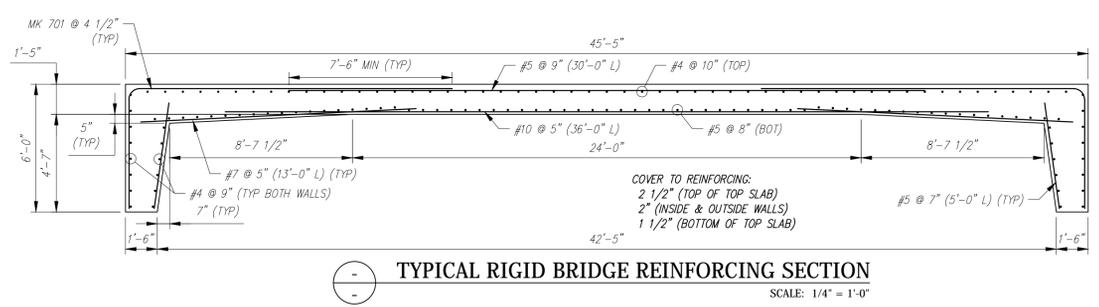


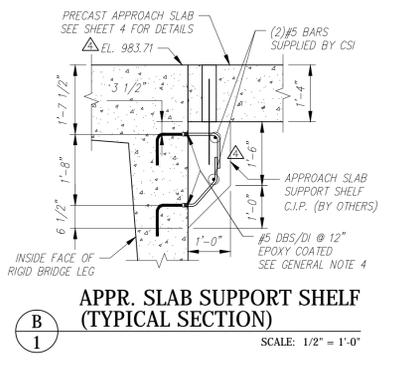
NOTE:  
APPROACH SLABS NOT SHOWN FOR CLARITY.  
FOR LAYOUT AND DETAILS, SEE SHEET 4.

- GENERAL NOTES:
- REFERENCE STANDARDS:  
AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS"  
ASTM C1577
  - DESIGN PARAMETERS:  
LIVE LOAD: HL-93  
EARTH COVER: 0'-2"  
CONCRETE: DESIGN STRENGTH  $f'_c = 5000$  PSI  
STRIPPING STRENGTH  $f'_c = 2500$  PSI  
UNIT WEIGHT = 150 PCF  
REINFORCING: FASCIA RIGID BRIDGE UNITS AND GUARDRAIL CURBS - XM-28 (STAINLESS), ASTM A955, UNS24100 (VTAOT LEVEL III), EXCEPT MECHANICAL SPLICERS SHALL BE LEVEL 1 EPOXY COATED.  
INTERIOR RIGID BRIDGE UNITS, WINGWALLS AND APPROACH SLABS - ASTM A615 (REBAR) GR 60, EPOXY COATED (VTAOT LEVEL I).  
FOOTINGS & PEDESTALS - ASTM A615 (REBAR) GR 60, PLAIN (VTAOT LEVEL I).  
SOIL: UNIT WEIGHT = 140 PCF  
MINIMUM LATERAL PRESSURE COEFFICIENT .25  
MAXIMUM LATERAL PRESSURE COEFFICIENT .50
  - COVER TO REINFORCING: SEE DETAILS
  - WATER REPELLANT COATING TO BE APPLIED BY CSI ON ALL EXPOSED PRECAST CONCRETE SURFACES EXCEPT FOR THE INTERIOR SURFACES OF RIGID BRIDGE.
  - DBS ARE DOWEL BAR SPLICERS AND DI ARE DOWEL IN BARS (BY DAYTON SUPERIOR) AND ARE SUPPLIED BY CSI. DI'S FOR C.I.P. CLOSURE POURS AND C.I.P. APPROACH SLAB SHALL BE INSTALLED IN FIELD BY OTHERS.
  - CONTRACTOR TO PROVIDE AND INSTALL 1/2" JOINT FILLER AT INTERFACE BETWEEN WINGWALLS AND RIGID FRAME LEGS.
  - PRECAST GUARDRAIL CURBS DESIGNED FOR TL-4 LOADING.
  - FOR CURING METHOD, SEE SECTION 5.5 IN THE CSI QUALITY CONTROL MANUAL.

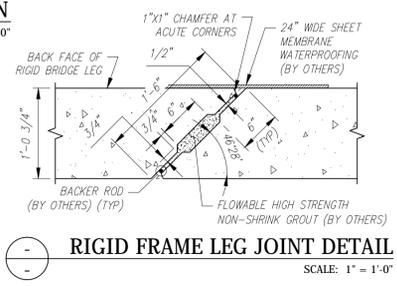
SEE SHOP DRAWINGS FOR DETAILS OR ADDITIONAL REINFORCING NOT SHOWN ON THIS SHEET.



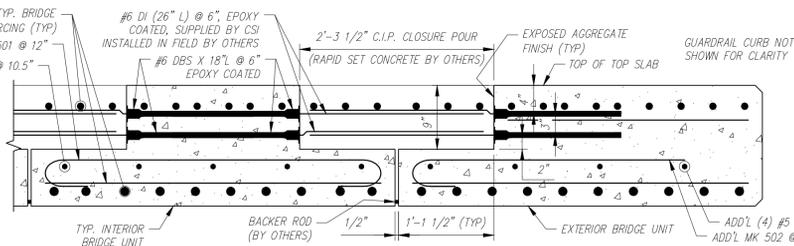
TYPICAL RIGID BRIDGE REINFORCING SECTION  
SCALE: 1/4" = 1'-0"



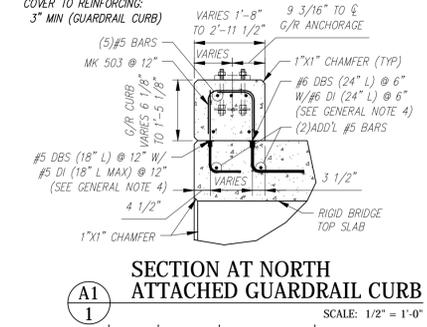
APPR. SLAB SUPPORT SHELF (TYPICAL SECTION)  
SCALE: 1/2" = 1'-0"



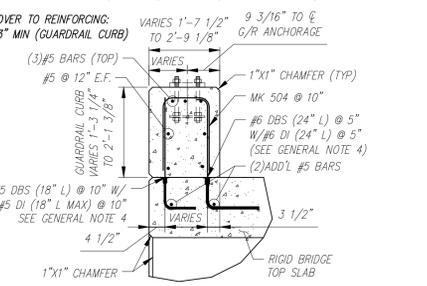
RIGID FRAME LEG JOINT DETAIL  
SCALE: 1" = 1'-0"



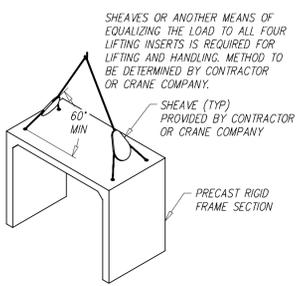
RIGID FRAME TOP SLAB JOINT DETAIL  
SCALE: 1" = 1'-0"



SECTION AT NORTH ATTACHED GUARDRAIL CURB  
SCALE: 1/2" = 1'-0"



SECTION AT SOUTH ATTACHED GUARDRAIL CURB  
SCALE: 1/2" = 1'-0"



LIFTING DETAILS  
SCALE: N.T.S.

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Rev.	Date	DESCRIPTION	By
10			
9			
8			
7			
6			
5			
4	04/22/2016	SEE REV4 TRIANGLES.	AK
3	04/13/2016	ADDED STRIPPING STRENGTH AND CURING METHOD NOTES.	AK
2	04/08/2016	SEE REV2 TRIANGLES.	AK
1	03/23/2016	SEE REV1 TRIANGLES.	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:

Engineer: STANTEC CONSULTING SERVICES, INC.  
Project No:  
Drawings: PROJECT PLANS

Specifications:  
DESCRIPTION

Other Sources:

Concrete Systems Inc.  
9 Commercial St., Hudson, NH 03051  
Phone 603-889-4163  
Fax 603-889-2417

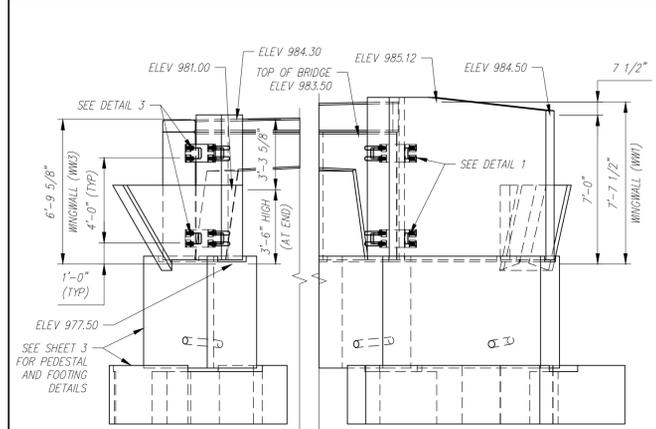
STATE AGENCY  
VTrans  
Drawn By: A. KOSTENKO  
Date: 02/03/2016  
Reviewed By:  
Date:  
Approved By:  
Date:

VTAOT PROJ. NO.: BRF 0151(21)

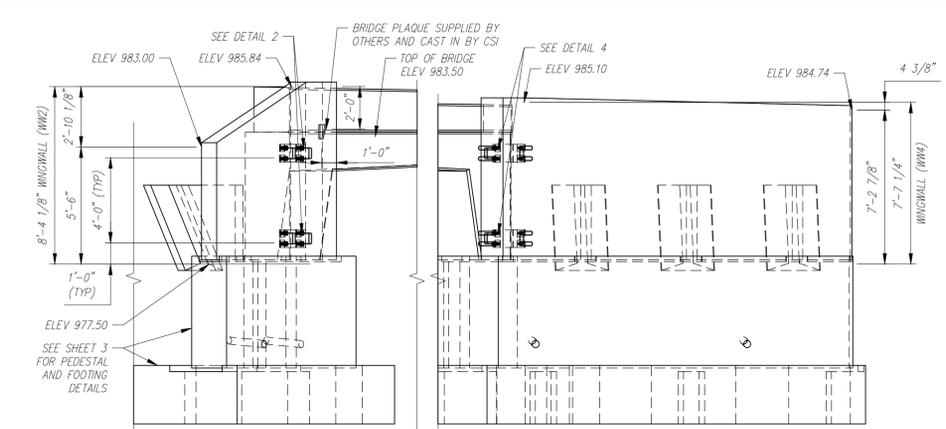
MILLER CONSTRUCTION, INC.  
ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
WOODSTOCK, VT

PRECAST RIGID BRIDGE LAYOUT & DETAILS  
Drawing No. R-S22624-L01A  
REV 4

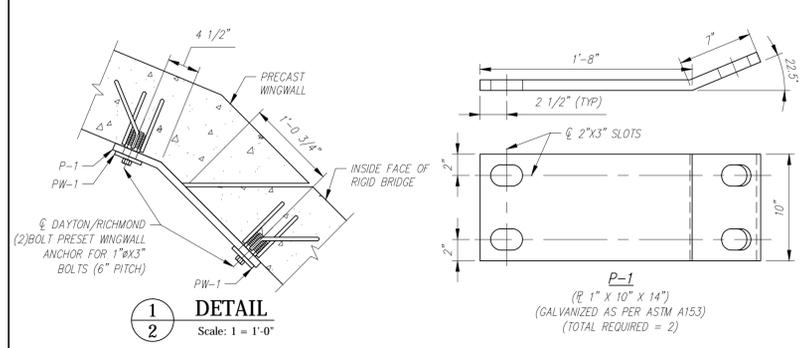
Quantity: Project No: SHEET 1 OF 4



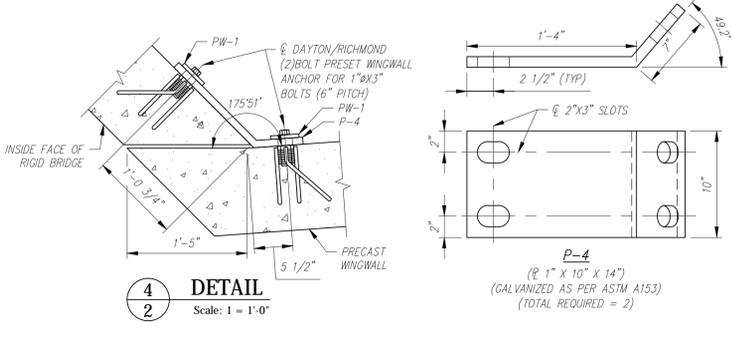
**C-C WEST END ELEVATION**  
SCALE: 1/4" = 1'-0"



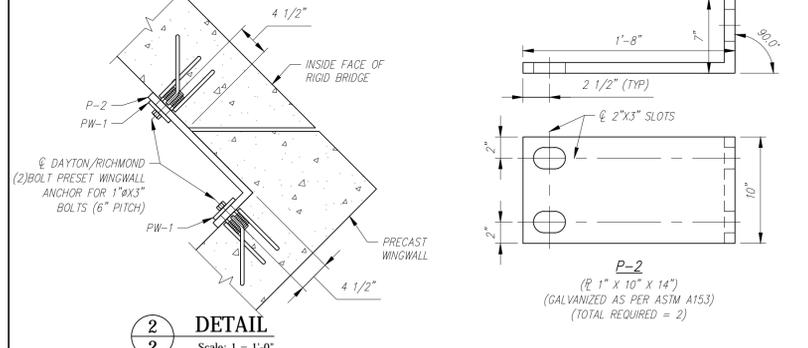
**D-D EAST END ELEVATION**  
SCALE: 1/4" = 1'-0"



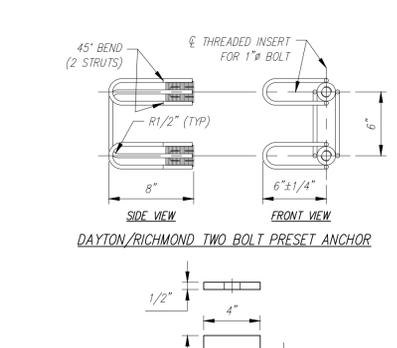
**1 DETAIL**  
Scale: 1 = 1'-0"



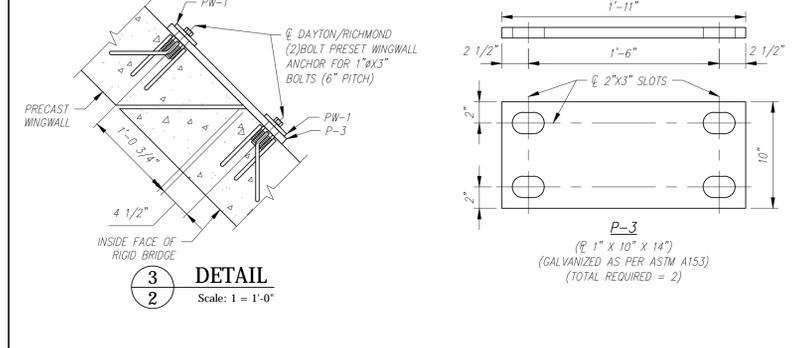
**2 DETAIL**  
Scale: 1 = 1'-0"



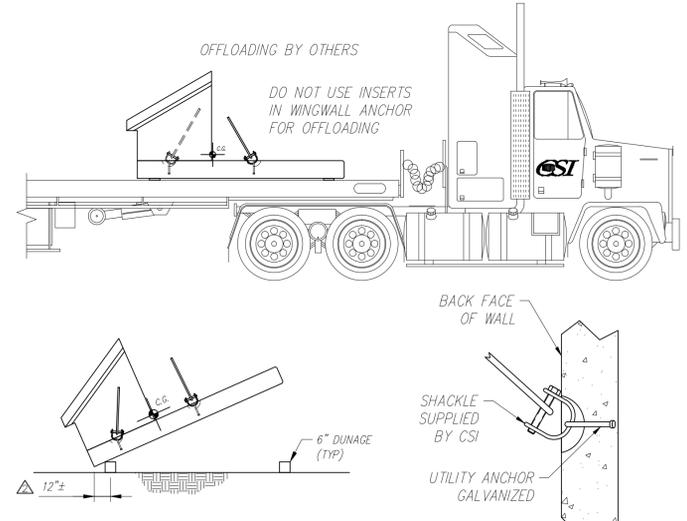
**3 DETAIL**  
Scale: 1 = 1'-0"



**4 DETAIL**  
Scale: 1 = 1'-0"

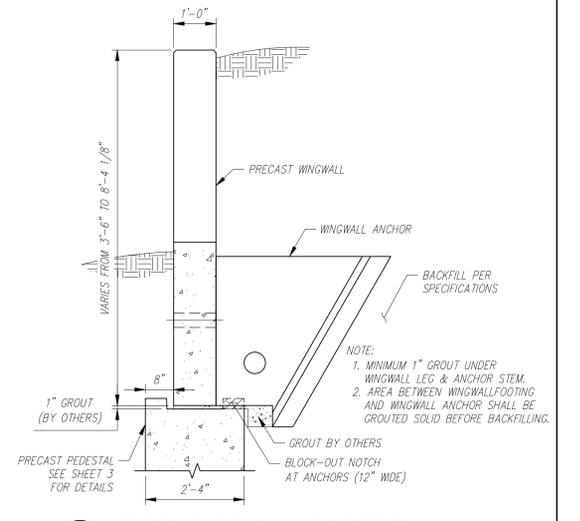


**5 DETAIL**  
Scale: 1 = 1'-0"



**WINGWALL LIFTING/OFFLOADING & TRIPPING DETAILS**  
Scale: N.T.S.

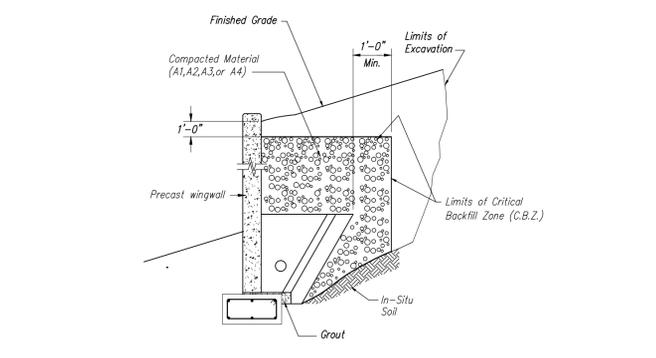
- WINGWALL GENERAL NOTES:**
- REFERENCE STANDARD: AASHTO LRFD SPECIFICATIONS
  - DESIGN PARAMETERS:
    - SOIL BEARING: 3000 PSF (TO BE VERIFIED BY ENGINEER)
    - CONCRETE: DESIGN STRENGTH  $f'_c = 4000$  PSI
    - STRIPPING STRENGTH  $f'_c = 2500$  PSI
    - UNIT WEIGHT = 150 PCF
    - REINFORCING: ASTM A615 (REBAR), GRADE 60, EPOXY COATED (VTAOT LEVEL 1)
    - SOIL: UNIT WEIGHT = 140 PCF
    - MINIMUM LATERAL PRESSURE COEFFICIENT .25
    - MAXIMUM LATERAL PRESSURE COEFFICIENT .50
    - COVER TO REINFORCING: 2" U.N.O.
  - WINGWALLS HAVE BEEN DESIGNED FOR GENERAL SITE CONDITIONS. THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR THE STRUCTURE'S SUITABILITY TO THE EXISTING SITE CONDITIONS AND FOR THE HYDRAULIC EVALUATION, INCLUDING SCOUR AND CONFIRMATION OF SOIL CONDITIONS.
  - PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.
  - FOR CURING METHOD, SEE SECTION 5.5 IN THE CSI QUALITY CONTROL MANUAL.



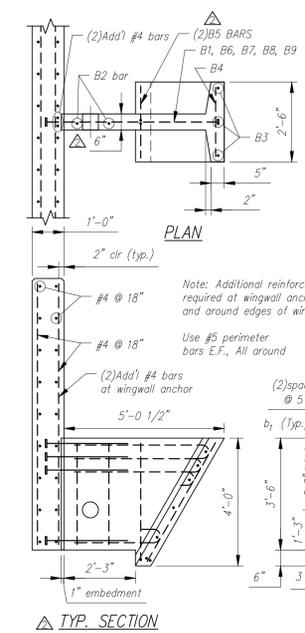
**TYPICAL WINGWALL SECTION**  
SCALE: 1/2" = 1'-0"

Group Classification	BACKFILL DESCRIPTION						
	A-1	A-3	A-2		A-2-6		A-2-7
Sieve Analysis, Percent Passing							
No. 10	50 max.	51 min.					
No. 40	30 max.	50 max.	35 max.	35 max.	35 max.	35 max.	
No. 200	15 max.	25 max.	10 max.	10 max.	10 max.	10 max.	
Characteristics of Fraction Passing							
No. 40			40 max.	41 min.	40 max.	41 min.	
Liquid Limit			10 max.	10 max.	11 min.	11 min.	
Plasticity Index							
Usual Types of Significant Constituent Materials	6 max. Stone Fragments, Gravel & Sand	N.P.					
General Rating as Subgrade			Excellent to Good				

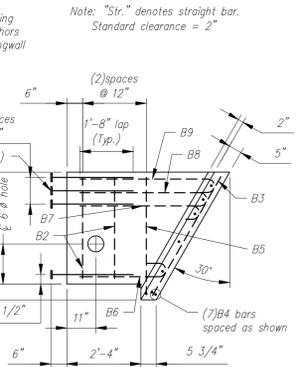
- NOTES**
- BACKFILLING OPERATIONS WITHIN THE C.B.Z. SHALL BE PERFORMED IN LIFTS OF 8" OR LESS (LOOSE DEPTH).
  - MAXIMUM DRY DENSITY SHALL BE DETERMINED BY AASHTO T-99 OR OTHER APPROVED METHODS.
  - BACKFILL SHALL BE COMPACTED IN LAYERS UNTIL THE DENSITY IS NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY.



**WINGWALL BACKFILL REQUIREMENTS**



BAR LIST				
MARK	QTY.	SIZE	a	TYPE
B1	4	#6	2'-7"	3
B2	2	#5		Str.
B3	4	#5		Str.
B4	7	#5		Str.
B5	2	#5	3'-8"	2
B6	1	#5	2'-9"	1
B7	1	#5	3'-9"	1
B8	1	#5	4'-0"	1
B9	1	#5	4'-3"	1



**PRECAST ANCHOR TYPE C**

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Rev.	Date	DESCRIPTION	By
10			
9			
8			
7			
6			
5			
4			
3	04/13/2016	ADDED STRIPPING STRENGTH AND CURING METHOD NOTES.	AK
2	04/08/2016	SEE REV2 TRIANGLES.	AK
1	03/23/2016	SEE REV1 TRIANGLES.	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

STRUCTURAL DESIGN OF RIGID BRIDGE, GUARDRAIL CURBS AND WINGWALLS ONLY

This drawing is based upon information provided from the following documents and/or sources:

Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
**VTrans**  
Reviewed By: A. KOSTENKO  
Date: 02/03/2016

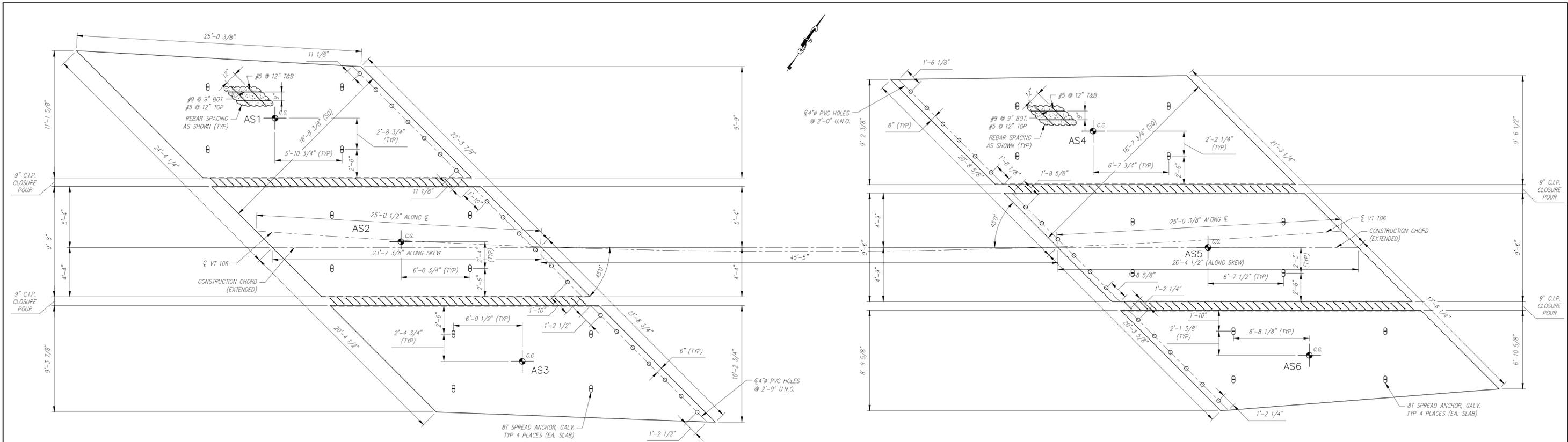
VTAOT PROJ. NO.: BRF 0151(21)  
MILLER CONSTRUCTION, INC.  
ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
WOODSTOCK, VT

**ELEVATIONS AND WINGWALL DETAILS**

Drawing No. R-S22624-L01B  
REV 3

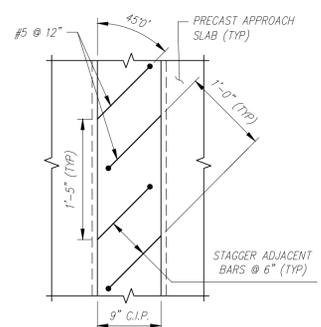
Quantity: Project No: SHEET 2 OF 4



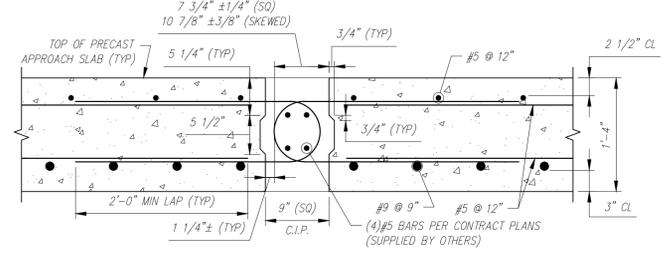


**APPROACH SLAB PLAN**  
SCALE: 1/4" = 1'-0"

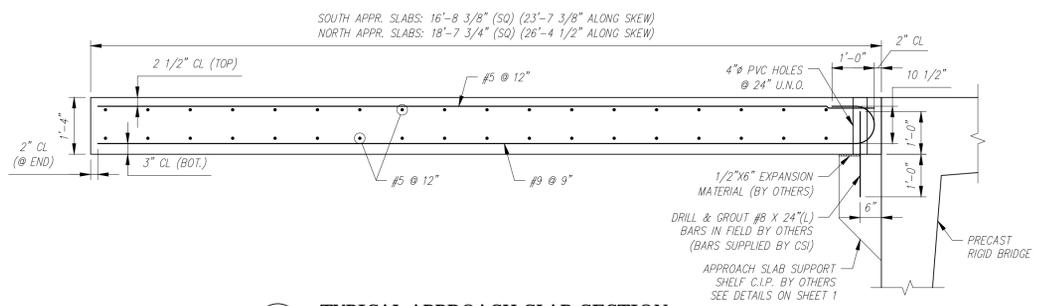
▲ SEE SHOP DRAWINGS FOR ADDITIONAL DETAILS.



