

Job Name: 26-2722 863539 South Oldham High School

Job Location: Crestwood, KY

Contractor: Contech Engineering Solutions

Plant: Beaver Dam

7/8/2026 9:14:25 AM

Tech: S. Felletter

PC: C. Goff

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: 30-CS-12

P4 MH144RSVF

MH RISER Custom Ht T/G

P6) 24" - CASTING HEIGHT - 4"

P5) 144" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18"

P4) 144" - MH RISER Custom Ht T/G - 50"

P3) 144" - MH RISER Custom Ht T/G - 69"

P2) 144" - MH RISER T/G - 48"

P1) 144" - MH MONOBASE 14F, Custom Ht T/n - 24"

1) ASSEMBLY REQUIRED - BRACKETS ONLY

1) CVSTENCILING

4) 144" - Conseal CS-102 1.00"

1) 24" - Conseal CS-102 1.00"

1) Hole - 36

1) Hole - 24

2) Hole - 20

1) Hole - 8

0 lb

23623 lb

25664 lb

36004 lb

25826 lb

39578 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 150696 lb

Structure Notes:

4" CASTING BY OTHERS

LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE

ICAST TO INSTALL BRACKETS ONLY

CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE

Rim: 754.15'

Rim to Invert: 9.06'

Slack: 3.756"

Sump: 108.036"

Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1										
Invert 2	749.99'	148°	219.562"	18" ADS N-12	22"	Hole 24	24"	24.113"	16.836"	0"
Invert 3	750.4'	110°	163.188"	15" ADS N-12	18"	Hole 20	20"	20.065"	22.256"	0"
Invert 4	750.11'	60°	89.012"	15" HDPE	17.6"	Hole 20	20"	20.065"	18.776"	0"
Invert 5	751.353'	186°	275.937"	4" HDPE	4.8"	Hole 8	8"	8.004"	34.192"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

Invert: 3
Degree: 110°
Horz: 138.23"
Hole: 20"
Up(⌋): 22.256"

Invert: 2
Degree: 148°
Horz: 185.982"
Hole: 24"
Up(⌋): 16.836"

Invert: 5
Degree: 186°
Horz: 233.734"
Hole: 8"
Up(⌋): 34.192"

Invert: 4
Degree: 60°
Horz: 75.398"
Hole: 20"
Up(⌋): 18.776"

+ 0°

INSIDE WALL DIMENSIONS

0°

75.398"

138.23"

185.982"

233.734"

270°

360°

EXT

50"

(P4)

4

3

2

5

18.776"

22.256"

16.836"

34.192"

Coating (Int):

Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 13"
Floor Height: 0"

Height (Int): 50"
Height (Ext): 50"

Weight (Net): 25664 lb
Volume (Net): 6.56cu.yd

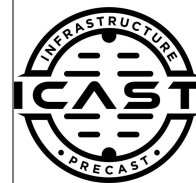
Job Name: 26-3091 907597 Ives Field Rec Enhance
Job Location: Shelby Twp, MI
Contractor: Contech Engineering Solutions

Plant: Beaver Dam

7/20/2026 9:18:10 AM

Tech: S. Felletter

PC: C. Goff



Structure ID: 10-CS-3

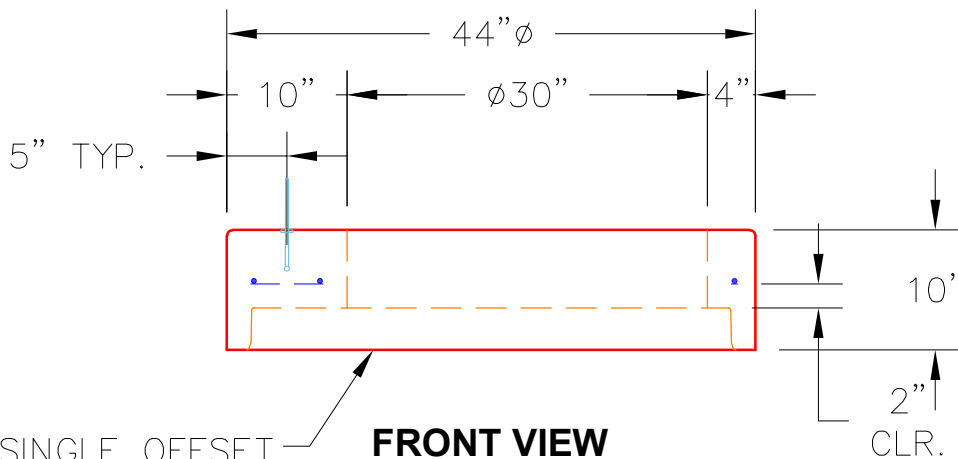
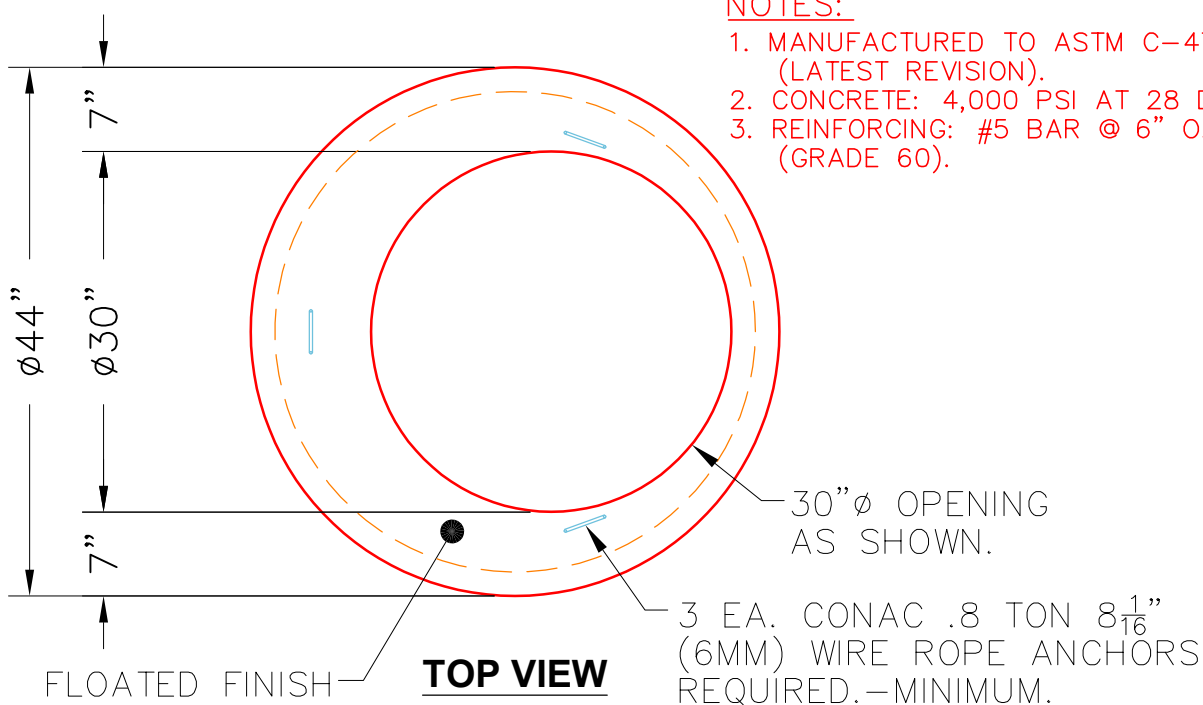
P3 MH036LD10-30ECC

MH FLAT LID w/30in ECC Hole F/G

P4) 30" - CASTING HEIGHT - 4"
P3) 36" - MH FLAT LID w/30in ECC Hole F/G - 10"
P2) 36" - MH RISER T/G - 72"
P1) 36" - MH BASE T/n - 12"
1) ASSEMBLY REQUIRED
1) CVSTENCILING
2) 36" - Conseal CS-102 1.00"
2) Hole - 16

0 lb
683 lb
2898 lb
1272 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 4852 lb

Structure Notes:
4" CASTING BY OTHERS
LIFTING ANCHORS TO BE INSTALLED
ON THE OUTSIDE OF THE STRUCTURE
ICAST TO INSTALL THE INTERNALS
CONTECH'S LOGO AS WELL AS THE
INLET AND OUTLET MUST BE
STENCILED ONTO THE STRUCTURE



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 4"

Height (Ext): 10"

Weight (Net): 683 lb
Volume (Net): 0.17cu.yd

Job Name: 26-1655 Sanitary Sewer Improvements Project
Job Location: Newburgh, IN
Contractor: S.A.M.M Trucking & Excavating, Inc

Plant: Beaver Dam

7/24/2026 11:46:59 AM

Tech: S. Felletter

PC: M. Sullivan



Structure ID: 2 SS-MH

P3 MH048CN36-SCDARED

ECC CONE w/ 24" HOLE NO STEPS, w/ConBlock-CDA Red F/G

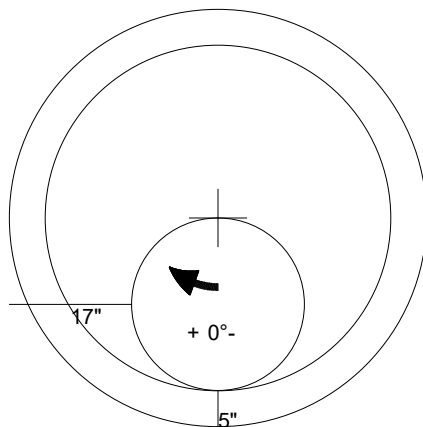
P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"
P3) 48" - ECC CONE w/ 24" HOLE NO STEPS, w/ConBlock-CDA Red F/G - 36"
P2) 48" - MH RISER w/ConBlock-CDA Red NO STEPS T/G - 60"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlockMIC - FULL HEIGHT
1) CASTING - HOE MC-315 Self Seal F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
2) Kor-N-Seal2 - S206-18L

0 lb
202 lb
2251 lb
4192 lb
3627 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
12 lb

11982 lb

Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 SELF SEAL F/C "SANITARY").
5. NO STEPS.
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total:



48" - ECC CONE w/ 24" HOLE NO STEPS, w/ConBlock-CDA Red F/G - 36" - (P3)



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 36"

Weight (Net): 2251 lb
Volume (Net): 0.57cu.yd

Job Name: 25-1145B - 7959 Poplar Creek
Job Location: Nashville, TN 37221
Contractor: Elite Constructors, Inc.

Plant: Beaver Dam, KY
7/22/2026 12:17:10 PM

Tech: J. Horsley
PC: A. Chambers



Structure ID: SAN-A2

P1 MH048BA24CDARED

MH BASE w/DROP/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 48"
P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 24"

- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - JBS 1150 F/C SANITARY
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 1) PSX - 12-08 NYLO
- 1) Drop Elbow - 8" PVC
- 1) Drop Tee - 8" PVC
- 8) MH Step ML-10-TDS-NCR - 10"

0 lb
270 lb
1297 lb
3329 lb
2935 lb
0 lb
0 lb
1440 lb
250 lb
0 lb
0 lb
8 lb
0 lb
0 lb
0 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (JBS 1150 F/C "SAN")
5. EXTERIOR ROP ASSEMBLY AT 203° BY ICAST.

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

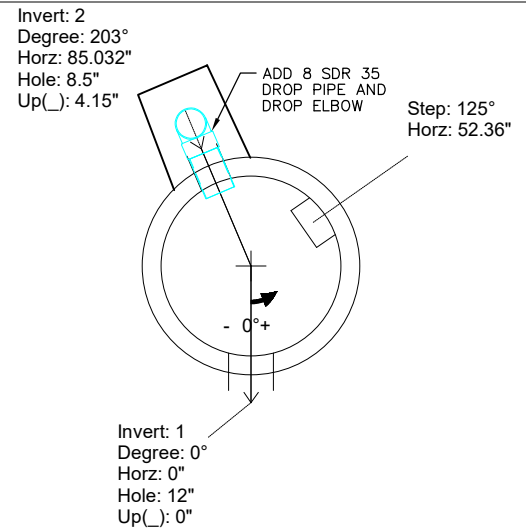
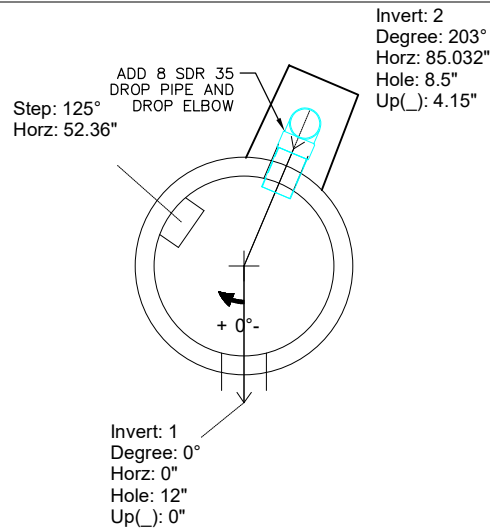
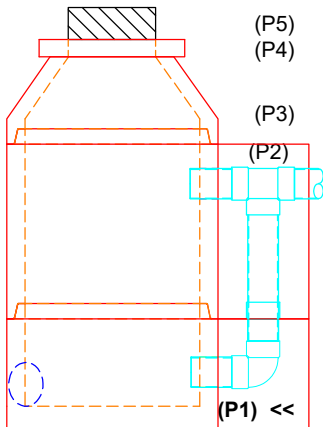
Structure Total: 9529 lb
Step Position: 125°

Rim: 611.15' Rim to Invert: 8.8' Slack: 0.6" Sump: 2"

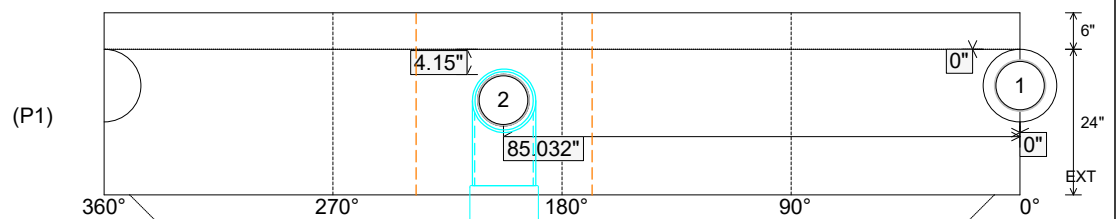
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	602.35'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	602.55'	203°	102.748"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	4.15"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 24"
Height (Ext): 30"

Weight (Net): 2935 lb
Volume (Net): 0.75cu.yd

Job Name: 25-1145B - 7959 Poplar Creek
Job Location: Nashville, TN 37221
Contractor: Elite Constructors, Inc.

Plant: Beaver Dam, KY
7/22/2026 12:17:10 PM

Tech: J. Horsley
PC: A. Chambers



Structure ID: SAN-A2

P1 MH048BA24CDARED

MH BASE w/DROP/ConBlock-CDA Red T/n

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 48"
P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 24"
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) **48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT**
1) CASTING - JBS 1150 F/C SANITARY
2) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
1) Drop Elbow - 8" PVC
1) Drop Tee - 8" PVC
8) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (JBS 1150 F/C "SAN")
5. EXTERIOR ROP ASSEMBLY AT 203° BY ICAST.

REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

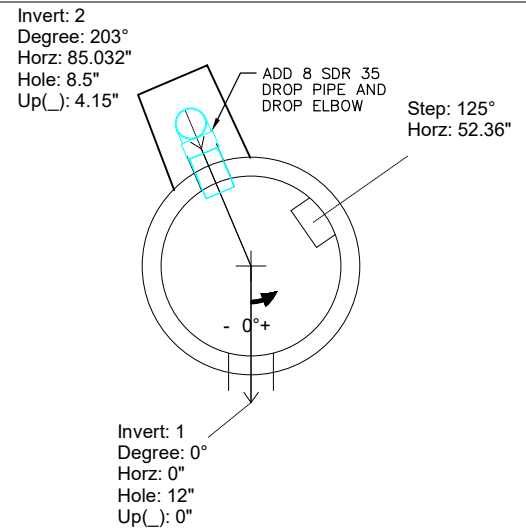
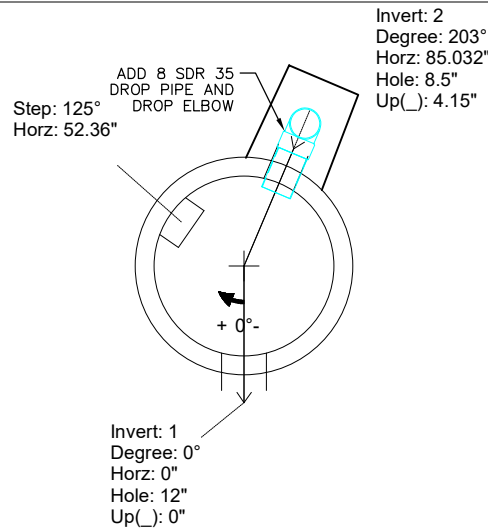
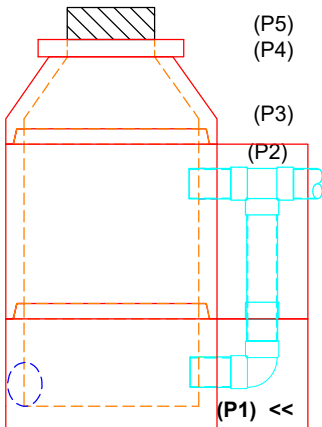
**Invert channel drawing
Full height invert**

Rim: 611.15' Rim to Invert: 8.8' Slack: 0.6" Sump: 2" Structure Total: 9529 lb
Step Position: 125°

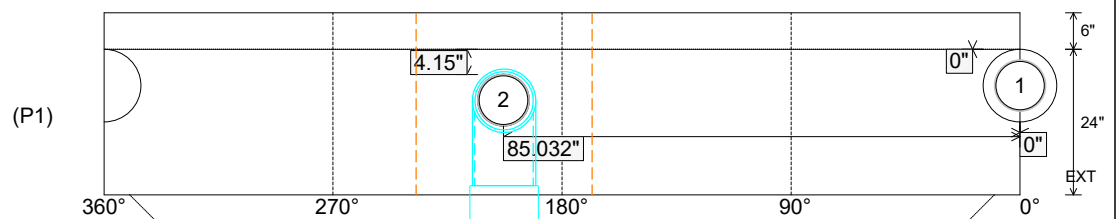
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	602.35'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	602.55'	203°	102.748"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	4.15"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 24"
Height (Ext): 30"

Weight (Net): 2935 lb
Volume (Net): 0.75cu.yd

Job Name: 25-2541 WARTRACE CREEK INTERCEPTOR Job Location: Springfield, TN Contractor: Cumberland Pipeline LLC					Plant: Beaver Dam		Tech: C. Russ			
					8/7/2025 12:50:29 PM		PC: E. Bradley			
Structure ID: SF-106 R EMAKE										
P1 MH048BAVFX					MH BASE Custom Ht, w/XYPEX T/n					
P5) 24" - CASTING HEIGHT - 6" P4) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 24" P3) 48" - MH RISER w/XYPEX T/G - 60" P2) 48" - MH RISER w/XYPEX T/G - 60" P1) 48" - MH BASE Custom Ht, w/XYPEX T/n - 40" 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 3) 48" - DBL 1"x14.5' Butyl (2x) 2) A-Lok - 0820					0 lb 1738 lb 4192 lb 4192 lb 3620 lb 1440 lb 0 lb 0 lb 0 lb 2 lb ----- Structure Total: 15183 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. JBS 1155 "SANITARY" PROVIDED BY ICAST 4. NO STEPS REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 607.12' Rim to Invert: 15.73' Slack: 0.76" Sump: 2" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	591.39'	0°	0"	24" DI	25.75"	A-Lok 0820	27"	28.676"	0.5"	0"
Invert 2	591.39'	190°	96.168"	24" DI	25.75"	A-Lok 0820	27"	28.676"	0.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

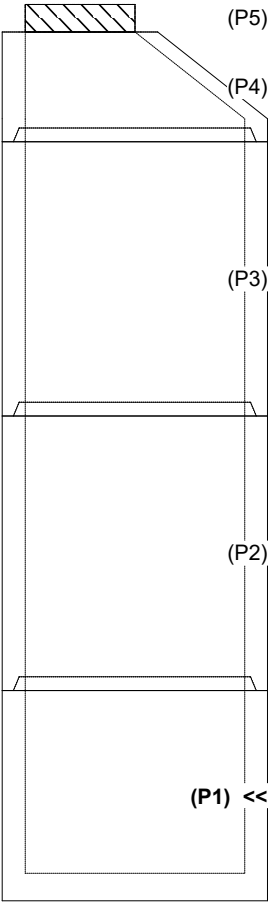
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

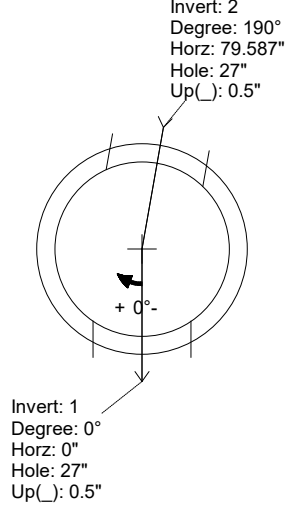
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 40" Height (Ext): 46"	Weight (Net): 3620 lb Volume (Net): 0.92cu.yd
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Job Name: 25-2541 WARTRACE CREEK INTERCEPTOR Job Location: Springfield, TN Contractor: Cumberland Pipeline LLC				Plant: Beaver Dam 8/7/2025 12:50:39 PM		Tech: C. Russ PC: E.Bradley				
Structure ID: SF-106 R EMAKE										
P1 MH048BAVFX				MH BASE Custom Ht, w/XYPEX T/n						
P5) 24" - CASTING HEIGHT - 6" P4) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 24" P3) 48" - MH RISER w/XYPEX T/G - 60" P2) 48" - MH RISER w/XYPEX T/G - 60" P1) 48" - MH BASE Custom Ht, w/XYPEX T/n - 40" 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 3) 48" - DBL 1"x14.5' Butyl (2x) 2) A-Lok - 0820				0 lb 1738 lb 4192 lb 4192 lb 3620 lb 1440 lb 0 lb 0 lb 0 lb 2 lb ----- Structure Total: 15183 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. JBS 1155 "SANITARY" PROVIDED BY ICAST 4. NO STEPS REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 607.12' Rim to Invert: 15.73' Slack: 0.76" Sump: 2" Step Position:				INVERT						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	591.39'	0°	0"	24" DI	25.75"	A-Lok 0820	27"	28.676"	0.5"	0"
Invert 2	591.39'	190°	96.168"	24" DI	25.75"	A-Lok 0820	27"	28.676"	0.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



(P5)
(P4)
(P3)
(P2)
(P1) <<

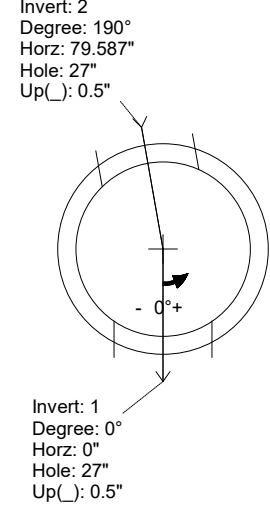
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
Degree: 190°
Horz: 79.587"
Hole: 27"
Up(): 0.5"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 27"
Up(): 0.5"

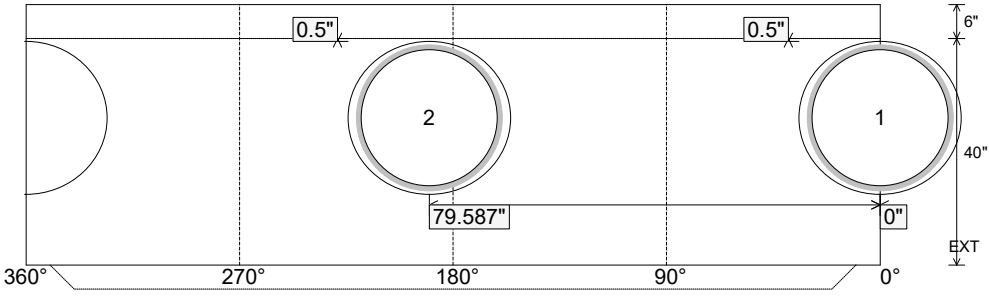
UPSIDE-DOWN VIEW (int. dimensions)



Invert: 2
Degree: 190°
Horz: 79.587"
Hole: 27"
Up(): 0.5"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 27"
Up(): 0.5"

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

0.5" 0.5" 6" 40" 0" EXT

79.587" 2

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 40" Height (Ext): 46"	Weight (Net): 3620 lb Volume (Net): 0.92cu.yd
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Job Name: 25-1145B - 7959 Poplar Creek
Job Location: Nashville, TN 37221
Contractor: Elite Constructors, Inc.

Plant: Beaver Dam, KY
7/22/2026 12:17:28 PM

Tech: J. Horsley
PC: A. Chambers



Structure ID: SAN-A2

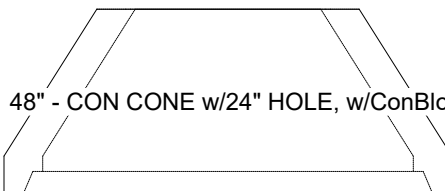
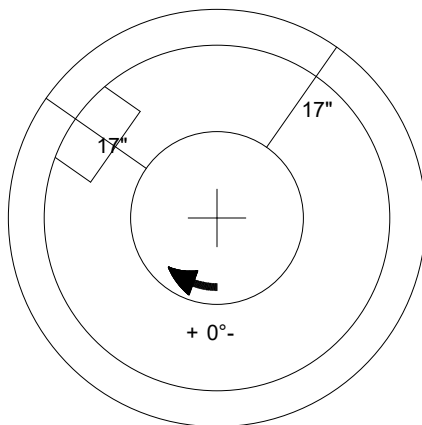
P3 MH048CCN24CDARED

CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 48"
P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 24"
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - JBS 1150 F/C SANITARY
2) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
1) Drop Elbow - 8" PVC
1) Drop Tee - 8" PVC
8) MH Step ML-10-TDS-NCR - 10"

- 0 lb
270 lb
1297 lb
3329 lb
2935 lb
0 lb
0 lb
1440 lb
250 lb
0 lb
0 lb
8 lb
0 lb
0 lb
0 lb
- Structure Notes: .
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (JBS 1150 F/C "SAN")
5. EXTERIOR ROP ASSEMBLY AT 203° BY ICAST.
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total: 9529 lb



48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24" - (P3)

Coating (Int):	Seam Up: Flat	Wall Thickness: 5"	Height (Ext): 24"	Weight (Net): 1297 lb
Coating (Ext):	Seam Dn: Groove			Volume (Net): 0.33cu.yd

Job Name: 25-1145B - 7959 Poplar Creek
Job Location: Nashville, TN 37221
Contractor: Elite Constructors, Inc.

Plant: Beaver Dam, KY
7/22/2026 12:17:11 PM

Tech: J. Horsley
PC: A. Chambers



Structure ID: SAN-A3

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 24"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"

- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - JBS 1150 F/C SANITARY
2) 48" - Con seal CS-102 1.00" (Double)
1) 24" - Con seal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
6) MH Step ML-10-TDS-NCR - 10"

- 0 lb
1297 lb
1677 lb
3378 lb
0 lb
0 lb
1440 lb
250 lb
0 lb
0 lb
8 lb
0 lb
- Structure Notes: .
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (JBS 1150 F/C "SAN")
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

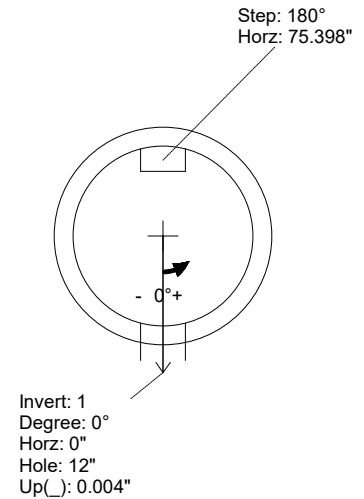
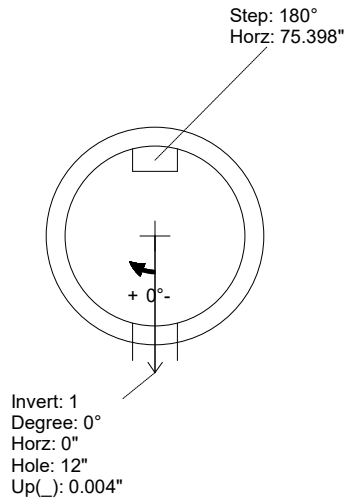
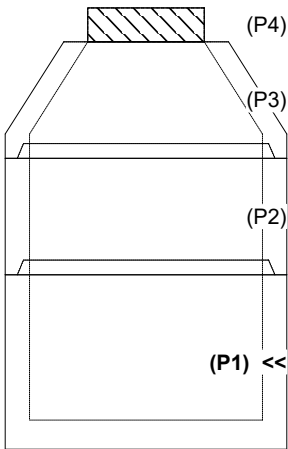
Structure Total: 8050 lb

Rim: 617.65' Rim to Invert: 7' Slack: 1.004" Sump: 2.004" Step Position: 180°

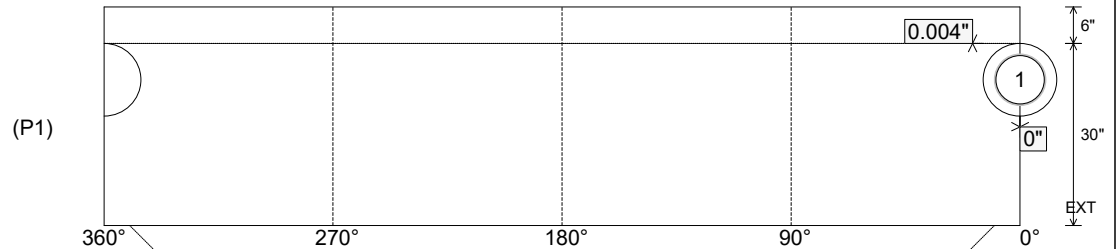
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	610.65'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0.004"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 30"
Height (Ext): 36"

Weight (Net): 3378 lb
Volume (Net): 0.86cu.yd

Job Name: 25-1145B - 7959 Poplar Creek
Job Location: Nashville, TN 37221
Contractor: Elite Constructors, Inc.

Plant: Beaver Dam, KY
7/22/2026 12:17:11 PM

Tech: J. Horsley
PC: A. Chambers



Structure ID: SAN-A3

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 24"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - JBS 1150 F/C SANITARY
2) 48" - Con seal CS-102 1.00" (Double)
1) 24" - Con seal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
6) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (JBS 1150 F/C "SAN")
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total: 8050 lb

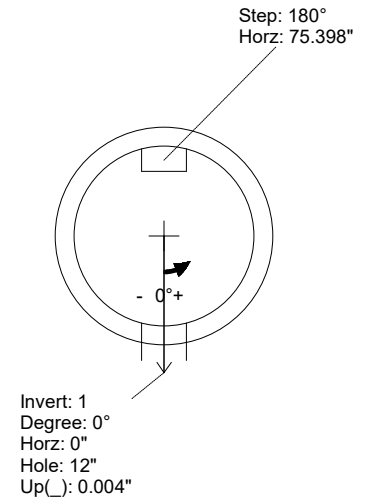
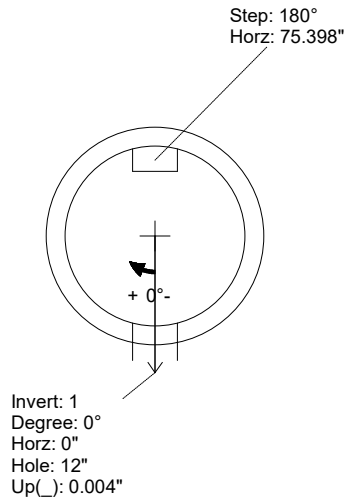
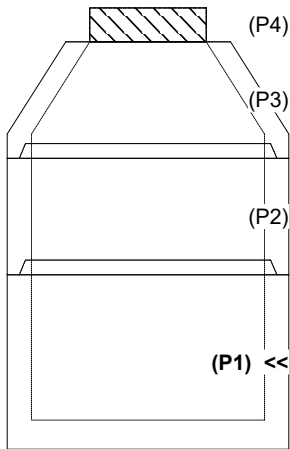
Invert channel drawing
Full height invert

Rim: 617.65' Rim to Invert: 7' Slack: 1.004" Sump: 2.004" Step Position: 180°

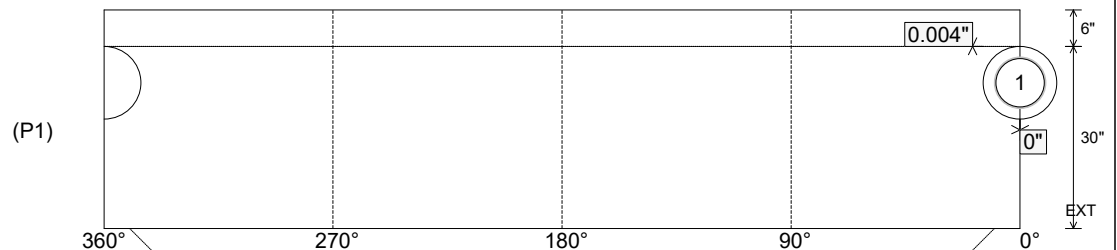
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	610.65'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0.004"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 30"
Height (Ext): 36"

Weight (Net): 3378 lb
Volume (Net): 0.86cu.yd

Job Name: 25-1145B - 7959 Poplar Creek
Job Location: Nashville, TN 37221
Contractor: Elite Constructors, Inc.

