

OVERALL



American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

TEL: 207-947-8334

FAX: 207-947-3580

WWW.AMERICANCONCRETE.COM

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
1	1	UPSTREAM END TOP	27,980
2	1	UPSTREAM END BOTTOM	28,150
3	12	MID SECTION TOP	27,465
4	12	MID SECTION BOTTOM	27,695
5	1	DOWNSTREAM END TOP	26,975
6	1	DOWNSTREAM END BOTTOM	27,145
7	2	1' x 2' x 16'-8" TOEWALL	4,985
8	28	#8 x 22" TOEWALL PIN (SHIPPED LOOSE)	

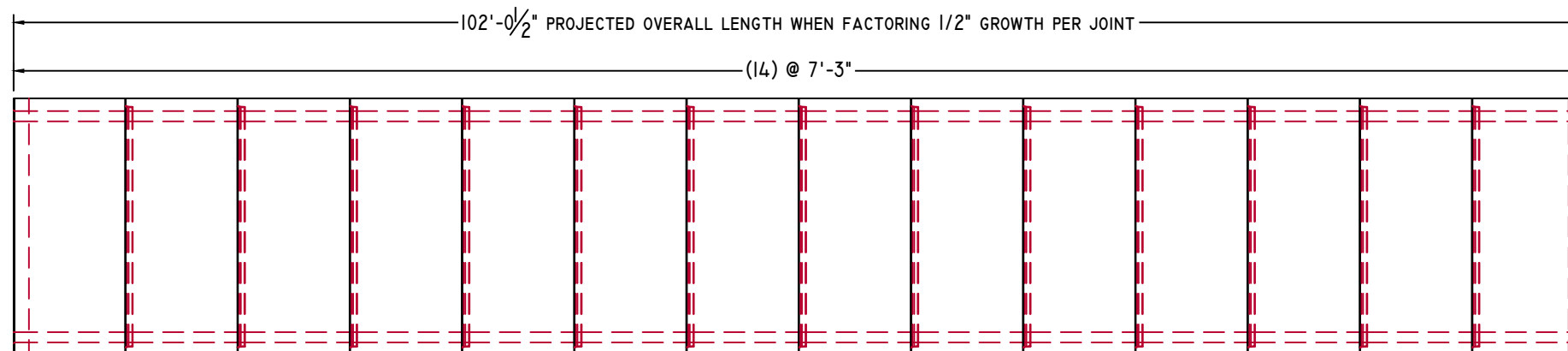
DESIGN NOTES:

- Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% MIN - 7.5% MAX
- Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWF PER ASTM A1064, GRADE 75
 - 2.3. SUPPLEMENTAL REINFORCING AS SHOWN (WHEN REQUIRED)
 - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
 - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
- Manufacturing / Installation:**
 - 3.1. JOINTS SEALED WITH BUTYL RUBBER SEALANT.
 - 3.2. ALL JOINTS FILLED W/ NON-SHRINK GROUT AFTER INSTALLATION.
- Soil / Fill Requirements:**
 - MINIMUM ALLOWABLE FILL: 7.50'
 - MAXIMUM ALLOWABLE FILL: 8.50'

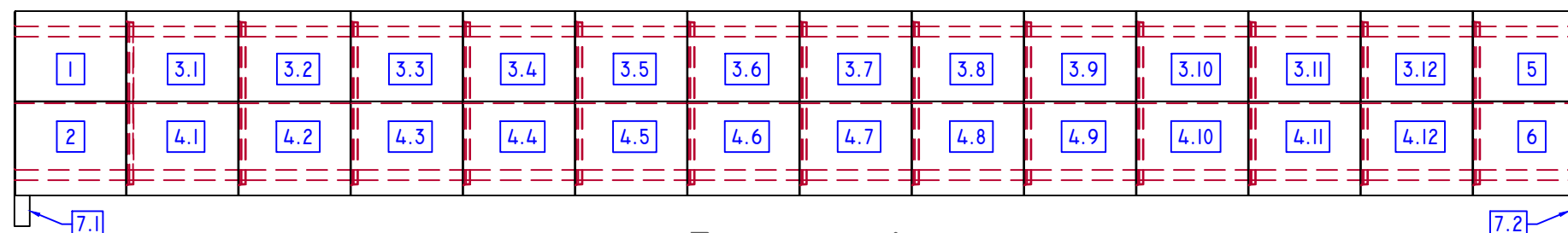
NOTE: Some details not shown for clarity.
SCALE: 3/32" = 1'-0" Unless noted otherwise.

STRUCTURE NAME: 15' x 10' x 102' CLAMHELL CULVERT	
JOB NAME: SEALANDER BROOK BRIDGE (WIN 23036.10)	
LOCATION: WOODLAND, ME	
CONTRACTOR: ME DOT	

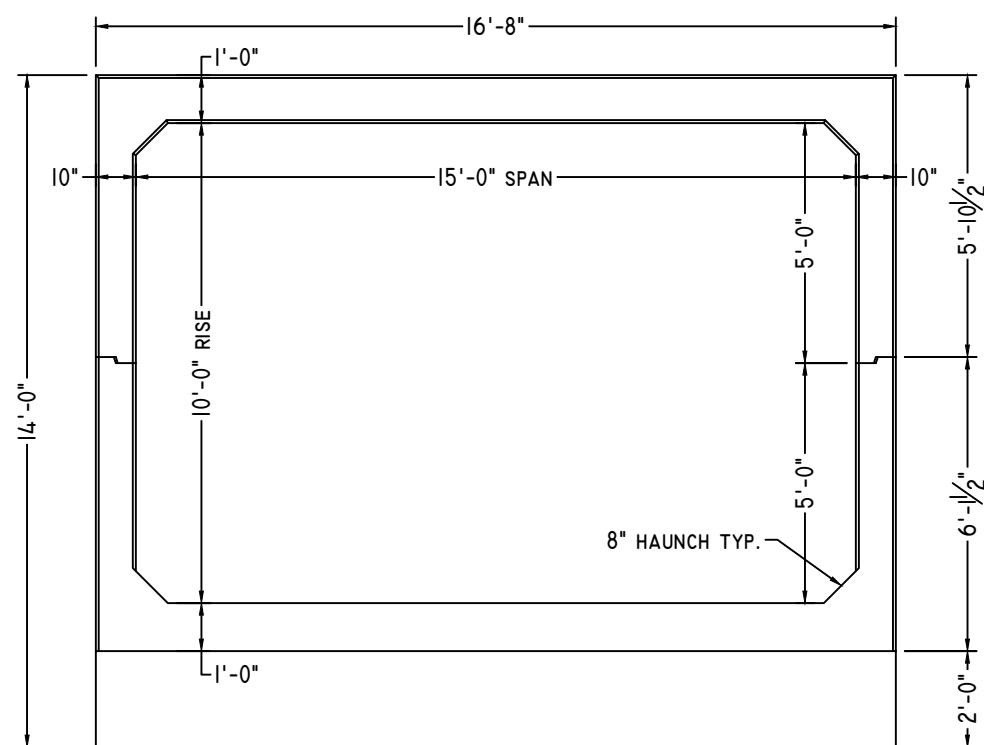
DRAWN BY: SSM	DATE: 02/22/2023	CI.0
REV.#: 0.00	DATE: 02/22/2023	



PLAN VIEW

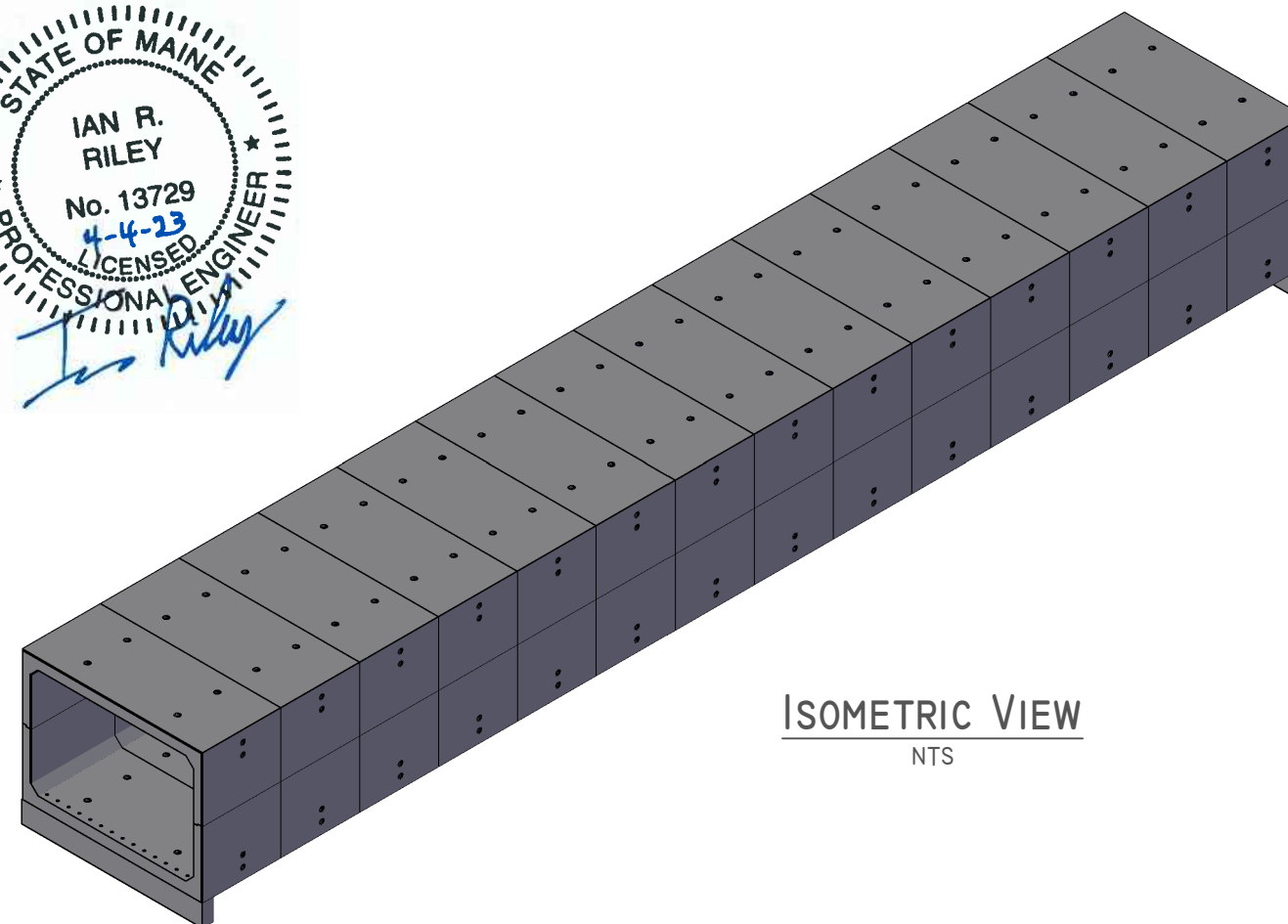
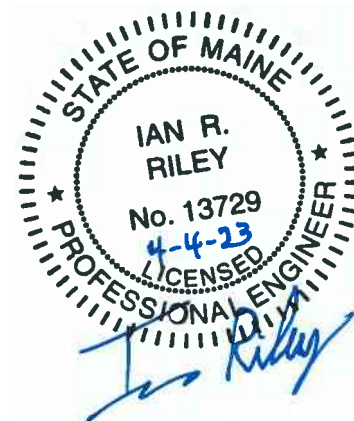


