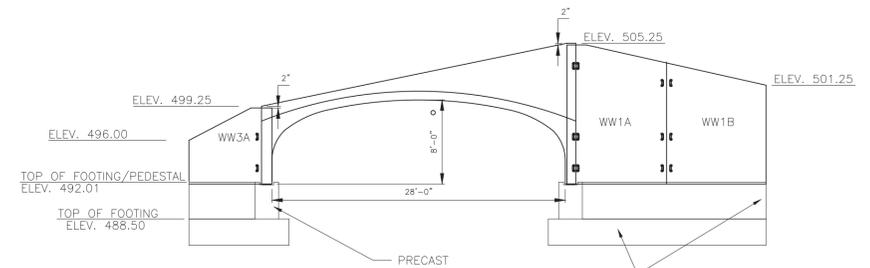
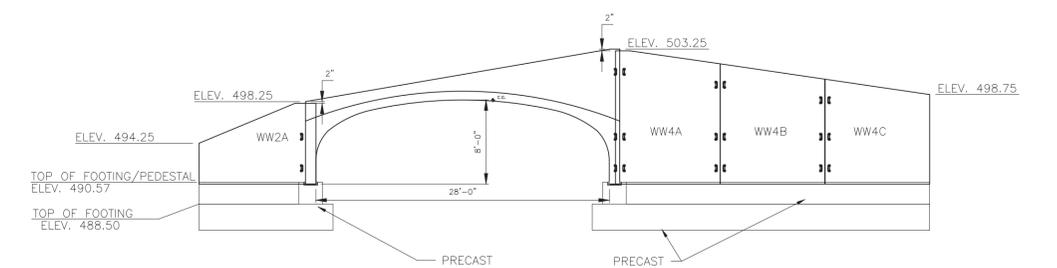


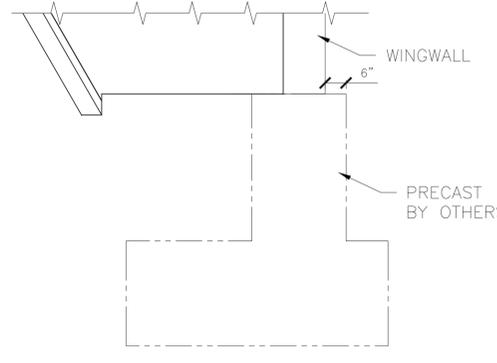
1 ARCH CULVERT JOINT CONNECTION DETAIL
S1.0 1" = 1'-0"



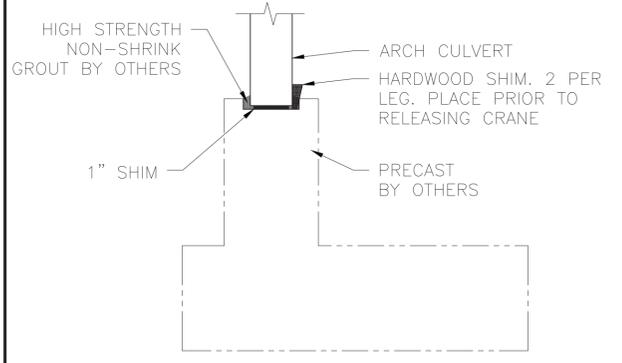
2 CULVERT LAYOUT ELEVATION INLET VIEW
S1.0 1/8" = 1'-0"



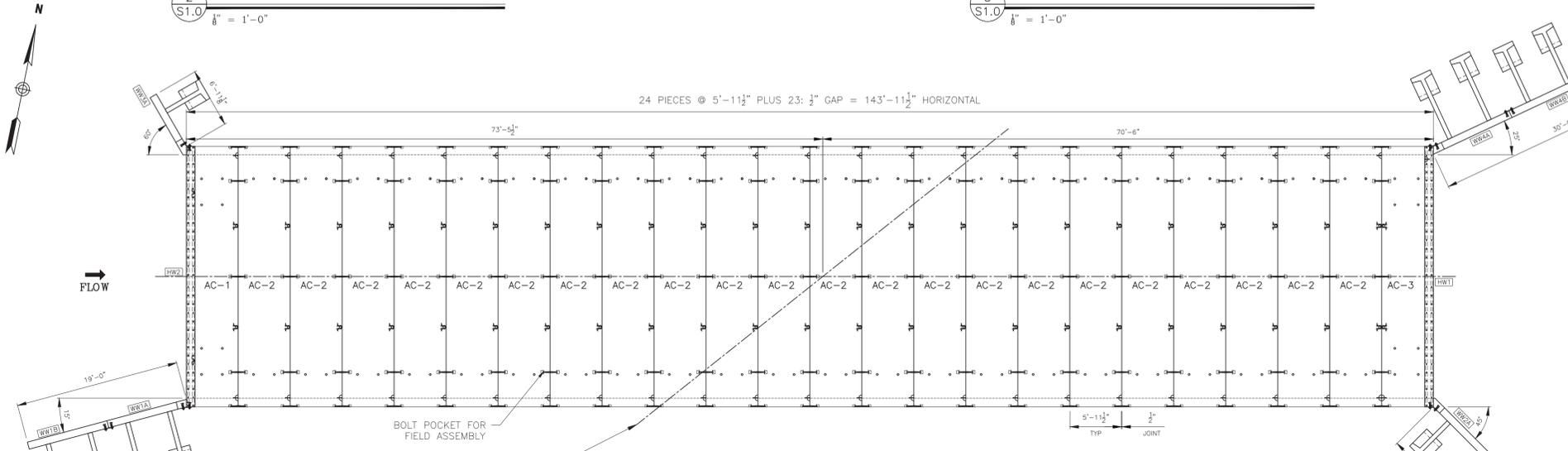
3 CULVERT LAYOUT ELEVATION OUTLET VIEW
S1.0 1/8" = 1'-0"



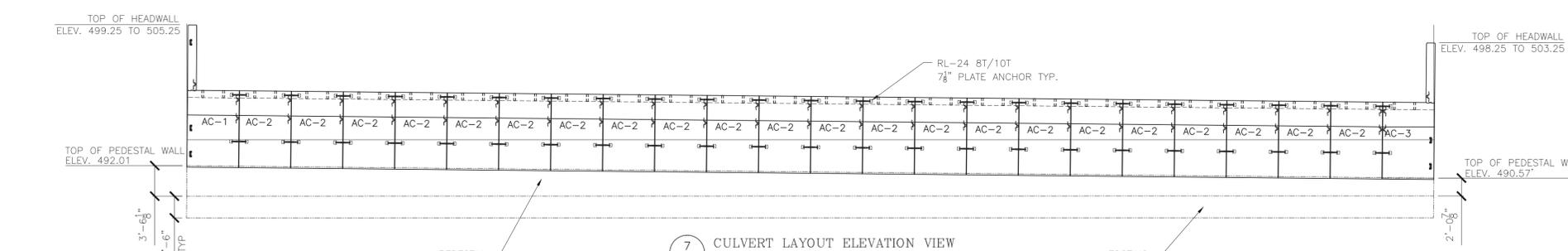
4 WING WALL FOOTING SECTION
S1.0 3/16" = 1'-0"



6 CULVERT FOOTING SECTION
S1.0 3/16" = 1'-0"



5 CULVERT LAYOUT PLAN VIEW
S1.0 3/16" = 1'-0"



7 CULVERT LAYOUT ELEVATION VIEW
S1.0 3/16" = 1'-0"

GENERAL NOTES:

- THE PLANS ARE INTENDED TO BE DRAWN TO SCALE. HOWEVER, IF A CRITICAL DIMENSION IS NOT PROVIDED, MICHE CORPORATION SHOULD BE CONTACTED FOR VERIFICATION.
- IF ANY OF THE WORK TO BE DONE AS SHOWN ON THE DRAWINGS DOES NOT CORRESPOND WITH THE EXISTING FIELD CONDITIONS, CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- FIELD-VERIFY ALL ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES, CONSULT THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- MAINTAIN MINIMUM 60 DEGREE SLING ANGLE WHEN HANDLING PRECAST COMPONENTS.
- PRECAST COMPONENTS SHALL REACH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI PRIOR TO STRIPPING, AND THE MINIMUM DESIGN COMPRESSIVE STRENGTH PRIOR TO SHIPPING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- HORIZONTAL JOINTS AND VOIDS SHALL BE FILLED WITH NON-SHRINK GROUT.
- SHOP DRAWINGS WERE DEVELOPED USING THE FOLLOWING RESOURCES FOR THE CONTRACT:
 - TOWN OF DUXBURY, DUXBURY, VERMONT, VT100 ROAD CULVERT PROJECT PLANS.
- IF THERE IS ADDITIONAL INFORMATION PERTINENT TO THE FABRICATION AND INSTALLATION OF THESE UNITS THAT IS NOT CONTAINED WITHIN THE RESOURCES LISTED ABOVE IT SHALL BE BROUGHT TO THE ATTENTION OF MICHE CORPORATION. FAILURE TO MAKE SUCH ADDITIONAL INFORMATION AVAILABLE SHALL RELIEVE MICHE CORPORATION OF ALL LIABILITIES ARISING FROM ERRORS OR OMISSIONS RELATED TO THE OMITTED INFORMATION.
- ALL VOIDS SHALL BE FILLED WITH NON SHRINK GROUT.

Design of lifting attachments in accordance with Subsections 540.04(h) and 105 is outstanding at this time. However, fabrication in accordance with these plans may proceed at the Fabricator's option with future submittal of the lifting device calculations.

ARCH CULVERT NOTES:

- ARCH CULVERT SECTIONS ARE DESIGNED IN ACCORDANCE WITH:
 - AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS", 6TH EDITION.
 - STANDARD SPECIFICATION AND GENERAL SPECIAL PROVISIONS SECTION 540.
- THE FOLLOWING CRITERIA WAS USED FOR DESIGN:
 - LIVE LOAD: HL-93
 - EARTH COVER: 8.6 FEET
 - BACKFILL SOIL UNIT WEIGHT: 140 PCF
 - BACKFILL SOIL FRICTION ANGLE: 30 DEGREES
 - CONCRETE STRENGTH: 6,500 PSI
 - STEEL YIELD STRENGTH: 60,000 PSI
- ARCH CULVERT AND HEADWALL CONCRETE SHALL BE SELF-CONSOLIDATING CONFORMING TO SECTION 540 WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI. AGGREGATE SHALL CONFORM TO SECTION 540 WITH A MAXIMUM DIAMETER OF 3/4". CEMENT SHALL CONFORM TO ASTM C150. MICHE MIX 6535CAS
- REINFORCING SHALL BE GRADE 60, EPOXY COATED, CONFORMING TO ASTM A-615. ALL BARS SHALL BE BENT COLD.
- ALL EXPOSED EDGES EXCEPT WHERE NOTED SHALL BE CHAMFERED 3/4".
- SUBGRADE PREPARATION SHALL CONFORM TO PROJECT PLANS.
- UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, BACKFILL SHALL CONFORM TO VTRANS SECTION 708.04 GRANULAR BACKFILL FOR STRUCTURES. BACKFILL SHALL EXTEND BEYOND THE HORIZONTAL LIMITS OF THE STRUCTURE AS DETAILED IN THE CONTRACT DOCUMENTS. PLACEMENT SHALL CONFORM TO VTRANS SECTION 204.08.
- EXPOSED SURFACES SHOULD BE COATED ONSITE WITH WATER REPELLENT, SILANE (SUPPLIED BY OTHERS).
- EACH SECTION SHALL BE PROVIDED WITH BOLT POCKETS FOR ATTACHMENT TO ADJACENT SECTIONS. 7/8" DIA. GALV. THREADED ROD, WASHERS AND NUTS SHALL BE PROVIDED FOR ASSEMBLY IN THE FIELD. CLOSED-CELL NEOPRENE JOINT SEALANT SHALL BE USED IN ALL JOINTS UNLESS NOTED OTHERWISE.
- 2FT WIDE ROYSTON JOINT WRAP WITH ADHESIVE PROVIDED BY MICHE CORP., INSTALLED BY OTHERS, CENTER ON JOINT AFTER HORIZONTAL GROUTING. BARRIER MEMBRANE PROVIDED AND INSTALLED BY OTHERS OVER TOP OF STRUCTURE, AND DOWN SIDES TO 6" BELOW HORIZONTAL JOINT.

TYLIN INTERNATIONAL
The stamped documents are hereby:
Approved as noted
Reviewed and resubmit
See transmittal for additional information as applicable.

This review is for general conformance with design concept only. Any deviation from the plans or specifications not clearly noted by the Contractor has not been reviewed. Review by the Engineer shall not relieve the Contractor of the contractual responsibility for any errors or deviation from the contract requirements.

Josh Olund 09/13/2016
Reviewer Date

Vermont Agency of Transportation
RECEIVED
CK'D BY TYLIN OK'D BY KMH
September 14, 2016
RESUBMIT No Approved AsNoted
BY Kristin Higgins DATE 09/14/2016

WING WALL NOTES:

- SECTIONS ARE DESIGNED IN ACCORDANCE WITH:
 - AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS", 6TH EDITION
 - STANDARD SPECIFICATION AND GENERAL SPECIAL PROVISIONS SECTION 540.
- THE FOLLOWING SOIL PROPERTIES WERE USED IN THE DESIGN:

SOIL WEIGHT [PCF]	FRICTION ANGLE [DEG]
140	32
140	32

 - RETAINED SOIL
 - FOUNDATION SOIL
 - LIVE LOAD SURCHARGE = 2'
 - BACKSLOPE ANGLE: 1:8:1
 - ALLOWABLE BEARING RESISTANCE = 6,000 PSF
- CONCRETE SHALL BE SELF-CONSOLIDATING CONFORMING TO SECTION 540 WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. AGGREGATE SHALL CONFORM TO SECTION 540 WITH A MAXIMUM DIAMETER OF 3/4". CEMENT SHALL CONFORM TO ASTM C150. MICHE MIX 5035CAS.
- REINFORCING SHALL BE GRADE 60, EPOXY COATED, CONFORMING TO ASTM A-774. ALL BARS SHALL BE BENT COLD.
- ALL EXPOSED EDGES EXCEPT WHERE NOTED SHALL BE CHAMFERED 3/4".
- UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, BACKFILL SHALL CONFORM TO VTRANS SECTION 708.04 GRANULAR BACKFILL FOR STRUCTURES. BACKFILL SHALL EXTEND BEYOND THE HORIZONTAL LIMITS OF THE STRUCTURE AS DETAILED IN THE CONTRACT DOCUMENTS. PLACEMENT SHALL CONFORM TO VTRANS SECTION 204.08.