Plant: Beaver Dam, KY
7/22/2026 12:19:11 PM

Tech: J. Horsley
PC: A. Chambers



Structure ID: SAN-A3

P2 MH048RS24CDARED

MH RISER w/ConBlock-CDA Red T/G

- P4) 24" - CASTING HEIGHT - 7"
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 24"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - JBS 1150 F/C SANITARY
2) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
6) MH Step ML-10-TDS-NCR - 10"

- Structure Notes: .
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (JBS 1150 F/C "SAN")
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

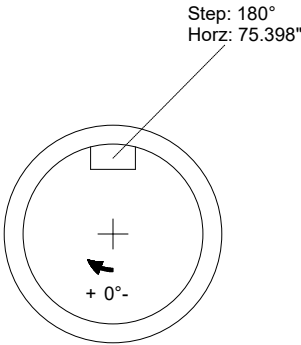
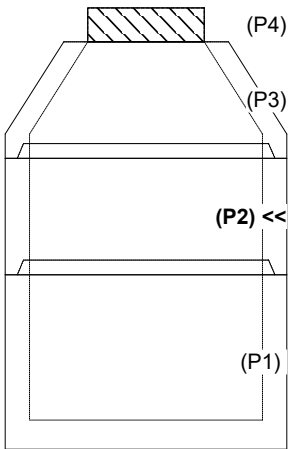
0 lb
1297 lb
1677 lb
3378 lb
0 lb
0 lb
1440 lb
250 lb
0 lb
0 lb
8 lb
0 lb

Structure Total: 8050 lb

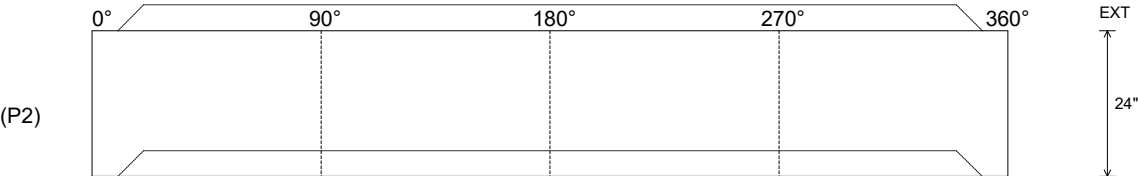
Rim: 617.65' Rim to Invert: 7' Slack: 1.004" Sump: 2.004" Step Position: 180°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Seam Up: Tongue Wall Thickness: 5" Height (Int): 24" Weight (Net): 1677 lb
Coating (Ext): Seam Dn: Groove Floor Height: 0" Height (Ext): 24" Volume (Net): 0.43cu.yd

Job Name: 26-2938 Frank Anderson Lake OCS

Job Location: Falls of Rough, KY

Contractor: Frank Anderson

Plant: Beaver Dam

7/23/2026 8:22:05 AM

Tech: S. Felletter

PC: T. Lewis

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: QL1 ST-OCS

P1MH048BA60MH BASE T/n

P3) CASTING (cast in) - 0

P2) 48" - MH MONOTOP W/ MCS-288-BH CAST IN, Custom Ht F/G - 54"

P1) 48" - MH BASE T/n - 60"

1) This Structure Includes a Cast-in Item

1) CASTING - HOE MCS-288 BEEHIVE

1) 48" - Conseal CS-102 1.00"

1) Hole - 30

4) Horiz Slot n/n - 26"x12"

10) MH Step ML-10-TDS-NCR - 10"

0 lb

3908 lb

5206 lb

0 lb

125 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 9238 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 5,000 PSI AT 28 DAYS.

3. CASTING BY ICAST (HOE MCS-288-BH). CAST-IN.

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..

- RISER/WALLS (As .12)

- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 448.5'

Rim to Invert: 9.5'

Slack: 0"

Sump: 0"

Step Position: 225°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	439'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	-1.9"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

(P3)

(P2)

(P1) <<

Step: 225°

Horz: 94.248"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 30"

Up(): -1.9"

UPSIDE-DOWN VIEW (int. dimenions)

Step: 225°

Horz: 94.248"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 30"

Up(): -1.9"

INSIDE WALL DIMENSIONS

(P1)

360°

270°

180°

90°

0°

6"

60"

EXT

0"

-1.9"

1

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

Height (Int): 60"

Height (Ext): 66"

Weight (Net): 5206 lb

Volume (Net): 1.33cu.yd

Job Name: 26-2938 Frank Anderson Lake OCS
Job Location: Falls of Rough, KY
Contractor: Frank Anderson

Plant: Beaver Dam

7/23/2026 8:23:00 AM

Tech: S. Felletter

PC: T. Lewis



Structure ID: QL1 ST-OCS

P2 MH048MTVF

MH MONOTOP W/ MCS-288-BH CAST IN, Custom Ht F/G

- P3) CASTING (cast in) - 0
P2) 48" - MH MONOTOP W/ MCS-288-BH CAST IN, Custom Ht F/G - 54"
P1) 48" - MH BASE T/n - 60"
- 1) This Structure Includes a Cast-in Item
1) CASTING - HOE MCS-288 BEEHIVE
1) 48" - Conseal CS-102 1.00"
1) Hole - 30
4) Horiz Slot n/n - 26"x12"
10) MH Step ML-10-TDS-NCR - 10"

Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 5,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MCS-288-BH). CAST-IN.

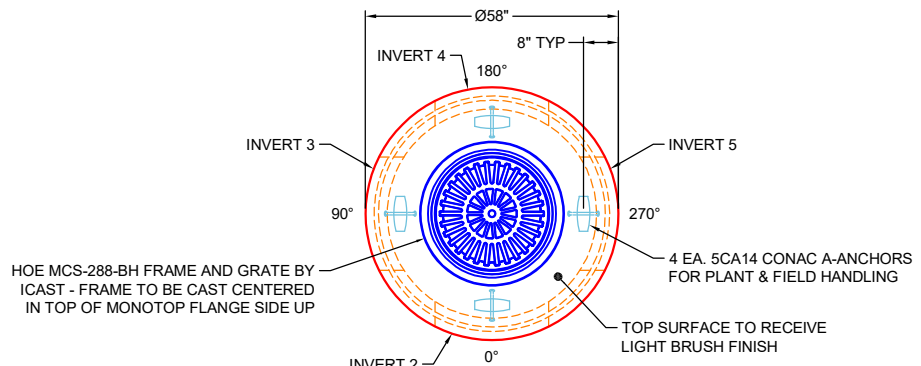
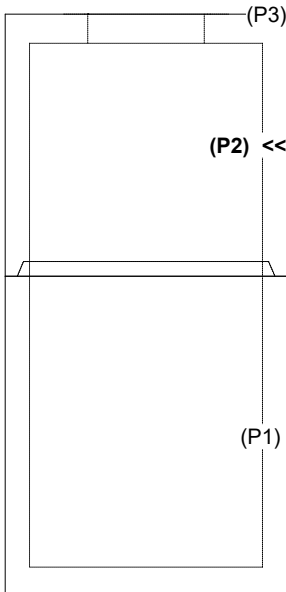
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total: 9238 lb

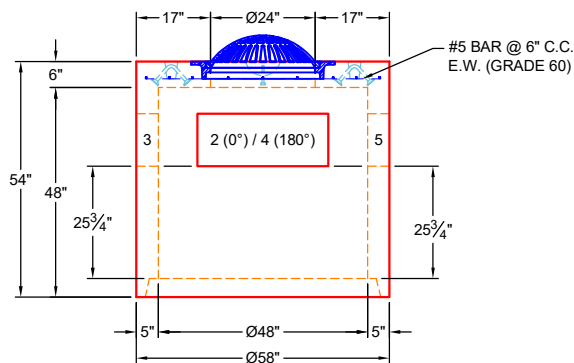
Rim: 448.5' Rim to Invert: 9.5' Slack: 0" Sump: 0" Step Position: 225°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1										
Invert 2	446.5'	0°	0"	26" x 12" Horiz Slot	26" x 12"	Horiz Slot 26"x12"	26" x 12"	27.476"	25.75"	0"
Invert 3	446.5'	90°	45.553"	26" x 12" Horiz Slot	26" x 12"	Horiz Slot 26"x12"	26" x 12"	27.476"	25.75"	0"
Invert 4	446.5'	180°	91.106"	26" x 12" Horiz Slot	26" x 12"	Horiz Slot 26"x12"	26" x 12"	27.476"	25.75"	0"
Invert 5	446.5'	270°	136.659"	26" x 12" Horiz Slot	26" x 12"	Horiz Slot 26"x12"	26" x 12"	27.476"	25.75"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5" Floor Height: 6"	Height (Int): 48" Height (Ext): 54"	Weight (Net): 3908 lb Volume (Net): 1cu.yd
----------------------------------	----------------------------------	--	--	---

Job Name: 26-2217 Kroger COB
Job Location: Bowling Green, KY
Contractor: Stewart Richey

Plant: Beaver Dam

Tech: J. Coppage

7/21/2026 8:12:39 AM

PC: T. Lewis



Structure ID: MH1 ST-MH

P1 MH048BA42

MH BASE

- P4) 24" - CASTING HEIGHT - 7"
P3) 24" - GRADE RING - 4"
P2) 48" - ECC CONE w/ 24" HOLE - 30"
P1) 48" - MH BASE - 42"
1) CASTING - HOE MC-375 F/C Storm
1) 48" - SGL 1"x14.5' Butyl (2x)
2) Hole - 24"
7) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. JR HOE MC-375 F/C PROVIDED BY ICAST.
2. PER ASTM C478 SPECIFICATIONS.
3. CONCRETE = 4,500 PSI AT 28 DAYS.
4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

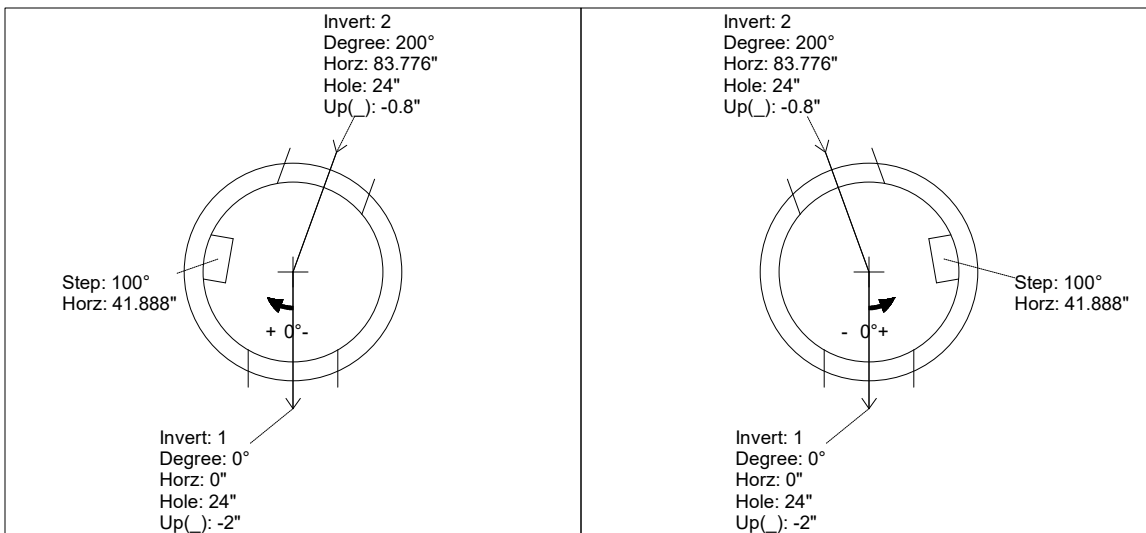
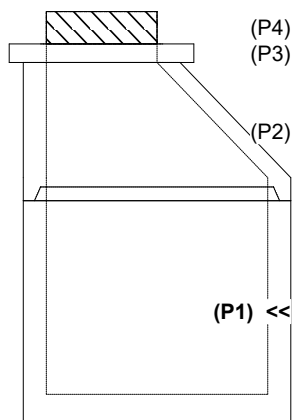
Structure Total: 6461 lb

Rim: 547.82' Rim to Invert: 6.98' Slack: 0.76" Sump: 0" Step Position: 100°

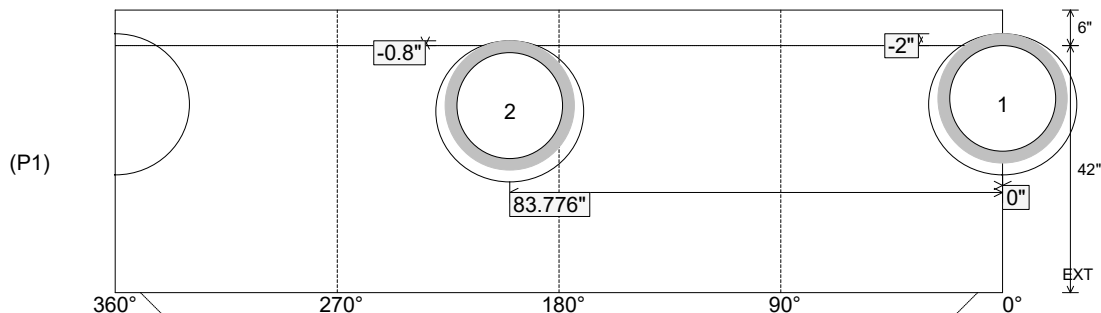
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	540.84'	0°	0"	18" ADS N-12	22"	Hole 24	24"	25.133"	-2"	0"
Invert 2	540.94'	200°	101.229"	18" ADS N-12	22"	Hole 24	24"	25.133"	-0.8"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 42"
Height (Ext): 48"

Weight (Net): 3870 lb
Volume (Net): 0.99cu.yd

Job Name: 26-2975 ADS Dunlap Multifamily
Job Location: Louisville, KY
Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

7/17/2026 12:56:52 PM

Tech: S. Felletter

PC: T. Ryan



Structure ID: QL1

P4 MH048LD12CC

MH FLAT LID w/24" Center Hole F/G

P5) 24" - CASTING HEIGHT - 7"
P4) 48" - MH FLAT LID w/24" Center Hole F/G - 12"
P3) 48" - MH RISER SPECIAL T/G - 54"
P2) 48" - MH RISER T/G - 36"
P1) 48" - MH BASE T/n - 18"
1) ASSEMBLY REQUIRED
1) CASTING - HOE MC-375 F/C Storm
3) 48" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 14

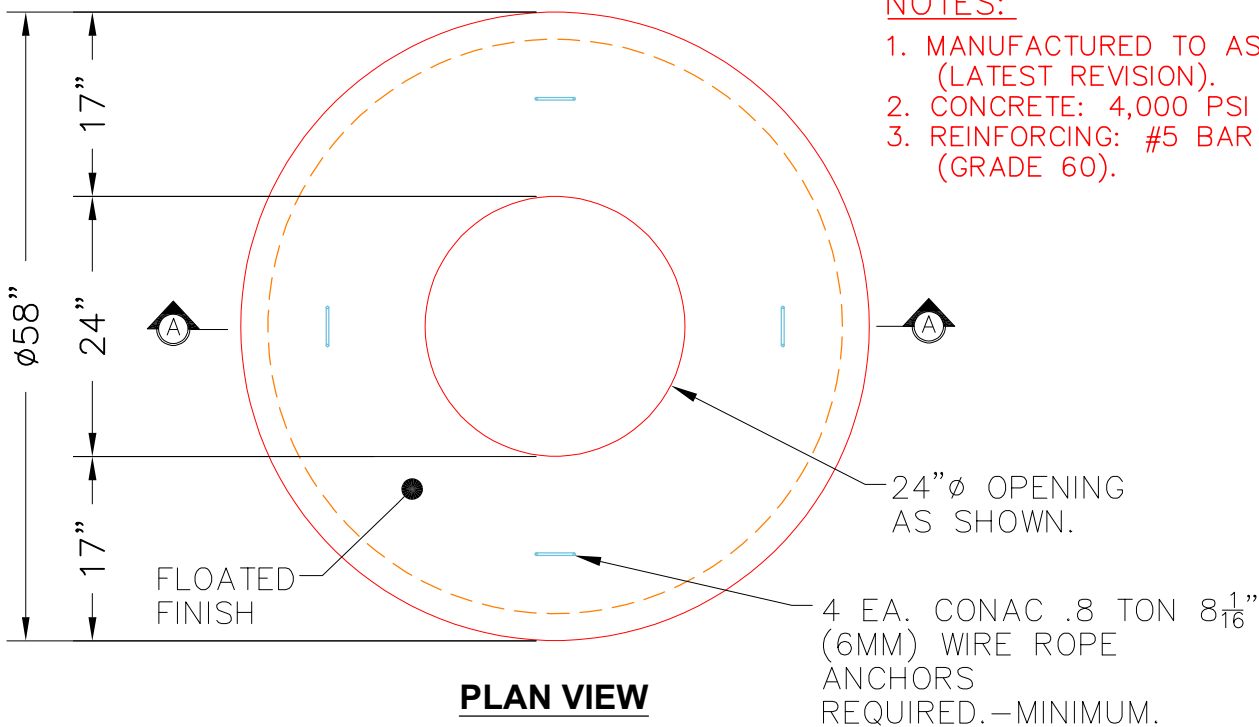
0 lb
1580 lb
3593 lb
2515 lb
2588 lb
0 lb
271 lb
0 lb
0 lb
0 lb
Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-375 F/C "STORM").
4. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total:

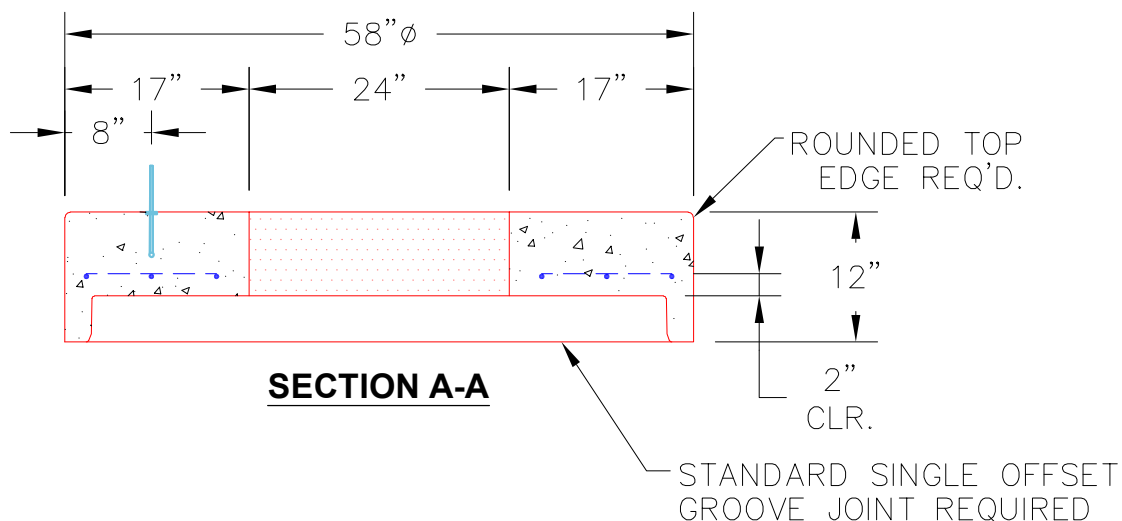
10546 lb

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" C.C. E.W. (GRADE 60).



PLAN VIEW



SECTION A-A

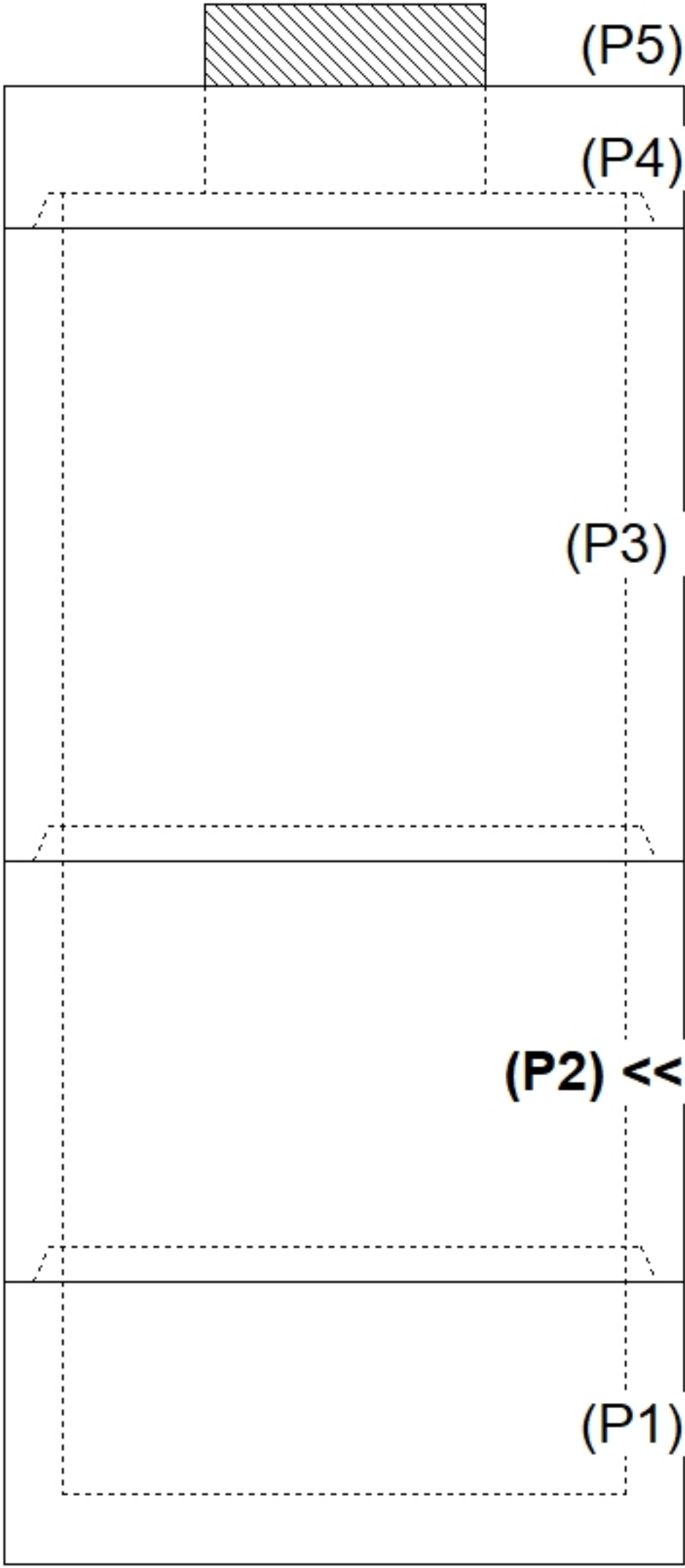
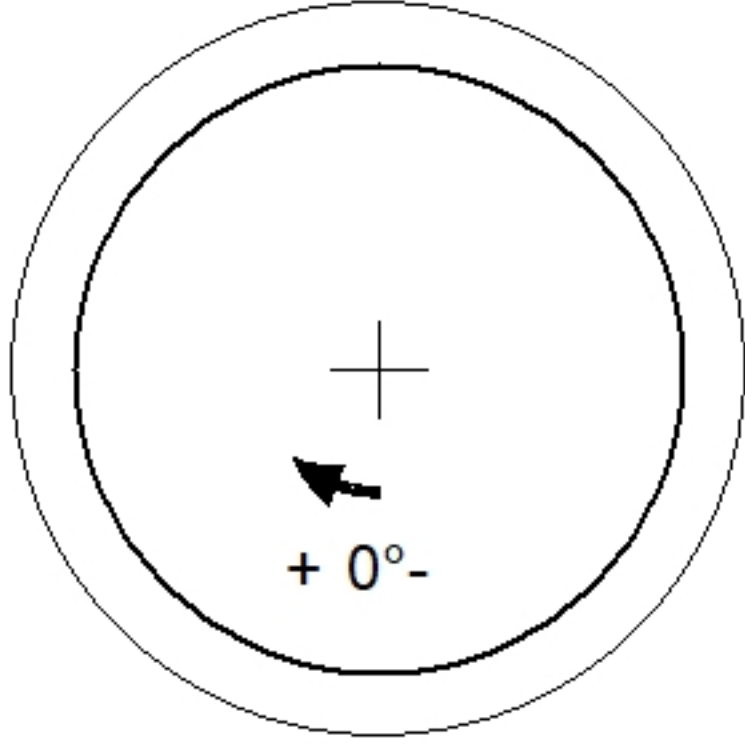
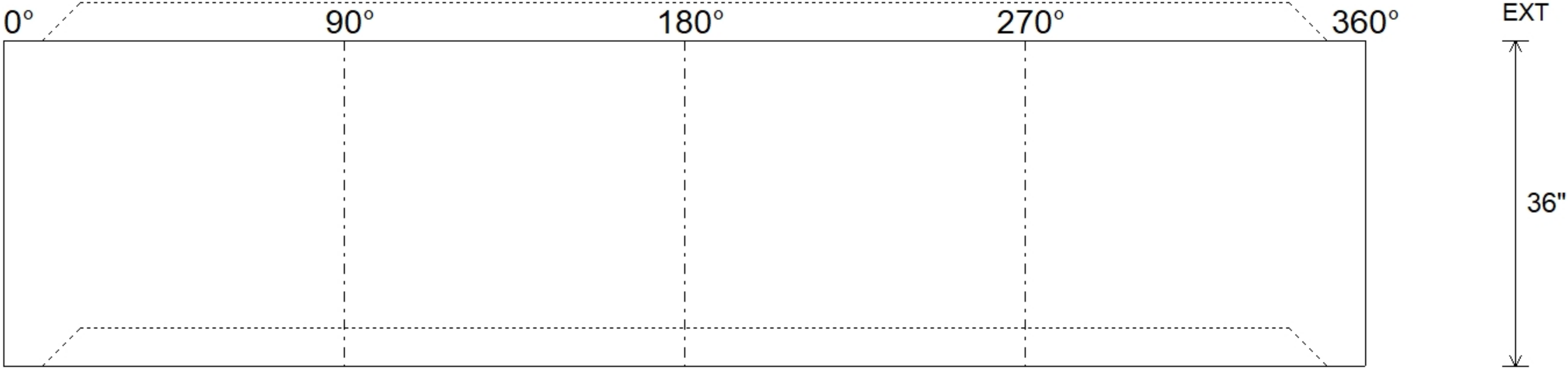
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

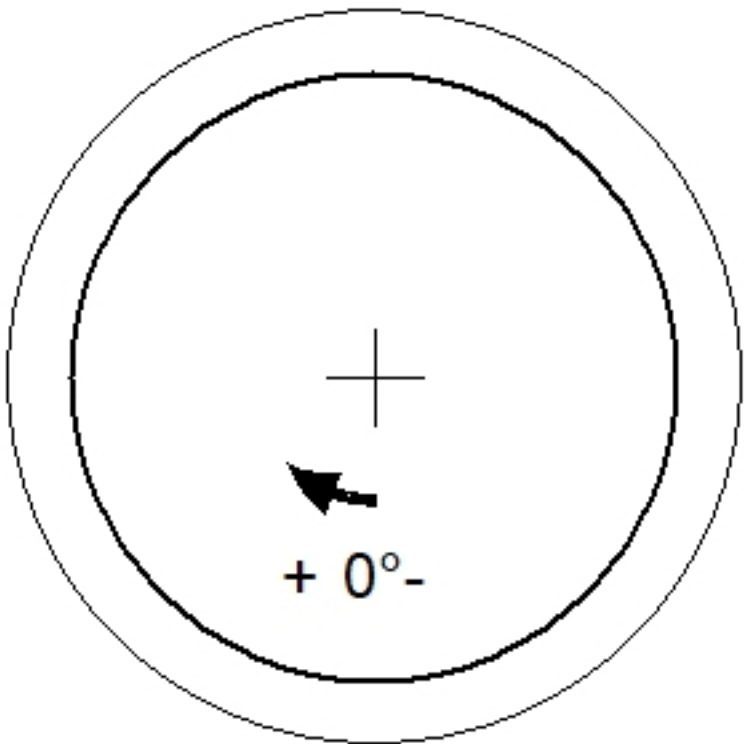
Height (Ext): 12"

Weight (Net): 1580 lb
Volume (Net): 0.39cu.yd

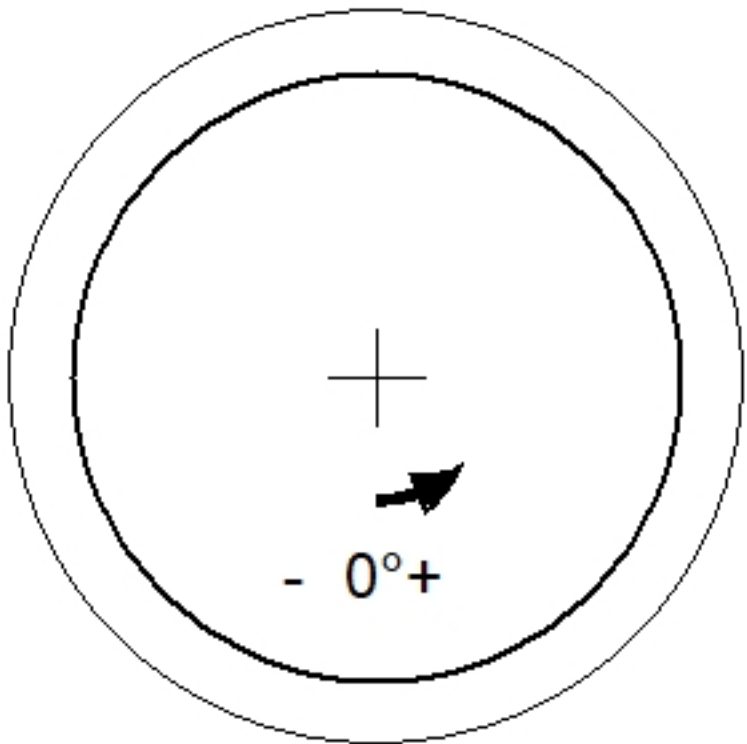
Job Name: 26-2975 ADS Dunlap Multifamily Job Location: Louisville, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 7/17/2026 12:57:04 PM		Tech: S. Felletter PC: T. Ryan						
Structure ID: QL1													
P2		MH048RS36		MH RISER T/G									
P5) 24" - CASTING HEIGHT - 7" P4) 48" - MH FLAT LID w/24" Center Hole F/G - 12" P3) 48" - MH RISER SPECIAL T/G - 54" P2) 48" - MH RISER T/G - 36" P1) 48" - MH BASE T/n - 18" 1) ASSEMBLY REQUIRED 1) CASTING - HOE MC-375 F/C Storm 3) 48" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 14						0 lb 1580 lb 3593 lb 2515 lb 2588 lb 0 lb 271 lb 0 lb 0 lb 0 lb ----- 10546 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-375 F/C "STORM"). 4. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY . REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.					
Rim: 636.88' Rim to Invert: 3.83' Slack: -0.04" Sump: 81" Step Position:													
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1													
Invert 2													
Invert 3													
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													
RIGHT-SIDE UP VIEW (int. dimensions)													
													
		INSIDE WALL DIMENSIONS											
													
Coating (Int): Coating (Ext):				Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 5" Floor Height: 0"		Height (Int): 36" Height (Ext): 36"		Weight (Net): 2515 lb Volume (Net): 0.64cu.yd			

Job Name: 26-2975 ADS Dunlap Multifamily Job Location: Louisville, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 7/17/2026 12:56:12 PM		Tech: S. Felletter PC: T. Ryan						
Structure ID: QL1													
P1		MH048BA18		MH BASE T/n									
P5) 24" - CASTING HEIGHT - 7" P4) 48" - MH FLAT LID w/24" Center Hole F/G - 12" P3) 48" - MH RISER SPECIAL T/G - 54" P2) 48" - MH RISER T/G - 36" P1) 48" - MH BASE T/n - 18" 1) ASSEMBLY REQUIRED 1) CASTING - HOE MC-375 F/C Storm 3) 48" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 14						0 lb 1580 lb 3593 lb 2515 lb 2588 lb 0 lb 271 lb 0 lb 0 lb 0 lb ----- 10546 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-375 F/C "STORM"). 4. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY . REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.					
Rim: 636.88'		Rim to Invert: 3.83'		Slack: -0.04"		Sump: 81"		Step Position:					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1													
Invert 2													
Invert 3													
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													
(P5) (P4) (P3) (P2) (P1) <<													

RIGHT-SIDE UP VIEW (int. dimensions)

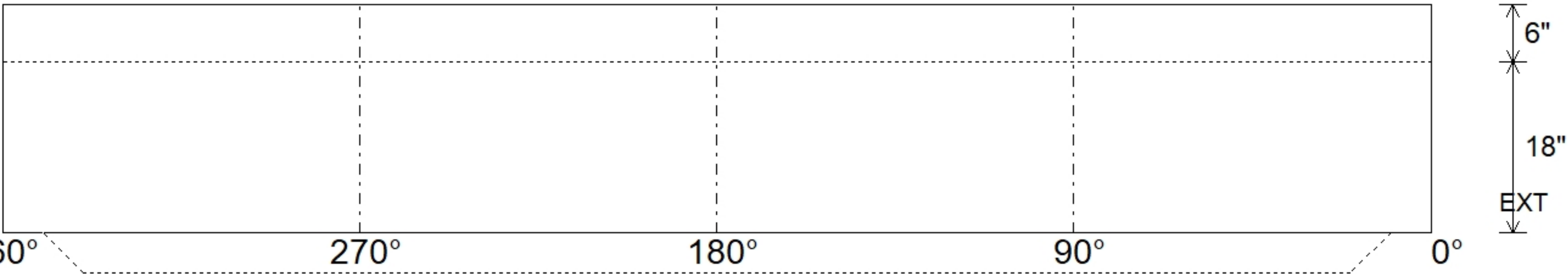


UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS

(P1)



Job Name: 26-2975 ADS Dunlap Multifamily
Job Location: Louisville, KY
Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

7/17/2026 12:57:13 PM

Tech: S. Felletter

PC: T. Ryan



Structure ID: QL1

P3 MH048RS54S

MH RISER SPECIAL T/G

P5) 24" - CASTING HEIGHT - 7"
P4) 48" - MH FLAT LID w/24" Center Hole F/G - 12"
P3) 48" - MH RISER SPECIAL T/G - 54"
P2) 48" - MH RISER T/G - 36"
P1) 48" - MH BASE T/n - 18"
1) ASSEMBLY REQUIRED
1) CASTING - HOE MC-375 F/C Storm
3) 48" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 14"

0 lb
1580 lb
3593 lb
2515 lb
2588 lb
0 lb
271 lb
0 lb
0 lb
0 lb
Structure Total: 10546 lb