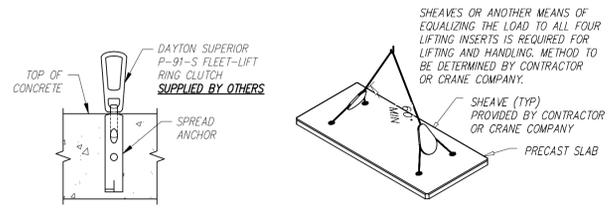
**TYPICAL C.I.P. CLOSURE POUR PLAN**  
SCALE: 1" = 1'-0"



**TYPICAL C.I.P. CLOSURE POUR SECTION**  
SCALE: 1" = 1'-0"



**TYPICAL APPROACH SLAB SECTION**  
SCALE: 1/2" = 1'-0"



**APPROACH SLAB LIFTING DETAILS**  
SCALE: N.T.S.

APPROACH SLAB PIECE SCHEDULE (MX-FA5000SC30)				
MARK	QTY	LENGTH	YDS	WEIGHT
AS1	1	23.61'	12.18	24.67 TONS
AS2	1	23.61'	11.27	22.83 TONS
AS3	1	23.61'	11.40	23.09 TONS
AS4	1	26.38'	12.20	24.71 TONS
AS5	1	26.38'	12.37	25.06 TONS
AS6	1	26.38'	10.22	20.70 TONS

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10				
9				
8				
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6				
5				
4				
3				
2				
1	04/08/2016	SEE REV 1 TRIANGLES.	AK	
Rev.	Date	DESCRIPTION	By	
		REVISIONS		

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

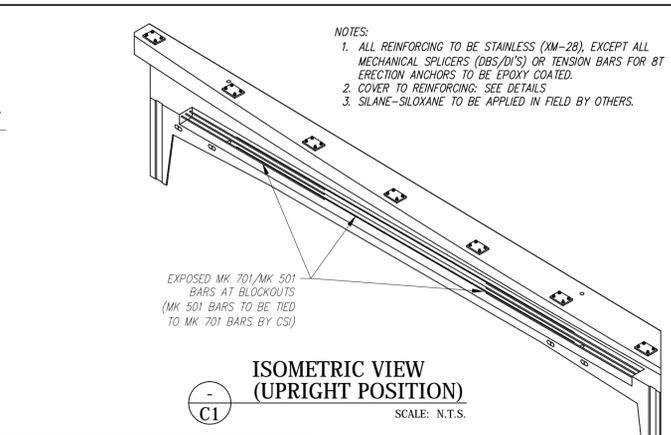
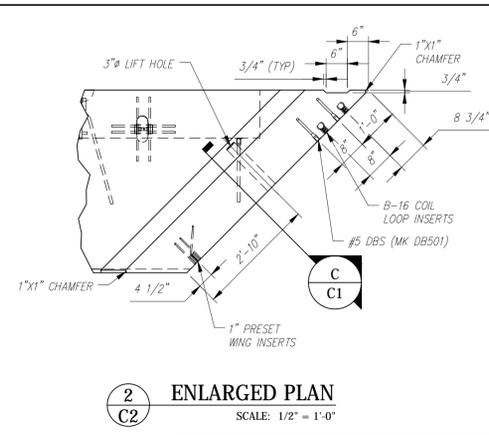
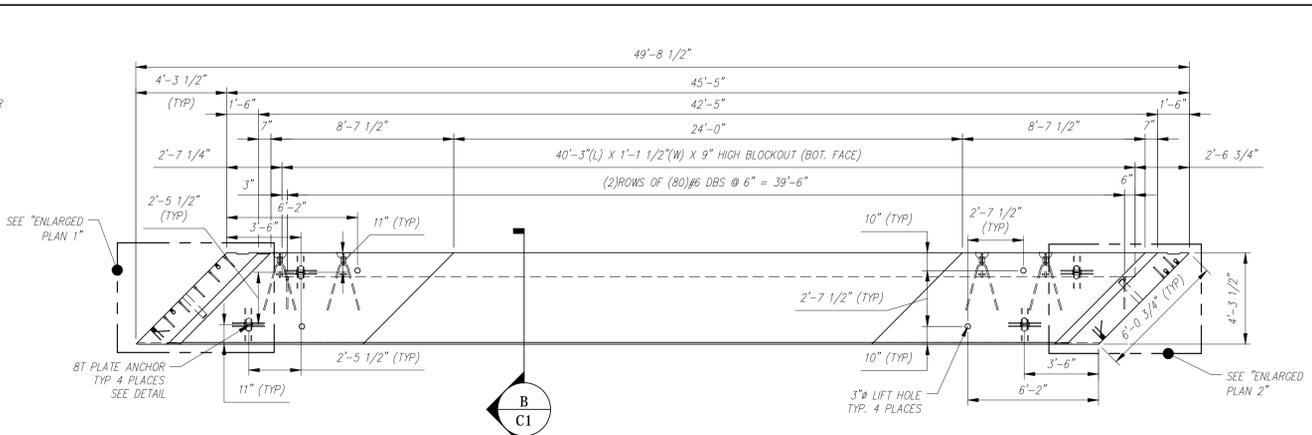
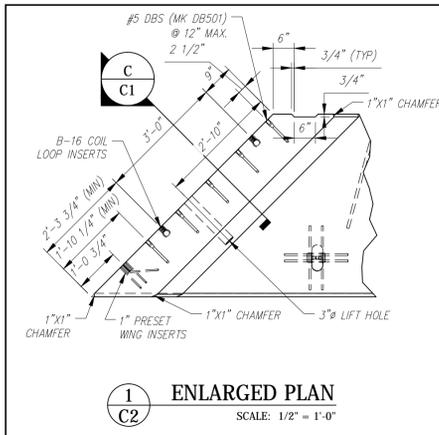
**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
**VTrans**  
Vermont  
Working Together for the Future

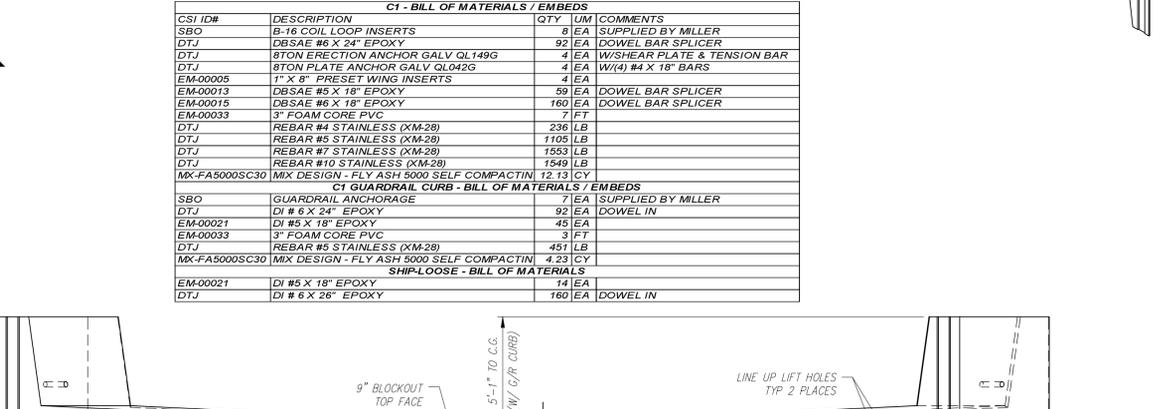
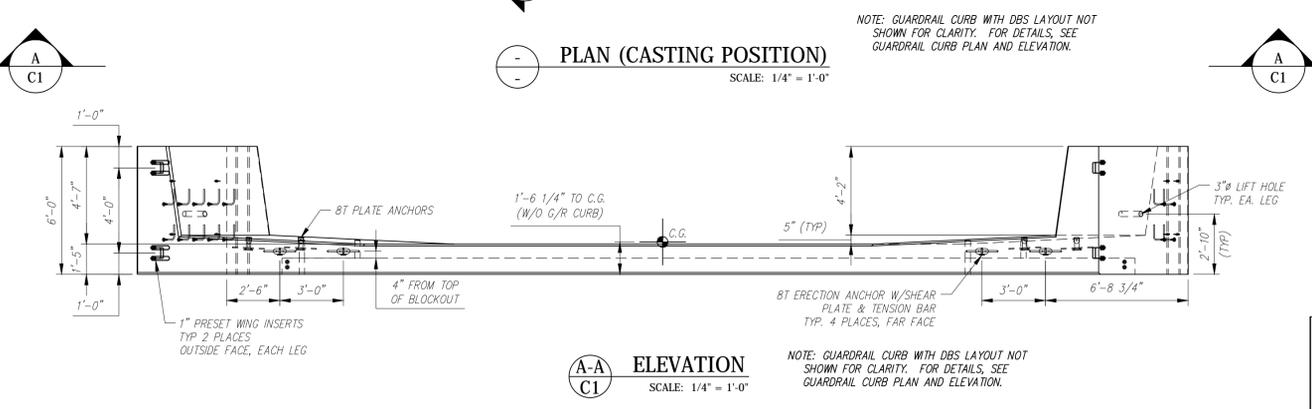
Drawn By: A. KOSTENKO  
Reviewed By:  
Approved By:  
Date: 03/03/2016

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

**APPROACH SLAB PLAN AND DETAILS**  
 Drawing No. R-S22624-L01D  
 Quantity: Project No: SHEET 4 OF 4



- NOTES:
- ALL REINFORCING TO BE STAINLESS (XM-28), EXCEPT ALL MECHANICAL SPlicERS (DBS/DI'S) OR TENSION BARS FOR BT ERECTION ANCHORS TO BE EPOXY COATED.
  - COVER TO REINFORCING: SEE DETAILS
  - SILANE-SILOXANE TO BE APPLIED IN FIELD BY OTHERS.

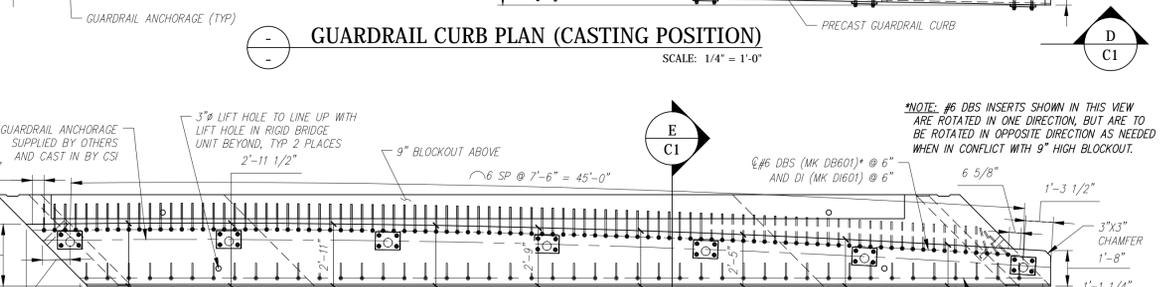
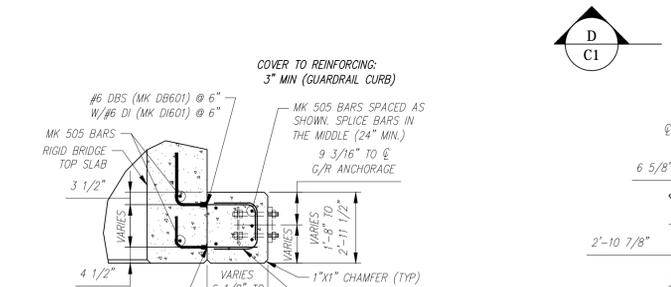
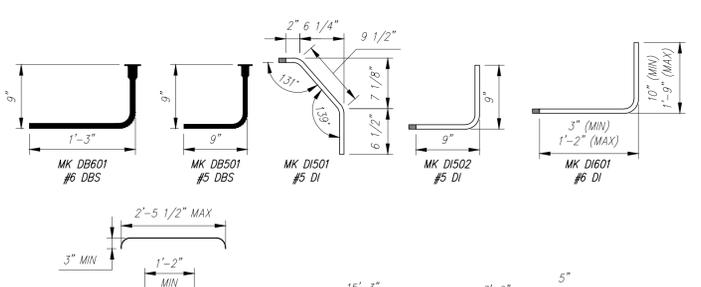


C1 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
SBO	B-16 COIL LOOP INSERTS	8	EA	SUPPLIED BY MILLER
DTJ	DBSAE #6 X 24" EPOXY	92	EA	DOWEL BAR SPLICER
DTJ	8TON ERECTION ANCHOR GALV QL149G	4	EA	W/SHEAR PLATE & TENSION BAR
DTJ	8TON PLATE ANCHOR GALV QL042G	4	EA	W/(4) #4 X 18" BARS
EM-00005	1" X 8" PRESET WING INSERTS	4	EA	
EM-00013	DBSAE #5 X 18" EPOXY	59	EA	DOWEL BAR SPLICER
EM-00015	DBSAE #6 X 18" EPOXY	160	EA	DOWEL BAR SPLICER
EM-00033	3" FOAM CORE PVC	7	FT	
DTJ	REBAR #4 STAINLESS (XM-28)	236	LB	
DTJ	REBAR #5 STAINLESS (XM-28)	1105	LB	
DTJ	REBAR #7 STAINLESS (XM-28)	1553	LB	
DTJ	REBAR #10 STAINLESS (XM-28)	1549	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	12.13	CY	
EMBEDS				
SBO	GUARDRAIL ANCHORAGE	7	EA	SUPPLIED BY MILLER
DTJ	DI # 6 X 24" EPOXY	92	EA	DOWEL IN
EM-00021	DI #5 X 18" EPOXY	45	EA	
EM-00033	3" FOAM CORE PVC	3	FT	
DTJ	REBAR #5 STAINLESS (XM-28)	451	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	4.23	CY	
SHIP-LOOSE - BILL OF MATERIALS				
EM-00021	DI #5 X 18" EPOXY	14	EA	
DTJ	DI # 6 X 26" EPOXY	160	EA	DOWEL IN

ALL REBAR TO BE STAINLESS

C1 Rebar Schedule

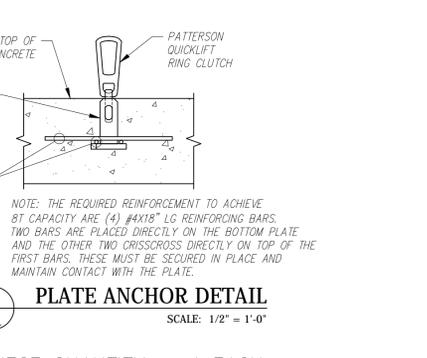
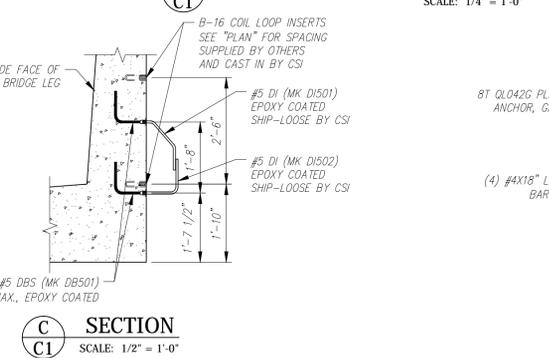
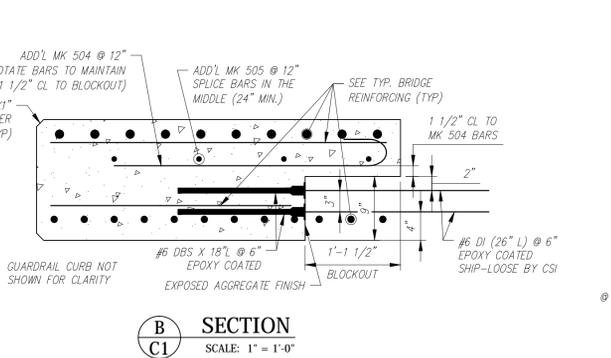
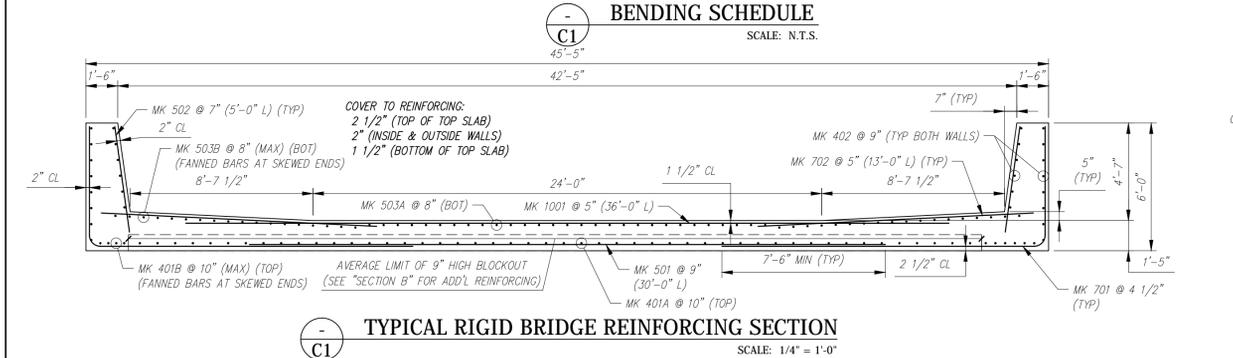
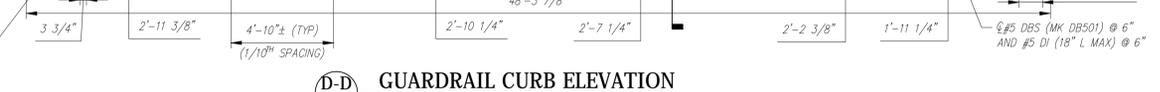
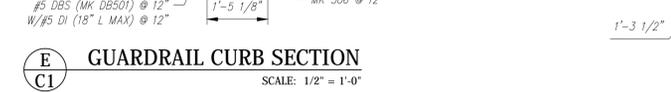
MK	QTY	LENGTH
401A #4	48	2'-10"
401B #4	10	5'-8.5"
402 #4	28	5'-8.5"
501 #5	6	30'-0"
502 #5	22	5'-0"
503A #5	58	3'-11.5"
503B #5	16	5'-8.5"
504 #5	41	3'-11"
505 #5	12	24'-0"
701 #7	24	20'-10"
702 #7	20	13'-0"
1001 #10	10	36'-0"



ALL REBAR TO BE STAINLESS

C1 G/R Curb Rebar Schedule

MK	QTY	LENGTH
505 #5	10	24'-0"
506 #5	48	4'-0"



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Rev.	Date	DESCRIPTION	By
10			
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This drawing is based upon information provided from the following documents and/or sources:

Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS

Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans

Drawn By: A. KOSTENKO  
 Date: 04/22/2016  
 Reviewed By:  
 Date:  
 Approved By:  
 Date:

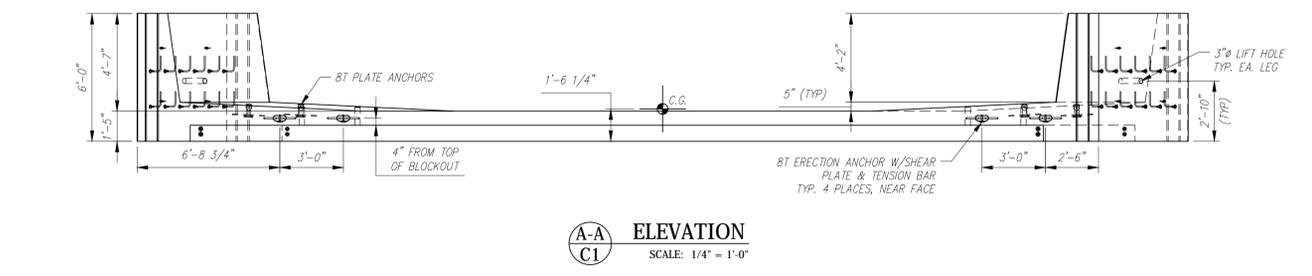
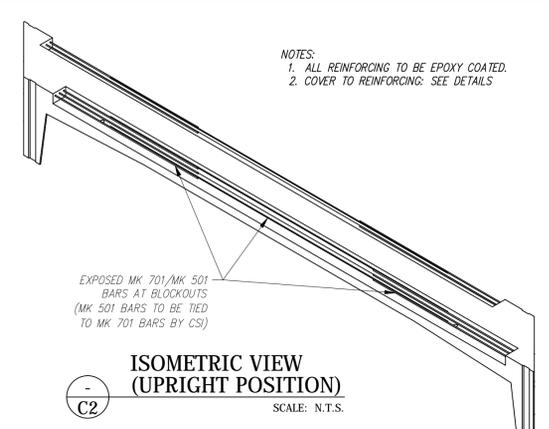
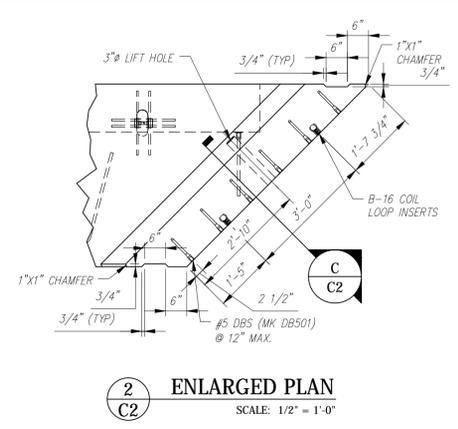
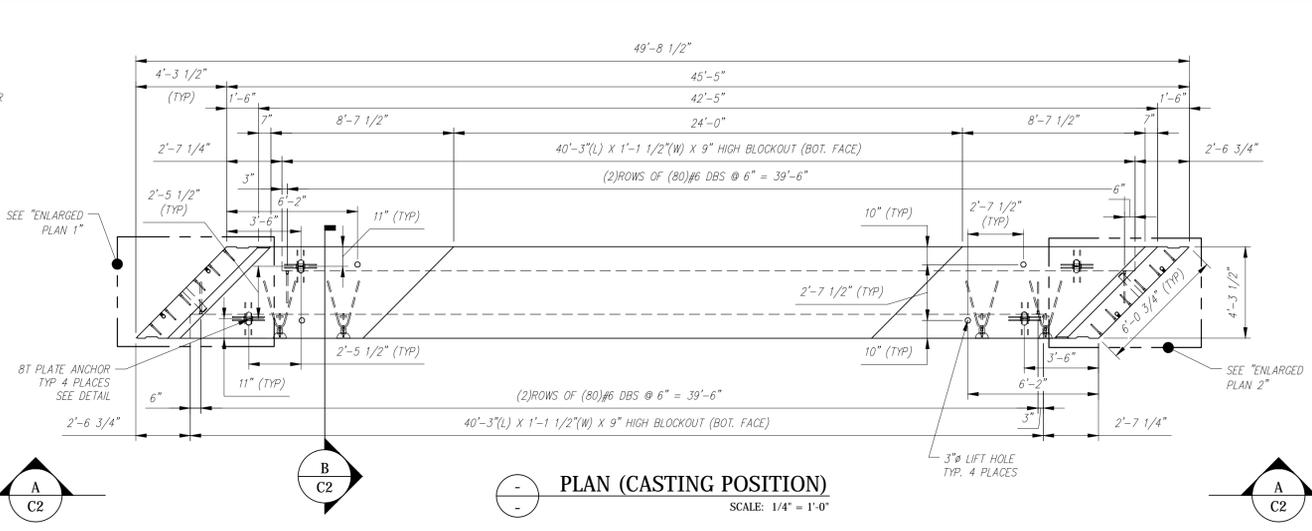
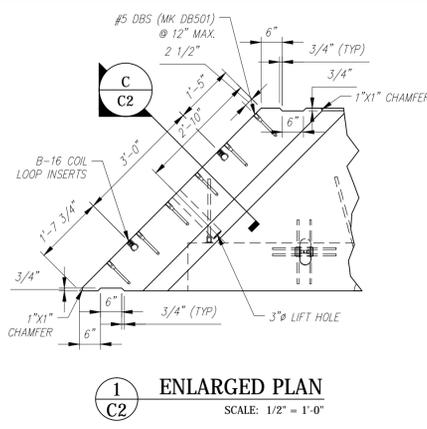
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 WEIGHT: 33.13 TONS

VTAOT PROJ. NO.: BRF 0151(21)

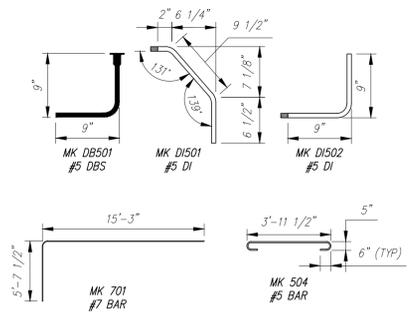
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

RIGID BRIDGE SHOP DRAWING - C1  
 R-S22624-C1

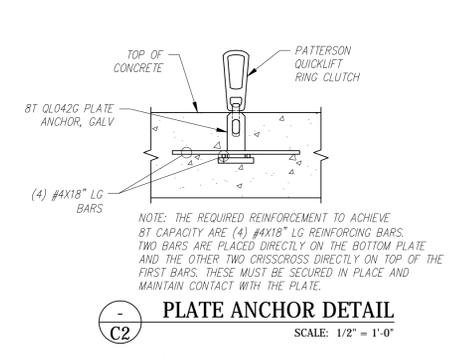
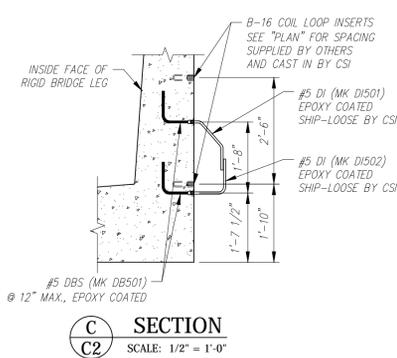
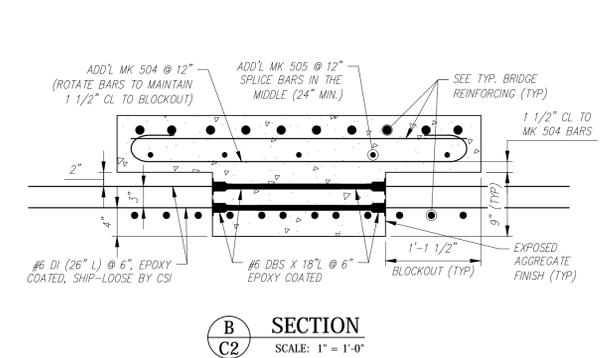
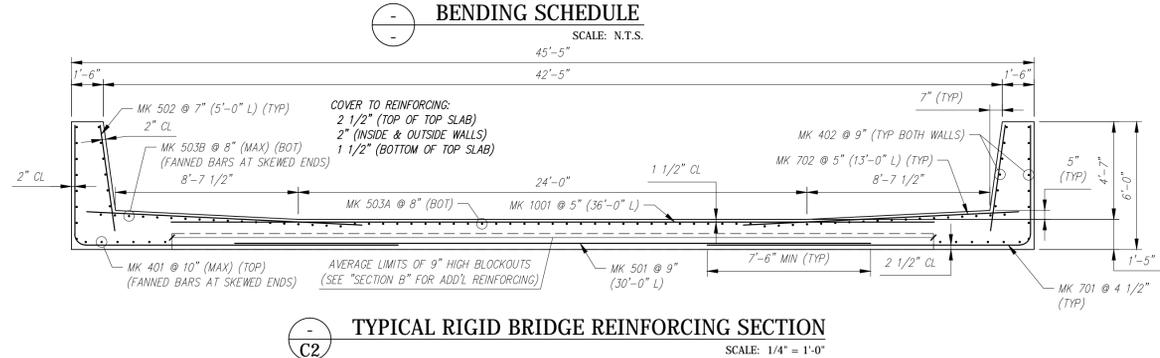
Quantity: Project No: SHEET C1 OF