FOOTING NOTES:
BY OTHERS

LIST OF SHEETS:
S1.0 CULVERT LAYOUT-PLAN AND ELEVATION
S2.0 CULVERT SECTION AND ELEVATION
S3.0 CULVERT SECTIONS AND ELEVATIONS
S4.0 HEAD WALL DETAILS
S5.0 WINGWALL DETAILS
S6.0 WINGWALL DETAILS
S7.0 ANCHOR DETAILS
S8.0 LIFTING DETAILS

PRODUCTION CONTROL PROCEDURES

- CYLINDER SAMPLING AND CURING:
 - A. A MINIMUM OF EIGHT (8) CYLINDERS PER LOT WILL BE MADE IN ACCORDANCE WITH ASTM C31. CYLINDERS WILL BE TESTED IN ACCORDANCE WITH ASTM C39.
 - B. UNIT WEIGHT (ASTM C138), AIR CONTENT (ASTM C231), SPREAD PER SCC GUIDELINES, AND TEMPERATURE TESTS WILL BE TAKEN INITIALLY FOR EACH BATCH. NOT TO EXCEED NINE (9) CUBIC YARDS. THE FREQUENCY OF SOME TESTS MAY BE REDUCED WHEN THE VTRANS REPRESENTATIVE DETERMINES THAT THE PRECASTER IS CONSISTENT IN HIS BATCHING OPERATION. THESE TESTS WILL BE TAKEN PRIOR TO PLACING CONCRETE IN FORM.
- NOTE: 1 AIR TEST PER BATCH (OR DELIVERY TRUCK) IS REQUIRED, AND SHALL NOT BE REDUCED
- ALL CAST CYLINDERS WILL BE CURED IN THE SAME MANNER AS THE PIECES THEY REPRESENT.
- CYLINDER BREAKS:
 - A. FOR EARLY STRENGTH VERIFICATION, CYLINDERS MAY BE BROKEN AT ANY TIME UP TO 28 DAYS AFTER CASTING. IF THE AVERAGE STRENGTH OF TWO (2) CYLINDERS MEETS OR EXCEEDS THE REQUIRED 28 DAY STRENGTH (WITH EACH CYLINDER HAVING A MINIMUM OF 95% OF THE REQUIRED 28 DAY STRENGTH), THE LOT SHALL BE ACCEPTED FOR STRENGTH.
- QUALITY CONTROL TEST AND EQUIPMENT:
 - CYLINDER TESTER: FORNEY 500 SERIES WITH DR-2 DIGITAL READOUT CALIBRATED BIENNUELLY
 - AIR METER: PRESSURE METER BY FORNEY (CALIBRATED MONTHLY)
 - SLUMP CONE: STANDARD 8" BASE, 4" AT RIM, 12" IN HEIGHT MEASURED IN ACCORDANCE WITH SCC GUIDELINES
 - SCALES FOR UNIT WEIGHT: MEASURED IN ACCORDANCE WITH ASTM C143 100 LBS. CAPACITY CALIBRATED ANNUALLY TO THE NEAREST 1/10TH POUND 4" DIAMETER X 8" PLASTIC
 - CYLINDER MOLDS:
- CONCRETE TESTING AND AIR METER CALIBRATION WILL BE DONE BY PLANT PERSONNEL (ACI GRADE I CERTIFIED) ALL TESTING PRODUCERS WILL BE OBSERVED BY VERMONT INSPECTORS OR AUTHORIZED REPRESENTATIVES.

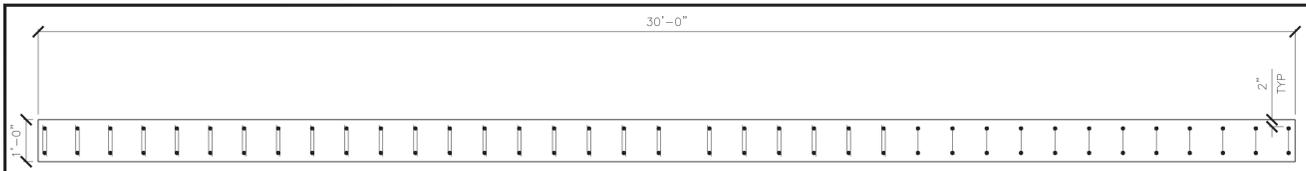
DESIGNED AND DETAILED BY:
DELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS
860 HOOPER ROAD, ENDBELL, NY 13760-1864
TEL: (607) 231-6600 FAX: (607) 231-6650

VT 100 Road Culvert
Duxbury, Vermont
Culvert Layout - Plan and Elevation

Scale: AS SHOWN
Checked by: DELTA
Drawn by: GSC
Project No: 7347
Date: 6/29/16

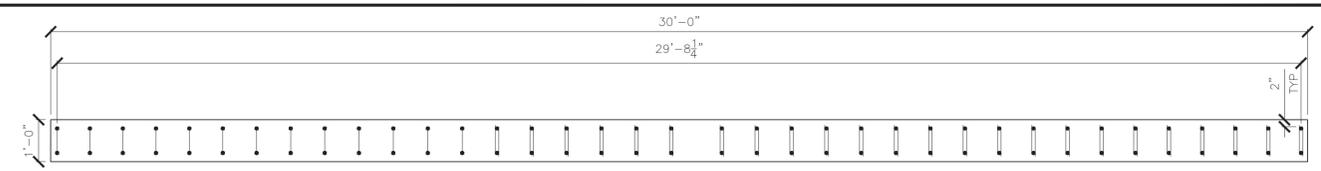
PREPARED FOR:
MICHE
MICHE CORPORATION, INC.
175 BUXTON INDUSTRIAL DRIVE PO BOX 870
DUXBURY, VT 05828
PHONE: 802-428-9216
FAX: 802-428-7426

DWG NO.
S1.0



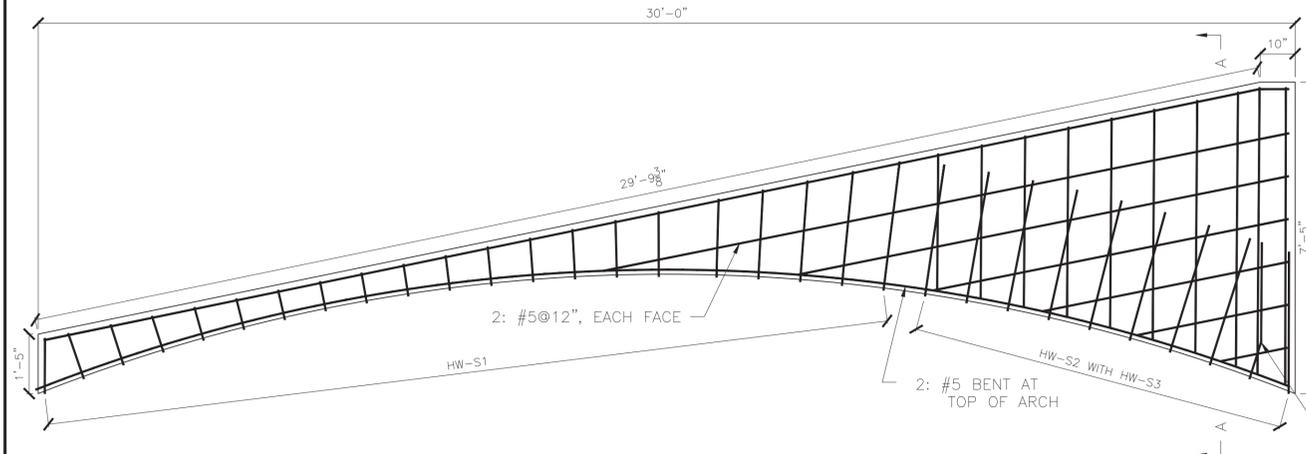
1 INLET HEAD WALL PLAN VIEW
S4.0 1/2" = 1'-0"

