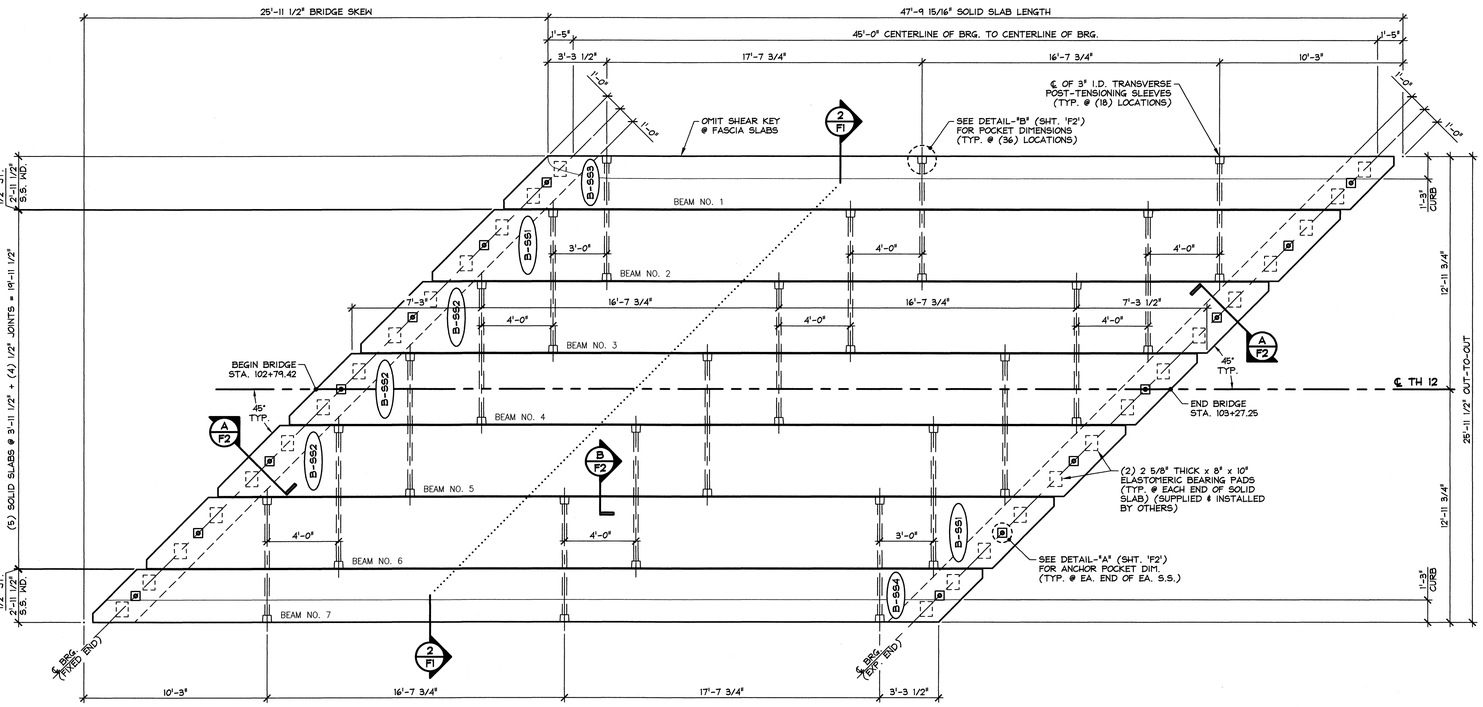
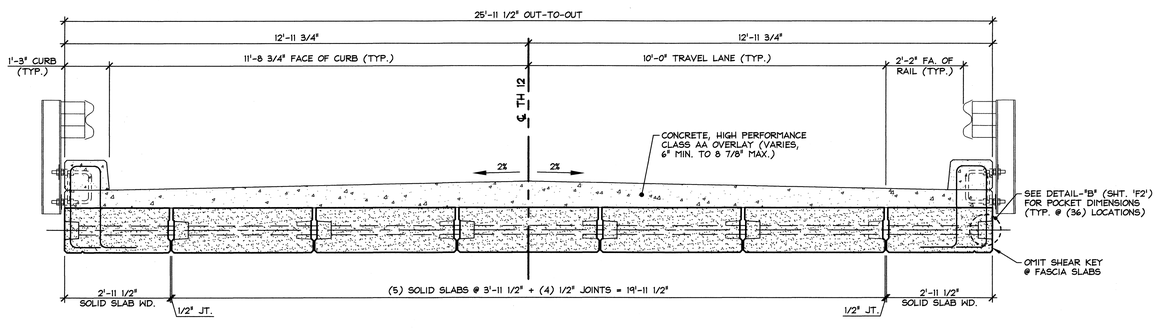


1 / F1 PRECAST SOLID SLAB LAYOUT

1/4" = 1'-0"



2 / F1 TRANSVERSE SECTION

1/2" = 1'-0"