C2 - BILL OF MATERIALS / EMBEDS			
CSI ID#	DESCRIPTION	QTY	UM
SBO	B-16 COIL LOOP INSERTS	8	EA
DTJ	8TON ERECTION ANCHOR GALV QL149G	4	EA
DTJ	8TON PLATE ANCHOR GALV QL042G	4	EA
EM-00013	DBSAE #5 X 18" EPOXY	24	EA
EM-00015	DBSAE #6 X 18" EPOXY	320	EA
EM-00033	3" FOAM CORE PVC	7	FT
RM-00014	REBAR #4 EPOXY-GR 60 40'	153	LB
RM-00016	REBAR #5 EPOXY-GR 60 40'	1159	LB
RM-00010	REBAR #7 EPOXY-GR 60 40'	1553	LB
RM-00093	REBAR #10 EPOXY-GR 60	1549	LB
MX-FAS000SC30	MX DESIGN - FLY ASH 5000 SELF COMPACTING	10.88	CY
SHIP-LOOSE - BILL OF MATERIALS			
EM-00021	DI #5 X 18" EPOXY	24	EA
DTJ	DI #6 X 26" EPOXY	320	EA



ALL REBAR TO BE EPOXY COATED			
C2 Rebar Schedule			
MK	QTY	LENGTH	MAX
401	#4	12 5' 8.5"	MAX
402	#4	28 5' 8.5"	MAX
501	#5	6 30' 0"	
502	#5	22 5' 0"	
503A	#5	58 3' 11.5"	
503B	#5	16 5' 8.5"	MAX
504	#5	45 5' 9.5"	
505	#5	10 24' 0"	
701	#7	24 20' 10"	
702	#7	20 13' 0"	
1001	#10	10 36' 0"	



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This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

**CSI**  
 Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Date: 04/22/2016  
 Reviewed By:  
 Date:  
 Approved By:  
 Date:

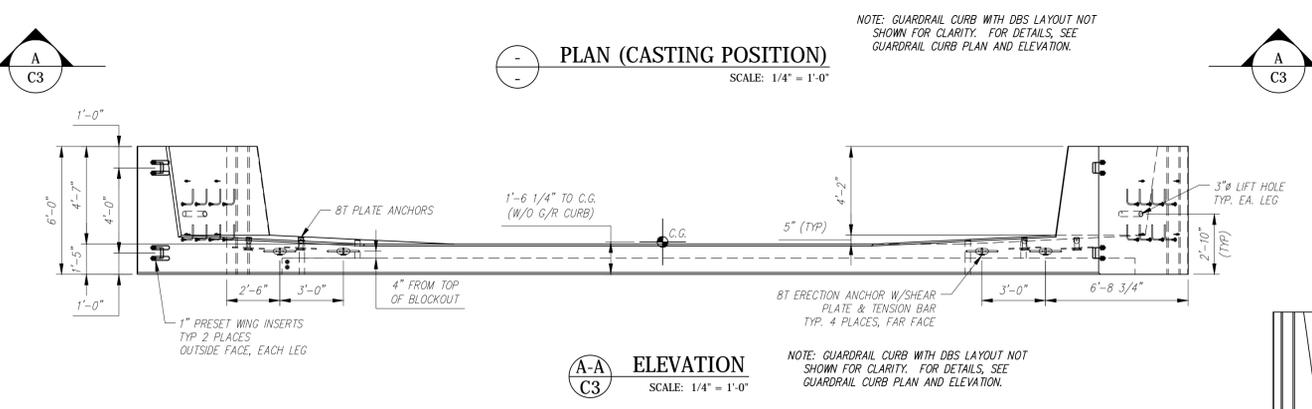
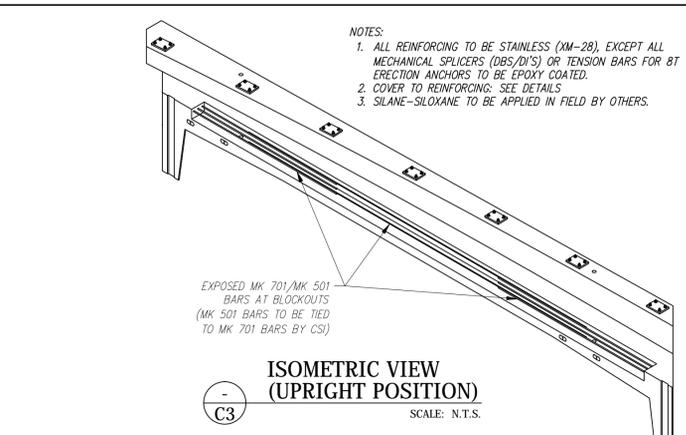
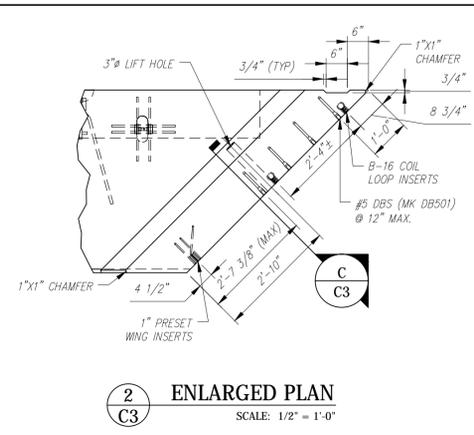
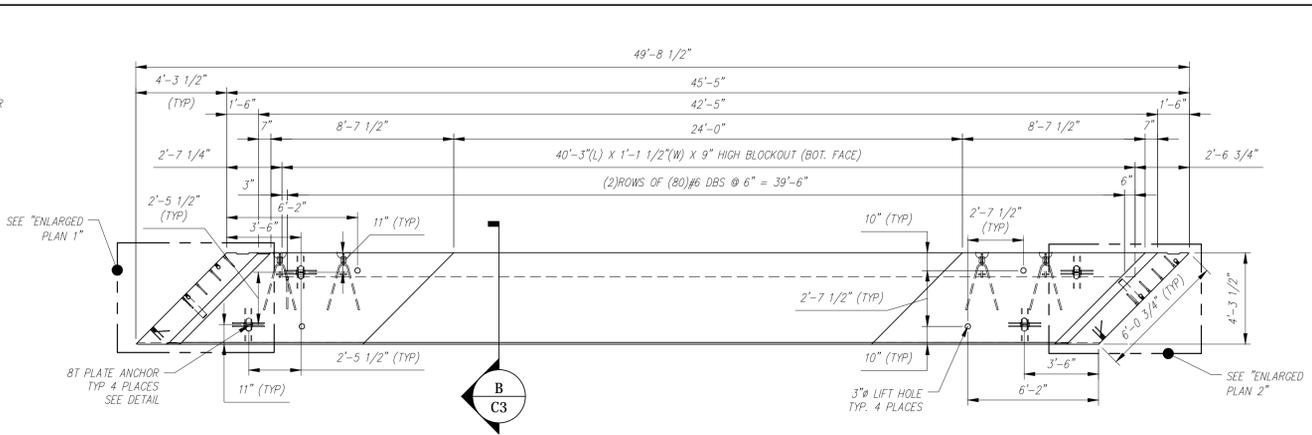
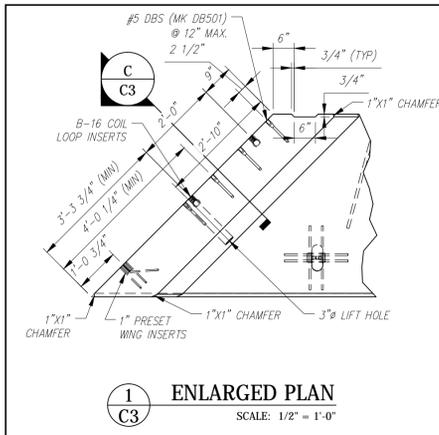
PIECE QUANTITY: 6 EACH  
 WEIGHT: 22.02 TONS

VTAOT PROJ. NO.: BRF 0151(21)

MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

RIGID BRIDGE SHOP DRAWING - C2  
 Drawing No. R-S22624-C2  
 REV 0

Quantity: Project No: SHEET C2 OF

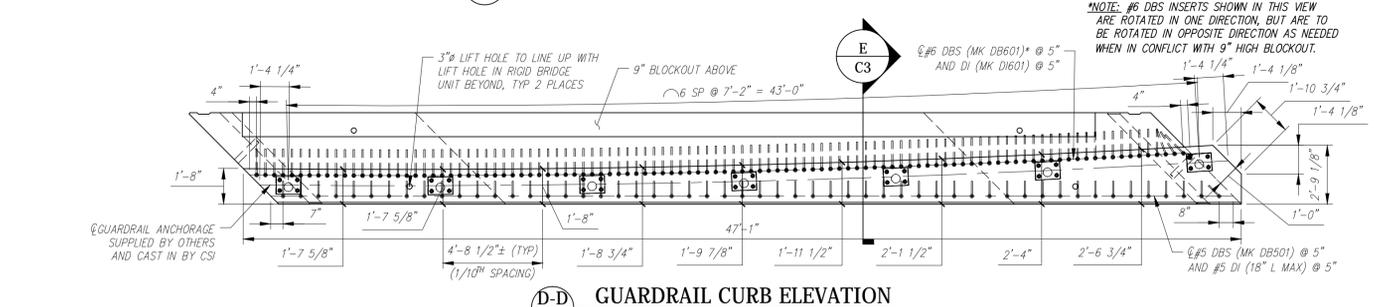
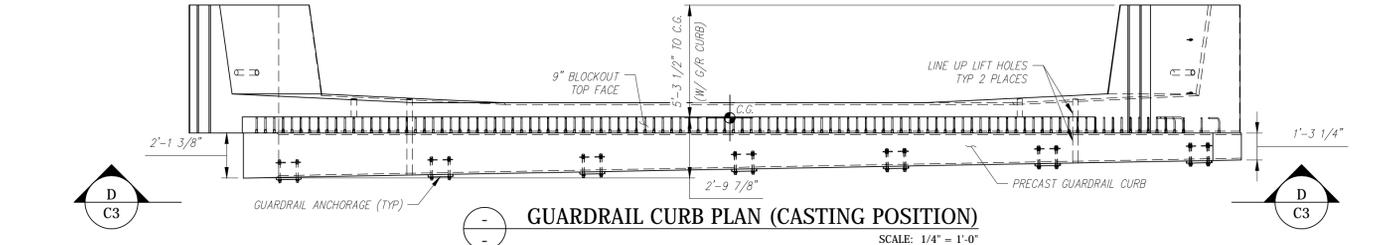
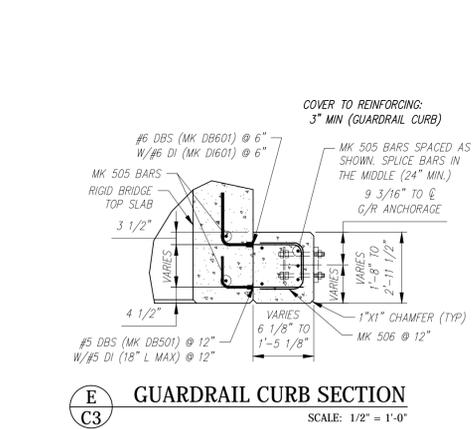
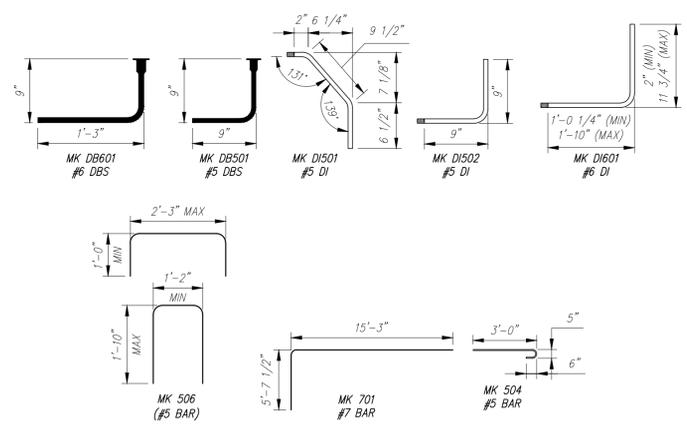


**C3 - BILL OF MATERIALS / EMBEDS**

CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
SBO	B-16 COIL LOOP INSERTS	8	EA	SUPPLIED BY MILLER
DTJ	DBSAE #8 X 24" EPOXY	106	EA	DOWEL BAR SPLICER
DTJ	8TON ERECTION ANCHOR GALV QL149G	4	EA	W/SHEAR PLATE & TENSION BAR
DTJ	8TON PLATE ANCHOR GALV QL42G	4	EA	W/(4) #4 X 18" BARS
EM00005	1" X 8" PRESET WING INSERTS	4	EA	
EM00013	DBSAE #5 X 18" EPOXY	70	EA	DOWEL BAR SPLICER
EM00015	DBSAE #6 X 18" EPOXY	160	EA	DOWEL BAR SPLICER
EM00033	3" FOAM CORE PVC	7	FT	
DTJ	REBAR #4 STAINLESS (XM-28)	236	LB	
DTJ	REBAR #5 STAINLESS (XM-28)	1105	LB	
DTJ	REBAR #7 STAINLESS (XM-28)	1553	LB	
DTJ	REBAR #10 STAINLESS (XM-28)	1549	LB	
MK-FAS000SC30	MK DESIGN - FLY ASH 5000 SELF COMPACTING	12.13	CY	
<b>C3 GUARDRAIL CURB - BILL OF MATERIALS / EMBEDS</b>				
SBO	GUARDRAIL ANCHORAGE	7	EA	SUPPLIED BY MILLER
DTJ	DI # 6 X 24" EPOXY	106	EA	DOWEL IN
EM00021	DI #5 X 18" EPOXY	54	EA	
EM00033	3" FOAM CORE PVC	4	FT	
DTJ	REBAR #5 STAINLESS (XM-28)	637	LB	
MK-FAS000SC30	MK DESIGN - FLY ASH 5000 SELF COMPACTING	5.50	CY	
<b>SHIP-LOOSE - BILL OF MATERIALS</b>				
EM00021	DI #5 X 18" EPOXY	16	EA	
DTJ	DI # 6 X 24" EPOXY	160	EA	DOWEL IN

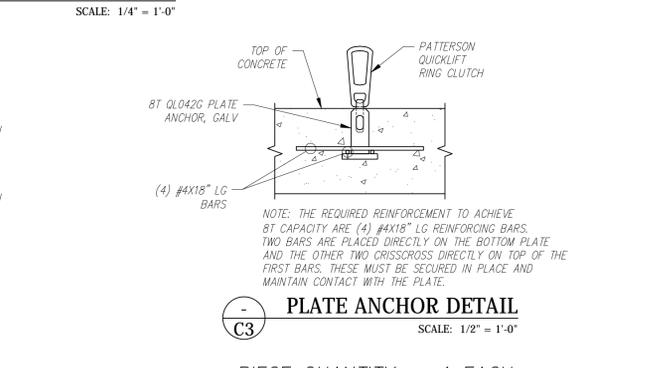
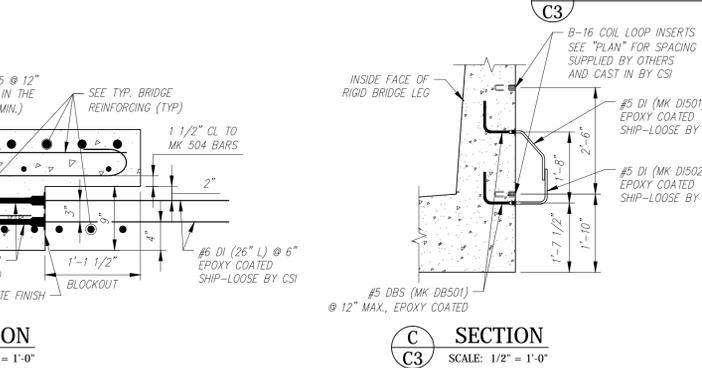
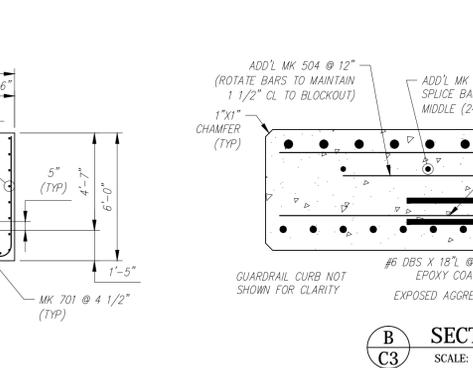
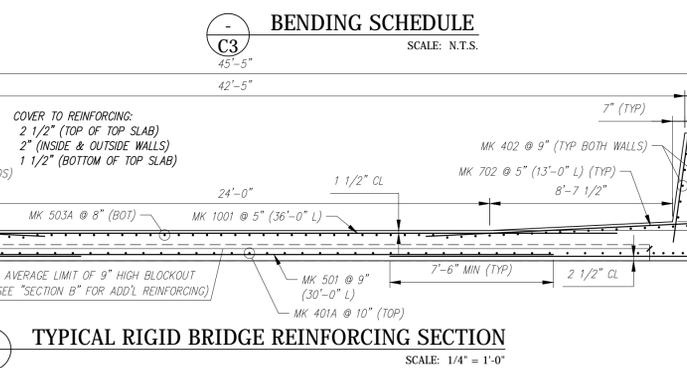
**ALL REBAR TO BE STAINLESS**  
C3 Rebar Schedule

MK	QTY	LENGTH
401A #4	48	2' - 10"
401B #4	10	5' - 8.5"
402 #4	28	5' - 8.5"
501 #5	6	30' - 0"
502 #5	22	5' - 0"
503A #5	58	3' - 11.5"
503B #5	16	5' - 8.5"
504 #5	41	3' - 11"
506 #5	12	24' - 0"
701 #7	24	20' - 10"
702 #7	20	13' - 0"
1001 #10	10	36' - 0"



**ALL REBAR TO BE STAINLESS**  
C3 G/R Curb Rebar Schedule

MK	QTY	LENGTH
505 #5	14	24' - 0"
506 #5	55	5' - 0"



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Rev.	Date	DESCRIPTION	By
10			
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This drawing is based upon information provided from the following documents and/or sources:

Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS

Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans

Drawn By: A. KOSTENKO  
 Date: 04/22/2016  
 Reviewed By: [Signature]  
 Date: [Date]

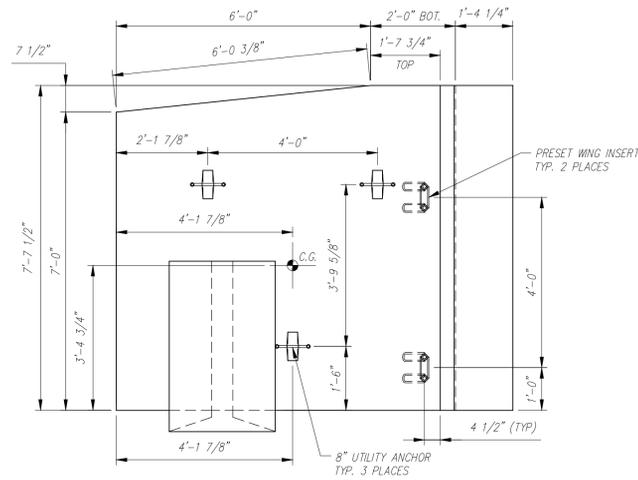
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 WEIGHT: 35.71 TONS

VTAOT PROJ. NO.: BRF 0151(21)

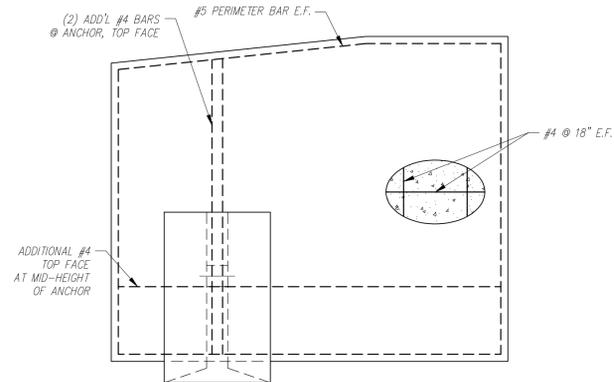
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

D	RIGID BRIDGE SHOP DRAWING - C3	REV 0
	Drawing No. R-S22624-C3	
Quantity:	Project No:	SHEET C3 OF

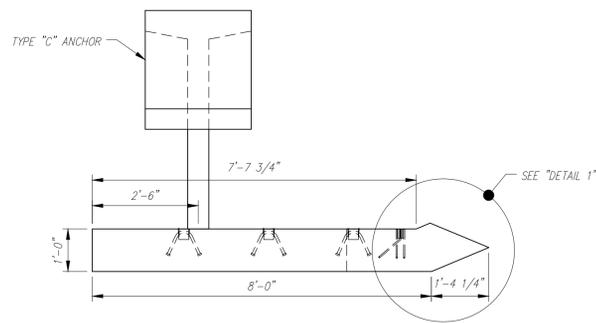
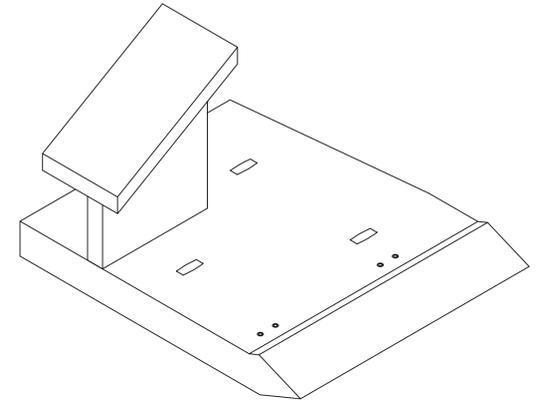
- NOTES:
1. ALL REINFORCING TO BE EPOXY COATED.
  2. ALL EXPOSED EDGES TO BE 1" CHAMFERED.
  3. COVER TO REINFORCING: 2" U.N.O.
  4. WATER REPELLANT COATING TO BE APPLIED ON FRONT, TOP AND 1.5' DOWN BACK FACE.



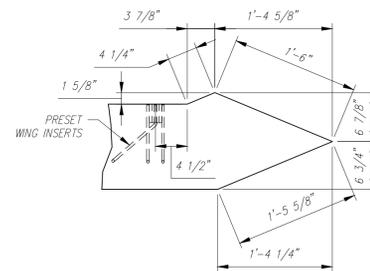
PLAN (CASTING POSITION)  
SCALE: 1/2" = 1'-0"



REINFORCING PLAN  
SCALE: 1/2" = 1'-0"



ELEVATION  
SCALE: 1/2" = 1'-0"



DETAIL  
SCALE: 1" = 1'-0"

WW1 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
SBO	BRIDGE PLAQUE	1	EA	
DTJ	CERTI-VEX PENSEAL 244 WATER REPELLANT	0.5	GA	
CSANC-C	CONSPAN WINGWALL ANCHOR "C"	1	EA	
EM-0005	1" X 8" PRESET WING INSERTS	2	EA	
EM-0015	UTILITY ANCHOR #8UA671-GALVANIZED	3	EA	
RM-0014	REBAR #4 EPOXY- GR 60 40'	134	LB	
RM-0016	REBAR #5 EPOXY- GR 60 40'	67	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	2.41	CY	

PIECE QUANTITY: 1 EACH  
WEIGHT: 5.78 TONS

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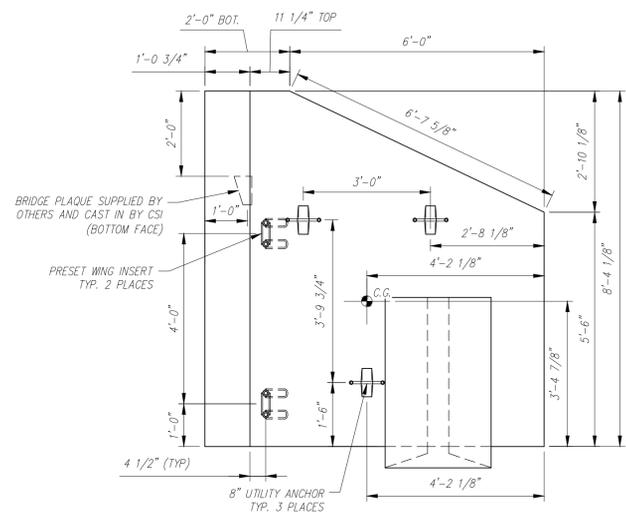
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Rev.	Date	DESCRIPTION	By	
		REVISIONS		

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

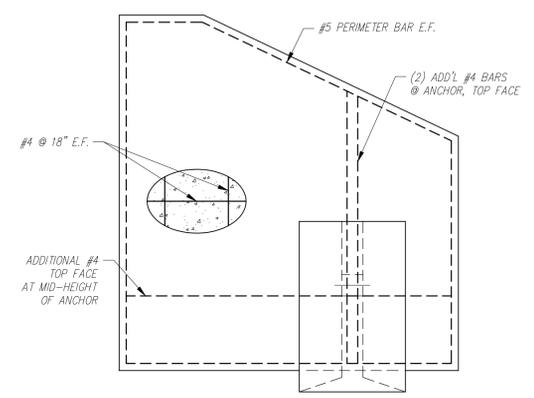
**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING - WW1  
 Drawing No. R-S22624-WW1  
 Quantity: 1 Project No:  
 SHEET WW1 OF

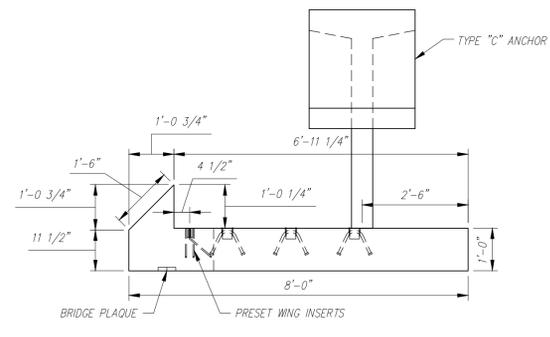
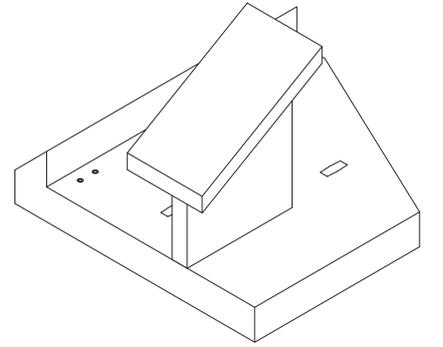


PLAN (CASTING POSITION)  
SCALE: 1/2" = 1'-0"



REINFORCING PLAN  
SCALE: 1/2" = 1'-0"

- NOTES:
1. ALL REINFORCING TO BE EPOXY COATED.
  2. ALL EXPOSED EDGES TO BE 1" CHAMFERED.
  3. COVER TO REINFORCING: 2" U.N.O.
  4. WATER REPELLANT COATING TO BE APPLIED ON FRONT, TOP AND 1.5' DOWN BACK FACE.