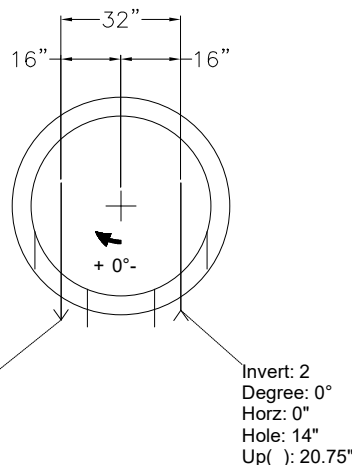
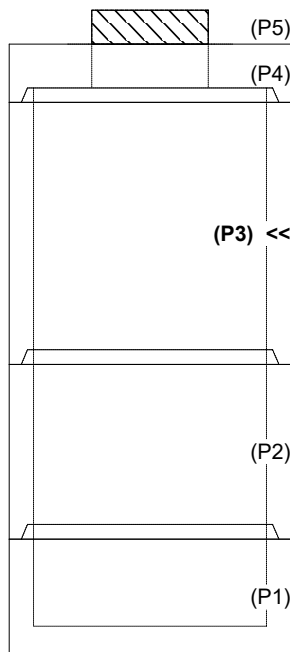
Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-375 F/C "STORM").
4. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY

REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

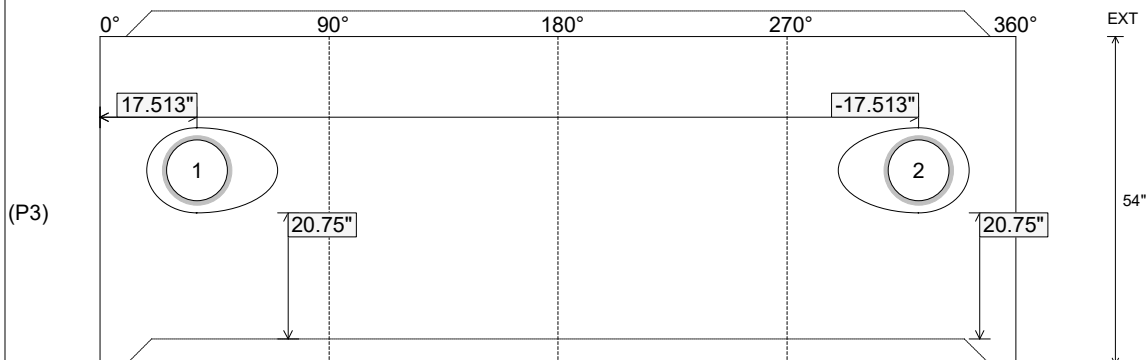
Rim: 636.88' Rim to Invert: 3.83' Slack: -0.04" Sump: 81" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	633.05'	0°	16.948"	10" HDPE	11.4"	Hole 14	14"	21.521"	20.75"	16"
Invert 2	633.05'	0°	-16.948"	10" HDPE	11.4"	Hole 14	14"	21.521"	20.75"	-16"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 5"
Floor Height: 0"

Height (Int): 54"
Height (Ext): 54"

Weight (Net): 3593 lb
Volume (Net): 0.92cu.yd

Job Name: 25-4694 - 314 Old Nashville Hwy

Job Location: La Vergne, TN

Contractor: Hayes Pipe Supply

Plant: 100

7/10/2026 10:41:06 AM

Tech: Jared - A

PC: E. Bradley



Structure ID: 4 (5)

P1 MH048BA30

MH BASE T/n

P3) 24" - CASTING (cast in) - 4"

P2) 48" - MH MONOTOP W/ MCS-288 CAST IN, Custom Ht F/G - 24"

P1) 48" - MH BASE T/n - 30"

1) This Structure Includes a Cast-in Item - MCS-288 Frame (Supplied by Others)

1) 48" - Conseal CS-102 1.00"

1) Hole - 24

1) Hole - 8

4) Weir n/n - 30"x6"

0 lb

2038 lb

3208 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 5246 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. NO STEPS

5. HOE MCS-288 FRAME & COVER "STORM"

SUPPLIED BY OTHERS - FRAME TO BE CAST INTO TOP OF MONOTOP FLANGE SIDE UP

Rim: 613.5'

Rim to Invert: 4.5'

Slack: 0"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	609'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	609'	165°	83.5"	6" HDPE (perf pipe)	6.9"	Hole 8	8"	8.038"	-0.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

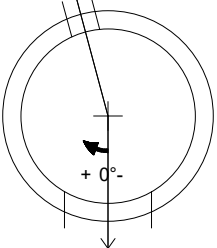
Invert: 2

Degree: 165°

Horz: 69.125"

Hole: 8"

Up(): -0.5"



Invert: 1

Degree: 0°

Horz: 0"

Hole: 24"

Up(): -1.625"

UPSIDE-DOWN VIEW (int. dimensions)

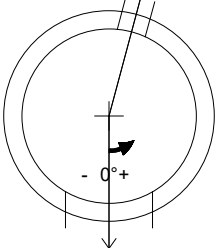
Invert: 2

Degree: 165°

Horz: 69.125"

Hole: 8"

Up(): -0.5"



Invert: 1

Degree: 0°

Horz: 0"

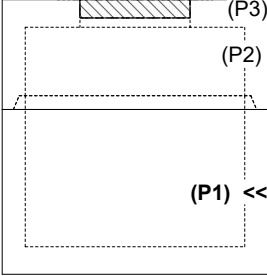
Hole: 24"

Up(): -1.625"

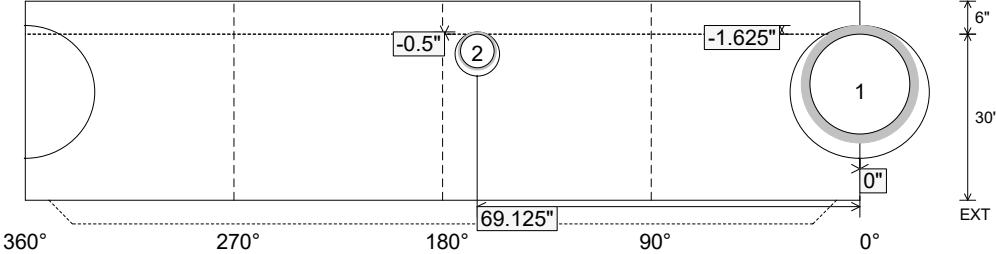
(P3)

(P2)

(P1) <<



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

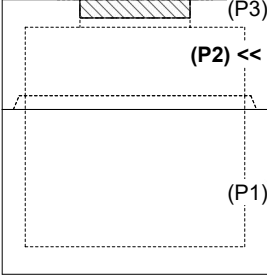
Height (Int): 30"

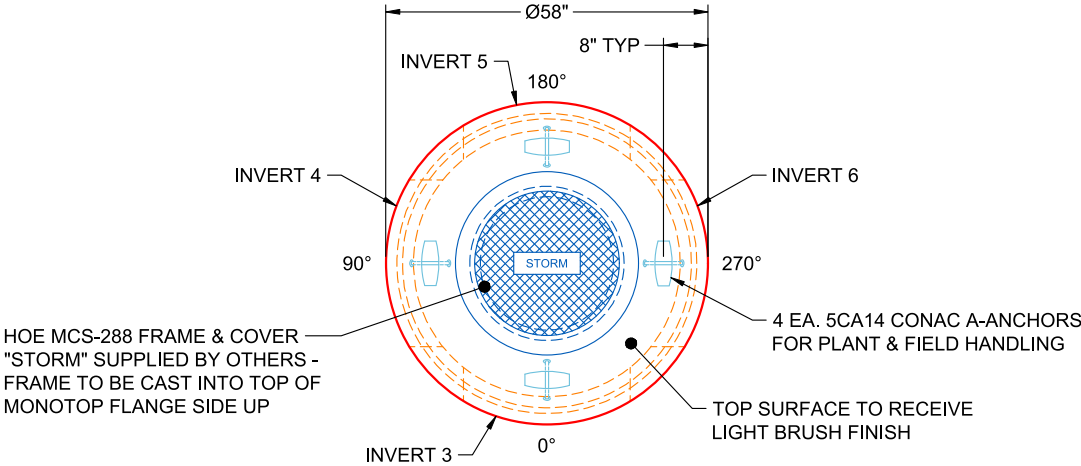
Height (Ext): 36"

Weight (Net): 3208 lb

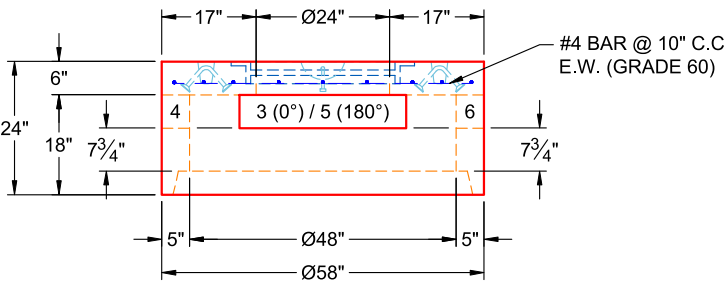
Volume (Net): 0.82cu.yd

Job Name: 25-4694 - 314 Old Nashville Hwy Job Location: La Vergne, TN Contractor: Hayes Pipe Supply					Plant: 100 7/10/2026 10:41:33 AM		Tech: Jared - A PC: E. Bradley				
Structure ID: 4 (5)											
P2 MH048MTVF		MH MONOTOP W/ MCS-288 CAST IN, Custom Ht F/G									
P3) 24" - CASTING (cast in) - 4" P2) 48" - MH MONOTOP W/ MCS-288 CAST IN, Custom Ht F/G - 24" P1) 48" - MH BASE T/n - 30" 1) This Structure Includes a Cast-in Item - MCS-288 Frame (Supplied by Others) 1) 48" - Conseal CS-102 1.00" 1) Hole - 24 1) Hole - 8 4) Weir n/n - 30"x6"					0 lb 2038 lb 3208 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 5246 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP): - TOP: #4 BAR @ 10" C.C. E.W. (GRADE 60) - WALLS: PER ASTM A615 4. NO STEPS 5. HOE MCS-288 FRAME & COVER "STORM" SUPPLIED BY OTHERS - FRAME TO BE CAST INTO TOP OF MONOTOP FLANGE SIDE UP 6. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN 7. TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH				
Rim: 613.5'		Rim to Invert: 4.5'		Slack: 0"		Sump: 0"		Step Position:			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3	612.5'	0°	0"	30" x 6" Weir	30" x 6"	Weir 30"x6"	30" x 6"	32.406"	7.75"	0"	
Invert 4	612.5'	90°	45.5"	30" x 6" Weir	30" x 6"	Weir 30"x6"	30" x 6"	32.406"	7.75"	0"	
Invert 5	612.5'	180°	91.125"	30" x 6" Weir	30" x 6"	Weir 30"x6"	30" x 6"	32.406"	7.75"	0"	
Invert 6	612.5'	270°	136.625"	30" x 6" Weir	30" x 6"	Weir 30"x6"	30" x 6"	32.406"	7.75"	0"	
Invert 7											
Invert 8											





PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Coating (Int): Coating (Ext):	Seam Up: n/a Seam Dn: Groove	Wall Thickness: 5" Top Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 2038 lb Volume (Net): 0.52cu.yd
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Job Number:

25-4964

Job Name:

314 Old Nashville Hwy

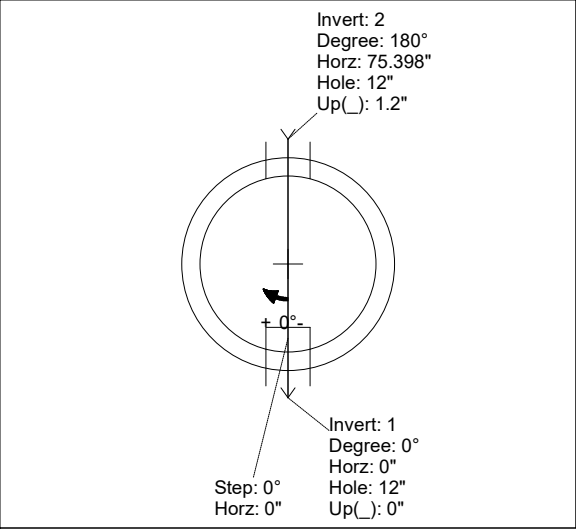
Structure:

4 (5)

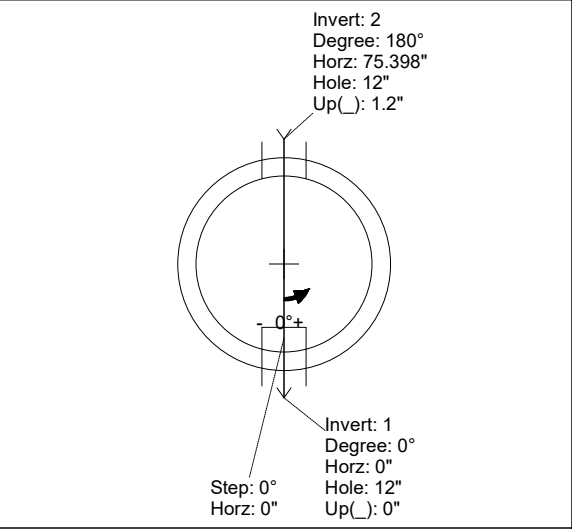
Note:

HOE MCS-288 Frame Supplied By
Others To Be Cast Into Flat Lid
Flange Side Up

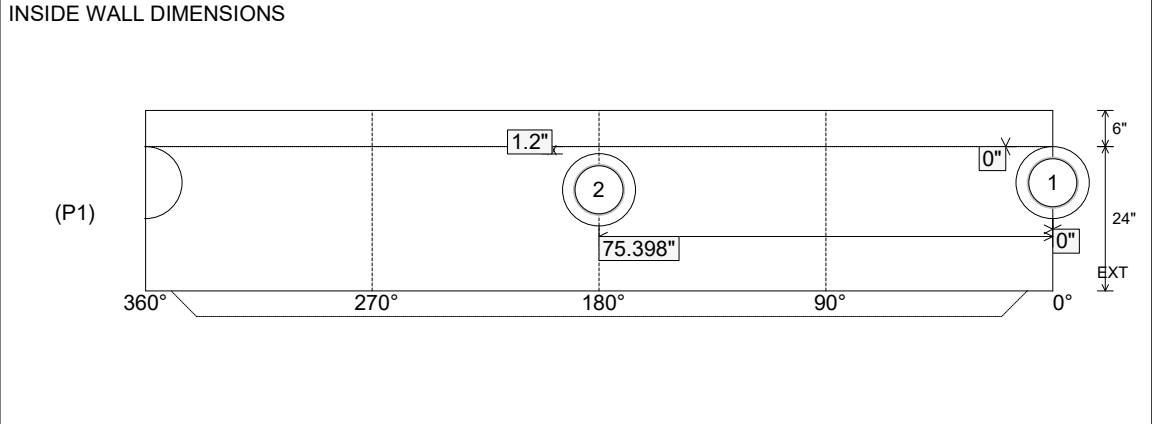
Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:12:57 AM		Tech: Jared - A PC: Erica Bradley			
Structure ID: A6										
P1 MH048BA24X		MH BASE w/XYPEX								
P6) 24" - CASTING HEIGHT - 7" P5) 48" - ECC XYPEX CONE w/ 24" HOLE - 36" P4) 48" - MH RISER w/XYPEX - 60" P3) 48" - MH RISER w/XYPEX - 60" P2) 48" - MH RISER w/XYPEX - 60" P1) 48" - MH BASE w/XYPEX - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 4) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 20) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 4192 lb 4192 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- 19443 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Rim: 724.62' Rim to Invert: 20.6' Slack: 2.2" Sump: 2" Step Position: 0°					Structure Total:					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	704.02'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	704.12'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



RIGHT-SIDE UP VIEW (int. dimensions)



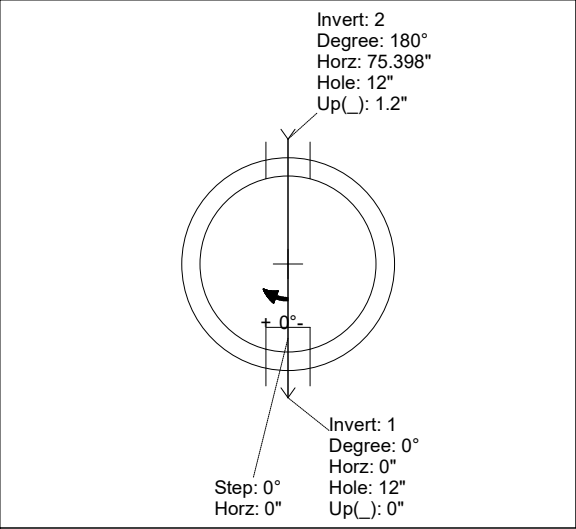
UPSIDE-DOWN VIEW (int. dimensions)



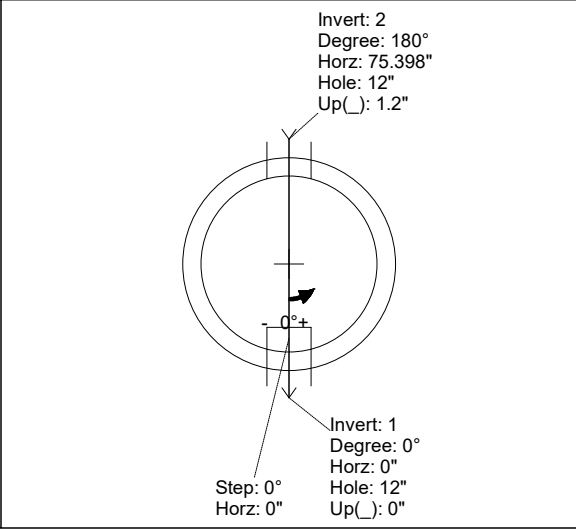
INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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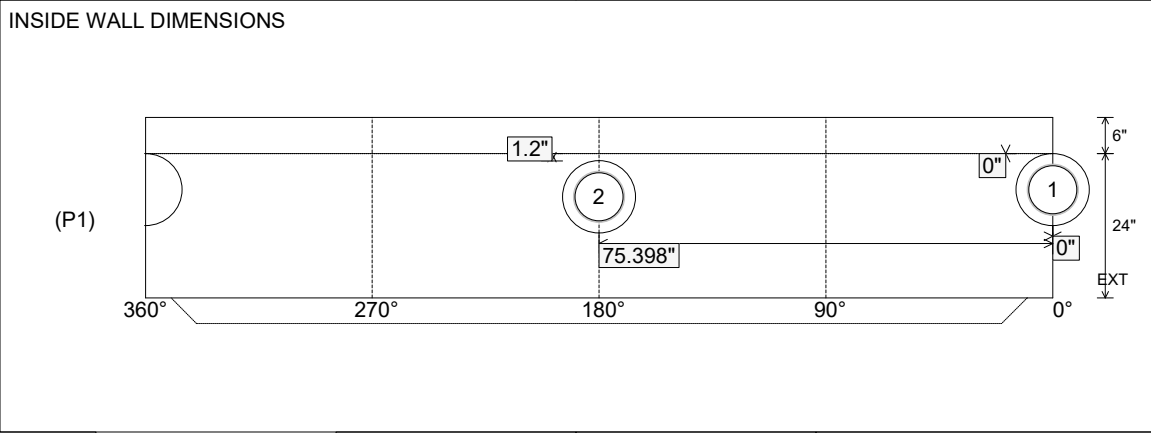
Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:12:57 AM		Tech: Jared - A PC: Erica Bradley			
Structure ID: A6										
P1 MH048BA24X		MH BASE w/XYPEX								
P6) 24" - CASTING HEIGHT - 7" P5) 48" - ECC XYPEX CONE w/ 24" HOLE - 36" P4) 48" - MH RISER w/XYPEX - 60" P3) 48" - MH RISER w/XYPEX - 60" P2) 48" - MH RISER w/XYPEX - 60" P1) 48" - MH BASE w/XYPEX - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 4) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 20) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 4192 lb 4192 lb 4192 lb 2911 lb 0 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 0 lb 16 lb 0 lb ----- Structure Total: 19443 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST INVERT CHANNEL DRAWING FULL HEIGHT INVERT			
Rim: 724.62' Rim to Invert: 20.6' Slack: 2.2" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	704.02'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	704.12'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



RIGHT-SIDE UP VIEW (int. dimensions)



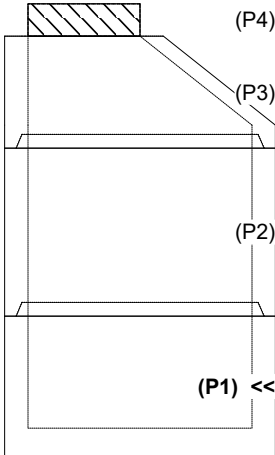
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

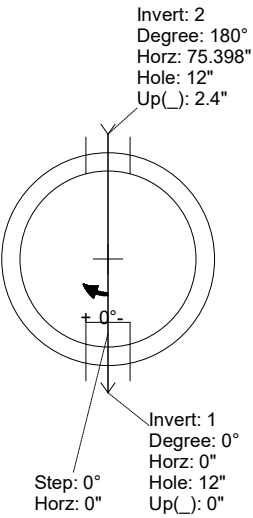
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:13:02 AM		Tech: Jared - A PC: Erica Bradley			
Structure ID: A13.1										
P1		MH048BA24X		MH BASE w/XYPEX						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 24" P2) 48" - MH RISER w/XYPEX - 36" P1) 48" - MH BASE w/XYPEX - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 7) MH Step ML-10-TDS-NCR - 10"					0 lb 1738 lb 2515 lb 2911 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Structure Total: 8870 lb										
Rim: 730.52' Rim to Invert: 7.5' Slack: 1" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	723.02'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	723.22'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.4"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

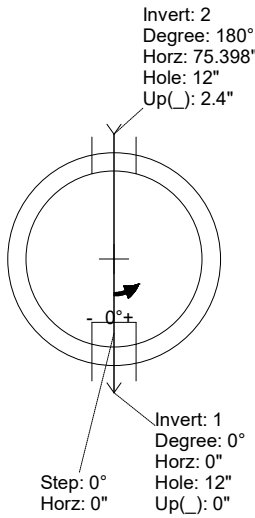


(P4)
(P3)
(P2)
(P1) <<

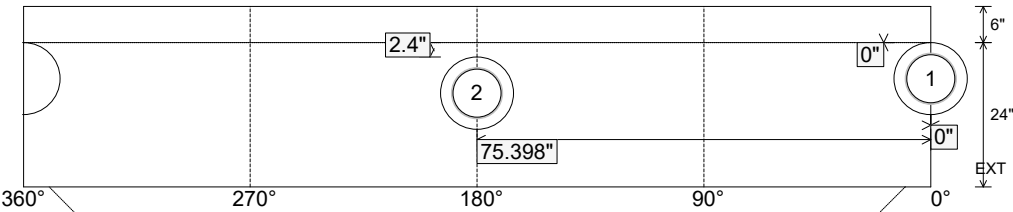
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



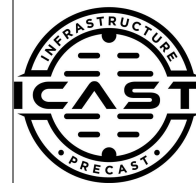
Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 24"
Height (Ext): 30"

Weight (Net): 2911 lb
Volume (Net): 0.74cu.yd



Coating (Int):	Seam Up: Tongue	Wall Thickness: 5"	Height (Int): 24"	Weight (Net): 2911 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 30"	Volume (Net): 0.74cu.yd



Weight (Net): 2153 lb
Volume (Net): 0.55cu.yd

Job Name: 25-2397 Sandy Springs Sec. 2
Job Location: Elizabethtown, KY 42701
Contractor: Dirt Works Unlimited, LLC.

Plant: 100

7/9/2026 2:51:31 PM

Tech: Jared - A

PC: Thomas Ryan



Structure ID: L

P1 MH060BAVF

MH BASE Custom Ht

- P3) 24" x 36" - CASTING HEIGHT - 6"
P2) 60" - MH FLAT TOP w/24"x36" Hole - 8"
P1) 60" - MH BASE Custom Ht - 47"
1) CASTING - HOE 525 SET (F/G/H)
1) 60" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 44
1) Hole - 38
1) Hole - 26
4) MH Step ML-10-TDS-NCR - 10"

0 lb
2153 lb
5913 lb
442 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 8508 lb

Structure Notes:

PLAN LABEL: L

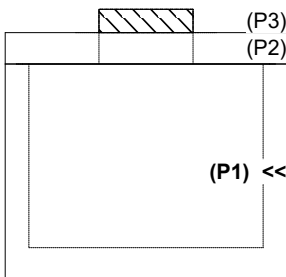
1. HOE 525 SET (F/G/H) PROVIDED BY ICAST.
 2. PER ASTM C478 SPECIFICATIONS.
 3. CONCRETE = 4,000 PSI AT 28 DAYS.
 4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .18)
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 689.94' Rim to Invert: 4.85' Slack: 0.05" Sump: 2.85" Step Position: 90°

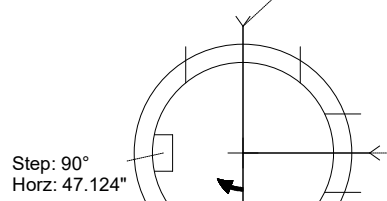
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	685.09'	0°	0"	36" HDPE	41.7"	Hole 44	44"	49.393"	0"	0"
Invert 2	685.09'	180°	113.097"	30" HDPE	35.1"	Hole 38	38"	41.151"	0.3"	0"
Invert 3	685.09'	270°	169.646"	18" RCP B WALL	23"	Hole 26	26"	26.891"	0.35"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

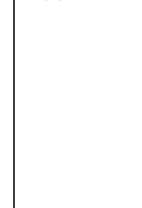


Invert: 2
Degree: 180°
Horz: 94.248"
Hole: 38"
Up(): 0.3"



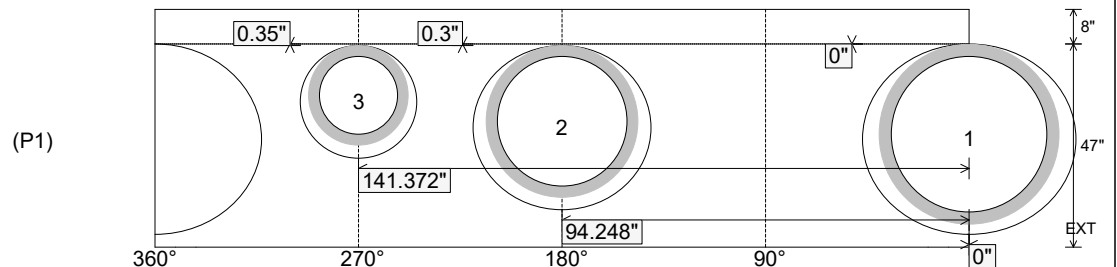
Invert: 3
Degree: 270°
Horz: 141.372"
Hole: 26"
Up(): 0.35"

Invert: 3
Degree: 270°
Horz: 141.372"
Hole: 26"
Up(): 0.35"



Invert: 1
Degree: 0°
Horz: 0"
Hole: 44"
Up(): 0"

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 47"
Height (Ext): 55"

Weight (Net): 5913 lb
Volume (Net): 1.51cu.yd

Job Name: 25-2397 Sandy Springs Sec. 2
Job Location: Elizabethtown, KY 42701
Contractor: Dirt Works Unlimited, LLC.

Plant: 100

7/9/2026 2:51:29 PM

Tech: Jared - A

PC: Thomas Ryan



Structure ID: I

P1 MH060BAVF

MH BASE Custom Ht

- P3) 24" x 36" - CASTING HEIGHT - 6"
P2) 60" - MH FLAT TOP w/24"x36" Hole - 8"
P1) 60" - MH BASE Custom Ht - 41"
1) CASTING - HOE 525 SET (F/G/H)
1) 60" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 38
1) Hole - 30
1) Hole - 32
3) MH Step ML-10-TDS-NCR - 10"

0 lb
2153 lb
5610 lb
442 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 8205 lb

Structure Notes:

PLAN LABEL: I

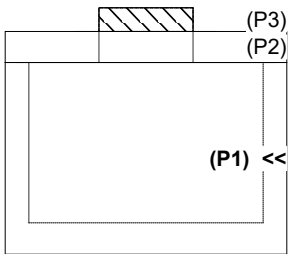
1. HOE 525 SET (F/G/H) PROVIDED BY ICAST.
 2. PER ASTM C478 SPECIFICATIONS.
 3. CONCRETE = 4,000 PSI AT 28 DAYS.
 4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .18)
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 690.82' Rim to Invert: 4.35' Slack: 0.2" Sump: 3" Step Position: 90°

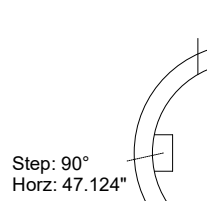
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	686.47'	0°	0"	30" HDPE	35.1"	Hole 38	38"	41.151"	0.45"	0"
Invert 2	686.47'	180°	113.097"	24" HDPE	27.8"	Hole 30	30"	31.416"	1.1"	0"
Invert 3	686.47'	270°	169.646"	24" RCP B WALL	30"	Hole 32	32"	33.752"	0"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



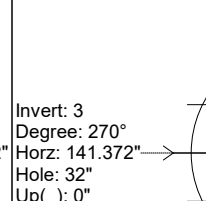
Invert: 2
Degree: 180°
Horz: 94.248"
Hole: 30"
Up(): 1.1"



Invert: 3
Degree: 270°
Horz: 141.372"
Hole: 32"
Up(): 0"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 38"
Up(): 0.45"

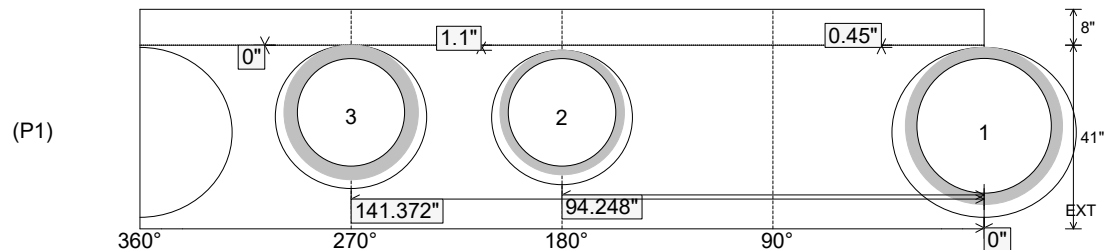
Invert: 2
Degree: 180°
Horz: 94.248"
Hole: 30"
Up(): 1.1"



Invert: 3
Degree: 270°
Horz: 141.372"
Hole: 32"
Up(): 0"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 38"
Up(): 0.45"

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 41"
Height (Ext): 49"

Weight (Net): 5610 lb
Volume (Net): 1.43cu.yd

Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion
Job Location: Shepherdsville, KY
Contractor: Pace Contracting, LLC

Plant: 100

6/4/2026 5:54:52 PM

Tech: Jared - F

PC: J Jarvis



Structure ID: SAMPLER MH

P3 MH060LD13S

MH FLAT TOP w/36"x36" Hatch F/G

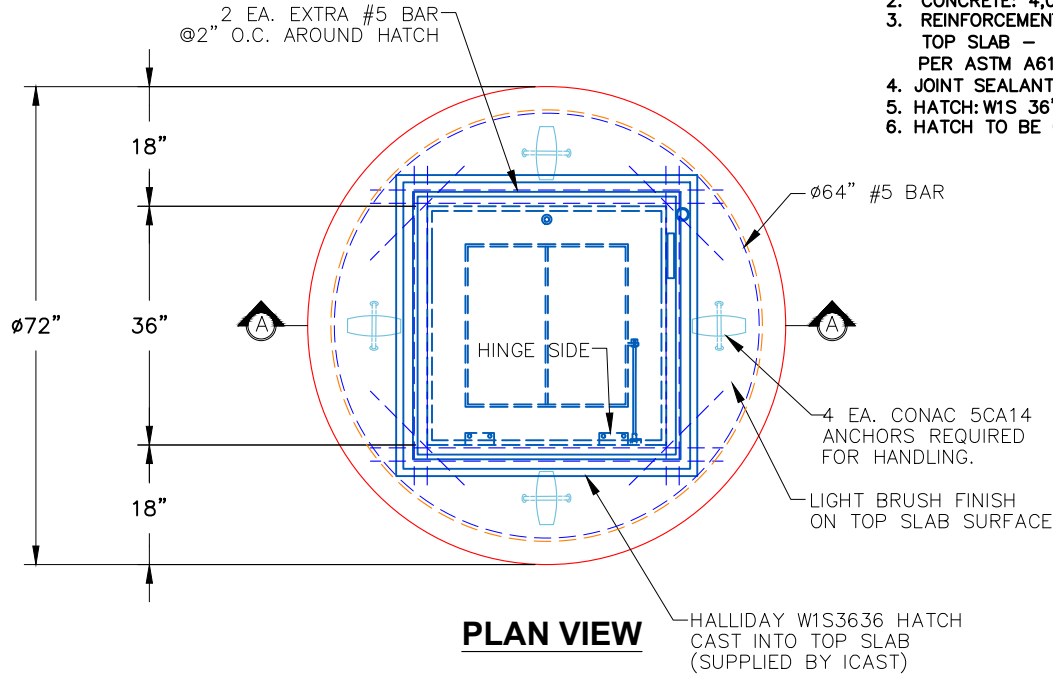
- P4) 36" x 36" - CASTING HEIGHT - 0"
P3) 60" - MH FLAT TOP w/36"x36" Hatch F/G - 13"
P2) 60" - MH RISER T/G - 24"
P1) 60" - MH BASE Custom Ht T/n - 60"
1) HATCH (Alum.) - HALLIDAY W1S 36"x36"
2) 60" - Con Seal CS-102 1.00" (Double)
1) 36" x 36" - Con Seal CS-102 1.00" (Double)
3) Hole - 8
1) Hole - 4

Structure Total:

0 lb
2132 lb
2505 lb
8905 lb
78 lb
0 lb
0 lb
0 lb
0 lb
13620 lb

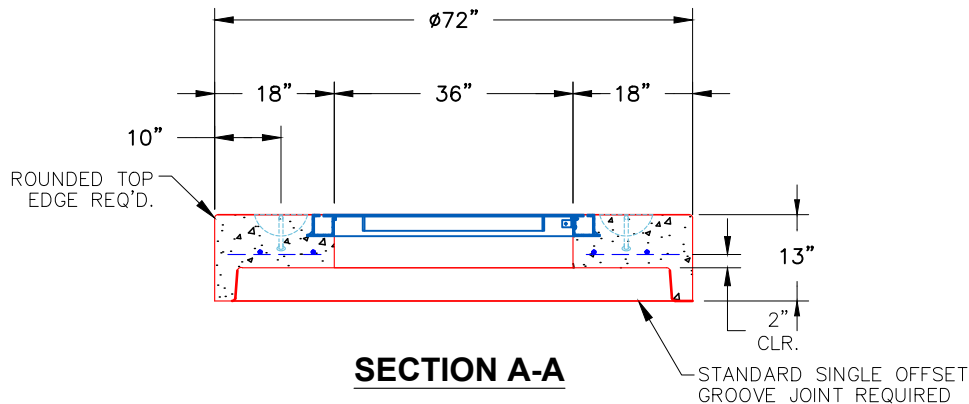
Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 36"x36")
- REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
 - RISER/WALLS (As .18)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



NOTES:

1. PER ASTM C-478 LATEST REVISION
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCEMENT:
TOP SLAB - #5 BAR @ 6" C.C.E.W.
PER ASTM A615 (GRADE 60)
4. JOINT SEALANT - 1" CS-102-DOUBLE
5. HATCH: W1S 36"x36" HATCH IS PROVIDED BY ICAST.
6. HATCH TO BE CAST INTO TOP SLAB.