CONSTRUCTION SEQUENCE

1. ERECT SLABS STARTING AT THE LOWER EXTERIOR SLAB, PLACING ONE SLAB AT A TIME:
   - A. PLACE SLABS TO FIT WITHIN THE WORKING LINES.
   - B. PRIOR TO INSTALLING INTERIOR SLABS IN EACH PHASE OF CONSTRUCTION, INSTALL ANCHORED END OF THREADED STEEL ROD WITH ENOUGH ROD TO PASS THROUGH THE NEXT SLAB TO BE PLACED IN THE FOLLOWING PHASE OF CONSTRUCTION.
   - C. AS WORK PROGRESSES, INSTALL HARDWOOD WEDGES BETWEEN ADJACENT SLABS TO MAINTAIN PROPER JOINT OPENING (A MINIMUM OF ONE WEDGE AT EACH POST-TENSIONING DUCT).
   - D. DRILL ANCHOR BOLT HOLES.
   - E. PLACE ANCHOR BOLTS.
2. INSTALL BACKER ROD: PLACE FILLER BELOW THE KEYWAY BOTTOM, AS SHOWN ON THE PLANS.
3. INSTALL THREADED STEEL RODS:
   - F. FEED THREADED STEEL RODS THROUGH DUCTS.
   - G. VERIFY THAT HARDWOOD WEDGES ARE IN PLACE AS REQUIRED TO PREVENT SLIPPAGE OF SLABS.
   - H. USING A CALIBRATED JACK, POST-TENSION THE THREADED STEEL RODS TO APPROXIMATELY 5 KIPS TO SEAT THE ANCHOR NUT.
6. GROUT SHEAR KEYS:
   - I. CLEAN JOINTS WITH AN OIL FREE AIR-BLAST IMMEDIATELY BEFORE GROUT PLACEMENT. VERIFY THAT THE BACKER ROD IS STILL IN PLACE.
   - J. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL JOINT PREPARATION AND GROUT PLACEMENT.
   - K. CAREFULLY ROD JOINTS TO ELIMINATE ANY POSSIBILITY OF VOIDS.
7. POST-TENSION THREADED STEEL RODS:
   - L. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 1,500 PSI, BASED ON THE MANUFACTURER'S RECOMMENDATIONS, PRIOR TO STRESSING. THE GROUT NEED NOT BE CURED FOR THREE DAYS PRIOR TO THE COMMENCING OF POST-TENSIONING.
   - M. PROVIDE APPROPRIATE CUBE MOLDS AS DESCRIBED IN AASHTO T106 FOR 3 SETS OF 3 DAY CUBES, 3 SETS OF 28 DAY CUBES AND AT A MINIMUM OF 3 MORE CUBES TO TEST FOR THE 1,500 PSI MINIMUM COMPRESSIVE STRENGTH (BY OTHERS).
   - N. POST-TENSION THREADED STEEL RODS TO 47 KIPS USING A CALIBRATED JACK OPERATED BY QUALIFIED PERSONNEL.
8. FOR EACH SOLID SLAB, REPEAT THE SEQUENCE SPECIFIED IN NOTES 1-7.

GENERAL NOTES

1. MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 6,000 PSI.
2. MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 4,800 PSI.
3. REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL BE LEVEL II, DUAL COATED.
4. PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60"Φ x 270 KSI 7-WIRE LOW RELAXATION STRANDS.
5. 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.)
6. ENDS OF PRESTRESSING STRANDS SHALL BE RECESSED & GROUTED.
7. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
8. THE TOP OF SLABS SHALL RECEIVE A TRANSVERSE RAKE FINISH ROUGHENED TO 1/4" AMPLITUDE.
9. SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
10. SLABS SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. **THE PINS OF THE SHACKLES SHALL BE PLACED THOUGH THE LIFTING LOOPS.** SEE DETAIL, SHEET 'F2'. SLABS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS WITHIN 2'-0" OF THE SLAB ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
11. MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. P510.02 AND P510.05 RESPECTIVELY.
    DESIGN MIX: J.P.C. BRIDGE MIX #425M
12. QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
13. CURING METHOD: AS SOON AS THE TOP OF SLAB IS FINISHED, A COVER OF POLY AND A LAYER OF HOMOSOTE (OR BLUE BOARD) WILL BE PLACED OVER THE SLAB. 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, (NATURAL CURE WITH NO EXTERNAL HEAT APPLIED). EACH CHART SHALL BE MARKED.
14. OWNER SHALL PROVIDE APPROPRIATE WATERPROOFING TO GROUTED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUTED SHEAR KEYS.

EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING

(NOT TO BE USED FOR CONSTRUCTION)

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

EXAMPLE:

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

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

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

$$\Delta P = \frac{0.5 \times 41{,}000}{15.29} = 1{,}340 \text{ LBS.}$$

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

STRAND TENSIONING PROCEDURE:

1. PULL EACH STRAND INITIALLY TO 3,000# LBS. AND MARK STRAND.
2. THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,340# LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 14 1/2" & 16 1/16".

NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.

APPROVAL STAMP:

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

RENAUD BRO., INC.
CONTRACTOR
VERNON, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDHAM

DATE: MAR. 24, 2014
SCALE: NOTED

TOWN OF BRATTLEBORO
TH 12, CLASS III (LOCAL ROAD) OVER HALLADAY BROOK
BRIDGE NO.: 7 PROJECT NO.: BRO 1442(35)

CHKD: M.D. DFTM: B.L.
JOB NO: 23424-014

SUPERSTRUCTURE PLAN & SECTION

DWG. NO: F1

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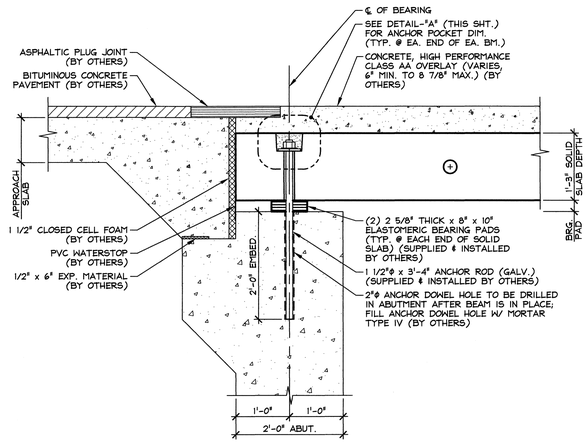
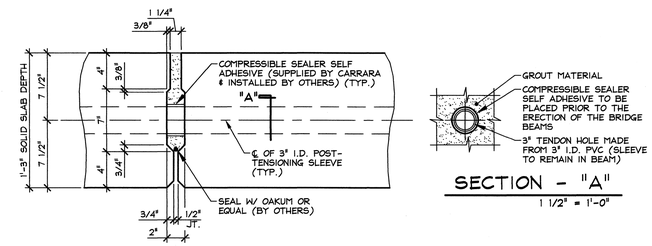
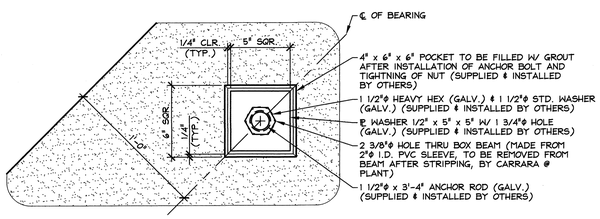