ELEVATION  
SCALE: 1/2" = 1'-0"

WW2 - BILL OF MATERIALS / EMBEDS			
CSI ID#	DESCRIPTION	QTY	UM COMMENTS
DTJ	CERTI-VEX PENSEAL 244 WATER REPELLANT	0.5	GA
CSANC-C	CONSPAN WINGWALL ANCHOR "C"	1	EA
EM-00005	1" X 8" PRESET WING INSERTS	2	EA
EM-00115	UTILITY ANCHOR #BUA671-GALVANIZED	3	EA
RM-00014	REBAR #4 EPOXY- GR 60 40'	134	LB
RM-00016	REBAR #5 EPOXY- GR 60 40'	67	LB
MX-FA5000SC30	MX DESIGN - FLY ASH 5000 SELF COMPACTIN	2.32	CY

PIECE QUANTITY: 1 EACH  
WEIGHT: 5.59 TONS

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Project No:  
Drawings: PROJECT PLANS

Specifications:  
Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
**VTrans**  
Vermont  
Working To Get You There  
Safer, Smoother, and Stronger

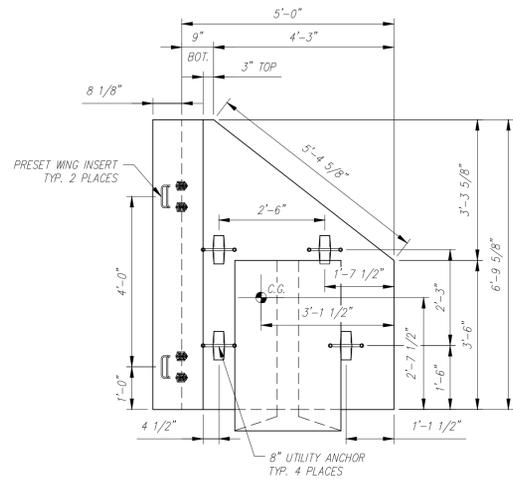
Drawn By: A. KOSTENKO  
Reviewed By:  
Approved By:  
Date: 04/04/2016

VTAOT PROJ. NO.: BRF 0151(21)

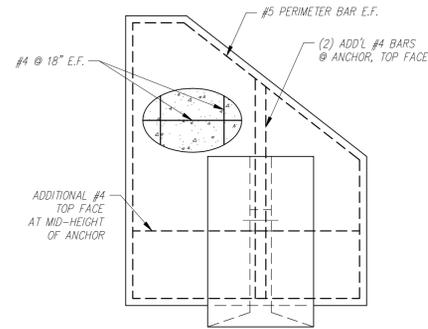
MILLER CONSTRUCTION, INC.  
ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
WOODSTOCK, VT

SHOP DRAWING -- WW2  
Drawing No. R-S22624-WW2

Quantity: 1 Project No: SHEET WW2 OF

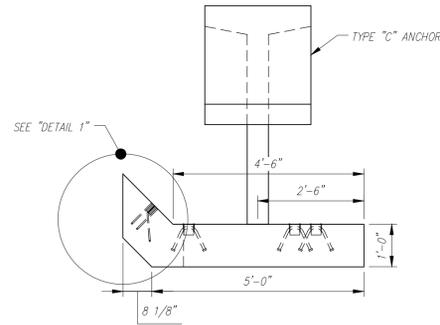
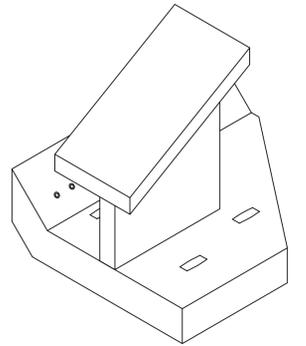


**PLAN (CASTING POSITION)**  
SCALE: 1/2" = 1'-0"

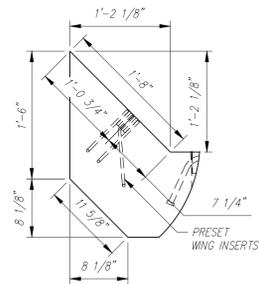


**REINFORCING PLAN**  
SCALE: 1/2" = 1'-0"

- NOTES:
1. ALL REINFORCING TO BE EPOXY COATED.
  2. ALL EXPOSED EDGES TO BE 1" CHAMFERED.
  3. COVER TO REINFORCING: 2" U.N.O.
  4. WATER REPELLANT COATING TO BE APPLIED ON FRONT, TOP AND 1.5' DOWN BACK FACE.



**ELEVATION**  
SCALE: 1/2" = 1'-0"



**1 DETAIL**  
SCALE: 1" = 1'-0"

WW3 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
DTJ	CERTI-VEX PENSEAL 244 WATER REPELLANT	0.25	GA	
CSANC-C	CONSPAN WINGWALL ANCHOR "C"	1	EA	
EM-00005	1" X 8" PRESET WING INSERTS	2	EA	
EM-00115	UTILITY ANCHOR #8UA671-GALVANIZED	4	EA	
RM-00014	REBAR #4 EPOXY- GR 60 40'	73	LB	
RM-00016	REBAR #5 EPOXY- GR 60 40'	46	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	1.29	CY	

PIECE QUANTITY: 1 EACH  
WEIGHT: 3.51 TONS

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Rev.	Date	DESCRIPTION	By
10			
9			
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2			
1	04/22/2016	CORRECTED TO "WW3" IN TITLE BLOCK.	AK

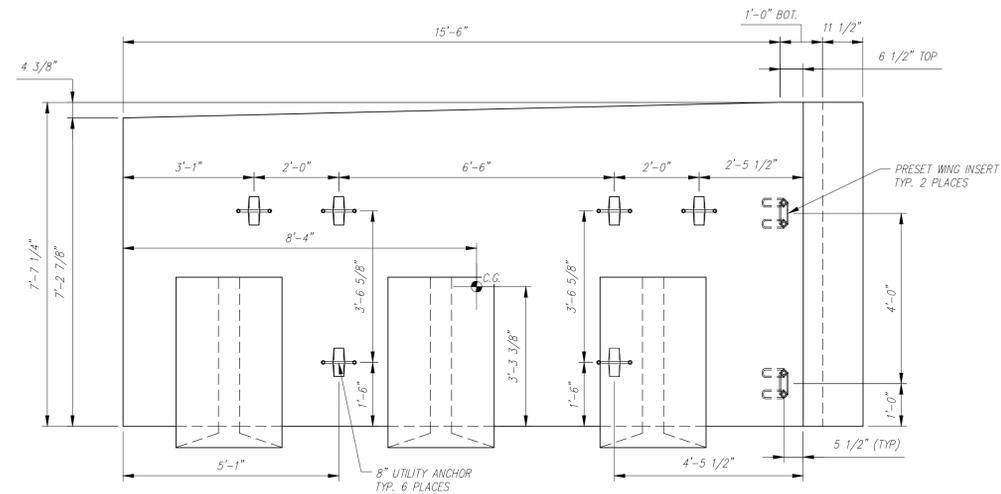
This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

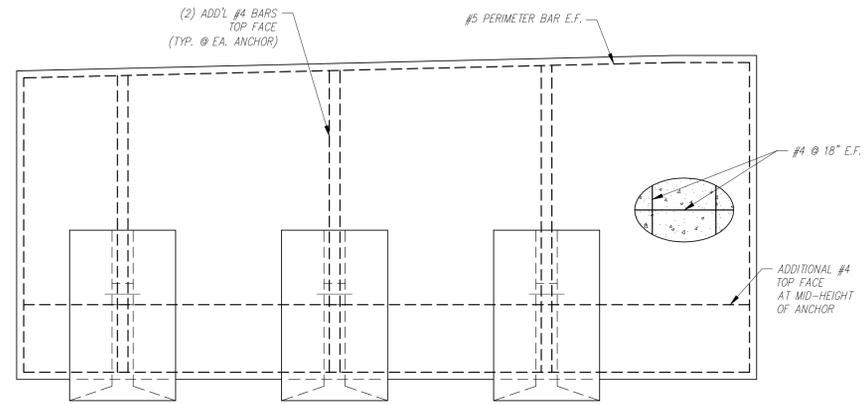
STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING -- WW3  
 R-S22624-WW3  
 Quantity: 1 Project No: SHEET WW3 OF 1

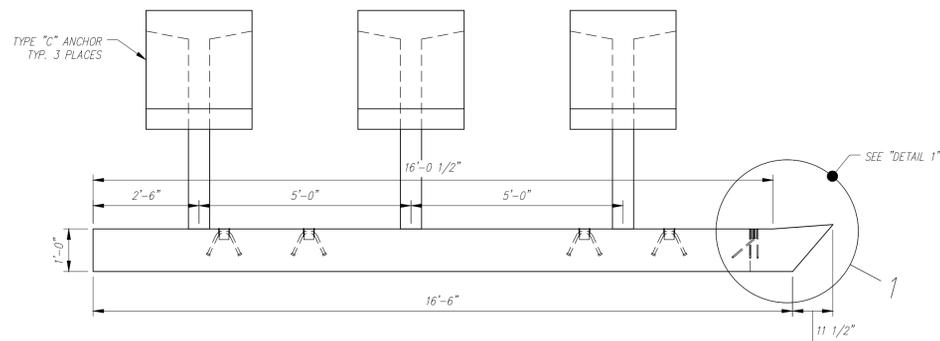
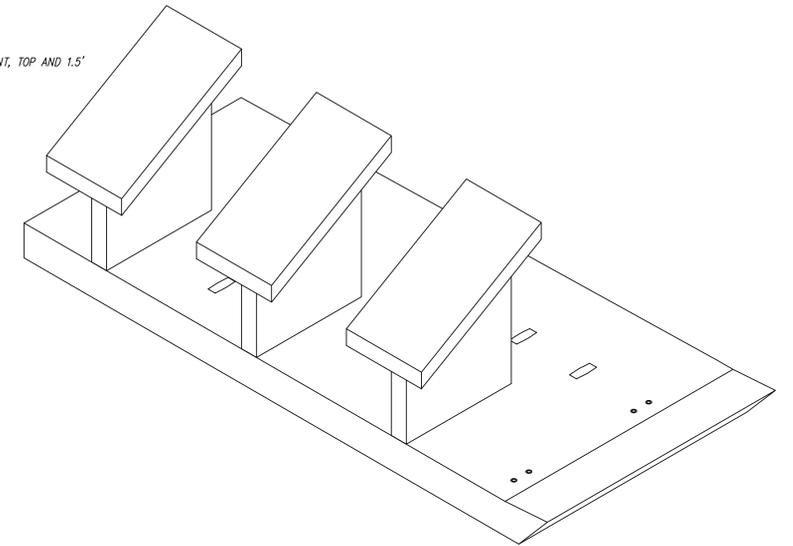
- NOTES:
1. ALL REINFORCING TO BE EPOXY COATED.
  2. ALL EXPOSED EDGES TO BE 1" CHAMFERED.
  3. COVER TO REINFORCING: 2" U.N.O.
  4. WATER REPELLANT COATING TO BE APPLIED ON FRONT, TOP AND 1.5' DOWN BACK FACE.



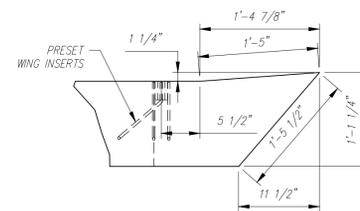
PLAN (CASTING POSITION)  
SCALE: 1/2" = 1'-0"



REINFORCING PLAN  
SCALE: 1/2" = 1'-0"



ELEVATION  
SCALE: 1/2" = 1'-0"



DETAIL  
SCALE: 1" = 1'-0"

WW4 - BILL OF MATERIALS / EMBEDS			
CSI ID#	DESCRIPTION	QTY	UM COMMENTS
DTJ	CERTI-VEX PENSEAL 244 WATER REPELLANT	1	GA
CSANC-C	CON/SPAN WINGWALL ANCHOR "C"	3	EA
EM-00005	1" X 8" PRESET WING INSERTS	2	EA
EM-00115	UTILITY ANCHOR #BUA671-GALVANIZED	6	EA
RM-00014	REBAR #4 EPOXY-GR 60 40'	266	LB
RM-00016	REBAR #5 EPOXY-GR 60 40'	101	LB
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	4.68	CY

PIECE QUANTITY: 1 EACH  
WEIGHT: 12.18 TONS

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Rev.	Date	DESCRIPTION	By
10			
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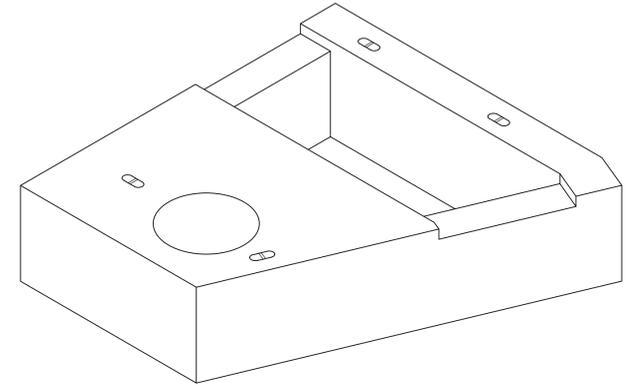
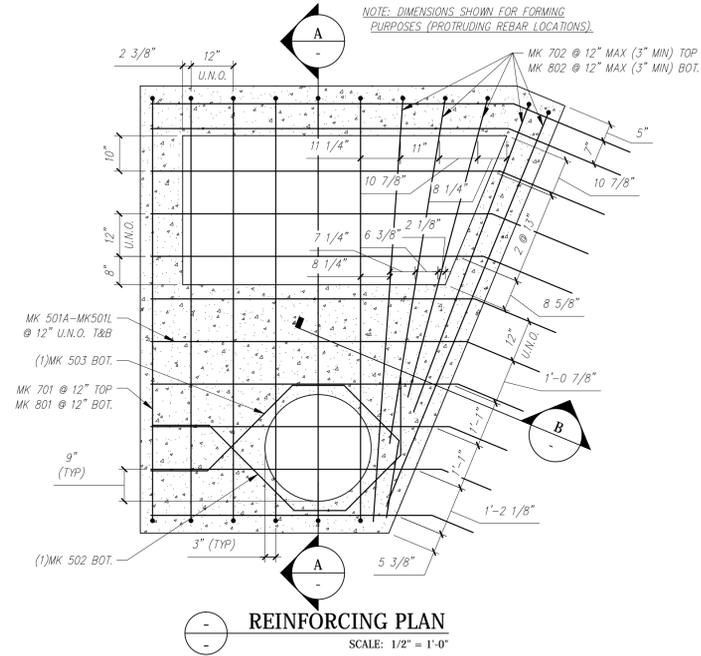
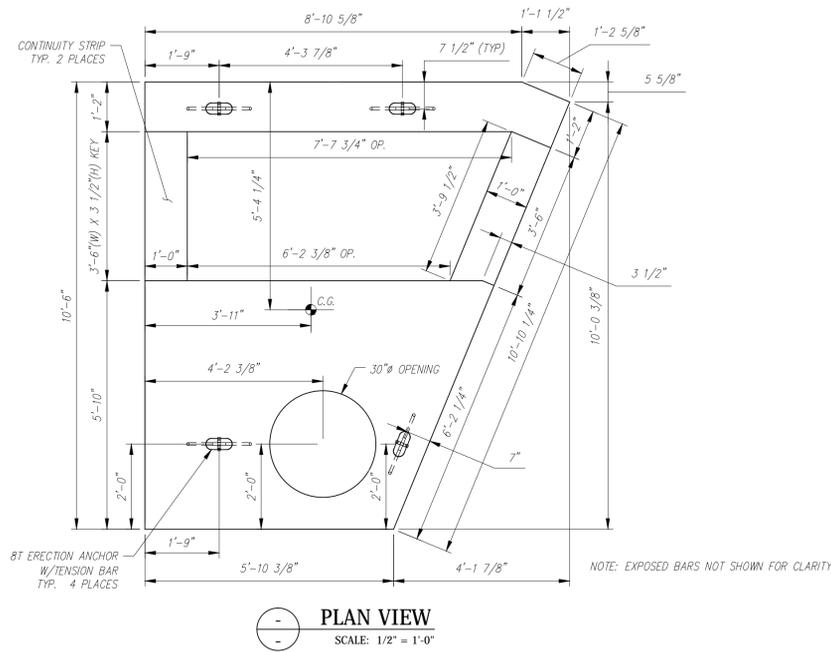
This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

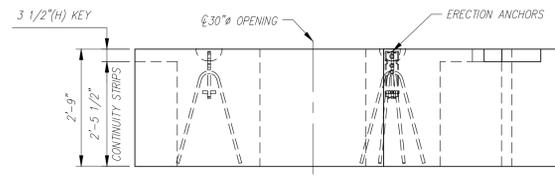
STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By: A. KOSTENKO  
 Date: 04/04/2016

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING - WW4  
 R-S22624-WW4  
 Quantity: 1 Project No: SHEET WW4 OF

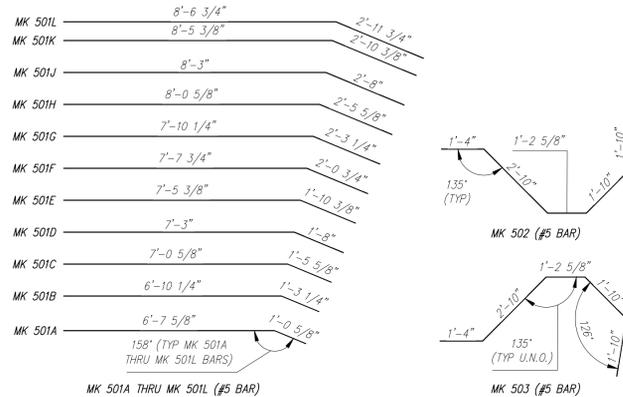
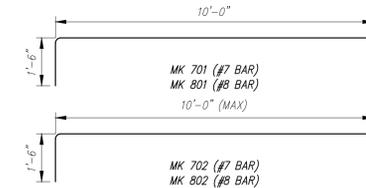
- NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



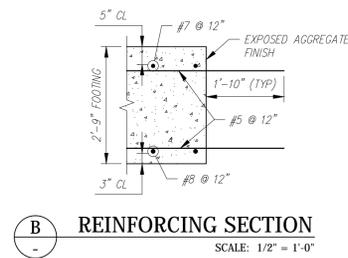
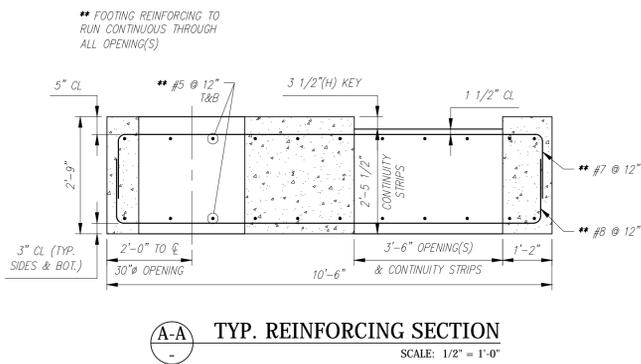
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



**BENDING SCHEDULE**  
SCALE: 3/8" = 1'-0"

F1 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 40'	242	LB	
RM-00009	REBAR #7 BLACK-GR 60	277	LB	
RM-00104	REBAR #8 BLACK GR 60	362	LB	
MK-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	5.52	CY	

F1 Rebar Schedule		
MK	QTY	LENGTH
501A #5	2	7' - 8.5"
501B #5	2	8' - 1.5"
501C #5	2	8' - 6.5"
501D #5	2	8' - 11"
501E #5	2	9' - 4"
501F #5	2	9' - 8.5"
501G #5	2	10' - 1.5"
501H #5	2	10' - 6.5"
501J #5	2	10' - 11"
501K #5	2	11' - 4"
501L #5	2	11' - 6.5"
502 #5	1	9' - 0.5"
503 #5	1	9' - 0.5"
701 #7	6	13' - 0"
702 #7	5	11' - 6" MAX
801 #8	6	13' - 0"
802 #8	5	11' - 6" MAX



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Rev.	Date	DESCRIPTION	By
10			
9			
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2			
1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

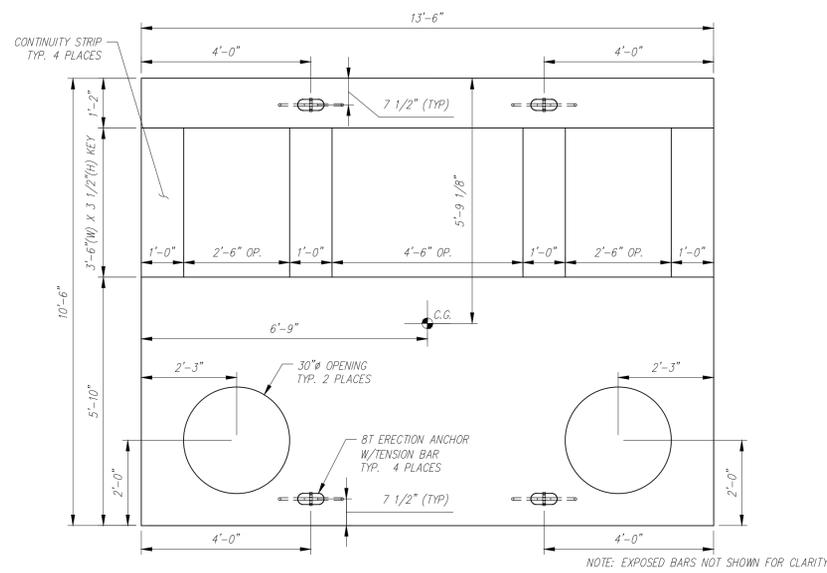
**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By: A. KOSTENKO  
 Date: 04/04/2016

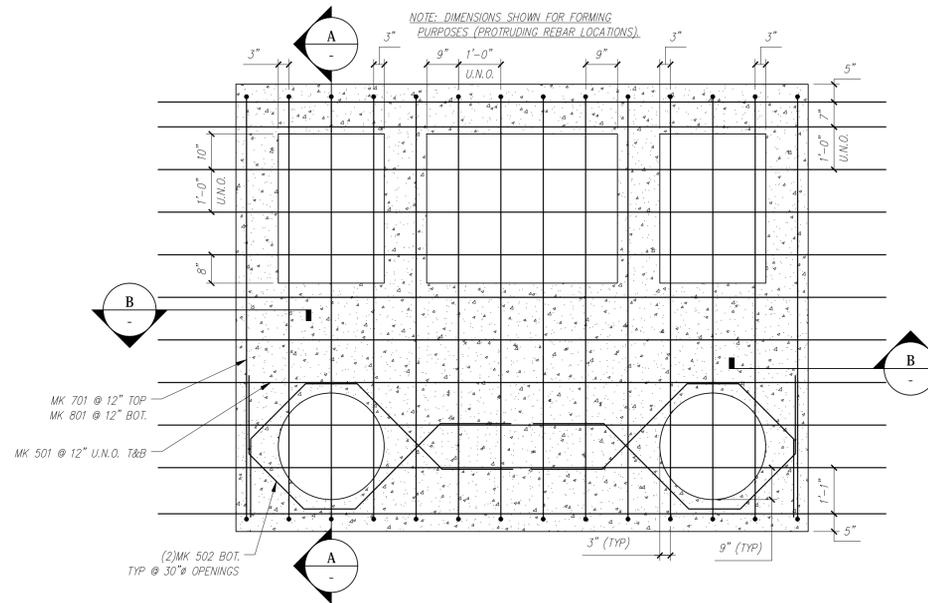
PIECE QUANTITY: 1 EACH  
 WEIGHT: 11.18 TONS

VTAOT PROJ. NO.: BRF 0151(21)	
MILLER CONSTRUCTION, INC. ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD) WOODSTOCK, VT	
SHOP DRAWING - F1	
Drawing No. R-S22624-F1	REV 1
Quantity: 1	Project No: SHEET F1 OF

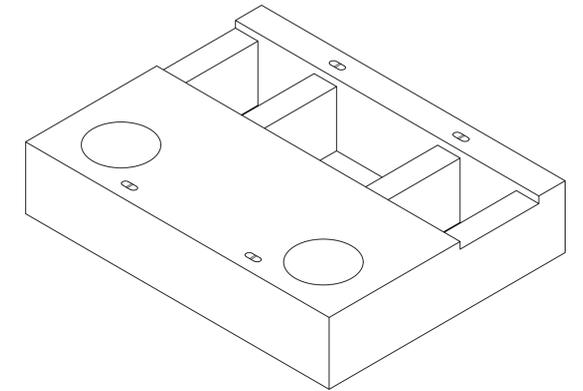
- NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



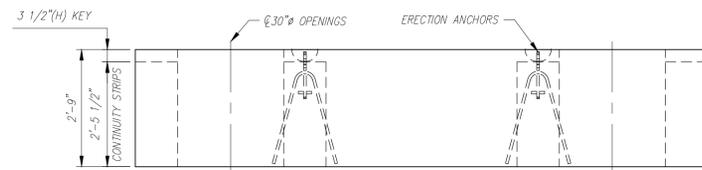
PLAN VIEW  
 SCALE: 1/2" = 1'-0"



REINFORCING PLAN  
 SCALE: 1/2" = 1'-0"



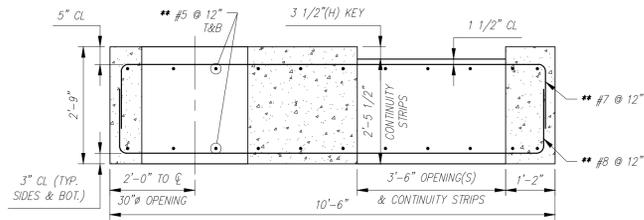
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



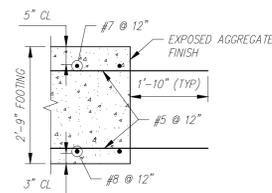
FRONT ELEVATION  
 SCALE: 1/2" = 1'-0"

NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

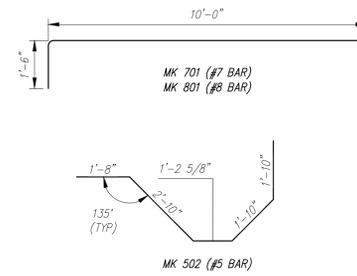
\*\* FOOTING REINFORCING TO RUN CONTINUOUS THROUGH ALL OPENING(S)



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



BENDING SCHEDULE  
 SCALE: 3/8" = 1'-0"

F2 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	WTENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 4'	433	LB	
RM-00009	REBAR #7 BLACK-GR 60	372	LB	
RM-00104	REBAR #8 BLACK GR 60	486	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	9.90	CY	

F2 Rebar Schedule		
MK	QTY	LENGTH
501	#5	22 17' - 2"
502	#5	4 9' - 4.5"
701	#7	14 13' - 0"
801	#8	14 13' - 0"

PIECE QUANTITY: 1 EACH  
 WEIGHT: 20.05 TONS

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Rev.	Date	DESCRIPTION	By
10			
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2			
1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

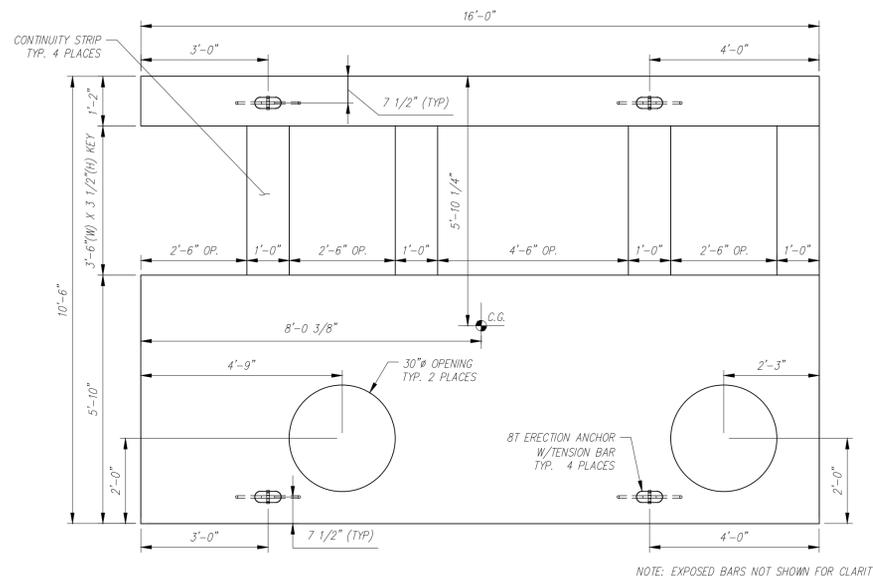
This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

