

Job Name: 26-2604 ADS Abound Credit Union

Job Location: Louisville, KY

Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

7/7/2026 8:31:26 AM

Tech: S. Felletter

PC: T. Ryan



Structure ID: AR3PC

P2 MH036RS72

MH RISER T/G

P5) 24" - CASTING HEIGHT - 7"

P4) 36" - MH FLAT TOP w/ 24" Ctr. Hole F/G - 10"

P3) 36" - MH RISER T/G - 18"

P2) 36" - MH RISER T/G - 72"

P1) 36" - MH BASE T/h - 18"

1) ASSEMBLY REQUIRED

1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212

1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

1) CASTING - HOE MC-375 F/C Storm

3) 36" - Conseal CS-102 1.00" (Double)

1) 24" - Conseal CS-102 1.00" (Double)

2) Hole - 12

0 lb

896 lb

759 lb

2937 lb

1525 lb

0 lb

0 lb

0 lb

271 lb

0 lb

0 lb

0 lb

Structure Total: 6388 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").

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: 742.78'

Rim to Invert: 5.92'

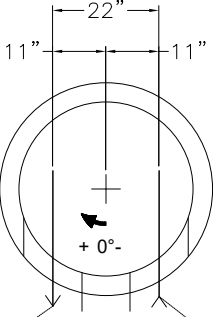
Slack: 1"

Sump: 54.96"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	736.86'	0°	11.519"	8" PVC SDR35	8.5"	Hole 12	12"	17.18"	31.46"	11"
Invert 2	736.86'	0°	-11.519"	8" PVC SDR35	8.5"	Hole 12	12"	17.18"	31.46"	-11"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

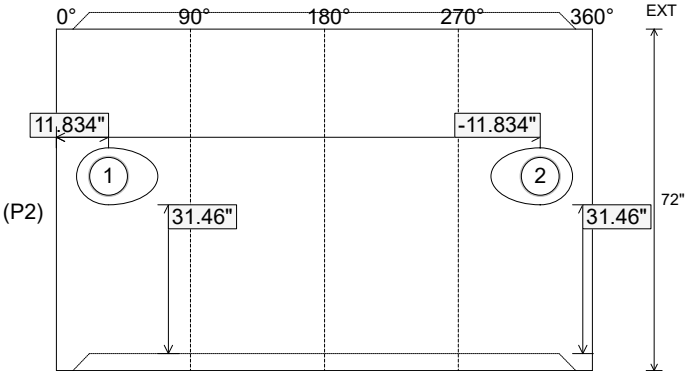
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 1
Degree: 0°
Horz: 0°
Hole: 12"
Up(): 31.46"

Invert: 2
Degree: 0°
Horz: 0°
Hole: 12"
Up(): 31.46"

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 4"

