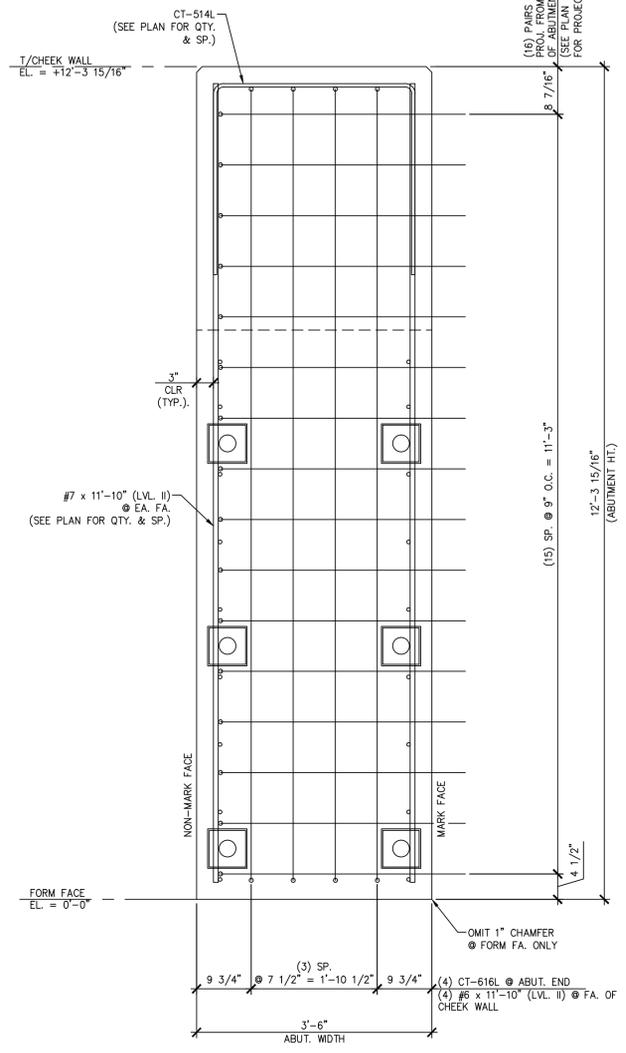
A ABUTMENT SECTION
AB3.1 3/4" = 1'-0"

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



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

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



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

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

Vermont Agency of Transportation

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BY: **Jennifer Fitch** DATE: **4/30/15**

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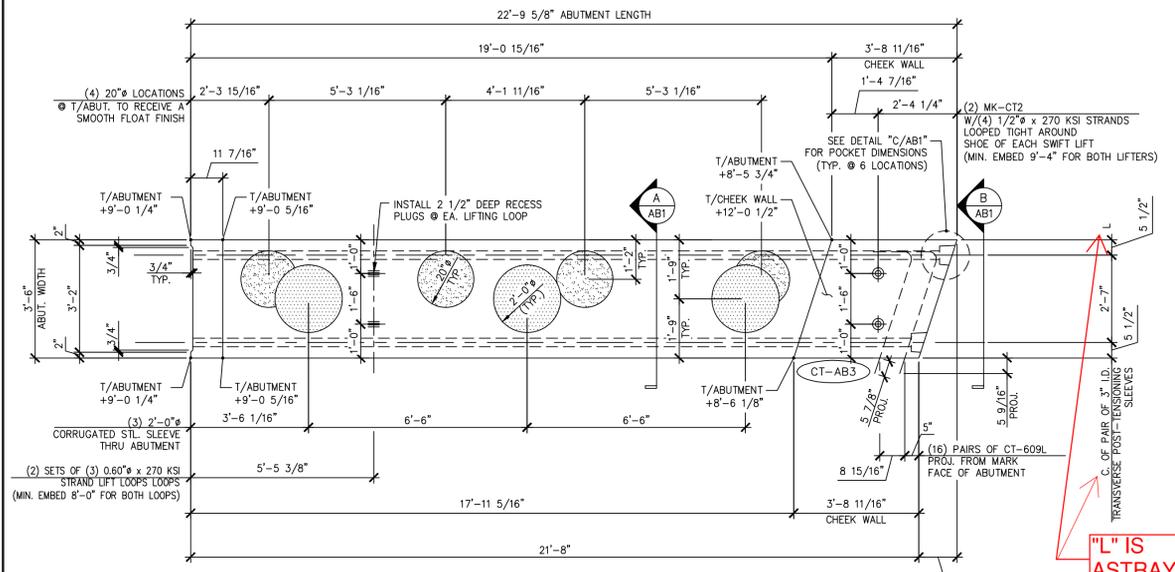
SUBJECT TO REVISION AND RESUBMIT FURNISH AS CORRECTED

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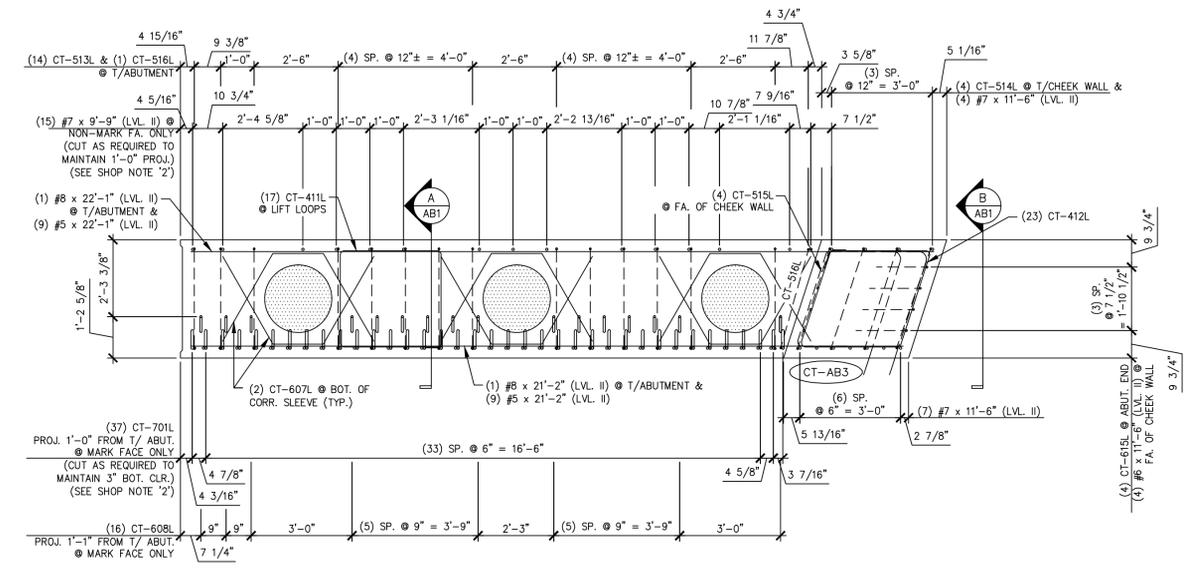
40 IDX Drive
Building 300, Suite 200
South Burlington, VT 05403
802.497.6100

Job Number: 57632.00
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Date: April 30, 2015

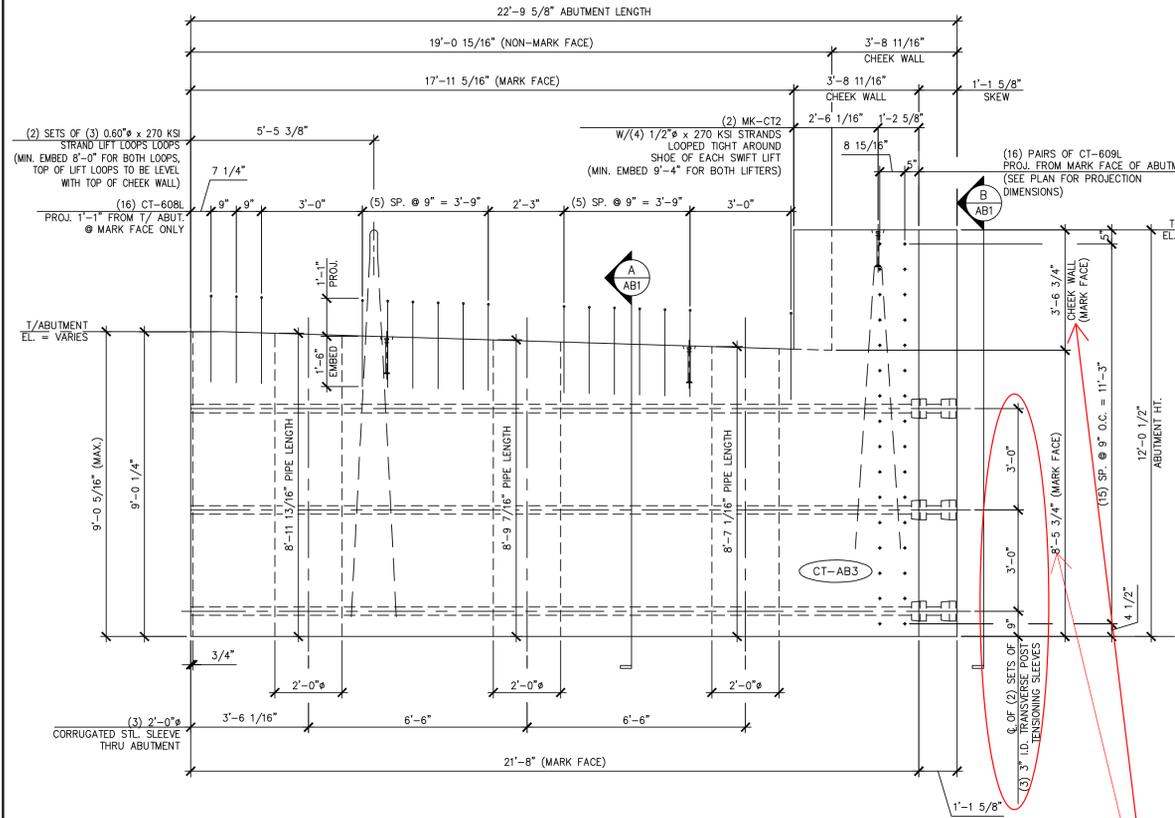
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 17, 2015	SCALE: NOTED
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M.	DFTM: PSS
PRECAST ABUTMENT DETAILS "CT-AB1" & "CT-AB4"		JOB NO: 23456-015	DWG. NO: AB3.1



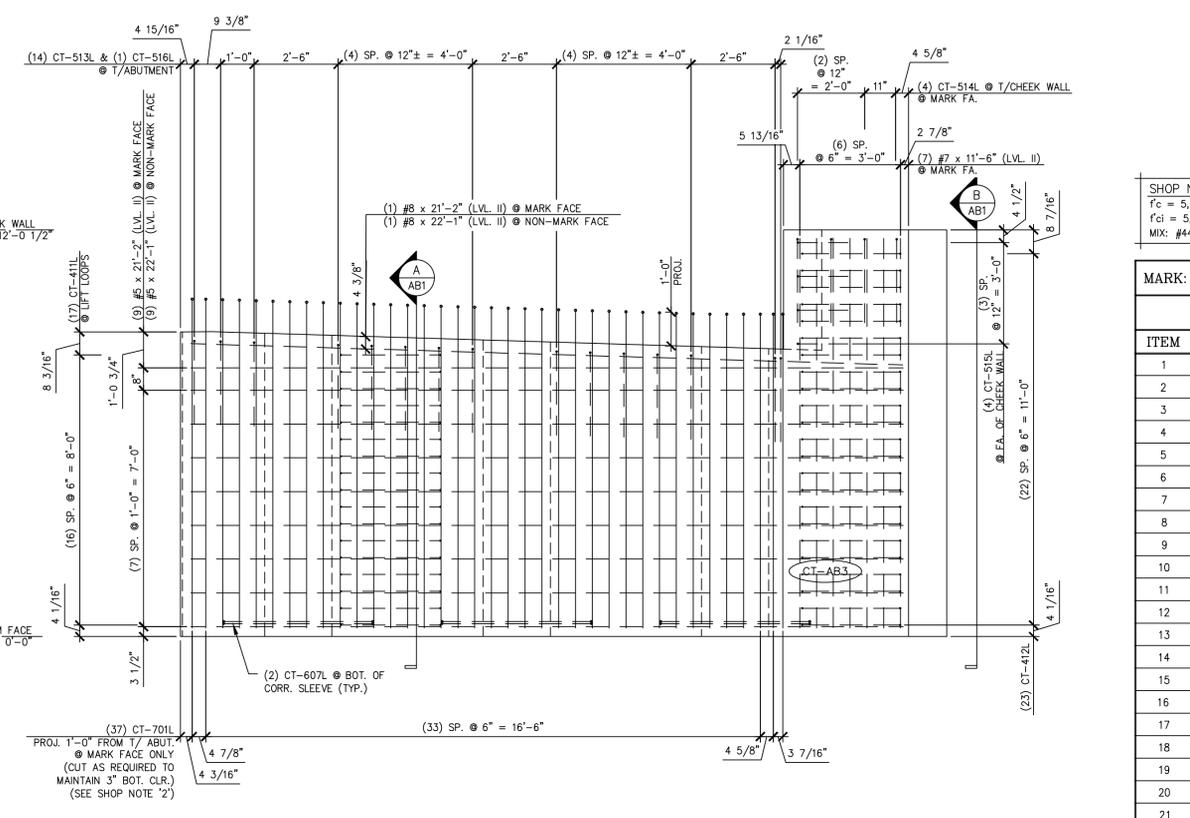
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
AB4
3/8" = 1'-0"



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



2 ABUTMENT DIMENSIONAL MARK FACE ELEVATION
AB4
(ONLY CT-608L PROJECTING BARS SHOWN. ALL OTHER PROJECTING BARS ARE NOT SHOWN HERE FOR CLARITY. SEE DETAILS "A/AB1" AND "A/AB2" FOR ADDITIONAL PROJECTING BARS.)
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEVATION
AB4
(ONLY #7 PROJECTING BARS (LVL. II) SHOWN. ALL OTHER PROJECTING BARS ARE NOT SHOWN HERE FOR CLARITY. SEE DETAILS "A/AB1" AND "A/AB2" FOR ADDITIONAL PROJECTING BARS.)
3/8" = 1'-0"

"L" IS ASTRAY.