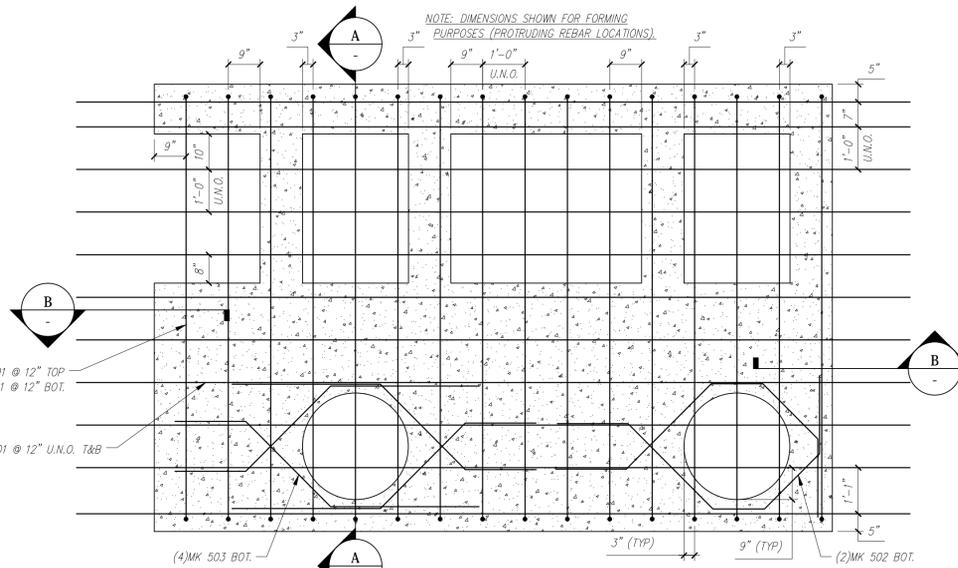
STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING - F2  
 R-S22624-F2  
 Quantity: 1 Project No: SHEET F2 OF 1

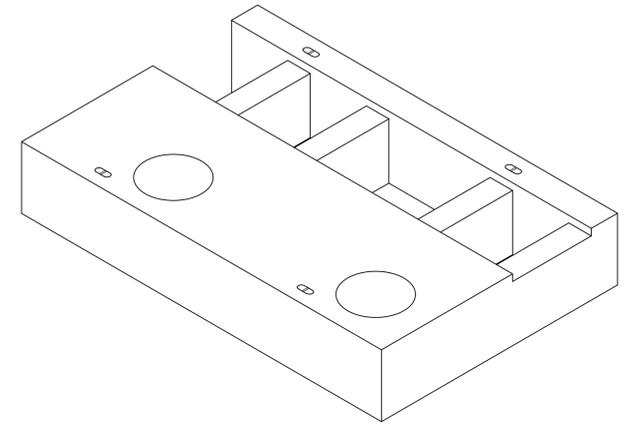
- NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



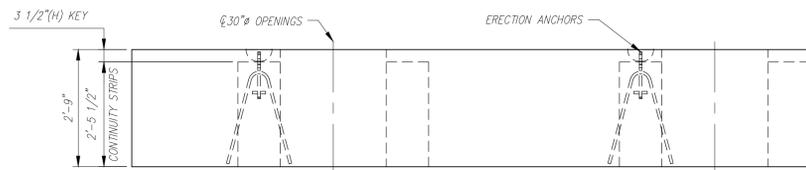
PLAN VIEW  
SCALE: 1/2" = 1'-0"



REINFORCING PLAN  
SCALE: 1/2" = 1'-0"

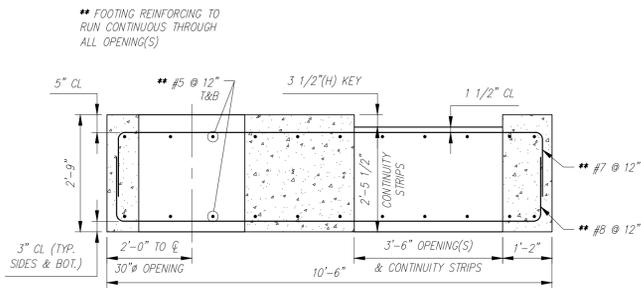


NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

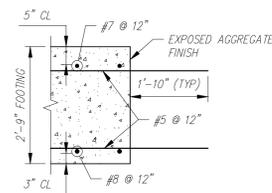


FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

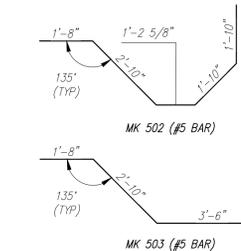
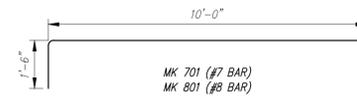
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



TYP. REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



TYP. REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



BENDING SCHEDULE  
SCALE: 3/8" = 1'-0"

F3 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 40'	504	LB	
RM-00009	REBAR #7 BLACK-GR 60	425	LB	
RM-00104	REBAR #8 BLACK GR 60	555	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	11.68	CY	

F3 Rebar Schedule			
MK	QTY	LENGTH	
501	#5	22	19' 8"
502	#5	2	9' 4.5"
503	#5	4	8' 0"
701	#7	16	13' 0"
801	#8	16	13' 0"

PIECE QUANTITY: 1 EACH  
 WEIGHT: 23.66 TONS

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1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

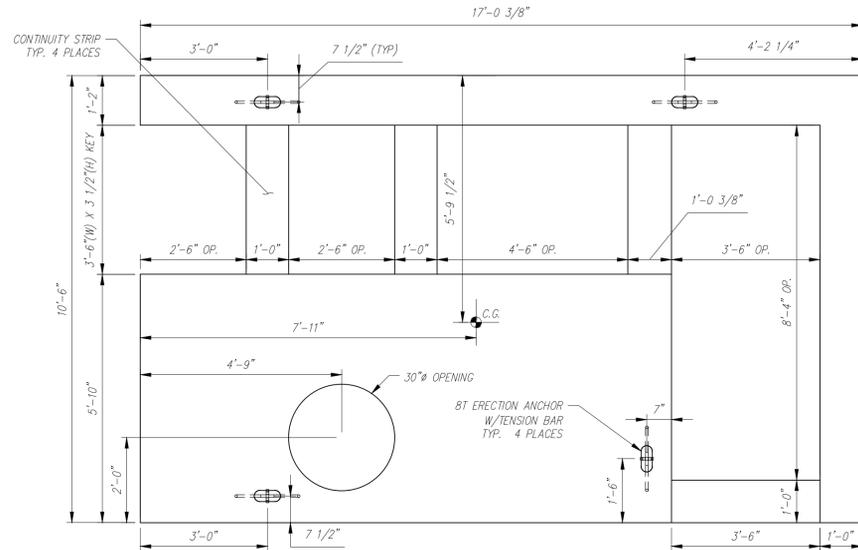
This drawing is based upon information provided from the following documents and/or sources:  
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 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

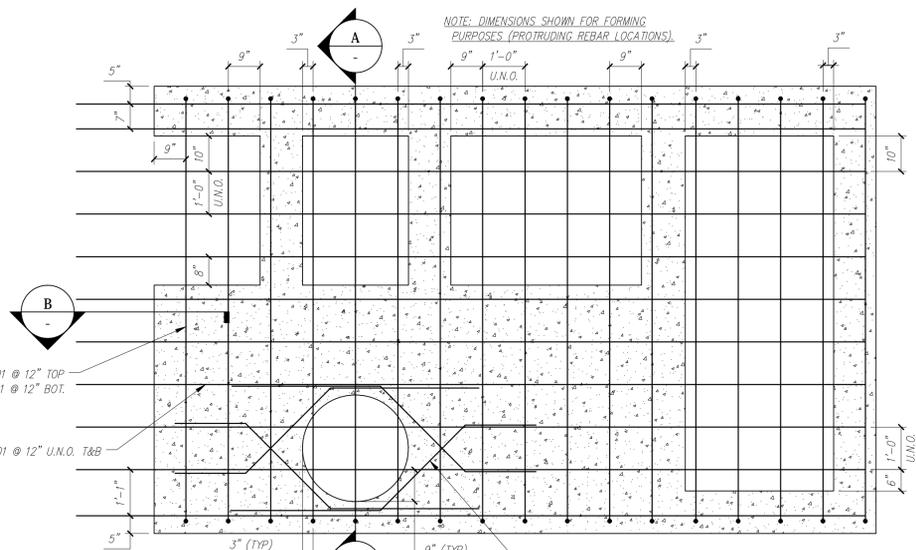
STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Date: 04/04/2016  
 Approved By:  
 Date:

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING - F3  
 Drawing No. R-S22624-F3  
 Quantity: 1 Project No: SHEET F3 OF 1

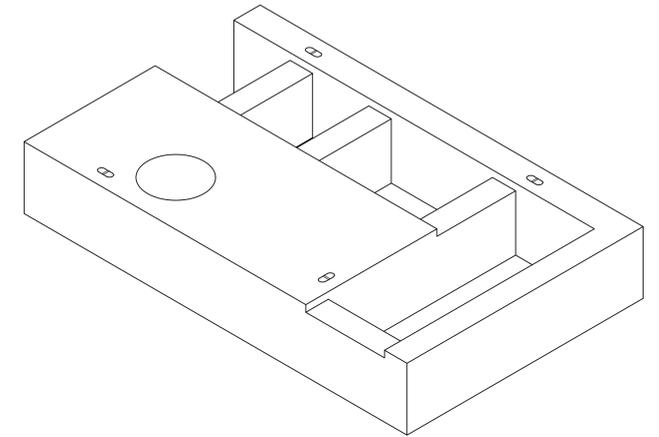
- NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



PLAN VIEW  
SCALE: 1/2" = 1'-0"

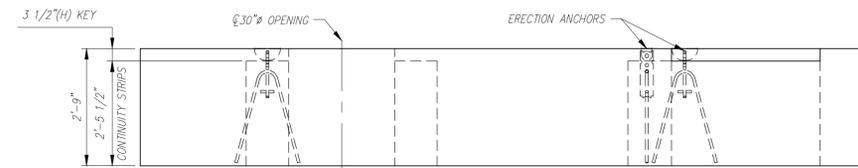


REINFORCING PLAN  
SCALE: 1/2" = 1'-0"



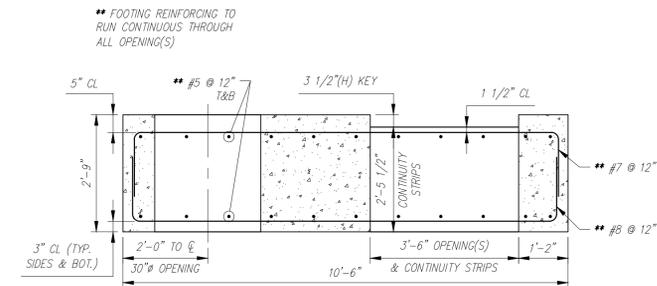
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

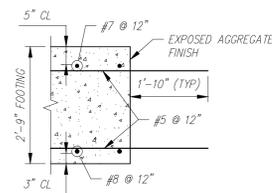


FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

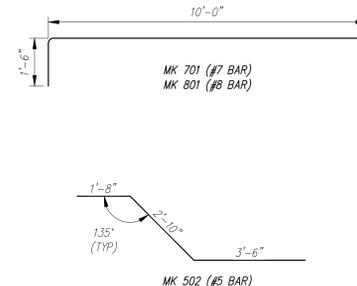
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



TYP. REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



TYP. REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



BENDING SCHEDULE  
SCALE: 3/8" = 1'-0"

F4 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 40'	461	LB	
RM-00009	REBAR #7 BLACK-GR 60	452	LB	
RM-00104	REBAR #8 BLACK GR 60	590	LB	
MK-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	11.20	CY	

F4 Rebar Schedule		
MK	QTY	LENGTH
501	#5	22 18' 7.5"
502	#5	4 8' 0"
701	#7	17 13' 0"
801	#8	17 13' 0"

PIECE QUANTITY: 1 EACH  
 WEIGHT: 22.69 TONS

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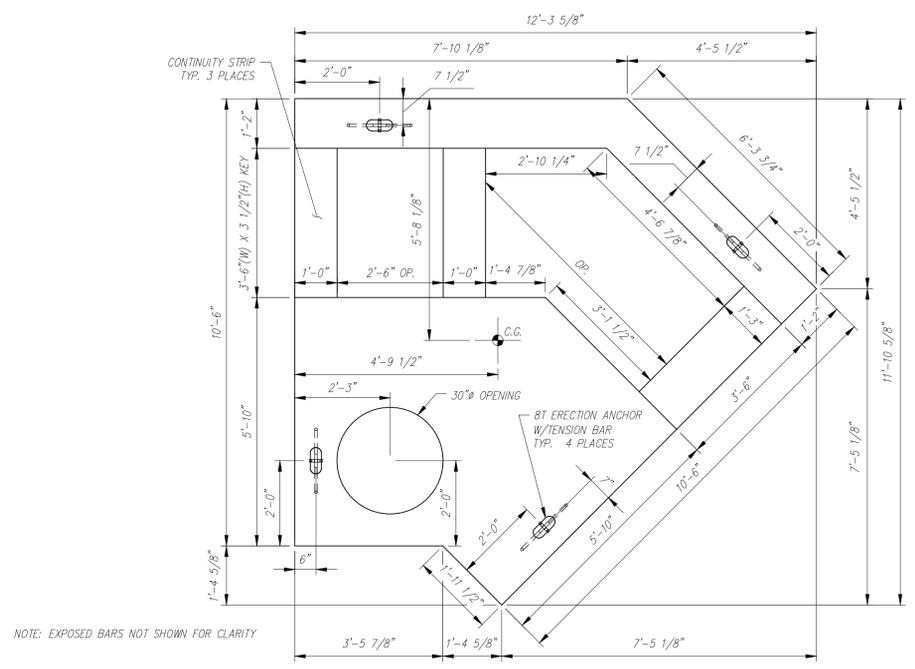
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1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK	
Rev.	Date	DESCRIPTION	By	
		REVISIONS		

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

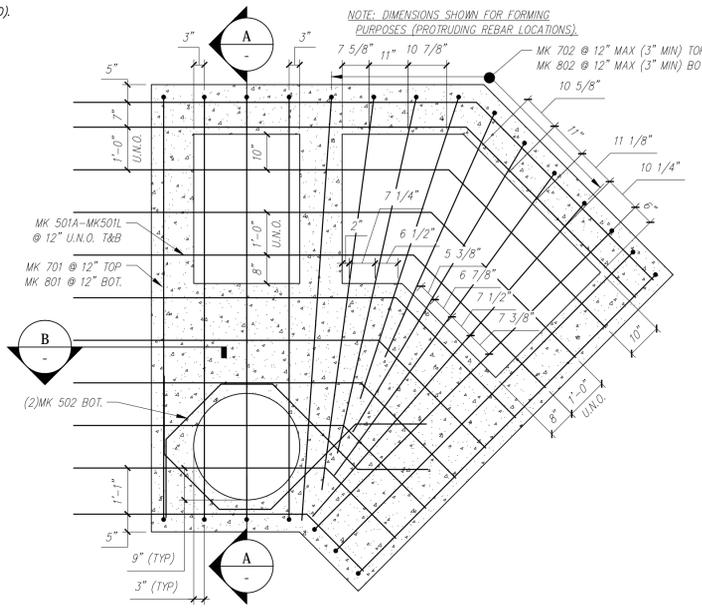
**CSI**  
 Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

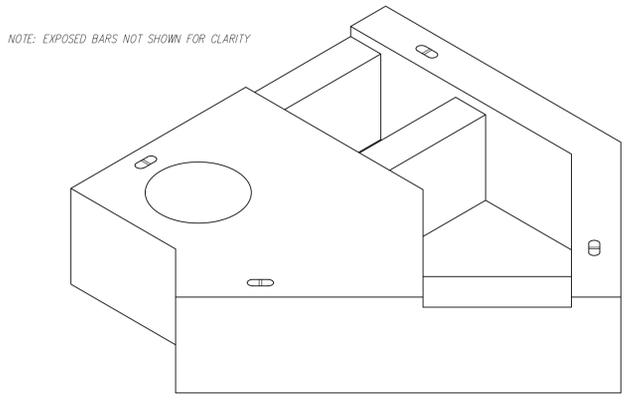
VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING - F4  
 Drawing No. R-S22624-F4  
 Quantity: 1 Project No: SHEET F4 OF 1



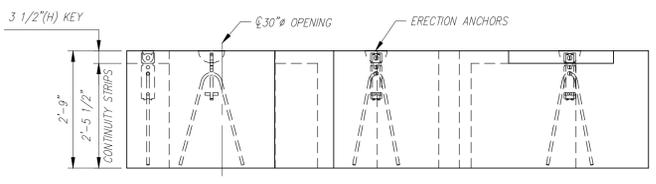
**PLAN VIEW**  
SCALE: 1/2" = 1'-0"



**REINFORCING PLAN**  
SCALE: 1/2" = 1'-0"

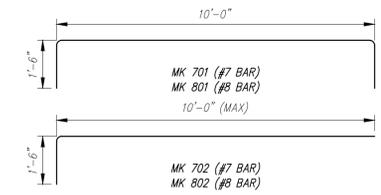


NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

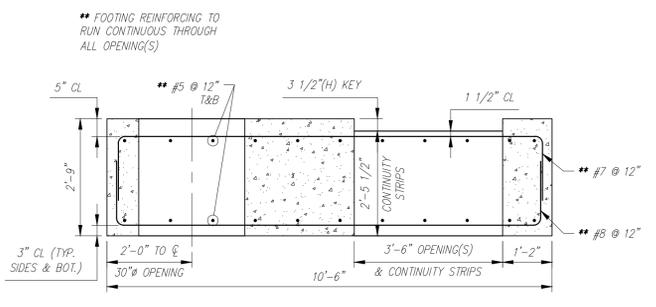


**FRONT ELEVATION**  
SCALE: 1/2" = 1'-0"

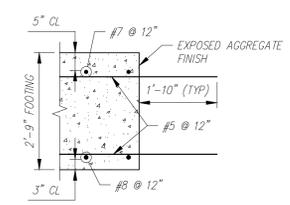
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



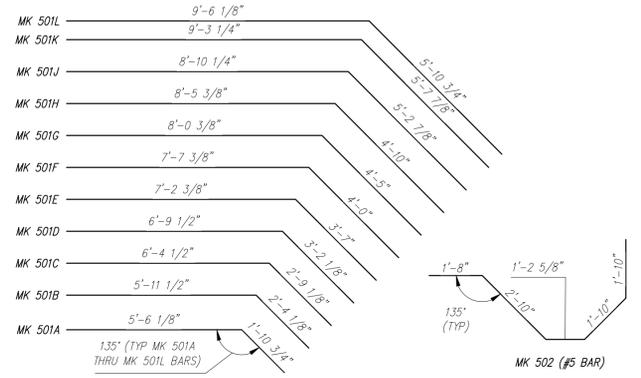
F5 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 40'	285	LB	
RM-00009	REBAR #7 BLACK-GR 60	374	LB	
RM-00104	REBAR #8 BLACK GR 60	489	LB	
MK-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	6.84	CY	



**TYP. REINFORCING SECTION**  
SCALE: 1/2" = 1'-0"



**TYP. REINFORCING SECTION**  
SCALE: 1/2" = 1'-0"



**BENDING SCHEDULE**  
SCALE: 3/8" = 1'-0"

F5 Rebar Schedule		
MK	QTY	LENGTH
501A	#5	2 7' 5"
501B	#5	2 8' 3.5"
501C	#5	2 9' 1.5"
501D	#5	2 9' 11.5"
501E	#5	2 10' 9.5"
501F	#5	2 11' 7.5"
501G	#5	2 12' 5.5"
501H	#5	2 13' 3"
501J	#5	2 14' 1"
501K	#5	2 14' 11"
501L	#5	2 15' 5"
502	#5	2 9' 4.5"
701	#7	7 13' 0"
702	#7	8 11' 6" MAX
801	#8	7 13' 0"
802	#8	8 11' 6" MAX

PIECE QUANTITY: 1 EACH  
WEIGHT: 13.84 TONS

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10				
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1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK	
Rev.	Date	DESCRIPTION	By	
		REVISIONS		

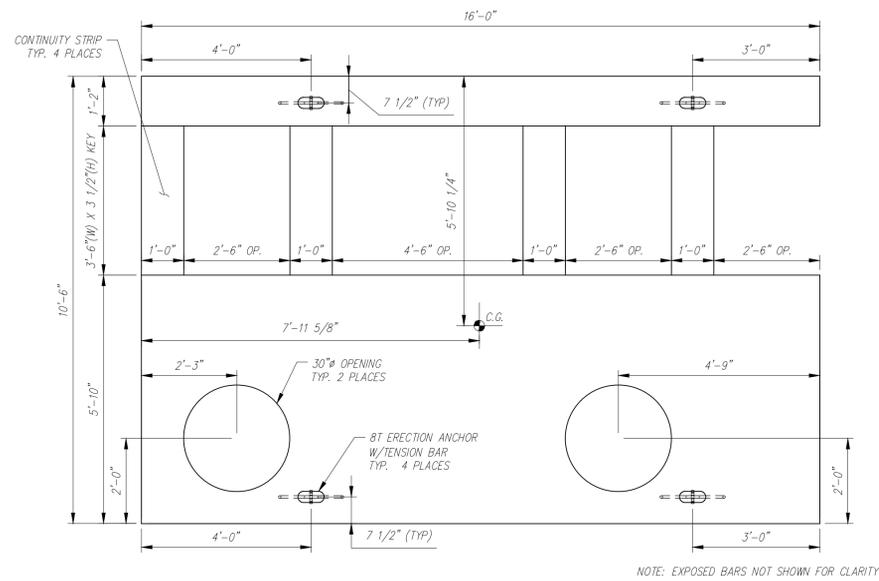
This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH 03051  
Phone 603-889-4163  
Fax 603-889-2417

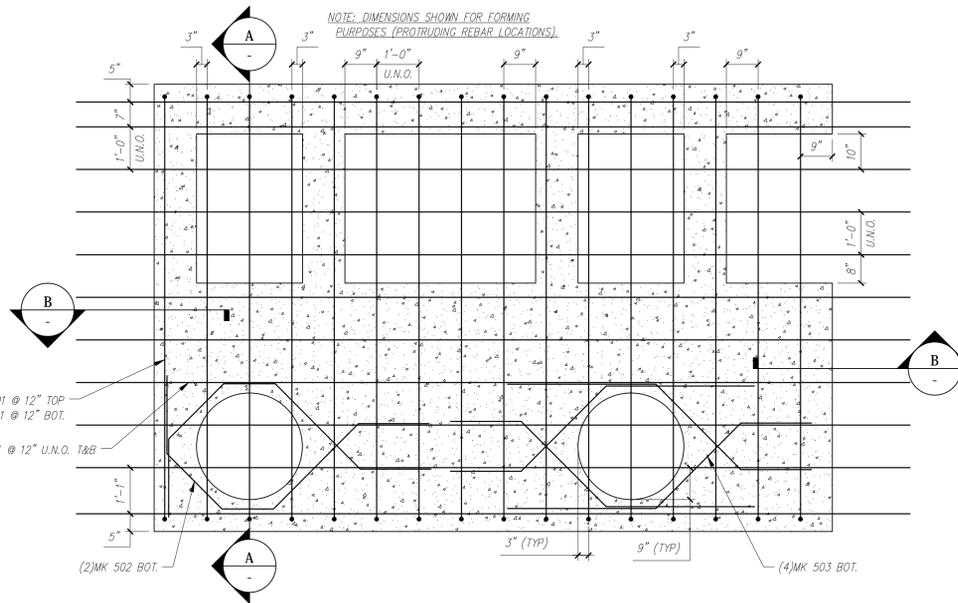
STATE AGENCY  
**VTrans**  
Vermont  
Drawing No. **A. KOSTENKO**  
Date **04/04/2016**  
Reviewed By  
Date  
Approved By  
Date

VTAOT PROJ. NO.: BRF 0151(21)  
MILLER CONSTRUCTION, INC.  
ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
WOODSTOCK, VT  
SHOP DRAWING - F5  
Drawing No. **R-S22624-F5**  
Quantity: 1 Project No: SHEET F5 OF 1

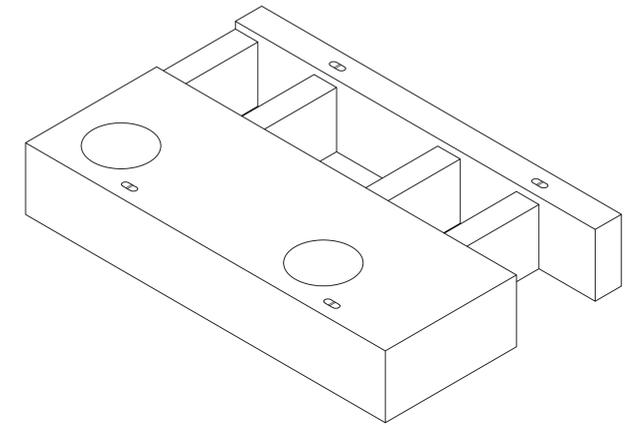
- NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



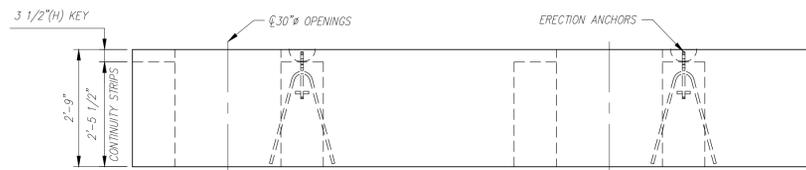
PLAN VIEW  
 SCALE: 1/2" = 1'-0"



REINFORCING PLAN  
 SCALE: 1/2" = 1'-0"

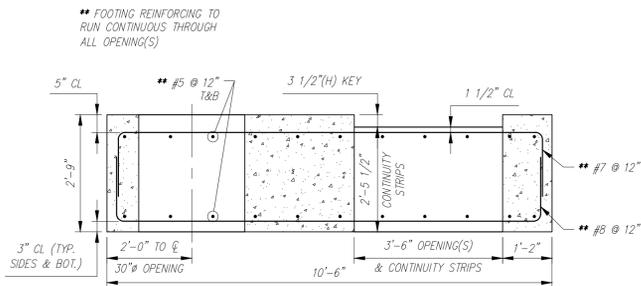


NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

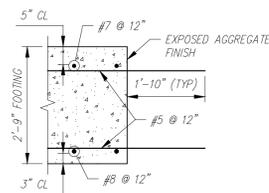


FRONT ELEVATION  
 SCALE: 1/2" = 1'-0"

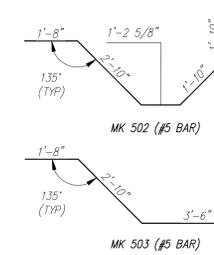
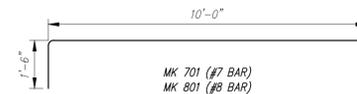
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



BENDING SCHEDULE  
 SCALE: 3/8" = 1'-0"