HW2 ONE REQUIRED
EACH PIECE WEIGHS: 11,300 LB
HEAD WALL: 2.79 CY

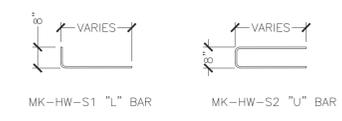


2 OUTLET HEAD WALL PLAN VIEW
S4.0 1/2" = 1'-0"

HW1 ONE REQUIRED
EACH PIECE WEIGHS: 11,016 LB
HEAD WALL: 2.72 CY

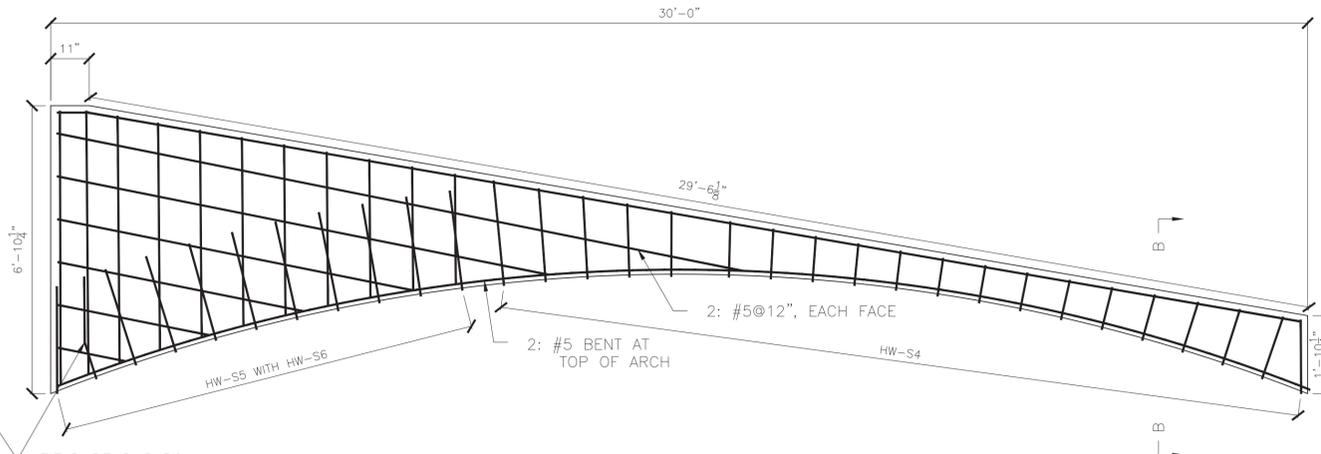


3 INLET HEAD WALL ELEVATION VIEW (HW2)
S4.0 1/2" = 1'-0"

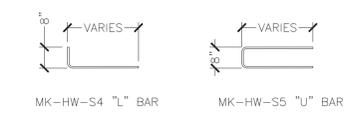


INLET HW2 REINFORCING SCHEDULE				
BAR MARK	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS
MK-HW-S1	BENT	#5@10"	1'-4 1/8" TO 3'-7 1/2"	21
MK-HW-S2	BENT	#5@10"	6'-11 1/2" TO 14'-9 1/4"	10
MK-HW-S3	STRAIGHT DWL IN	#5	3'-2"	20

ALL REBAR TO BE EPOXY COATED

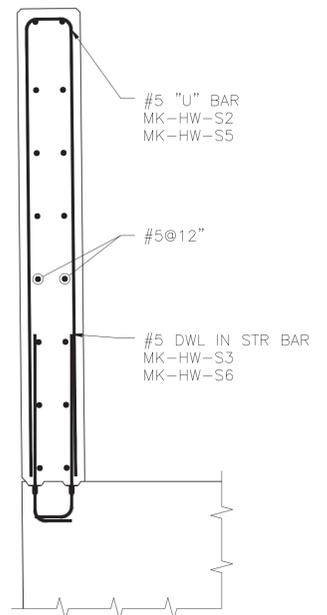


4 OUTLET HEAD WALL ELEVATION VIEW (HW1)
S4.0 1/2" = 1'-0"

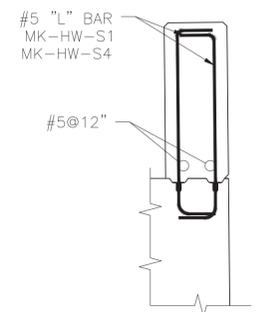


OUTLET HW1 REINFORCING SCHEDULE				
BAR MARK	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS
MK-HW-S4	BENT	#5@10"	1'-6 1/2" TO 3'-0 3/4"	27
MK-HW-S5	BENT	#5@10"	5'-8 1/2" TO 13'-7 1/4"	11
MK-HW-S6	STRAIGHT DWL IN	#5	3'-2"	22

ALL REBAR TO BE EPOXY COATED



SECTION A-A



SECTION B-B

Revision	Date	No.	By



DESIGNED AND DETAILED BY:
DELTA
ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD, ENDWELL, NY 13760-1564
TEL: (607) 231-6600 FAX: (607) 231-6650

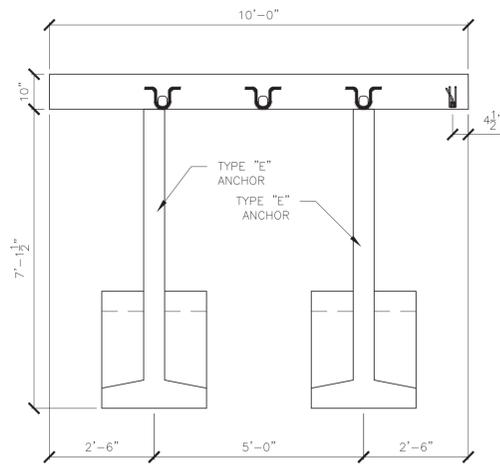
Scale: AS SHOWN
Checked by:
Designed by: DELTA
Drawn by: GSC
Project No. 7347
Date: 6/29/16
VT 100 Road Culvert
Duxbury, Vermont
Head Wall Details

Vermont Agency of Transportation
RECEIVED
CK'D BY TYLin OK'D BY KMH
September 14, 2016
RESUBMIT No Approved
BY Kristin Higgins DATE 09-14-2016

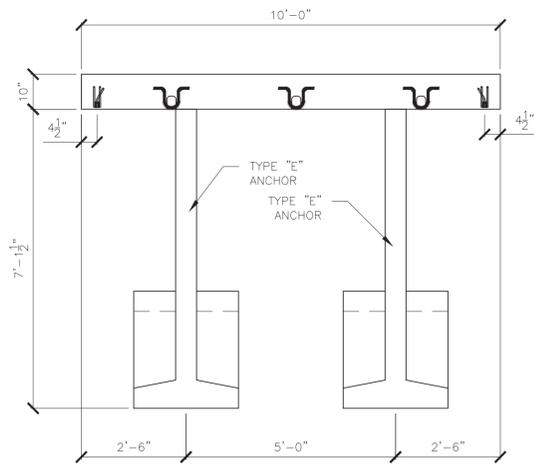
TYLIN INTERNATIONAL
The stamped documents are hereby:
X Approved
Approved as noted
Revise and resubmit
See transmittal for additional information as applicable.
This review is for general conformance with design concept only. Any deviation from the plans or specifications not clearly noted by the Contractor has not been reviewed. Review by the Engineer shall not relieve the Contractor of the contractual responsibility for any errors or deviation from the contract requirements.
Josh Olund 09/13/2016
Reviewer Date

PREPARED FOR:
MICHIE
MICHIE CORPORATION, INC.
173 BUXTON INDUSTRIAL DRIVE, PO BOX 870
BUXTON, VERMONT 05242
PHONE: 802-438-4228
FAX: 802-428-7428

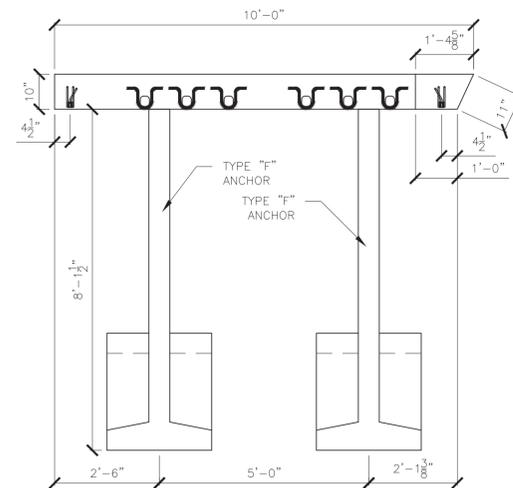
DWG NO.
S4.0



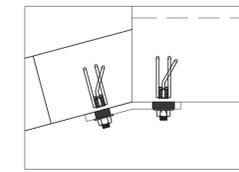
1 WW4C PLAN VIEW
S6.0 1/2" = 1'-0"