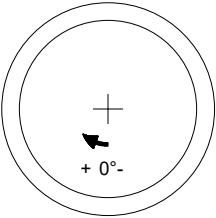
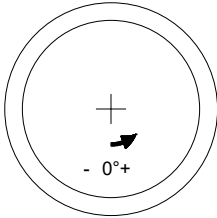
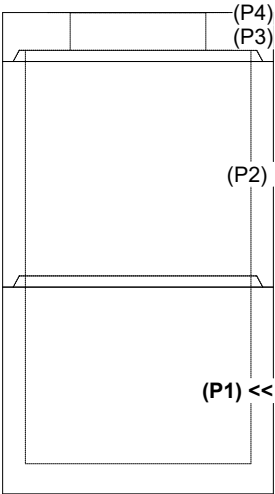
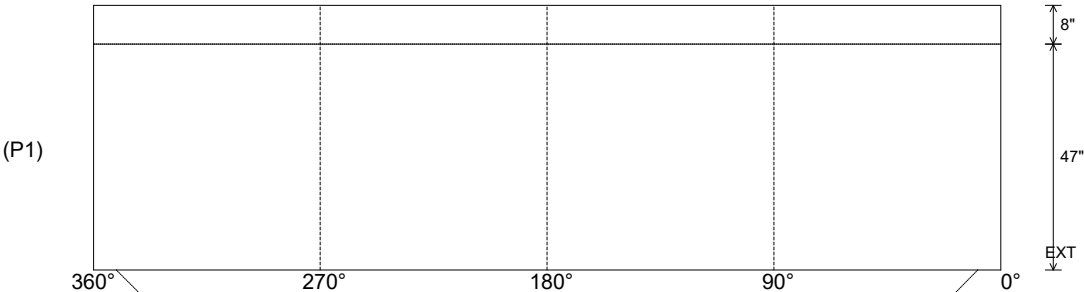
Coating (Int):
Coating (Ext):

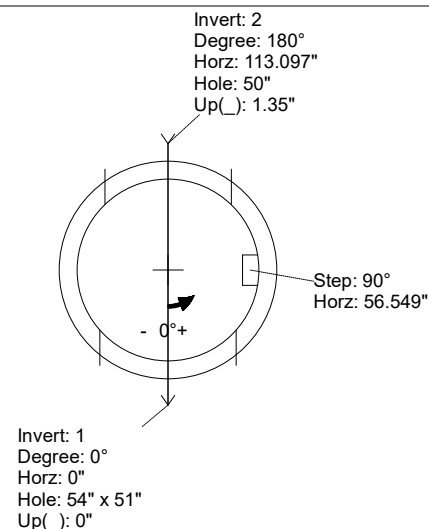
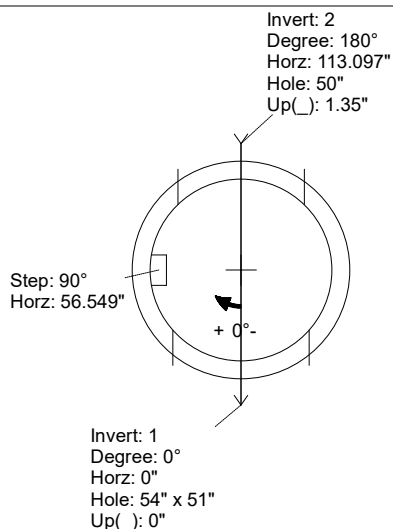
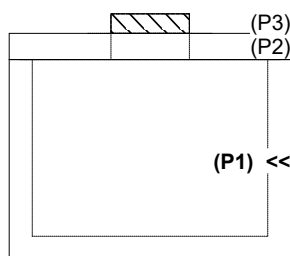
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"

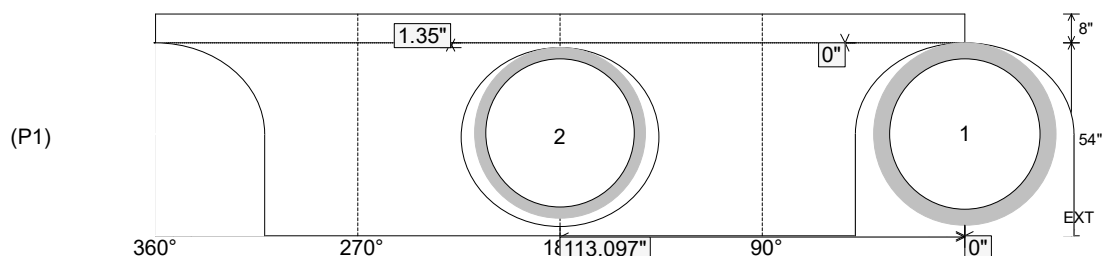
Height (Ext): 13"

Weight (Net): 2132 lb
Volume (Net): 0.55cu.yd

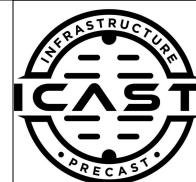
Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100 6/4/2026 5:54:14 PM		Tech: Jared - F PC: J Jarvis				
Structure ID: METER VAULT 2											
P1 MH060BAVF			MH BASE Custom Ht T/n								
P4) 36" x 36" - CASTING HEIGHT - 0" P3) 60" - MH FLAT TOP w/36"x36" Hatch F/G - 13" P2) 60" - MH RISER T/G - 60" P1) 60" - MH BASE Custom Ht T/n - 47" 1) HATCH (Alum.) - HALLIDAY W1S 36"x36" 2) 60" - Conseal CS-102 1.00" (Double) 1) 36" x 36" - Conseal CS-102 1.00" (Double) 2) PSX - 8QRS DD					0 lb 2132 lb 6213 lb 7640 lb 78 lb 0 lb 0 lb 13 lb ----- 16075 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 36"X36") REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .18) - FLOOR (As .47) #5 BARS AT 12" C.C.E.W.				
Rim: 454' Rim to Invert: 5.06' Slack: -0.002" Sump: 59.28" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimensions)   INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 6" Floor Height: 8"		Height (Int): 47" Height (Ext): 55"		Weight (Net): 7640 lb Volume (Net): 1.95cu.yd		

[illegible]

INSIDE WALL DIMENSIONS



Weight (Net): 8816 lb
Volume (Net): 2.25cu.yd



Weight (Net): 5152 lb
Volume (Net): 1.32cu.yd

Job Name: 26-2254 - Wilder Box Culvert
Job Location: Wilder, KY
Contractor: Eaton Asphalt

Plant: 100
7/6/2026 1:23:09 PM

Tech: Jared - A
PC: E. Bradley

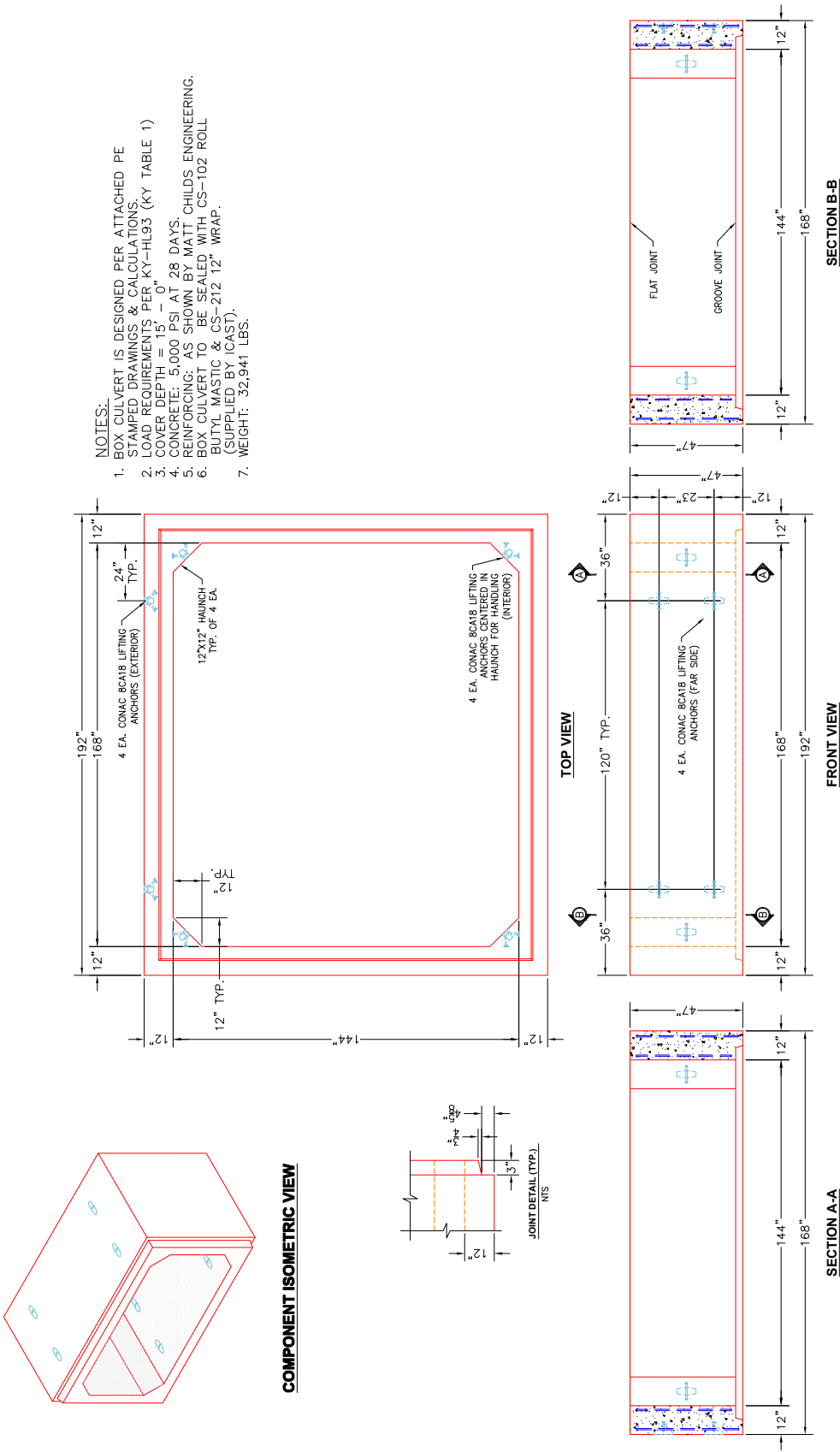


Structure ID: Box Culvert

P1 BC168144-12W12T12F-12H

BOX CULVERT (12W/12F/12T) F/G

- NOTES:
1. BOX CULVERT IS DESIGNED PER ATTACHED PE STAMPED DRAWINGS & CALCULATIONS.
 2. LOAD REQUIREMENTS PER KY-HL93 (KY TABLE 1)
 3. COVER DEPTH = 15' - 0"
 4. CONCRETE: 5,000 PSI AT 28 DAYS.
 5. REINFORCING: AS SHOWN BY MATT CHILDS ENGINEERING.
 6. BOX CULVERT TO BE SEALED WITH CS-102 ROLL BUTYL MASTIC & CS-212 12" WRAP. (SUPPLIED BY ICAST).
 7. WEIGHT: 32,941 LBS.



Coating (Int):
Coating (Ext):

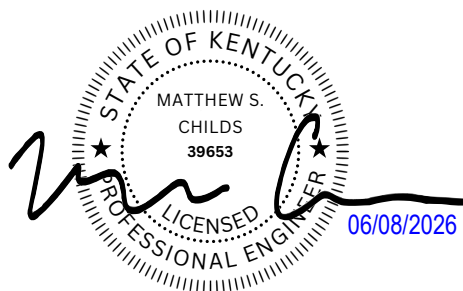
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 12"
Floor Height: 0"

Height (Int): 47"
Height (Ext): 47"

Weight (Net): 32941 lb
Volume (Net): 8.41cu.yd

Project: Mooch Road
Product: 14' x 12' Box Culvert
Job: 26-2254
Design No.:
Location: Wilder, KY
Reference #:



MATT CHILDS ENGINEERING, PLLC

Project : City of Wilder
Task : 14x12 15' Fill
Job No. :

Client: ICast
File: 20260605-ICast-CityofWilder-14x12(15'Fill).etcx

Sht ____ of ____
By:MBJ
Ck:
6/5/2026 4:35:08 PM
p. 1 of 2

Spec.: LRFD 9th ed.
Type of Culvert: Precast

Physical Dimensions

Clear Span:	14'-0"
Clear Height:	12'-0"
Top Slab:	1'-0"
Bottom Slab:	1'-0"
Ext. Wall:	1'-0"
Fill Depth:	15.00 ft
Length:	4'-0"
Skew Angle:	0.00 deg
Bottom Slab Support:	Full Slab
Top Haunch, Width:	1'-0"
Top Haunch, Height:	1'-0"
Bottom Haunch, Width:	1'-0"
Bottom Haunch, Height:	1'-0"

Material Properties

Concrete
Strength, f_c: 5.000 ksi
Density: 0.150 kcf
Elasticity, E_c: 3834 ksi
Type: Normal wt

Steel
Yield, f_y: 65 ksi
Allow Stress: 39 ksi
Elasticity, E_s: 29000 ksi

Soil
Density: 0.120 kcf

Exposure Factor
Class 2 Exposure
Reinforcement Covers
Ext. Cover Top Slab: 1"
Ext. Cover Bottom Slab: 1"
Ext. Cover Walls: 1"
Int. Cover Walls: 1"
Int. Cover Top Slab: 1"
Int. Cover Bottom Slab: 1"

Controlling Ratings

Inventory Rating: 5.85
Operating Rating: 7.59

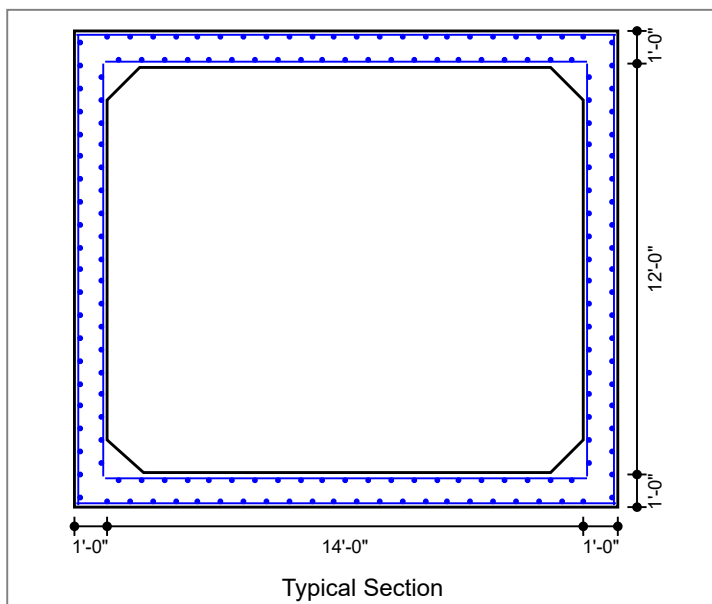
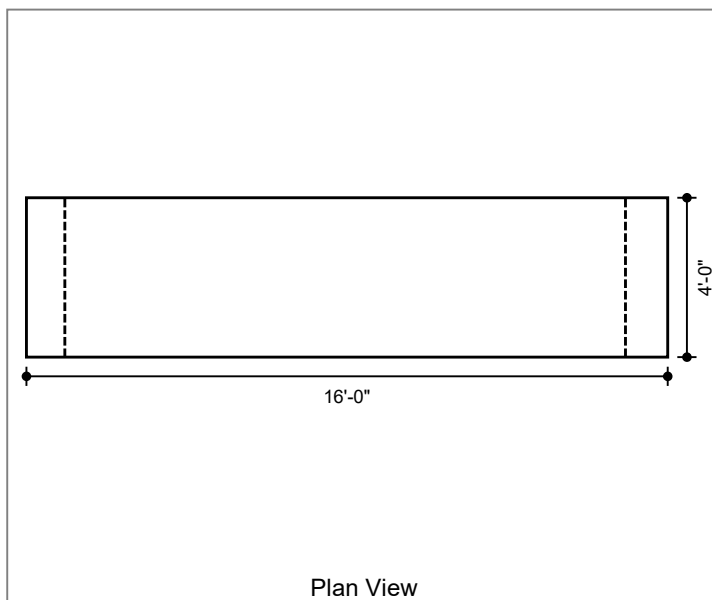
Loads

Live Load
Vehicle Names: HL-93
Traffic Direction: Parallel
Eq. Height of Soil: 2.00 ft (Calc'd)

Dead Load
Future Wearing Surface: 0.000 klf
Additional Dead Load: 0.000 klf
Concentrated Loads: none

Lateral Soil Loads
Eq. Fluid Press. Max: 60.00 pcf
Eq. Fluid Press. Min: 30.00 pcf

Interior Water Pressure: yes, head pressure = 0 ft
Exterior Water Pressure: no



MATT CHILDS ENGINEERING, PLLC

Sht ____ of ____

By:MBJ

Ck: _____

6/5/2026 4:35:09 PM

p. 2 of 2

Project : City of Wilder

Task : 14x12 15' Fill

Job No. :

Client: ICast

File: 20260605-ICast-CityofWilder-14x12(15'Fill).etcx

Concrete Summary

Volume of Concrete: 2.148 cy/ft Total Volume of Concrete: 8.593 cy

Reinforcing Steel Bar Schedule (lb)

Location	Mark	Sheets Included	As Provided
Top Slab(Int)	A100 (AS2)	Top	1.200
Bot Slab(Int)	A200 (AS3)	Bot	1.290
Top Slab(Ext)	A300 (AS7)	Top	0.300
Bot Slab(Ext)	A400 (AS8)	Bot	0.300
Corner(Top)	A1 (AS1)	Top	0.780
Corner(Bot)	A2 (AS1)	Bot	0.780
Wall(Int)	B1 (AS4)	L&R	0.300
Wall(Ext)	B2 (AS1)	L&R	0.780
Longit. Top (Int)	C100 (AS5)	Top	0.150
Longit. Bot (Int)	C200	Bot	0.150
Longit. Top (Ext)	C1 (AS6)	Top	0.150
Longit. Bot (Ext)	C1 (AS6)	Bot	0.150
Longit. Wall (Ext)	C1 (AS6)	L&R	0.150
Longit. Wall (Int)	C1 (AS6)	L&R	0.150

Job Name: 24-1643B - KYTC McCracken Co. Call 200 (ID 241301)
Job Location: Paducah, KY
Contractor: Jim Smith Contracting Co, LLC

Plant: 100

5/28/2026 7:52:51 AM

Tech: J. Horsley

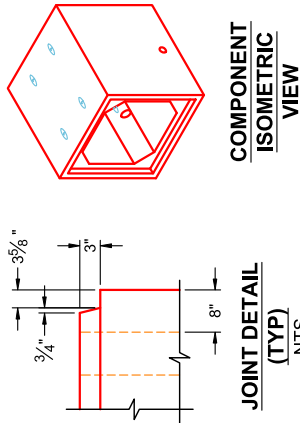
PC: C. Goff



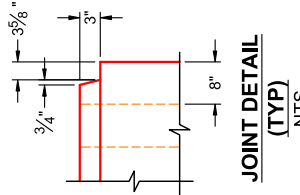
Structure ID: St. 45+00 (PC 17)

P1 BC048048-08WLF-9H

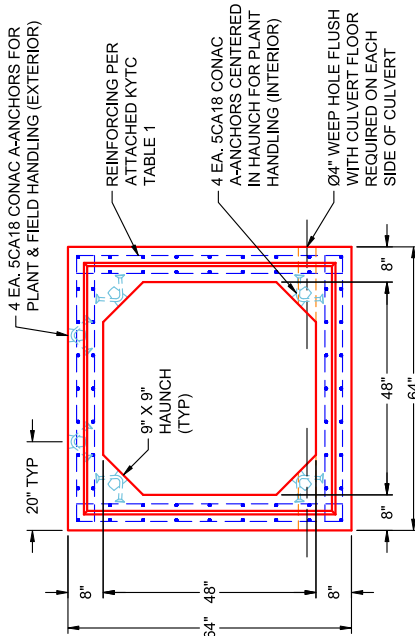
BOX CULVERT (08W/08F/08T) G/T



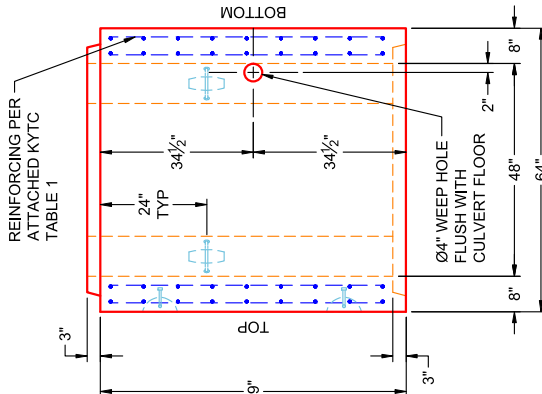
COMPONENT
ISOMETRIC
VIEW



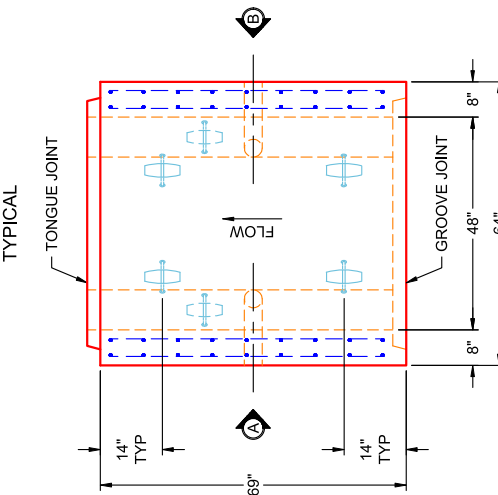
JOINT DETAIL
(TYP)
NTS



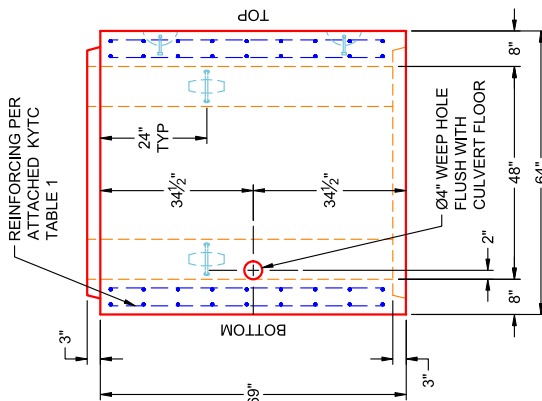
END VIEW
TYPICAL



VIEW B
PC 17
(UPRIGHT IN MOLD)



PLAN VIEW
PC 17
(UPRIGHT IN MOLD)



VIEW A
PC 17
(UPRIGHT IN MOLD)

GENERAL NOTES:

- PER SECTION 605 OF KYTC STANDARD SPECS FOR ROAD & BRIDGE CONSTRUCTION
- KYTC STAMP REQUIRED
- WEEP HOLES REQUIRED
- LOAD REQUIREMENTS: KY-HL93 (KY TABLE 1)
- REINFORCEMENT PER ATTACHED KYTC TABLE 1
- COVER DEPTH: 0' - 7'
- CONCRETE: 5,000 PSI AT 28 DAYS
- JOINT SEALANT: 1" BUTYL MASTIC (CS-102)
EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
- WEIGHT: 4' X 4' RCBC = 1,968 LBS / LF
(5-9' LONG SECTION = 11,314 LBS)

PRODUCTION WORK ORDER

QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED INSIDE.
- ☐ RECESS WITH HAUNCHES CORRECT.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ LIFTERS INSTALLED OUTSIDE.
- ☐ PRODUCT SQUARE.



PRODUCT I.D.: BC048048-08WLF-9H

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY

WEIGHT: 11,314 LBS

TOP SECTION JOINT: TONGUE

BASE SECTION JOINT: GROOVE

QC CHECK INITIALS:

DESCRIPTION: 48" X 48" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)

CUSTOMER: JIM SMITH CONTRACTING

PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)

STRUCTURE: ST. 45+00 (PC 17)

ORDER NO: 24-1643B

PE: J.H. ROSS

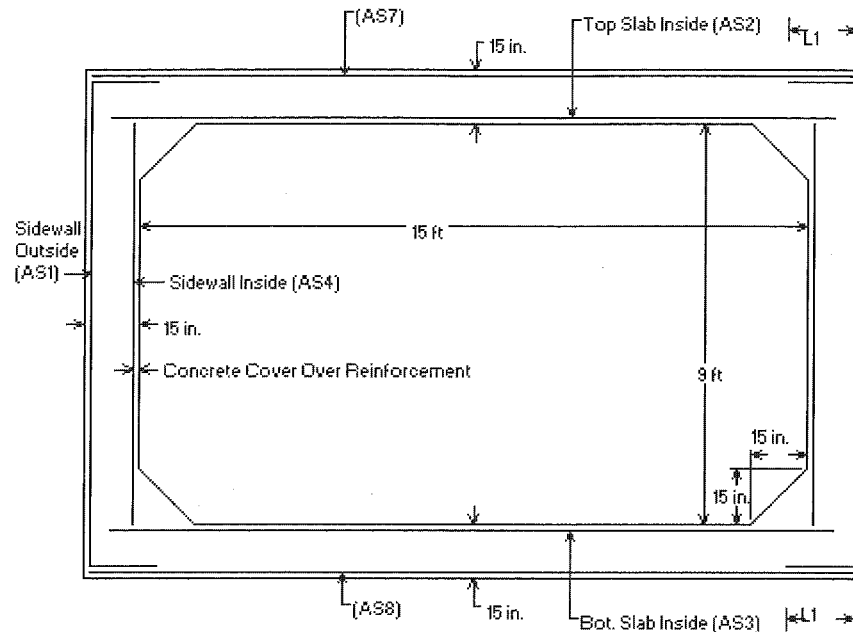
DRAWING: K. CARDWELL

DATE: 05/28/26

SCALE: NTS

PG. 1 OF 1

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- * <L1> is Splice Length
- * (AS7) is Top Slab Outside
- * (AS8) is Bottom Slab Outside
- * See Box Culvert Design Summary Sheet for transverse and distribution reinforcement, as required.
- * For sidewall thicknesses of 6 in. and above, extend AS2 and AS3 a min. of 4 in. beyond the inside face of the sidewall. For thicknesses less than 6 in., extend AS2 and AS3 at least to within 1-1/2 in. of the outside face of the sidewall.

Notes:

- 1) Other reinforcement schemes that provide the required reinforcement areas at all locations identified in the program output are acceptable.
- 2) Longitudinal reinforcement is not shown for clarity, see AASHTO M259 for longitudinal reinforcement and for additional requirements.

KY Table 1

Precast Culvert KYHL-93 Design Table

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
4x3x5	0<2*	0.18	0.705	0.199	0.12	0.18	0.144	0.18	0.18
	2<3	0.198	0.309	0.27	0.12	0.12	0.12		
	3-5	0.123	0.191	0.193	0.12	0.12	0.12		
	10	0.12	0.142	0.146	0.12	0.12	0.12		
	15	0.12	0.193	0.197	0.12	0.12	0.12		
	20	0.152	0.249	0.253	0.12	0.12	0.12		
	25	0.187	0.306	0.31	0.12	0.12	0.12		
	30	0.225	0.366	0.37	0.12	0.12	0.12		
	35	0.263	0.428	0.432	0.12	0.12	0.12		

*top slab 7.5", bottom slab 6"

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
4x4x5	0<2*	0.18	0.745	0.22	0.12	0.18	0.144	0.18	0.18
	2<3	0.154	0.314	0.276	0.12	0.12	0.12		
	3-5	0.12	0.215	0.219	0.12	0.12	0.12		
	10	0.12	0.155	0.162	0.12	0.12	0.12		
	15	0.12	0.21	0.217	0.12	0.12	0.12		
	20	0.124	0.269	0.276	0.12	0.12	0.12		
	25	0.152	0.331	0.339	0.12	0.12	0.12		
	30	0.182	0.396	0.403	0.12	0.12	0.12		
	35	0.213	1.205	0.471	0.12	0.12	0.12		

*top slab 7.5", bottom slab 6"

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
5x3x6	0<2*	0.192	0.726	0.201	0.144	0.6	0.168	0.192	0.192
	2<3	0.224	0.288	0.232	0.144	0.144	0.144		
	3-5	0.16	0.205	0.19	0.144	0.144	0.144		
	10	0.144	0.164	0.168	0.144	0.144	0.144		
	15	0.174	0.224	0.228	0.144	0.144	0.144		
	20	0.223	0.288	0.292	0.144	0.144	0.144		
	25	0.276	0.354	0.359	0.144	0.144	0.144		
	30	0.331	0.423	0.427	0.144	0.144	0.144		
	35	0.389	1.349	1.168	0.144	0.144	0.144		

*top slab 8", bottom slab 7"

Charles D. Jaffe

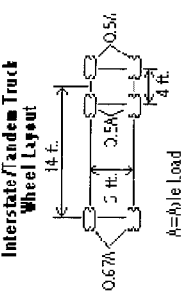
Design Code

Flexure

0.25

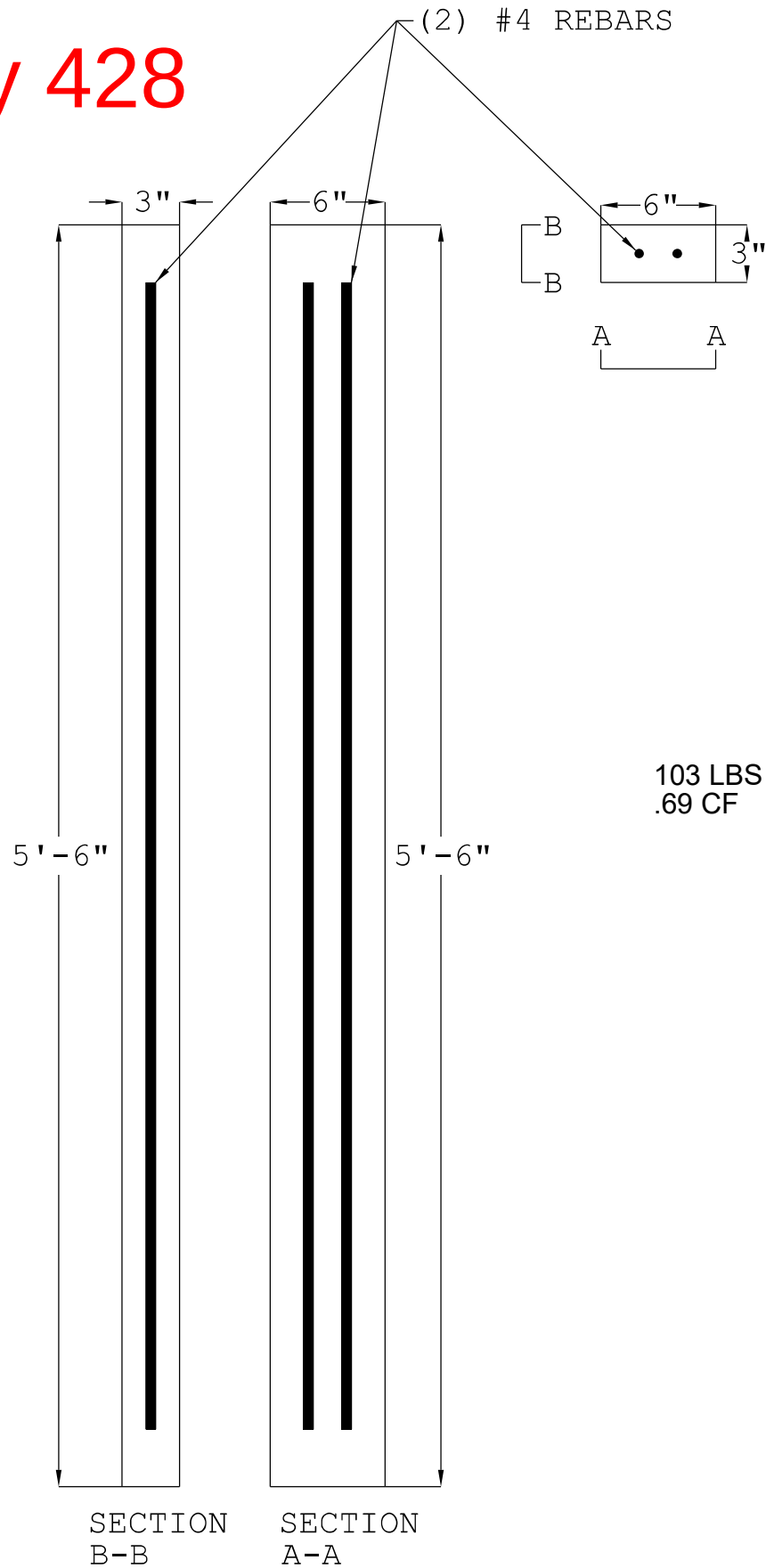
Condition	Number of subjects
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out	0
in	0
in	0
in	0

Return
Next Page >>



ALCOA CONCRETE LOGS

Quantity 428



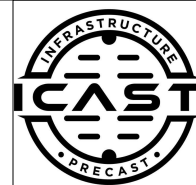
Job Name: 25-1684P13 KYTC Jefferson Co. Call 200 (251007)
Job Location: I-264 Louisville, Ky.
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, Ky.