A / F2 BEARING SECTION
3/4" = 1'-0"

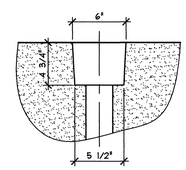


SECTION - "A"
1 1/2" = 1'-0"

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



PLAN @ BEAM ℄



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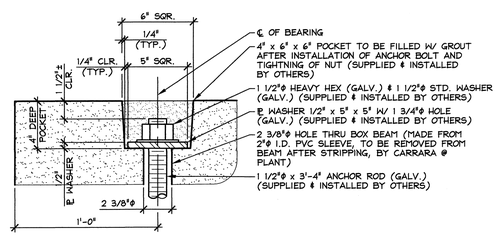
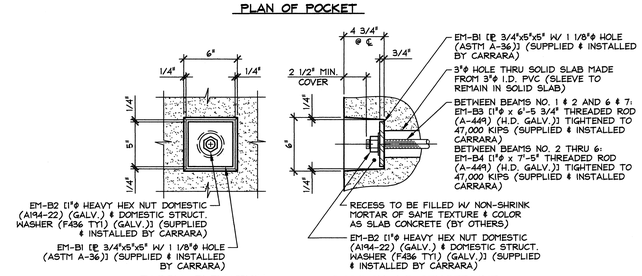
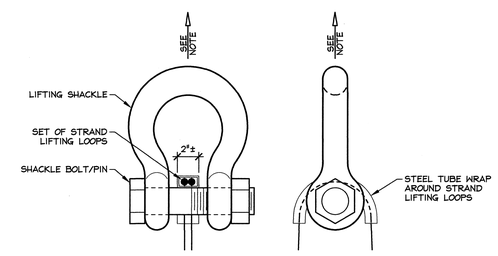


SECTION @ BEAM ℄

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



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



NOTE: SLAB SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL FORCES ARE APPLIED TO EACH SET OF LIFTING LOOPS AT EACH END OF THE SLAB. SHACKLE BOLT/PIN SHALL BE PLACED UNDER LIFT LOOPS AS SHOWN. DESIGN AND CONFIGURATION OF RIGGING BY PURCHASER.

LIFTING SHACKLE DETAILS
N.T.S.

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TOWN OF BRATTLEBORO
TH 12, CLASS III (LOCAL ROAD) OVER HALLADAY BROOK
BRIDGE NO.: 7 PROJECT NO.: BRO 1442(35)

CHKD: M.D. DFTM: B.L.
JOB NO: 23424-014

SUPERSTRUCTURE DETAILS

DWG. NO: F2

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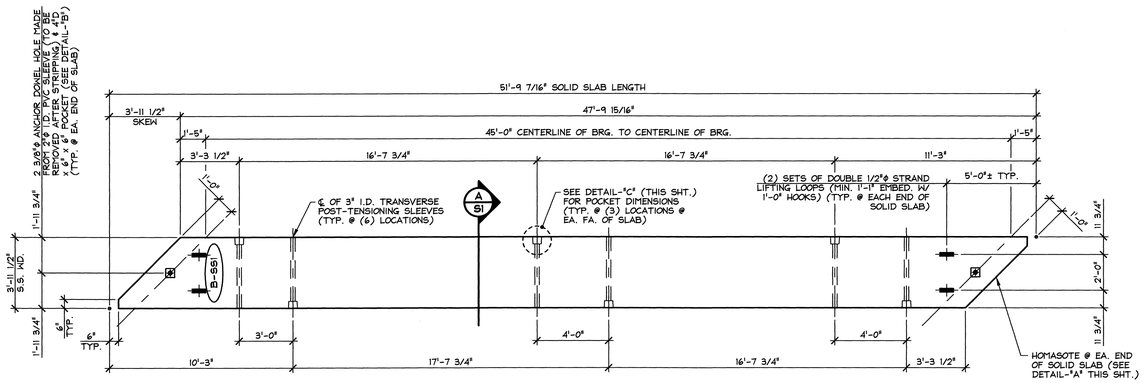
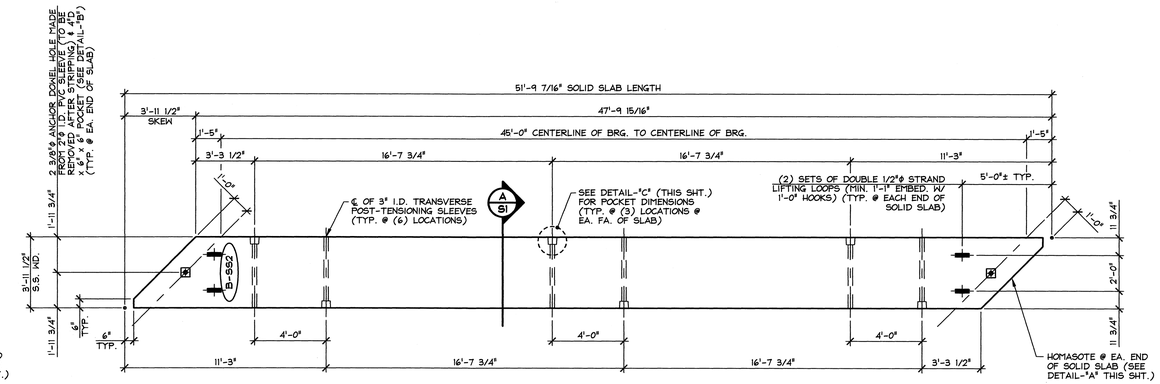
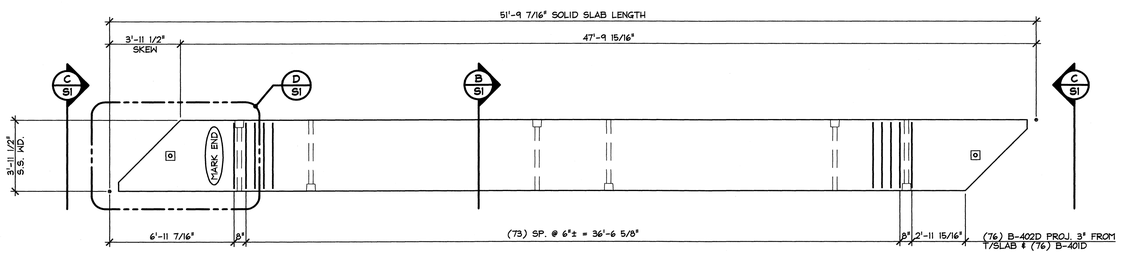


