

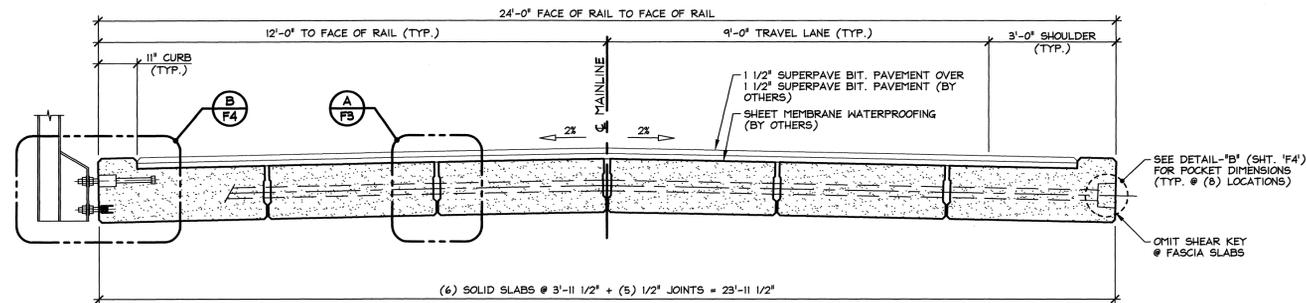
1 PRESTRESSED SOLID SLAB & PRECAST APPROACH SLAB LAYOUT
 F2 1/4" = 1'-0"



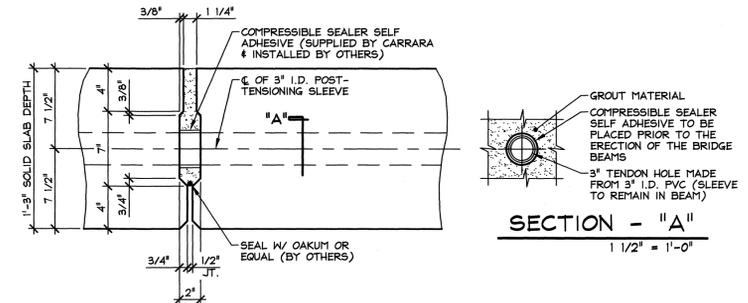
Vermont Agency of Transportation
RECEIVED
 CK'D BY RK/JW OK'D BY RY
 February 12, 2015
 RESUBMIT No Approved
 BY RY DATE 02/12/2015

2-10-15 REVISED PER VT AOT COMMENTS

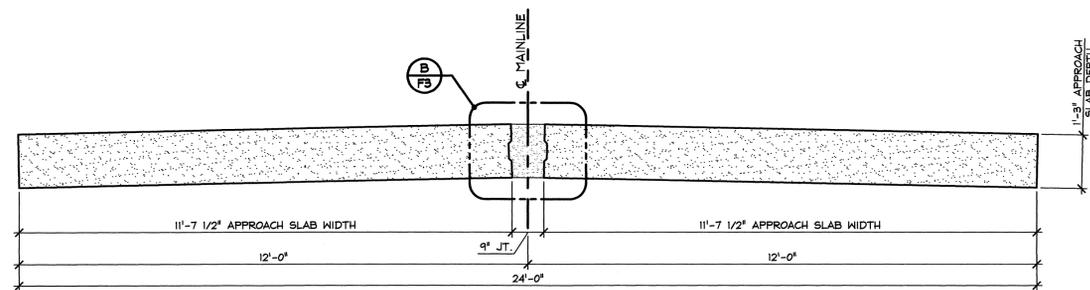
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 244 GAGE ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010		A.L. St. ONGE CONTRACTOR MONTGOMERY, VERMONT	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: NOV. 10, 2014	SCALE: NOTED
	TOWN OF FAIRFIELD SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 14 PROJECT NO.: BRP 0281(25)		CHKD: B.C. DFTM: B.L.	JOB NO: 23446-014
	PRESTRESSED SOLID SLAB & PRECAST APPROACH SLAB LAYOUT		DWG. NO:	F2



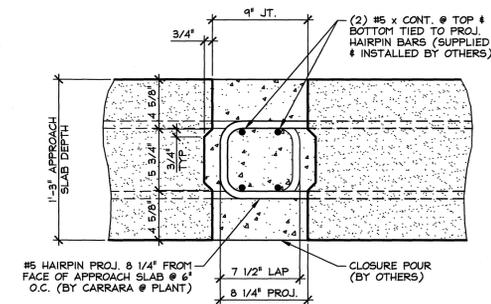
1 PRESTRESSED SOLID SLAB TRANSVERSE SECTION
 F3 1/2" = 1'-0"



A SHEAR KEY SECTION @
 F3 P.T. SLEEVE 1/2" = 1'-0"



2 PRECAST APPROACH SLAB TRANSVERSE SECTION
 F3 1/2" = 1'-0"



B SHEAR KEY SECTION @
 F3 APPROACH SLABS 1/2" = 1'-0"

Vermont Agency of Transportation
RECEIVED

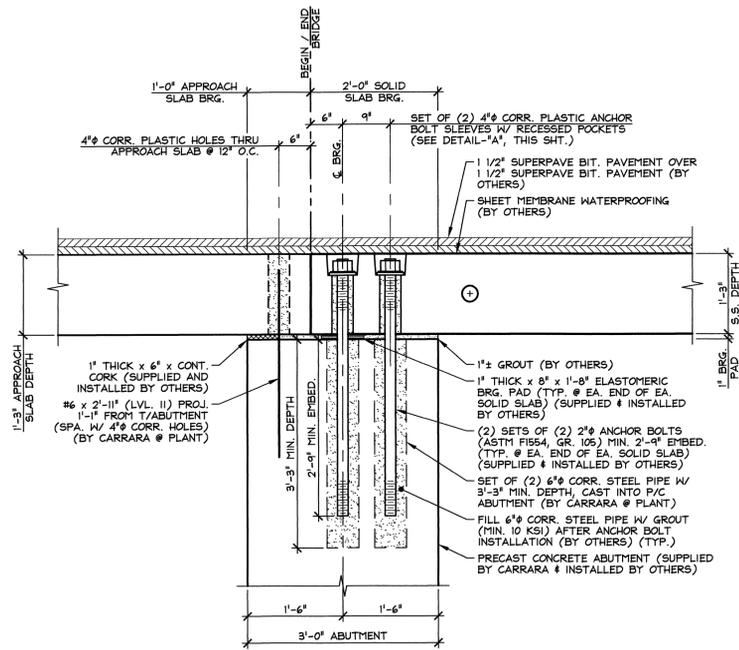
CK'D BY RKJW OK'D BY RY

February 12, 2015

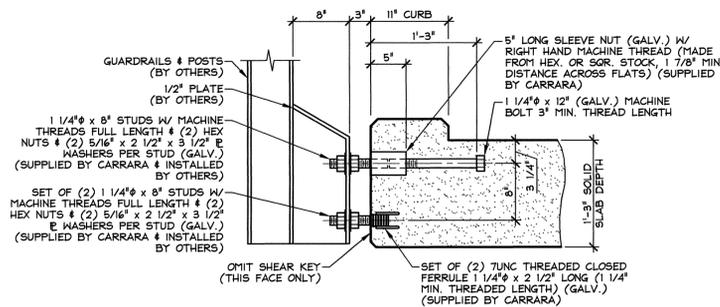
RESUBMIT No Approved
 BY RY DATE 02/12/2015