7/21/2026 12:34:11 PM

Tech: N. Richards

PC: J. Jarvis



Structure ID: 5125+00 LT DBI TYPE 1-MOD.

P1 BX3636-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

P2) 36" x 36" - P.I.P. - BY OTHERS - 8"

P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 28"

1) 36" x 36" - Conseal CS-102 1.00"

1) DOGHOUSE INVRTD - 30"x28"

0 lb
4580 lb
0 lb
0 lb

Structure Total: 4580 lb

Structure Notes:

-KYTC STATE PROJECT 251007

-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)

-FRAME & GRATES BY OTHERS.

-KYTC CERTIFICATIONS REQUIRED.

-#5 BAR EXTENDED OUT OF TOP OF BOX 20" AT 12" C/C.

Rim: 561.87'

Rim to Invert: 3'

Slack: 0"

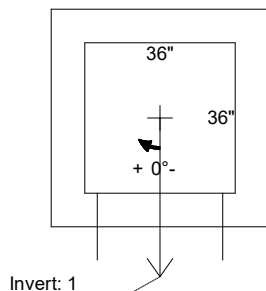
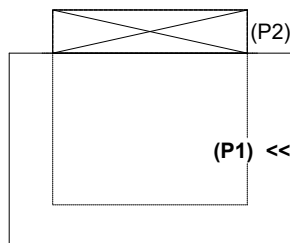
Sump: 0"

Step Position:

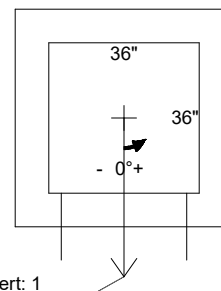
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	558.87'	0°	26"	24" CMP	25"	DOGHOUSE INVRTD 30"x28"	30" x 28"	30"	-2"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



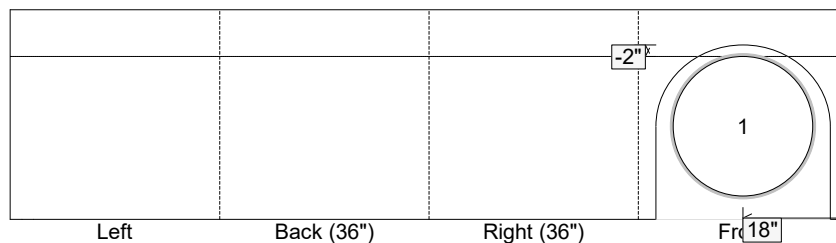
Invert: 1
Degree: 0°
Horz: 18"
Hole: 30" x 28"
Up(): -2"



Invert: 1
Degree: 0°
Horz: 18"
Hole: 30" x 28"
Up(): -2"

INSIDE WALL DIMENSIONS

(P1)



8"
28"
EXT

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 28"
Height (Ext): 36"

Weight (Net): 4580 lb
Volume (Net): 1.17cu.yd

Job Name: 25-1684P13 KYTC Jefferson Co. Call 200 (251007)
Job Location: I-264 Louisville, Ky.
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, Ky.

7/21/2026 12:34:10 PM

Tech: N. Richards

PC: J. Jarvis



Structure ID: 5130+98 RT CBBI-MOD B1

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

- P3) 24" x 120" - CASTING (cast in) - 3"
P2) 24" x 120" - CB MED BAR BOX INLET 9B1 LH - 17"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 34"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 22
1) Hole - 18

0 lb
4000 lb
4440 lb
0 lb
0 lb
0 lb

Structure Total: 8440 lb

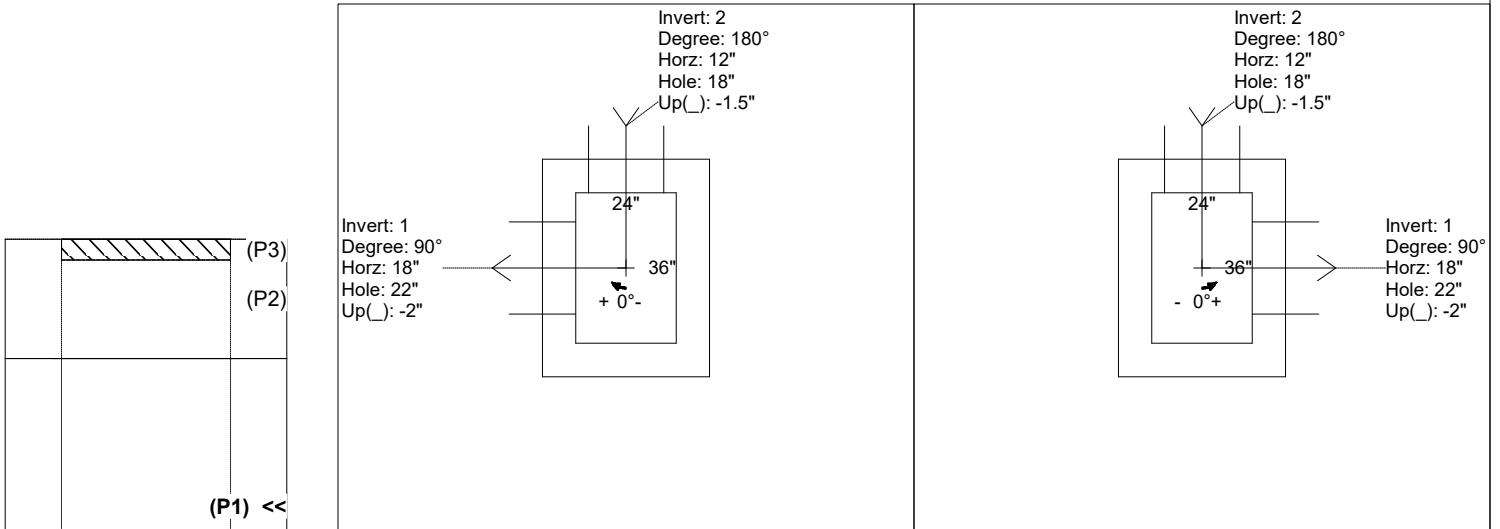
Structure Notes:
-KYTC STATE PROJECT 251007
-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)
-CASTING FRAMES & GRATES BY OTHERS.
-CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST).
-KYTC CERTIFICATIONS REQUIRED.

Rim: 561.02' Rim to Invert: 4.6' Slack: 4.2" Sump: 0" Step Position:

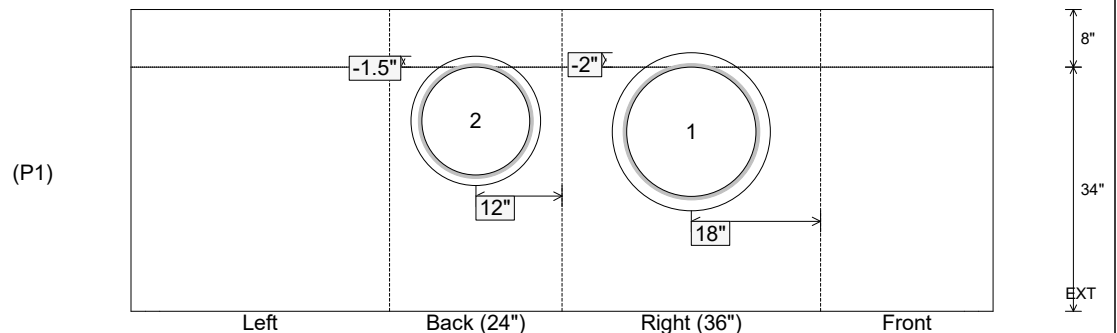
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	556.42'	90°	26"	18" CMP	19"	Hole 22	22"	22"	-2"	0"
Invert 2	556.42'	180°	20"	15" CMP	16"	Hole 18	18"	18"	-1.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 34"
Height (Ext): 42"

Weight (Net): 4440 lb
Volume (Net): 1.13cu.yd

Job Name: 25-2397 Sandy Springs Sec. 2
Job Location: Elizabethtown, KY 42701
Contractor: Dirt Works Unlimited, LLC.

Plant: 100
7/9/2026 2:51:31 PM

Tech: Jared - A
PC: Thomas Ryan



Structure ID: M

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

- P2) 24" x 36" - CASTING HEIGHT - 6"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 31"
1) CASTING - HOE 525 SET (F/G/H)
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 18"

0 lb
4389 lb
442 lb
0 lb
0 lb

Structure Total: 4831 lb

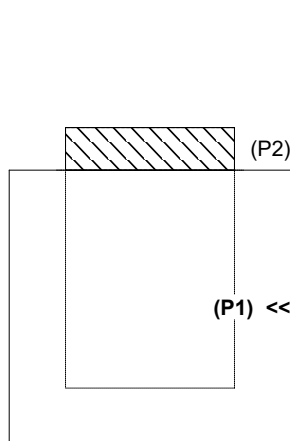
Structure Notes:
PLAN LABEL: M
1. HOE 525 SET (F/G/H) PROVIDED BY ICAST.
2. PER ASTM C913 SPECIFICATIONS.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.
6. PLEASE VERIFY THE REQUIRED TOP OF FRAME ELEVATION AS THE STRUCTURE SCHEDULE AND PLAN VIEW VALUES DIFFER. SCHEDULE VALUES WERE USED IN THIS SUBMITTAL.

Rim: 689.72' Rim to Invert: 3.16' Slack: 0.92" Sump: 0" Step Position:

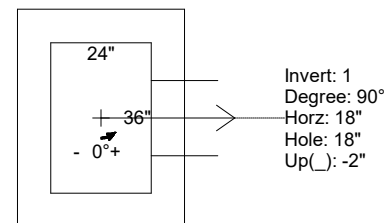
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	686.56'	90°	26"	12" RCP B WALL	16"	Hole 18	18"	18"	-2"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



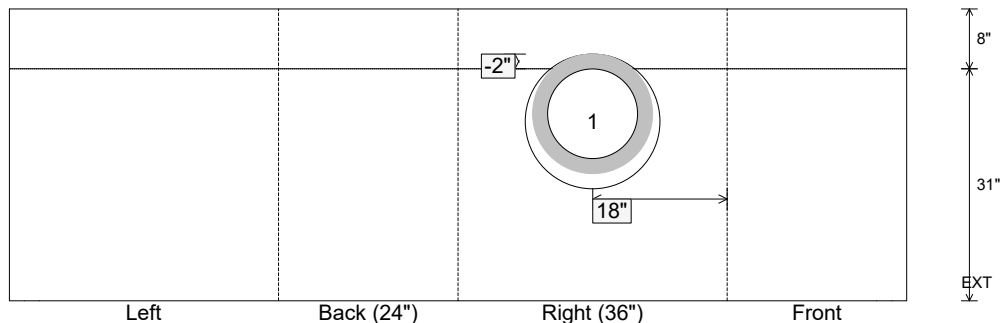
Invert: 1
Degree: 90°
Horz: 18"
Hole: 18"
Up(): -2"



Invert: 1
Degree: 90°
Horz: 18"
Hole: 18"
Up(): -2"

INSIDE WALL DIMENSIONS

(P1)



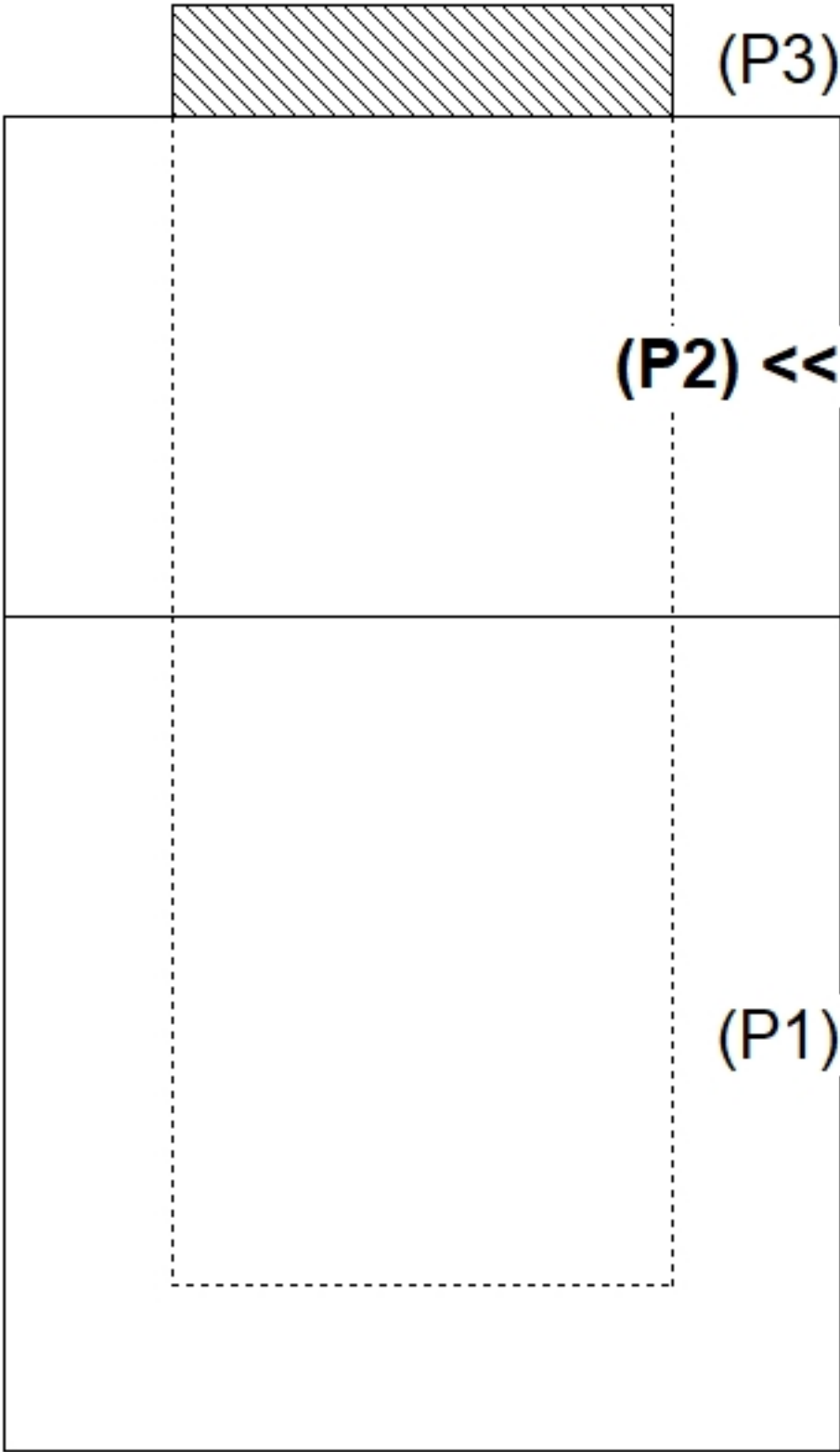
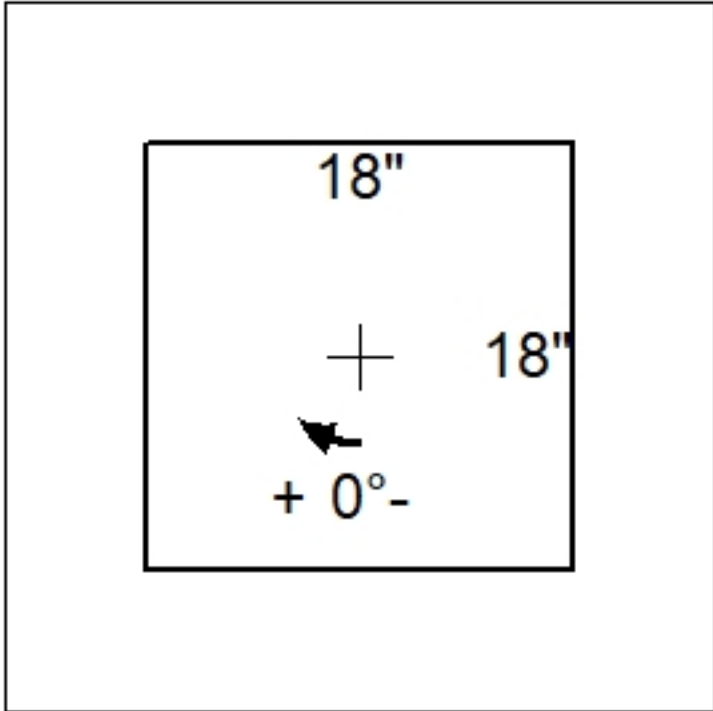
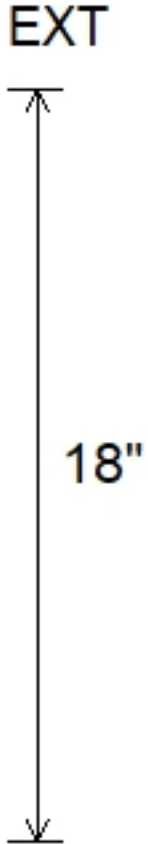
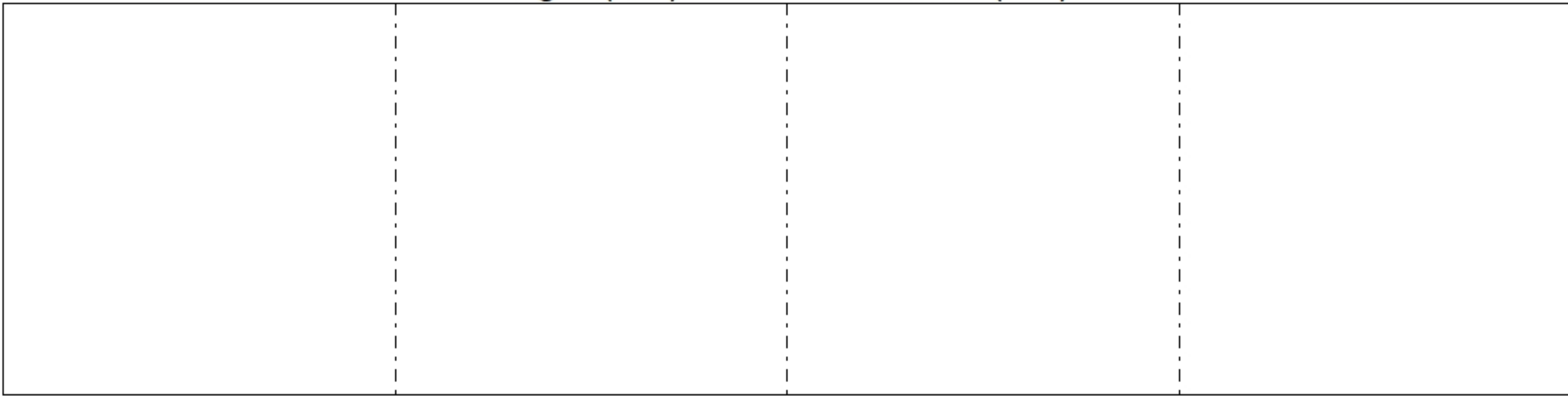
Coating (Int):
Coating (Ext):

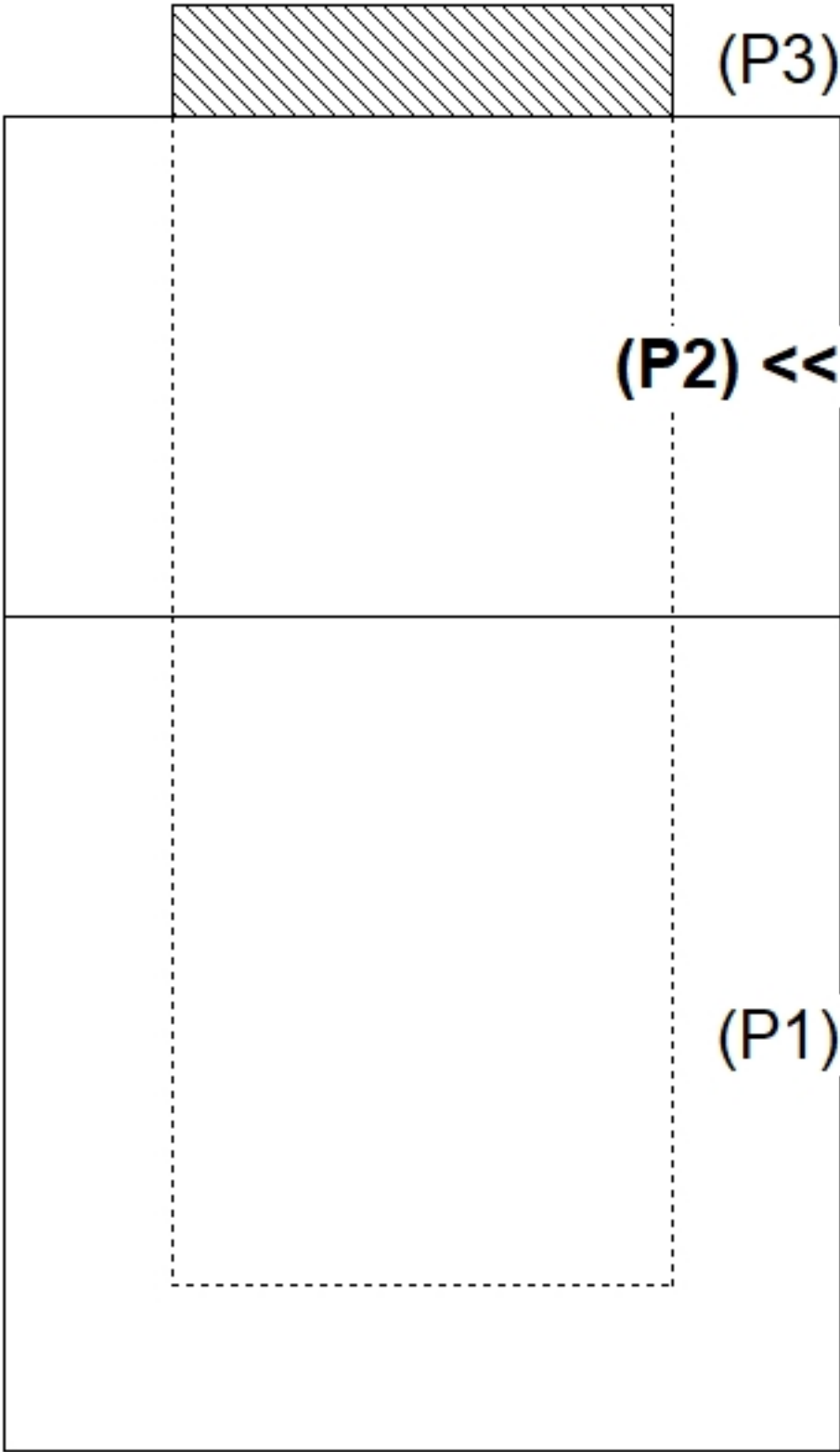
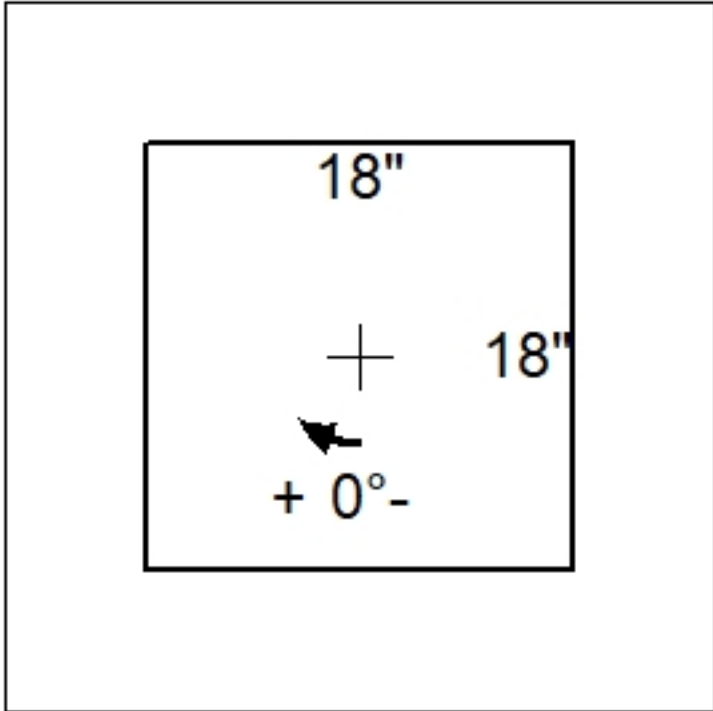
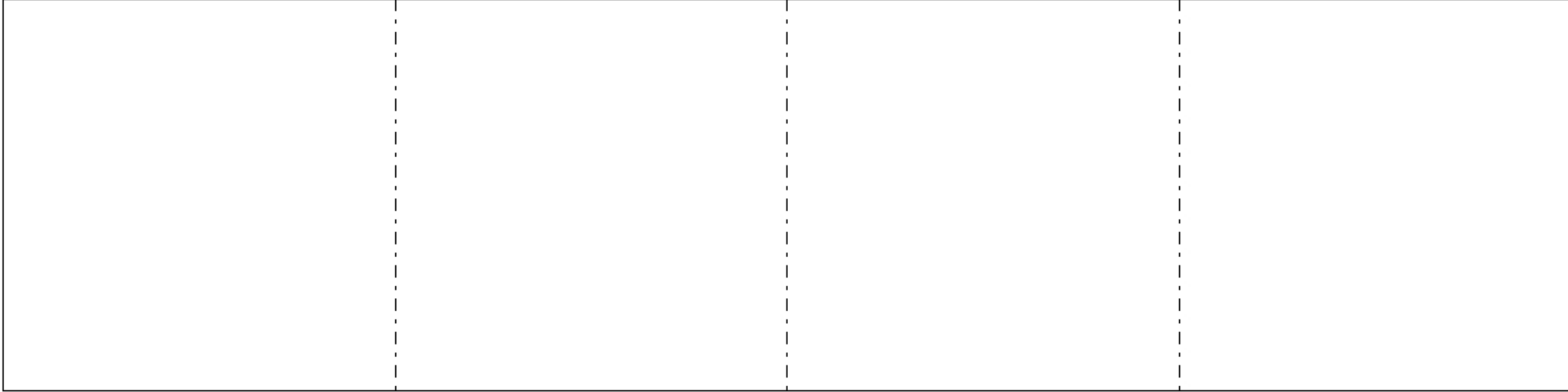
Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 31"
Height (Ext): 39"

Weight (Net): 4389 lb
Volume (Net): 1.12cu.yd

Job Name: 26-2119 512 W Kingston Ave MSD Job Location: Louisville, KY Contractor: TRC, LLC					Plant: Beaver Dam 7/16/2026 3:43:41 PM		Tech: S. Felletter PC: T. Lewis				
Structure ID: QL3 ST-CB 13											
P2		BX1818-06R18			BOX RISER 6inW F/F						
P3) 18" x 18" - CASTING HEIGHT - 4" P2) 18" x 18" - BOX RISER 6inW F/F - 18" P1) 18" x 18" - KNOCKOUT BASE 6"W/F - STOCK F/n - 24" 1) CASTING - HOE 165A F/G 2) 18" x 18" - Conseal CS-102 1.00"						0 lb 870 lb 1613 lb 138 lb 0 lb ----- 2621 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 165-A F/G). . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 3.833' Rim to Invert: 0' Slack: 0" Sump: 46" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (┘)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
(P2)		Front Right (18") Back (18") Left									
											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 6" Floor Height: 0"		Height (Int): 18" Height (Ext): 18"		Weight (Net): 870 lb Volume (Net): 0.22cu.yd	

Job Name: 26-2119 512 W Kingston Ave MSD Job Location: Louisville, KY Contractor: TRC, LLC					Plant: Beaver Dam 7/16/2026 3:43:40 PM		Tech: S. Felletter PC: T. Lewis				
Structure ID: QL3 ST-CB 9											
P2		BX1818-06R18		BOX RISER 6inW F/F							
P3) 18" x 18" - CASTING HEIGHT - 4" P2) 18" x 18" - BOX RISER 6inW F/F - 18" P1) 18" x 18" - KNOCKOUT BASE 6"W/F - STOCK F/n - 24" 1) CASTING - HOE 165A F/G 2) 18" x 18" - Conseal CS-102 1.00"						0 lb 870 lb 1613 lb 138 lb 0 lb ----- 2621 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 165-A F/G). . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 3.833' Rim to Invert: 0' Slack: 0" Sump: 46" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (┘)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
(P2)		FrontRight (18")Back (18")Left				EXT 18"					
											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 6" Floor Height: 0"		Height (Int): 18" Height (Ext): 18"		Weight (Net): 870 lb Volume (Net): 0.22cu.yd	

Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018)

Job Location: Hopkinsville, KY

Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam

6/26/2026 7:35:50 AM

Tech: J. Horsley

PC: C. Goff



Structure ID: 209

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht F/n

P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"

P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"

P2) 24" x 36" - FIELD ADJUSTMENT - 3"

P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 32"

1) CASTING - HOE KY-206 F/C (KY TY1)

1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast)

2) 24" x 36" - Conseal CS-102 1.00"

2) Hole - 24

1) Hole - 22

1) Hole - 6

3400 lb

5270 lb

0 lb

3984 lb

206 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 12860 lb

Structure Notes:

** KYTC STATE PROJECT **

STATION: 413+95 LT

1. PER KYTC CBI TYPE A / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

4. HOE KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP

Rim: 561.2'

Rim to Invert: 5.28'

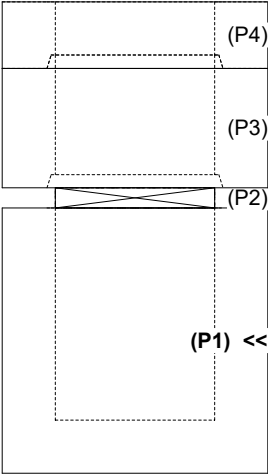
Slack: 0.36"

Sump: 0"

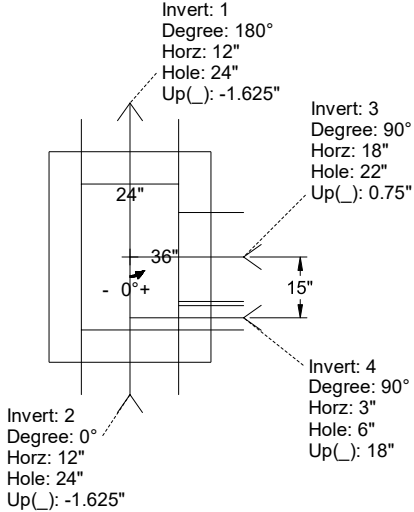
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	555.92'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2	555.92'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 3	556.17'	90°	26"	15" RCP B WALL	19.5"	Hole 22	22"	22"	0.75"	0"
Invert 4	557.45'	90°	11"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	18"	-15"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

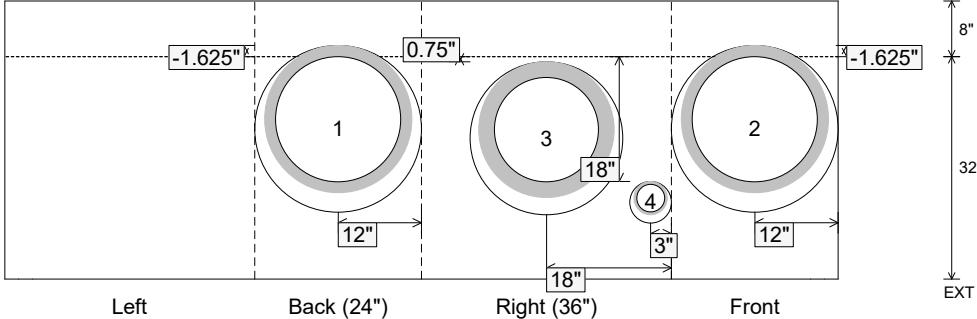
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 32"

Height (Ext): 40"

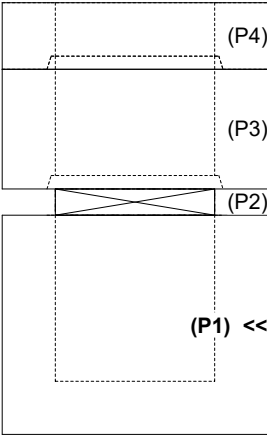
Weight (Net): 3984 lb

Volume (Net): 1.02cu.yd



Weight (Net): 7153 lb
Volume (Net): 1.83cu.yd

Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018) Job Location: Hopkinsville, KY Contractor: Scotty's Contracting & Stone, LLC					Plant: Beaver Dam 6/26/2026 7:35:54 AM		Tech: J. Horsley PC: C. Goff				
Structure ID: 216											
P1		BX2436-08BVF		BOX BASE 8inW, 8inF, Variable Ht F/n							
P4) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10" P3) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18" P2) 24" x 36" - FIELD ADJUSTMENT - 4" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 25" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast) 2) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 22 1) Hole - 6						3398 lb 5270 lb 0 lb 3678 lb 206 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: ** KYTC STATE PROJECT ** STATION: 417+90 LT 1. PER KYTC CBI TYPE A / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP			
Rim: 555.44' Rim to Invert: 4.75' Slack: 0" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	550.69'	270°	21"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	-5"	
Invert 2	551.69'	270°	41"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	11.625"	15"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

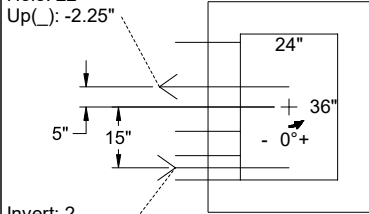


(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

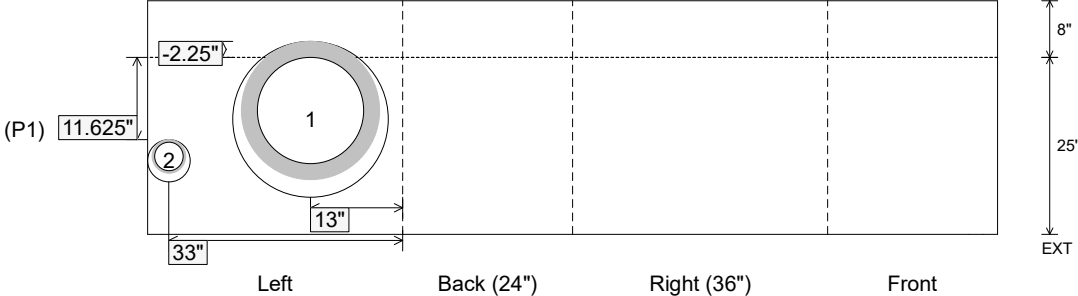
UPSIDE-DOWN VIEW (int. dimenions)