THESE DIMENSIONS ARE FOR THE "NON-MARK" FACE.

Vermont Agency of Transportation
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BY: Jennifer Fitch DATE: 4/30/15

SHOP NOTES:
1. ALL EDGES OF ABUTMENT SHALL RECEIVE A 1" CHAMFER (U.N.O.)
2. ENDS OF CUT BARS SHALL BE COATED WITH TOUCH UP PRODUCT SUPPLIED BY THE REBAR MANUFACTURER.

MARK: CT-AB3 QTY.: 1 WT.: 48.10 T VOL.: 23.75 cy

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	CT-701L	#7 BENT BAR (LEVEL II, DUAL COATED)	37
2	CT-607L	#6 BENT BAR (LEVEL II, DUAL COATED)	6
3	CT-608L	#6 BENT BAR (LEVEL II, DUAL COATED)	16
4	CT-609L	#6 BENT BAR (LEVEL II, DUAL COATED)	32
5	CT-615L	#6 BENT BAR (LEVEL II, DUAL COATED)	4
6	CT-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	14
7	CT-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	4
8	CT-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	4
9	CT-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
10	CT-411L	#4 BENT BAR (LEVEL II, DUAL COATED)	17
11	CT-412L	#4 BENT BAR (LEVEL II, DUAL COATED)	23
12			
13		#8 x 22'-1" (LEVEL II, DUAL COATED)	1
14		#8 x 21'-2" (LEVEL II, DUAL COATED)	1
15		#7 x 11'-6" (LEVEL II, DUAL COATED)	11
16		#7 x 9'-9" (LEVEL II, DUAL COATED)	15
17		#6 x 11'-6" (LEVEL II, DUAL COATED)	4
18		#5 x 22'-1" (LEVEL II, DUAL COATED)	9
19		#5 x 21'-2" (LEVEL II, DUAL COATED)	9
20		2'-0" x 8'-7 1/16" CORRUGATED STEEL PIPE (GALV.)	1
21		2'-0" x 8'-9 7/16" CORRUGATED STEEL PIPE (GALV.)	1
22		2'-0" x 8'-11 13/16" CORRUGATED STEEL PIPE (GALV.)	1
23	MK-CT2	20T x 19 3/4" SWIFT LIFT LIFTER	2
24		SET OF (3) 0.60" x 270 KSI STRAND LIFTING LOOPS	2
25		SET OF (4) 1/2" STRANDS	2

SHOP DRAWING REVIEW

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40 IDX Drive
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J.P. CARRARA & SONS INC.
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2464 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

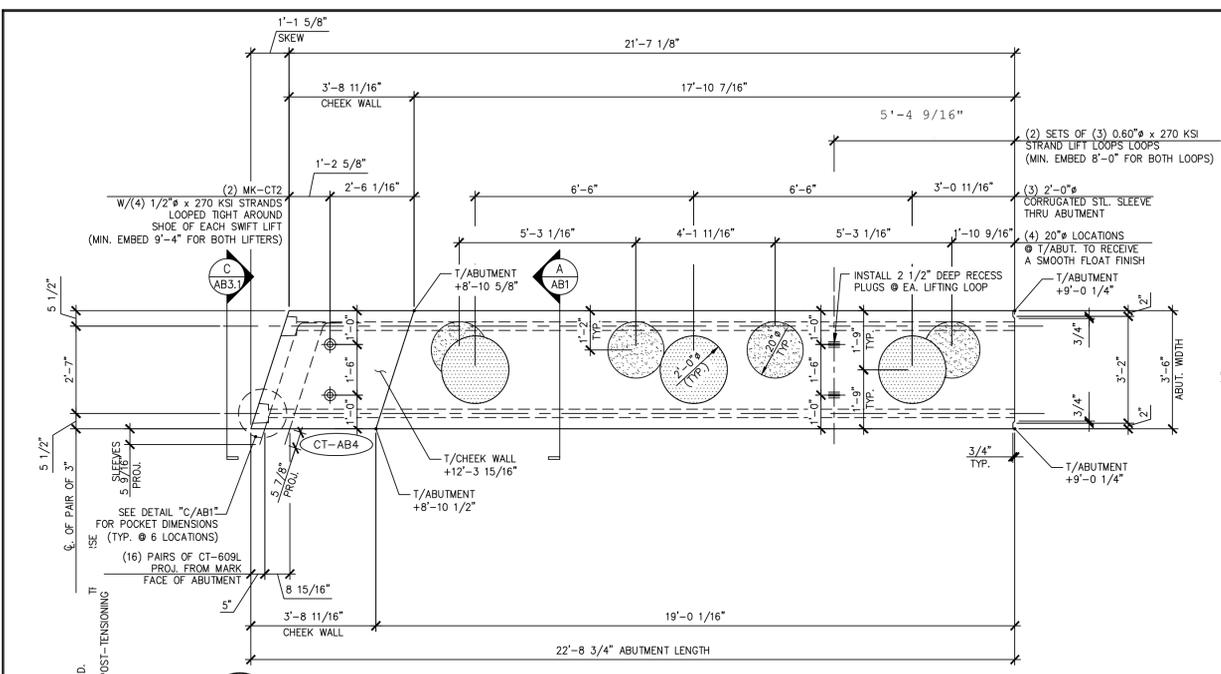
SHULTZ CONSTRUCTION
CONTRACTOR
BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

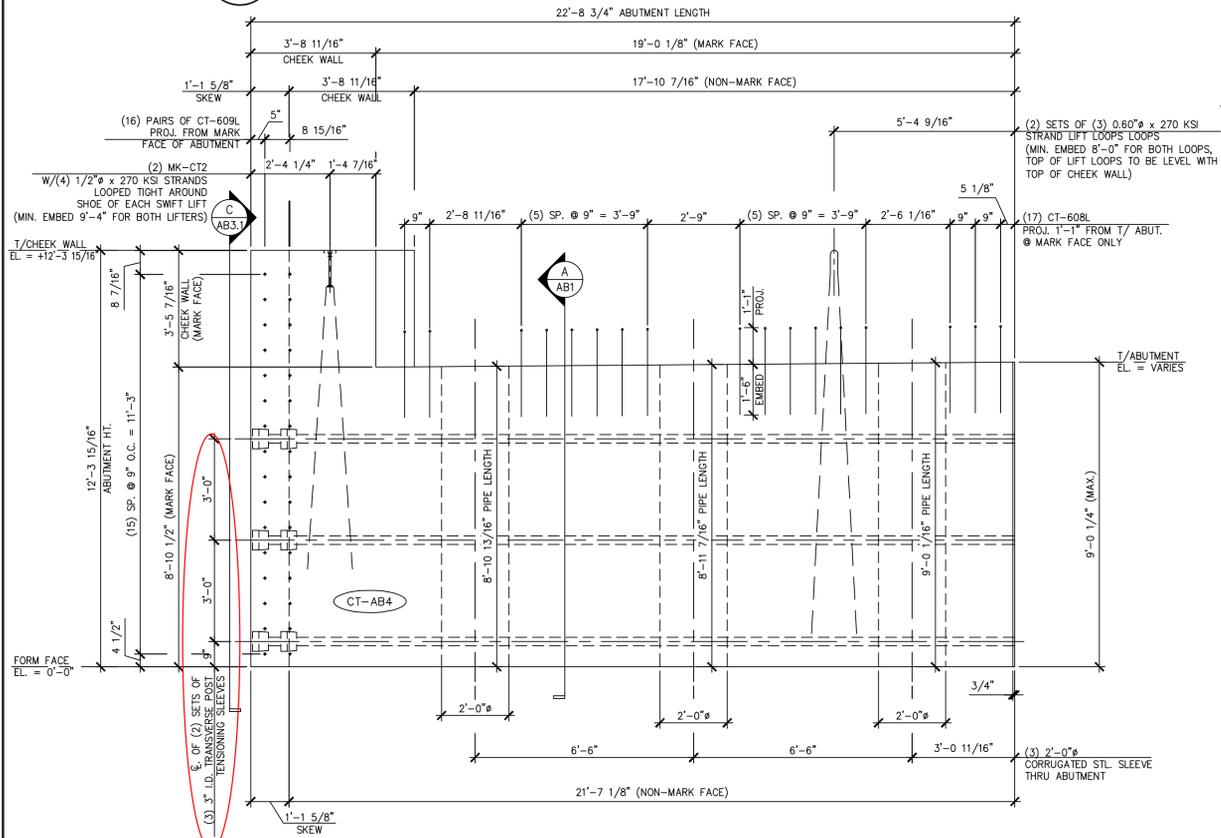
TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 17, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

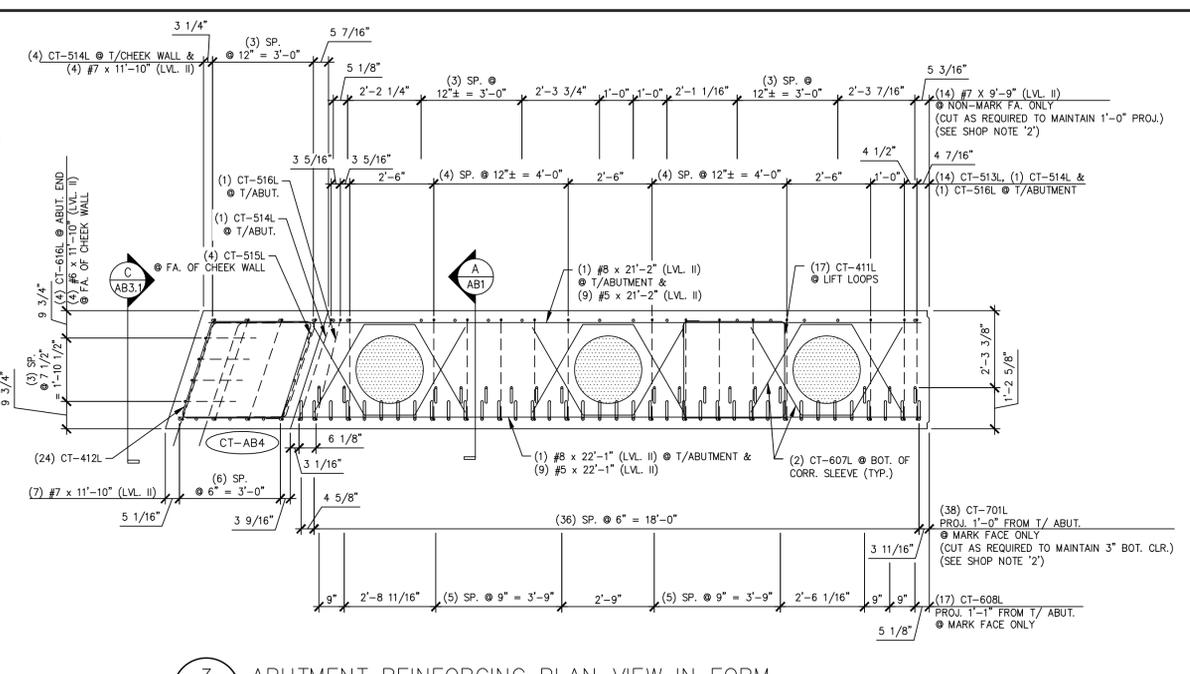
PRECAST ABUTMENT DETAILS
DWG. NO: AB4



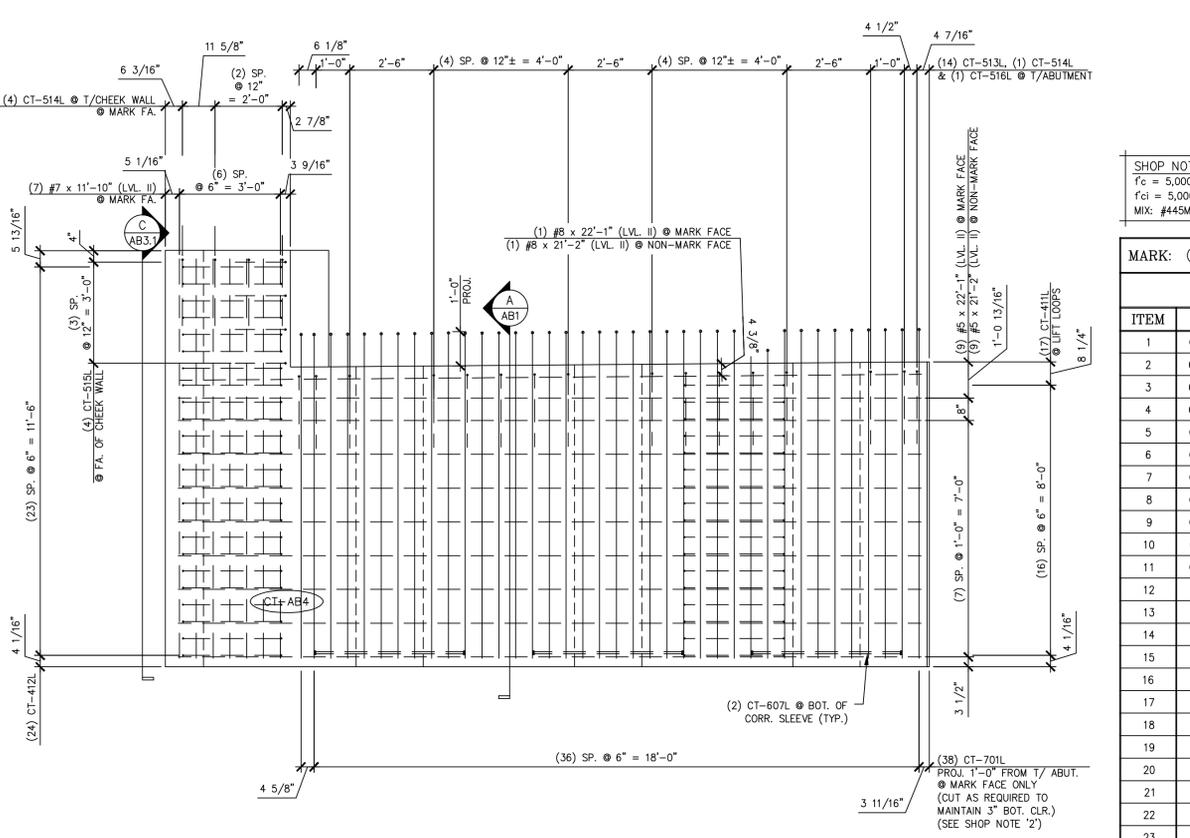
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



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



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



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

SHOP NOTES:
1. ALL EDGES OF ABUTMENT SHALL RECEIVE A 1" CHAMFER (U.N.O.)
2. ENDS OF CUT BARS SHALL BE COATED WITH TOUCH UP PRODUCT SUPPLIED BY THE REBAR MANUFACTURER.