1 S1 DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"

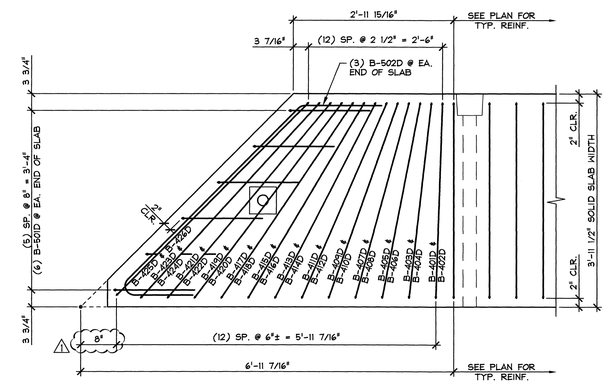


2 S1 DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



3 S1 REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"

SHOP NOTE:
ADJUST REINFORCING AS REQUIRED TO CLEAR INSERTS, SLEEVES, ETC.

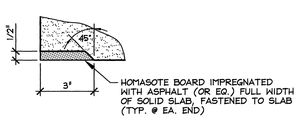


D S1 END BLOCK REINFORCING PLAN
3/4" = 1'-0"

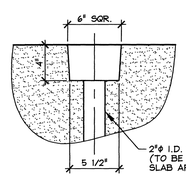
MARK:	B-SS1	QTY.: 2	WT.: 17.4 T	VOL.: 8.6 cy
MARK:	B-SS2	QTY.: 3	WT.: 17.4 T	VOL.: 8.6 cy

MATERIAL LIST / SOLID SLAB

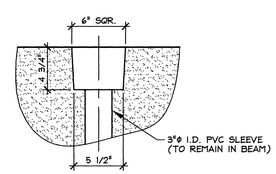
ITEM	MARK	DESCRIPTION	QTY./SLAB B-SS1	QTY./SLAB B-SS2
1	B-401D	#4 BENT BAR (LEVEL II, DUAL COATED)	78	78
2	B-402D	#4 BENT BAR (LEVEL II, DUAL COATED)	78	78
3	B-403D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
4	B-404D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
5	B-405D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
6	B-406D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
7	B-407D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
8	B-408D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
9	B-409D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
10	B-410D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
11	B-411D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
12	B-412D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
13	B-413D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
14	B-414D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
15	B-415D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
16	B-416D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
17	B-417D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
18	B-418D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
19	B-419D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
20	B-420D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
21	B-421D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
22	B-422D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
23	B-423D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
24	B-424D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
25	B-425D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
26	B-426D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	2
27				
28	B-501D	#5 BENT BAR (LEVEL II, DUAL COATED)	12	12
29	B-502D	#5 BENT BAR (LEVEL II, DUAL COATED)	6	6
30				
31				
32		SET OF DOUBLE 1/2"φ x 270 KSI STRAND LIFTING LOOPS	4	4
33				
34				
35				



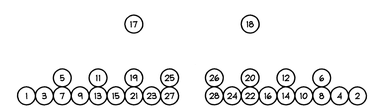
DETAIL - "A"
3" = 1'-0"



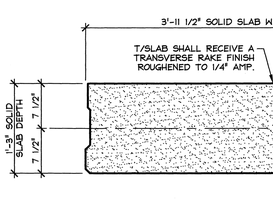
DETAIL - "B"
1 1/2" = 1'-0"



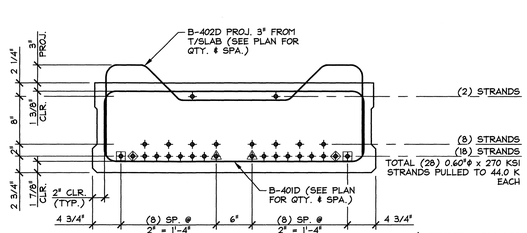
DETAIL - "C"
1 1/2" = 1'-0"



DETENSIONING SCHEDULE
N.T.S.