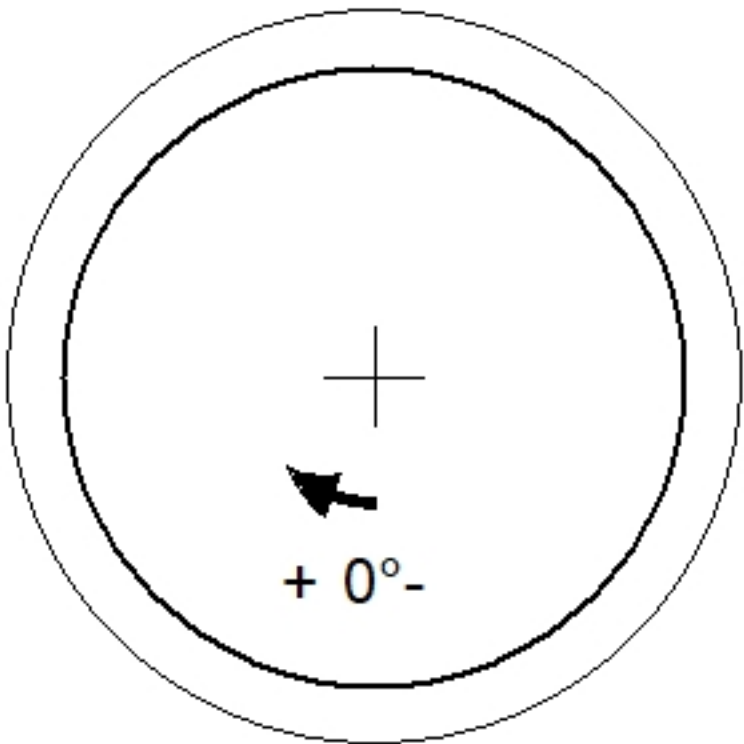
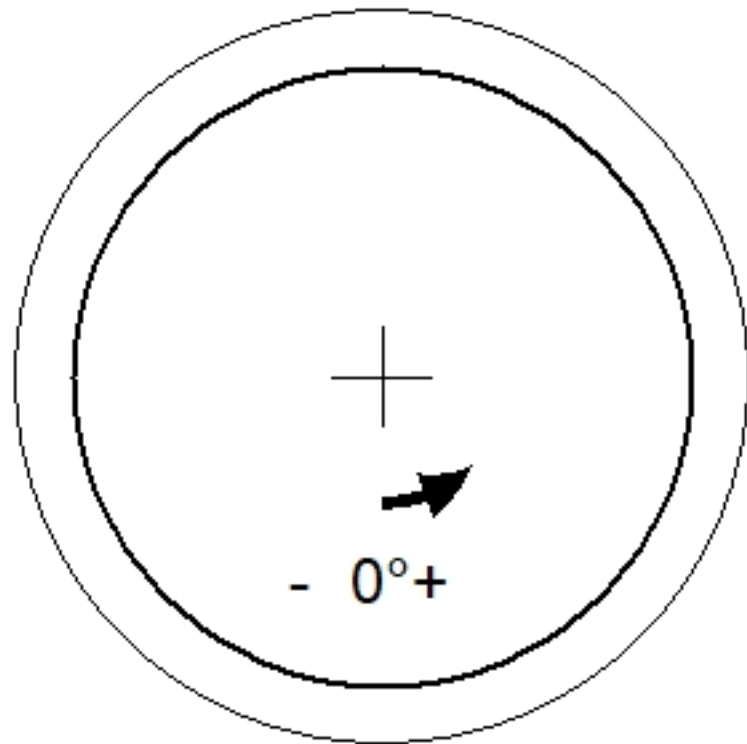
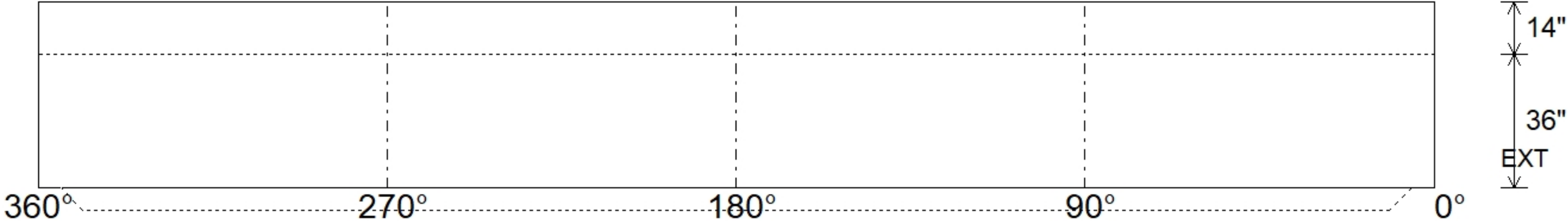
Floor Height: 0"