ELEVATION-A



ELEVATION-B

1/4" = 1'-0"



ISOMETRIC VIEW

NTS

UPSTREAM END



American Concrete Industries

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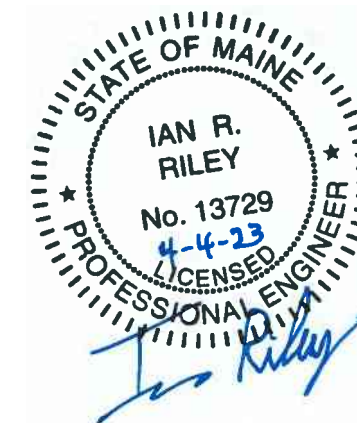
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BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
1	1	UPSTREAM END TOP	27,980
2	1	UPSTREAM END BOTTOM	28,150

DESIGN NOTES:

1. **Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% MIN - 7.5% MAX
2. **Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWF PER ASTM A1064, GRADE 75
 - 2.3. SUPPLEMENTAL REINFORCING AS SHOWN (WHEN REQUIRED)
 - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
 - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
3. **Manufacturing / Installation:**
 - 3.1. JOINTS SEALED WITH BUTYL RUBBER SEALANT.
 - 3.2. ALL JOINTS FILLED W/ NON-SHRINK GROUT AFTER INSTALLATION.
4. **Soil / Fill Requirements:**
 - MINIMUM ALLOWABLE FILL: 7.50'
 - MAXIMUM ALLOWABLE FILL: 8.50'

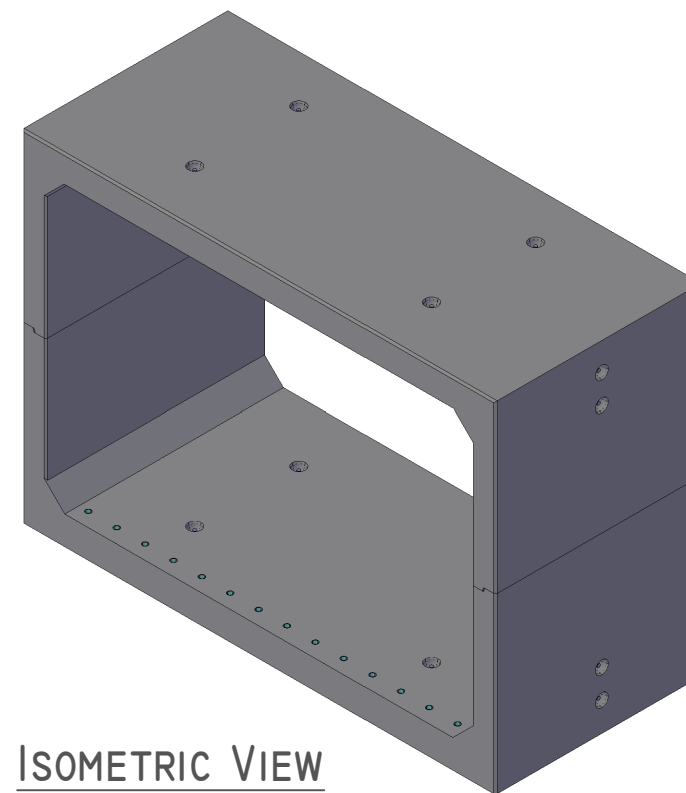


NOTE: Some details not shown for clarity.
SCALE: 1/4" = 1'-0" Unless noted otherwise.

STRUCTURE NAME: 15' x 10' x 102' CLAMSHELL CULVERT	
JOB NAME: SEALANDER BROOK BRIDGE (WIN 23036.10)	
LOCATION: WOODLAND, ME	
CONTRACTOR: ME DOT	

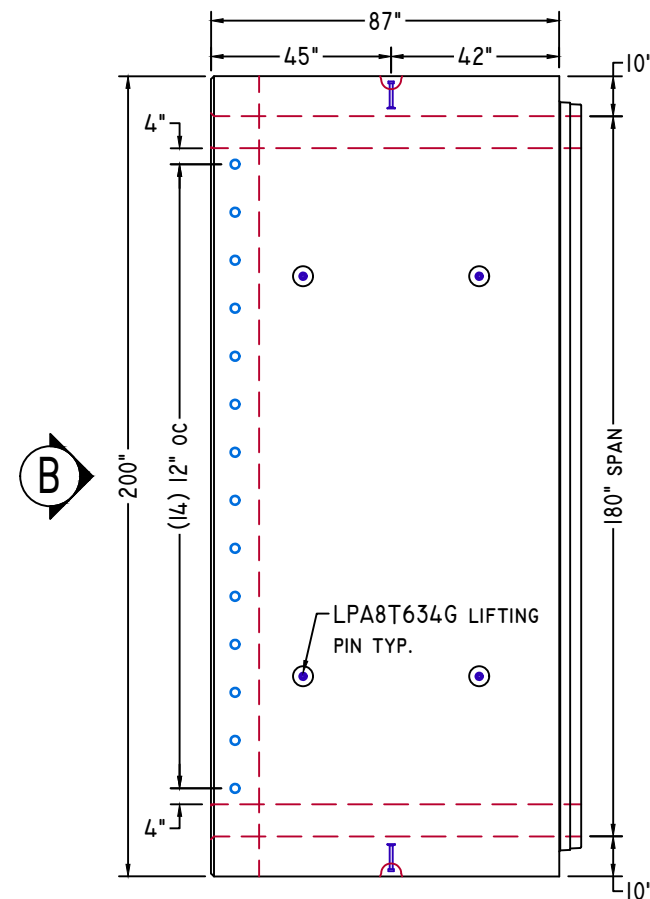
DRAWN BY: SSM	DATE: 02/22/2023
REV.#: 0.00	DATE: 02/22/2023