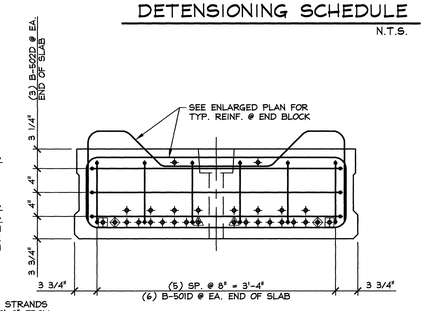


A S1 DIMENSIONAL SECTION
1" = 1'-0"



B S1 REINFORCING SECTION
1" = 1'-0"

◆ DENOTES STRAIGHT STRANDS TO BE DEBONDED 10'-0" FROM EA. END OF EA. SLAB
◈ DENOTES STRAIGHT STRANDS TO BE DEBONDED 12'-0" FROM EA. END OF EA. SLAB
⊞ DENOTES STRAIGHT STRANDS TO BE DEBONDED 14'-0" FROM EA. END OF EA. SLAB



C S1 END BLOCK REINF. SECTION
1" = 1'-0"

△1 4-24-14 REVISE REINFORCING

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TOWN OF BRATTLEBORO
TH 12, CLASS III (LOCAL ROAD) OVER HALLADAY BROOK
BRIDGE NO.: 7 PROJECT NO.: BRO 1442(35)

PRESTRESSED SOLID SLAB DETAILS

DATE: MAR. 24, 2014
SCALE: NOTED
CHKD: M.D. DFTM: B.L.
JOB NO: 23424-014
DWG. NO: S1

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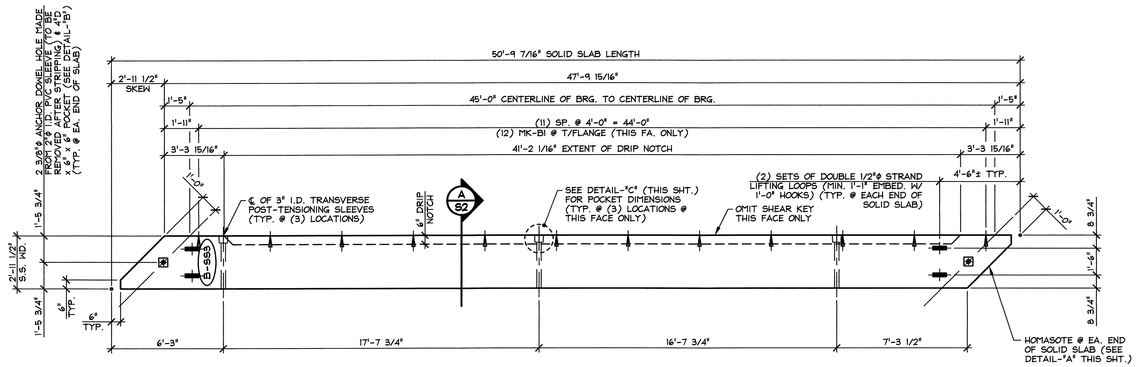
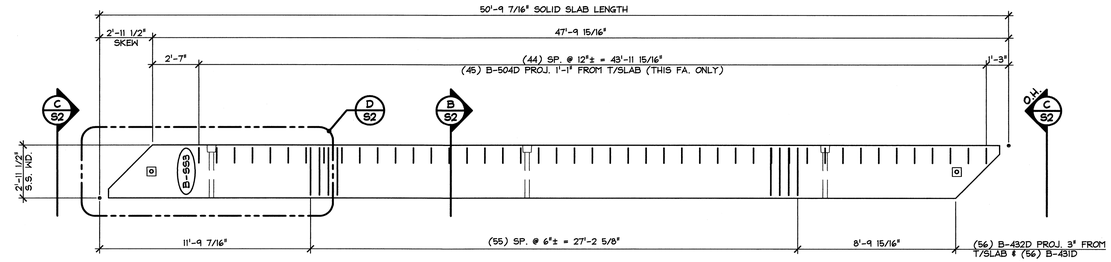
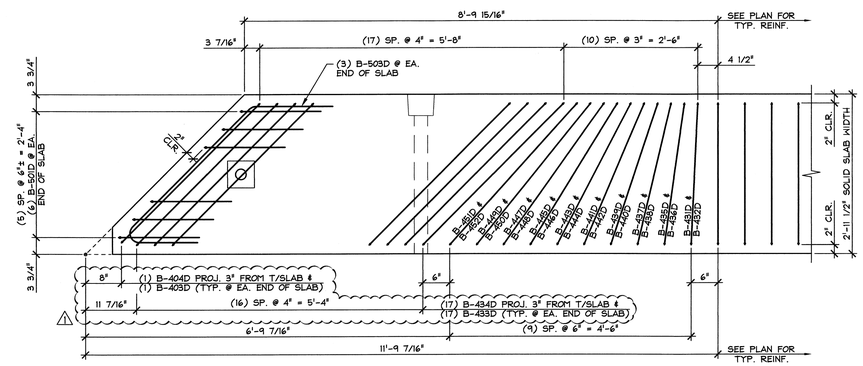


1 S2 DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"

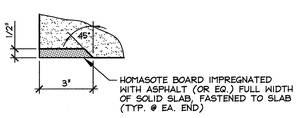


2 S2 REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"

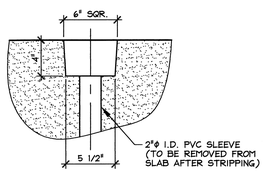
SHOP NOTE:
ADJUST REINFORCING AS REQUIRED TO CLEAR INSERTS, SLEEVES, ETC.