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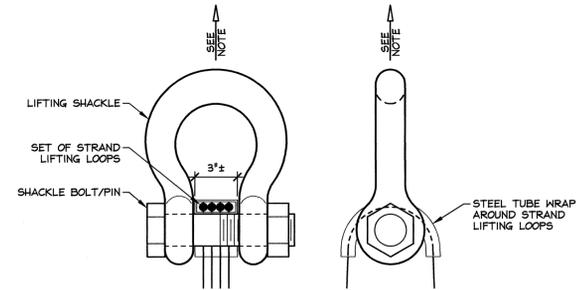
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CARR ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		A.L. ST. ONGE CONTRACTOR MONTMERY, VERMONT	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: NOV. 10, 2014 SCALE: NOTED	
	TOWN OF FAIRFIELD SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 14 PROJECT NO.: BRJ 0281(25)		CHKD: B.C. DFTM: B.L. JOB NO: 23446-014	
	TRANSVERSE SECTIONS		DWG. NO: F3	



A BEARING SECTION
 F4 3/4" = 1'-0"

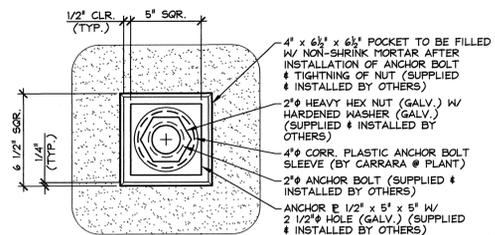


B GUARDRAIL ANCHORAGE SECTION
 F4 1" = 1'-0"

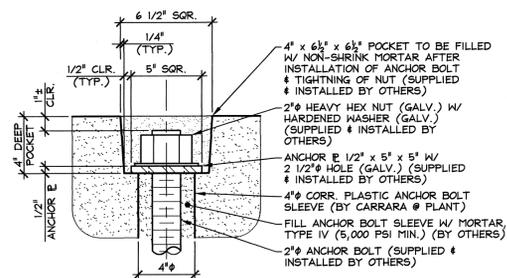


NOTE: ABUTMENTS SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL FORCES ARE APPLIED TO EACH SET OF LIFTING LOOPS AT EACH END OF THE SLAB. SHACKLE BOLT/PIN SHALL BE PLACED UNDER LIFT LOOPS AS SHOWN. DESIGN AND CONFIGURATION OF RIGGING BY PURCHASER.

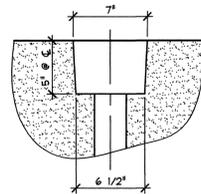
LIFTING SHACKLE DETAILS
 N.T.S.



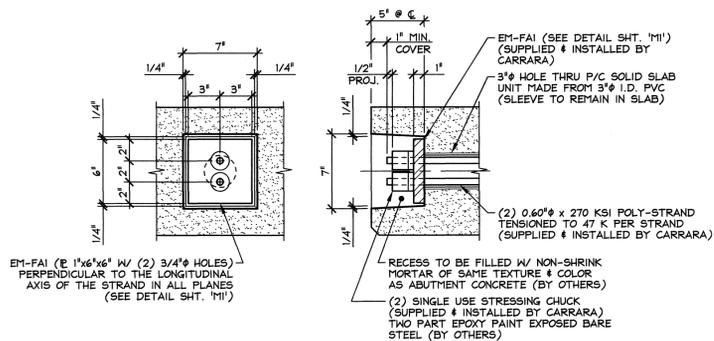
PLAN VIEW



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



PLAN OF POCKET



FASCIA ELEVATION SECTION AT CENTERLINE
 DETAIL - "B" 1 1/2" = 1'-0"

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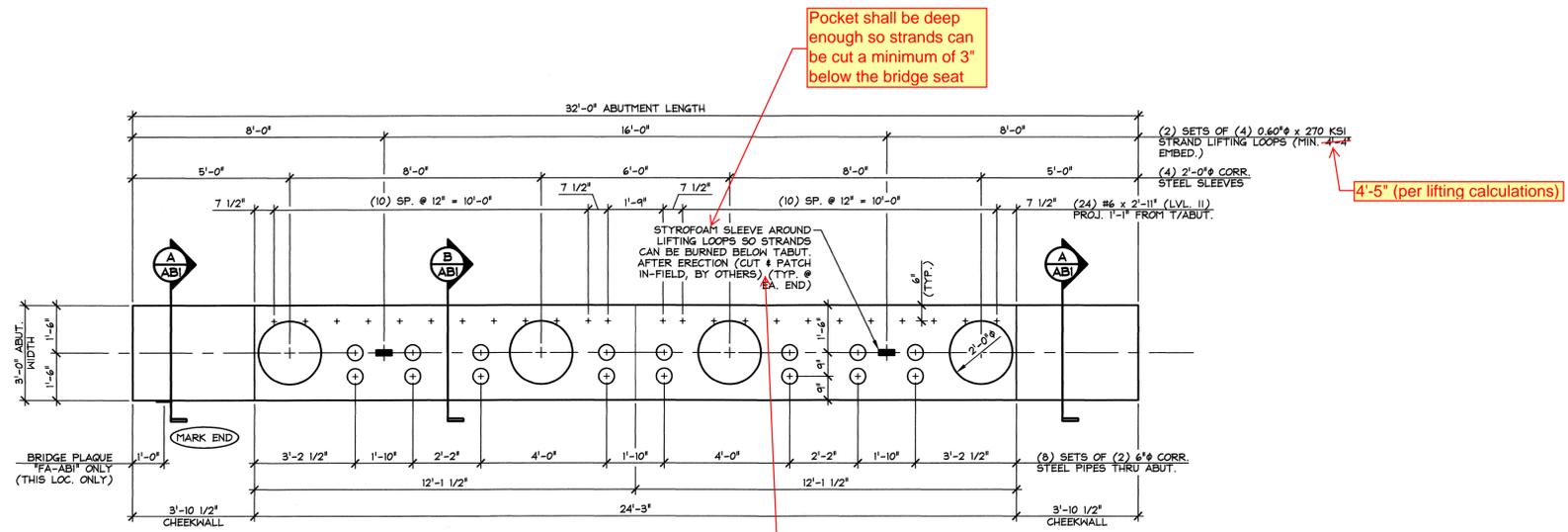
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February 12, 2015

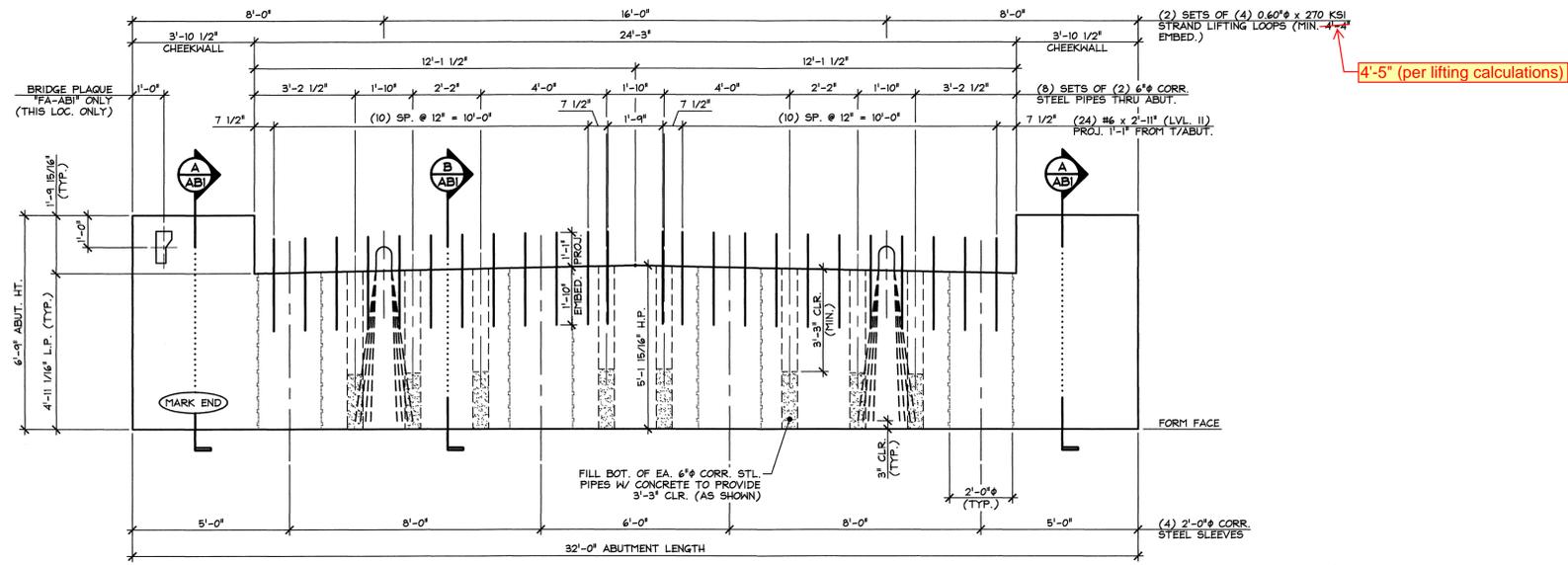
RESUBMIT No Approved
 BY RY DATE 02/12/2015