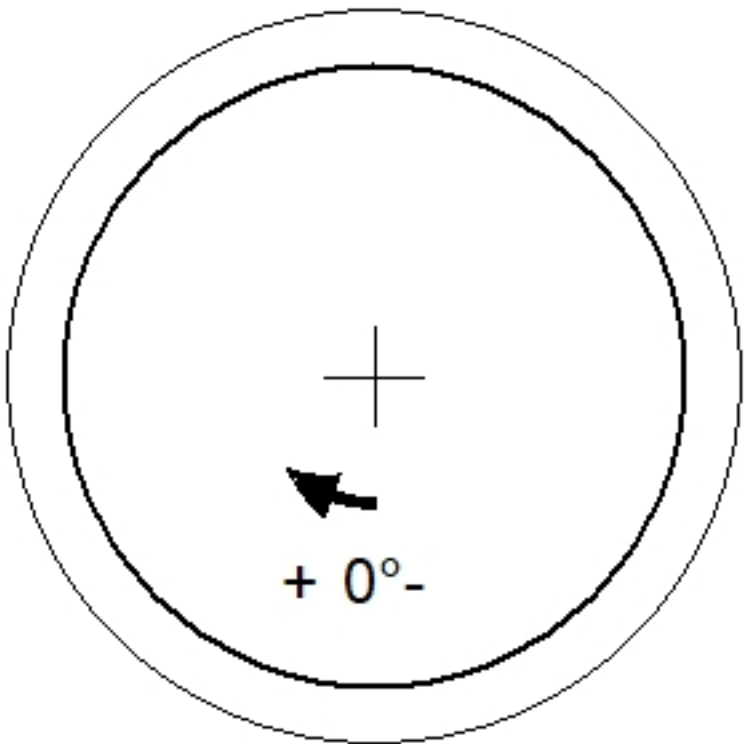
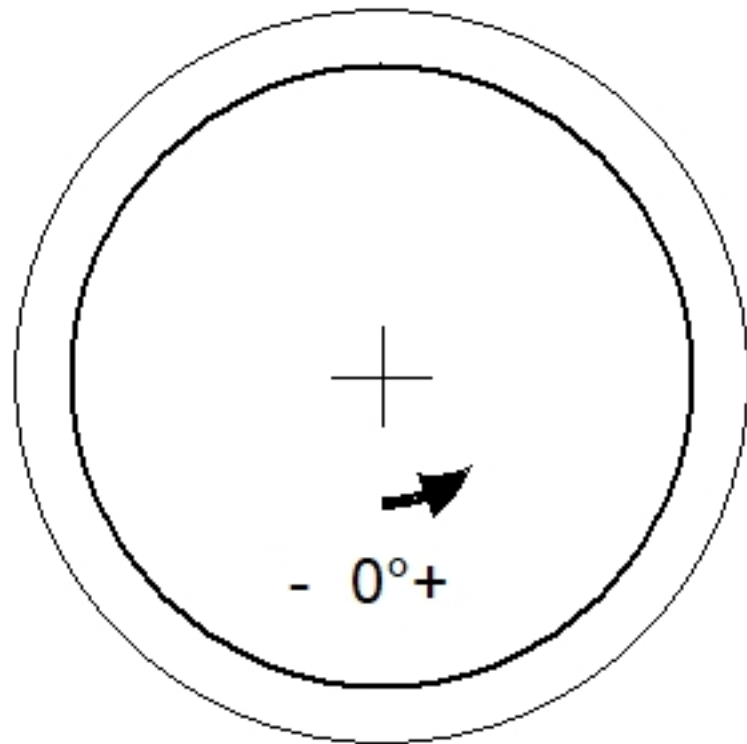