SHOP NOTE:
f_c = 5,000 PSI
f_c = 5,000 PSI
MIX: #445M-NO DCI

MARK: CT-AB4	QTY.: 1	WT.: 49.05 T	VOL.: 24.22 cy
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MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	CT-701L	#7 BENT BAR (LEVEL II, DUAL COATED)	38
2	CT-607L	#6 BENT BAR (LEVEL II, DUAL COATED)	6
3	CT-608L	#6 BENT BAR (LEVEL II, DUAL COATED)	17
4	CT-609L	#6 BENT BAR (LEVEL II, DUAL COATED)	32
5	CT-616L	#6 BENT BAR (LEVEL II, DUAL COATED)	4
6	CT-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	14
7	CT-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	5
8	CT-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	4
9	CT-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
10	CT-411L	#4 BENT BAR (LEVEL II, DUAL COATED)	17
11	CT-412L	#4 BENT BAR (LEVEL II, DUAL COATED)	24
12			
13		#8 x 22'-1" (LEVEL II, DUAL COATED)	1
14		#8 x 21'-2" (LEVEL II, DUAL COATED)	1
15		#7 x 11'-10" (LEVEL II, DUAL COATED)	11
16		#7 x 9'-9" (LEVEL II, DUAL COATED)	14
17		#6 x 11'-10" (LEVEL II, DUAL COATED)	4
18		#5 x 22'-1" (LEVEL II, DUAL COATED)	9
19		#5 x 21'-2" (LEVEL II, DUAL COATED)	9
20		2'-0" ø x 9'-0 1/16" CORRUGATED STEEL PIPE (GALV.)	1
21		2'-0" ø x 8'-11 7/16" CORRUGATED STEEL PIPE (GALV.)	1
22		2'-0" ø x 8'-10 13/16" CORRUGATED STEEL PIPE (GALV.)	1
23	MK-CT2	20T x 19 3/4" SWIFT LIFT LIFTER	2
24		SET OF (3) 0.60" STRAND LIFTING LOOPS	2
25		SET OF (4) 1/2" STRANDS	2
26			

Vermont Agency of Transportation
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CONFORMANCE
BY: Jennifer Fitch DATE: 4/30/15

SHOP DRAWING REVIEW

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40 IDX Drive
Building 100, Suite 200
South Burlington, VT 05403
802.497.6100

Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

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

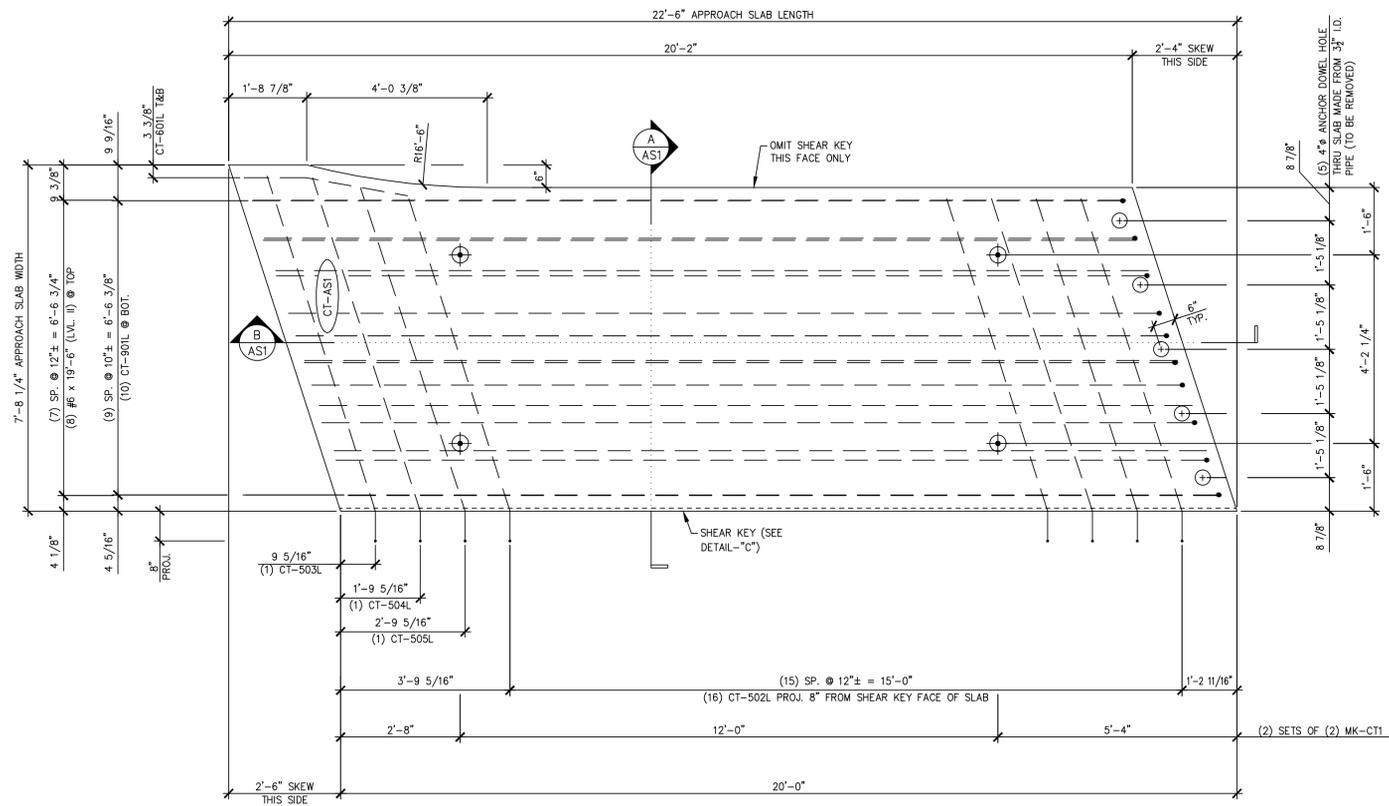
SHULTZ CONSTRUCTION
CONTRACTOR
BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

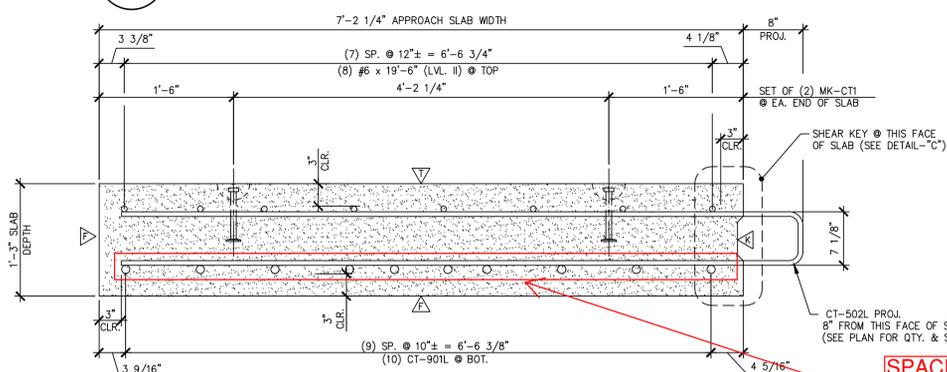
TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 17, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

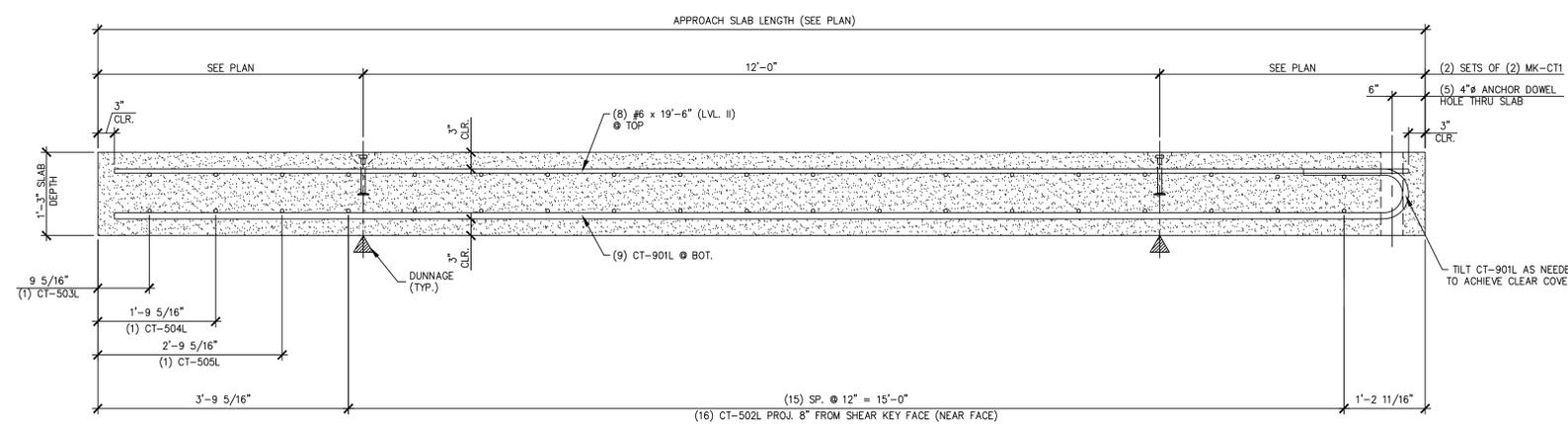
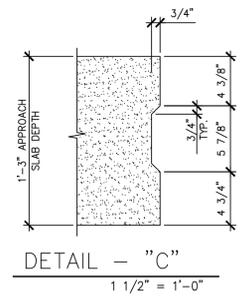
PRECAST ABUTMENT DETAILS "CT-AB4" DWG. NO: AB5



1 APPROACH SLAB PLAN VIEW IN FORM
ASI



A TRANSVERSE SECTION
ASI



B LONGITUDINAL SECTION
ASI

Vermont Agency of Transportation

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CONFORMANCE
BY: Jennifer Fitch DATE: 4/30/15

SHOP NOTE:
f_c = 4,000 PSI
f_t = 3,500 PSI
MIX: #445MSCC

MARK:	CT-AS1	QTY.:	1	WT.:	13.62 T	VOL.:	6.72 cy
MATERIAL LIST / APPROACH SLAB							
ITEM	MARK	DESCRIPTION	QTY.				
			CT-AS1				
1	CT-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	16				
2	CT-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	1				
3	CT-504L	#5 BENT BAR (LEVEL II, DUAL COATED)	1				
4	CT-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	1				
5	CT-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	2				
6	CT-901L	#9 BENT BAR (LEVEL II, DUAL COATED)	10				
7		#6 x 19'-6" (LEVEL II, DUAL COATED)	8				
8	MK-CT1	4T x 7 1/8" SWIFT LIFT LIFTER	4				
9		4" x 1'-3" PVC SLEEVE	5				
10							