2-10-15 REVISED PER VT AOT COMMENTS

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010		A.L. St. ONGE CONTRACTOR MONTMERY, VERMONT	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: NOV. 10, 2014	SCALE: NOTED
	TOWN OF FAIRFIELD SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 14 PROJECT NO.: BRF 0281(25)		CHKD: B.C. DFTM: B.L.	JOB NO: 23446-014
	SECTIONS & DETAILS		DWG. NO:	F4



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



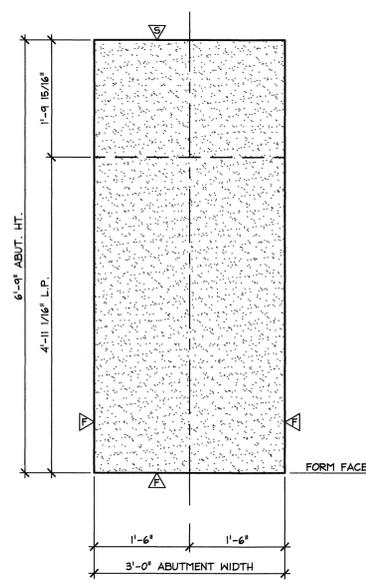
2 DIMENSIONAL ELEVATION VIEW IN FORM
3/8" = 1'-0"

Pocket shall be deep enough so strands can be cut a minimum of 3" below the bridge seat

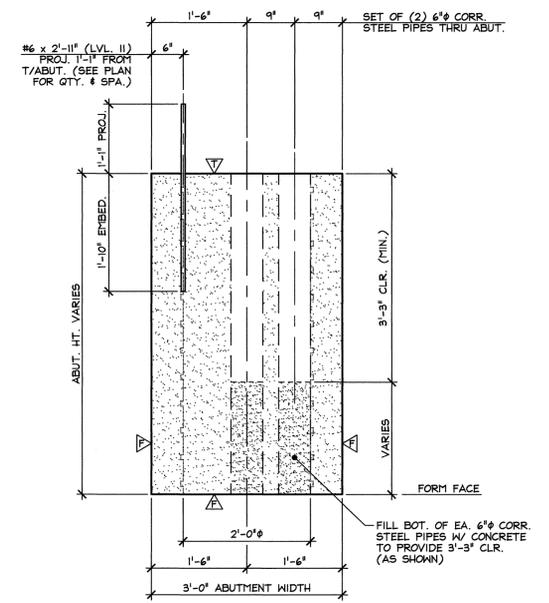
4'-5" (per lifting calculations)

After strands are cut 3" below the bridge seat, clean all debris from pocket including any loose concrete before filling pocket with Mortar, Type IV

4'-5" (per lifting calculations)



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



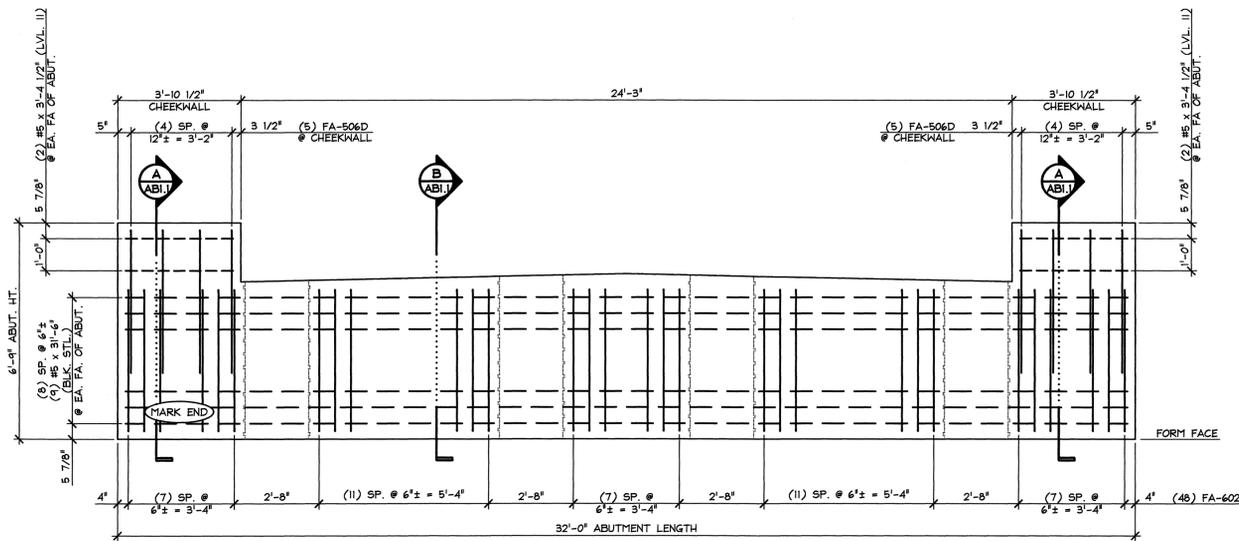
B ABUTMENT SECTION
3/4" = 1'-0"

- △ DENOTES FORM FINISH
- △ DENOTES FLOAT FINISH
- △ DENOTES SMOOTH TROWEL FINISH

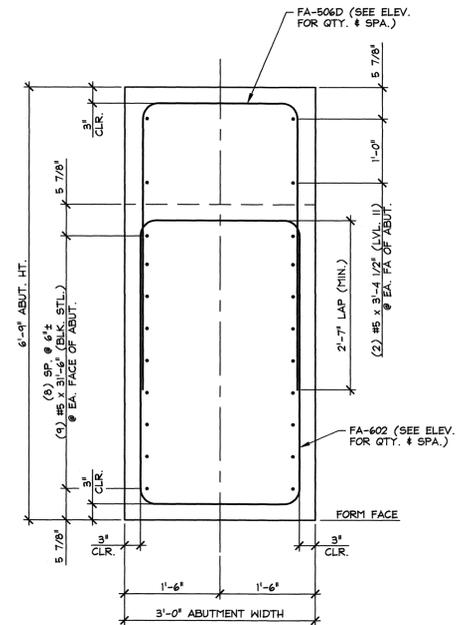
MARK: FA-AB1	QTY.: 1	WT.: 34.54 T	VOL.: 17.06 cy
MARK: FA-AB2	QTY.: 1	WT.: 34.54 T	VOL.: 17.06 cy
MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY./ABUT.
1		#6 x 2'-11" (LEVEL II, DUAL COATED)	24 24
2			
3			
4			
5			
6		BRIDGE PLAQUE (SUPPLIED BY OTHERS)	1
7		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2 2
8		6" x 5'-1 3/4" (MAX.) CORRUGATED STEEL SLEEVE (GALV.)	16 16
9		2'-0" x 5'-1 1/2" CORRUGATED STEEL SLEEVE (GALV.)	4 4
10			