F6 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QLO49G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 40'	504	LB	
RM-00009	REBAR #7 BLACK-GR 60	425	LB	
RM-00104	REBAR #8 BLACK-GR 60	555	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	11.68	CY	

F6 Rebar Schedule		
MK	QTY	LENGTH
501	#5	22 19' - 8"
502	#5	2 9' - 4.5"
503	#5	4 8' - 0"
701	#7	16 13' - 0"
801	#8	16 13' - 0"

PIECE QUANTITY: 1 EACH  
 WEIGHT: 23.66 TONS

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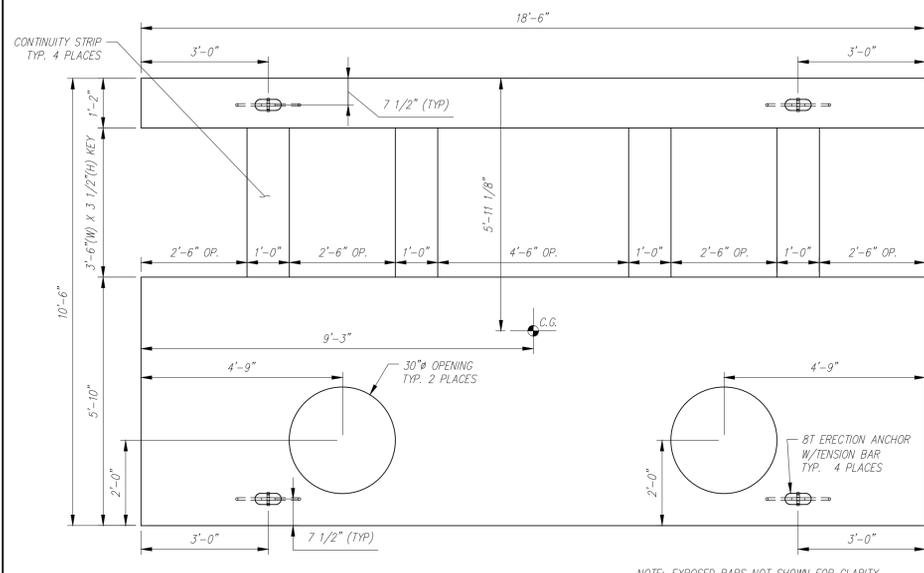
Rev.	Date	DESCRIPTION	By
10			
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1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

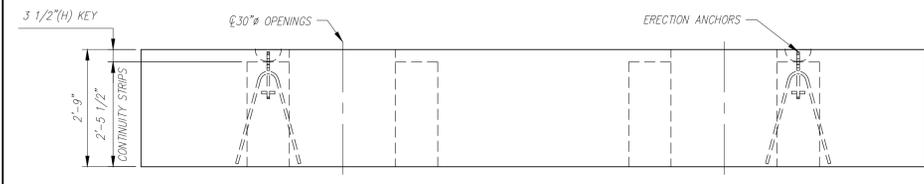
**CSI**  
 Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Date: 04/04/2016  
 Approved By:  
 Date:

VTAOT PROJ. NO.: BRF 0151(21)  
 MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT  
 SHOP DRAWING - F6  
 Drawing No. R-S22624-F6  
 Quantity: 1 Project No: SHEET F6 OF 1

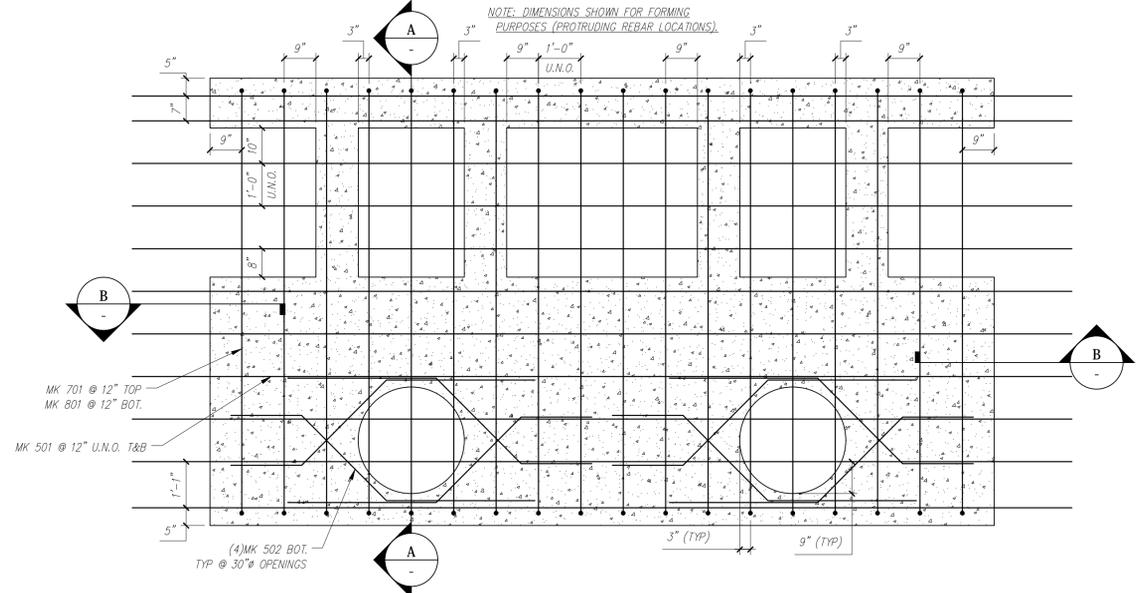


**PLAN VIEW**  
SCALE: 1/2" = 1'-0"

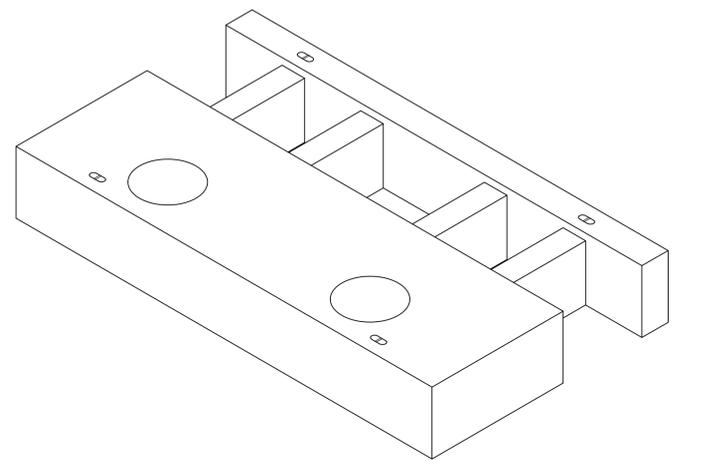


**FRONT ELEVATION**  
SCALE: 1/2" = 1'-0"

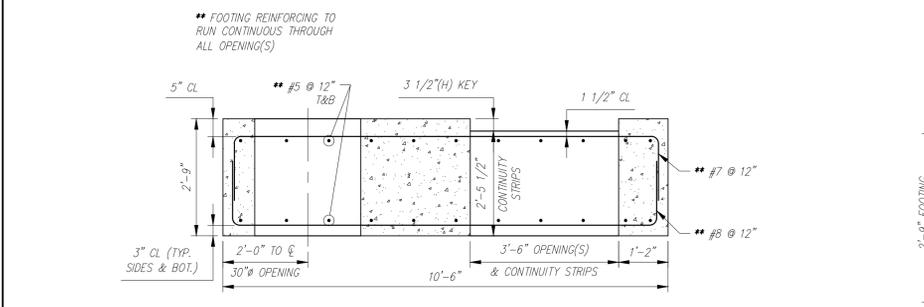
NOTES:  
1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
2. COVER TO REINFORCING: SEE DETAILS



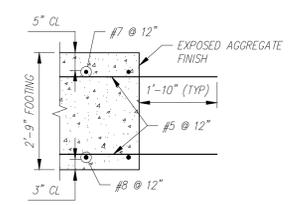
**REINFORCING PLAN**  
SCALE: 1/2" = 1'-0"



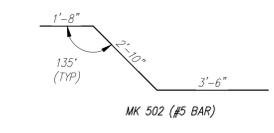
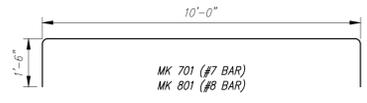
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



**TYP. REINFORCING SECTION**  
SCALE: 1/2" = 1'-0"



**TYP. REINFORCING SECTION**  
SCALE: 1/2" = 1'-0"



**BENDING SCHEDULE**  
SCALE: 3/8" = 1'-0"

F7 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 40'	575	LB	
RM-00009	REBAR #7 BLACK-GR 60	478	LB	
RM-00104	REBAR #8 BLACK-GR 60	625	LB	
MX-FA5000SC30	MX DESIGN - FLY ASH 5000 SELF COMPACTIN	13.46	CY	

F7 Rebar Schedule		
MK	QTY	LENGTH
501	#5	22' 2" 2"
502	#5	8' 0"
701	#7	18' 13' 0"
801	#8	18' 13' 0"

PIECE QUANTITY: 1 EACH  
WEIGHT: 27.27 TONS

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1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK

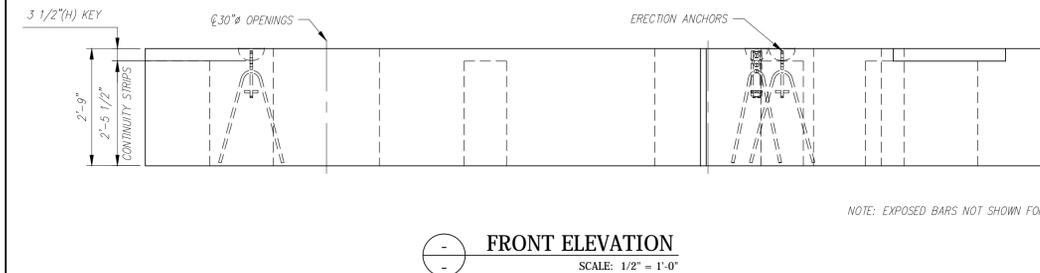
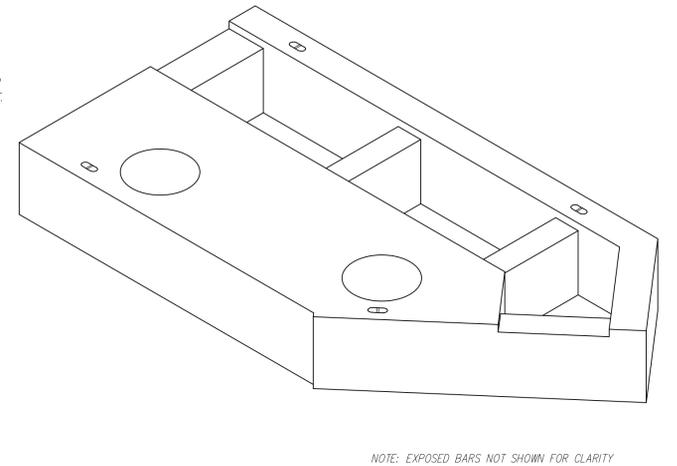
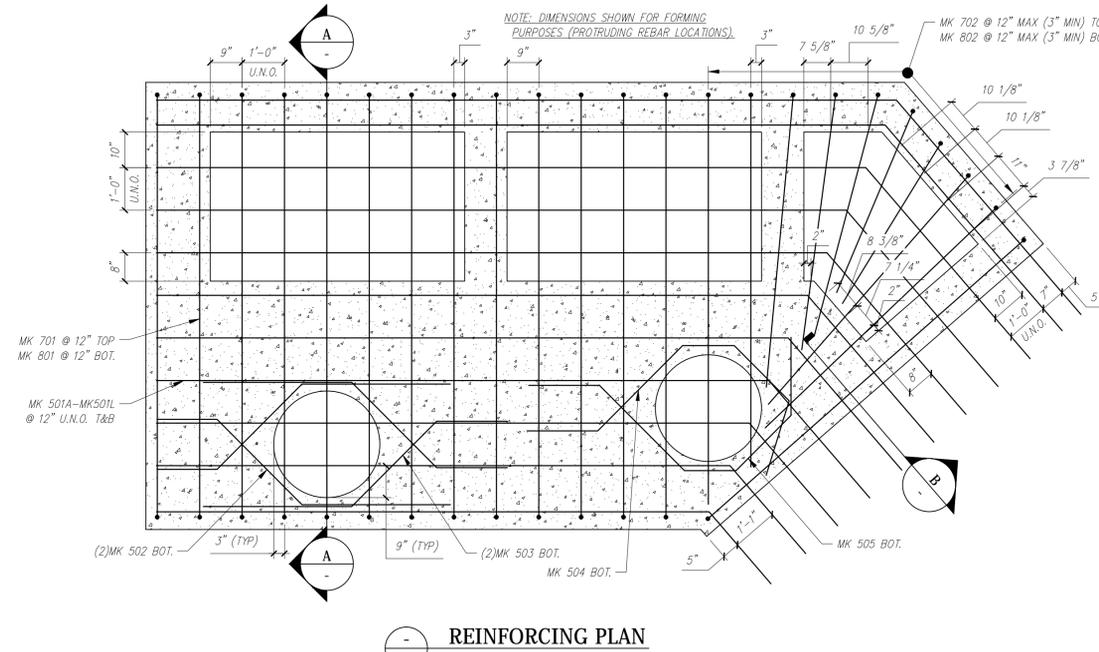
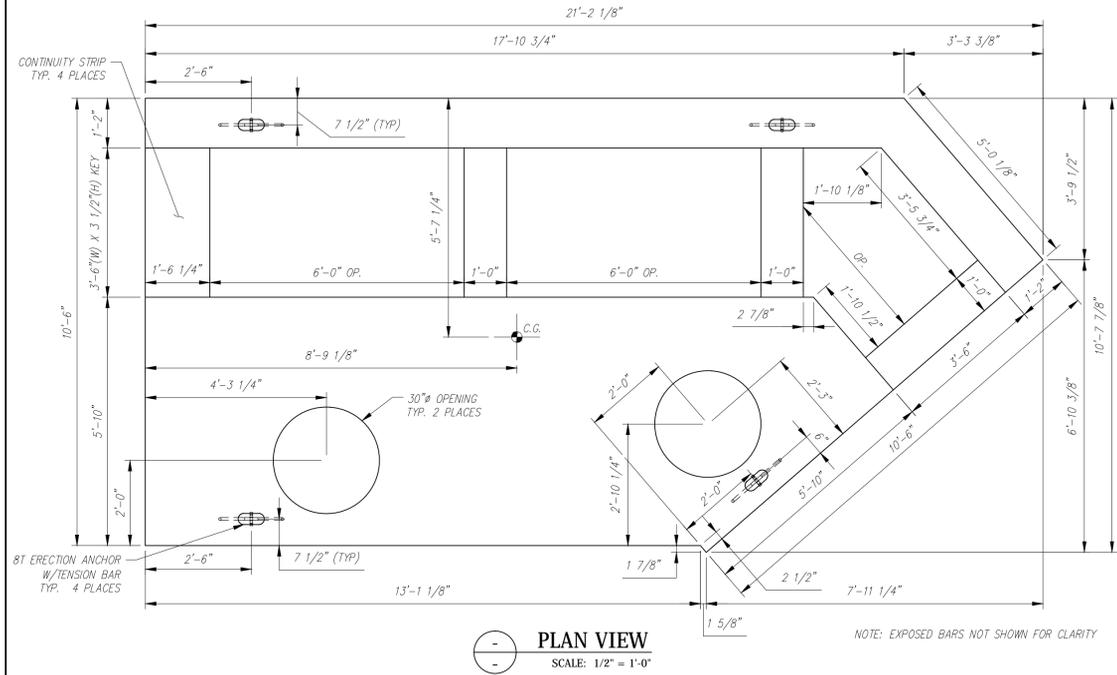
This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 By  
 Other Sources:

Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
VTrans  
Drawn By: A. KOSTENKO  
Reviewed By:  
Approved By:  
Date: 04/04/2016

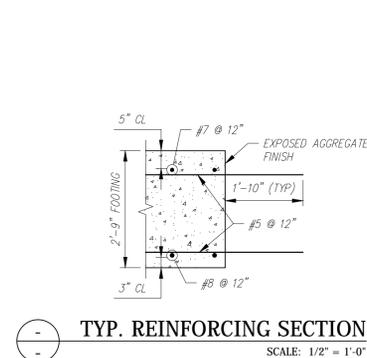
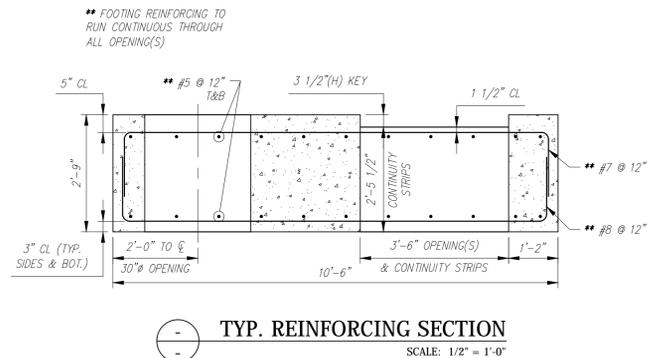
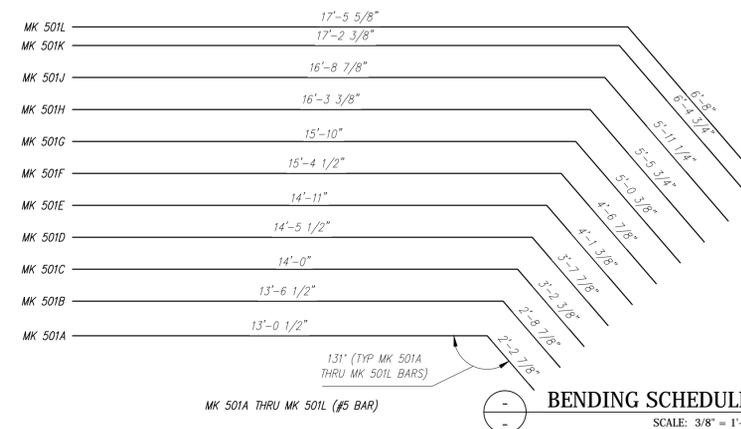
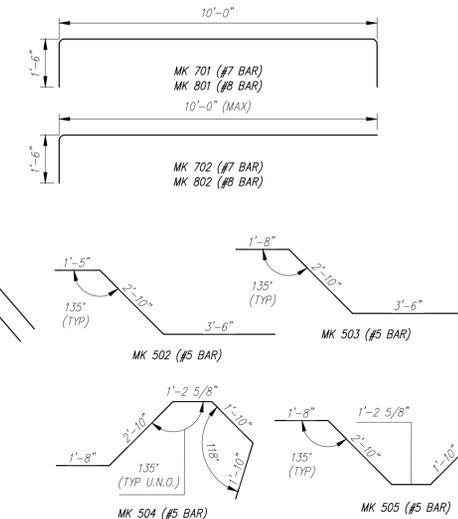
VTAOT PROJ. NO.: BRF 0151(21)  
MILLER CONSTRUCTION, INC.  
ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
WOODSTOCK, VT  
SHOP DRAWING - F7  
R-S22624-F7  
Quantity: 1 Project No: SHEET F7 OF

NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



F8 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00122	8TON ERECTION ANCHOR GALV QLO49G	4	EA	W/TENSION BAR
RM-00015	REBAR #5 BLACK-GR 60 4'	509	LB	
RM-00009	REBAR #7 BLACK-GR 60	584	LB	
RM-00104	REBAR #8 BLACK GR 60	762	LB	
MK-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	12.59	CY	

F8 Rebar Schedule			
MK	QTY	LENGTH	
501A #5	2	15' - 3.5"	
501B #5	2	16' - 3.5"	
501C #5	2	17' - 2.5"	
501D #5	2	18' - 1"	
501E #5	2	19' - 0"	
501F #5	2	19' - 11"	
501G #5	2	20' - 10"	
501H #5	2	21' - 9"	
501J #5	2	22' - 8"	
501K #5	2	23' - 7"	
501L #5	2	24' - 1.5"	
502 #5	2	7' - 9"	
503 #5	2	8' - 0"	
504 #5	1	9' - 4.5"	
505 #5	1	9' - 4.5"	
701 #7	14	13' - 0"	
702 #7	9	11' - 6"	MAX
801 #8	14	13' - 0"	
802 #8	9	11' - 6"	MAX



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1	04/15/2016	ADDED NOTES/DIMENSIONS TO "REINFORCING PLAN"	AK
Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Date: 04/04/2016  
 Reviewed By:  
 Date:  
 Approved By:  
 Date:

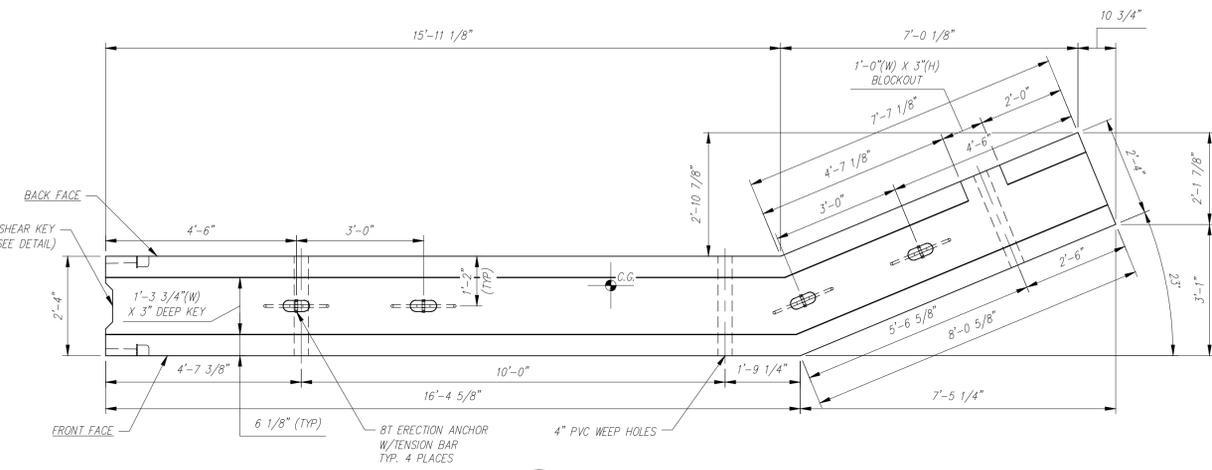
PIECE QUANTITY: 1 EACH  
 WEIGHT: 25.49 TONS

VTAOT PROJ. NO.: BRF 0151(21)

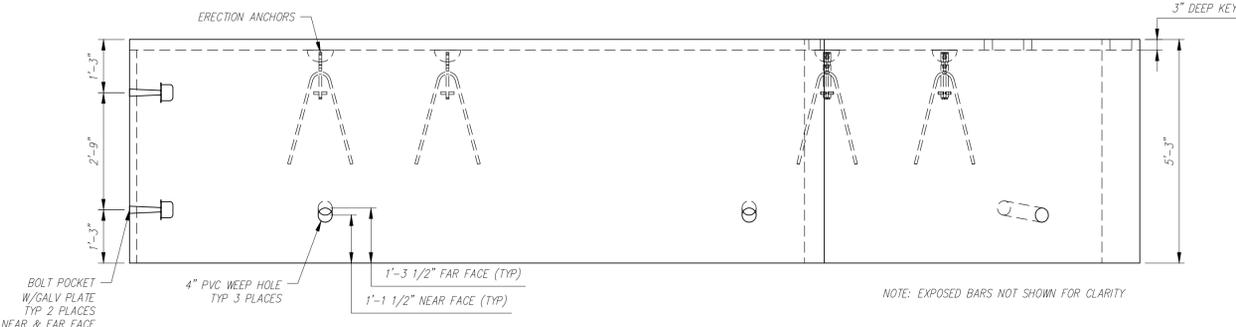
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

SHOP DRAWING - F8  
 R-S22624-F8

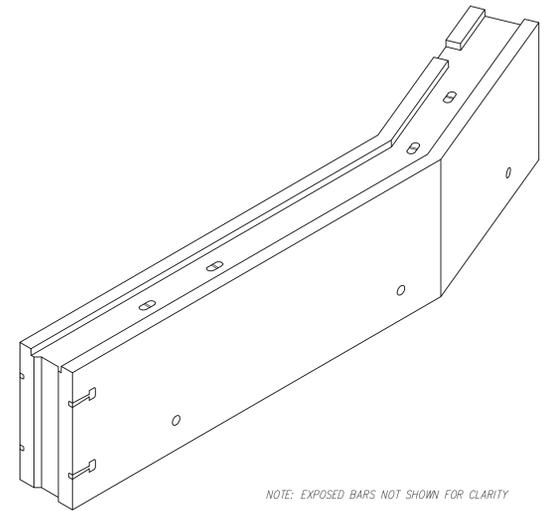
Quantity: 1 Project No: SHEET F8 OF



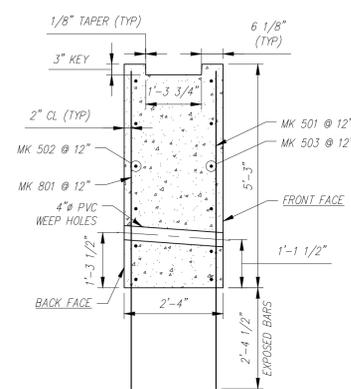
**PLAN VIEW**  
 SCALE: 1/2" = 1'-0"



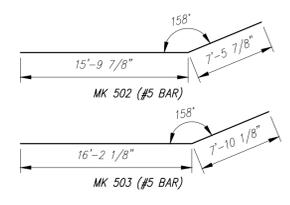
**FRONT FACE ELEVATION**  
 SCALE: 1/2" = 1'-0"



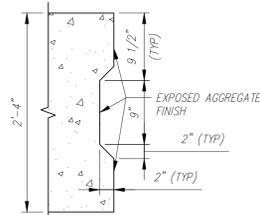
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



**TYP. REINFORCING SECTION**  
 SCALE: 1/2" = 1'-0"



**BENDING SCHEDULE**  
 SCALE: 1/8" = 1'-0"



**TYP. SHEAR KEY DETAIL (PLAN)**  
 SCALE: 1" = 1'-0"

P1 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	7.5	FT	
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
EM-00125	BOLT POCKET PLATES (GALVANIZED)	4	EA	
RM-00015	REBAR #5 BLACK-GR 60 40'	490	LB	
RM-00104	REBAR #8 BLACK GR 60	478	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	10.53	CY	

P1 Rebar Schedule		
MK	QTY	LENGTH
501 #5	25	7' - 5.5"
502 #5	6	23' - 3.5"
503 #5	6	24' - 0"
801 #8	24	7' - 5.5"

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Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

**CSI**  
 Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
**VTrans**  
 Drawn By: A. KOSTENKO  
 Reviewed By: [Signature]  
 Date: 04/04/2016  
 Approved By: [Signature]  
 Date:

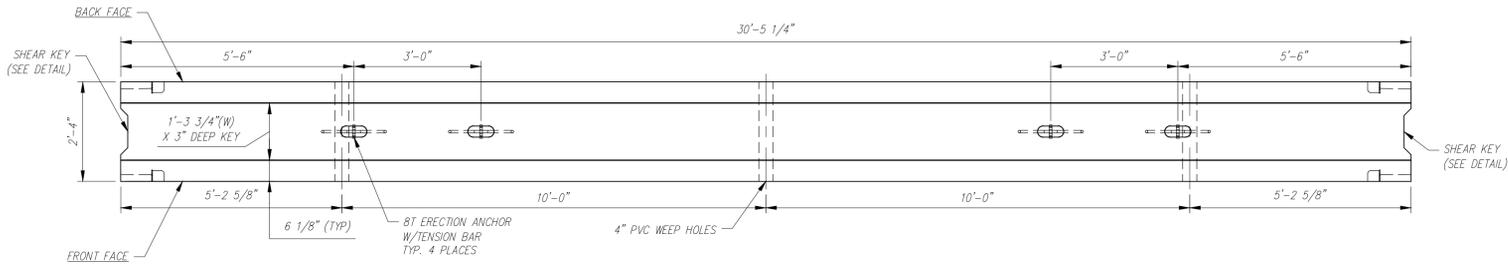
PIECE QUANTITY: 1 EACH  
 WEIGHT: 21.31 TONS