SHOP DRAWING REVIEW

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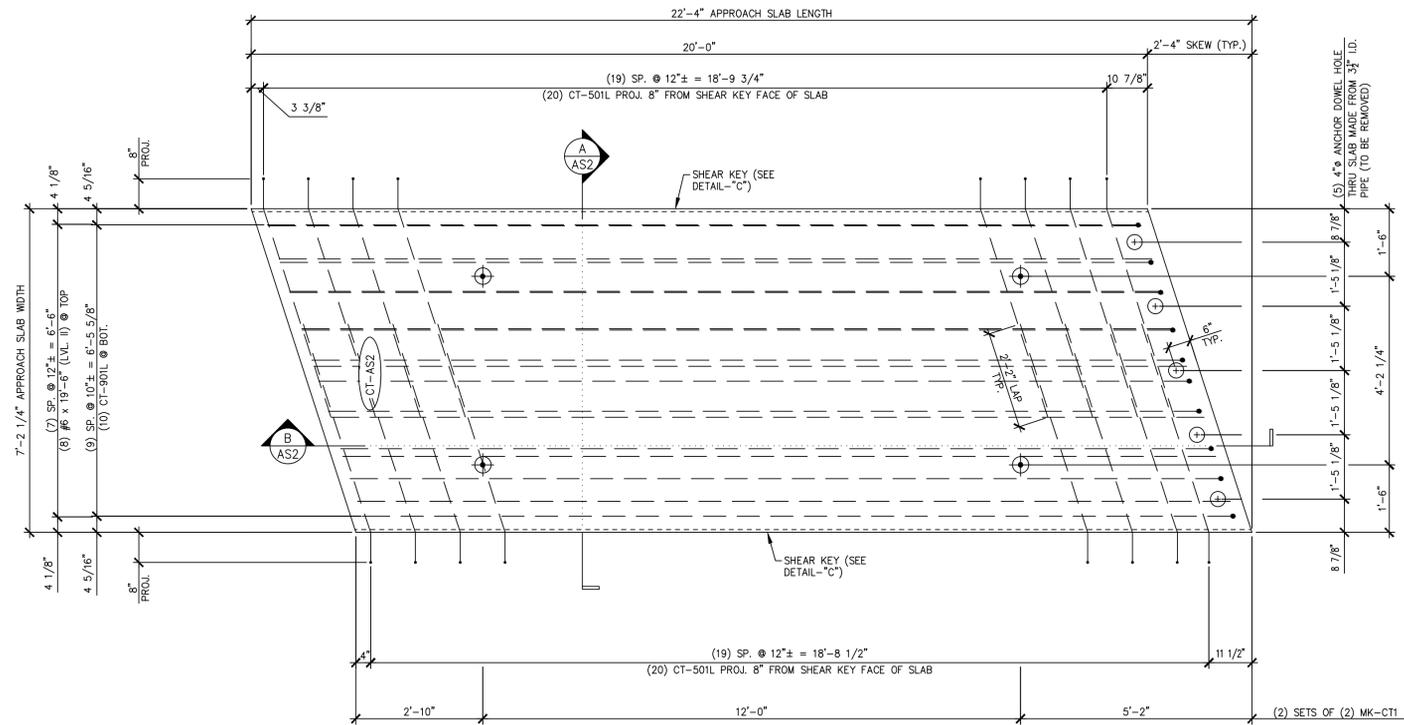
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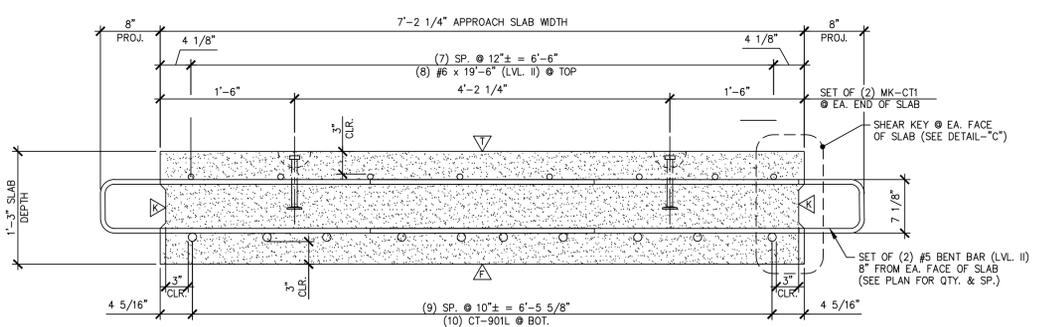
Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2444 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 16, 2015	
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		SCALE: NOTED	CHKD: R.M. DFTM: PSS
PRECAST APPROACH SLAB DETAILS "CT-AS1"		JOB NO: 23456-015	DWG. NO: ASI

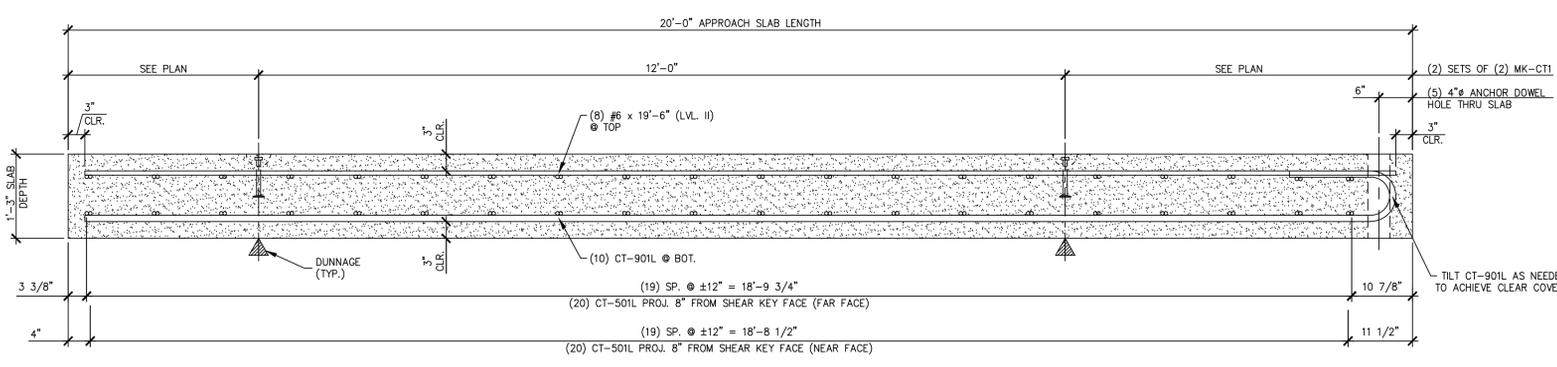
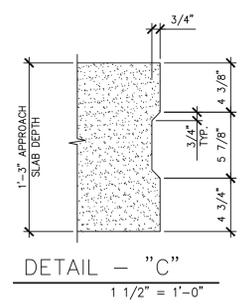


1 APPROACH SLAB PLAN VIEW IN FORM
AS2 1/2" = 1'-0"



A TRANSVERSE SECTION
AS2 1" = 1'-0"

- ▲ DENOTES FORM FINISH
- ▲ DENOTES FLOAT FINISH
- ▲ DENOTES ROUGHENED FINISH



B LONGITUDINAL SECTION
AS2 3/4" = 1'-0"

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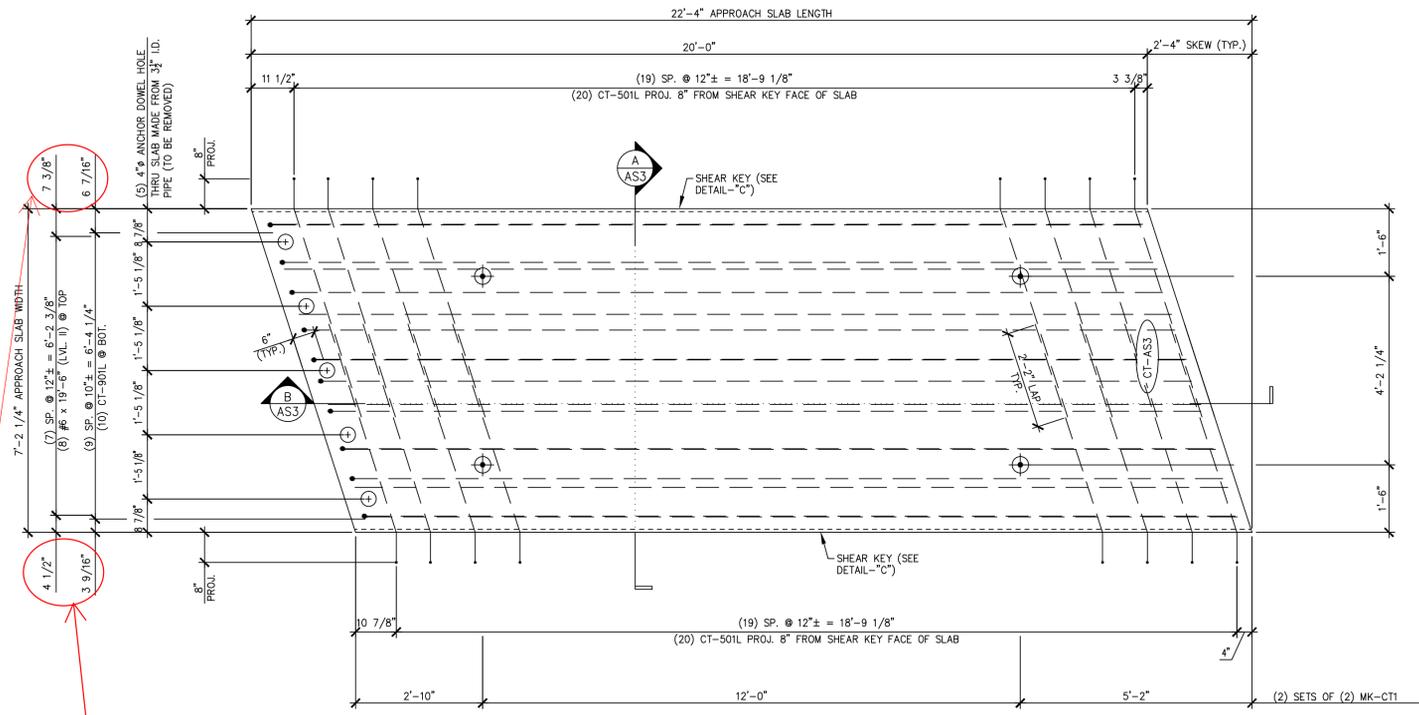
Vermont Agency of Transportation
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BY: Jennifer Fitch DATE: 4/30/15

SHOP NOTE:	
f'c = 4,000 PSI	
f'ci = 3,500 PSI	
MIX: #445MSCC	

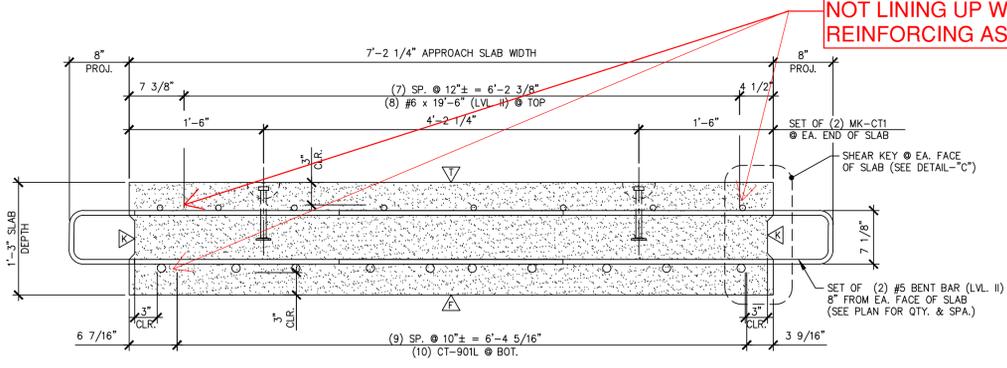
MARK: CT-AS2	QTY.: 2	WT.: 13.48 T	VOL.: 6.65 cy
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	CT-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	40
2			
3			
4	CT-901L	#9 BENT BAR (LEVEL II, DUAL COATED)	10
5		#6 x 19'-6" (LEVEL II, DUAL COATED)	8
6			
7			
8	MK-CT1	4T x 7 1/8" SWIFT LIFT LIFTER	4
9		4" O.D. x 1'-3" PVC SLEEVE	5
10			

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	<p>PRECAST APPROACH SLAB DETAILS "CT-AS2" DWG. NO: AS2</p>	

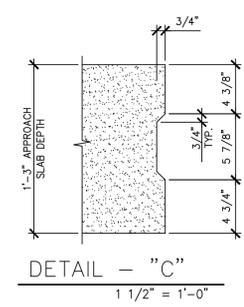


1 APPROACH SLAB PLAN VIEW IN FORM
AS3
1/2" = 1'-0"



A TRANSVERSE SECTION
AS3
1" = 1'-0"

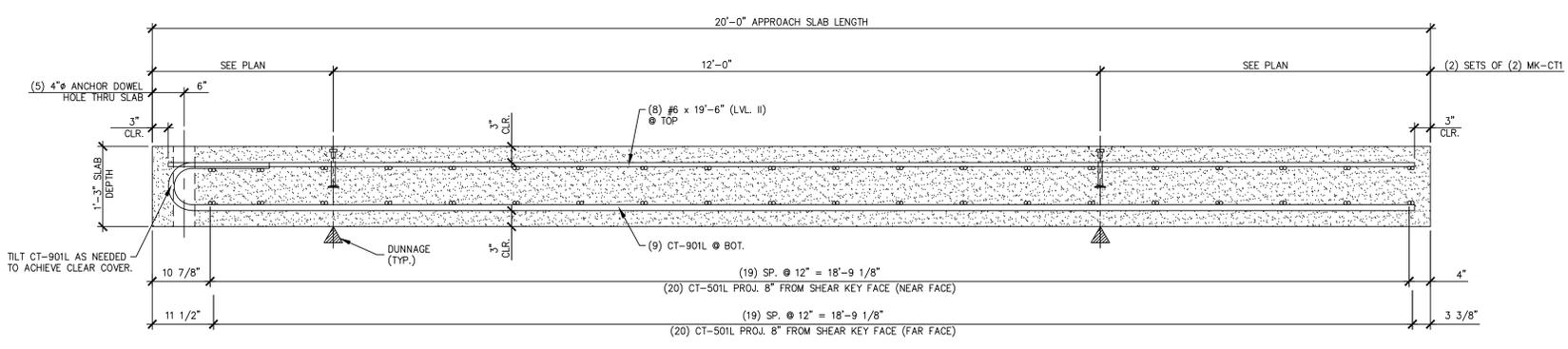
- ▲ DENOTES FORM FINISH
- ▲ DENOTES FLOAT FINISH
- ▲ DENOTES ROUGHENED FINISH



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

CAN THESE DIMENSIONS BE THE SAME AS AS2, THEN ELIMINATE AS3? ARE THEY DIFFERENT TO ACCOMMODATE REINFORCING FROM THE ABUTMENT?

REINFORCING CALL OUTS NOT LINING UP WITH REINFORCING AS SHOWN.