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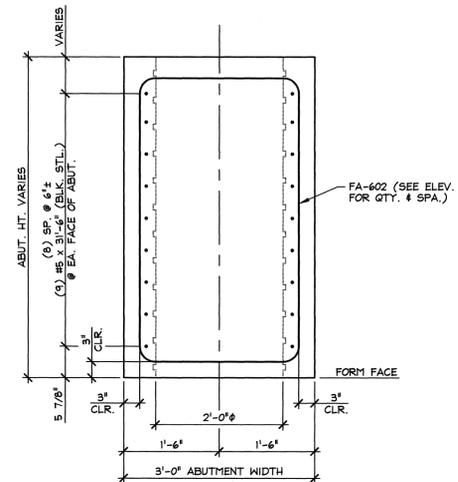
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 244 GEE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	A.L. ST. ONGE CONTRACTOR MONTMERY, VERMONT
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN	DATE: NOV. 10, 2014 SCALE: NOTED
	TOWN OF FAIRFIELD SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 14 PROJECT NO.: BRP 0281(25)	CHKD: B.C. DFTM: B.L. JOB NO: 23446-014
	PRECAST ABUTMENT DIMENSIONAL DETAILS	DWG. NO: AB1



1 REINFORCING ELEVATION VIEW IN FORM
ABI.1 3/8" = 1'-0"



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



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

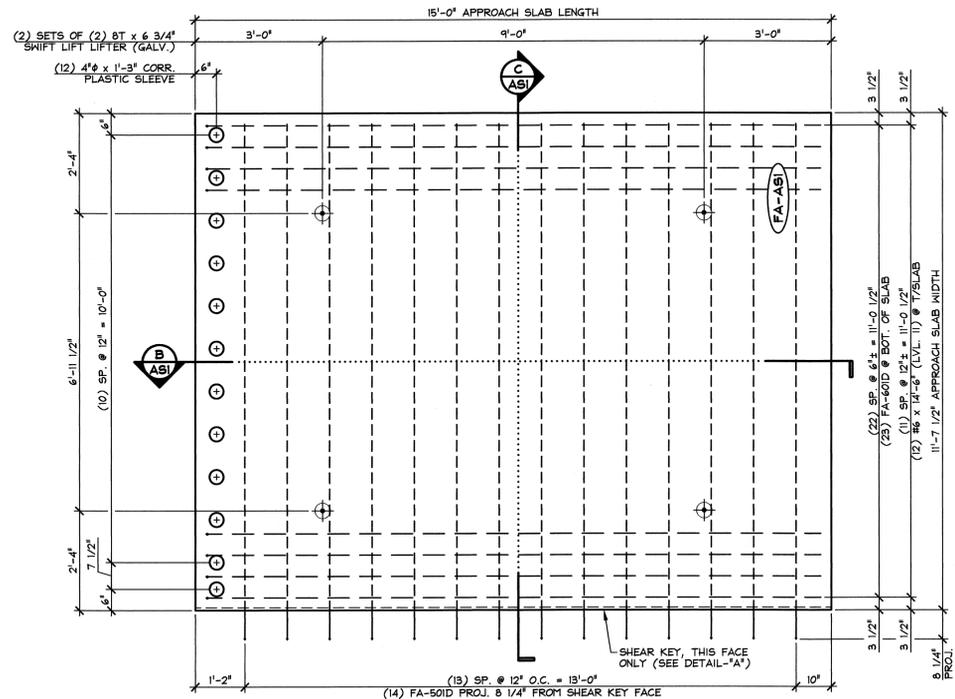
Vermont Agency of Transportation
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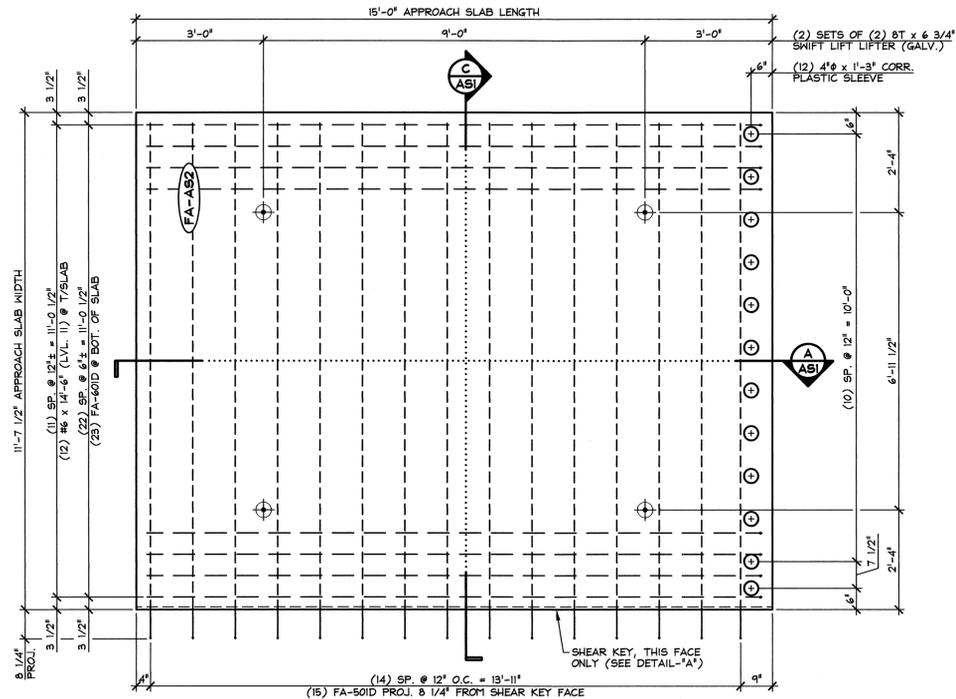
MARK: FA-AB1	QTY.: 1
MARK: FA-AB2	QTY.: 1

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1		#5 x 3'-6" (LEVEL I, BLACK STEEL)	18
2		#5 x 3'-4 1/2" (LEVEL II, DUAL COATED)	8
3			
4	FA-506D	#5 BENT BAR (LEVEL II, DUAL COATED)	10
5			
6	FA-602	#6 BENT BAR (LEVEL I, BLACK STEEL)	48
7			
8			
9			
10			

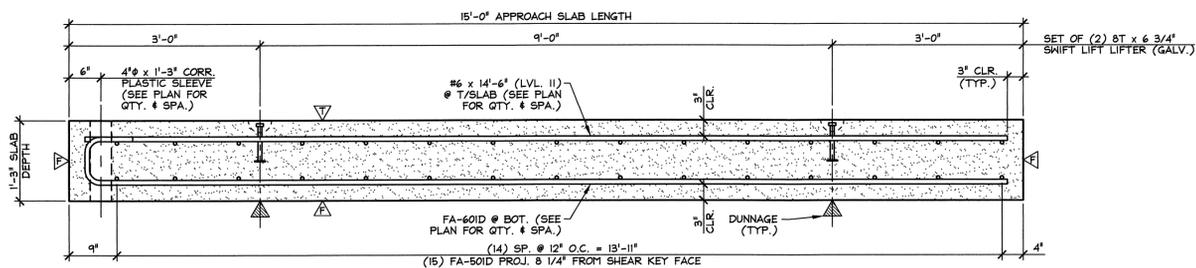
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		A.L. ST. ONGE CONTRACTOR MONTOMERY, VERMONT	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: NOV. 10, 2014 SCALE: NOTED	
	TOWN OF FAIRFIELD SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 14 PROJECT NO.: BRF 0281(25)		CHKD: B.C. DFTM: B.L. JOB NO: 23446-014	
	PRECAST ABUTMENT REINFORCING DETAILS		DWG. NO: ABI.1	