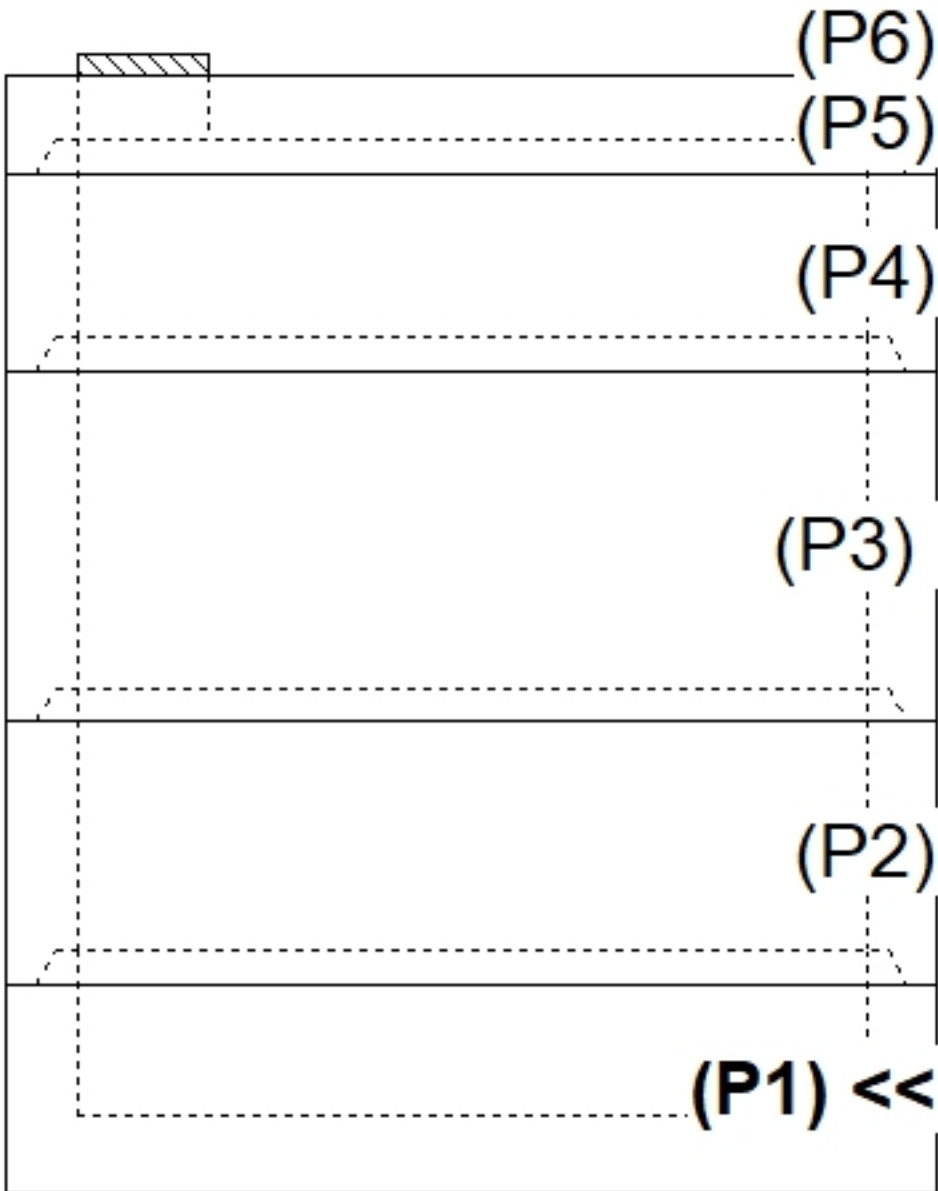
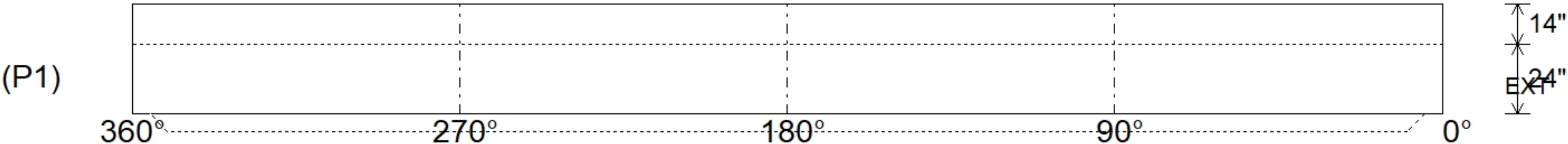
Height (Int): 72"