CI.1

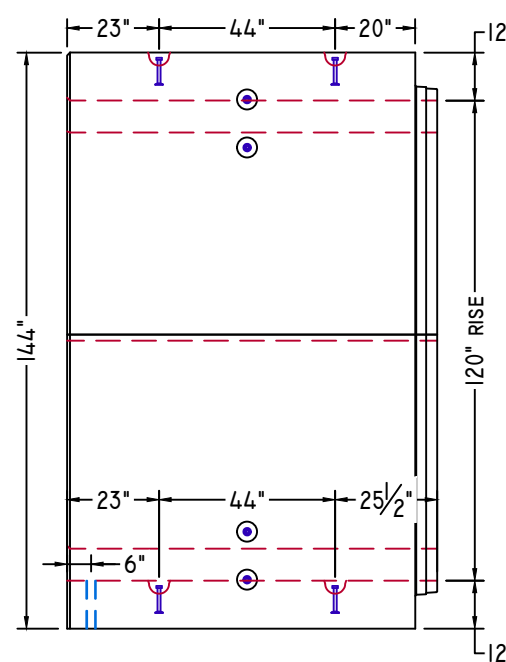


ISOMETRIC VIEW

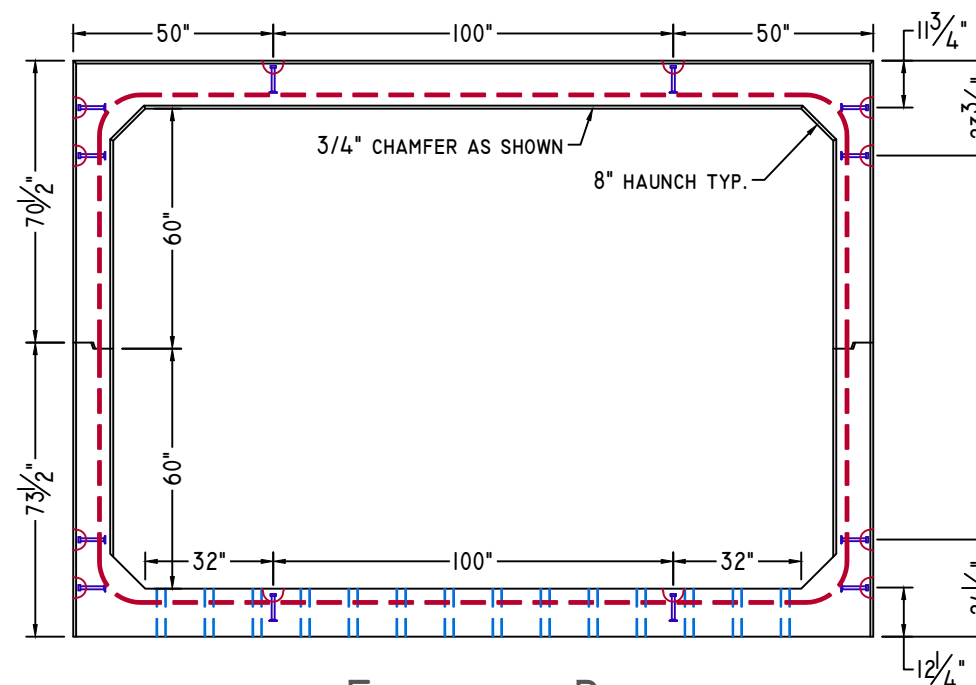
NTS



PLAN VIEW



ELEVATION-A



ELEVATION-B

MID SECTION

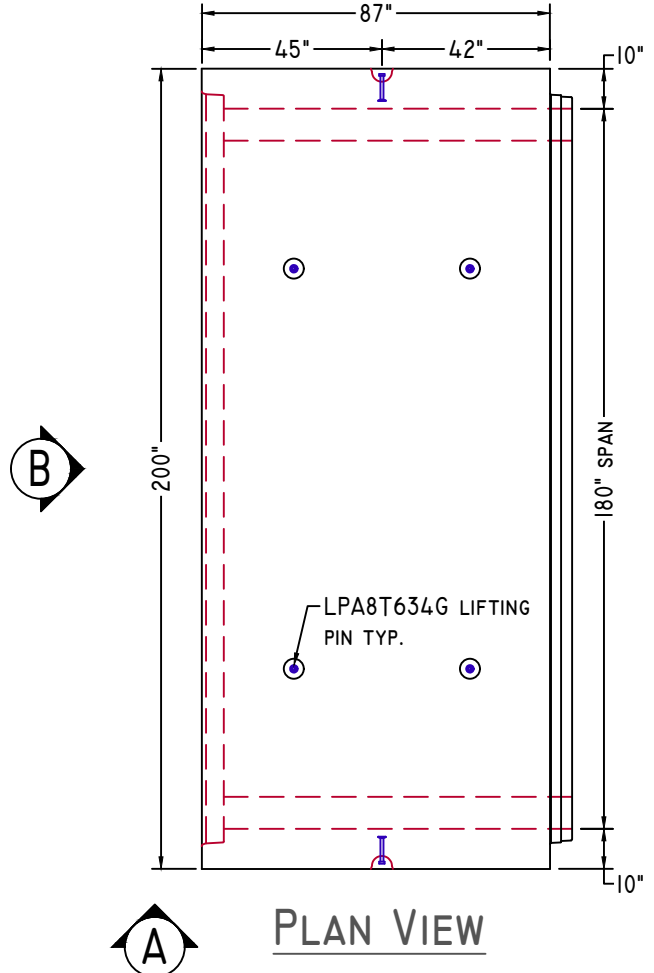


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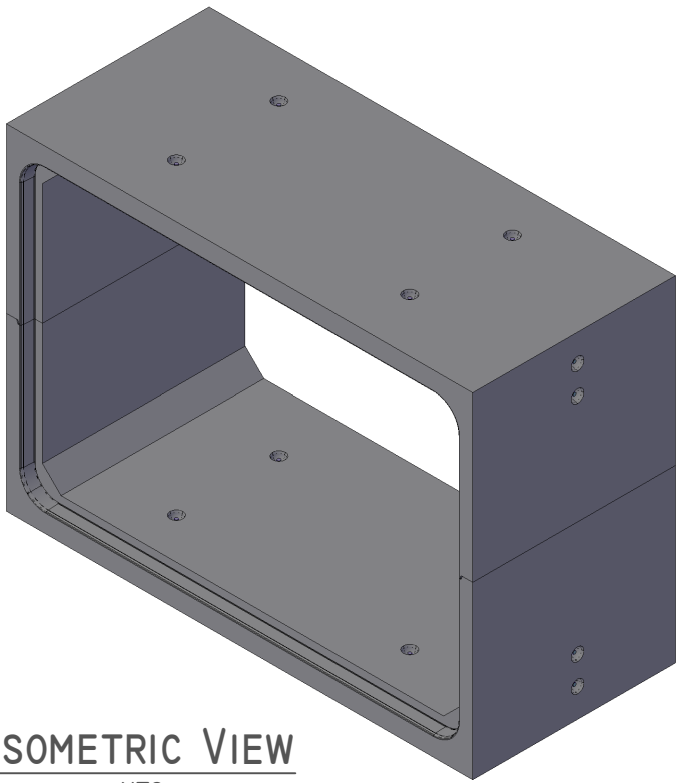
BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
3	12	MID SECTION TOP	27,465
4	12	MID SECTION BOTTOM	27,695

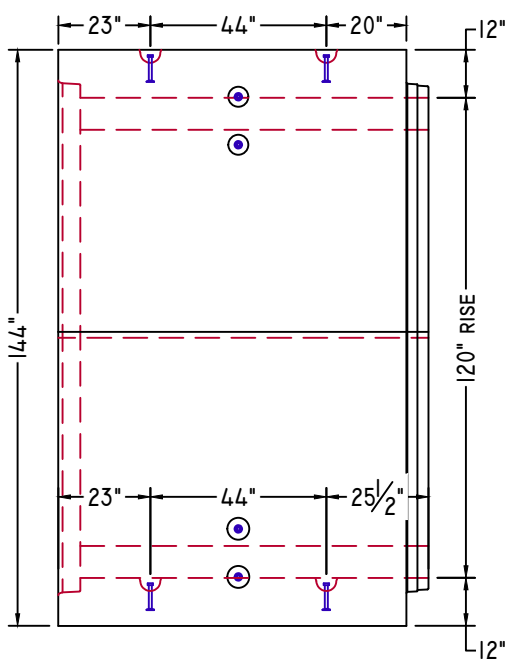
- DESIGN NOTES:
- Concrete**
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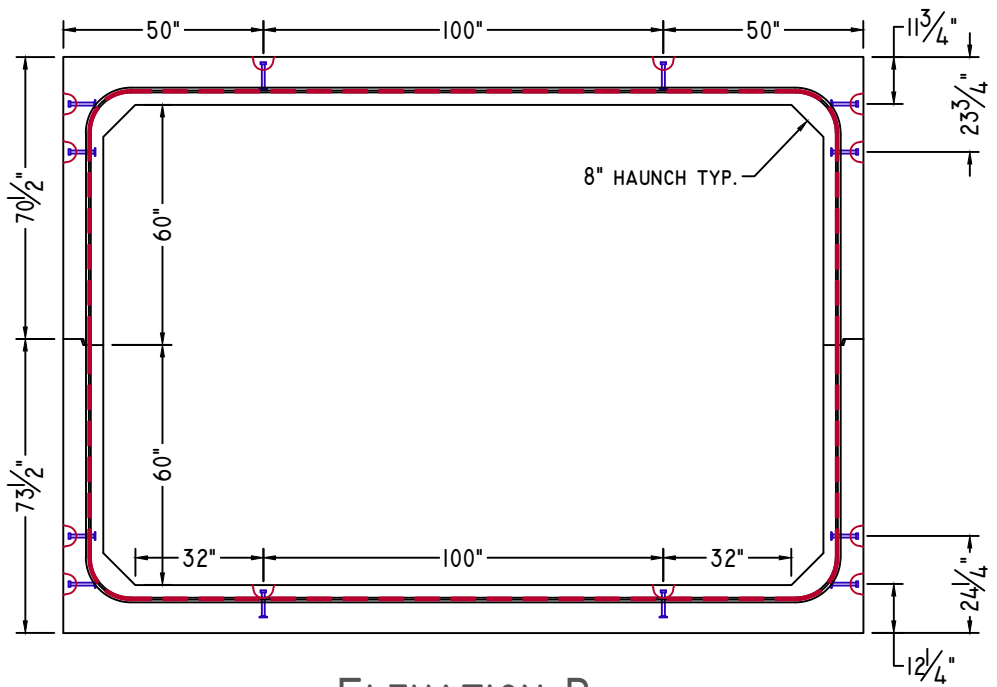
PLAN VIEW



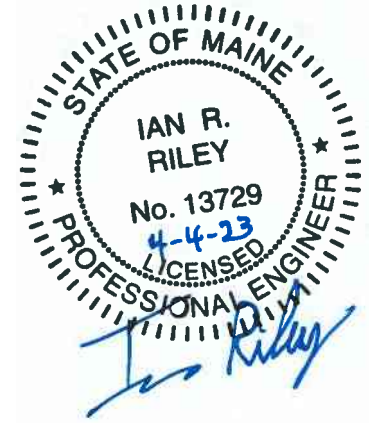
ISOMETRIC VIEW
NTS



ELEVATION-A



ELEVATION-B



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 SCALE: 1/4" = 1'-0" Unless noted otherwise.