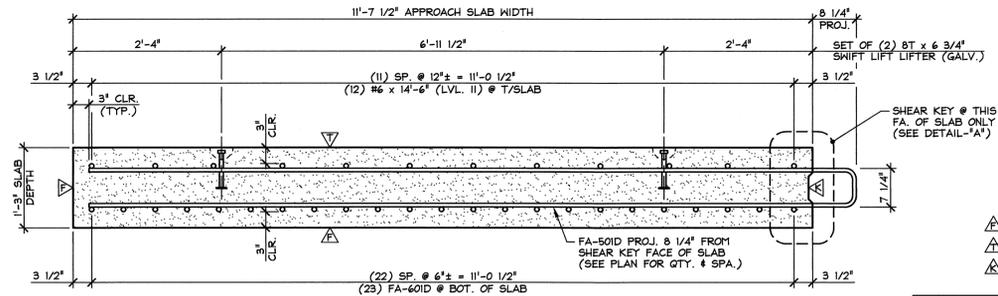
1 DIMENSIONAL PLAN VIEW IN FORM
ASI
1/2" = 1'-0"



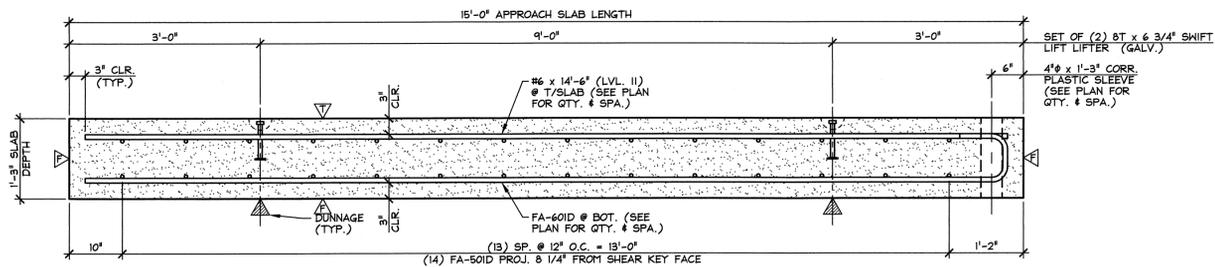
2 DIMENSIONAL PLAN VIEW IN FORM
ASI
1/2" = 1'-0"



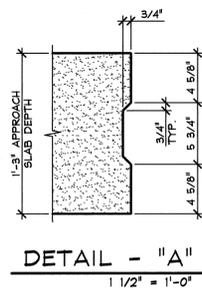
A LONGITUDINAL SECTION
ASI
3/4" = 1'-0"



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



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



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

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

MARK: FA-ASI	QTY.: 2	WT.: 16.32 T	VOL.: 8.06 cy
MARK: FA-AS2	QTY.: 2	WT.: 16.32 T	VOL.: 8.06 cy

MATERIAL LIST / APPROACH SLAB				
ITEM	MARK	DESCRIPTION	QTY./SLAB	
			ASI	AS2
1	FA-501D	#5 BENT BAR (LEVEL II, DUAL COATED)	14	15
2				
3	FA-601D	#6 BENT BAR (LEVEL II, DUAL COATED)	23	23
4		#6 x 14'-6" (LEVEL II, DUAL COATED)	12	12
5				
6				
7				
8		4" x 1'-3" CORRUGATED PLASTIC SLEEVE	12	12
9		8T x 6 3/4" SWIFT LIFT LIFTER (GALV.)	4	4
10				

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APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-8010

A.L. St. ONGE
CONTRACTOR
MONTGOMERY, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF FRANKLIN

DATE: NOV. 10, 2014

SCALE: NOTED

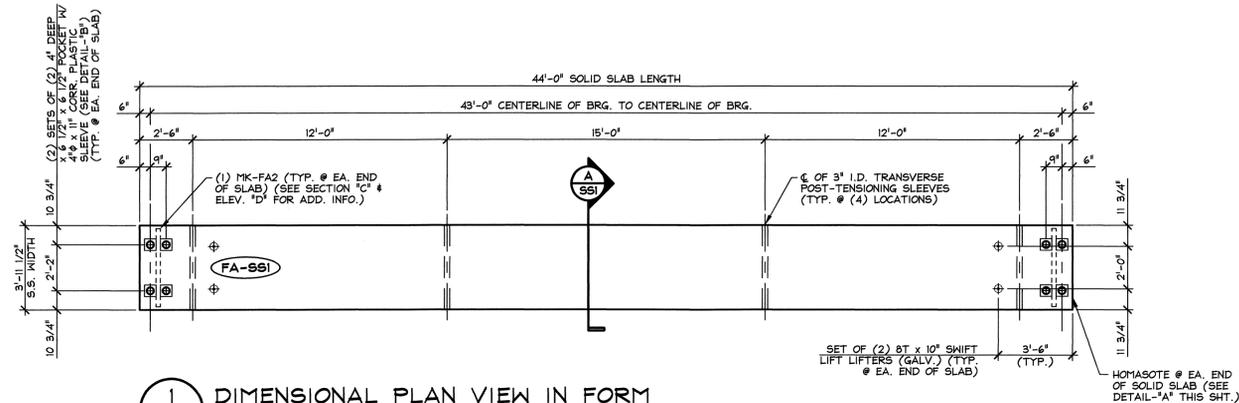
TOWN OF FAIRFIELD
SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 14 PROJECT NO.: BRF 0281(25)

CHKD: B.C. DFTM: B.L.

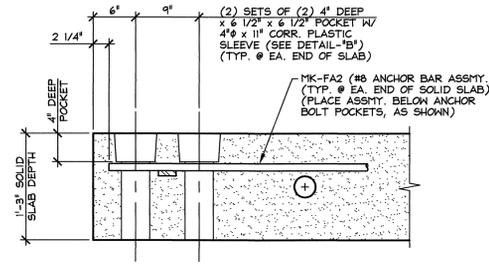
JOB NO: 23446-014

PRECAST APPROACH SLAB DETAILS

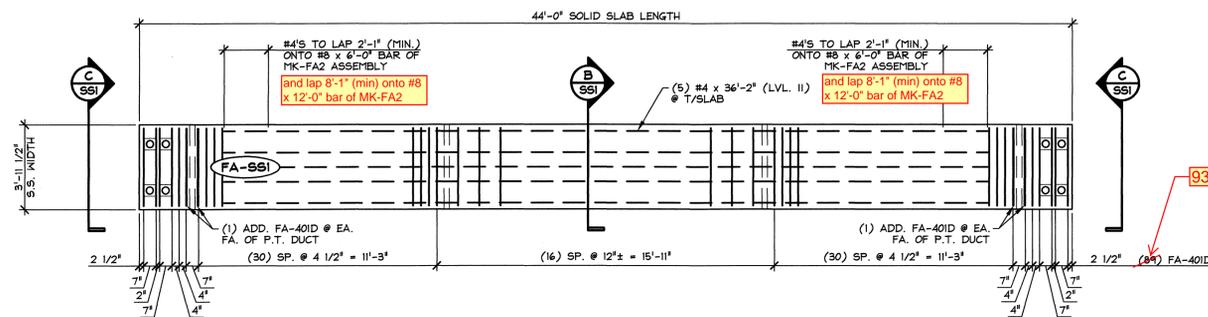
DWG. NO: ASI



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

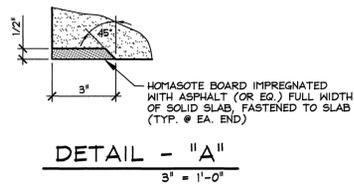


D SLAB END ELEVATION
SSI
1" = 1'-0"