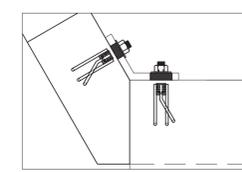
2 WW4B PLAN VIEW
S6.0 1/2" = 1'-0"



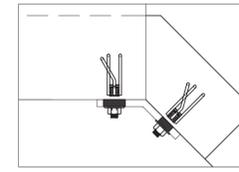
3 WW4A PLAN VIEW
S6.0 1/2" = 1'-0"



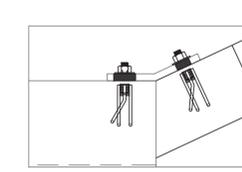
WW1 CONNECTION
165° BENT PLATE



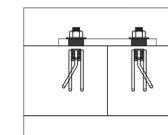
WW3 CONNECTION
120° BENT PLATE



WW2 CONNECTION
135° BENT PLATE

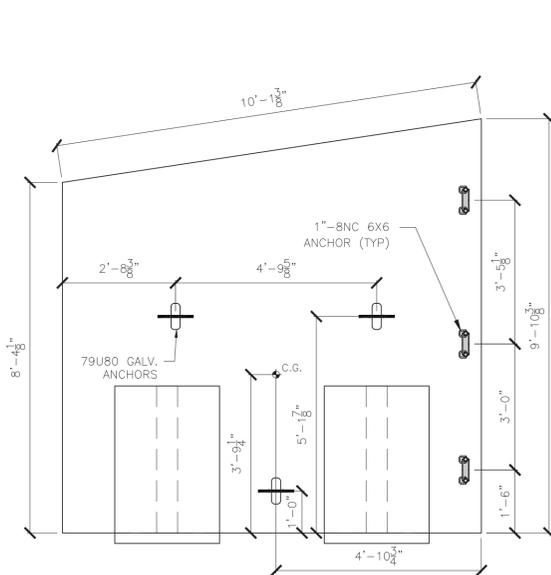


WW4 CONNECTION
155° BENT PLATE



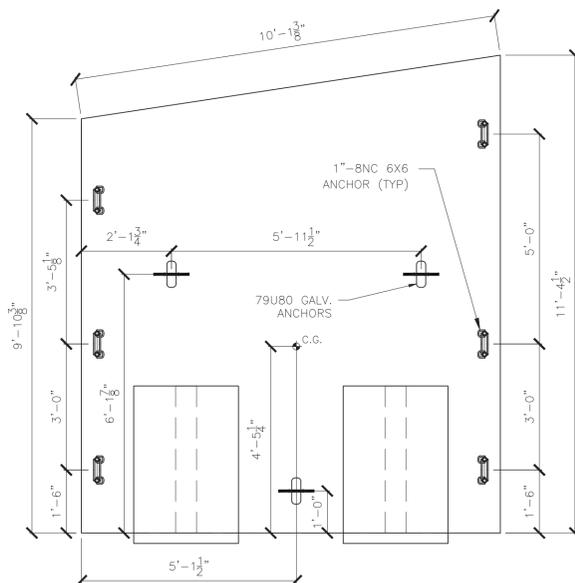
MIDWALL CONNECTION
180° PLATE

ALL CONNECTIONS USE
1" - 8NC 6X6 DOUBLE
WINGWALL ANCHORS
WITH 1" BENT PLATES



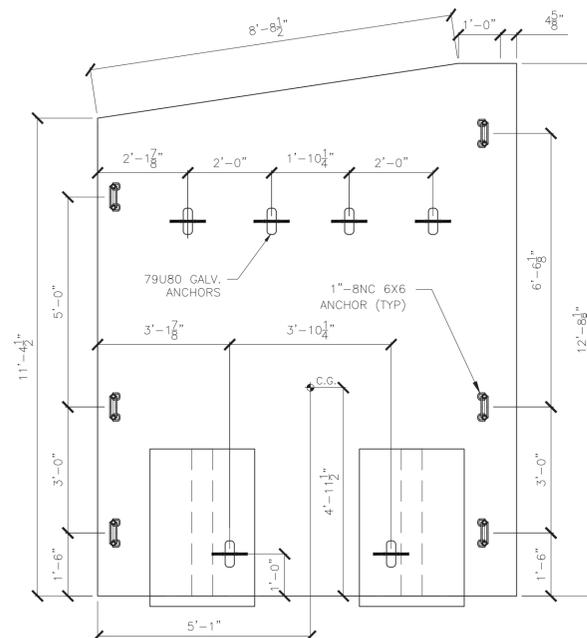
4 WW4C ELEVATION
S6.0 1/2" = 1'-0"

**1 WW4C
REQUIRED**
UNIT WEIGHT AND VOLUME:
TOTAL: 16,429#
WALL: (2.78 CY)
E ANCHOR: 0.64 CY
E ANCHOR: 0.64 CY



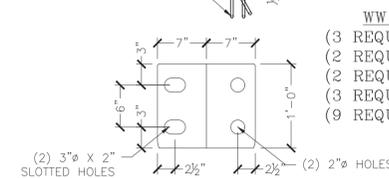
5 WW4B ELEVATION
S6.0 1/2" = 1'-0"

**1 WW4B
REQUIRED**
UNIT WEIGHT AND VOLUME:
TOTAL: 18,262#
WALL: (3.23 CY)
E ANCHOR: 0.64 CY
E ANCHOR: 0.64 CY



6 WW4A ELEVATION
S6.0 1/2" = 1'-0"

**1 WW4A
REQUIRED**
UNIT WEIGHT AND VOLUME:
TOTAL: 20,655#
WALL: (3.68 CY)
F ANCHOR: 0.71 CY
F ANCHOR: 0.71 CY



PLATES TO BE MADE OF 3/4" MILD STEEL,
PLASMA CUT, AND BENT AS REQUIRED.
(HOT DIPPED GALVANIZED AFTER BENDING)

3 WINGWALL BRACKET DETAIL
S5.0 1" = 1'-0"

Vermont Agency of Transportation
RECEIVED

OK'D BY TYLin OK'D BY KMH

September 14, 2016

RESUBMIT No Approved
BY Kristin Higgins DATE 09-14-2016

TYLIN INTERNATIONAL

The stamped documents are hereby:

Approved
Approved as noted
Revise and resubmit

See transmittal for additional information as applicable.

This review is for general conformance with design concept only.
Any deviation from the plans or specifications not clearly noted by
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errors or deviation from the contract requirements.