Invert: 1
Degree: 270°
Horz: 13"
Hole: 22"
Up(): -2.25"



Invert: 2
Degree: 270°
Horz: 33"
Hole: 6"
Up(): 11.625"

INSIDE WALL DIMENSIONS



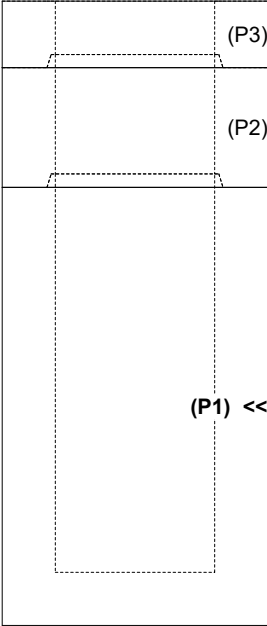
Left Back (24") Right (36") Front

EXT 8" 25"

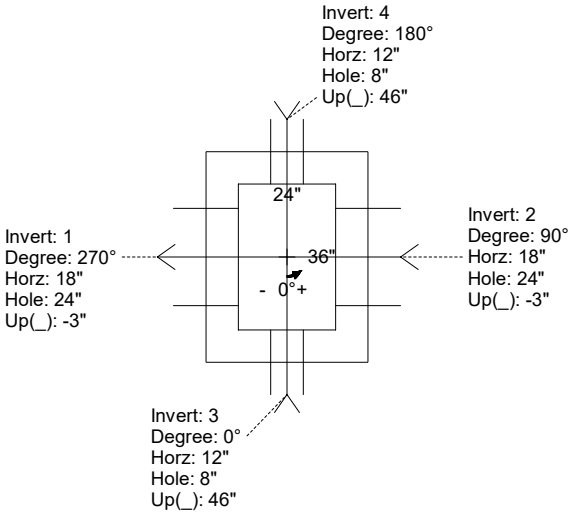
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 25" Height (Ext): 33"	Weight (Net): 3678 lb Volume (Net): 0.94cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt				Plant: 100 6/4/2026 4:52:23 PM		Tech: Jared - A PC: J. Jarvis						
Structure ID: 559												
P1 BX2436-08BVF				BOX BASE 8inW, 8inF, Variable Ht T/n								
P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10" P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 58" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast) 1) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 24 2) Hole - 8						3398 lb 5270 lb 6640 lb 206 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 15513 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC CBI TY A / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. NO STORM INVERT 5. NO STEPS 6. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP				
Rim: 840.34' Rim to Invert: 7.23' Slack: 0.76" Sump: 0" Step Position:												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	833.11'	270°	26"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"		
Invert 2	833.11'	90°	26"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"		
Invert 3	837.11'	0°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	46"	0"		
Invert 4	837.11'	180°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	46"	0"		
Invert 5												
Invert 6												
Invert 7												
Invert 8												

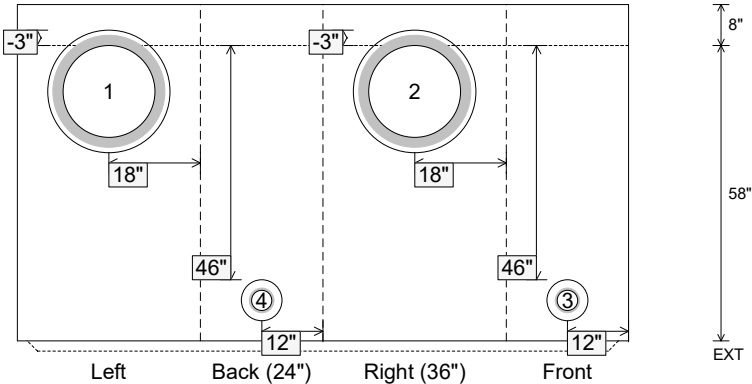
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 58" Height (Ext): 66"	Weight (Net): 6640 lb Volume (Net): 1.7cu.yd
----------------------------------	---------------------------------	--	--	---

Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 8:23:04 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: CB-29

P1 BX3232-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

- P2) 32" x 32" - CASTING HEIGHT - 7"
P1) 32" x 32" - BOX BASE 8inW, 8inF, Variable Ht - 41"
1) CASTING - JBS-3123 MODIFIED SET
1) 32" x 32" - Conseal CS-102 1.00"
2) Hole - 26
1) Hole - 6

Structure Notes:
1. PER TDOT D-CB-12LP / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. JBS 3123 MOD SINGLE SET BY ICAST
4. REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .62) #5 BARS AT 6" C.C.E.W.
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

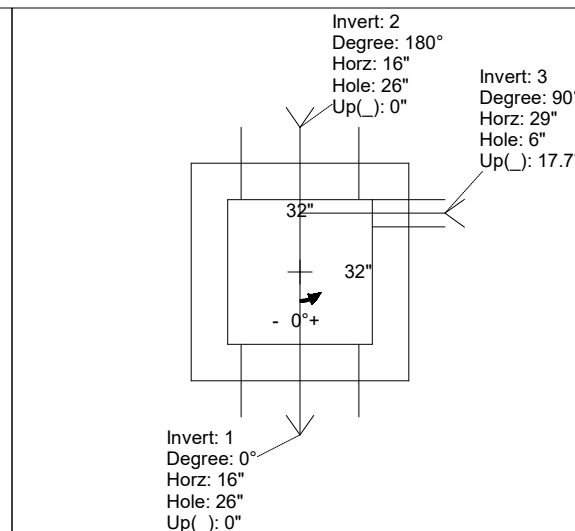
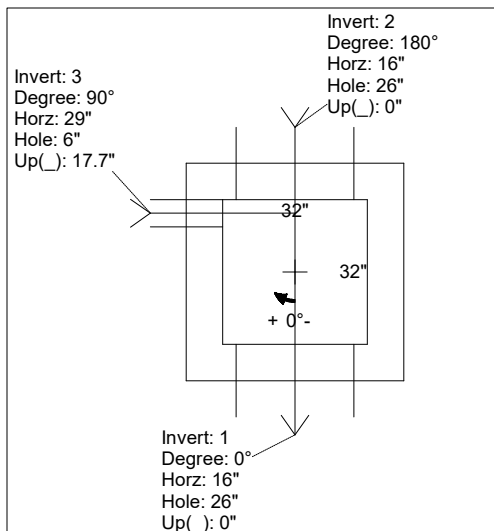
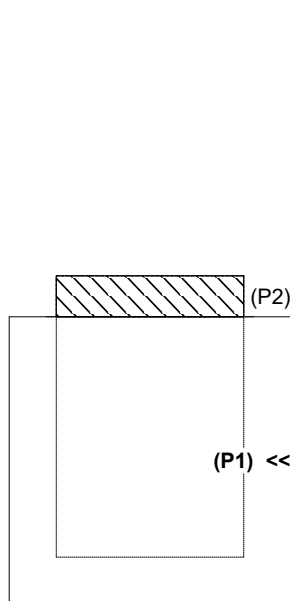
Structure Total: 5473 lb

Rim: 809.05' Rim to Invert: 3.8' Slack: 0.1" Sump: 2.5" Step Position:

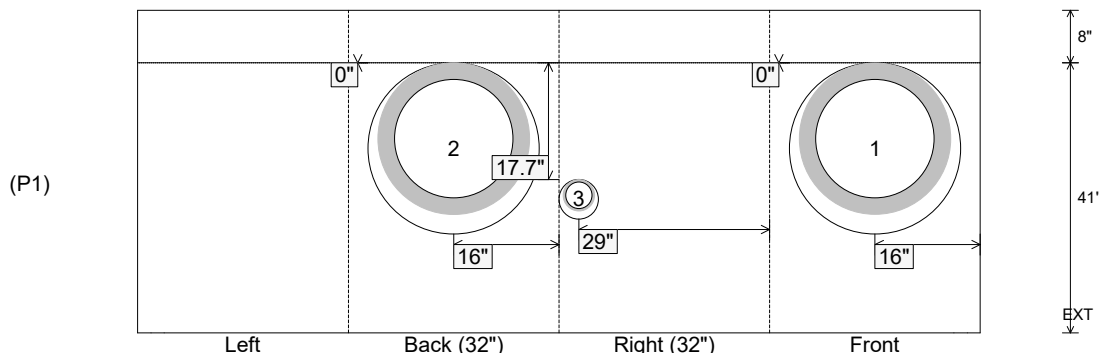
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	805.25'	0°	24"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 2	805.25'	180°	24"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 3	806.55'	90°	37"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	17.7"	13"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



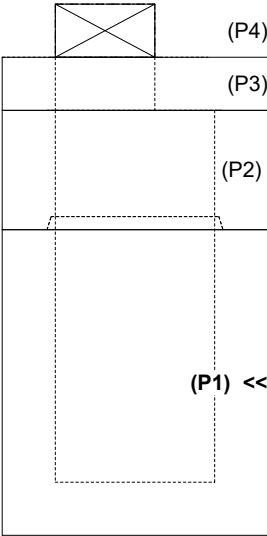
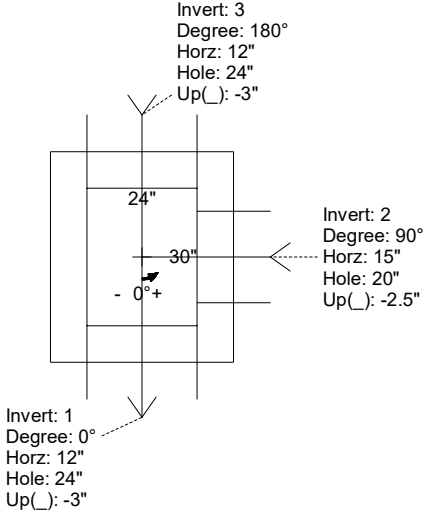
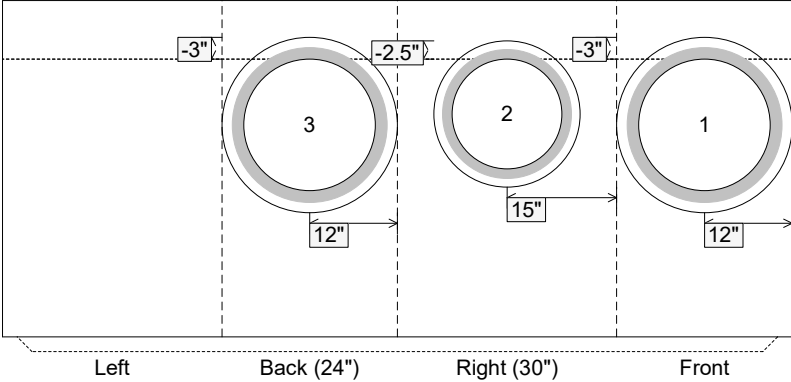
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

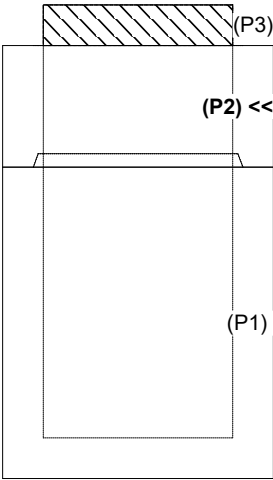
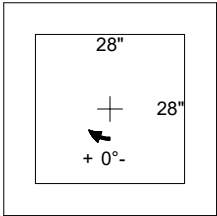
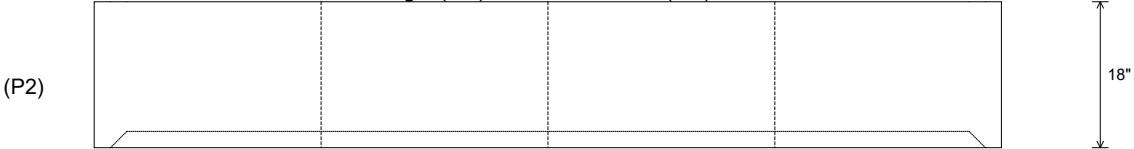
Wall Thickness: 8"
Floor Height: 8"

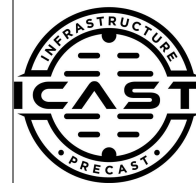
Height (Int): 41"
Height (Ext): 49"

Weight (Net): 5223 lb
Volume (Net): 1.33cu.yd

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315) Job Location: Indiana, KY Contractor: Louisville Paving and Construction					Plant: 100 6/12/2026 3:09:56 PM		Tech: J. Horsley - A PC: J. Jarvis				
Structure ID: 60											
P1 BX24300808VF BOX BASE 8inW, 8inF, Variable Ht T/n											
P4) 15" x 27" - P.I.P. - BY OTHERS - 8" P3) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8" P2) 24" x 30" - BOX RISER 8inW F/G - 18" P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht T/n - 38" 2) 24" x 30" - Conseal CS-102 1.00" 1) 15" x 27" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 20 2) Hole - 4						0 lb 963 lb 1675 lb 4140 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- 0 lb Structure Total: 6778 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-230G FRAME & GRATE SUPPLIED BY OTHERS - POURED IN PLACE BY OTHERS			
Rim: 551.92' Rim to Invert: 6.08' Slack: 0.96" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	545.84'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"	
Invert 2	545.84'	90°	23"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"	
Invert 3	545.84'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimensions) 											
INSIDE WALL DIMENSIONS 											

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply				Plant: 100 6/15/2026 10:59:00 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: C2 ST-CB										
P1 BX28280606VH				BOX BASE 6inW, 6inF, Variable Ht T/n						
P3) 28" x 28" - CASTING HEIGHT - 6" P2) 28" x 28" - BOX RISER 6inW F/G - 18" P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht T/n - 40" 2) 28" x 28" - Conseal CS-102 1.00" 1) Hole - 14"						0 lb 1232 lb 3467 lb 0 lb 0 lb ----- 0 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING SUPPLIED BY OTHERS (JBS 4300 F/G). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.		
Rim: 426.82' Rim to Invert: 5.38' Slack: 0.56" Sump: 0" Step Position:						Structure Total: 4699 lb				
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	421.44'	0°	20"	10" HDPE	11.4"	Hole 14	14"	14"	-0.75"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										
RIGHT-SIDE UP VIEW (int. dimensions) UPSIDE-DOWN VIEW (int. dimenions)										
INSIDE WALL DIMENSIONS										
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 6" Floor Height: 6"		Height (Int): 40" Height (Ext): 46"		Weight (Net): 3467 lb Volume (Net): 0.89cu.yd	

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply					Plant: 100 6/15/2026 10:59:50 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: C2 ST-CB											
P2 BX2828-06R18			BOX RISER 6inW F/G								
P3) 28" x 28" - CASTING HEIGHT - 6" P2) 28" x 28" - BOX RISER 6inW F/G - 18" P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht T/n - 40" 2) 28" x 28" - Conseal CS-102 1.00" 1) Hole - 14						0 lb 1232 lb 3467 lb 0 lb 0 lb ----- 4699 lb Structure Total:		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING SUPPLIED BY OTHERS (JBS 4300 F/G). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 426.82' Rim to Invert: 5.38' Slack: 0.56" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 18" Height (Ext): 18"		Weight (Net): 1232 lb Volume (Net): 0.32cu.yd	



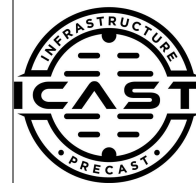
Weight (Net): 411 lb
Volume (Net): 0.1cu.yd



Weight (Net): 411 lb
Volume (Net): 0.1cu.yd



Weight (Net): 411 lb
Volume (Net): 0.1cu.yd



Weight (Net): 411 lb
Volume (Net): 0.1cu.yd

Plant: Beaver Dam

7/21/2026 8:50:22 AM

Tech:	S. Felletter
PC:	A. Chambers



GRADE RING 6"W F/F

411 lb
411 lb
411 lb
411 lb
411 lb
411 lb
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411 lb
411 lb
411 lb
411 lb
411 lb
411 lb
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411 lb
411 lb
411 lb
411 lb
411 lb

Structure Notes:

- 1. PER ASTM C913 SPECIFICATIONS.
- 2. CONCRETE = 4,000 PSI AT 28 DAYS.

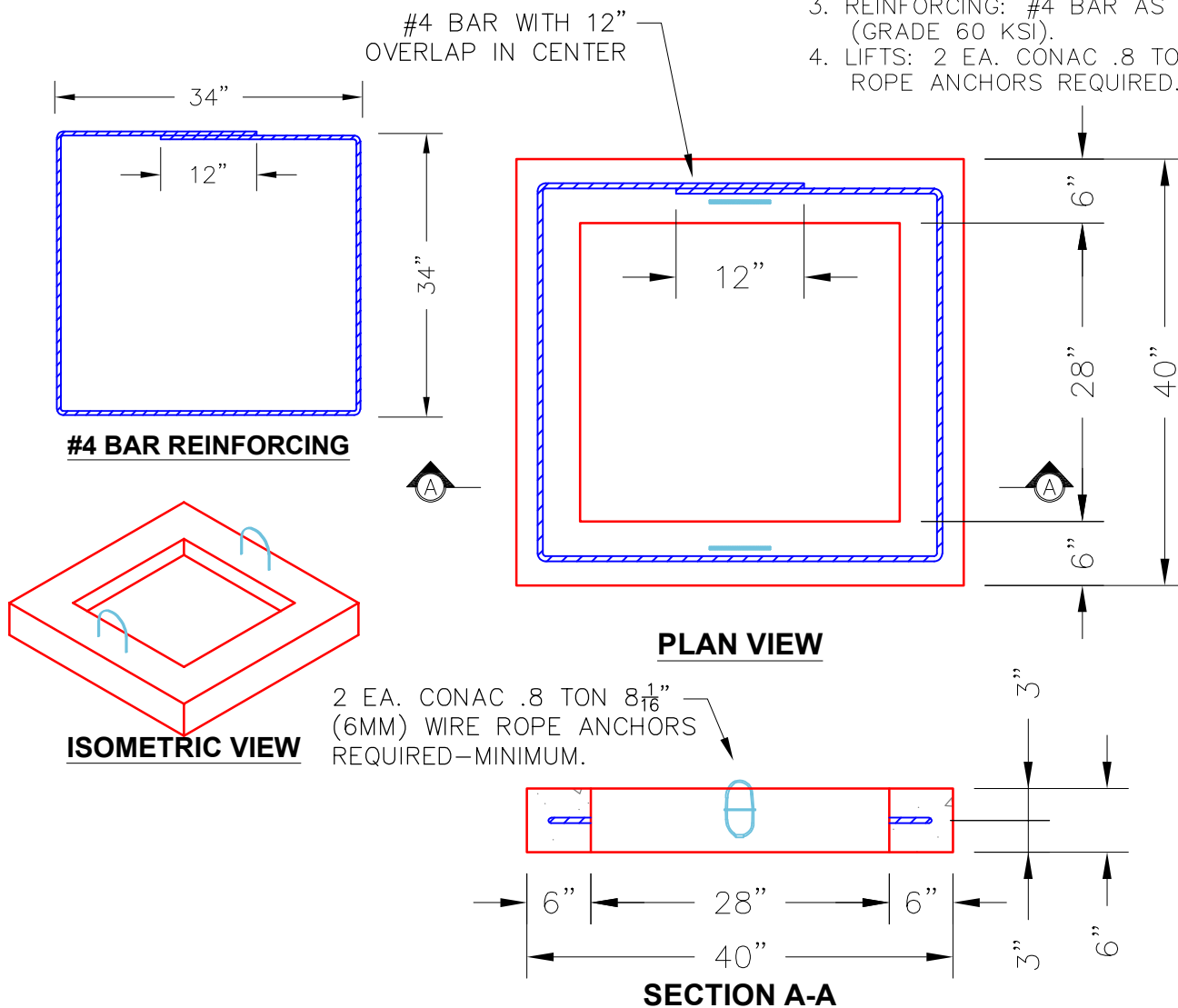
REINFORCING PER ASTM A615 (GRADE 60).

- WALLS (As .31) #5 BARS AT 12" C.C.E.W.

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE = 4,000 PSI @ 28 DAYS.
3. REINFORCING: #4 BAR AS SHOWN (GRADE 60 KSI).
4. LIFTS: 2 EA. CONAC .8 TON WIRE ROPE ANCHORS REQUIRED.

Structure Total: 9449 lb



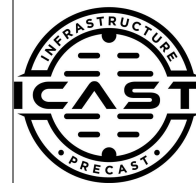
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 411 lb
Volume (Net): 0.1cu.yd



Weight (Net): 411 lb
Volume (Net): 0.1cu.yd

Plant: Beaver Dam

7/21/2026 8:50:23 AM

Tech:	S. Felletter
PC:	A. Chambers



GRADE RING 6"W F/F

411 lb
411 lb
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411 lb

Structure Notes:

- 1. PER ASTM C913 SPECIFICATIONS.
- 2. CONCRETE = 4,000 PSI AT 28 DAYS.

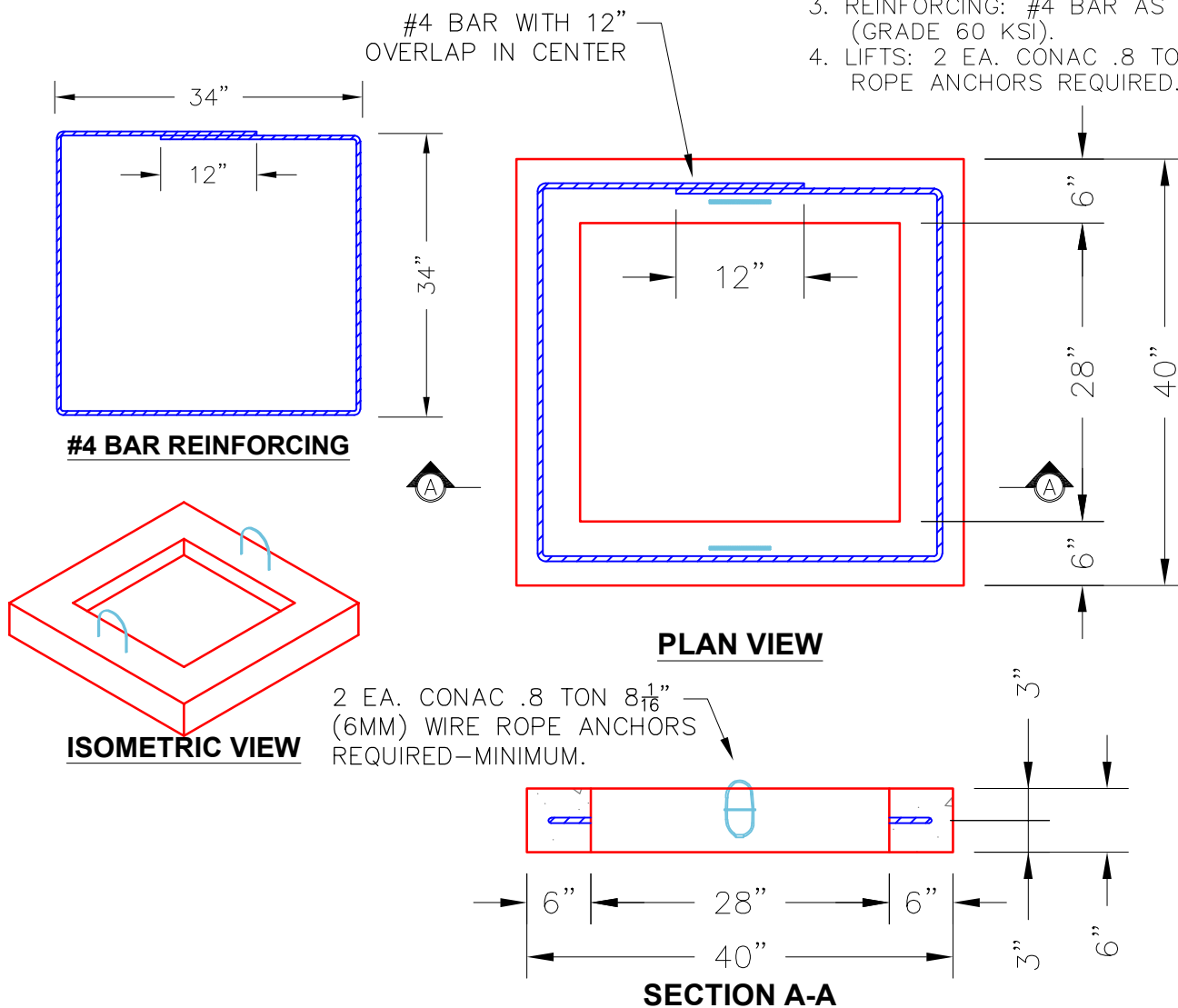
REINFORCING PER ASTM A615 (GRADE 60).

- WALLS (As .31) #5 BARS AT 12" C.C.E.W.

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE = 4,000 PSI @ 28 DAYS.
3. REINFORCING: #4 BAR AS SHOWN (GRADE 60 KSI).
4. LIFTS: 2 EA. CONAC .8 TON WIRE ROPE ANCHORS REQUIRED.

Structure Total: 9449 lb



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

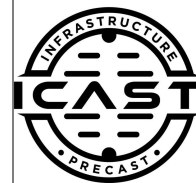
Height (Ext): 6"

Weight (Net): 411 lb
Volume (Net): 0.1cu.yd

Plant: Beaver Dam

7/21/2026 8:50:24 AM

Tech:	S. Felletter
PC:	A. Chambers



GRADE RING 6"W F/F

411 lb
411 lb
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411 lb
411 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.

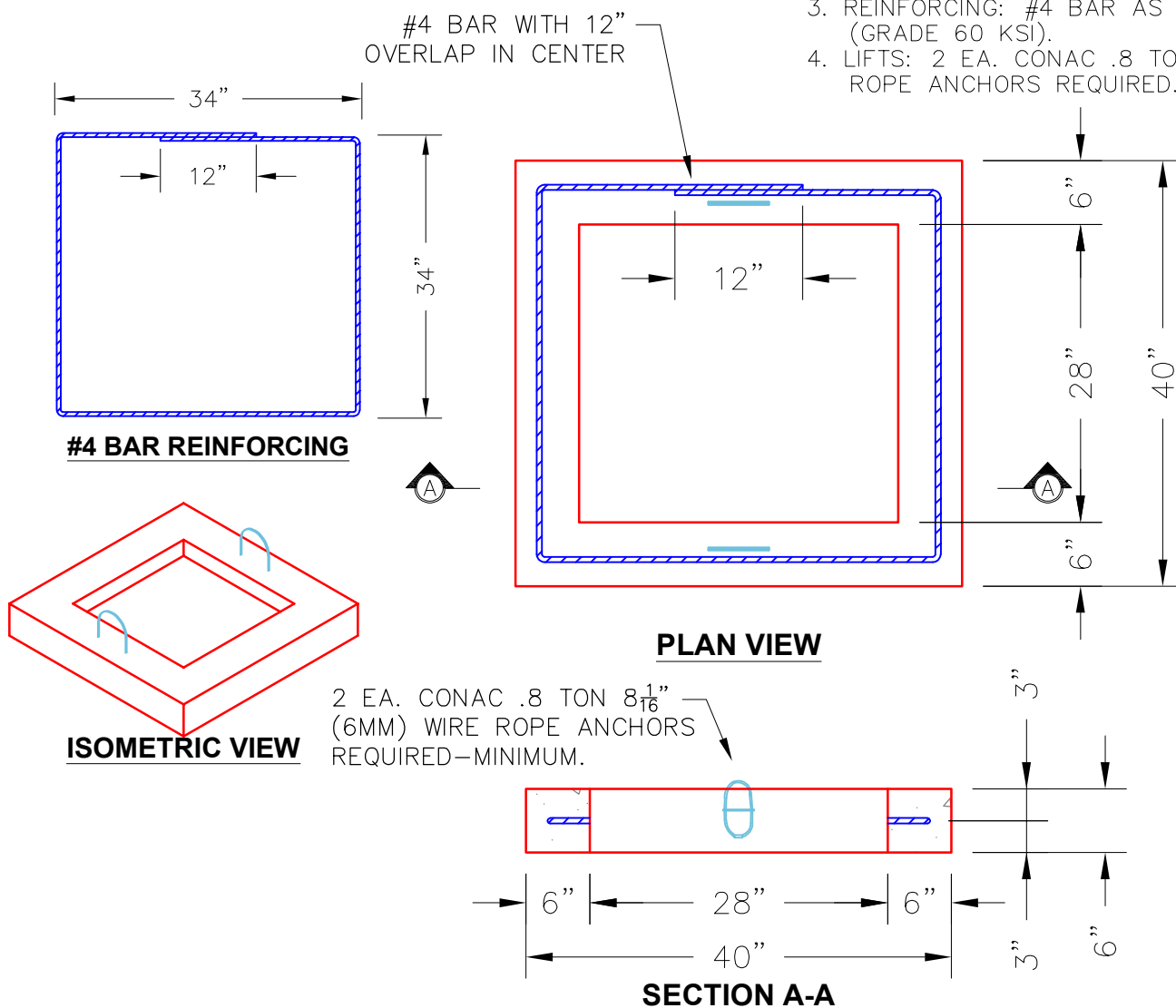
REINFORCING PER ASTM A615 (GRADE 60).

- WALLS (As .31) #5 BARS AT 12" C.C.E.W.

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE = 4,000 PSI @ 28 DAYS.
3. REINFORCING: #4 BAR AS SHOWN (GRADE 60 KSI).
4. LIFTS: 2 EA. CONAC .8 TON WIRE ROPE ANCHORS REQUIRED.

Structure Total: 9449 lb



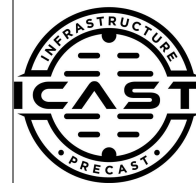
Coating (Int):	
Coating (Ext):	

Seam Up: Flat
Seam Dn: Flat

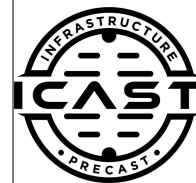
Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 411 lb
Volume (Net): 0.1cu.yd



Weight (Net): 411 lb
Volume (Net): 0.1cu.yd



ISOMETRIC VIEW

SECTION A-A

Weight (Net): 411 lb
Volume (Net): 0.1cu.yd

Structure ID: 2 (3)

P1 HWA15F 15" - HW AW w/FLAT BOTTOM F/F

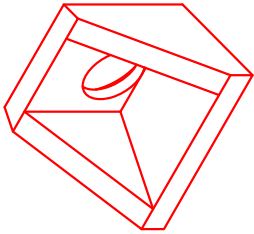
DIMENSIONS									
TYPE	PIPE Ø	A	B	C	D	E	F	G	WEIGHT
AW	15"	2'-8"	4'-0"	2'-6"	2'-2"	2'-0"	6"	2'-8"	1,285 LBS

GENERAL NOTES:

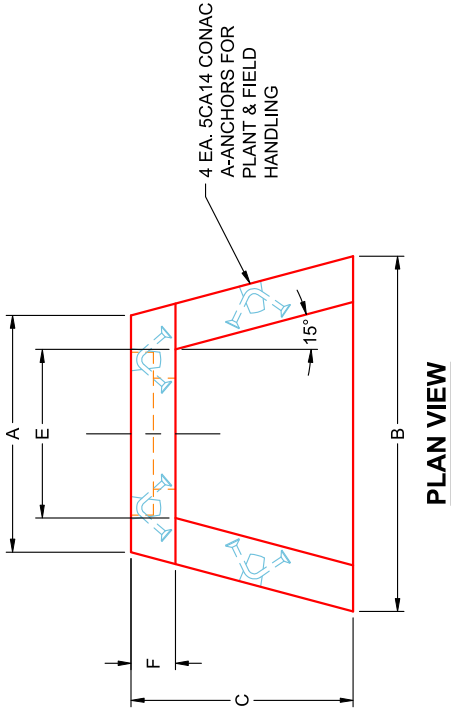
1. CONCRETE: 4,500 PSI AT 28 DAYS

2. REINFORCING: #4 BAR @ 12" C.C. E.W.
(GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

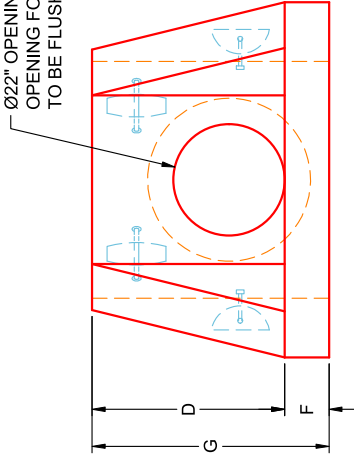
3. REINFORCING BARS TO BE TACK WELDED OR TIED



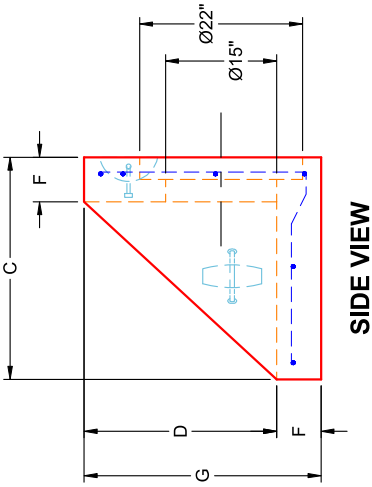
ISOMETRIC VIEW



PLAN VIEW



FRONT VIEW



SIDE VIEW

PRODUCT I.D.: HWA15F

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY

WEIGHT: 1,285 LBS

TOP SECTION JOINT: N / A

BASE SECTION JOINT: N / A

QC CHECK INITIALS:

PRODUCTION WORK ORDER

QUALITY CONTROL CHECKLIST

☐ ALL DIMENSIONS CORRECT.

☐ LIFTERS INSTALLED.

☐ STEPPED HOLE FORMER CORRECT SIZE.

☐ REINFORCING CORRECT.

☐ CLEARANCE ON REINFORCING CORRECT.

☐ EDGES CHAMFERED.

☐ ALL PATCHWORK ACCEPTABLE.



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DESCRIPTION: 15" AW HEADWALL W/ FLAT BOTTOM

CUSTOMER: HAYES PIPE SUPPLY

PROJECT: 314 OLD NASHVILLE HWY

STRUCTURE: 2 (3)

ORDER NO: 25-4694

PE: J.H. ROSS

DATE: 07/14/26

DRAWING: K. CARDWELL

SCALE: NTS

PG. 1 OF 1

Arcadia™ Hydrodynamic Separator Installation Guide

Concrete Manhole Installation

This installation guide is a reference for installing the Arcadia Water Quality unit into a precast concrete structure. These directions assume the manhole base and riser have been assembled, and that the top slab has not been set.