STRUCTURE NAME:
15' x 10' x 102' CLAMSHELL CULVERT

JOB NAME:
SEALANDER BROOK BRIDGE (WIN 23036.10)

LOCATION:
WOODLAND, ME

CONTRACTOR:
ME DOT

DRAWN BY: SSM	DATE: 02/22/2023
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CI.2

DOWNSTREAM END



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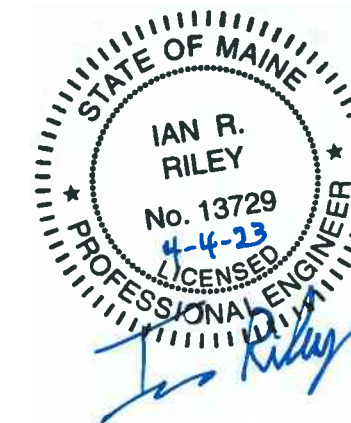
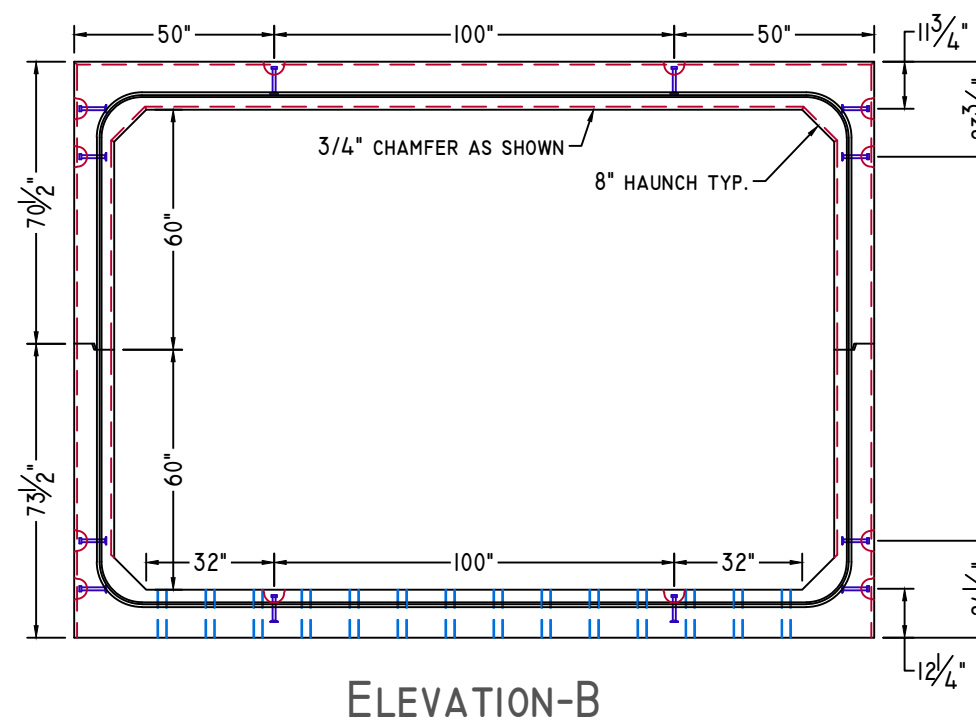
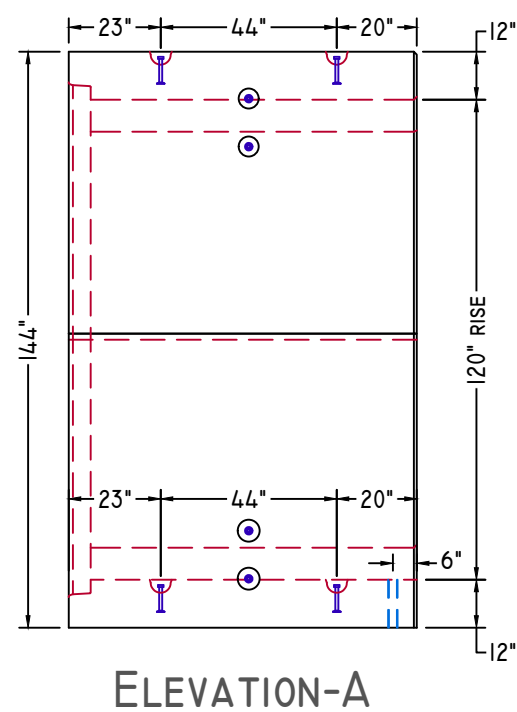
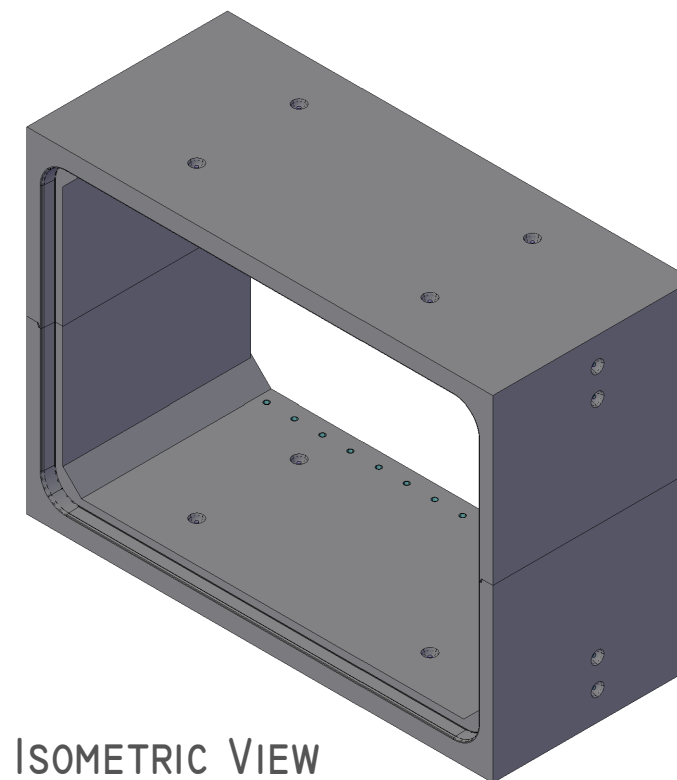
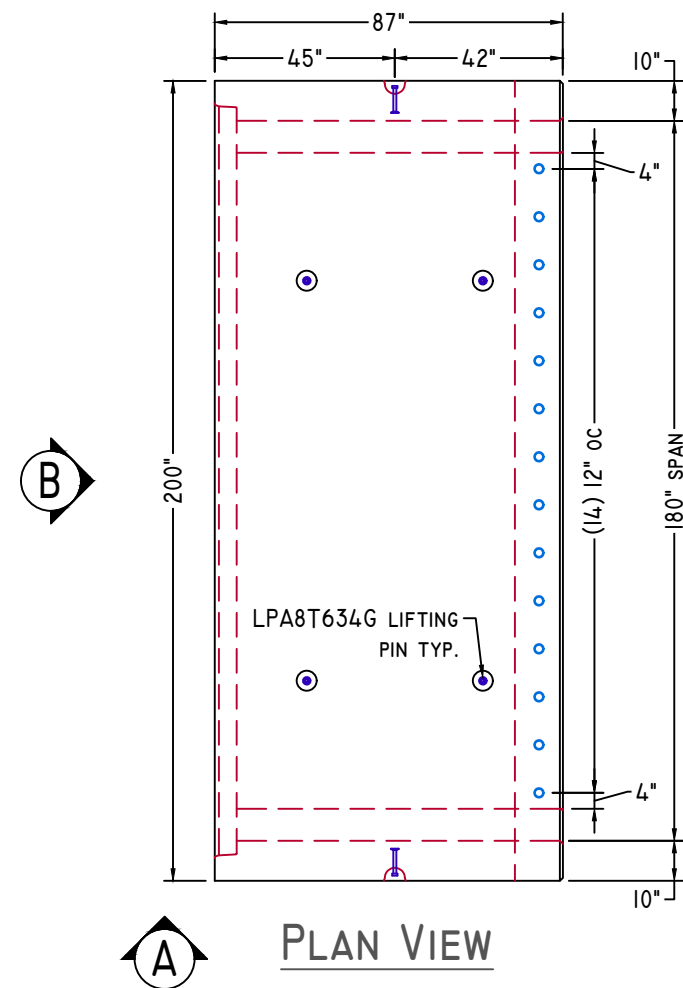
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BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
5	1	DOWNSTREAM END TOP	26,975
6	1	DOWNSTREAM END BOTTOM	27,145

DESIGN NOTES:

1. Concrete
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
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2. Structural Reinforcement:
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 - 2.3. SUPPLEMENTAL REINFORCING AS SHOWN (WHEN REQUIRED)
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SCALE: 1/4" = 1'-0" Unless noted otherwise.