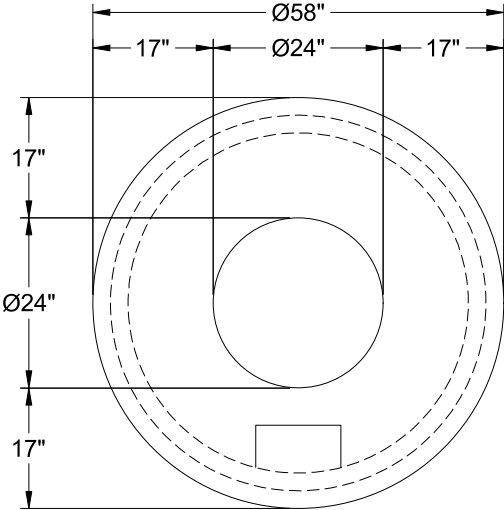
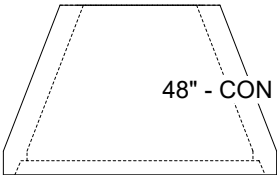
Height (Ext): 72"

Weight (Net): 2937 lb

Volume (Net): 0.75cu.yd

Job Name: 26-2692 868541 Georgetown Commons Phase 2					Plant: Beaver Dam		Tech: S. Felletter				
Job Location: Georgetown, KY					6/16/2026 3:18:12 PM		PC: C. Goff				
Contractor: Contech Engineering Solutions											
Structure ID: 15-CS-10											
P1		MH120BVF		MH MONOBASE 14F, Custom Ht T/n							
P5) 24" - CASTING HEIGHT - 4" P4) 120" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18" P3) 120" - MH RISER T/G - 84" P2) 120" - MH RISER T/G - 36" P1) 120" - MH MONOBASE 14F, Custom Ht T/n - 36" 1) CVSTENCILING 1) ASSEMBLY REQUIRED - BRACKETS ONLY 3) 120" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 32					0 lb 16223 lb 30345 lb 13675 lb 32280 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 92523 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: 872.5' Rim to Invert: 7.25' Slack: 1.076" Sump: 92.076" 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) 											
Coating (Int):			Seam Up: Tongue		Wall Thickness: 11"		Height (Int): 36"		Weight (Net): 32280 lb		
Coating (Ext):			Seam Dn: n/a		Floor Height: 14"		Height (Ext): 50"		Volume (Net): 8.24cu.yd		

Job Name: 26-2692 868541 Georgetown Commons Phase 2 Job Location: Georgetown, KY Contractor: Contech Engineering Solutions					Plant: Beaver Dam 6/16/2026 3:18:13 PM		Tech: S. Felletter PC: C. Goff						
Structure ID: 10-CS-12													
P1		MH144BVF		MH MONOBASE 14F, Custom Ht T/n									
P6) 24" - CASTING HEIGHT - 4" P5) 144" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18" P4) 144" - MH RISER T/G - 36" P3) 144" - MH RISER Custom Ht T/G - 64" P2) 144" - MH RISER T/G - 48" P1) 144" - MH MONOBASE 14F, Custom Ht T/n - 24" 1) CVSTENCILING 1) ASSEMBLY REQUIRED - BRACKETS ONLY 4) 144" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 32						0 lb 23623 lb 19370 lb 32619 lb 25826 lb 39578 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- 141015 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: 871.5' Rim to Invert: 7.76' Slack: 7.036" Sump: 107.916" 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. dimenions) 													
 INSIDE WALL DIMENSIONS 													
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 13" Floor Height: 14"		Height (Int): 24" Height (Ext): 38"		Weight (Net): 39578 lb Volume (Net): 10.11cu.yd				

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting		Plant: 100 3/27/2026 11:40:34 AM	Tech: J. Horsley - A PC: Celina Goff	
Structure ID: 2301557				
P4 MH048CCN36		CON CONE w/24" HOLE F/G		
P5) 24" - CASTING HEIGHT - 7" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 48" - MH RISER T/G - 72" P2) 60" - MH Transition Slab 48" Hole T/G - 15" P1) 60" - MH BASE (10"F) Custom Ht T/n - 70" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 15) MH Step ML-10-TDS-NCR - 10"		0 lb 2252 lb 5030 lb 2204 lb 9370 lb 2692 lb 0 lb 0 lb 2 lb 0 lb ----- 21550 lb Structure Total:	<u>Structure Notes:</u> 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. STEPS REQUIRED 5. 7" CASTING SUPPLIED BY OTHERS	
				
				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 36"	Weight (Net): 2252 lb Volume (Net): 0.57cu.yd



MH RISER w/XYPEX

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

Weight (Net): 5030 lb
Volume (Net): 1.28cu.yd

Job Name: 25-4288 - Project Wave

Job Location: Franklin, KY 42134

Contractor: Cumberland Pipeline LLC

Plant: 100

7/10/2026 8:14:16 AM

Tech: Jared - A

PC: Erica Bradley



Structure ID: A2

P3MH048RS72XMH RISER w/XYPEX

P7) 24" - CASTING HEIGHT - 7"

P6) 48" - ECC XYPEX CONE w/ 24" HOLE - 36"

P5) 48" - MH RISER w/XYPEX - 48"

P4) 48" - MH RISER w/XYPEX - 60"

P3) 48" - MH RISER w/XYPEX - 72"