B LONGITUDINAL SECTION
AS3
3/4" = 1'-0"

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BY: Jennifer Fitch DATE: 4/30/15

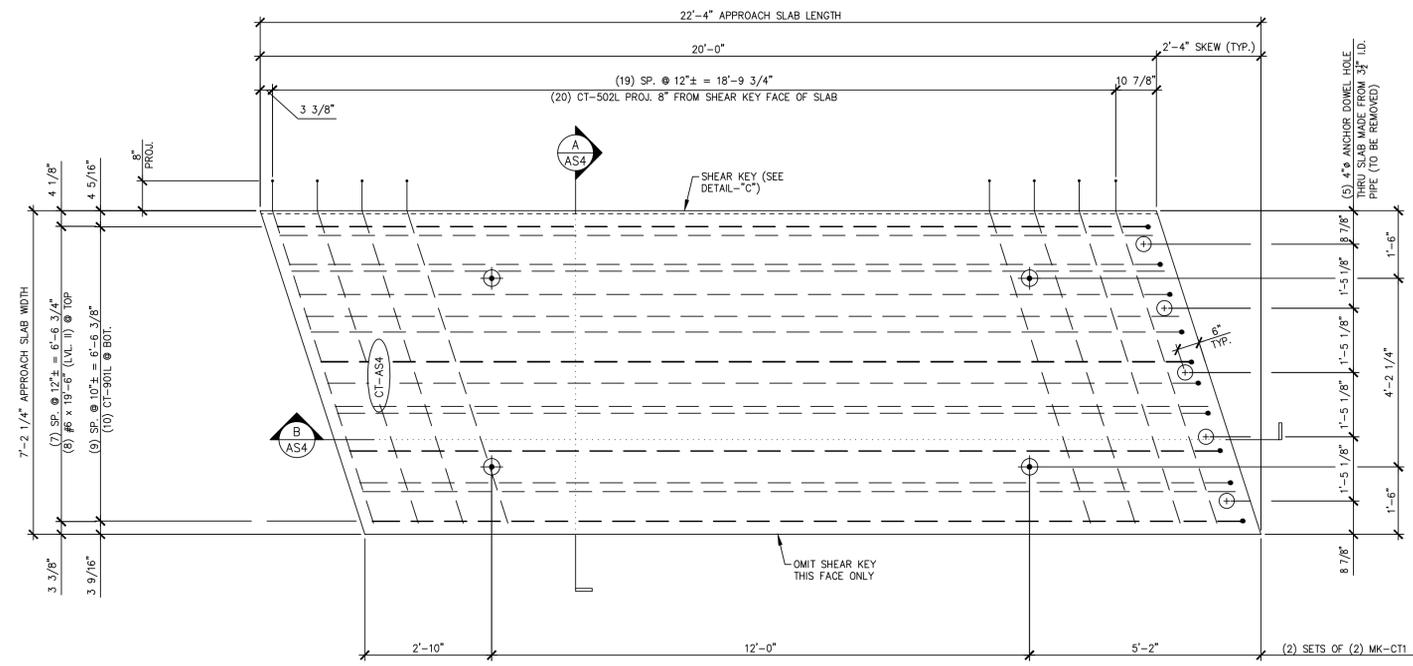
SHOP NOTE:

$f_c = 4,000$ PSI
 $f_{ci} = 3,500$ PSI
MIX: #445MSCC

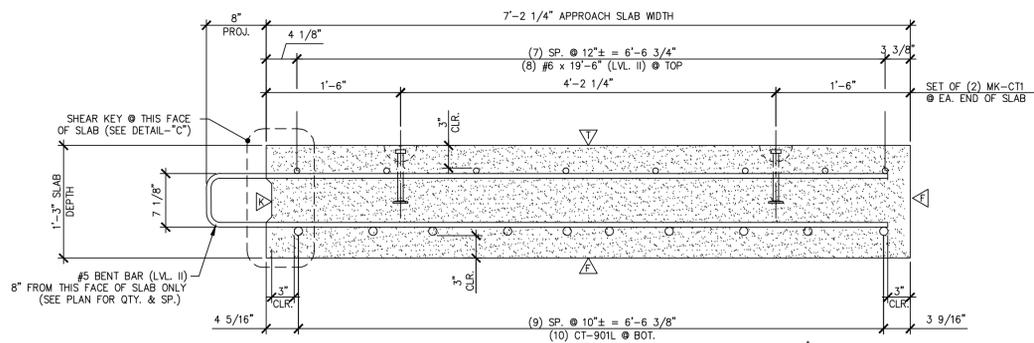
MARK: CT-AS3	QTY.: 2	WT.: 13.48 T	VOL.: 6.65 cy
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY./SLAB
1	CT-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	40
2			
3			
4	CT-901L	#9 BENT BAR (LEVEL II, DUAL COATED)	10
5		#6 x 19'-6" (LEVEL II, DUAL COATED)	8
6			
7			
8	MK-CT1	4T x 7 1/8" SWIFT LIFT LIFTER	4
9		4" O.D. x 1'-3" PVC SLEEVE	5
10			

APPROVAL STAMP:

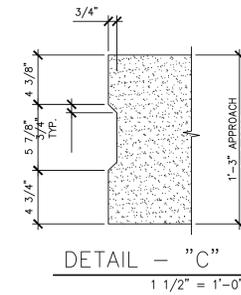
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	<p>TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)</p>	<p>CHKD: R.M. DFTM: PSS JOB NO: 23456-015</p>
	<p>PRECAST APPROACH SLAB DETAILS "CT-AS3" DWG. NO: AS3</p>	



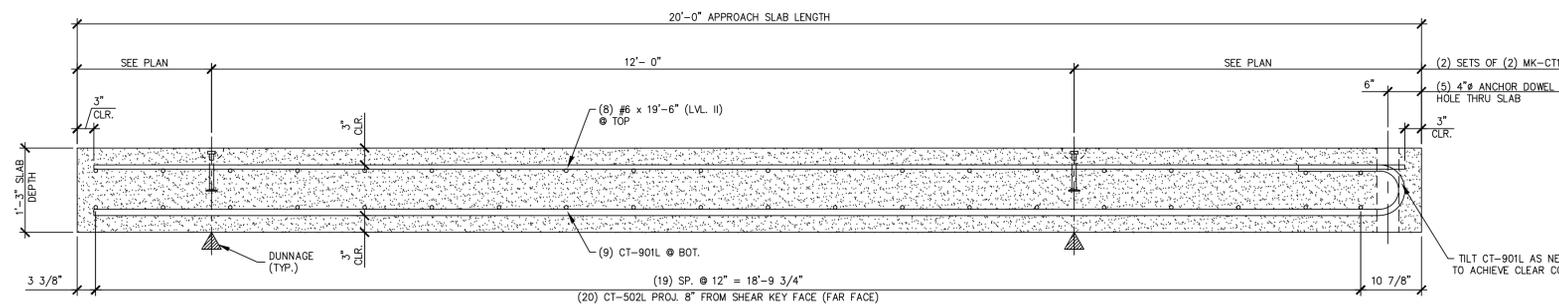
1 APPROACH SLAB PLAN VIEW IN FORM
AS4
1/2" = 1'-0"



A TRANSVERSE SECTION
AS4
1" = 1'-0"



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



B LONGITUDINAL SECTION
AS4
3/4" = 1'-0"

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TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		CHKD: R.M.	DFTM: PSS
PRECAST APPROACH SLAB DETAILS "CT-AS4"		JOB NO: 23456-015	DWG. NO: AS4

Vermont Agency of Transportation
2015-04-30 Castleton BRF 015-2(10) 11 of 14

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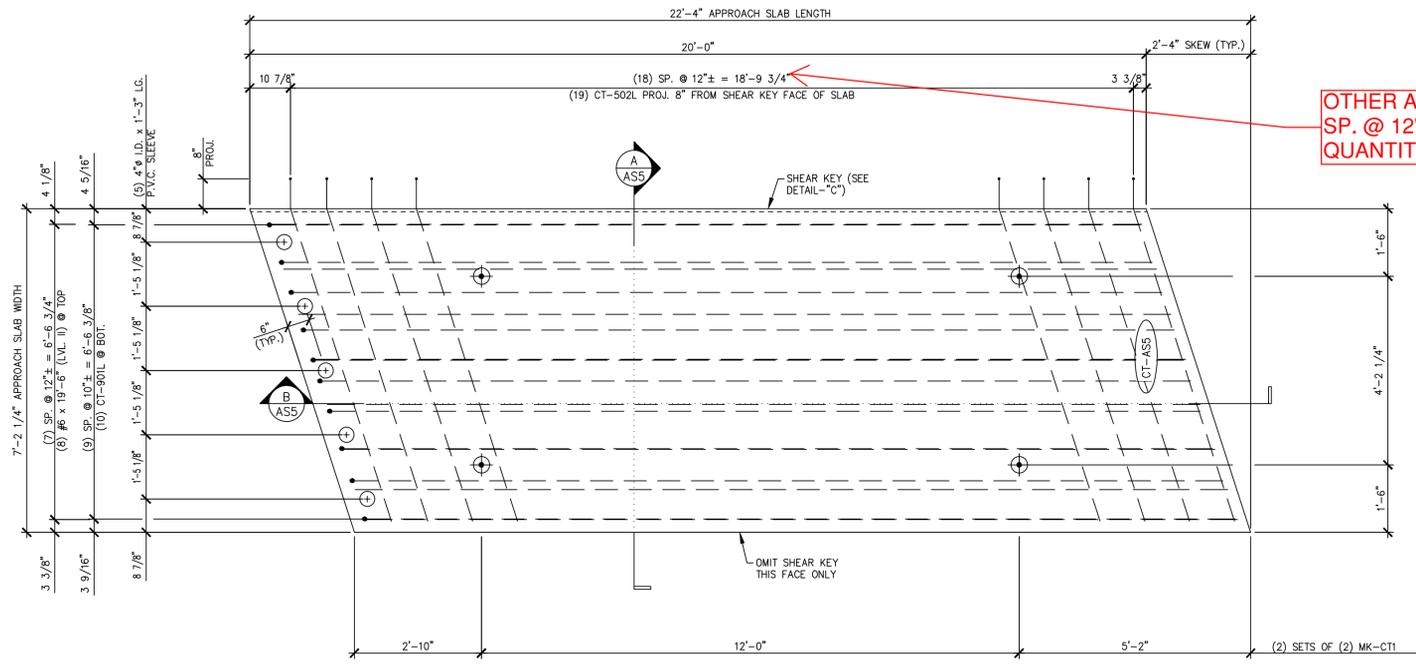
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BY: Jennifer Fitch DATE: 4/30/15

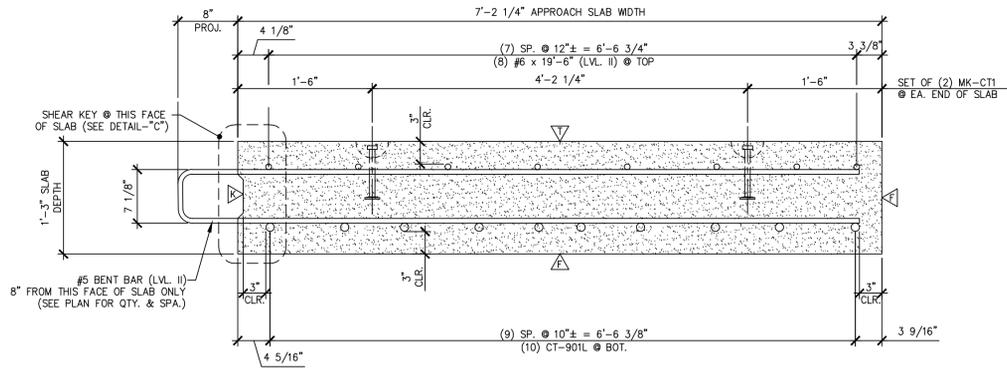
SHOP NOTE:

f_c	= 4,000 PSI
f_{ci}	= 3,500 PSI
MIX:	#445MSCC

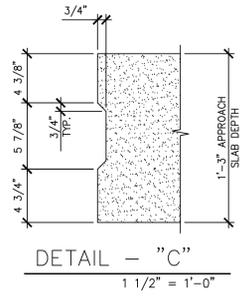
MARK: CT-AS4	QTY.: 2	WT.: 13.48 T	VOL.: 6.65 cy
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY. CT-AS4
1	CT-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	20
2			
3			
4	CT-901L	#9 BENT BAR (LEVEL II, DUAL COATED)	10
5		#6 x 19'-6" (LEVEL II, DUAL COATED)	8
6			
7			
8	MK-CT1	4T x 7 1/8" SWIFT LIFT LIFTER	4
9		4" O.D. x 1'-3" PVC SLEEVE	5
10			



1 APPROACH SLAB PLAN VIEW IN FORM
AS5
1/2" = 1'-0"



A TRANSVERSE SECTION
AS5
1" = 1'-0"

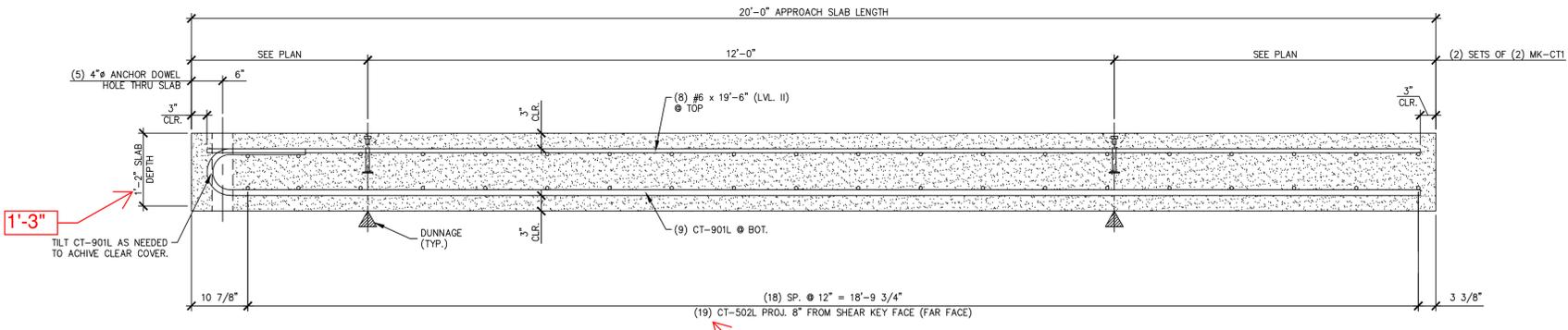


DETAIL - "C"
1 1/2" = 1'-0"

SHOP NOTE:
f_c = 4,000 PSI
f_t = 3,500 PSI
MIX: #445MSCC

MARK: CT-AS5	QTY.: 1	WT.: 13.48 T	VOL.: 6.65 cy
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY. CT-AS5
1	CT-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	19
2			
3			
4	CT-901L	#9 BENT BAR (LEVEL II, DUAL COATED)	10
5		#6 x 19'-6" (LEVEL II, DUAL COATED)	8
6			
7			
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9		4" O.D. x 1'-3" PVC SLEEVE	5
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B LONGITUDINAL SECTION
AS5
3/4" = 1'-0"

VERIFY.