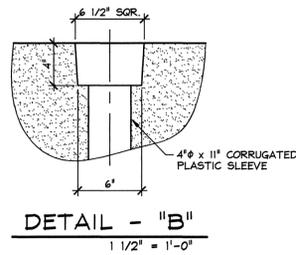


2 REINFORCING PLAN VIEW IN FORM
SSI
1/4" = 1'-0"

Note: MK-FA2 not shown for clarity. See Slab End Elevation detail this sheet for MK-FA2 placement.



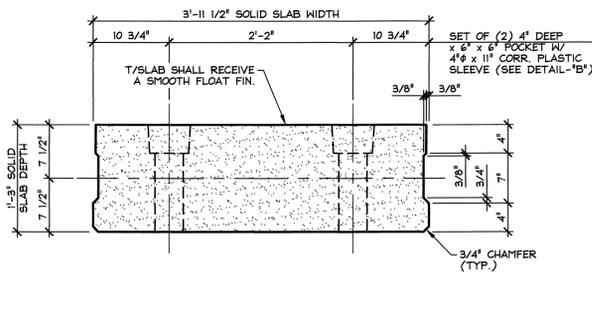
DETAIL - "A"
3" = 1'-0"



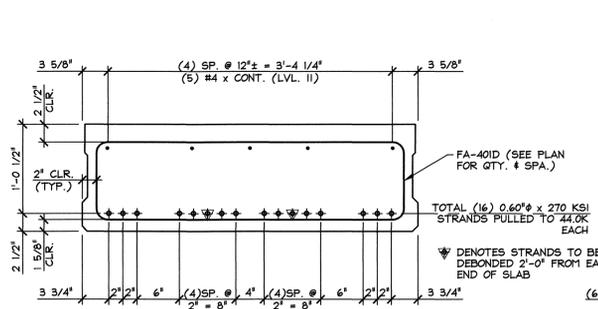
DETAIL - "B"
1 1/2" = 1'-0"

1 3 5 7 9 11 13 15 16 14 12 10 8 6 4 2

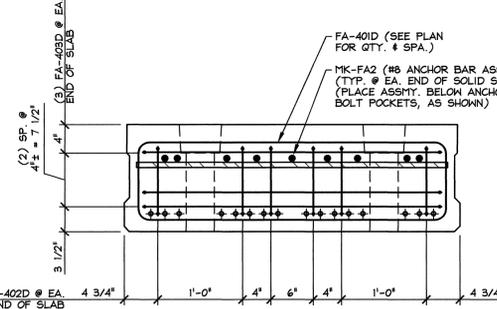
DETENSIONING SCHEDULE
N.T.S.



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



B REINFORCING SECTION
SSI @ MID-SPAN
1" = 1'-0"



C REINFORCING SECTION
SSI @ SLAB END
1" = 1'-0"

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MATERIAL LIST / SOLID SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	FA-401D	#4 BENT BAR (LEVEL II, DUAL COATED)	93
2	FA-402D	#4 BENT BAR (LEVEL II, DUAL COATED)	12
3	FA-403D	#4 BENT BAR (LEVEL II, DUAL COATED)	6
4		#4 x 36'-2" (LEVEL II, DUAL COATED)	5
5			
6			
7			
8	MK-FA2	ANCHOR BAR 3/4" THICK x 2 1/2" x 3'-8" (ASTM A36) W/ (3) #8 x 12'-0" & (6) #8 x 6'-0" (ASTM A-706) (GALV. ASSMTRY.)	2
9		8T x 10" SWIFT LIFT LIFTERS (GALV.)	4
10		4' x 11' CORRUGATED PLASTIC SLEEVE	8

APPROVAL STAMP:

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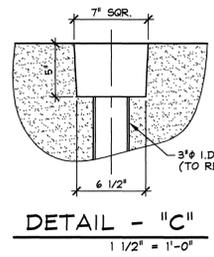
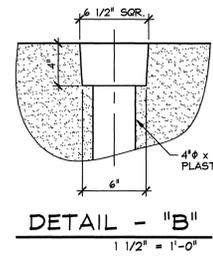
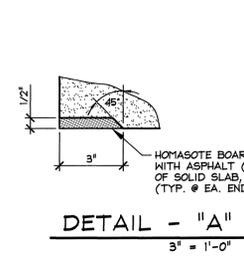
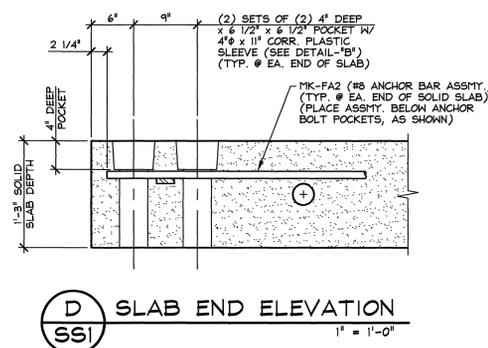
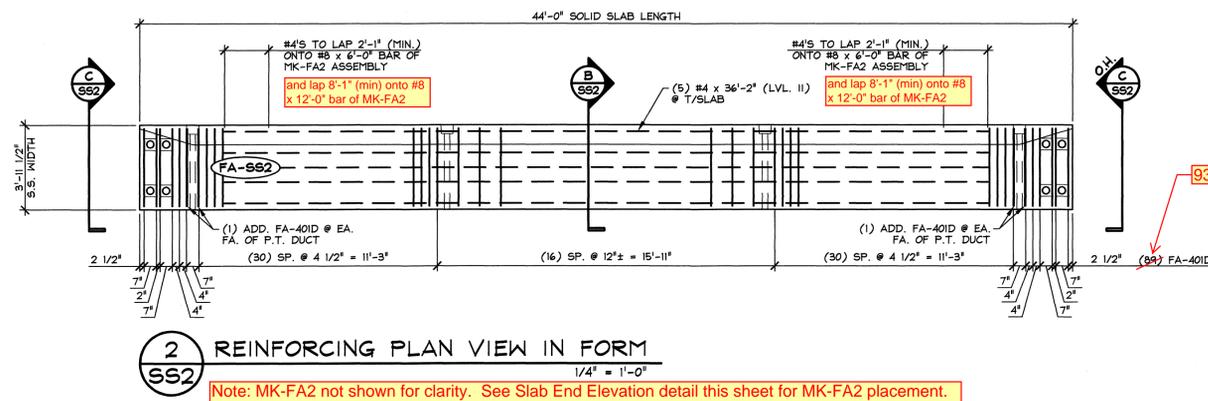
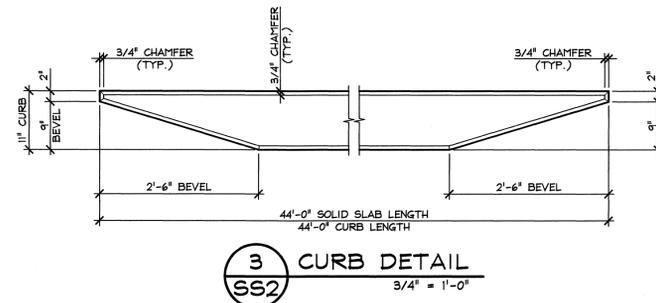
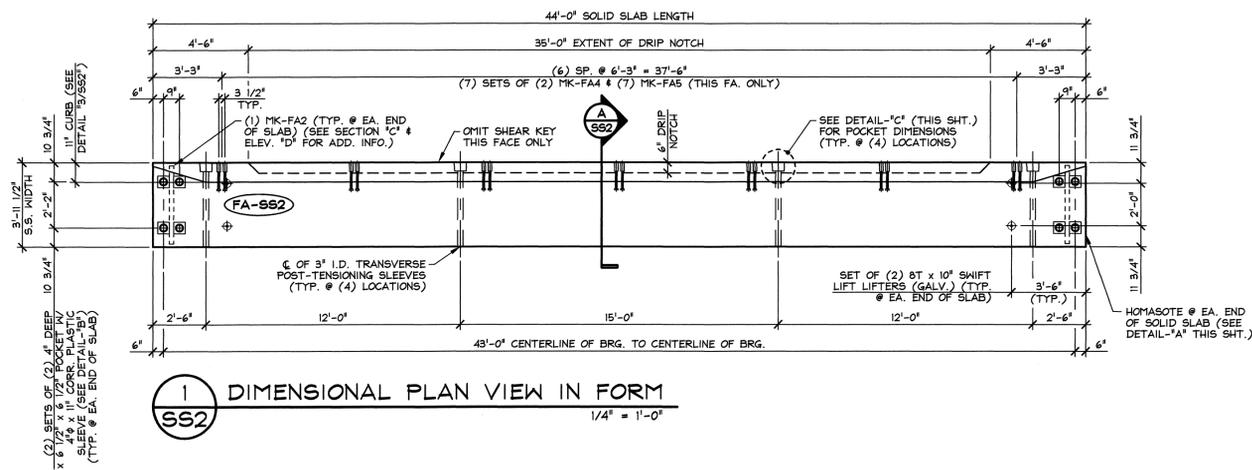
A.L. St. ONGE
CONTRACTOR
MONTMERY, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF FRANKLIN