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JOB NAME: SEALANDER BROOK BRIDGE (WIN 23036.10)	
LOCATION: WOODLAND, ME	
CONTRACTOR: ME DOT	

DRAWN BY: SSM	DATE: 02/22/2023
REV.#: 0.00	DATE: 02/22/2023

CI.3

STANDARD DETAILS



American Concrete Industries

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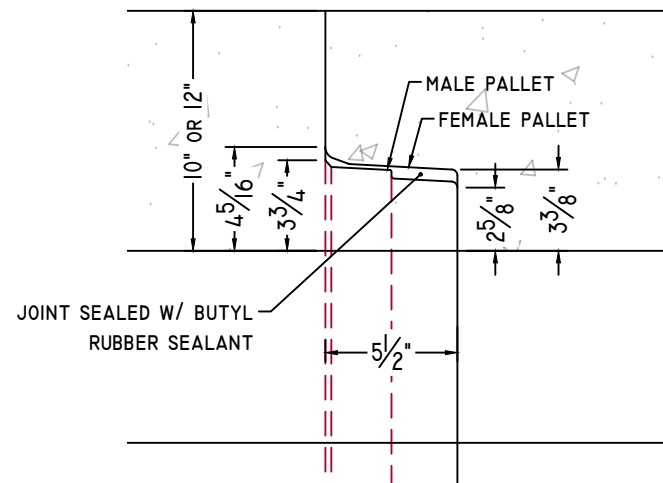
TEL: 207-947-8334

FAX: 207-947-3580

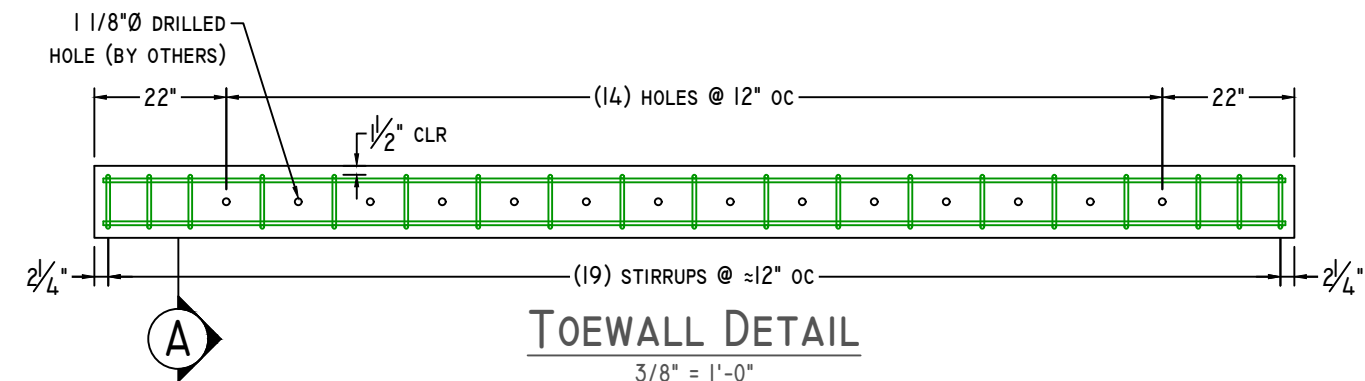
WWW.AMERICANCONCRETE.COM

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
INTENTIONALLY LEFT BLANK			

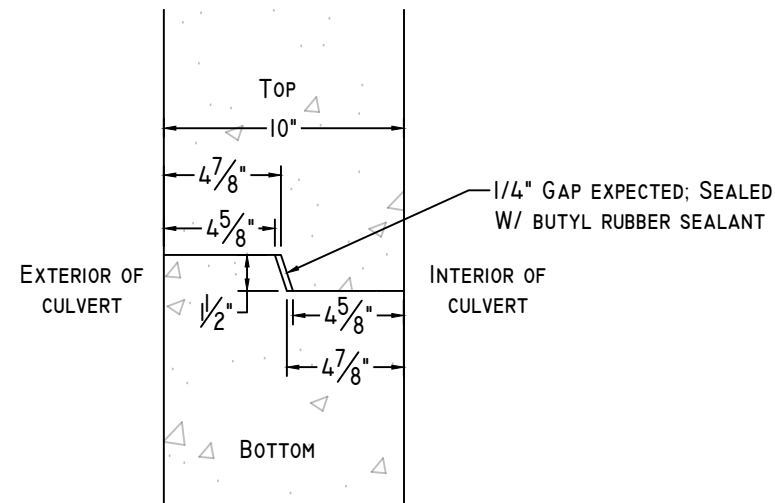


CULVERT JOINT DETAIL

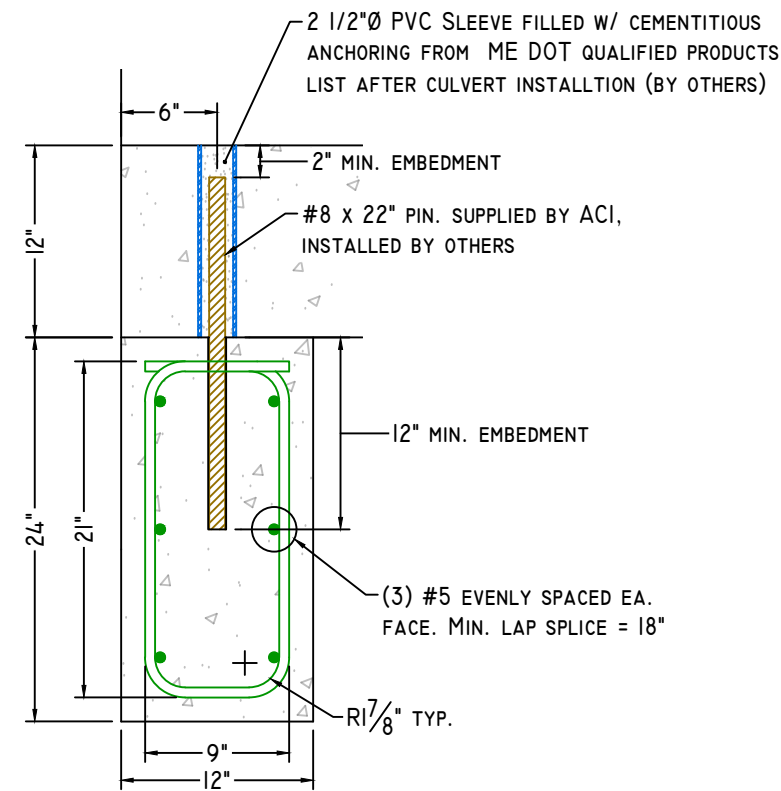


TOEWALL DETAIL

3/8" = 1'-0"

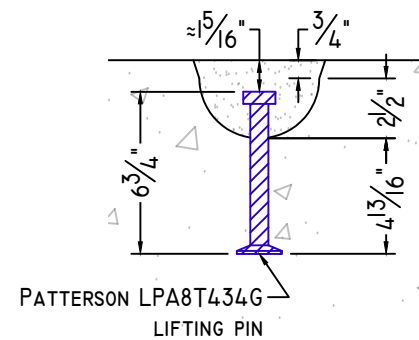


CLAMSHELL JOINT DETAIL

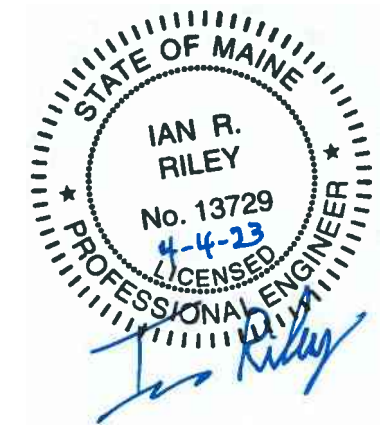


SECTION-A

1" = 1'-0"



8T 6 3/4" LIFTING PIN DETAIL



NOTE: Some details not shown for clarity.
SCALE: 1 1/2" = 1'-0" Unless noted otherwise.

STRUCTURE NAME: 15' x 10' x 102' CLAMSHELL CULVERT		DI.0
JOB NAME: SEALANDER BROOK BRIDGE (WIN 23036.10)		
LOCATION: WOODLAND, ME		
CONTRACTOR: ME DOT		
DRAWN BY: SSM	DATE: 02/22/2023	
REV.#: 0.00	DATE: 02/22/2023	