Josh Olund 09/13/2016
Reviewer Date

No.	Date	Revision



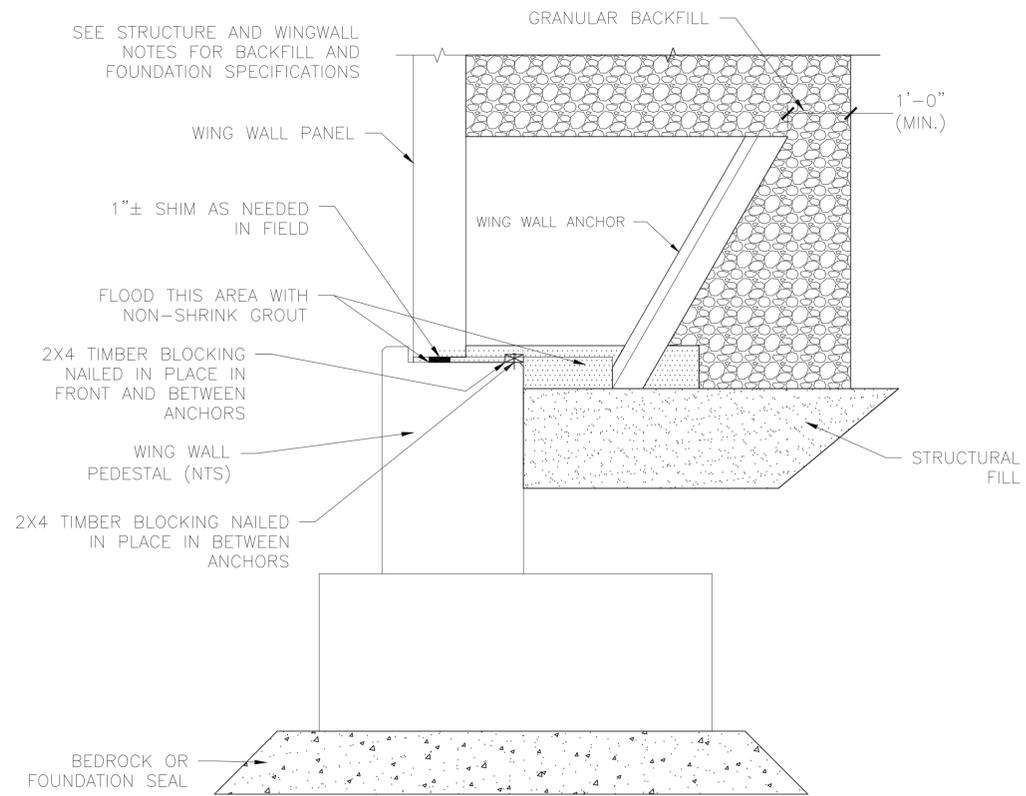
DESIGNED AND DETAILED BY:
DELTA
ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD, ENDDWELL, NY 11760-1564
TEL: (607) 231-6600 FAX: (607) 231-6650

Scale: AS SHOWN
Checked by:
Designed by: DELTA
Drawn by: GSC
**VT 100 Road Culvert
Duxbury, Vermont
Wingwall Details**

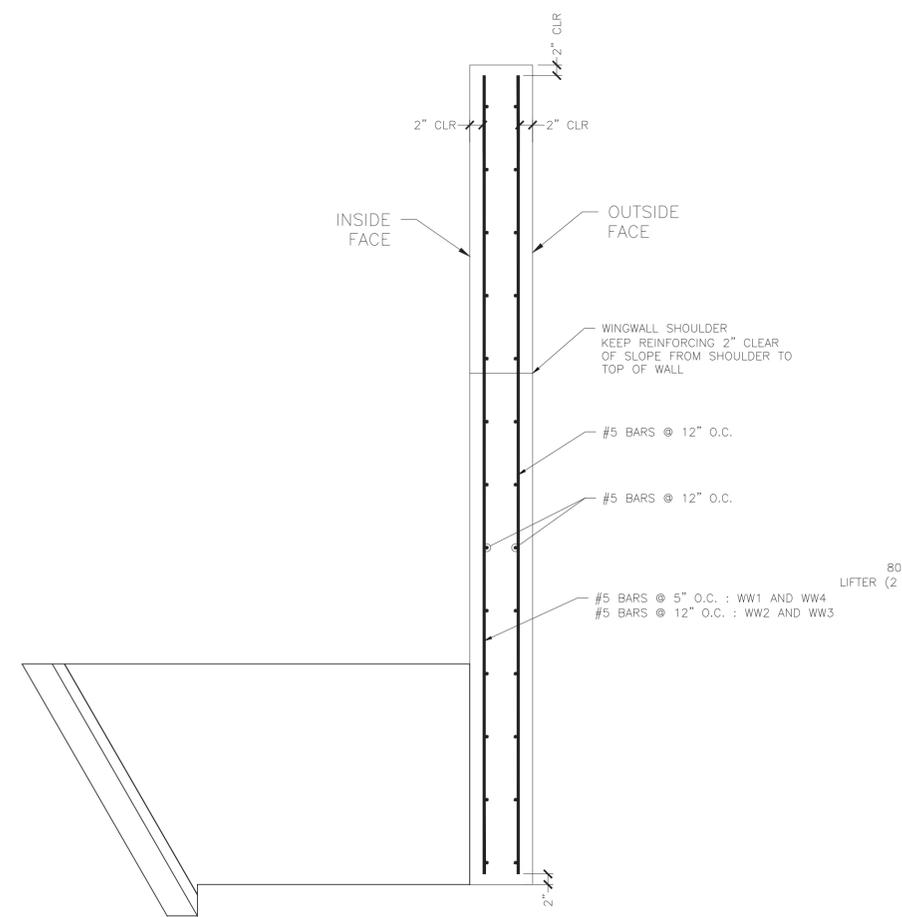
Project No. 7347
Date: 6/29/16

PREPARED FOR:
MICHE
MICHE CORPORATION, INC.
175 BUXTON INDUSTRIAL DRIVE-PO BOX 870
HENNINGER, NH 03242
TEL: 603-428-7426 FAX: 603-428-7426

DWG NO.
S6.0



5 FOOTING TO WW ATTACHMENT DETAIL
S7.0
3/4" = 1'-0"



1 WINGWALL REINFORCING (TYP)
S7.0
3/4" = 1'-0"

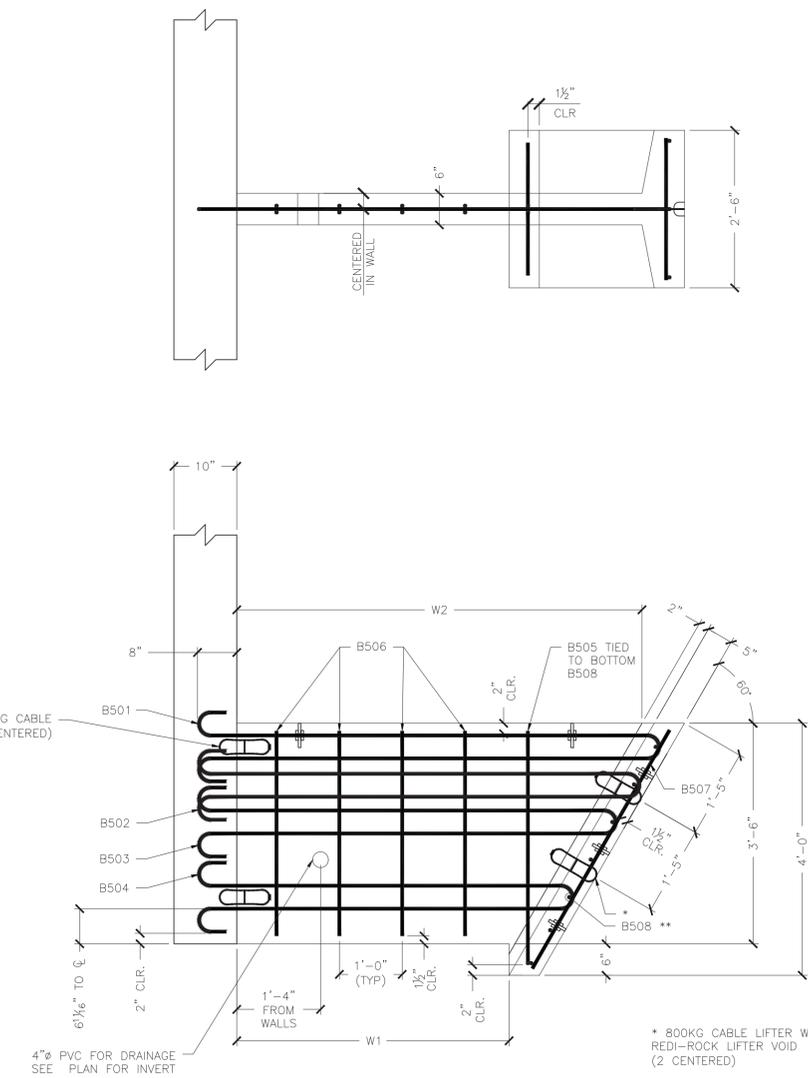
NOTE: BAR COUNTS REPRESENT 1 UNIT.