VTAOT PROJ. NO.: BRF 0151(21)

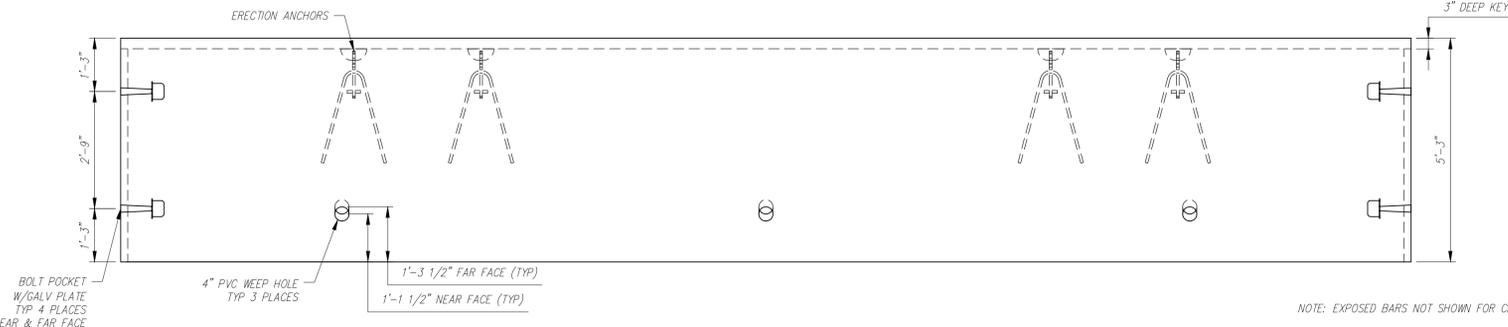
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

SHOP DRAWING - P1  
 Drawing No. R-S22624-P1  
 Quantity: 1 Project No: SHEET P1 OF 0

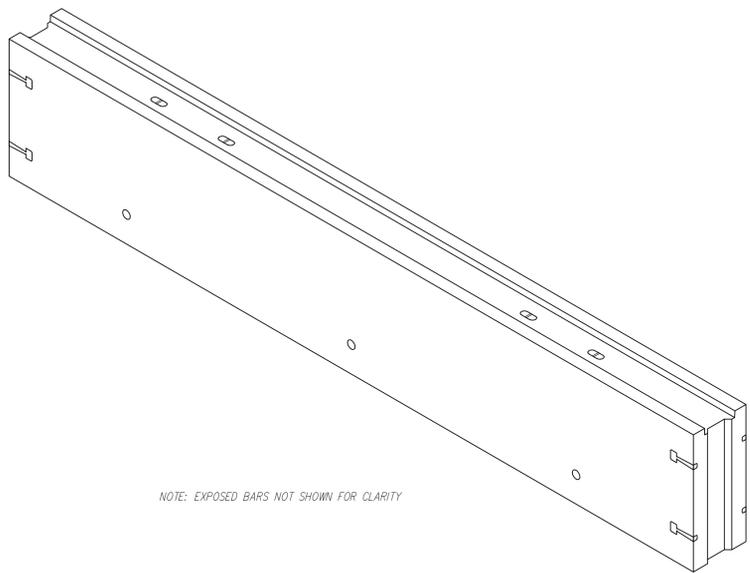
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



PLAN VIEW  
 SCALE: 1/2" = 1'-0"

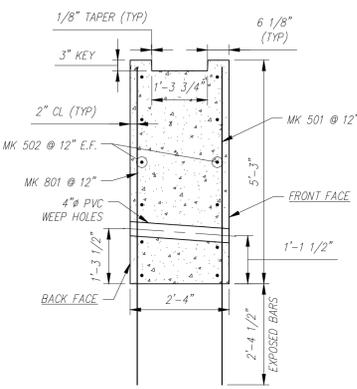


FRONT FACE ELEVATION  
 SCALE: 1/2" = 1'-0"

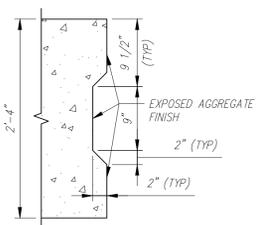


NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY

NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



TYP. SHEAR KEY DETAIL (PLAN)  
 SCALE: 1" = 1'-0"

P2 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	7.5	FT	
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
EM-00125	BOLT POCKET PLATES (GALVANIZED)	8	EA	
RM-00015	REBAR #8 BLACK-GR 60 40'	618	LB	
RM-00104	REBAR #8 BLACK-GR 60	617	LB	
MK-FA5000SC30	MIX DESIGN - FLY-ASH 5000 SELF COMPACTIN	13.35	CY	

P2 Rebar Schedule		
MK	QTY	LENGTH
501 #5	31	7' - 5.5"
502 #5	12	30' - 1"
801 #8	31	7' - 5.5"

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Rev.	Date	DESCRIPTION	By
		REVISIONS	

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 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:



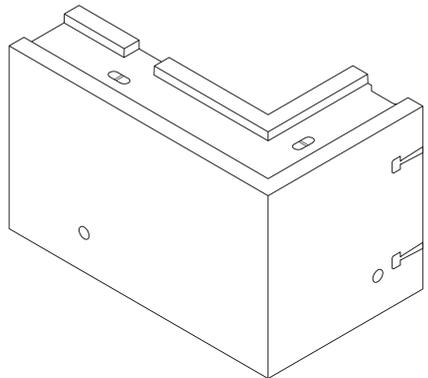
STATE AGENCY	
Drawn By A. KOSTENKO	Date 04/04/2016
Reviewed By	Date
Approved By	Date

VTAOT PROJ. NO.: BRF 0151(21)	
MILLER CONSTRUCTION, INC. ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD) WOODSTOCK, VT	
SHOP DRAWING - P2	
Drawing No.	R-S22624-P2
Quantity: 1	Project No:
SHEET P2 OF	

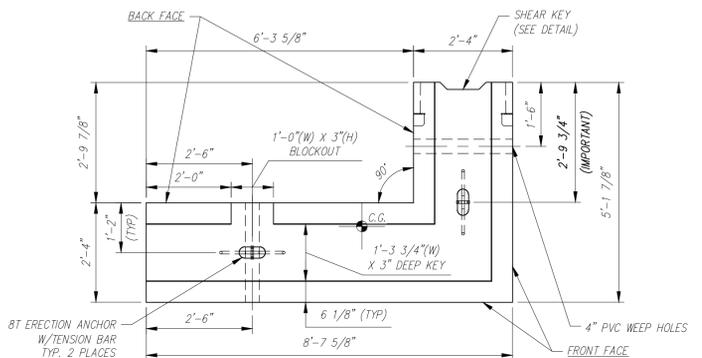
PIECE QUANTITY: 2 EACH  
 WEIGHT: 27.04 TONS

REV 0

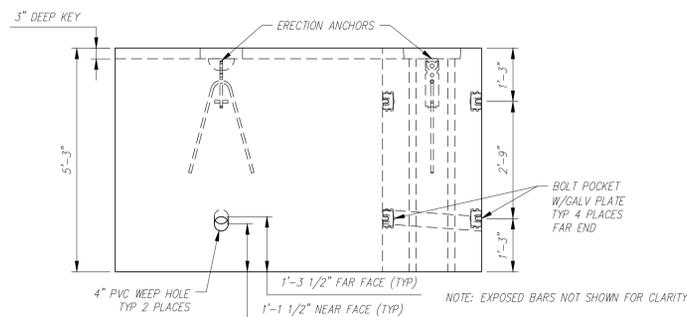
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



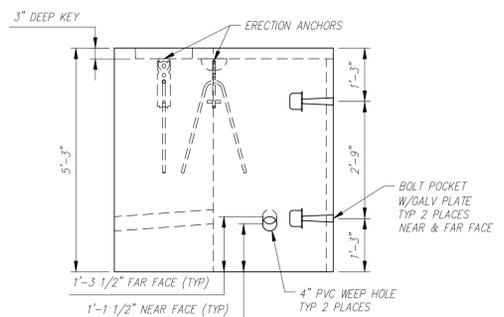
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



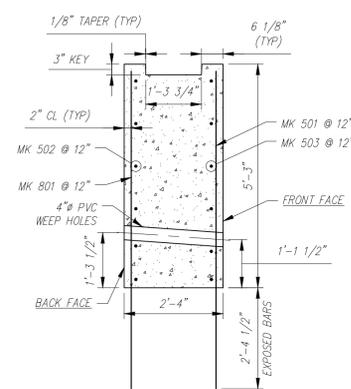
PLAN VIEW  
 SCALE: 1/2" = 1'-0"



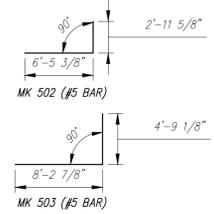
FRONT FACE ELEVATION  
 SCALE: 1/2" = 1'-0"



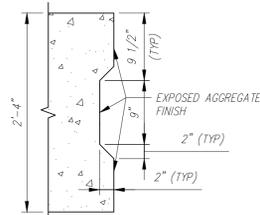
RIGHT SIDE ELEVATION  
 SCALE: 1/2" = 1'-0"



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



BENDING SCHEDULE  
 SCALE: 1/8" = 1'-0"



TYP. SHEAR KEY DETAIL (PLAN)  
 SCALE: 1" = 1'-0"

P3 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	5	FT	
EM-00122	8TON ERECTION ANCHOR GALV QL049G	2	EA	W/TENSION BAR
EM-00125	BOLT POCKET PLATES (GALVANIZED)	4	EA	
RM-00015	REBAR #5 BLACK-GR 60 40'	257	LB	
RM-00104	REBAR #8 BLACK GR 60	219	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	6.01	CY	

P3 Rebar Schedule		
MK	QTY	LENGTH
501 #5	15	7' ± 5.5"
502 #5	6	9' ± 5"
503 #5	6	13' ± 0"
801 #8	11	7' ± 5.5"

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Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:  
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 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
 WEIGHT: 10.15 TONS

VTAOT PROJ. NO.: BRF 0151(21)

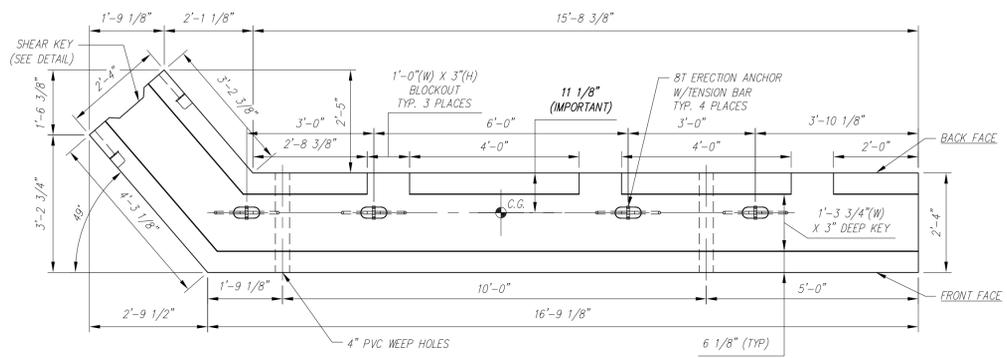
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

SHOP DRAWING - P3  
 Drawing No. R-S22624-P3

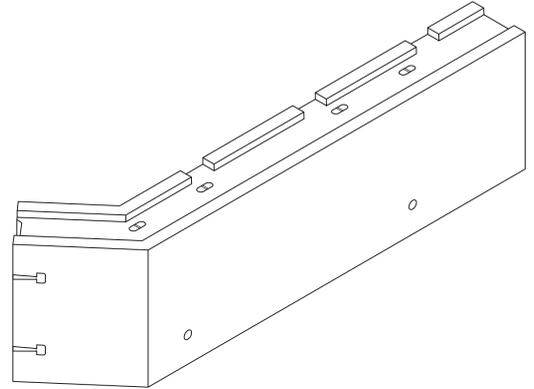
Quantity: 1 Project No: SHEET P3 OF



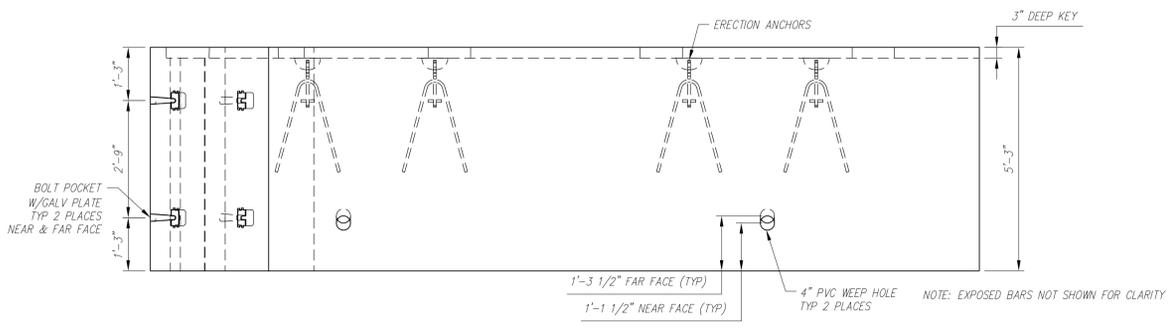
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, BLACK (UNCOATED).  
 2. COVER TO REINFORCING: SEE DETAILS



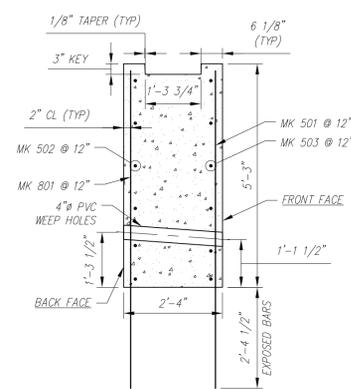
PLAN VIEW  
 SCALE: 1/2" = 1'-0"



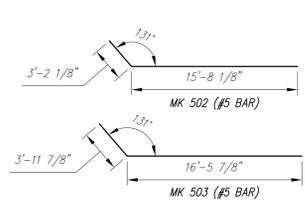
NOTE: EXPOSED BARS NOT SHOWN FOR CLARITY



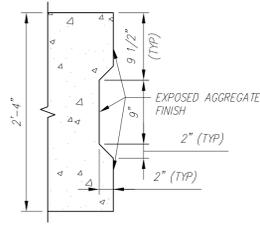
FRONT FACE ELEVATION  
 SCALE: 1/2" = 1'-0"



TYP. REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"



BENDING SCHEDULE  
 SCALE: 1/8" = 1'-0"



TYP. SHEAR KEY DETAIL (PLAN)  
 SCALE: 1" = 1'-0"

P5 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	5	FT	
EM-00122	8TON ERECTION ANCHOR GALV QL049G	4	EA	W/TENSION BAR
EM-00125	BOLT POCKET PLATES (GALVANIZED)	4	EA	
RM-00015	REBAR #5 BLACK-GR 60 40'	417	LB	
RM-00104	REBAR #8 BLACK-GR 60	398	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	8.75	CY	

P5 Rebar Schedule			
MK	QTY	LENGTH	
501 #5	22	7' x 5.5"	
502 #5	6	18' x 10"	
503 #5	6	20' x 5.5"	
801 #8	20	7' x 5.5"	

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Rev.	Date	DESCRIPTION	By	
		REVISIONS		

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 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH 03051  
 Phone: 603-889-4163  
 Fax: 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
 WEIGHT: 17.72 TONS

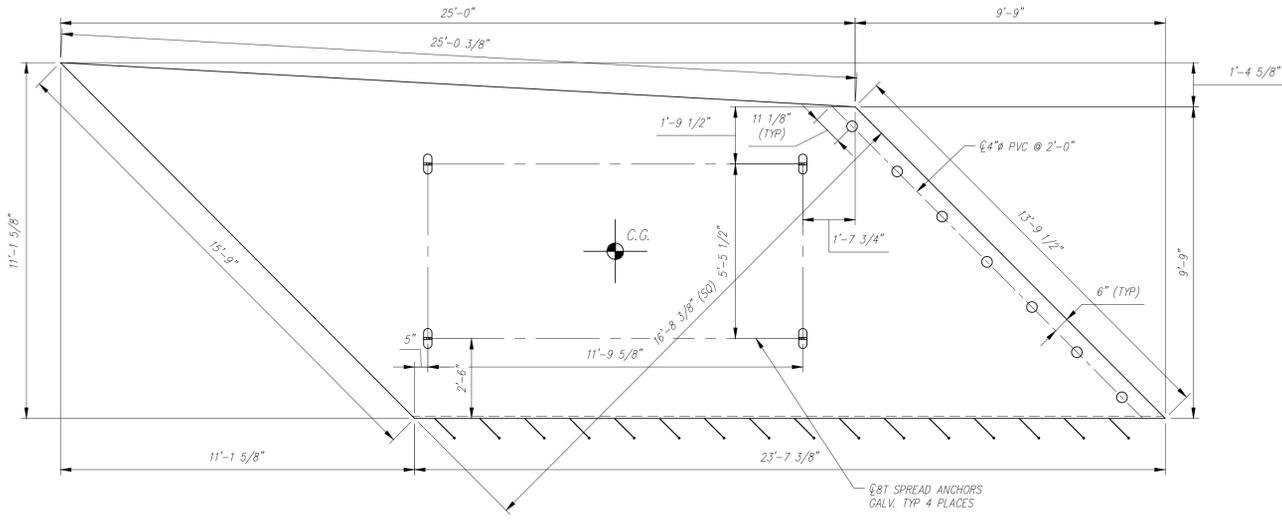
VTAOT PROJ. NO.: BRF 0151(21)

MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

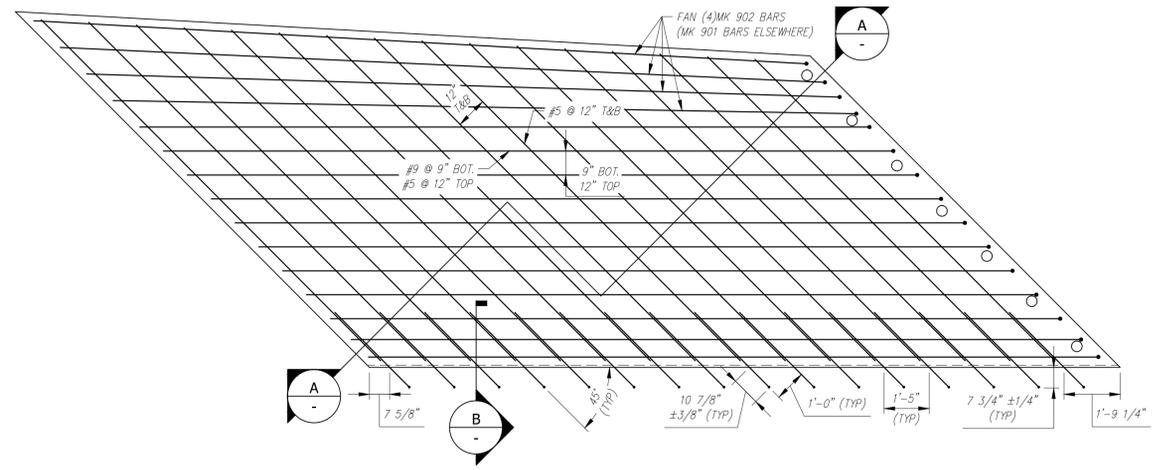
SHOP DRAWING - P5  
 Drawing No. R-S22624-P5

Quantity: 1 Project No: SHEET P5 OF

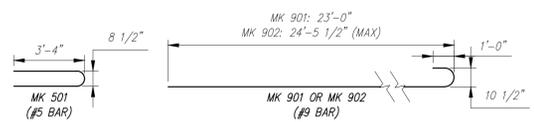
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, EPOXY COATED.  
 2. COVER TO REINFORCING: SEE DETAILS.



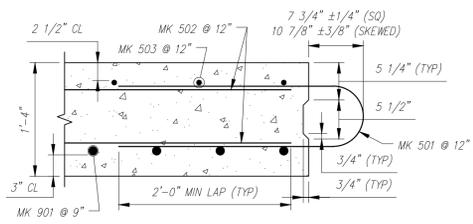
PLAN VIEW  
 SCALE: 3/8" = 1'-0"



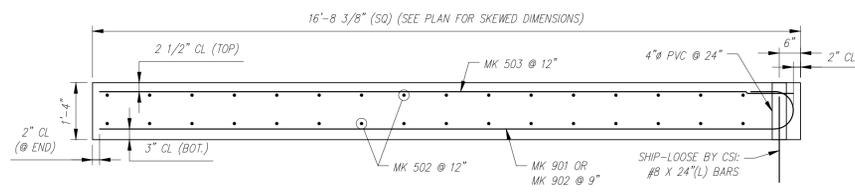
REINFORCING PLAN  
 SCALE: 3/8" = 1'-0"



BENDING SCHEDULE  
 SCALE: 1/4" = 1'-0"



SECTION  
 SCALE: 1" = 1'-0"



TYPICAL REINFORCING SECTION  
 SCALE: 1/2" = 1'-0"

AS1 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	9.5	FT	
EM-00039	SPREAD ANCHORS 8T GALV	4	EA	
RM-00016	REBAR #5 EPOXY-GR 60 40'	906	LB	
RM-00090	REBAR #9 EPOXY-GR 60	1286	LB	
MX-FA5000SC30	MX DESIGN - FLY ASH 5000 SELF COMPACTIN	12.18	CY	

ALL REBAR TO BE EPOXY COATED			
AS1 Rebar Schedule			
MK	QTY	LENGTH	
501 #5	16	7' 4"	
502 #5	32	15' 1"	MAX
503 #5	11	24' 5.5"	MAX
901 #9	11	24' 10"	
902 #9	4	26' 3.5"	MAX

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Rev.	Date	DESCRIPTION	By	
		REVISIONS		

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 Project No:  
 Drawings: PROJECT PLANS  
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 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

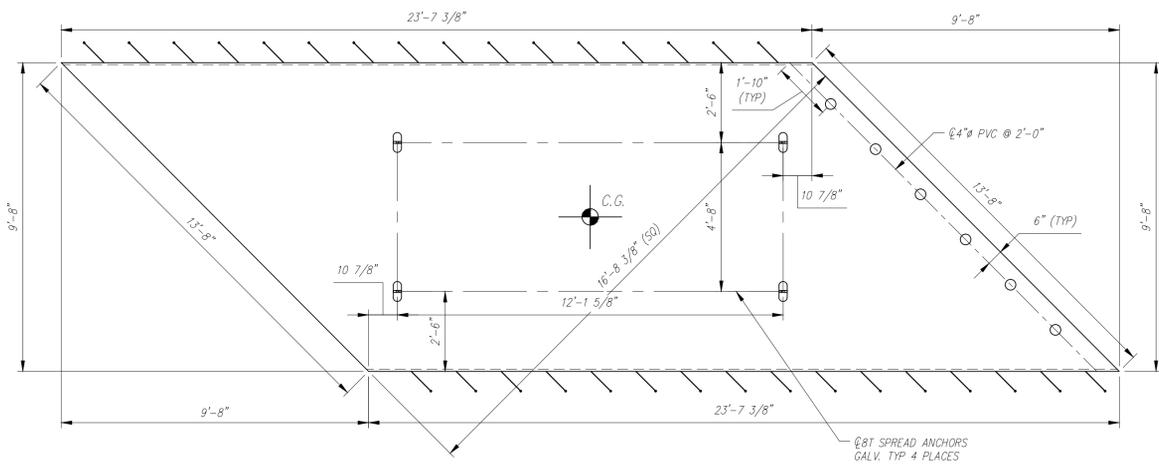
PIECE QUANTITY: 1 EACH  
 WEIGHT: 24.67 TONS

VTAOT PROJ. NO.: BRF 0151(21)

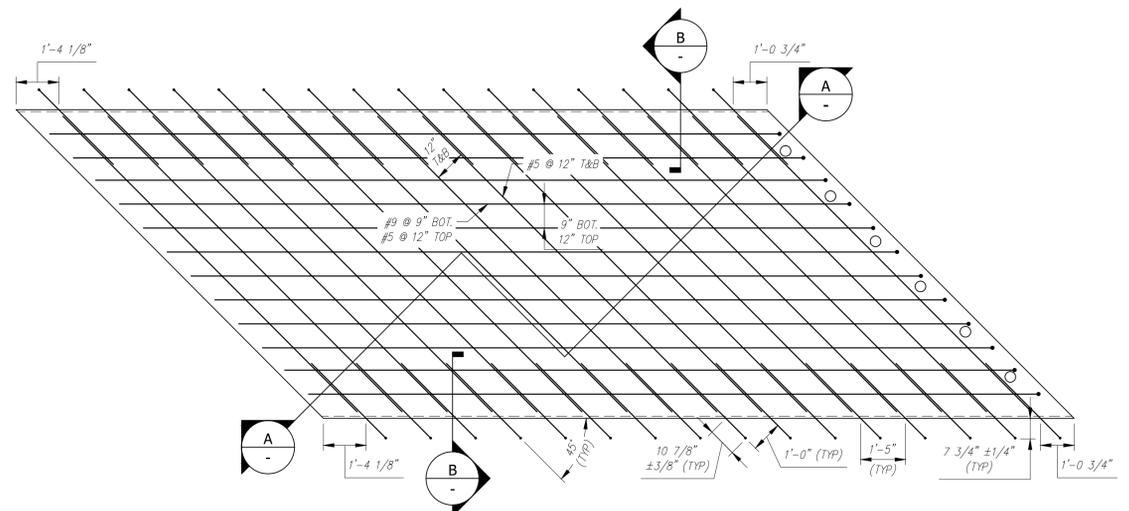
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

SHOP DRAWING - AS1  
 Drawing No. R-S22624-AS1  
 Quantity: Project No: SHEET AS1 OF 0

NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, EPOXY COATED.  
 2. COVER TO REINFORCING: SEE DETAILS.