DATE: NOV. 10, 2014
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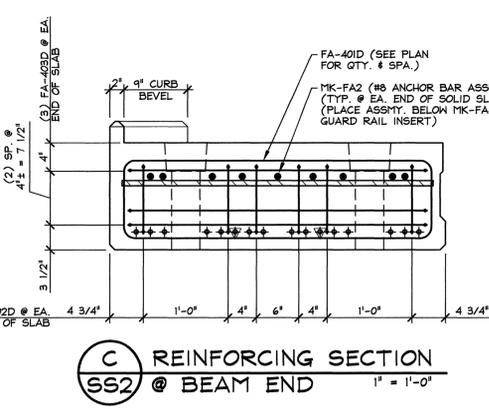
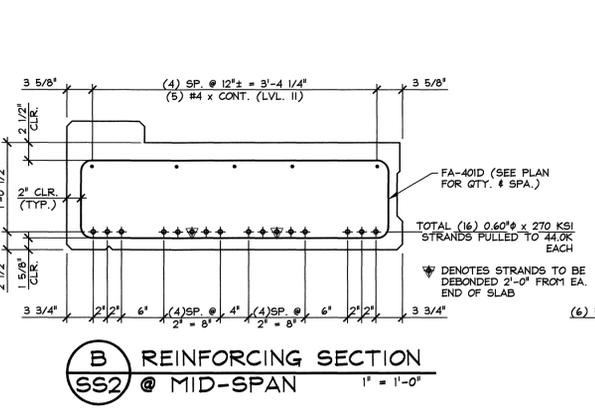
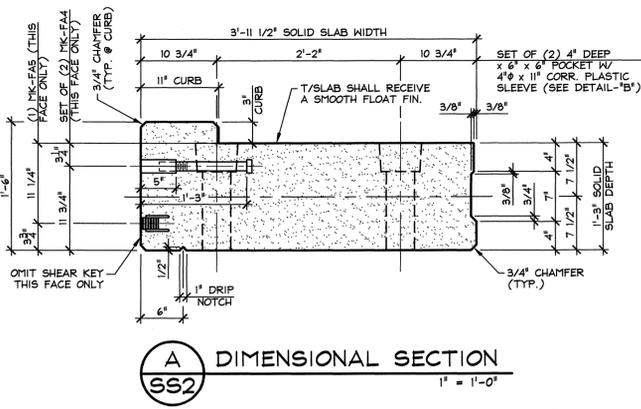
TOWN OF FAIRFIELD
SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 14 PROJECT NO.: BRF 0281(25)

PRESTRESSED SOLID SLAB DETAILS
DWG. NO: SSI



1 3 5 7 9 11 13 15 16 14 12 10 8 6 4 2

DETENSIONING SCHEDULE
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MARK: FA-SS2	QTY.: 2	WT.: 16.90 T	VOL.: 8.35 cy
MATERIAL LIST / SOLID SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	FA-401D	#4 BENT BAR (LEVEL II, DUAL COATED)	9B
2	FA-402D	#4 BENT BAR (LEVEL II, DUAL COATED)	12
3	FA-403D	#4 BENT BAR (LEVEL II, DUAL COATED)	6
4		#4 x 36'-2" (LEVEL II, DUAL COATED)	5
5			
6	MK-FA2	ANCHOR BAR 3/4" THICK x 2 1/2" x 3'-8" (ASTM A36) W/ 4" x 11" CORR. PLASTIC SLEEVE (SEE DETAIL-18") (TYP. @ EA. END OF SOLID SLAB)	2
7	MK-FA4	5" LG. SLEEVE NUT (GALV.) # 1 1/4" x 12" MACHINE BOLT (GALV.)	14
8	MK-FA5	2-BOLT FERRULE GUARD RAIL INSERT 1 1/4" x 12" (GALV.)	7
9		8T x 10" SWIFT LIFT LIFTERS (GALV.)	4
10		4" x 11" CORRUGATED PLASTIC SLEEVE	8

APPROVAL STAMP:

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Precast & Prestress Manufacturer
244 ONE STR. MIDDLEBURY, VERMONT 05753 Phone:(802)388-4361 Fax:(802)388-9010

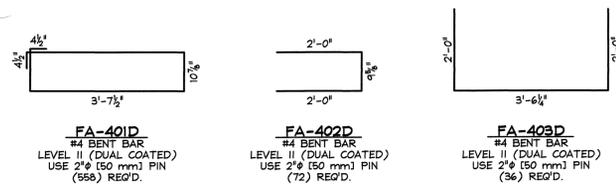
A.L. ST. ONGE
CONTRACTOR
MONTMERY, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF FRANKLIN

DATE: NOV. 10, 2014
SCALE: NOTED
CHKD: B.C. DFTM: B.L.
JOB NO: 23446-014
DWG. NO: **SS2**

TOWN OF FAIRFIELD
SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 14 PROJECT NO.: BRF 0281(25)

PRESTRESSED SOLID SLAB DETAILS

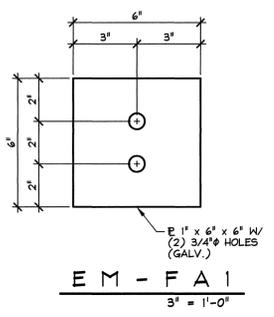


FA-401D
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2# 150 mm) PIN
(55#) REQ'D.

FA-402D
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2# 150 mm) PIN
(72) REQ'D.

FA-403D
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2# 150 mm) PIN
(36) REQ'D.