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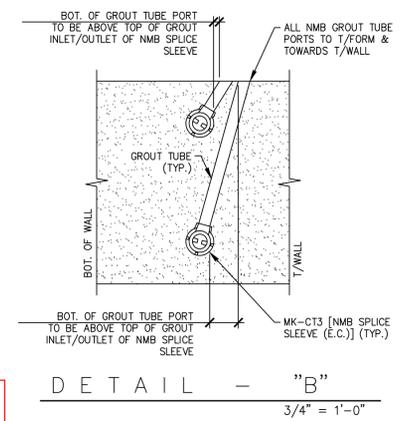
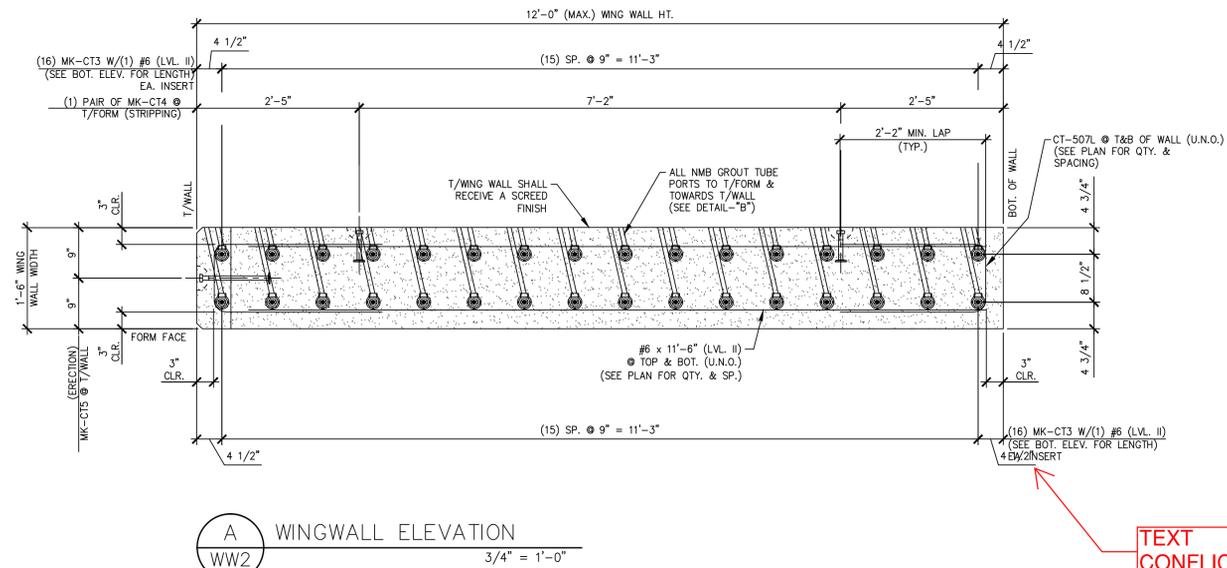
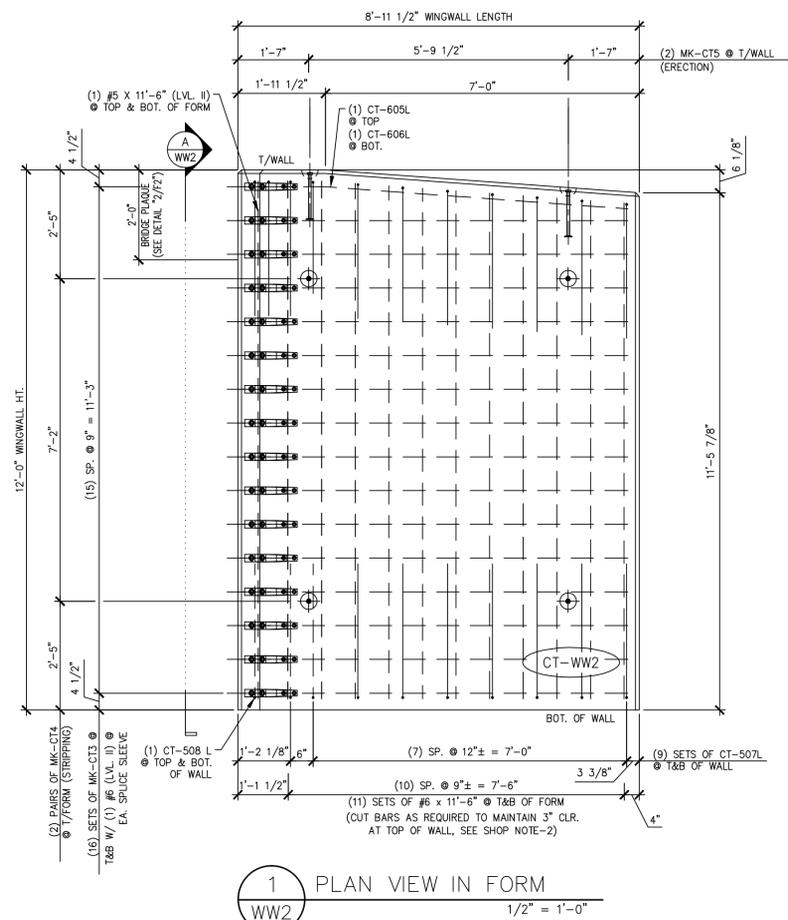
SHULTZ CONSTRUCTION
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BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

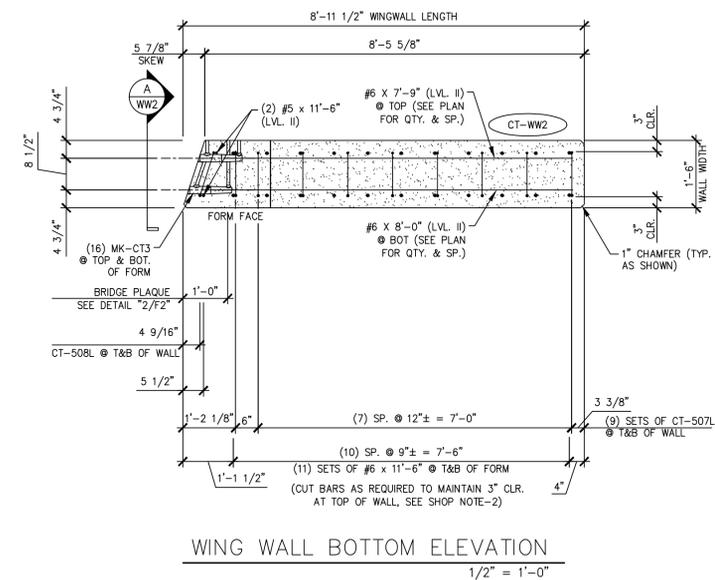
TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 16, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

PRECAST APPROACH SLAB DETAILS
DWG. NO: AS5



TEXT CONFLICT.



SHOP NOTES:
 1. ALL EDGES OF WING WALLS, FORM FACE & T/WALL FACE, SHALL RECEIVE A 1" CHAMFER (UNLESS NOTED OTHERWISE)
 2. ENDS OF CUT BARS SHALL BE COATED WITH TOUCH UP PRODUCT SUPPLIED BY THE REBAR MANUFACTURER.

SHOP NOTE:
 f_c = 5,000 PSI
 f_{ci} = 3,500 PSI
 MIX: #445MSCC

MARK:	CT-WW2	QTY.:	1	WT.:	11.56 T	VOL.:	5.71 cy
MATERIAL LIST / WINGWALL							
ITEM	MARK	DESCRIPTION	QTY.				
1	CT-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	18				
2	CT-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	2				
3	CT-605L	#6 BENT BAR (LEVEL II, DUAL COATED)	1				
4	CT-606L	#6 BENT BAR (LEVEL II, DUAL COATED)	1				
5		#5 x 11'-6" (LEVEL II, DUAL COATED)	2				
6		#6 x 11'-6" (LEVEL II, DUAL COATED)	22				
7		#6 x 8'-0" (LEVEL II, DUAL COATED)	15				
8		#6 x 7'-9" (LEVEL II, DUAL COATED)	15				
9							
10							
11		BRIDGE PLAQUE (SUPPLIED BY OTHERS)	1				
12	MK-CT3	NMB SPLICE SLEEVE 6U-X(PG) (EPOXY COATED)	32				
13	MK-CT4	4T x 7 1/8" SWFT LIFT LIFTER	4				
14	MK-CT5	8T x 13 3/8" SWFT LIFT LIFTER	2				
15							

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40 IDX Drive
 Building 100, Suite 200
 South Burlington, VT 05403
 802.497.6100

Job Number: 57632.00
 Reviewed By: E.F. LAWES
 Date: April 30, 2015

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

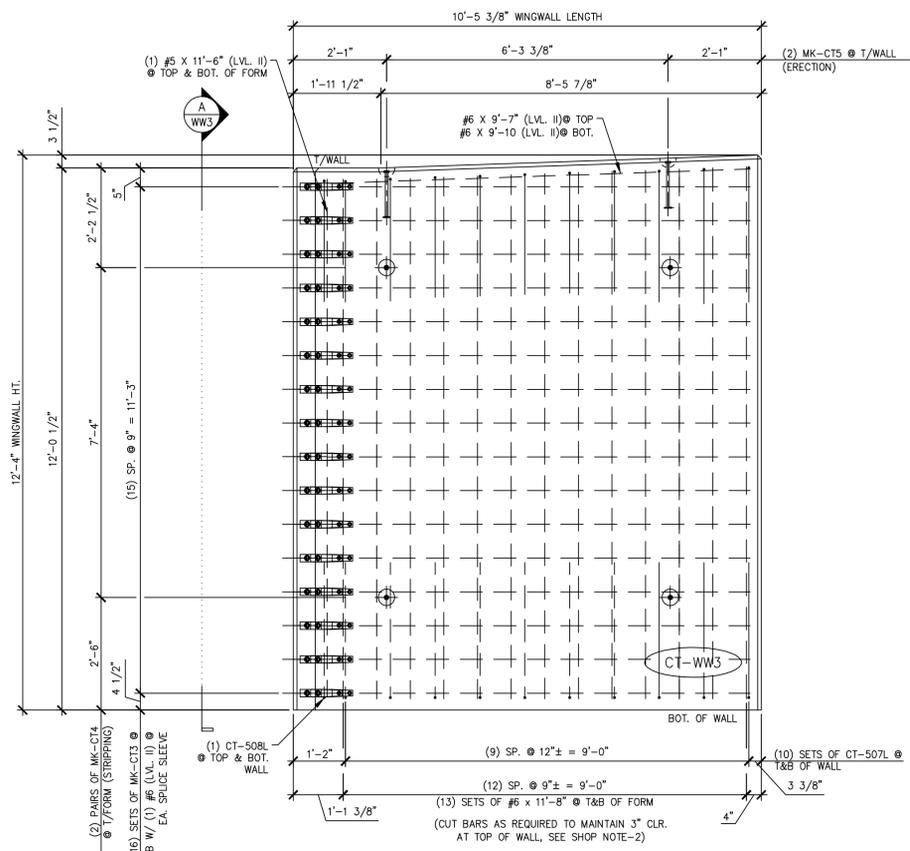
SHULTZ CONSTRUCTION
 CONTRACTOR
 BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF RUTLAND

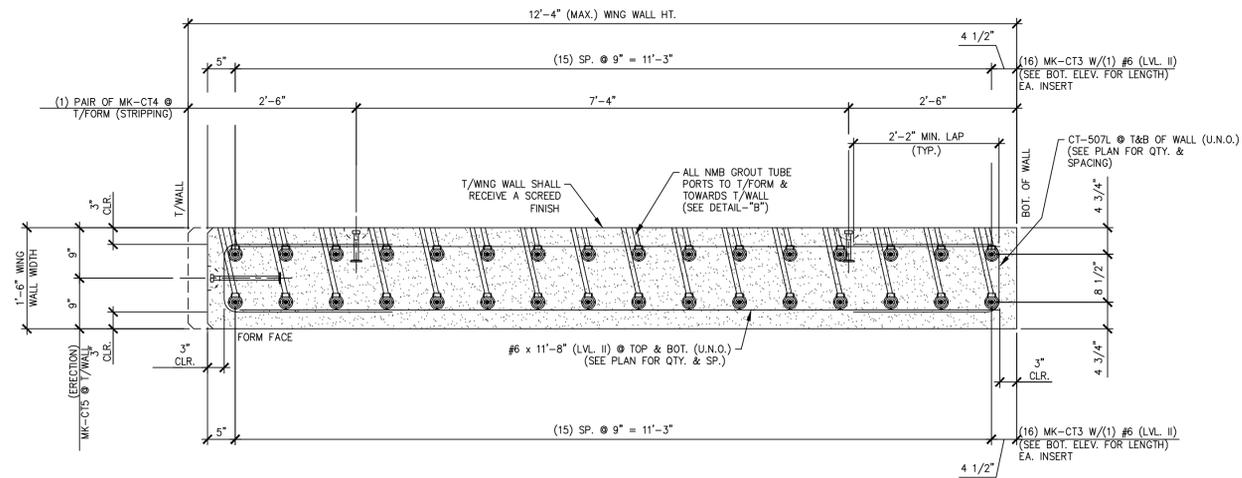
TOWN OF CASTLETON
 VT ROUTE 30 (RURAL MINOR ARTERIAL)
 BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 16, 2015
 SCALE: NOTED
 CHKD: R.M. DFTM: PSS
 JOB NO: 23456-015