WW1A REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 12"	12'-8" TO 10'-10"	9	
VERTICAL	ISF	STRAIGHT	#5 @ 5"	12'-8" TO 10'-10"	22	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	9'-2"	13	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	8'-11"	13	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	8'-10"	2	

WW2A REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 12"	7'-1" TO 3'-4"	10	
VERTICAL	ISF	STRAIGHT	#5 @ 12"	7'-1" TO 3'-4"	10	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	6'-9"	8	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	9'-4"	8	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	6'-0"	2	

WW4A REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 5"	12'-3" TO 10'-10"	10	
VERTICAL	ISF	STRAIGHT	#5 @ 12"	12'-3" TO 10'-10"	10	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	9'-8"	12	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	9'-3"	12	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	9'-4"	2	

WW4C REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 12"	9'-4" TO 7'-11"	10	
VERTICAL	ISF	STRAIGHT	#5 @ 12"	9'-4" TO 7'-11"	10	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	9'-8"	10	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	9'-8"	10	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	9'-4"	2	



2 ANCHOR DETAIL
S7.0
3/4" = 1'-0"

WW1B REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 12"	10'-10" TO 8'-10"	10	
VERTICAL	ISF	STRAIGHT	#5 @ 5"	10'-10" TO 8'-10"	23	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	9'-2"	11	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	9'-2"	11	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	9'-4"	2	

WW3A REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 12"	5'-8" TO 3'-7"	8	
VERTICAL	ISF	STRAIGHT	#5 @ 12"	5'-8" TO 3'-7"	7	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	6'-7"	6	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	9'-2"	6	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	9'-4"	2	

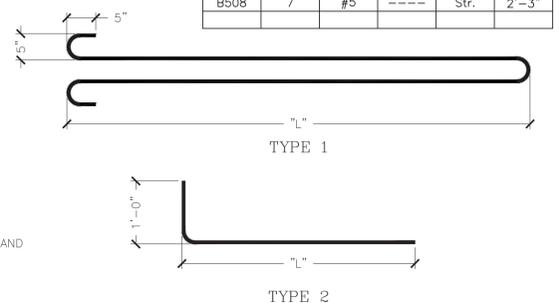
WW4B REINFORCING SCHEDULE						
BAR MARK	LOCATION	TYPE	SIZE/SPACING	CUT LENGTH	# OF PCS	
VERTICAL	OSF	STRAIGHT	#5 @ 5"	10'-10" TO 9'-4"	10	
VERTICAL	ISF	STRAIGHT	#5 @ 12"	10'-10" TO 9'-4"	10	
HORIZONTAL	OSF	STRAIGHT	#5 @ 12"	9'-8"	12	
HORIZONTAL	ISF	STRAIGHT	#5 @ 12"	9'-8"	12	
DIAGONAL	FOLLOW SLOPE	STRAIGHT	#4	9'-4"	2	

5 REQ'D

1 REQ'D

6 REQ'D

2 REQ'D



Vermont Agency of Transportation
RECEIVED
CK'D BY TYLin OK'D BY KMH
September 14, 2016
RESUBMIT No Approved
BY Kristin Higgins DATE 09-14-2016

TYLIN INTERNATIONAL
The stamped documents are hereby:
X Approved
Approved as noted
Revise and resubmit
See transmittal for additional information as applicable.
This review is for general conformance with design concept only. Any deviation from the plans or specifications not clearly noted by the Contractor has not been reviewed. Review by the Engineer shall not relieve the Contractor of the contractual responsibility for any errors or deviation from the contract requirements.
Josh Olund 09/13/2016
Reviewer Date

ANCHOR TYPE "C"		0.48 CY
CONCRETE QUANTITY		
WEIGHT		2010 LB
W1		2'-4"
W2		4'-5 1/2"
X = 2'-8 3/4"	Y = 1'-8 1/2"	

BAR LIST					
MARK	QTY	SIZE	L	TYPE	LENGTH
B501	1	#5	5'-4 1/2"	1	12'-1 1/2"
B502	1	#5	5'-0 1/2"	1	11'-5"
B503	1	#5	4'-8 1/4"	1	10'-9"
B504	1	#5	4'-0"	1	9'-4 1/2"
B505	2	#5	3'-8 1/2"	2	4'-7"
B506	4	#5	-----	Str.	3'-3"
B507	4	#5	-----	Str.	4'-4 1/2"
B508	7	#5	-----	Str.	2'-3"

ANCHOR TYPE "D"		0.48 CY
CONCRETE QUANTITY		
WEIGHT		2020 LB
W1		3'-4"
W2		5'-5 1/2"
X = 3'-5 1/2"	Y = 1'-8 1/2"	

BAR LIST					
MARK	QTY	SIZE	L	TYPE	LENGTH
B501	1	#5	6'-4 1/2"	1	14'-1 1/2"
B502	1	#5	6'-0 1/2"	1	13'-5"
B503	1	#5	5'-8 1/4"	1	12'-9"
B504	1	#5	5'-0"	1	11'-4 1/2"
B505	2	#5	3'-8 1/2"	2	4'-7"
B506	6	#5	-----	Str.	3'-3"
B507	4	#5	-----	Str.	4'-4 1/2"
B508	7	#5	-----	Str.	2'-3"

ANCHOR TYPE "E"		0.61 CY
CONCRETE QUANTITY		
WEIGHT		2550 LB
W1		4'-4"
W2		6'-5 1/2"
X = 4'-0"	Y = 1'-8 1/2"	

BAR LIST					
MARK	QTY	SIZE	L	TYPE	LENGTH
B501	1	#7	7'-4 1/2"	1	16'-1 1/2"
B502	1	#7	7'-0 1/2"	1	15'-5"
B503	1	#7	6'-8 1/4"	1	14'-9"
B504	1	#5	6'-0"	1	13'-4 1/2"
B505	2	#5	5'-0"	2	4'-8 1/2"
B506	8	#5	-----	Str.	3'-3"
B507	4	#5	-----	Str.	4'-4 1/2"
B508	7	#5	-----	Str.	2'-3"

ANCHOR TYPE "F"		0.68 CY
CONCRETE QUANTITY		
WEIGHT		2860 LB
W1		5'-4"
W2		7'-5 1/2"
X = 4'-7 1/2"	Y = 1'-8 1/2"	

BAR LIST					
MARK	QTY	SIZE	L	TYPE	LENGTH
B501	1	#7	8'-4 1/2"	1	18'-1 1/2"
B502	1	#7	8'-0 1/2"	1	17'-5"
B503	1	#7	7'-8 1/4"	1	16'-9"
B504	1	#7	7'-0"	1	15'-4 1/2"
B505	2	#5	3'-8 1/2"	2	4'-8 1/2"
B506	10	#5	-----	Str.	3'-3"
B507	4	#5	-----	Str.	4'-4 1/2"
B508	7	#5	-----	Str.	2'-3"

By: _____
Date: _____
Revision: _____
No. _____
Date: _____

DESIGNED AND DETAILED BY:
DELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS
860 HOOPER ROAD, ENDBELL, NY 13760-1564
TEL: (607) 231-6600 FAX: (607) 231-6650