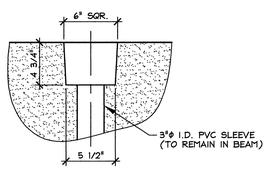
D S2 END BLOCK REINFORCING PLAN
CURB REINFORCING NOT SHOWN FOR CLARITY
3/4" = 1'-0"



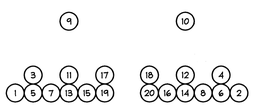
DETAIL - "A"
3" = 1'-0"



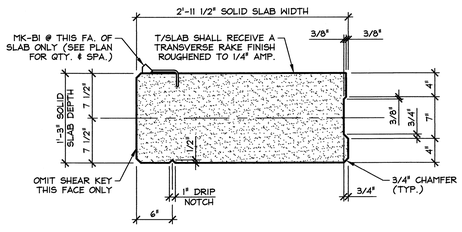
DETAIL - "B"
1 1/2" = 1'-0"



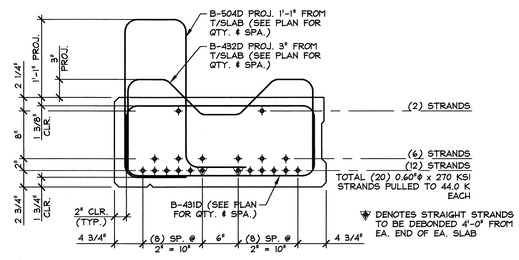
DETAIL - "C"
1 1/2" = 1'-0"



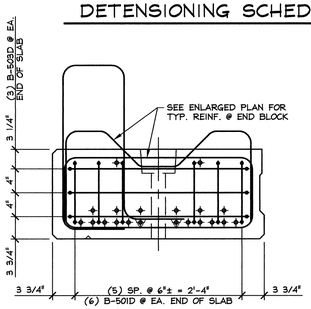
DETENSIONING SCHEDULE
N.T.S.



A S2 DIMENSIONAL SECTION
1" = 1'-0"



B S2 REINFORCING SECTION
1" = 1'-0"



C S2 END BLOCK REINF. SECTION
1" = 1'-0"

MARK:	B-SS3	QTY.: 1	WT.: 13.1 T	VOL.: 6.5 cy
MARK:	–	QTY.: –	WT.: –	VOL.: –

MATERIAL LIST / SOLID SLAB

ITEM	MARK	DESCRIPTION	QTY./SLAB B-SS3	QTY./SLAB –
1	B-403D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
2	B-404D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
3	B-431D	#4 BENT BAR (LEVEL II, DUAL COATED)	58	
4	B-432D	#4 BENT BAR (LEVEL II, DUAL COATED)	58	
5	B-433D	#4 BENT BAR (LEVEL II, DUAL COATED)	34	
6	B-434D	#4 BENT BAR (LEVEL II, DUAL COATED)	34	
7	B-435D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
8	B-436D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
9	B-437D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
10	B-438D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
11	B-439D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
12	B-440D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
13	B-441D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
14	B-442D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
15	B-443D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
16	B-444D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
17	B-445D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
18	B-446D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
19	B-447D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
20	B-448D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
21	B-449D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
22	B-450D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
23	B-451D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
24	B-452D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
25	B-501D	#5 BENT BAR (LEVEL II, DUAL COATED)	12	
26	B-503D	#5 BENT BAR (LEVEL II, DUAL COATED)	6	
27	B-504D	#5 BENT BAR (LEVEL II, DUAL COATED)	45	
28				
29	MK-B1	DAYTON C-24 TYPE 4-APR DECK FORM HANGER (GALV.)	12	
30		SET OF DOUBLE 1/2"ϕ x 270 KSI STRAND LIFTING LOOPS	4	

△1 4-24-14 REVISE REINFORCING

APPROVAL STAMP:

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

RENAUD BRO., INC.
CONTRACTOR
VERNON, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDHAM

TOWN OF BRATTLEBORO
TH 12, CLASS III (LOCAL ROAD) OVER HALLADAY BROOK
BRIDGE NO.: 7 PROJECT NO.: BRO 1442(35)

PRESTRESSED SOLID SLAB DETAILS

DATE: MAR. 24, 2014
SCALE: NOTED
CHKD: M.D. DFTM: B.L.
JOB NO: 23424-014
DWG. NO: S2

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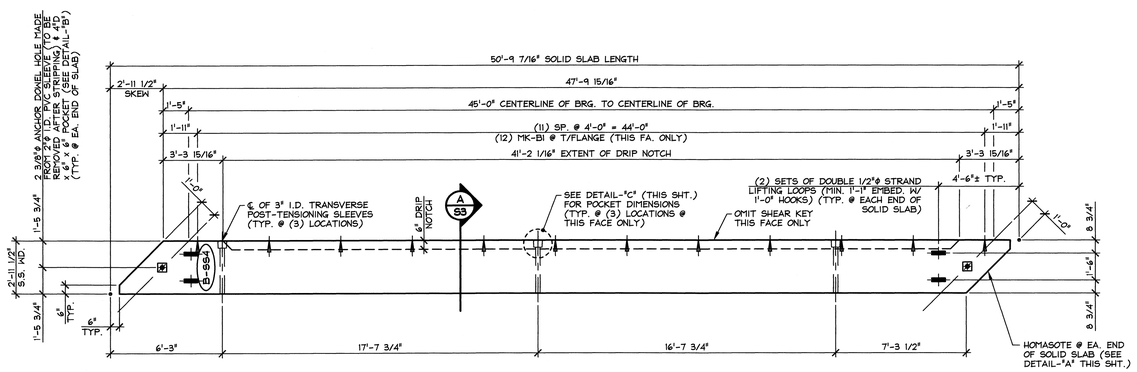
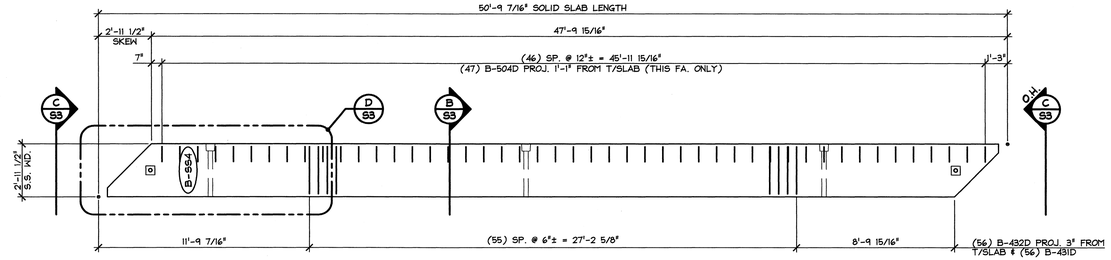
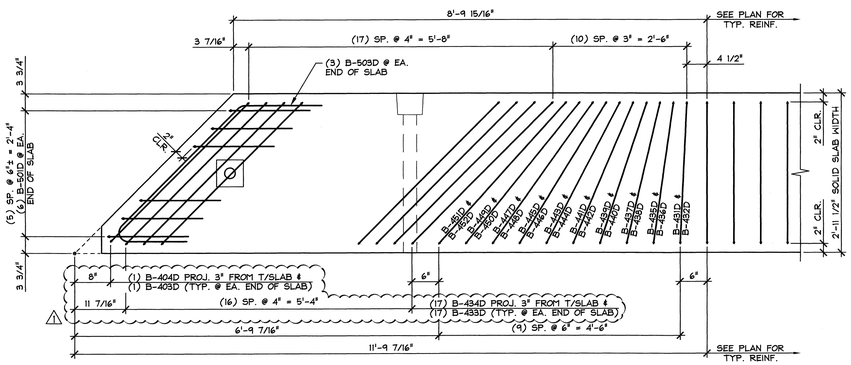