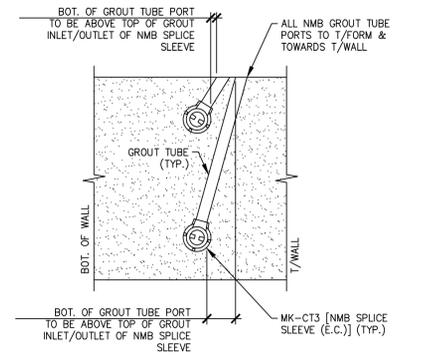
PRECAST WINGWALL DETAILS "CT-WW2" DWG. NO: WW2



1 PLAN VIEW IN FORM
WW3
1/2" = 1'-0"



A WINGWALL ELEVATION
WW3
3/4" = 1'-0"



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

SHOP NOTES:
1. ALL EDGES OF WING WALLS, FORM FACE & T/WALL FACE, SHALL RECEIVE A 1" CHAMFER (UNLESS NOTED OTHERWISE)
2. ENDS OF CUT BARS SHALL BE COATED WITH TOUCH UP PRODUCT SUPPLIED BY THE REBAR MANUFACTURER.

SHOP NOTE:
f_c = 5,000 PSI
f_{ci} = 3,500 PSI
MIX: #445MSCC

MARK:	CT-WW3	QTY.:	1	WT.:	13.95 T	VOL.:	6.89 cy
MATERIAL LIST / WINGWALL							
ITEM	MARK	DESCRIPTION	QTY.				
1	CT-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	20				
2	CT-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	2				
3		#5 x 11'-6" (LEVEL II, DUAL COATED)	2				
4		#6 x 11'-8" (LEVEL II, DUAL COATED)	26				
5		#6 x 9'-3" (LEVEL II, DUAL COATED)	16				
6		#6 x 9'-6" (LEVEL II, DUAL COATED)	16				
7		#6 x 9'-7" (LEVEL II, DUAL COATED)	1				
8		#6 x 9'-10" (LEVEL II, DUAL COATED)	1				
9							
10							
11							
12	MK-CT3	NMB SPLICE SLEEVE 6U-X(PG) (EPOXY COATED)	32				
13	MK-CT4	4T x 7 1/8" SWIFT LIFT LIFTER	4				
14	MK-CT5	8T x 13 3/8" SWIFT LIFT LIFTER	2				
15							

Vermont Agency of Transportation
RECEIVED
ON: **April 27, 2015**
and Checked for
CONFORMANCE
BY: **Jennifer Fitch** DATE: **4/30/15**

SHOP DRAWING REVIEW

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802-497-6100

Job Number: 57632.00
Reviewed By: E.F. LAWES
Date: April 30, 2015

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

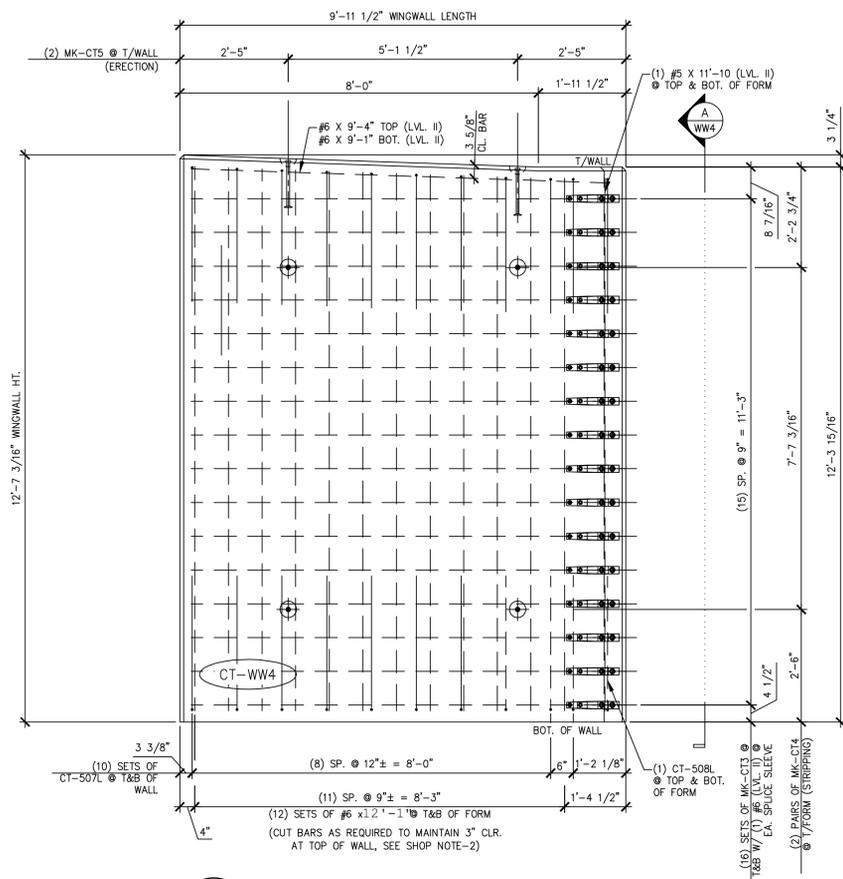
SHULTZ CONSTRUCTION
CONTRACTOR
BALLSTON SPA, NY

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

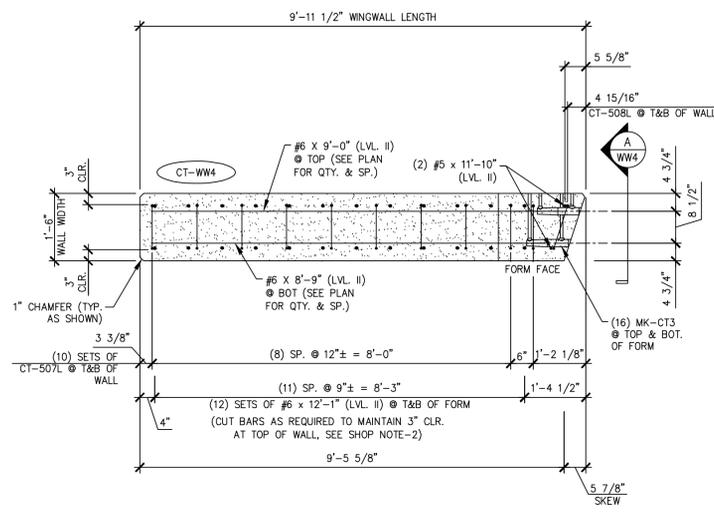
TOWN OF CASTLETON
VT ROUTE 30 (RURAL MINOR ARTERIAL)
BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 16, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

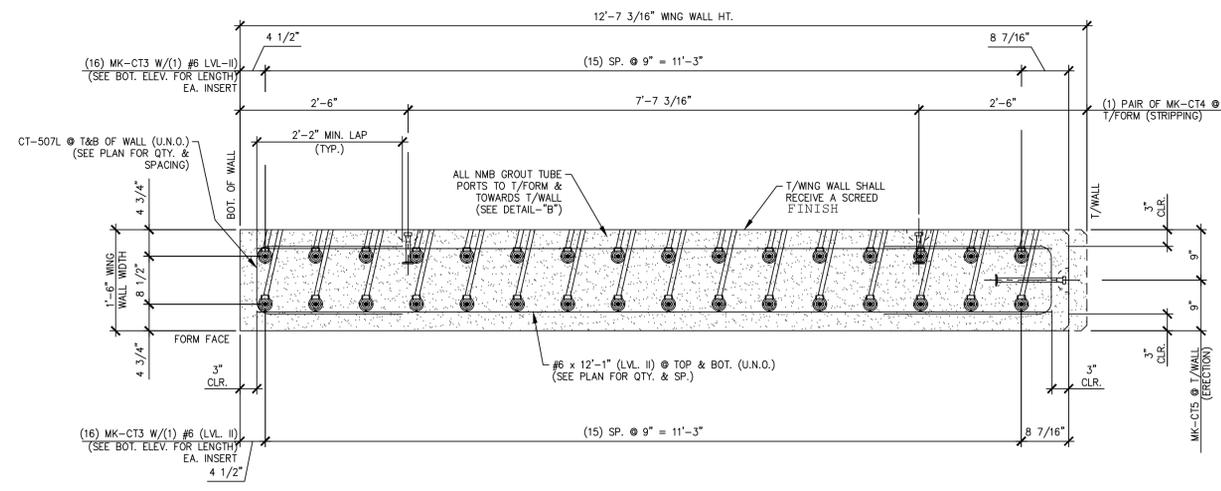
PRECAST WINGWALL DETAILS "CT-WW3" DWG. NO: WW3



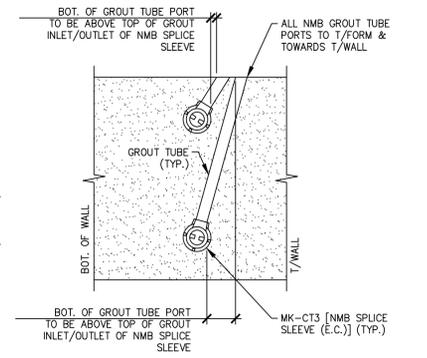
1 PLAN VIEW IN FORM
WW4
1/2" = 1'-0"



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



A WINGWALL ELEVATION
WW4
3/4" = 1'-0"



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

SHOP NOTES:
1. ALL EDGES OF WING WALLS, FORM FACE & T/WALL FACE, SHALL RECEIVE A 1" CHAMFER (UNLESS NOTED OTHERWISE)
2. ENDS OF CUT BARS SHALL BE COATED WITH TOUCH UP PRODUCT SUPPLIED BY THE REBAR MANUFACTURER.

SHOP NOTE:
f_c = 5,000 PSI
f_{ci} = 3,500 PSI
MIX: #445MSCC

MARK:	CT-WW4	QTY.:	1	WT.:	13.59 T	VOL.:	6.71 cy
MATERIAL LIST / WINGWALL							
ITEM	MARK	DESCRIPTION	QTY.				
1	CT-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	20				
2	CT-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	2				
3							
4		#5 x 11'-10" (LEVEL II, DUAL COATED)	2				
5		#6 x 12'-1" (LEVEL II, DUAL COATED)	24				
6		#6 x 9'-4" (LEVEL II, DUAL COATED)	1				
7		#6 x 9'-1" (LEVEL II, DUAL COATED)	1				
8		#6 x 9'-0" (LEVEL II, DUAL COATED)	16				
9		#6 x 8'-9" (LEVEL II, DUAL COATED)	16				
10							
11							
12	MK-CT3	NMB SPLICE SLEEVE 6U-X(PG) (EPOXY COATED)	32				
13	MK-CT4	4T x 7 1/8" SWIFT LIFT LIFTER	4				
14	MK-CT5	8T x 13 3/8" SWIFT LIFT LIFTER	2				
15							

Vermont Agency of Transportation
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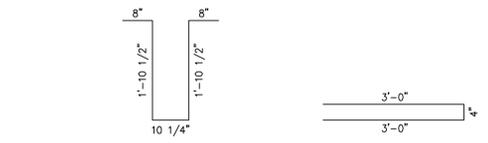
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STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF RUTLAND

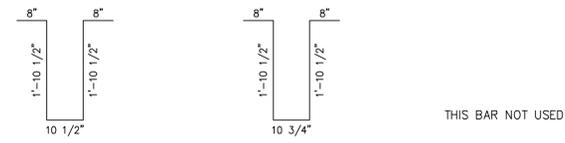
TOWN OF CASTLETON
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BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)