Note: Do not insert the inlet or outlet pipes until after the Arcadia internals have been installed. All pipes should sit flush inside the manhole. If pipes must be inserted in advance, the pipes should not protrude into the structure as they can interfere with installation of the Arcadia Internals.

Content

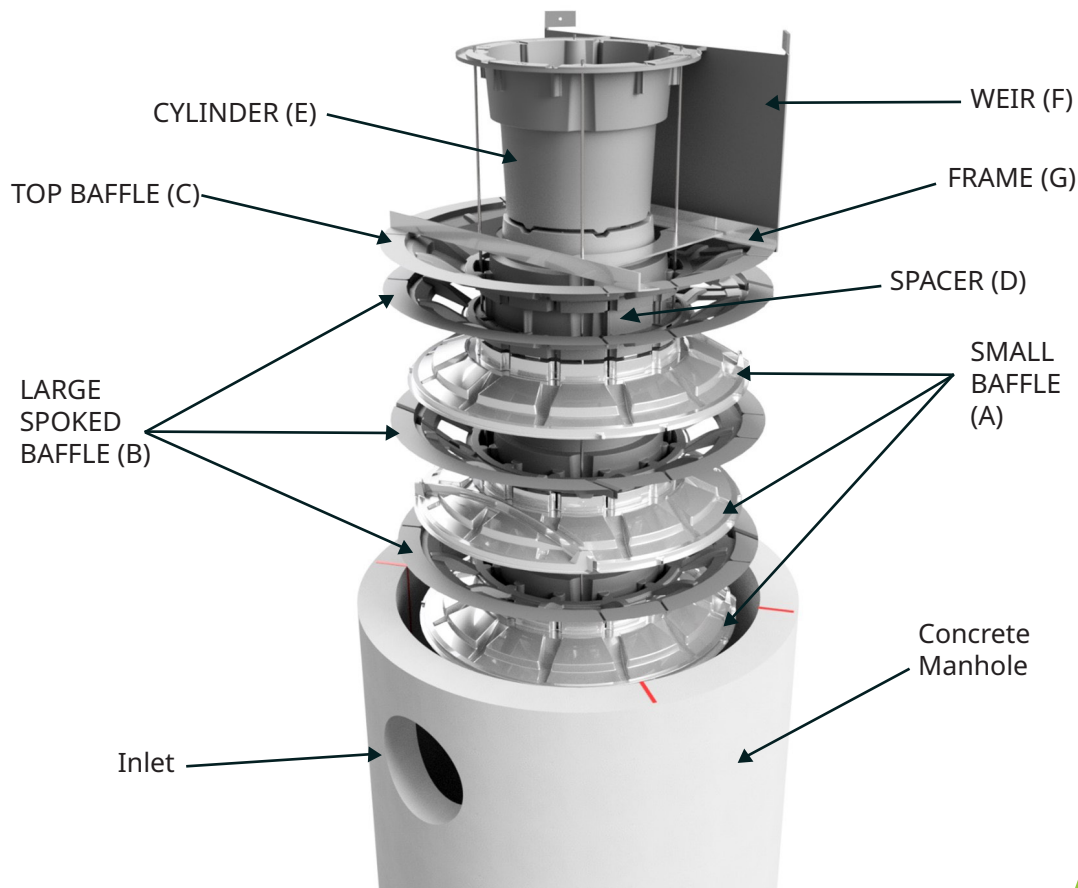
Section 1: Internal Components, Hardware & Tools

Section 2: Assembling Internal Components

Section 3: Mounting Brackets within Concrete Manhole Riser

Section 4: Transporting Assembled Arcadia Internals

Section 5: Installing Arcadia Internals into the Manhole – For Contactor/Jobsite



Section 1: Internal Components, Hardware and Tools



SMALL BAFFLE (A) Qty: 3



**LARGE SPOKED BAFFLE (B)
Qty: 3**



TOP BAFFLE (C) Qty: 1



SPACER (D) Qty: 1



CYLINDER (E) Qty: 1



WEIR (F) Qty: 1



FRAME (G) Qty: 1

Note: To separate baffles in shipping stack, pull from center of each baffle.

Hardware Provided by ADS



**Threaded Rod
(4 long and 4
short) Qty: 8**



**Washers
Qty: 12**



**Nuts
Qty: 12**



**Threaded
Coupling
Qty: 4**



Screws



**Bolts for frame
Assembly**



**Rod Caps
Qty: 4**



**Threadlocker
Capsules
Qty: 2**

Please set aside the following items that will later be delivered to the jobsite along with the assembled Arcadia Unit.

- Small Hardware package marked "Arcadia Installation, For Jobsite Contractor (Not for Precaster)".
- Conseal Roll(s).
- Copy of the Installation Guide

Other Tools Needed

- $\frac{9}{16}$ " (14.28 mm) or $\frac{3}{4}$ " (19.05 mm) Hand Wrench, depending on model size
- Phillips screwdriver or screw gun with Phillips bit
- 4 small hand clamps
- Pair of sawhorses

Section 2: Assembling Internal Components

1. Suggested procedure to facilitate assembly:
 - Utilize a set of sawhorses to support the initial assembly.
 - Set the spacing between the sawhorses (outside distance, see **figure 1**) according to the table below.

Arcadia Model	Spacing in (mm)
AR3	10 (250)
AR4	15 (375)
AR5	17 (425)
AR6	19 (475)
AR8	25 (625)

2. Place one SMALL BAFFLE (A) on the saw horses with the molded word "UP" readable and facing upward."

*Note: Throughout this procedure, as you stack up the baffles, make sure to align the molded word UP for each layer. For each baffle, UP should be readable and aligned with previous layers shown in **figure 2**.*

3. Rotate the baffle as needed to ensure the word UP is aligned with that of the previous baffle, then slide one LARGE SPOKED BAFFLE (B) down the threaded rods until it rests on the previous part, as shown in **figure 3**. Each part mates with the previous part in only one orientation.
4. Place another SMALL BAFFLE (A) on top of the previous part, as shown in **figure 4**. There should now be a total of three (3) baffles in place (two SMALL BAFFLES (A) and one LARGE SPOKED BAFFLE (B)).

Note: The long threaded rods will not reach up to the third baffle yet.

5. One at a time, grasp each of the long threaded rods and feed / pull up through the three baffles until the washer end is tight against the underside of the bottom baffle. Place a hand clamp on each long threaded rod against the top-most baffle to hold it in position, as shown in **figures 5 and 6**.
6. Carefully lower the entire assembly to floor level. If picking up by hand, this is most easily done by grasping two of the long threaded rods in between baffles.
7. Once on the floor, remove all 4 clamps and allow long threaded rods to rest on the floor.

Scan the QR Code
to watch the
Arcadia
installation video



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

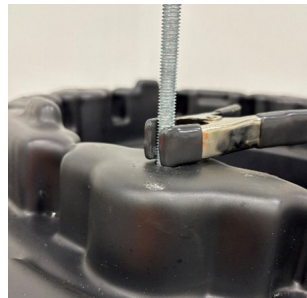


Figure 6



8. Repeat steps 2 & 3 once, then step 2 once more, such that two more LARGE SPOKED BAFFLE (B) and one more SMALL BAFFLE (A) have been added, for a total of six baffles, as shown in **figure 7**.
9. If SPACER (D) is supplied, slide it down the long threaded rods until it rests on the previous part. The SPACER (D) flange should be oriented down, as shown in **figure 8**.

Note: there is no SPACER (D) provided for the 3' (0.9 m) diameter unit (AR3) and the 6' (1.8 m) diameter unit (AR6). For these two sizes, skip this step.

10. Slide TOP BAFFLE (C) down the long threaded rods until it rests on the previous part, as shown in **figure 9**. Each part mates with the previous part in only one orientation. Check that the molded word UP, on the outer edge is readable, facing upward, and aligned with the word UP on the previous part before sliding down the rods into position.
11. Grasping each long threaded rod between baffles, push each rod up until the washer is once again snug at the bottom of the stack, as shown in **figure 10**. Hand snug a washer and nut to each long threaded rod with a wrench.

Note: Recommended to hold the nut with the wrench and turn the threaded rod to snug.

12. **Two people are needed for this step.** Assemble FRAME (G) by bolting the 4 metal pieces with provided short bolts, nuts & washers. As shown in **figure 11 and 12**.
13. Slide FRAME (G) onto the threaded rods until it rests flat on TOP BAFFLE (C). Orient FRAME (G) so that it aligns parallel to the flat portion of TOP BAFFLE (C), as shown in **figure 13**.

Note: Make sure the frame is installed upright, with the angled bends pointing upward, as shown in figure 13.

14. Add another washer and nut to each of the long threaded rods above FRAME (G). Do not screw the nut all the way down. Then, attach a threaded coupling at the top end of each long threaded rod. Screw it down until the top of the coupling is flush with the top of the threaded rod. Leave the nut just below the coupling, as shown in **figure 14**. (This is to facilitate step 17.)

Figure 7



Figure 8

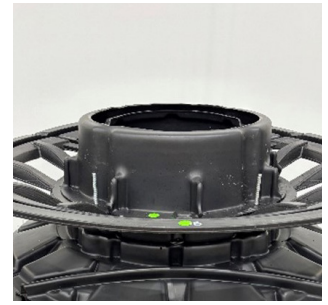


Figure 9



Figure 10



Figure 11



Figure 12

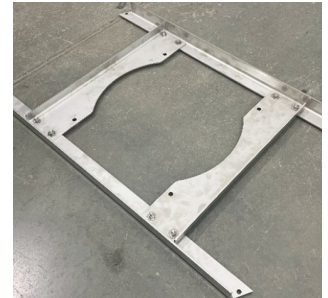


Figure 13

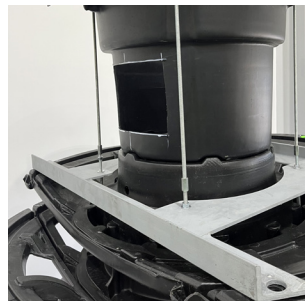


Figure 14



15. Place a washer and nut onto the end of the four short threaded rods, screwing about 3" (75 mm) down. Orient CYLINDER (E) with the flange facing up, feed the rods from the top through the holes in the CYLINDER (E) until the nuts rest on top of the CYLINDER, as shown in **figure 15**.
16. Place CYLINDER (E) assembly on top of TOP BAFFLE (C). Each part mates with the previous part in only one orientation. Check that flat side of the flange of CYLINDER (E) is aligned with the flat side of the TOP BAFFLE (C) as shown in **figure 16**. Attach the bottom end of the 4 short threaded rods to each threaded coupling at the top of the 4 long threaded rods. Hand tighten snug by twisting the long and short threaded rods in opposite directions.
17. Secure CYLINDER (E) onto each of the 4 short threaded rods with a washer and nut at the top. Hand snug with wrench.
18. Slide WEIR (F) into top slot with the curved edge down. Ensure WEIR (F) is centered in the slot. To easily insert WEIR (F), push one end home and secure lower corner of WEIR (F) to TOP BAFFLE (C) with a screw, as shown in **figures 17 and 18**; then push the other end home and secure with screw. For the 8' (2.4 m) diameter unit (AR8), add additional screws into the slot and through the bottom of the weir at approximately the middle, 1/4, and 3/4 positions.
19. Screw down and hand snug the nuts to the steel FRAME (G) with a wrench. Also hand snug the nuts to the top of the CYLINDER (E), and to the top of the TOP BAFFLE (C) if they have loosened. Add a drop of Threadlocker to the rod threads near each nut before final tightening.
20. Secure the top of WEIR (F) with three screws into CYLINDER (E), as shown in **figure 19**.
21. Attach Rod Caps to the top of each threaded rod, on top of the unit.
22. The finished assembly should appear as shown in **figure 20**.

Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Section 3: Mounting Brackets within Concrete Manhole Riser

Materials provided by ADS

- Mounting Template (Qty: 1)
- Brackets (Qty: 4)
- ¼" (6.35 mm) Diameter 20 thread size,
3 ¼" (82.55 mm) wedge anchors (Qty: 4)

Other Tools Needed

- Drill
 - ¼" (6.35mm) Masonry drill bit
 - Hammer
 - 7/16" (11.11 mm) socket or wrench
 - Masking Tape
 - Rigging
1. Use one of the 3 methods below to locate and mark the elevation and center line for each of the 4 brackets.
 - a. Mounting Template Method:
 1. Position top of template to match the outlet pipe invert elevation.
 2. Align centerline of template with the center of the outlet pipe hole.
 3. Spread template along inner circumference of the manhole wall, maintaining level. Affix with tape as you proceed. Check level as you proceed.
 4. Mark bracket elevations and centerlines at bottom of template.
 5. Remove template.
 - b. Angular Dimensions Method:
 1. From the outlet invert, measure depth A (Table 1) and around B° and C° in each direction to locate the top of each bracket. Mark top of bracket.
 - c. Linear Dimensions Method:
 1. From the outlet invert, measure depth A (Table 2) and around the inside arc B" and C" in each direction to locate the top of each bracket. Mark top of bracket. Crosscheck outlet invert elevations from approved job specific drawings.

Figure 22

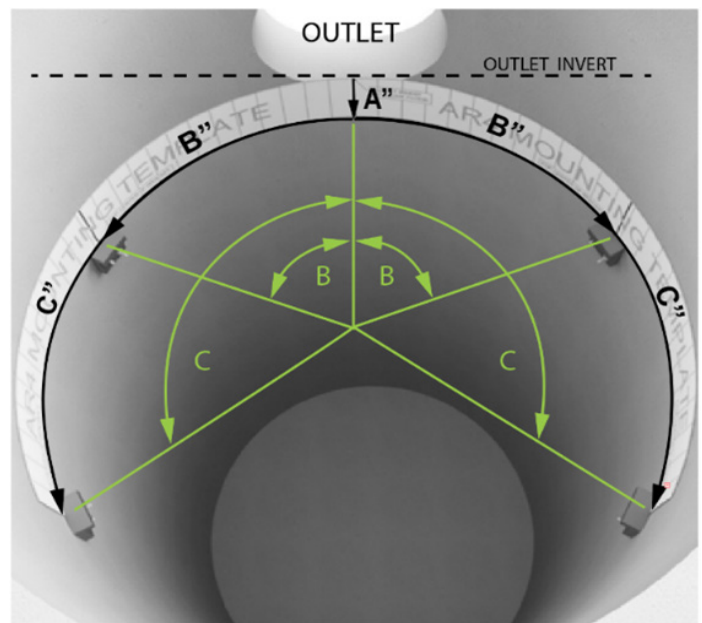


Table 1: Angular Measurements

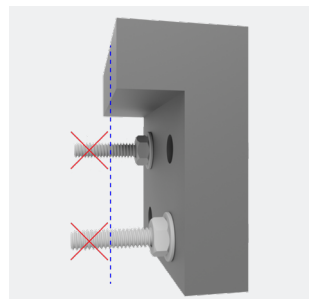
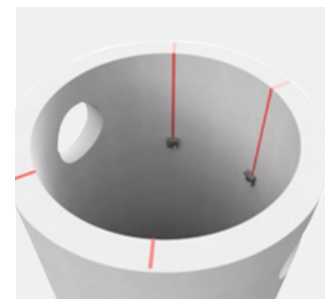
Arcadia Model	A. Depth from Outlet Invert in (mm)	B. Angle from Outlet Center	C. Angle from Outlet Center
AR3	4 1/2 (114.3)	65°	115°
AR4	5 1/2 (139.7)	60°	120°
AR5	6 (150)	65°	115°
AR6	6 1/2 (165.1)	60°	120°
AR8	8 (200)	60°	120°

Table 2: Linear Measurements

Arcadia Model	A. Depth from Outlet Invert in (mm)	B. Measurement from Outlet Center in (mm)	C. Measurement from Outlet Center in (mm)
AR3	4 1/2 (114.3)	20 3/8 (517.5)	36 1/8 (917.6)
AR4	5 1/2 (139.7)	25 1/8 (638.1)	50 1/4 (1276.3)
AR5	6 (150)	34 (850)	60 1/8 (1527.2)
AR6	6 1/2 (165.1)	37 3/4 (958.8)	75 1/2 (1917.7)
AR8	8 (200)	50 1/4 (1276.3)	100 1/2 (2552.7)

- Hold bracket in position in manhole at locations indicated. Mark anchor holes for each bracket as shown in **figure 23**.
- Drill two 1/4" (6.35 mm) holes per bracket, 2 1/2" (63.5 mm) deep. Diagonal holes are recommended. Extra holes provided if needed as shown in **figure 24**.
- Attach 4 brackets to manhole at positions marked, aligned with top of bracket. Lightly hammer the anchors in place. Tighten the locking nuts to firmly secure brackets to the concrete. Trim any excess anchor that extends beyond the bracket edge as shown in **figure 25**.
- Extend center lines up the manhole wall to the top. Also extend lines across top edge. These center lines will be used by installers at the jobsite to align the unit during installation as shown in **figure 26**.

Note: These center lines are part of the bracket installation and should be made with a suitable marking device that can be easily seen, such as a level and marker, or chalk line.

Figure 23**Figure 24****Figure 25****Figure 26**

Section 4: Transporting Assembled Arcadia Internals

Placing assembled Arcadia inside concrete manhole riser section; Most common.

1. Choosing a segment of precast concrete manhole riser or base.

- For transport, choose a riser section that does not contain the mounting brackets, with the following minimum riser depths. This riser section will serve as shipping containment for the internals.
- The Arcadia internals will be permanently installed onto the mounting brackets at the jobsite. See Section 5.

2. Rigging Arcadia Internals for lifting.

- Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach at diagonally opposite arms.
- Appropriate rigging examples shown in **figures 27 and 28**.

3. Place Arcadia Internals within the riser segment using hoisting equipment.

4. Secure with strapping.

5. Along with the internals, be sure to also deliver the 3 additional items listed in the note below and seen in **figures 29 and 30**.

Note: Please deliver the following additional items to the jobsite along with the assembled Arcadia unit.

- Small hardware package marked "Arcadia Installation, For Jobsite Contractor (NOT FOR PRECASTER)"
- Conseal roll(s)
- Copy of the Installation Guide

Minimum Depth Transport Riser Section ft (m)	Arcadia Model
3 (0.9)	AR3
4 (1.2)	AR4, AR5, AR6
5 (1.5)	AR8
6 (1.8)	AR10

Figure 27



Figure 28

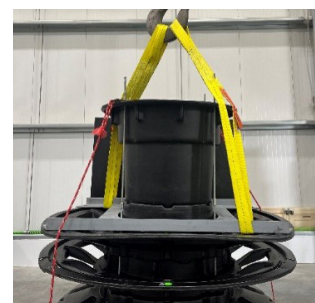


Figure 29



Figure 30



Transporting without a concrete riser?
Contact ADS for guidance.

Table 4: Arcadia Separator Internals Weight Once Assembled

Arcadia Model	AR3	AR4	AR5	AR6	AR8	AR10
lbs (kg)	82 (37.1)	165 (74.8)	252 (411.3)	356 (161.4)	882 (400)	1306 (592.3)

Section 5: Installing Arcadia Internals into the Manhole

These directions assume the manhole base and riser have not been assembled, and that the top slab has not been set.

Note: Do not insert the inlet or outlet pipes until after the Arcadia internals have been installed. If pipes must be inserted in advance, the pipes should not protrude into the structure as they can interfere with installation of the Arcadia Internals.

Materials provided by ADS

- Arcadia Internals (Qty: 1)
- ¼" (6.35 mm) Diameter 20 thread count, 3 ¼" (82.55 mm) wedge anchors (Qty: 2)
- ⅝" (7.93 mm) Diameter 1 ½" (38.1 mm) hex head lag screws and washers (Qty: 4)
- ¼" (6.35 mm) high speed drill bit for drilling into steel brackets (only for AR8 model)
- Conseal Roll(s)

Other Tools Needed

- Drill
 - ¼" (6.35 mm) Masonry Drill Bit
 - ⅜" (4.76 mm) Multi-Purpose Drill Bit
 - Hammer
 - ⅞" (11.11 mm) socket or wrench
 - Rigging
1. Before assembling the manhole base and riser(s), remove the assembled Arcadia unit from the precast segment that was used for protection during transport, if applicable. Rig the Arcadia internals for overhead lifting. Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach diagonally to opposite arms. See **figures 31 and 32**. Set the Arcadia unit on level ground.
 2. Locate the concrete riser section with Arcadia Mounting Brackets installed.
 3. Check for bracket centerline markings inside and on top edge of the manhole. If no markings are present, find and extend the centerlines of each bracket along the inside of the riser all the way to the riser top edge as shown. These centerlines will be used to align the unit during installation. See **figure 33**.
 4. Rig Arcadia internals for overhead lifting. Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach diagonally to opposite arms. See **figures 31 and 32**.

Figure 31



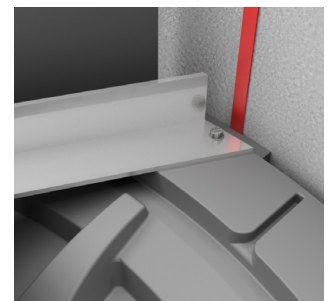
Figure 32



Figure 33



Figure 34



- a. Keep the WEIR (F) centered above the outlet pipe opening. See **figure 35**.
 - b. Keep frame arms aligned with bracket centerlines during the entire lowering process. Failure to maintain alignment could result in damage to the unit. See **figure 36**.
5. Lift Arcadia internals at slow speed. Before lowering the unit into the manhole, check for proper alignment with the mounting brackets inside the manhole. Orientation is important throughout the entire installation process.
6. Once aligned, slowly lower Arcadia internals into manhole. Utilize a spotter to guide the alignment of the unit with tagline. Proceed until the stainless-steel frame arms are resting on the pre-installed mounting brackets within the manhole.
7. Affix Arcadia internals with provided lag screws and washers through the holes in the ends of the stainless-steel frame arms, through the top plastic of the unit and into the plastic brackets beneath. First pre-drill each with a 3/16" (4.76 mm) drill bit, or for AR8 use the provided 1/4" (6.35 mm) drill bit into steel brackets below. Use 7/16" (11.11 mm) socket to drive in lag screws until snug.
8. Affix WEIR (F) edges to manhole walls using concrete anchors. See **figures 37 and 38**.
 - a. Bend WEIR (F) installation tabs to the manhole wall as shown in **figure 37**.
 - b. Mark holes for anchors, one hole per tab.
 - c. Drill a 1/4" (6.35 mm) hole 2 1/2" (63.5 mm) deep at each marked hole.
 - d. Bend WEIR (F) installation tabs to manhole wall.
 - e. Insert anchors and lightly hammer in place to secure WEIR (F) to manhole wall.
 - f. Tighten the locking nuts to firmly secure brackets to the manhole wall as shown in **figure 38**.
9. Finally, seal WEIR (F) & TOP BAFFLE (C) edges to manhole wall using conseal to fill any gaps. See **figure 35**.

Figure 35

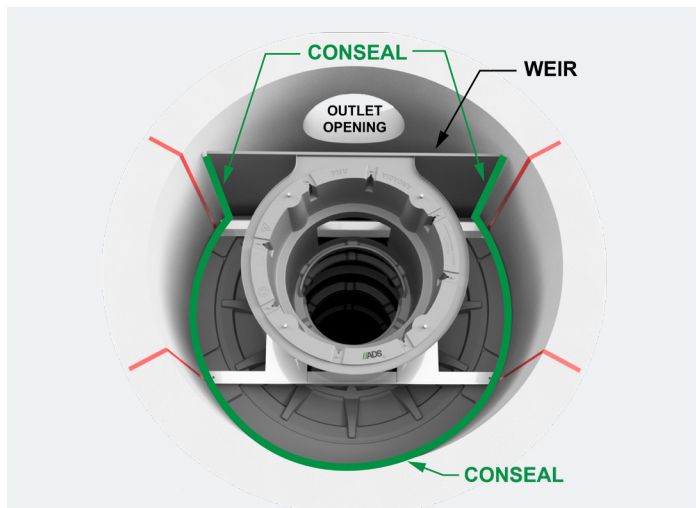


Figure 36

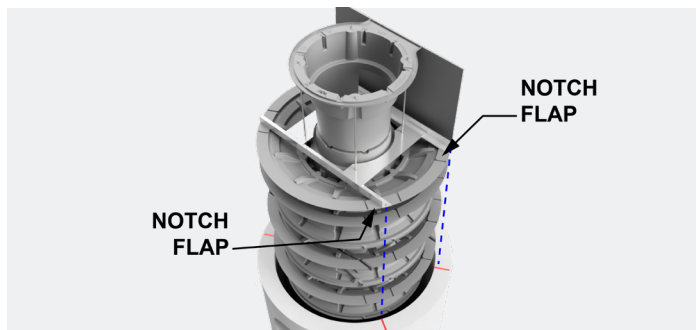
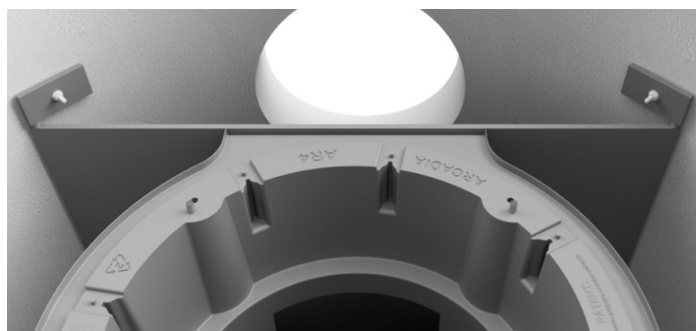


Figure 37



Figure 38



Job Name: 25-1684P13 KYTC Jefferson Co. Call 200 (251007)
Job Location: I-264 Louisville, Ky.
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, Ky.

7/21/2026 12:37:18 PM

Tech: N. Richards

PC: J. Jarvis



Structure ID: 5137+49 RT JB-A

P2 BX024024-08LD08

CB FLAT TOP 8"W SOLID

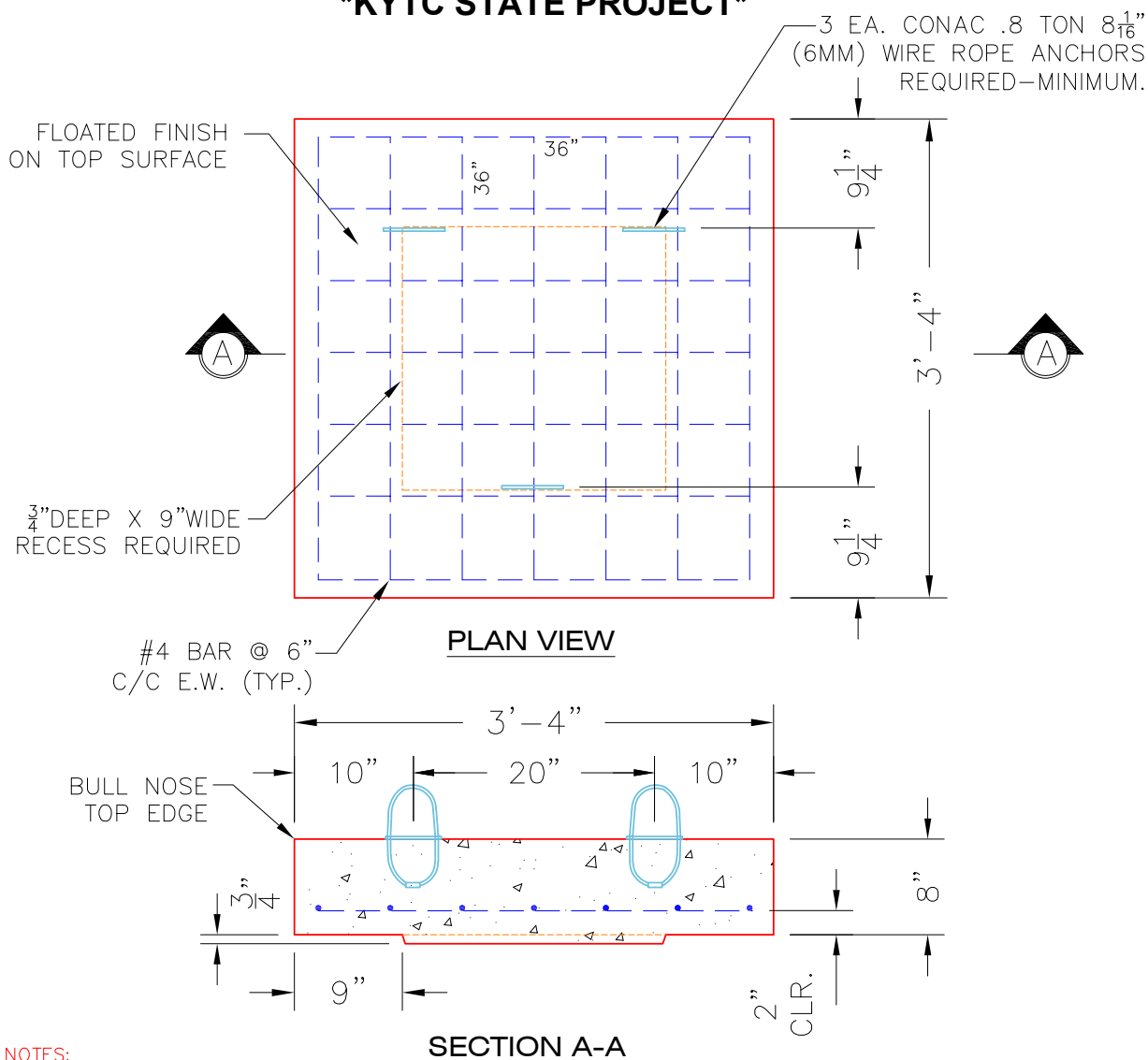
- P2) 24" x 24" - CB FLAT TOP 8"W SOLID - 8"
P1) 24" x 24" - BOX BASE 8inW, 8inF - 24"
1) 24" x 24" - Conseal CS-102 1.00"
2) Hole - 22
1) Hole - 18

1074 lb
2455 lb
0 lb
0 lb
0 lb

Structure Total: 3529 lb

Structure Notes:
-KYTC STATE PROJECT 251007
-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)
-CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST).
-KYTC CERTIFICATIONS REQUIRED.

KYTC STATE PROJECT



NOTES:

- CONCRETE: 4500 PSI @ 28 DAYS.
- MANUFACTURE TO KYTC SPECIFICATIONS.
- REINFORCING: #4 BAR @ 6" C/C E.W.-GRADE 60.
(BOTTOM LAYER ONLY)
- 3 EA. CONAC WIRE LOOP LIFTERS REQUIRED.
- KYTC CERTIFICATIONS REQUIRED.

#4 BAR CUT LIST
14 EA. @ 36"

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 1074 lb
Volume (Net): 0.27cu.yd

Job Name: 26-1364 - Ollie Car Wash
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: 100

Tech: Jared - F

7/17/2026 6:37:58 PM

PC: A. Chambers



Structure ID: 2000-GT-TANK-1

P1 BX60126-06W06F-FTVF

BOX BASE 6inW, 6inF, Variable Ht F/n

- P4) 24" - CASTING HEIGHT - 7"
P3) 24" - GRADE RING F/F - 3"
P2) 60" x 126" - CB FLAT TOP 6"W w/(2) 24" HOLES F/F - 8"
P1) 60" x 126" - BOX BASE 6inW, 6inF, Variable Ht F/n - 72"
1) CASTING - HOE MC-315 F/C Storm
2) 24" - Conseal CS-102 1.00"
1) Hole - 10
1) Hole - 5

0 lb
202 lb
6064 lb
19308 lb
258 lb
0 lb
0 lb
0 lb

Structure Total: 25833 lb

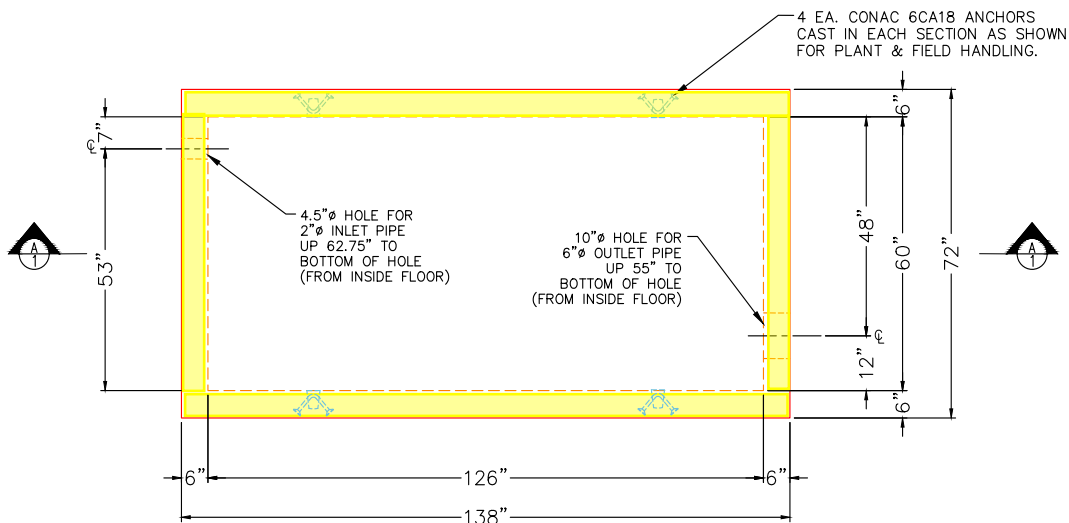
Structure Notes:

1. PER ASTM C-890-13 SPECIFICATIONS.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. THIRD POUR REQ'D - BAFFLE WALL.
4. CASTING BY ICAST (HOE MC-315 F/C "STORM")

REINFORCING PER ASTM A615 (GRADE 60) FOR H-20 DESIGN LOADING.