1 / S3 DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



2 / S3 REINFORCING PLAN VIEW IN FORM
1/4" = 1'-0"

SHOP NOTE:
ADJUST REINFORCING AS REQUIRED TO CLEAR INSERTS, SLEEVES, ETC.

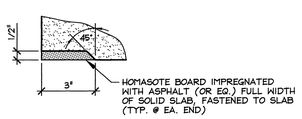


D / S3 END BLOCK REINFORCING PLAN
CURB REINFORCING NOT SHOWN FOR CLARITY
3/4" = 1'-0"

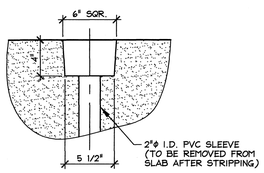
MARK:	B-SS4	QTY.: 1	WT.: 13.1 T	VOL.: 6.5 cy
MARK:	-	QTY.: -	WT.: -	VOL.: -

MATERIAL LIST / SOLID SLAB

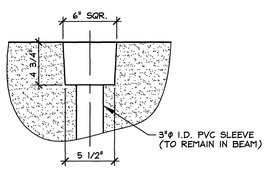
ITEM	MARK	DESCRIPTION	QTY./SLAB B-SS4	QTY./SLAB -
1	B-403D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
2	B-404D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
3	B-431D	#4 BENT BAR (LEVEL II, DUAL COATED)	58	
4	B-432D	#4 BENT BAR (LEVEL II, DUAL COATED)	58	
5	B-433D	#4 BENT BAR (LEVEL II, DUAL COATED)	34	
6	B-434D	#4 BENT BAR (LEVEL II, DUAL COATED)	34	
7	B-435D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
8	B-436D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
9	B-437D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
10	B-438D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
11	B-439D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
12	B-440D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
13	B-441D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
14	B-442D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
15	B-443D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
16	B-444D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
17	B-445D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
18	B-446D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
19	B-447D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
20	B-448D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
21	B-449D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
22	B-450D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
23	B-451D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
24	B-452D	#4 BENT BAR (LEVEL II, DUAL COATED)	2	
25	B-501D	#5 BENT BAR (LEVEL II, DUAL COATED)	12	
26	B-503D	#5 BENT BAR (LEVEL II, DUAL COATED)	6	
27	B-504D	#5 BENT BAR (LEVEL II, DUAL COATED)	47	
28				
29	MK-BI	DAYTON C-24 TYPE 4-APR DECK FORM HANGER (GALV.)	12	
30		SET OF DOUBLE 1/2"ϕ x 270 KSI STRAND LIFTING LOOPS	4	



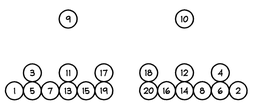
DETAIL - "A"
3" = 1'-0"



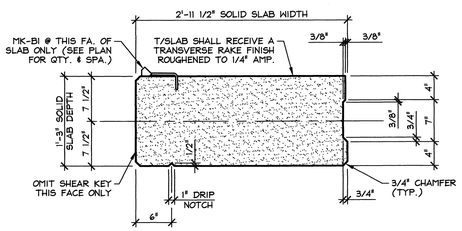
DETAIL - "B"
1 1/2" = 1'-0"



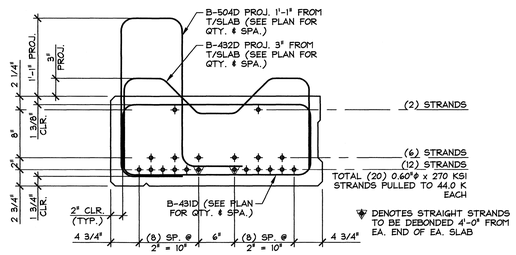
DETAIL - "C"
1 1/2" = 1'-0"



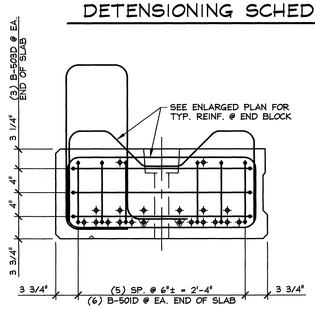
DETENSIONING SCHEDULE
N.T.S.