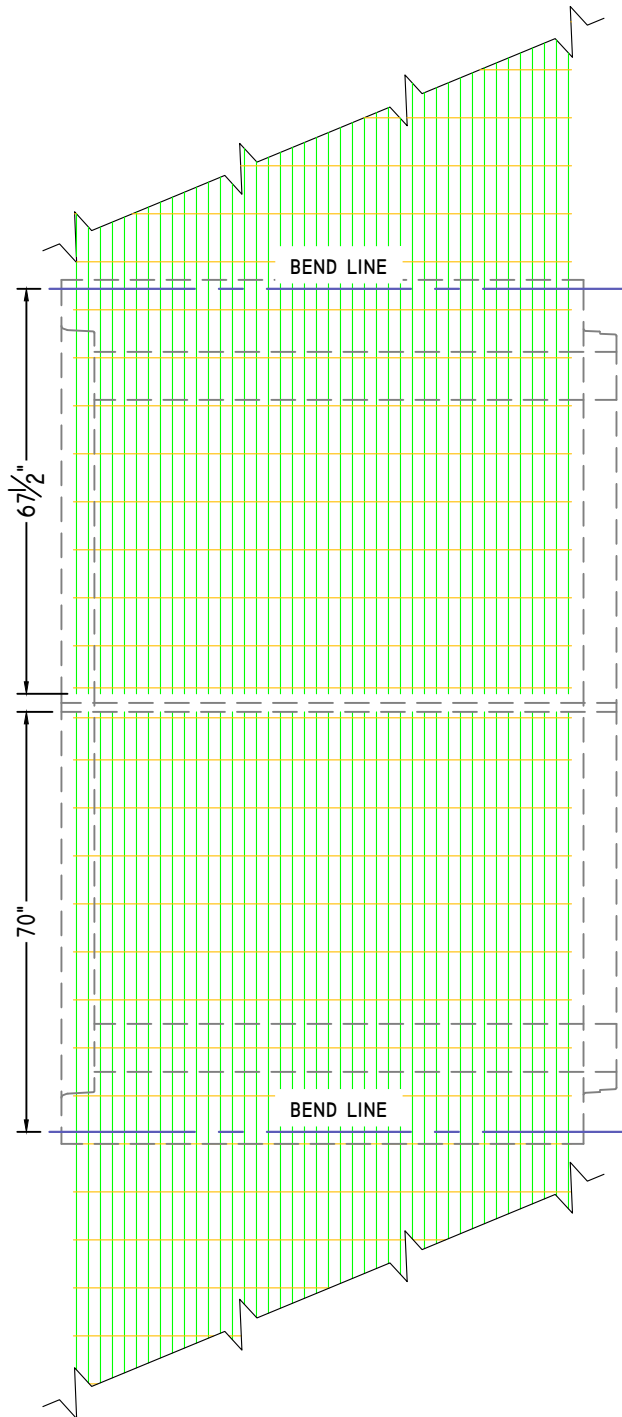
WELDED WIRE DETAILS



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BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
INTENTIONALLY LEFT BLANK			



TYPICAL EXTERIOR



NOTE: Some details not shown for clarity.
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STRUCTURE NAME:	15' x 10' x 102' CLAMSHELL CULVERT
JOB NAME:	SEALANDER BROOK BRIDGE (WIN 23036.10)
LOCATION:	WOODLAND, ME
CONTRACTOR:	ME DOT

DRAWN BY:	DATE:
SSM	02/22/2023
REV.#:	DATE:
0.00	02/22/2023

WI.0

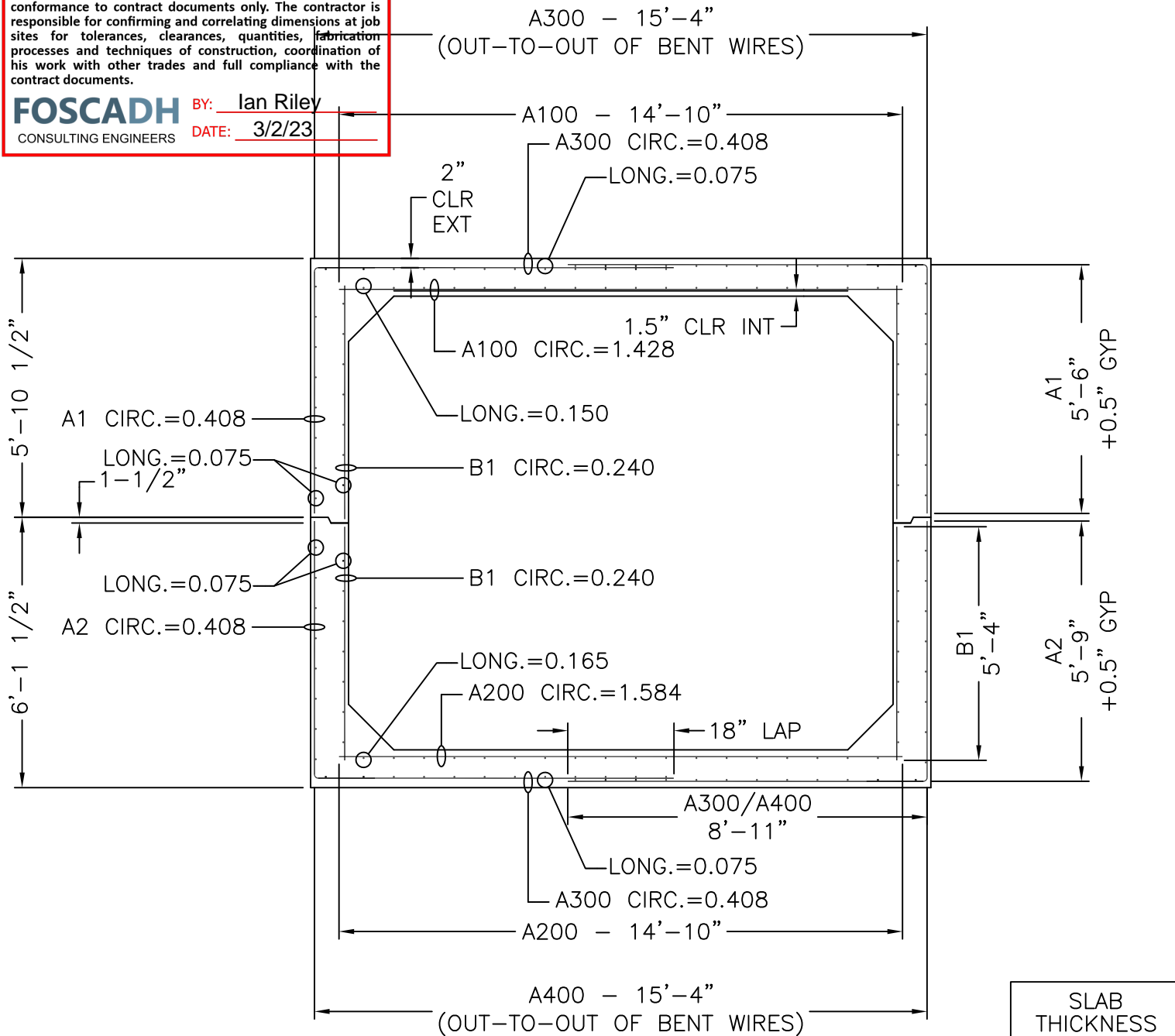
SHOP DRAWING/SUBMITTAL REVIEW

APPROVED APPROVED WITH CHANGES NOTES

REVISE AND RESUBMIT REJECTED:

Submittal was reviewed for design conformity and general conformance to contract documents only. The contractor is responsible for confirming and correlating dimensions at job sites for tolerances, clearances, quantities, fabrication processes and techniques of construction, coordination of his work with other trades and full compliance with the contract documents.

FOSCADH BY: Ian Riley
CONSULTING ENGINEERS DATE: 3/2/23



15' x 10' x 7'-3"

CROSS SECTION WITH AREAS OF STEEL

SLAB THICKNESS	
TOP	12"
BOTTOM	12"
WALLS	10"

MECHANICAL DIMENSIONS

DIM. 'L'	=	N/A
DIM. 'M'	=	N/A
DIM. 'R'	=	N/A
DIM. 'S'	=	N/A

CAGE WEIGHT PER 7'-3" JOINT = 2166.7 lbs

BOX SIZE: 15' X 10' X 7'-3"	ASTM: HL-93	TABLE: 125%	FILL: 7.5'-8.5'
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Concrete Reinforcements, Inc.

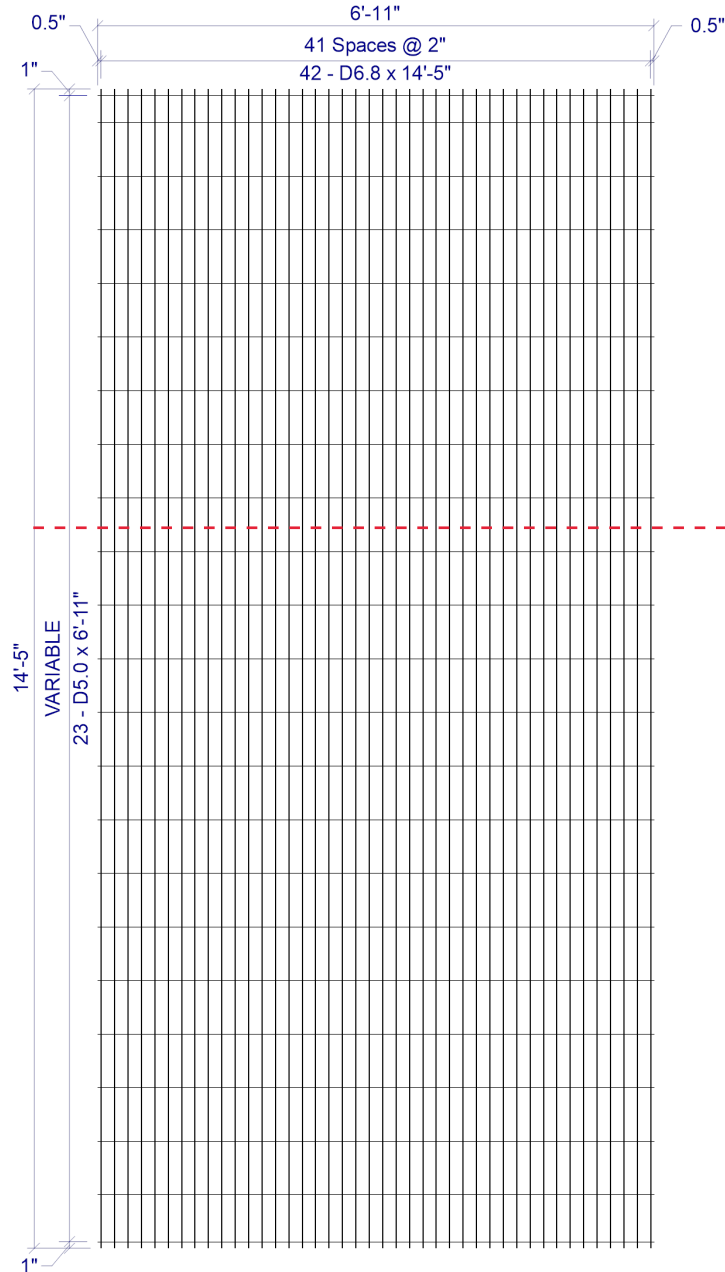
3830 Presidents Way
Jacksonville, FL 32220
PH. 904-520-7100 FAX. 904-520-7101