PLAN VIEW  
 SCALE: 3/8" = 1'-0"



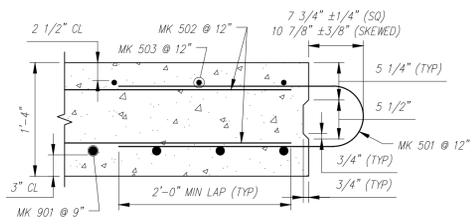
REINFORCING PLAN  
 SCALE: 3/8" = 1'-0"



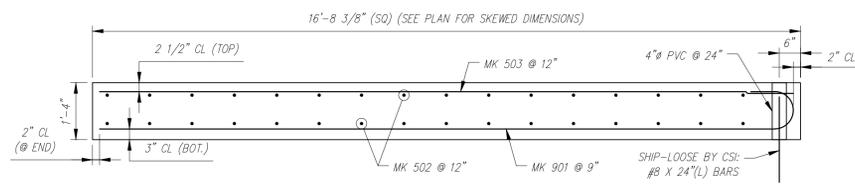
BENDING SCHEDULE  
 SCALE: 1/4" = 1'-0"

AS2 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	8	FT	
EM-00039	SPREAD ANCHORS 8T GALV	4	EA	
RM-00016	REBAR #5 EPOXY-GR 60 40'	921	LB	
RM-00090	REBAR #9 EPOXY-GR 60	1013	LB	
MX-FA5000SC30	MX DESIGN - FLY ASH 5000 SELF COMPACTIN	11.27	CY	

ALL REBAR TO BE EPOXY COATED			
AS2 Rebar Schedule			
MK	QTY	LENGTH	
501 #5	32	7' - 4"	
502 #5	32	13' - 1"	
503 #5	10	23' - 0"	
901 #9	12	24' - 10"	



SECTION B  
 SCALE: 1" = 1'-0"



TYPICAL REINFORCING SECTION A-A  
 SCALE: 1/2" = 1'-0"

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 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By: A. KOSTENKO  
 Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
 WEIGHT: 22.83 TONS

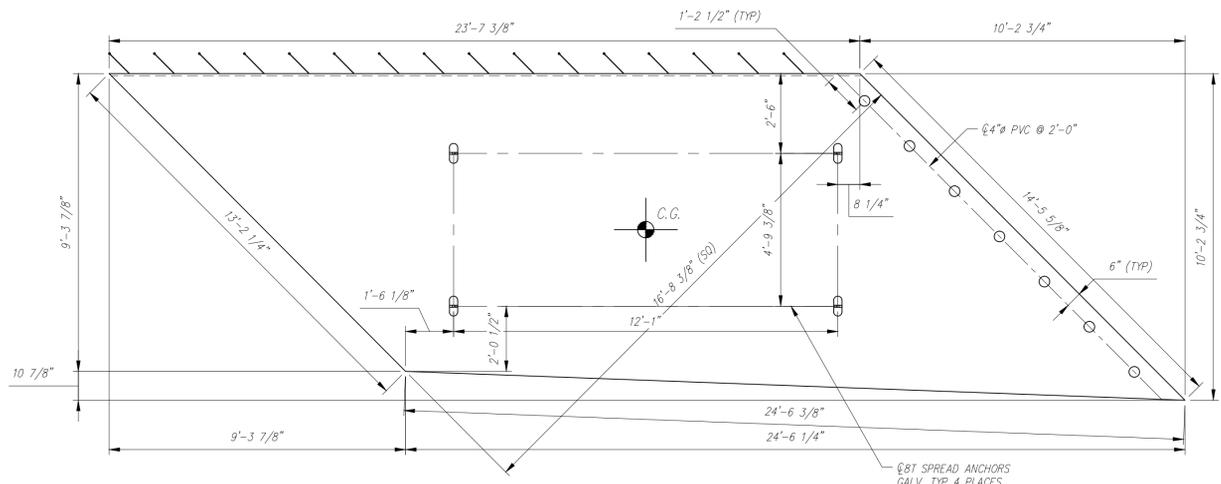
VTAOT PROJ. NO.: BRF 0151(21)

MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

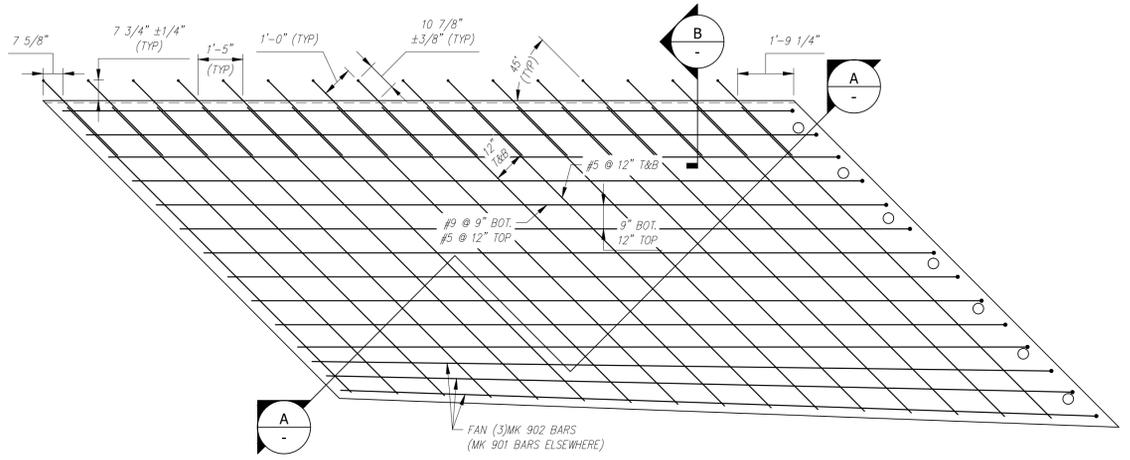
SHOP DRAWING - AS2  
 Drawing No. R-S22624-AS2

Quantity: Project No: SHEET AS2 OF 0

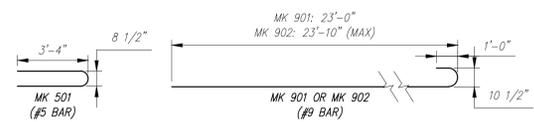
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, EPOXY COATED.  
 2. COVER TO REINFORCING: SEE DETAILS



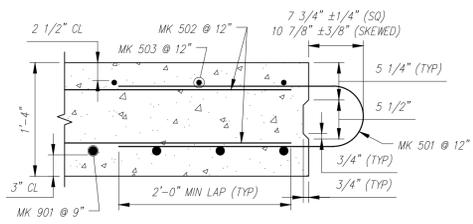
PLAN VIEW  
 SCALE: 3/8" = 1'-0"



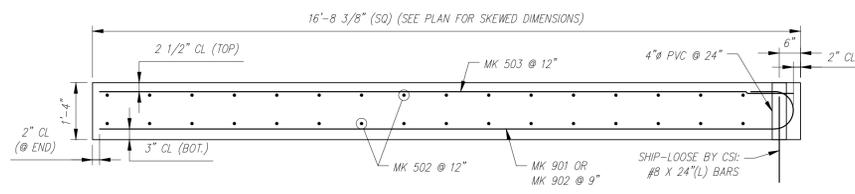
REINFORCING PLAN  
 SCALE: 3/8" = 1'-0"



BENDING SCHEDULE  
 SCALE: 1/4" = 1'-0"



SECTION B  
 SCALE: 1" = 1'-0"



TYPICAL REINFORCING SECTION A-A  
 SCALE: 1/2" = 1'-0"

AS3 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	9.5	FT	
EM-00039	SPREAD ANCHORS 8T GALV	4	EA	
RM-00016	REBAR #5 EPOXY-GR 60 40'	857	LB	
RM-00090	REBAR #9 EPOXY-GR 60	1191	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	11.40	CY	

ALL REBAR TO BE EPOXY COATED			
AS3 Rebar Schedule			
MK	QTY	LENGTH	
501 #5	16	7' - 4"	
502 #5	32	13' - 10"	MAX
503 #5	11	23' - 10"	MAX
901 #9	11	24' - 10"	
902 #9	3	25' - 8"	MAX

Contractor is to verify that all information shown on drawings has been thoroughly checked, complies with the contract documents and is adequate to meet the field conditions. Some dimensions and details may differ slightly from contract drawings to accommodate the manufacturing or design process. Approval of this drawing indicates that any deviation from the contract documents has been reviewed and found to be acceptable. Production will not commence until receipt of signed, approved shop drawings.

This drawing contains information proprietary to CONCRETE SYSTEMS, INC. This drawing is disclosed with the understanding that it will be retained in confidence and its use limited solely to the purpose for which it is disclosed. It is understood that no reproduction of this drawing is authorized without permission from CONCRETE SYSTEMS, INC. and that it will be returned to CONCRETE SYSTEMS, INC. upon request.

Rev.	Date	DESCRIPTION	By
10			
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This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Approved By:  
 Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
 WEIGHT: 23.09 TONS

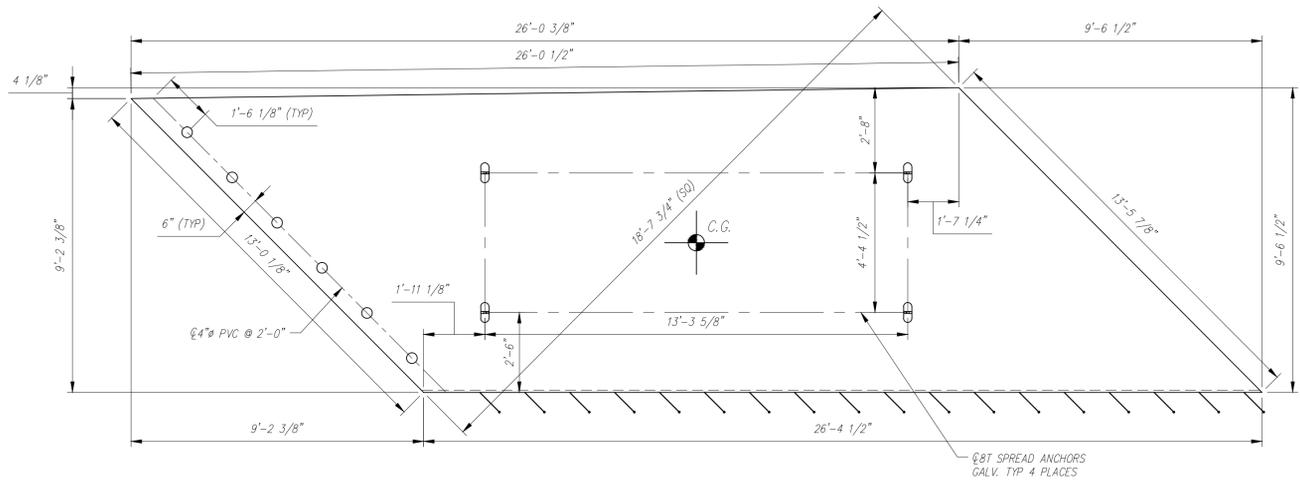
VTAOT PROJ. NO.: BRF 0151(21)

MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

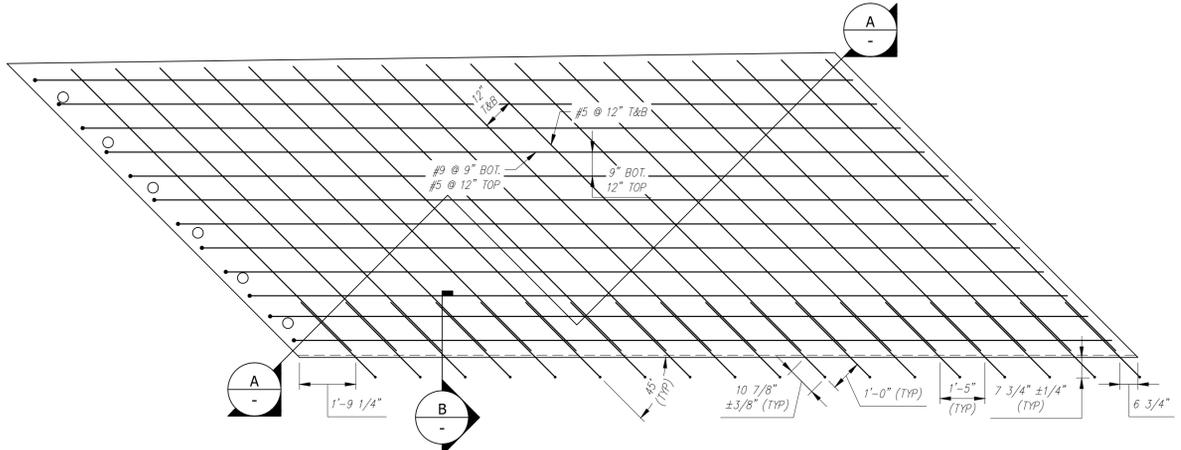
SHOP DRAWING - AS3  
 R-S22624-AS3

Quantity: Project No: SHEET AS3 OF

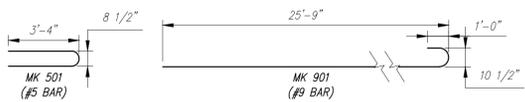
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, EPOXY COATED.  
 2. COVER TO REINFORCING: SEE DETAILS.



PLAN VIEW  
 SCALE: 3/8" = 1'-0"

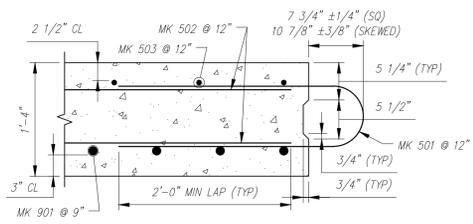


REINFORCING PLAN  
 SCALE: 3/8" = 1'-0"

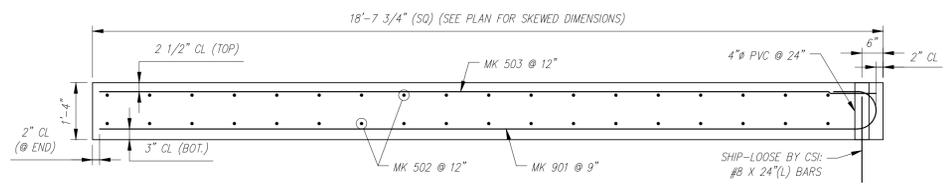


BENDING SCHEDULE  
 SCALE: 1/4" = 1'-0"

AS4 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	8	EA	
EM-00039	SPREAD ANCHORS 8T GALV	4	EA	
RM-00016	REBAR #5 EPOXY-GR 60 40'	891	LB	
RM-00090	REBAR #9 EPOXY-GR 60	1125	LB	
MX-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	12.20	CY	



SECTION B  
 SCALE: 1" = 1'-0"



TYPICAL REINFORCING SECTION A-A  
 SCALE: 1/2" = 1'-0"

ALL REBAR TO BE EPOXY COATED			
AS4 Rebar Schedule			
MK	#	QTY	LENGTH
501	#5	18	7' - 4"
502	#5	36	12' - 11" MAX
503	#5	10	25' - 9"
901	#9	12	27' - 7"

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1	04/15/2016	MK 901 BAR LENGTH	AK	
Rev.	Date	DESCRIPTION	By	
		REVISIONS		

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 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By:  
 Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
 WEIGHT: 24.71 TONS

VTAOT PROJ. NO.: BRF 0151(21)

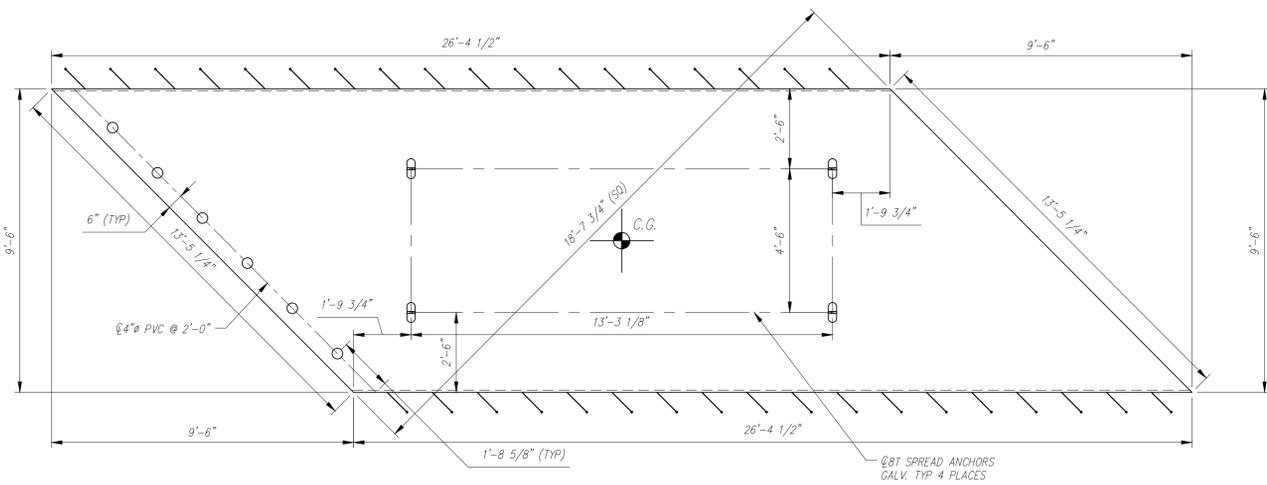
MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

SHOP DRAWING - AS4  
 R-S22624-AS4

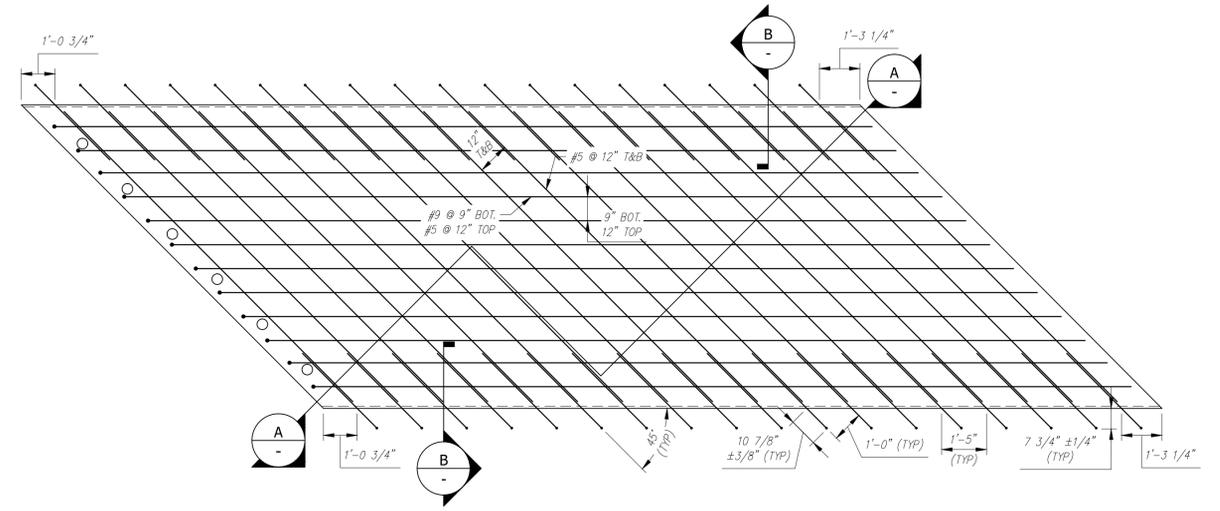
Quantity: Project No: SHEET AS4 OF 1

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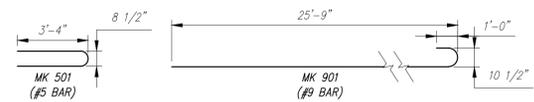
NOTES:  
 1. ALL REINFORCING TO BE LEVEL 1, EPOXY COATED.  
 2. COVER TO REINFORCING: SEE DETAILS.



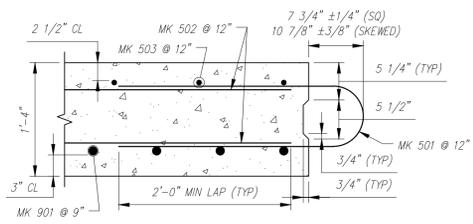
PLAN VIEW  
 SCALE: 3/8" = 1'-0"



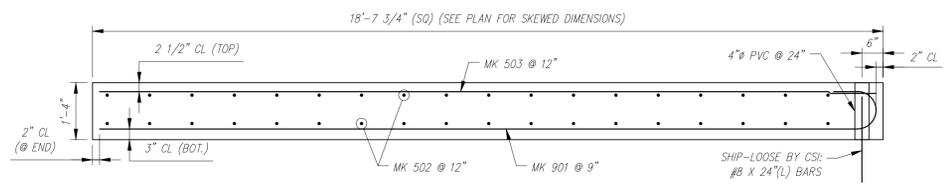
REINFORCING PLAN  
 SCALE: 3/8" = 1'-0"



BENDING SCHEDULE  
 SCALE: 1/4" = 1'-0"



SECTION B  
 SCALE: 1" = 1'-0"



TYPICAL REINFORCING SECTION A-A  
 SCALE: 1/2" = 1'-0"

AS5 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	8	FT	
EM-00039	SPREAD ANCHORS 8T GALV	4	EA	
RM-00016	REBAR #5 EPOXY-GR 60 40'	1029	LB	
RM-00090	REBAR #9 EPOXY-GR 60	1125	LB	
MK-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTIN	12.37	CY	

ALL REBAR TO BE EPOXY COATED			
AS5 Rebar Schedule			
MK	QTY	LENGTH	
501 #5	36	7' - 4"	
502 #5	36	12' - 11"	
503 #5	10	25' - 9"	
901 #9	12	27' - 7"	

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1	04/15/2016	MK 901 BAR LENGTH	AK	
Rev.	Date	DESCRIPTION	By	
		REVISIONS		

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: STANTEC CONSULTING SERVICES, INC.  
 Project No:  
 Drawings: PROJECT PLANS  
 Specifications:  
 Other Sources:

Concrete Systems Inc.  
 9 Commercial St., Hudson, NH, 03051  
 Phone 603-889-4163  
 Fax 603-889-2417

STATE AGENCY  
 VTrans  
 Drawn By: A. KOSTENKO  
 Reviewed By: [Signature]  
 Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
 WEIGHT: 25.06 TONS

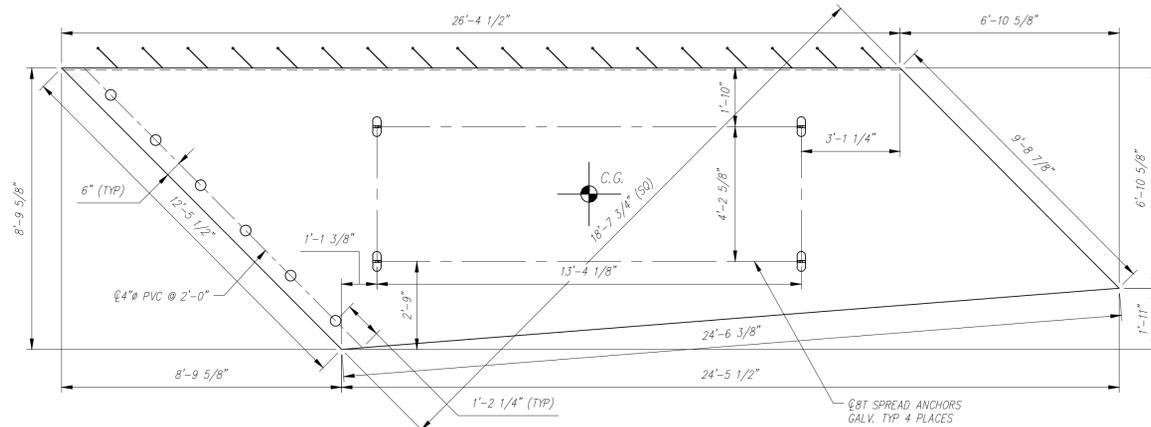
VTAOT PROJ. NO.: BRF 0151(21)

MILLER CONSTRUCTION, INC.  
 ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
 WOODSTOCK, VT

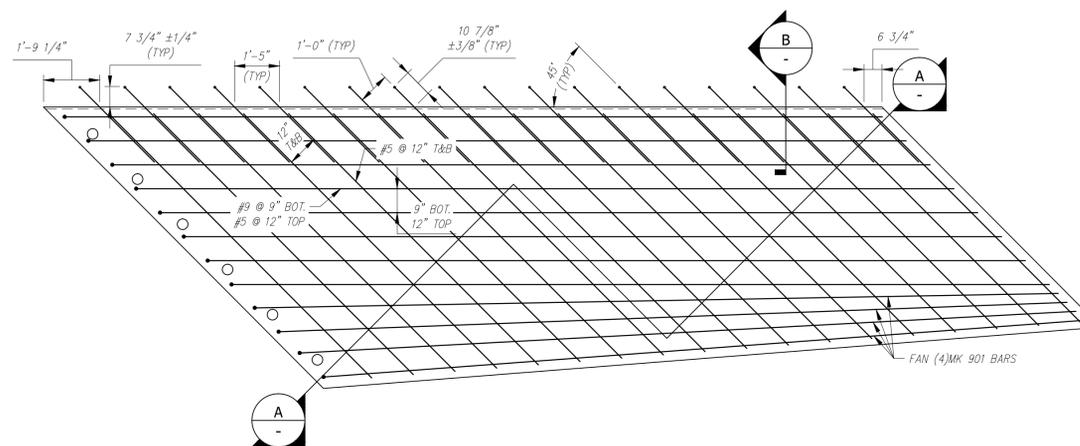
SHOP DRAWING - AS5  
 Drawing No. R-S22624-AS5

Quantity: Project No: SHEET AS5 OF 1

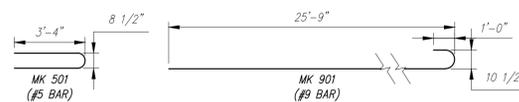
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**PLAN VIEW**  
SCALE: 3/8" = 1'-0"



**REINFORCING PLAN**  
SCALE: 3/8" = 1'-0"

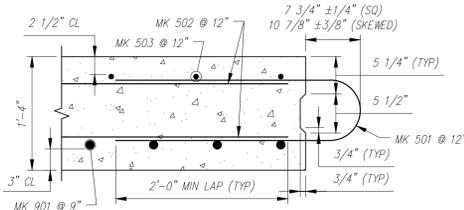


**BENDING SCHEDULE**  
SCALE: 1/4" = 1'-0"

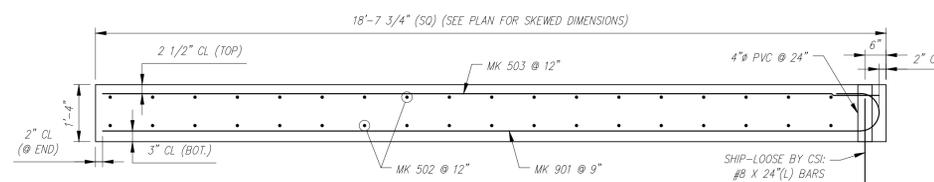
AS6 - BILL OF MATERIALS / EMBEDS				
CSI ID#	DESCRIPTION	QTY	UM	COMMENTS
EM-00034	4" FOAM CORE PVC	8	FT	
EM-00039	SPREAD ANCHORS 8T GALV	4	EA	
RM-00016	REBAR #5 EPOXY-GR 60 40'	821	LB	
RM-00090	REBAR #9 EPOXY-GR 60	1125	LB	
MK-FA5000SC30	MIX DESIGN - FLY ASH 5000 SELF COMPACTING	10.22	CY	

ALL REBAR TO BE EPOXY COATED

MK	QTY	LENGTH
501 #5	18	7' - 4" MAX
502 #5	36	11' - 9" MAX
503 #5	9	25' - 9" MAX
901 #9	12	27' - 7" MAX



**B SECTION**  
SCALE: 1" = 1'-0"



**A-A TYPICAL REINFORCING SECTION**  
SCALE: 1/2" = 1'-0"

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Rev.	Date	DESCRIPTION	By
10			
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1	04/15/2016	MK 901 BAR LENGTH	AK
Rev.	Date	DESCRIPTION	By
REVISIONS			

This drawing is based upon information provided from the following documents and/or sources:

Engineer: STANTEC CONSULTING SERVICES, INC.  
Project No:  
Drawings: PROJECT PLANS

Specifications:  
Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH, 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY  
**VTrans**  
Drawing By: A. KOSTENKO  
Reviewed By: [Signature]  
Approved By: [Signature]  
Date: 04/04/2016

PIECE QUANTITY: 1 EACH  
WEIGHT: 20.70 TONS

VTAOT PROJ. NO.: BRF 0151(21)  
MILLER CONSTRUCTION, INC.  
ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD)  
WOODSTOCK, VT  
SHOP DRAWING - AS6  
Drawing No. R-S22624-AS6  
Quantity: Project No: SHEET AS6 OF 1