A / S3 DIMENSIONAL SECTION
1" = 1'-0"



B / S3 REINFORCING SECTION
1" = 1'-0"



C / S3 END BLOCK REINF. SECTION
1" = 1'-0"

△1 4-24-14 REVISE REINFORCING

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
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RENAUD BRO., INC.
CONTRACTOR
VERNON, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDHAM

DATE: MAR. 24, 2014
SCALE: NOTED

TOWN OF BRATTLEBORO
TH 12, CLASS III (LOCAL ROAD) OVER HALLADAY BROOK
BRIDGE NO.: 7 PROJECT NO.: BRO 1442(35)

CHKD: M.D. DFTM: B.L.
JOB NO: 23424-014

PRESTRESSED SOLID SLAB DETAILS

DWG. NO: S3

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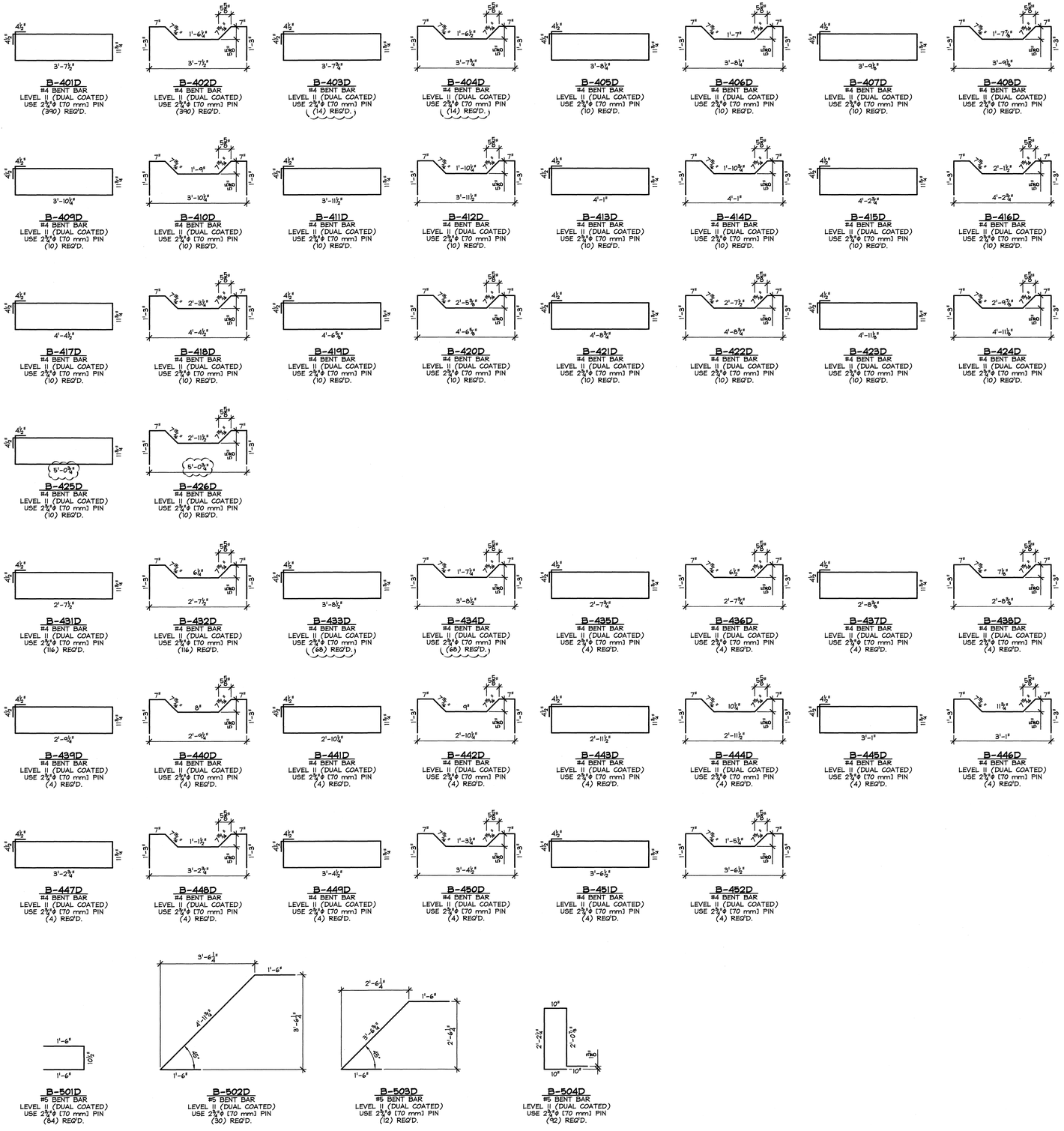
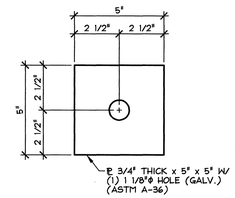


MISCELLANEOUS MATERIALS

ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1				
2				
3				
4	EM-B1	36	ℙ 3/4" x 5" x 5" W/ 1 1/8"Φ HOLE (GALV.) (ASTM A-36)	FOR ERECTION; SEE DETAIL THIS SHEET
5	EM-B2	36	1"Φ HEAVY HEX NUT DOMESTIC (A194-22) (GALV.) & DOMESTIC STRUCTURAL WASHER (F436 TY1) (GALV.)	FOR ERECTION
6	EM-B3	6	1"Φ x 6'-5 3/4" THREADED ROD (A-449) (H.D. GALV.)	FOR ERECTION
7	EM-B4	12	1"Φ x 7'-5" THREADED ROD (A-449) (H.D. GALV.)	FOR ERECTION
8		18	COMPRESSIBLE SEALER SELF ADHESIVE	FOR ERECTION
9				
10				
11				
12				
13				
14				
15	MK-B1	24	DAYTON C-24 TYPE 4-APR DECK FORM HANGER (GALV.)	
16		28	SET OF DOUBLE 1/2"Φ x 270 KSI STRAND LIFTING LOOPS	
17				
18				
19				
20				



EM - B1
3" = 1'-0"

△1 4-24-14 REVISE REINFORCING

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MATERIALS LIST

DATE: MAR. 24, 2014
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JOB NO: 23424-014
DWG. NO: M1

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