CUSTOMER: AMERICAN CONCRETE	DRAWN BY: BWA	REVISION: -	SHEET DESCRIPTION: COVER	
PROJECT: 15' X 10' X 7'-3" WOODLAND	DATE: 2/20/2023	REVISION DATE: -	FILE NAME: F22-4384	
CHECKED BY: BWA	SCALE: NTS	PROJECT #: F22-4384	SHEET #: 1 OF 6	

SHEET DESIGN



Concrete Reinforcements, Inc.
 3830 Presidents Way • Jacksonville, FL 32220
 Phone: 904-520-7100 • Fax: 904-520-7101



BEND LINE

CUSTOMER American Concrete
 PROJECT F22-4384 - Drawings - 15x10 Woodland - American Concrete - 2-20-2023
 LOCATION Veazie, ME
 DATE 02-20-2023 MARK NUMBER B2/A300 (-01)

L.W.SPAC 2"
 C.W.SPAC VAR
 L.W.1 SIZE D6.8
 L.W.2 SIZE N/A
 C.W.SIZE D5.0
 WIDTH 6'-11"
 LENGTH 14'-5"
 OH.LEFT 0.5"
 OH.RIGHT 0.5"
 OH.TOP 1"
 OH.BOTTOM 1"
 YIELD 75,000psi
 BENT -
 CUT -
 ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	42	N/A
SIZE	D6.8	N/A	D5.0
LENGTH	14'-5"	-	6'-11"
W.T./SHEET			
SHEET W.T.	171.20#		
QUANTITY	28		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS/CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:
 BEND DIMS: WALL=66", SLAB=107"

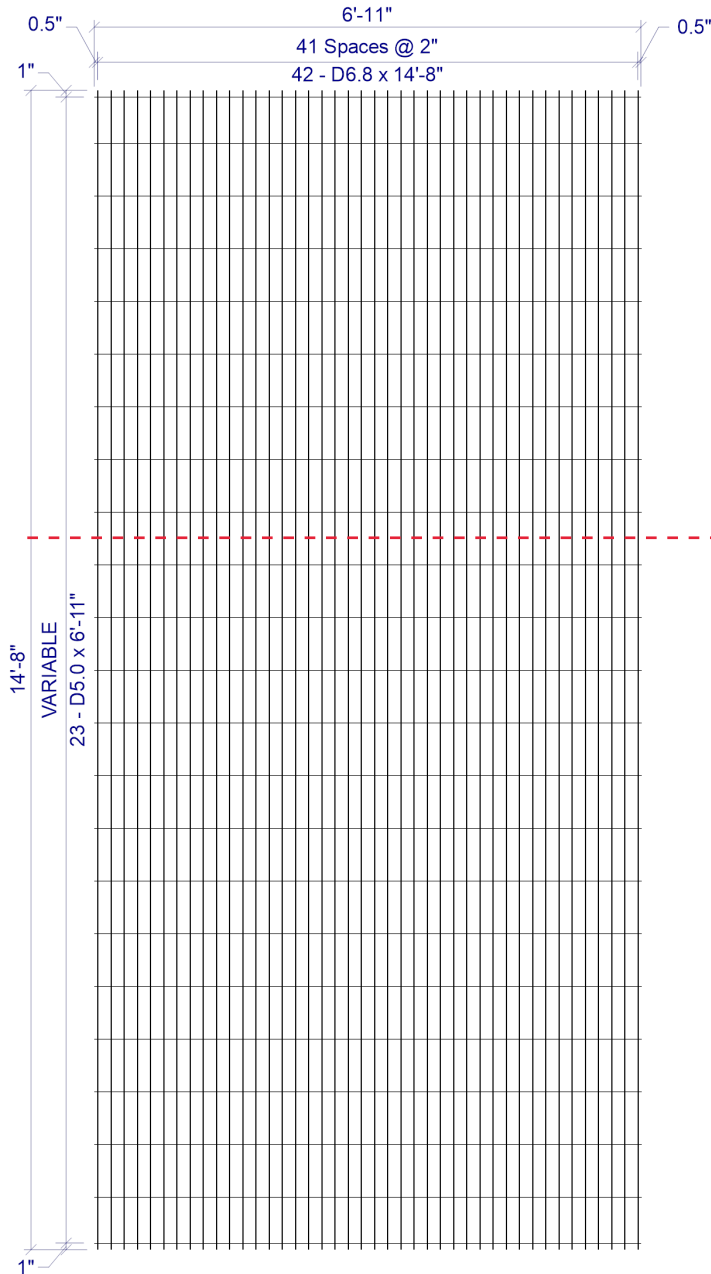
2 x VAR D6.8 / D5.0 (GRADE 75) 82(+0.5, +0.5) x 14'-5" (1, 1)
 VAR = 1" OH, 1@4", 20@8", 1@7", 1" OH

APPROVED _____

SHEET DESIGN



Concrete Reinforcements, Inc.
 3830 Presidents Way • Jacksonville, FL 32220
 Phone: 904-520-7100 • Fax: 904-520-7101



BEND LINE

CUSTOMER American Concrete
 PROJECT F22-4384 - Drawings - 15x10 Woodland - American Concrete - 2-20-2023
 LOCATION Veazie, ME
 DATE 02-20-2023 MARK NUMBER B2/A400 (-02)

L.W.SPACED 2"
 C.W.SPACED VAR
 L.W.1 SIZE D6.8
 L.W.2 SIZE N/A
 C.W.SIZE D5.0
 WIDTH 6'-11"
 LENGTH 14'-8"
 OH.LEFT 0.5"
 OH.RIGHT 0.5"
 OH.TOP 1"
 OH.BOTTOM 1"
 YIELD 75,000psi
 BENT -
 CUT -
 ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	42	N/A
SIZE	D6.8	N/A	D5.0
LENGTH	14'-8"	-	6'-11"
W.T./SHEET			
SHEET W.T.	173.70#		
QUANTITY	28		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS/CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:
 BEND DIMS: WALL=69", SLAB=107"

2 x VAR D6.8 / D5.0 (GRADE 75) 82(+0.5, +0.5) x 14'-8" (1, 1)
 VAR = 1" OH, 1@7", 20@8", 1@7", 1" OH

APPROVED _____

SHEET DESIGN



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 Phone: 904-520-7100 • Fax: 904-520-7101

CUSTOMER American Concrete
 PROJECT F22-4384 - Drawings - 15x10 Woodland - American Concrete - 2-20-2023

LOCATION Veazie, ME

DATE 02-20-2023 MARK NUMBER B1 (-03)

L.W.SPACE VAR

C.W.SPACE 8"

L.W.1 SIZE D8.0

L.W.2 SIZE N/A

C.W.SIZE D5.0

WIDTH 6'-11"

LENGTH 5'-4"

OH.LEFT 0.5"

OH.RIGHT 0.5"

OH.TOP 7"

OH.BOTTOM 1"