DATE: APR. 16, 2015
SCALE: NOTED
CHKD: R.M. DFTM: PSS
JOB NO: 23456-015

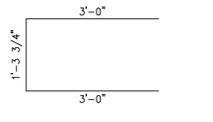
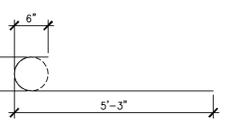
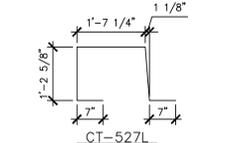
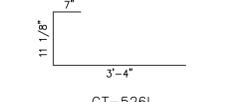
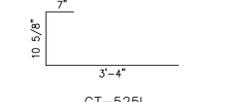
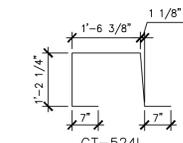
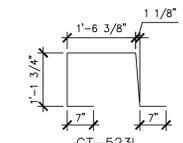
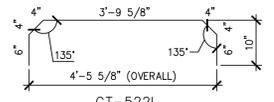
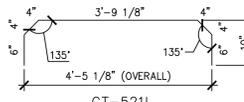
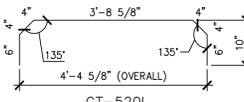
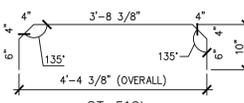
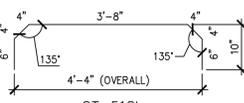
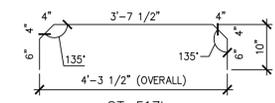
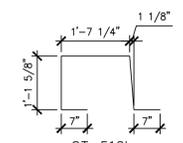
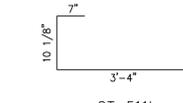
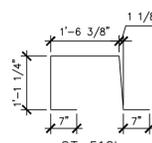
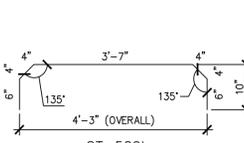
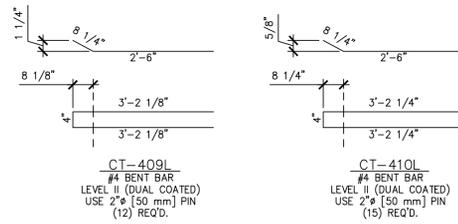
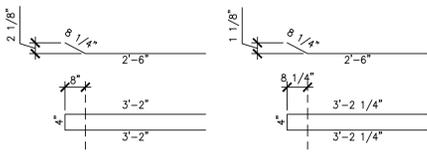
PRECAST WINGWALL DETAILS "CT-WW4" DWG. NO: WW4



THIS BAR NOT USED

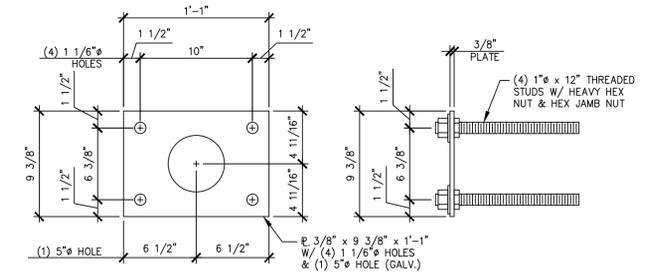


THIS BAR NOT USED



PRESTRESSED NEXT BEAMS

NEXT BEAM MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		112	#4 x 8'-1 1/2" (LEVEL II, DUAL COATED)	
2				
3		976	#5 x 7'-8 1/2" (LEVEL II, DUAL COATED)	
4		48	#5 x 7'-9" (LEVEL II, DUAL COATED)	
5		32	#5 x 7'-10" (LEVEL II, DUAL COATED)	
6		32	#5 x 7'-11" (LEVEL II, DUAL COATED)	
7		32	#5 x 8'-0" (LEVEL II, DUAL COATED)	
8		88	#6 x 66'-9" (W/ (1) 2'-2" STAGGERED LAP) (40' + 28'-11") (LVL. II, DUAL COATED)	
9		6	#5 x 66'-9" (W/ (1) 2'-2" STAGGERED LAP) (40' + 28'-11") (LVL. II, DUAL COATED)	IN PRECAST CONCRETE CURB CAST AS A SECONDARY POUR
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34		16	SET OF (4) 1/2" x 270 KSI STRAND LIFTING LOOPS	
35		16	2" I.D. PVC SLEEVE	
36	MK-CT6	68	DAYTON B-16 1/2" x 3" LONG COIL LOOP INSERTS (ELECTROPLATED GALV.)	
37		16	GUARDRAIL ANCHOR PLATE (GALV.)	SUPPLIED BY OTHERS, IN PRECAST CONCRETE CURB CAST AS A SECONDARY POUR
38				



GUARDRAIL ANCHOR PLATE
SUPPLIED BY OTHERS 1 1/2" = 1'-0"

Vermont Agency of Transportation

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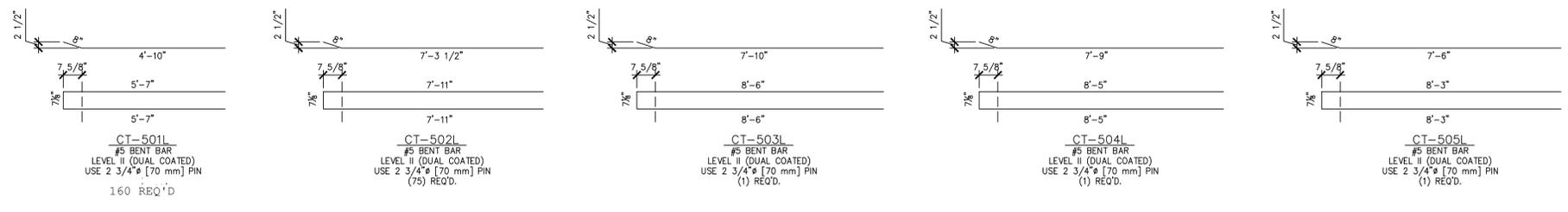
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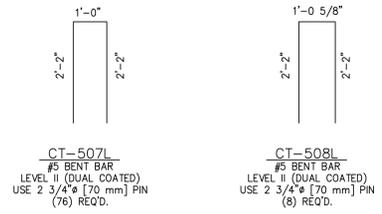
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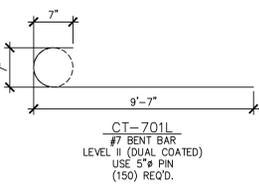
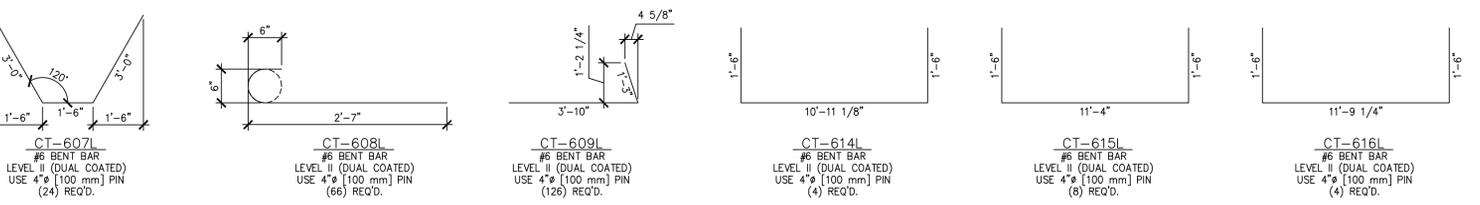
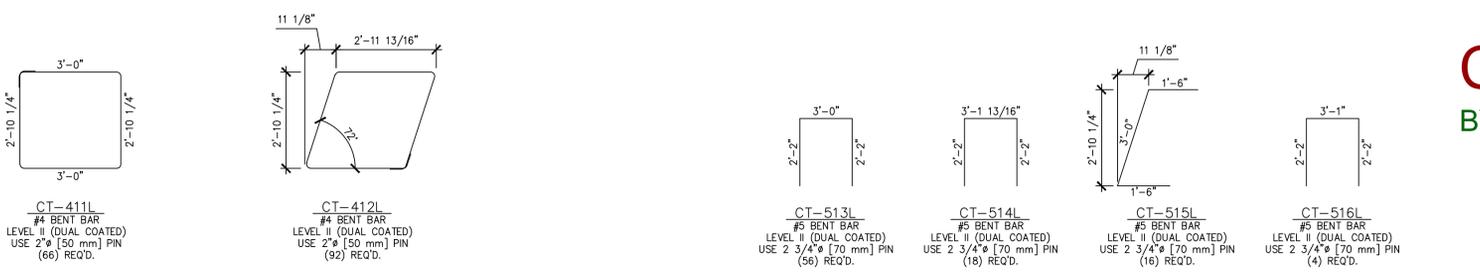
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GSE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND		DATE: APR. 17, 2015	
TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)		SCALE: NOTED	CHKD: R.M. DFTM: PSS
MATERIALS LIST (NEXT BEAMS)		JOB NO: 23456-015	DWG. NO: M1



PRECAST APPROACH SLABS



PRECAST WINGWALLS



PRECAST ABUTMENTS

APPROACH SLAB MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		64	#6 x 19'-6" (LEVEL II, DUAL COATED)	
2				
3	MK-CT1	24	4T x 7 1/8" SWIFT LIFT LIFTER	
4				
5		40	4" O.D. x 1'-3" PVC SLEEVE	

WINGWALLS MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		2	#5 x 10'-11" (LEVEL II, DUAL COATED)	
2		4	#5 x 11'-6" (LEVEL II, DUAL COATED)	
3		2	#5 x 11'-10" (LEVEL II, DUAL COATED)	
4		29	#6 x 7'-9" (LEVEL II, DUAL COATED)	
5		29	#6 x 8'-0" (LEVEL II, DUAL COATED)	
6		16	#6 x 8'-9" (LEVEL II, DUAL COATED)	
7		16	#6 x 9'-0" (LEVEL II, DUAL COATED)	
8		1	#6 x 9'-1" (LEVEL II, DUAL COATED)	
9		16	#6 x 9'-3" (LEVEL II, DUAL COATED)	
10		1	#6 x 9'-4" (LEVEL II, DUAL COATED)	
11		16	#6 x 9'-6" (LEVEL II, DUAL COATED)	
12		1	#6 x 9'-7" (LEVEL II, DUAL COATED)	
13		1	#6 x 9'-10" (LEVEL II, DUAL COATED)	
14		22	#6 x 10'-11" (LEVEL II, DUAL COATED)	
15		22	#6 x 11'-6" (LEVEL II, DUAL COATED)	
16		26	#6 x 11'-8" (LEVEL II, DUAL COATED)	
17		24	#6 x 12'-1" (LEVEL II, DUAL COATED)	
18	MK-CT3	126	NMB SPLICE SLEEVE 6U-(PG) (EPOXY COATED)	
19	MK-CT4	16	4T x 7 1/8" SWIFT LIFT LIFTER	
20	MK-CT5	8	8T x 13 3/8" SWIFT LIFT LIFTER	
21		1	BRIDGE PLAQUE (SUPPLIED BY OTHERS)	

ABUTMENT MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		4	#8 x 22'-1" (LEVEL II, DUAL COATED)	
2		4	#8 x 21'-2" (LEVEL II, DUAL COATED)	
3		11	#7 x 11'-10" (LEVEL II, DUAL COATED)	
4		22	#7 x 11'-6" (LEVEL II, DUAL COATED)	
5		11	#7 x 10'-11" (LEVEL II, DUAL COATED)	
6		29	#7 x 9'-9" (LEVEL II, DUAL COATED)	
7		29	#7 x 9'-3" (LEVEL II, DUAL COATED)	
8		4	#6 x 11'-10" (LEVEL II, DUAL COATED)	
9		8	#6 x 11'-6" (LEVEL II, DUAL COATED)	
10		4	#6 x 10'-11" (LEVEL II, DUAL COATED)	
11		35	#5 x 22'-1" (LEVEL II, DUAL COATED)	
12		35	#5 x 21'-2" (LEVEL II, DUAL COATED)	
13				
14				
15				
16				
17		1	2'-0" x 9'-0 1/16" CORRUGATED STEEL PIPE (GALV.)	
18		1	2'-0" x 8'-11 13/16" CORRUGATED STEEL PIPE (GALV.)	
19		1	2'-0" x 8'-11 7/16" CORRUGATED STEEL PIPE (GALV.)	
20		1	2'-0" x 8'-10 13/16" CORRUGATED STEEL PIPE (GALV.)	
21		1	2'-0" x 8'-9 7/16" CORRUGATED STEEL PIPE (GALV.)	
22		1	2'-0" x 8'-7 1/16" CORRUGATED STEEL PIPE (GALV.)	
23		1	2'-0" x 8'-6 13/16" CORRUGATED STEEL PIPE (GALV.)	
24		1	2'-0" x 8'-6 3/16" CORRUGATED STEEL PIPE (GALV.)	
25		1	2'-0" x 8'-5 13/16" CORRUGATED STEEL PIPE (GALV.)	
26		1	2'-0" x 8'-5 9/16" CORRUGATED STEEL PIPE (GALV.)	
27		1	2'-0" x 8'-3 7/16" CORRUGATED STEEL PIPE (GALV.)	
28		1	2'-0" x 8'-1 1/16" CORRUGATED STEEL PIPE (GALV.)	
29	MK-CT2	8	20T x 19 3/4" SWIFT LIFT LIFTER	
30		48	1/2" SINGLE USE STRESSING CHUCK (GALV.)	FOR ERECTION
31	EM-CT1	24	PL. 1" x 6" x 6" W/(2) 3/4" HOLES (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
32		24	1/2" x 47'-0" POLY-STRAND	FOR ERECTION
33				
34				

Vermont Agency of Transportation
 RECEIVED
 ON: April 27, 2015
 and Checked for
 CONFORMANCE
 BY: Jennifer Fitch DATE: 4/30/15

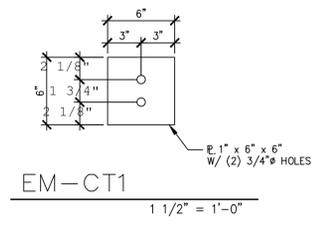
SHOP DRAWING REVIEW

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

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

40 IDX Drive
 Building 100, Suite 200
 South Burlington, VT 05403
 802.497.6100

Job Number: 57832.00
 Reviewed By: E.F. LAWES
 Date: April 30, 2015



APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	SHULTZ CONSTRUCTION CONTRACTOR BALLSTON SPA, NY
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF RUTLAND	DATE: APR. 17, 2015
	TOWN OF CASTLETON VT ROUTE 30 (RURAL MINOR ARTERIAL) BRIDGE NO.: 93 PROJECT NO.: BRF 015-2(10)	SCALE: NOTED
	MATERIALS LIST (ABUTMENTS, WING WALLS & APPROACH SLABS)	CHKD: R.M. OFTM: PSS JOB NO: 23456-015 DWG. NO: M2