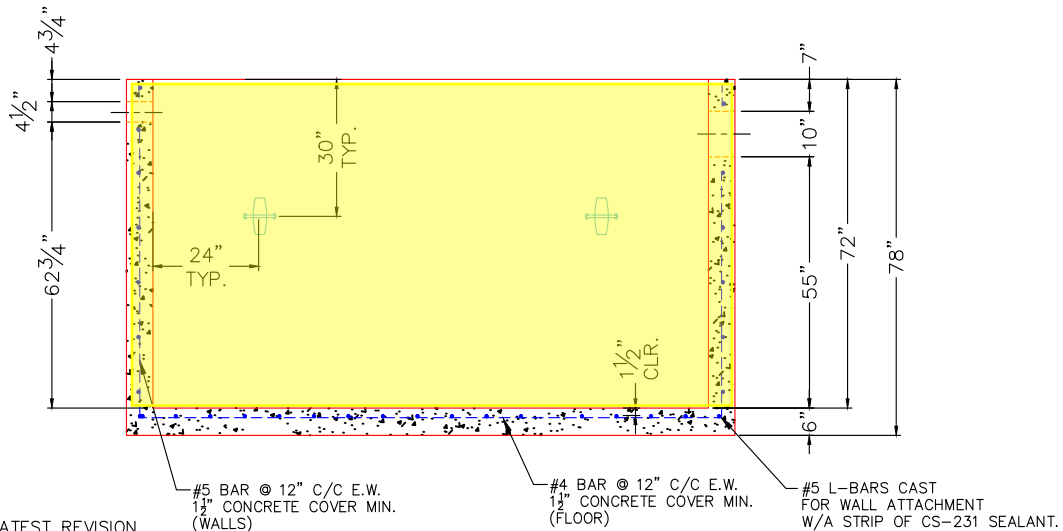
- TOP SLAB (As .47) #5 BARS AT 8" C.C.E.W.
- WALLS (As .47) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .47) #4 BARS AT 12" C.C.E.W.

Rim: 7.5' Rim to Invert: 2.75' Slack: 0" Sump: 57" Step Position:



PLAN VIEW
(RIGHTSIDE-UP)

SECOND POUR DRAWING



NOTES:

1. PER ASTM C-890-13 LATEST REVISION.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
(H-20 TRAFFIC RATED DESIGN)
4. SEALED WITH 1" CS-102 BUTYL SEALANT
5. POUR BASE, THEN POUR INTERIOR BAFFLE.
6. FIRST POUR (BASE SLAB) - 5,002 LBS
SECOND POUR (WALLS) - 14,307 LBS

SECTION A-A
(RIGHTSIDE-UP)

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 6"

Height (Int): 72"
Height (Ext): 78"

Weight (Net): 19308 lb
Volume (Net): 4.93cu.yd

Job Name: 26-1364 - Ollie Car Wash
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: 100

7/17/2026 6:37:58 PM

Tech: Jared - F
PC: A. Chambers



Structure ID: 2000-GT-TANK-1

P1 BX60126-06W06F-FTVF

BOX BASE 6inW, 6inF, Variable Ht F/n

- P4) 24" - CASTING HEIGHT - 7"
P3) 24" - GRADE RING F/F - 3"
P2) 60" x 126" - CB FLAT TOP 6"W w/(2) 24" HOLES F/F - 8"
P1) 60" x 126" - BOX BASE 6inW, 6inF, Variable Ht F/n - 72"
1) CASTING - HOE MC-315 F/C Storm
2) 24" - Conseal CS-102 1.00"
1) Hole - 10
1) Hole - 5

0 lb
202 lb
6064 lb
19308 lb
258 lb
0 lb
0 lb
0 lb

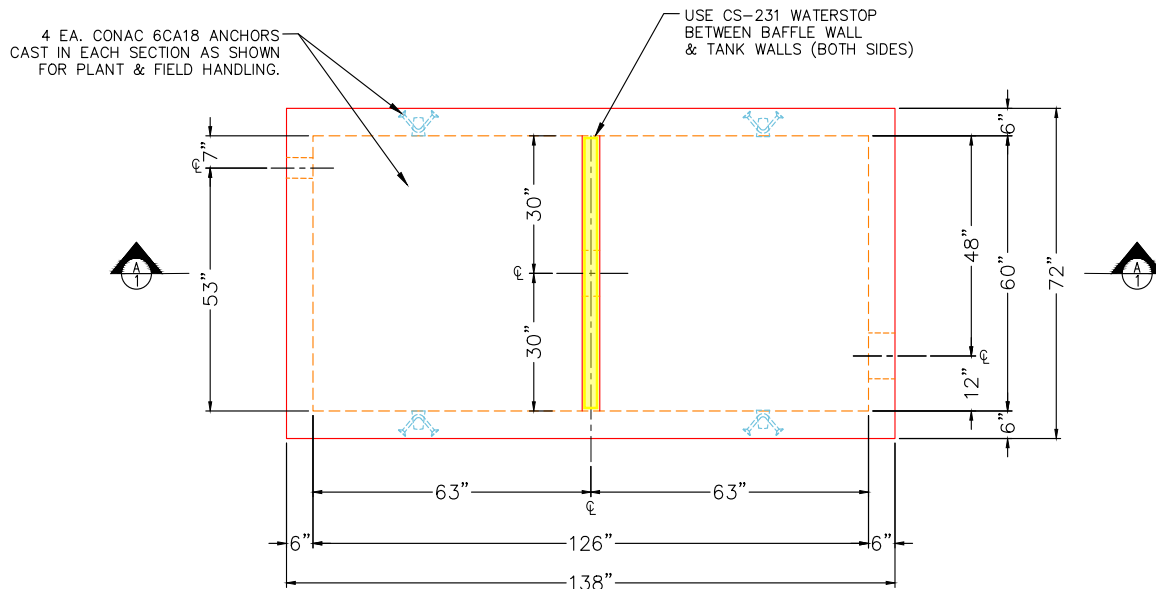
Structure Total: 25833 lb

Structure Notes:

1. PER ASTM C-890-13 SPECIFICATIONS.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. **THIRD POUR REQ'D - BAFFLE WALL.**
4. CASTING BY ICAST (HOE MC-315 F/C "STORM")

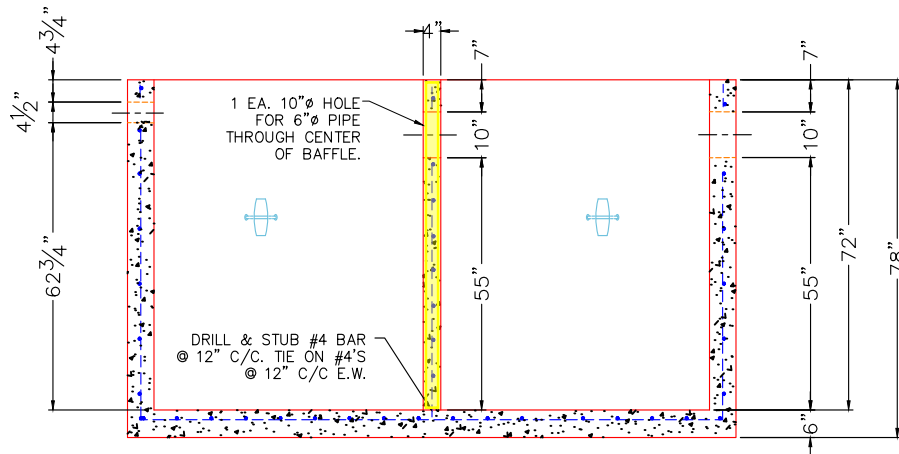
REINFORCING PER ASTM A615 (GRADE 60)
FOR H-20 DESIGN LOADING.
- TOP SLAB (As .47) #5 BARS AT 8" C.C.E.W.
- WALLS (As .47) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .47) #4 BARS AT 12" C.C.E.W.

Rim: 7.5' Rim to Invert: 2.75' Slack: 0" Sump: 57" Step Position:



PLAN VIEW

THIRD POUR DRAWING



SECTION A-A

NOTES:

1. PER ASTM C-890-13 LATEST REVISION.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60). (H-20 TRAFFIC RATED DESIGN)
4. SEALED WITH 1" CS-102 BUTYL SEALANT
5. POUR BASE, THEN POUR INTERIOR BAFFLE.
6. **THIRD POUR (BAFFLE WALL) - 1,425 LBS**

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 6"

Height (Int): 72"
Height (Ext): 78"

Weight (Net): 19308 lb
Volume (Net): 4.93cu.yd



Weight (Net): 10961 lb
Volume (Net): 2.8cu.yd



Weight (Net): 10961 lb
Volume (Net): 2.8cu.yd



Structure ID: 14

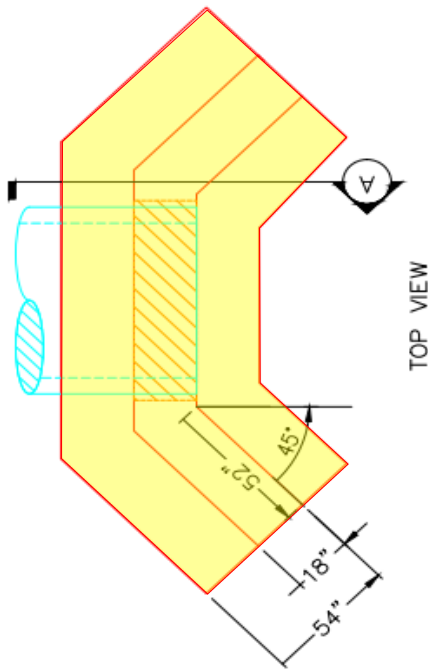
P1 HWPCCUS

48" - PIPE CULVERT HEADWALL CUSTOM F/F

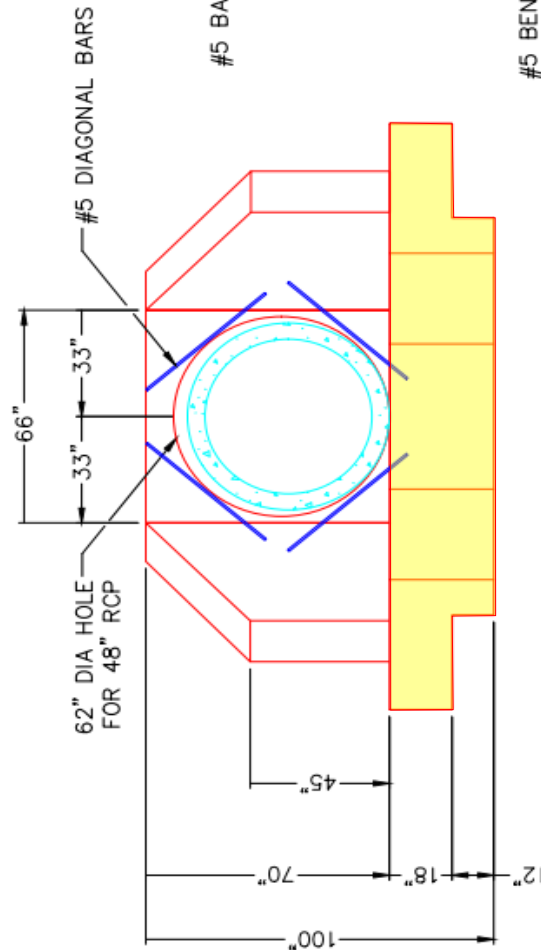
NOTES:

1. PER ODOT SPEC'S (HW 1.1).
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. REINFORCING = #5 (GRADE 60) **EPOXY COATED REBAR.**
4. WEIGHTS : **1ST POUR - BASE W/TOE24,542 LBS**
2ND POUR - WALLS13,700 LBS

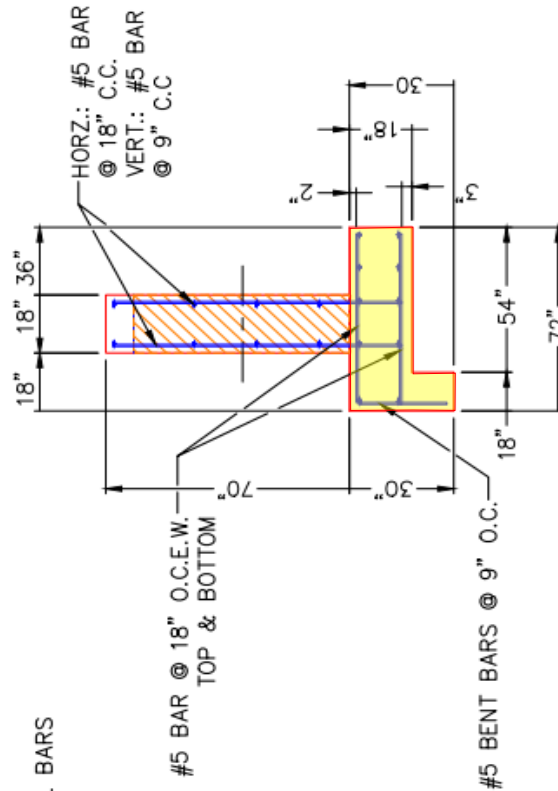
FIRST POUR DRAWING



TOP VIEW



ELEVATION VIEW



SECTION "A"

REVISION INFORMATION		SUBMITTAL DRAWING: 48" SPECIAL HW	
REV. A	DATE: 00-00-00	NO REVISIONS TO DATE	CUSTOMER: SUNESIS CONSTRUCTION
			PROJECT: LOWER MILL CREEK HWDW PROTECTION
			STRUCTURE: 14
			SALES ORDER NO: 26-1466
			PC: E. BRADLEY
			DRAWN BY: FMT
			DATE: 07/17/26
			SCALE: NTS
			PG. 1 of 1





Structure ID: 14

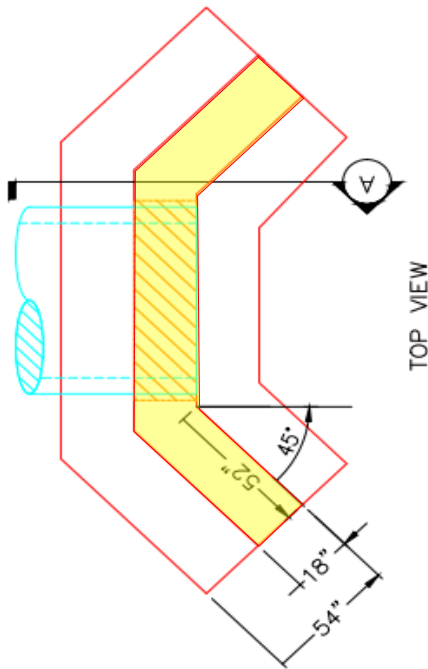
P1 HWPCCUS

48" - PIPE CULVERT HEADWALL CUSTOM F/F

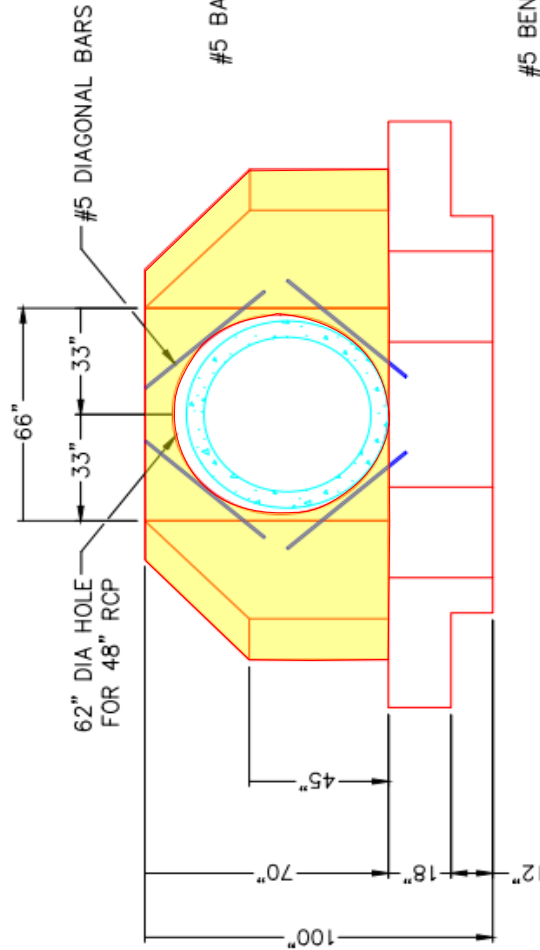
NOTES:

1. PER ODOT SPEC'S (HW 1.1).
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. REINFORCING = #5 (GRADE 60) **EPOXY COATED REBAR.**
4. WEIGHTS : 1ST POUR - BASE W/TOE 24,542 LBS
2ND POUR - WALLS 13,700 LBS

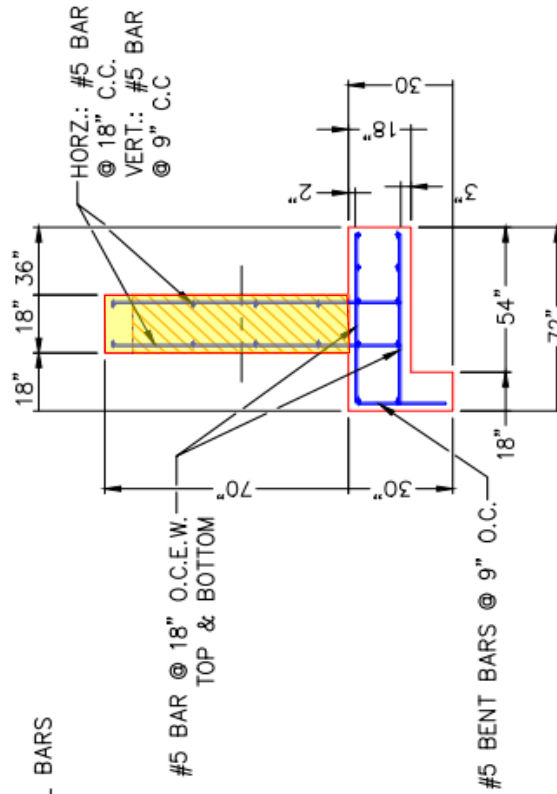
SECOND POUR DRAWING



TOP VIEW



ELEVATION VIEW

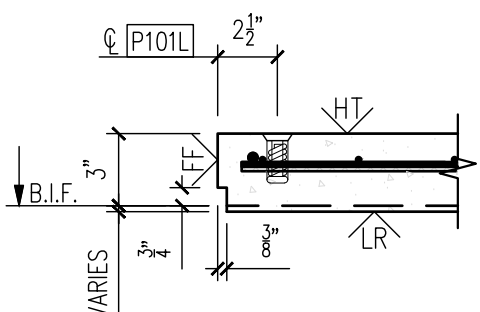
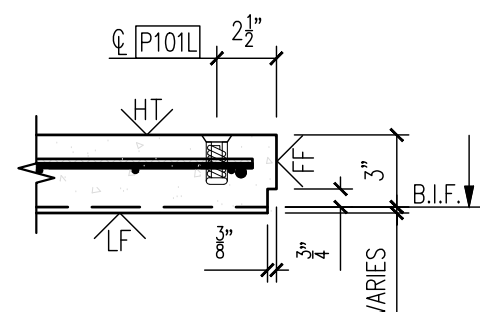
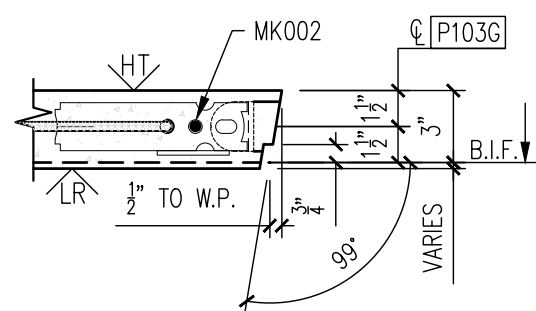
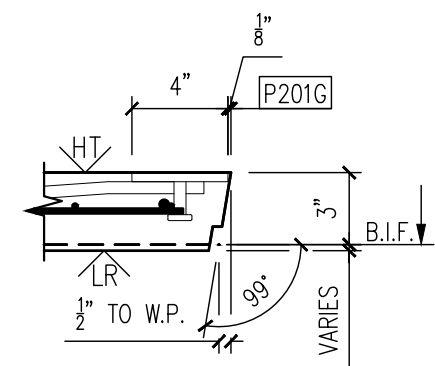
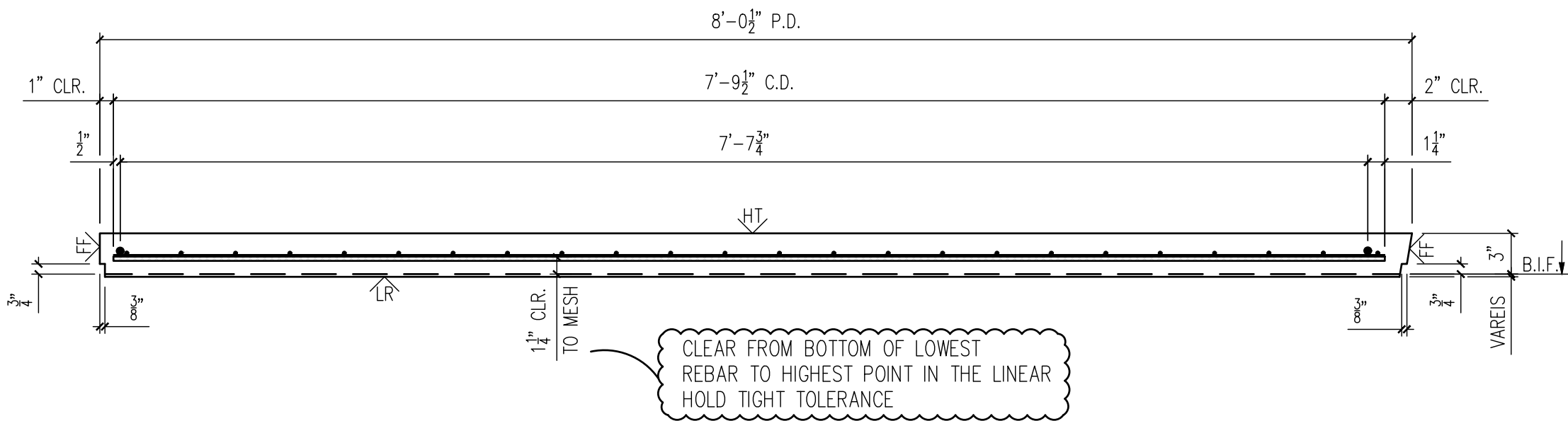
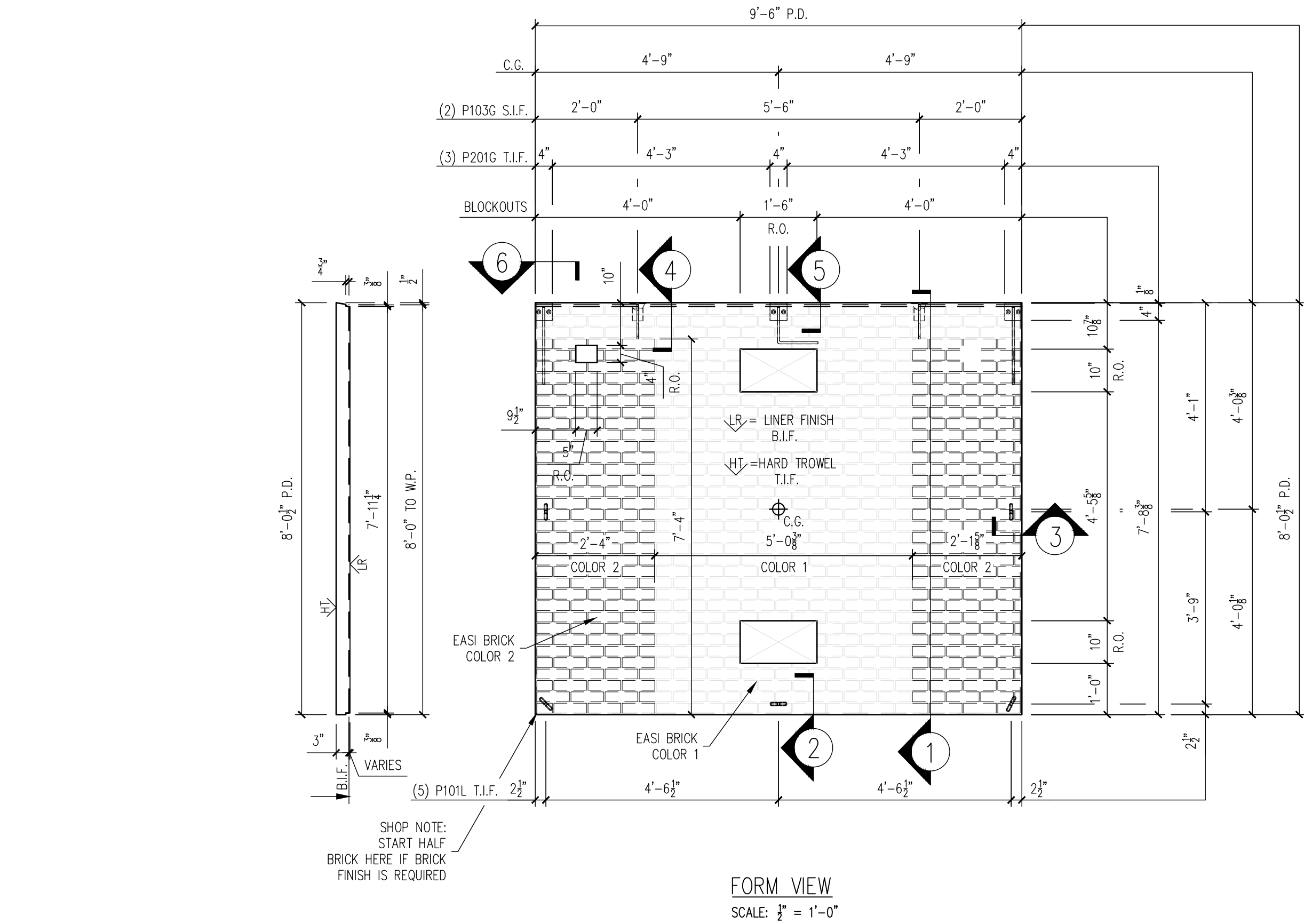


SECTION "A"

REVISION INFORMATION		SUBMITTAL DRAWING: 48" SPECIAL HW	
REV. A	DATE: 00-00-00	NO REVISIONS TO DATE	CUSTOMER: SUNESIS CONSTRUCTION
			PROJECT: LOWER MILL CREEK HWDW PROTECTION
			STRUCTURE: 14
			SALES ORDER NO: 26-1466
			PC: E. BRADLEY
			DRAWN BY: FMT
			DATE: 07/17/26
			SCALE: NTS
			PG. 1 of 1



25-3470
CCHS Precast Buildings
ID - CVW
WALL - WP-03
NORTH WALL
Weight - 2,980
1 Required



MESSAGE CENTER

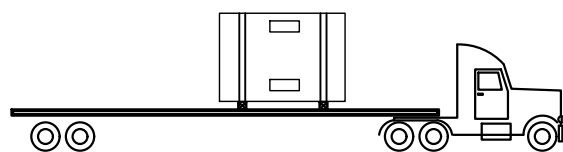
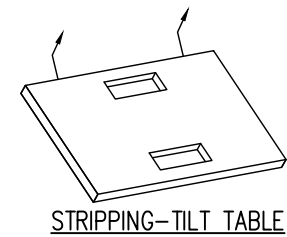
1. REFER TO DETAILS AND SECTION
FOR REINFORCEMENT PLACEMENT

2. SHOP TICKET SHOWS EXTERIOR
FINISH CAST FACE DOWN

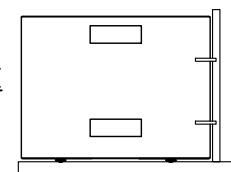
CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY
P101L	3/8" X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	5
P201G	4" X 4" X 3/8" W/(2) 3/8" X 1 1/2" H.A.S. W/ 1'-4" BENT REBAR (GALV.)	3
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	2

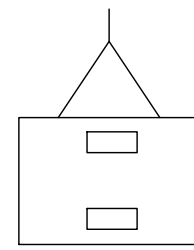
HANDLING INSTRUCTIONS



SHIPPING



YARD STORAGE



ERECTION

CONCRETE INSTRUCTIONS		
CONCRETE RELEASE @ 2,500 P.S.I.		
CONCRETE @ 28 DAYS: 5,000 P.S.I.		
CONCRETE MIXES		
CONCRETE - GRAY	VOLUME = 0.73	C.Y.
CONCRETE - MIX 1	VOLUME = -	C.Y.
CONCRETE - MIX 2	VOLUME = -	C.Y.
SOFT SOUND	VOLUME = -	C.Y.
TOTALS	VOLUME = 0.73	C.Y.
WEIGHT: 2,980 LBS.		

FINISHING INSTRUCTIONS	
LR = LINER FINISH	
FF = FORM FINISH	
HT = HARD TROWEL FINISH	
H = 8'-0 1/2"	SQ.FT.(T.I.F.) = 73.33
W = 9'-6"	SQ.FT.(T.I.F.) = -
D = 3"	SQ.FT.(T.I.F.) = -
CONTROL NUMBERS:	
-	
PRODUCT	SALES ORDER NUMBER
BUILDING	101208C
SHEET NUMBER	NUMBER REQUIRED
1 OF 2	1

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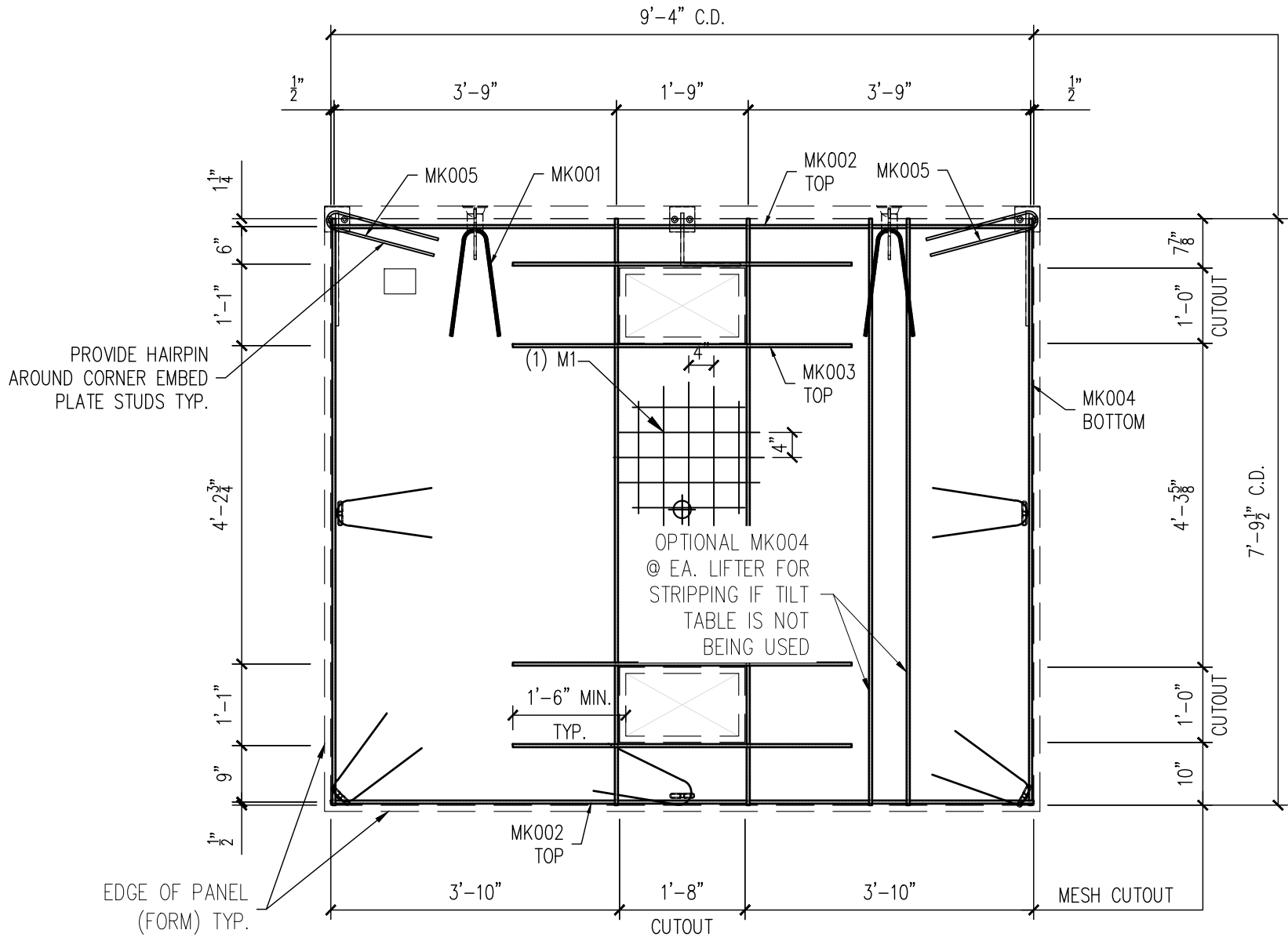
REV	INI.	DESCRIPTION
1	-	
2	-	
3	-	
4	-	
5	-	

PROJECT: 10'X12'X8' GATE HOUSE BUILDING
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

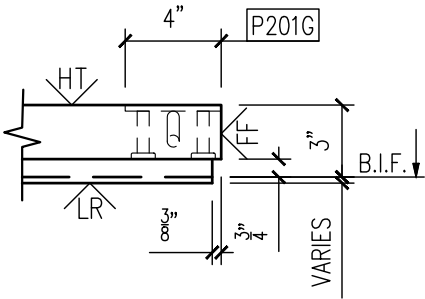
SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.02.26
PIECE MARK WP-03

25-3470
CCHS Precast Buildings
ID - CVW
WALL - WP-03
NORTH WALL
Weight - 2,980
1 Required

NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR



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



MESSAGE CENTER

1. REFER TO DETAILS AND SECTION FOR REINFORCEMENT PLACEMENT
2. SUPPLEMENTAL STEEL FOR STRIPPING AND HANDLING MAY BE ADDED AS REQUIRED.

NOTE:
1. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).

CHECKED BY: DATE:
APPROVED BY: DATE:

PRODUCT	SALES ORDER NUMBER
BUILDING	101208C
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#3 X 3'-0"	7
MK002	#3 X 9'-4"	2
MK003	#3 X 4'-6"	4
MK004	#3 X 7'-9 1/2"	4
MK005	#3 X 3'-1"	2

MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"X4" WWF 9'-4" X 7'-9 1/2"	1

REV	INI.	1	2	3	4
DATE	-	-	-	-	-
DESCRIPTION	-	-	-	-	-

PROJECT: 10'X12'X8' GATE HOUSE BUILDING
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.02.26
PIECE MARK WP-03

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