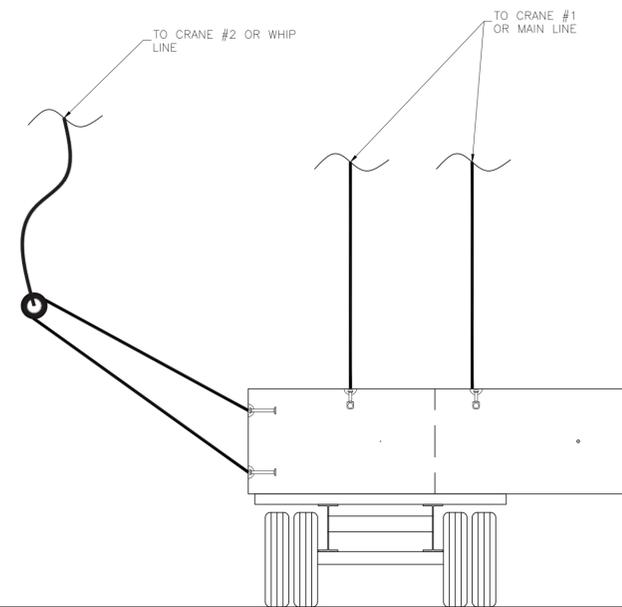
Scale: AS SHOWN
Checked by: _____
Drawn by: GSC
Designed by: DELTA

Project No. 7347
Date: 6/29/16

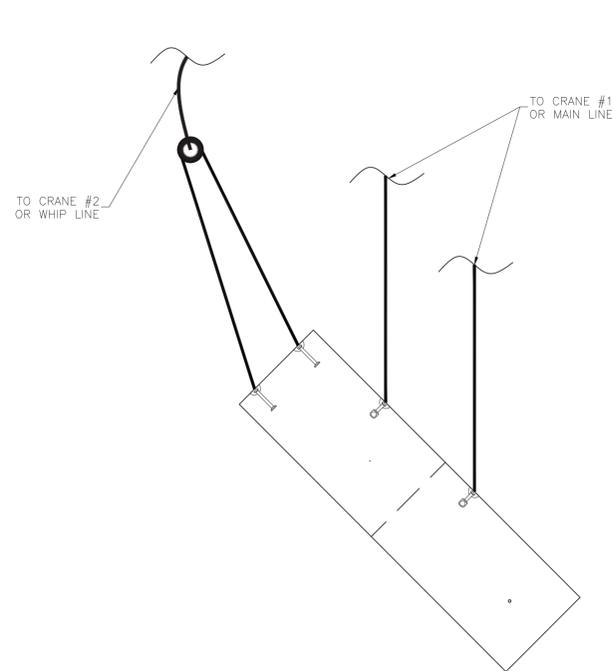
PREPARED FOR:
MICHE
MICHE CORPORATION, INC.
175 BUXTON INDUSTRIAL DRIVE-PO BOX 870
HENNER, NH 03242
TEL: 603-428-7426 FAX: 603-428-7426

VT 100 Road Culvert
Duxbury, Vermont
Anchor Details

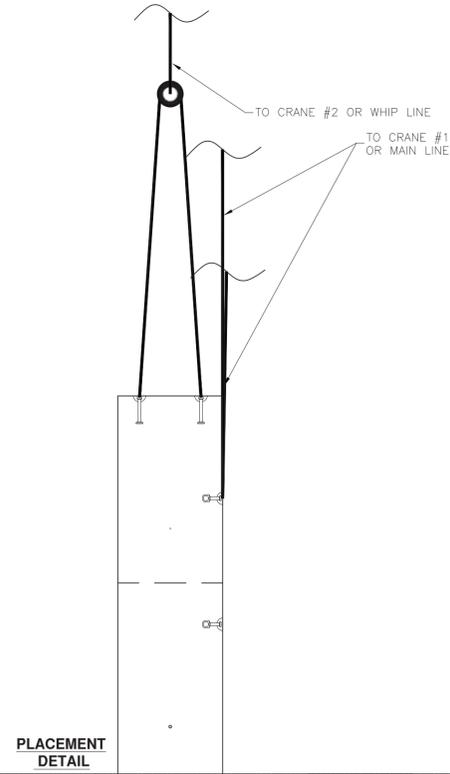
DWG NO.
S7.0



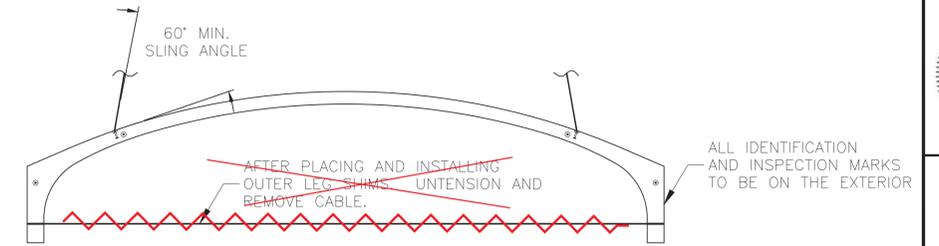
FIELD LIFTING DETAIL



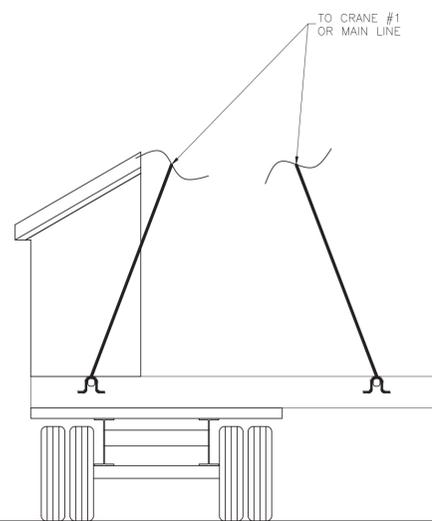
ROTATION DETAIL



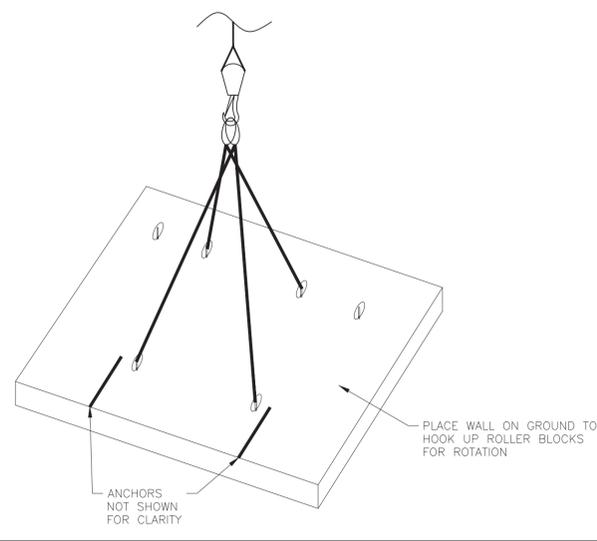
PLACEMENT DETAIL



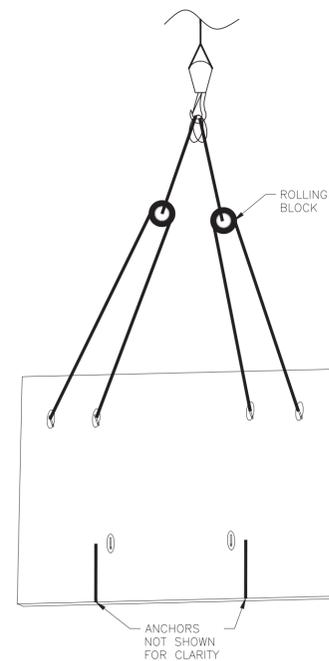
ERECTION VIEW



FIELD LIFTING DETAIL



ROTATION DETAIL



PLACEMENT DETAIL

Vermont Agency of Transportation
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September 14, 2016

RESUBMIT No Approved AsNoted
BY Kristin Higgins DATE 09/14/2016

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