YIELD 75,000psi

BENT -

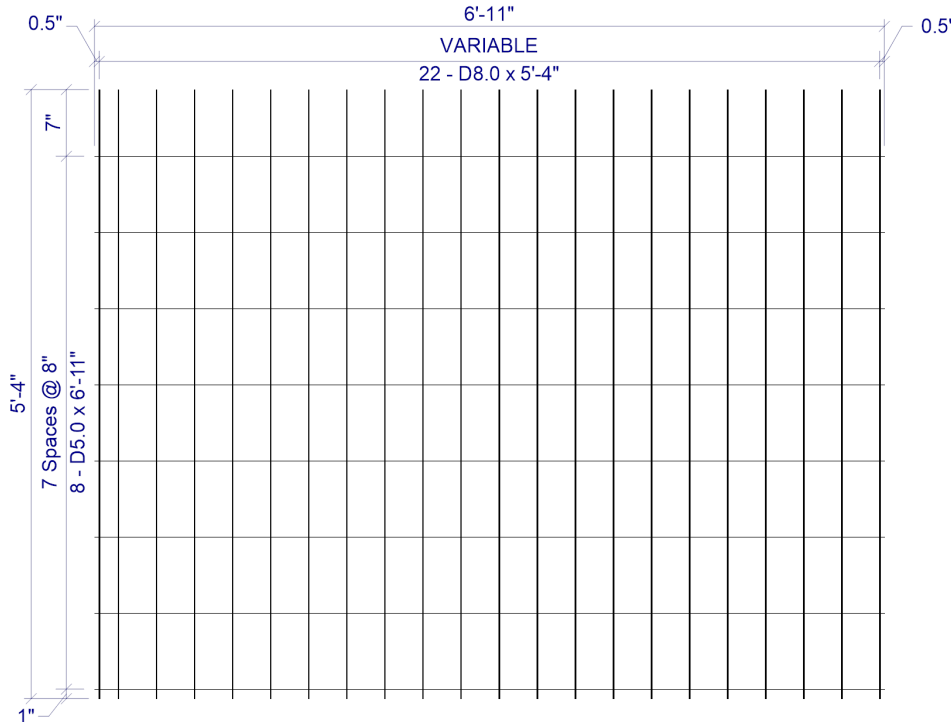
CUT -

ROLL -

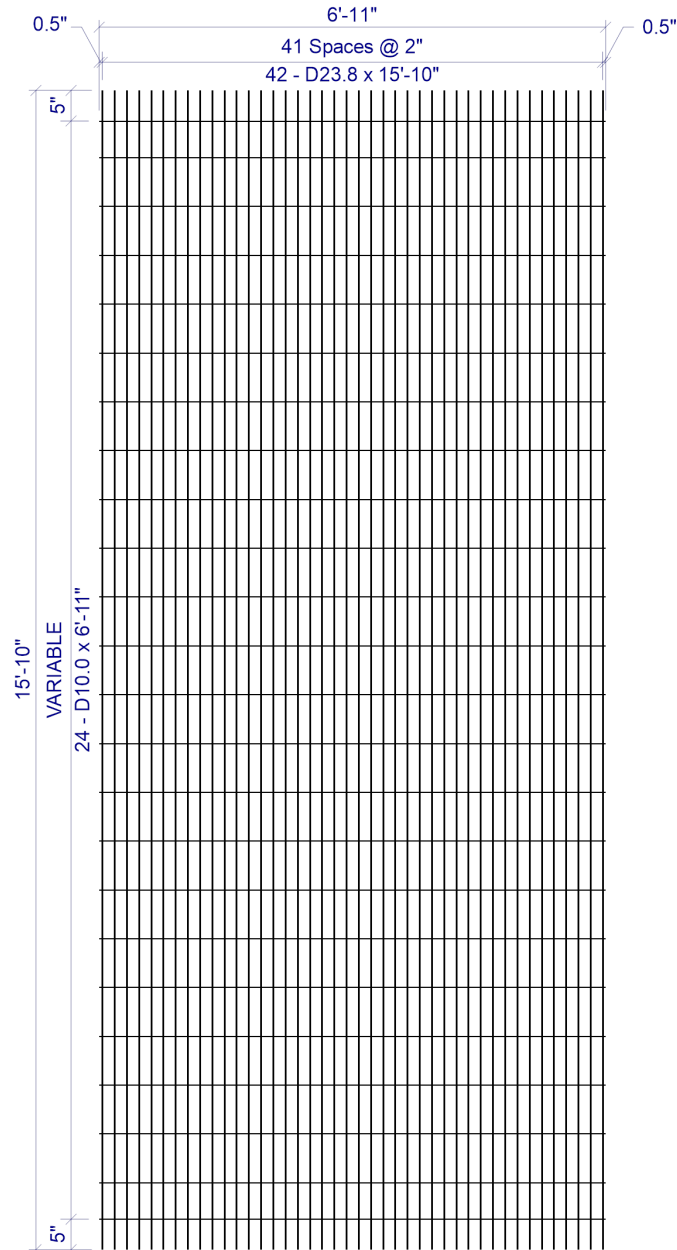
W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	22	N/A
SIZE	D8.0	N/A	D5.0
LENGTH	5'-4"	-	6'-11"
W.T./SHEET			
SHEET W.T.	41.40#		
QUANTITY	56		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS/CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:

APPROVED _____



VAR x 8 D8.0 / D5.0 (GRADE 75) 82(+0.5, +0.5) x 5'-4" (7, 1)
 VAR = 0.5" OH, 1@2", 20@4", 0.5" OH



2 x VAR D23.8 / D10.0 (GRADE 75) 82(+0.5, +0.5) x 15'-10"(5, 5)
VAR = 5" OH, 1@6", 21@8", 1@6", 5" OH

SHEET DESIGN



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Phone: 904-520-7100 • Fax: 904-520-7101

CUSTOMER American Concrete
PROJECT F22-4384 - Drawings - 15x10 Woodland - American Concrete - 2-20-2023
LOCATION Veazie, ME
DATE 02-20-2023 MARK NUMBER A100 (-04)

L.W.SPACE 2"
C.W.SPACE VAR
L.W.1 SIZE D23.8
L.W.2 SIZE N/A
C.W.SIZE D10.0
WIDTH 6'-11"
LENGTH 15'-10"
OH.LEFT 0.5"
OH.RIGHT 0.5"
OH.TOP 5"
OH.BOTTOM 5"
YIELD 75,000psi
BENT -
CUT -
ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	42	N/A
SIZE	D23.8	N/A	D10.0
LENGTH	15'-10"	-	6'-11"
W.T./SHEET			
SHEET W.T.	610.40#		
QUANTITY	14		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS/CSF			
Ast/LF			
ST.DENSITY			

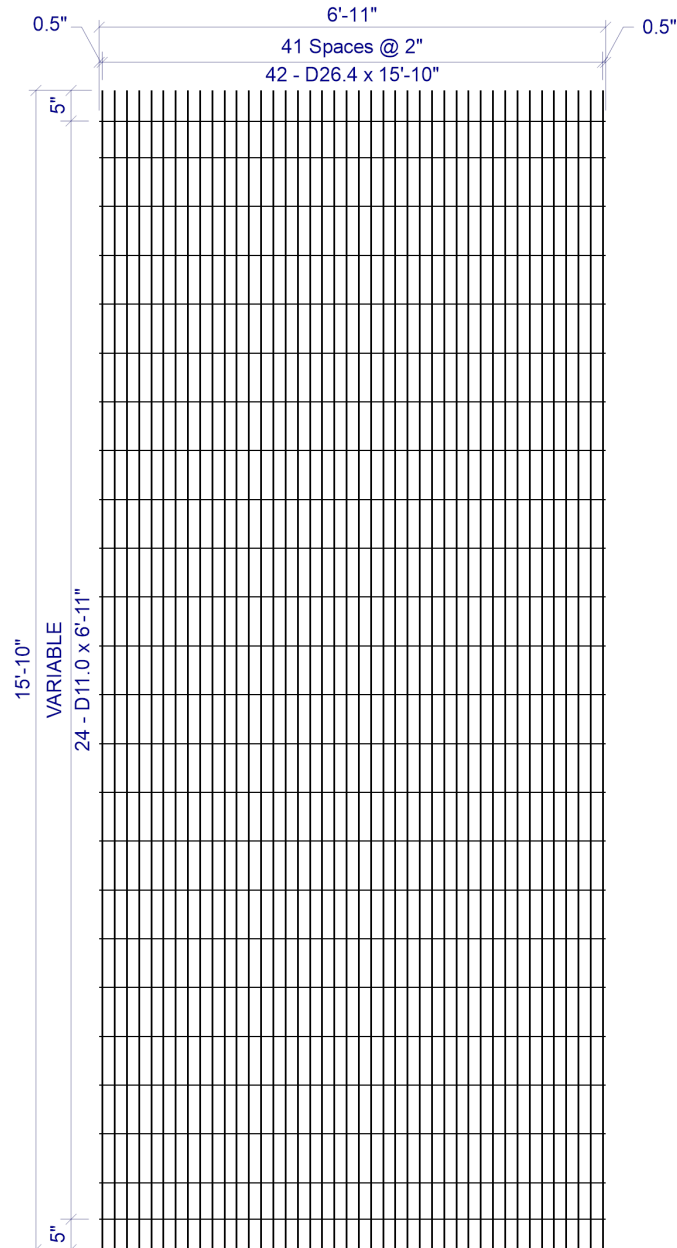
SPECIAL REMARKS:

APPROVED _____

SHEET DESIGN



Concrete Reinforcements, Inc.
 3830 Presidents Way • Jacksonville, FL 32220
 Phone: 904-520-7100 • Fax: 904-520-7101



2 x VAR D26.4 / D11.0 (GRADE 75) 82(+0.5, +0.5) x 15'-10" (5, 5)
 VAR = 5" OH, 1@6", 21@8", 1@6", 5" OH

CUSTOMER American Concrete
 PROJECT F22-4384 - Drawings - 15x10 Woodland - American Concrete - 2-20-2023
 LOCATION Veazie, ME
 DATE 02-20-2023 MARK NUMBER A200 (-05)

L.W.SPACE 2"
 C.W.SPACE VAR
 L.W.1 SIZE D26.4
 L.W.2 SIZE N/A
 C.W.SIZE D11.0
 WIDTH 6'-11"
 LENGTH 15'-10"
 OH.LEFT 0.5"
 OH.RIGHT 0.5"
 OH.TOP 5"
 OH.BOTTOM 5"
 YIELD 75,000psi
 BENT -
 CUT -
 ROLL -

W I R E S	LINE WIRE 1	LINE WIRE 2	CROSS WIRE
	NO. PER SHEET	42	N/A
SIZE	D26.4	N/A	D11.0
LENGTH	15'-10"	-	6'-11"
W.T./SHEET			
SHEET W.T.	700.90#		
QUANTITY	14		
SUB TOTAL WEIGHT			
TOTAL WEIGHT			
S.F./SHEET			
LBS/CSF			
Ast/LF			
ST.DENSITY			

SPECIAL REMARKS:

APPROVED _____