PRESTRESSED SOLID SLABS



EM - FA 1
3' = 1'-0"

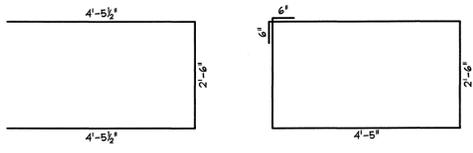
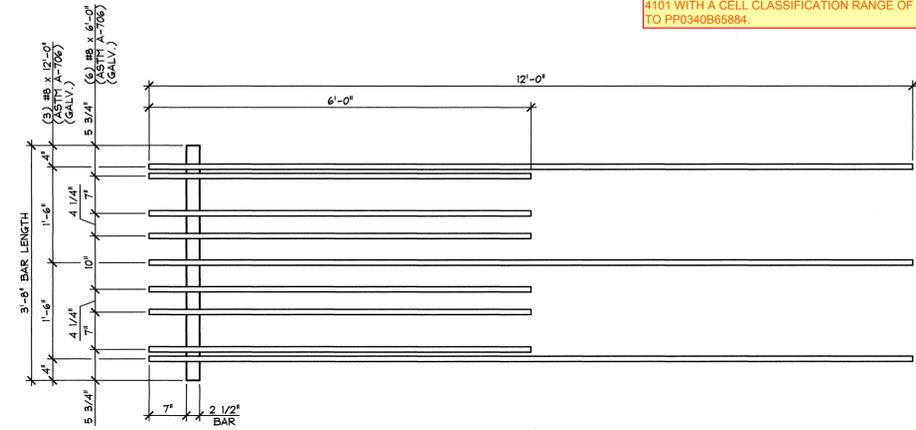
Material requirements per note 20, sheet 8/69 of contract plans:
CORRUGATED POST-TENSIONING DUCTS IN THE PRESTRESSED SLABS AND PRECAST APPROACH SLABS FOR ANCHOR BOLT AND DOWEL CONNECTIONS SHALL BE CONSTRUCTED FROM EITHER POLYETHYLENE OR POLYPROPYLENE. THE DUCT SHALL HAVE A MINIMUM MATERIAL THICKNESS OF 0.080 IN. +/- 0.010 IN. AND SHALL HAVE A WHITE COATING ON THE OUTSIDE OR SHALL BE OF WHITE MATERIAL WITH ULTRAVIOLET STABILIZERS ADDED. POLYETHYLENE DUCT SHALL BE FABRICATED FROM RESINS MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D 3350 WITH A CELL CLASSIFICATION OF 345464A. POLYPROPYLENE DUCT SHALL BE FABRICATED FROM RESINS MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D 4101 WITH A CELL CLASSIFICATION RANGE OF PP0340B44544 TO PP0340B65884.



FA-501D
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2# 70 mm) PIN
(58) REQ'D.

FA-601D
#6 BENT BAR
LEVEL II (DUAL COATED)
USE 4# 100 mm) PIN
(92) REQ'D.

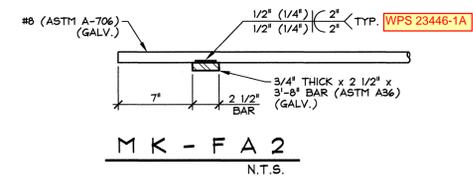
PRECAST APPROACH SLABS



FA-506D
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2# 70 mm) PIN
(20) REQ'D.

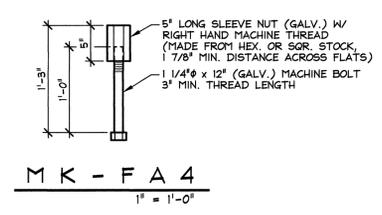
FA-602
#6 BENT BAR
LEVEL I (BLACK STEEL)
USE 4# 100 mm) PIN
(%) REQ'D.

PRECAST ABUTMENTS

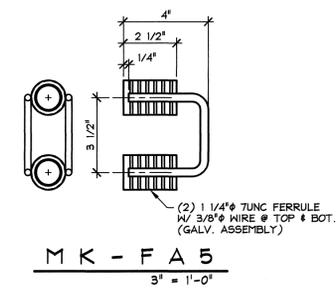


M K - FA 2
N.T.S.

NOTE:
AFTER MK-FA2 ASSEMBLY HAS BEEN GALVANIZED, ENTIRE ASSEMBLY SHALL BE COATED WITH TWO PART EPOXY REPAIR MATERIAL IN ACCORDANCE WITH LEVEL II, DUAL COATED REINFORCING STEEL MANUFACTURER INSTRUCTIONS.



M K - FA 4
1' = 1'-0"



M K - FA 5
3' = 1'-0"

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1	EM-FA1	8	1' x 6' x 6' W/ (2) 3/4" HOLES (GALV.)	FOR ERECTION, SEE DETAIL THIS SHEET
2		8	0.60" x 270 KSI x 26'-9" LONG POLY-STRAND	FOR ERECTION
3		16	0.60" SINGLE USE STRESSING CHUCK	FOR ERECTION
4				
5				
6		30	#4 x 36'-2" (LEVEL II, DUAL COATED)	
7				
8	MK-FA2	12	ANCHOR BAR 3/4" THICK x 2 1/2" x 3'-8" (ASTM A36) W/ (3) #8 x 12'-0" & (6) #8 x 6'-0" (ASTM A-706)	GALVANIZED ASSEMBLY, & TWO PART EPOXY COATED (SEE DETAIL THIS SHEET)
9	MK-FA4	28	5" LG. SLEEVE NUT (GALV.) & 1 1/4" x 12" MACHINE BOLT	GALVANIZED, SEE DETAIL THIS SHEET
10	MK-FA5	14	2-BOLT FERRULE GUARD RAIL INSERT 1 1/4" x 7UNC	GALVANIZED, SEE DETAIL THIS SHEET
11		24	8T x 10" SWIFT LIFT LIFTERS	Galvanized
12		48	4" x 11" CORRUGATED PLASTIC SLEEVE	
13				
14		48	#6 x 14'-6" (LEVEL II, DUAL COATED)	
15				
16		16	8T x 6 3/4" SWIFT LIFT LIFTER	GALVANIZED
17				
18		48	4" x 1'-3" CORRUGATED PLASTIC SLEEVE	
19				
20				
21				
22				
23		36	#5 x 31'-6" (LEVEL I, BLACK STEEL)	
24		16	#5 x 3'-4 1/2" (LEVEL II, DUAL COATED)	
25				
26		48	#6 x 2'-11" (LEVEL II, DUAL COATED)	
27				
28		1	BRIDGE PLAQUE	SUPPLIED BY OTHERS
29		32	6" x 5'-1 3/4" (MAX.) CORRUGATED STEEL SLEEVE	GALVANIZED, AASHTO M 36, TYPE I
30		8	2'-0" x 5'-1 1/2" CORRUGATED STEEL SLEEVE	GALVANIZED, AASHTO M 36, TYPE I
31		4	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
32				
33				
34				
35				

Vermont Agency of Transportation
RECEIVED
CK'D BY RK/JW OK'D BY RY
February 12, 2015
RESUBMIT No Approved AsNoted
BY RY DATE 02/12/2015

2-10-15 REVISED PER VT AOT COMMENTS

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GSE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	A.L. St. ONGE CONTRACTOR MONTMERY, VERMONT
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN	
	TOWN OF FAIRFIELD SOUTH ROAD, FAS 0281 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 14 PROJECT NO.: BRF 0281(25)	
MATERIALS LIST		DATE: NOV. 10, 2014 SCALE: NOTED CHKD: B.C. DFTM: B.L. JOB NO: 23446-014 DWG. NO: M1