P2) 48" - MH RISER w/XYPEX - 72"

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

5) 48" - Conseal CS-102 1.00" (Double)

1) 24" - Conseal CS-102 1.00" (Double)

2) PSX - 12-08 NYLO

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

0 lb

2251 lb

3353 lb

4192 lb

5030 lb

5030 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

Rim: 716.3'

Rim to Invert: 26.55'

Slack: 1.6"

Sump: 2"

Structure Total: 24473 lb

Step Position: 0

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)

(P7)

(P6)

(P5)

(P4)

(P3) <<

(P2)

(P1)

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

EXT

72"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

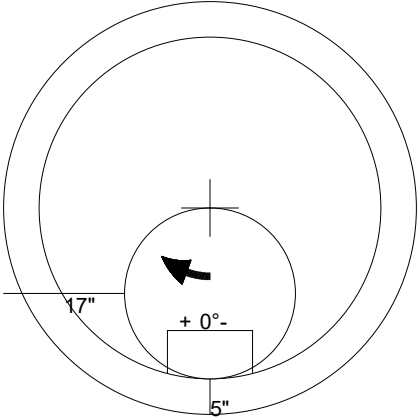
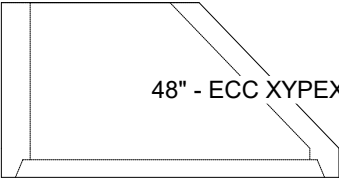
Floor Height: 0"

Height (Int): 72"

Height (Ext): 72"

Weight (Net): 5030 lb

Volume (Net): 1.28cu.yd

Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC		Plant: 100 7/10/2026 8:15:40 AM	Tech: Jared - A PC: Erica Bradley	
Structure ID: A1				
P3 MH048CN30X		ECC XYPEX CONE w/ 24" HOLE		
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 30" P2) 48" - MH RISER w/XYPEX - 36" P1) 48" - MH BASE w/XYPEX - 18" 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 1981 lb 2515 lb 2492 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- Structure Total: 8694 lb	<u>Structure Notes:</u> 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	
				
				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 30"	Weight (Net): 1981 lb Volume (Net): 0.51cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1
Job Location: Murfreesboro, TN
Contractor: Bear Construction LLC

Plant: Beaver Dam
6/9/2026 10:40:26 AM

Tech: S. Felletter
PC: Erica Bradley



Structure ID: R34

P2 MH048LD12-28SQ

MH FLAT TOP w/28"x28" Hole F/G

- P3) 28" x 28" - CASTING HEIGHT - 5"
P2) 48" - MH FLAT TOP w/28"x28" Hole F/G - 12"
P1) 48" - MH BASE T/n - 42"
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
1) CASTING - JBS 3104-V SINGLE SET
1) 48" - Conseal CS-102 1.00"
1) 28" x 28" - Conseal CS-102 1.00"
1) Hole - 26
3) MH Step ML-10-TDS-NCR - 10"

Structure Total:

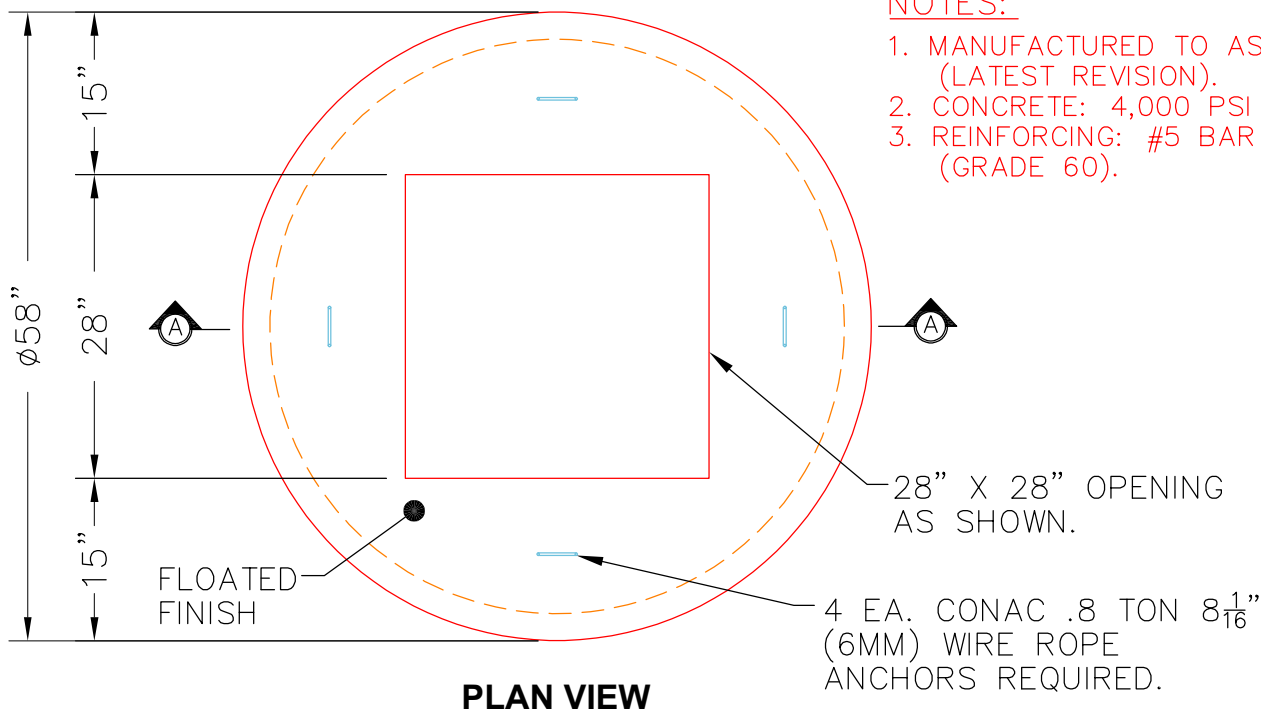
0 lb
1368 lb
4031 lb
1075 lb
250 lb
0 lb
0 lb
0 lb
0 lb

6724 lb

Structure Notes:

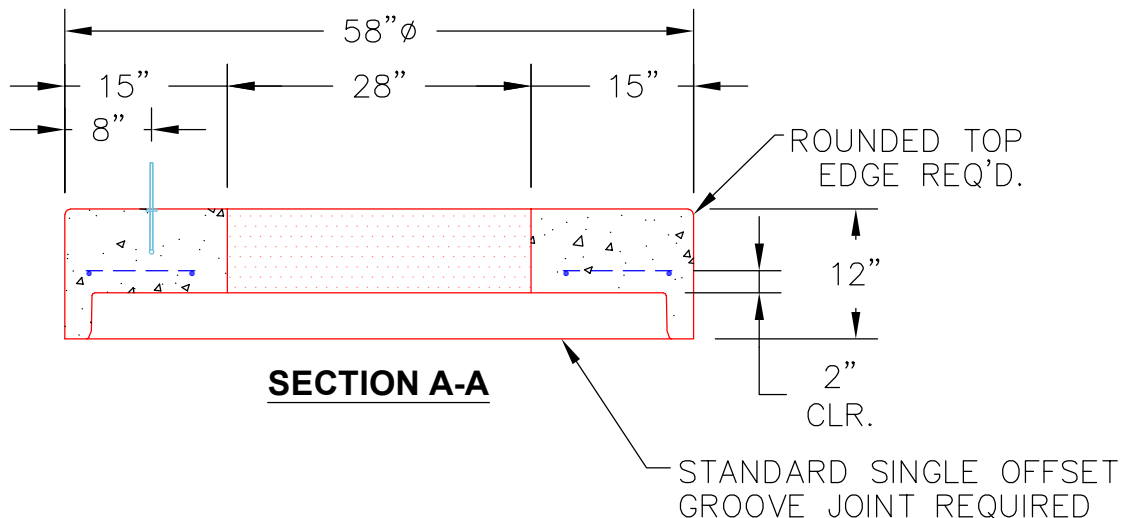
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS-3104 SINGLE SET).

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.



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).



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1368 lb
Volume (Net): 0.35cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1
Job Location: Murfreesboro, TN
Contractor: Bear Construction LLC

Plant: Beaver Dam
6/9/2026 10:40:25 AM

Tech: S. Felletter
PC: Erica Bradley



Structure ID: R29A

P2 MH048LD12-28SQ

MH FLAT TOP w/28"x28" Hole F/G

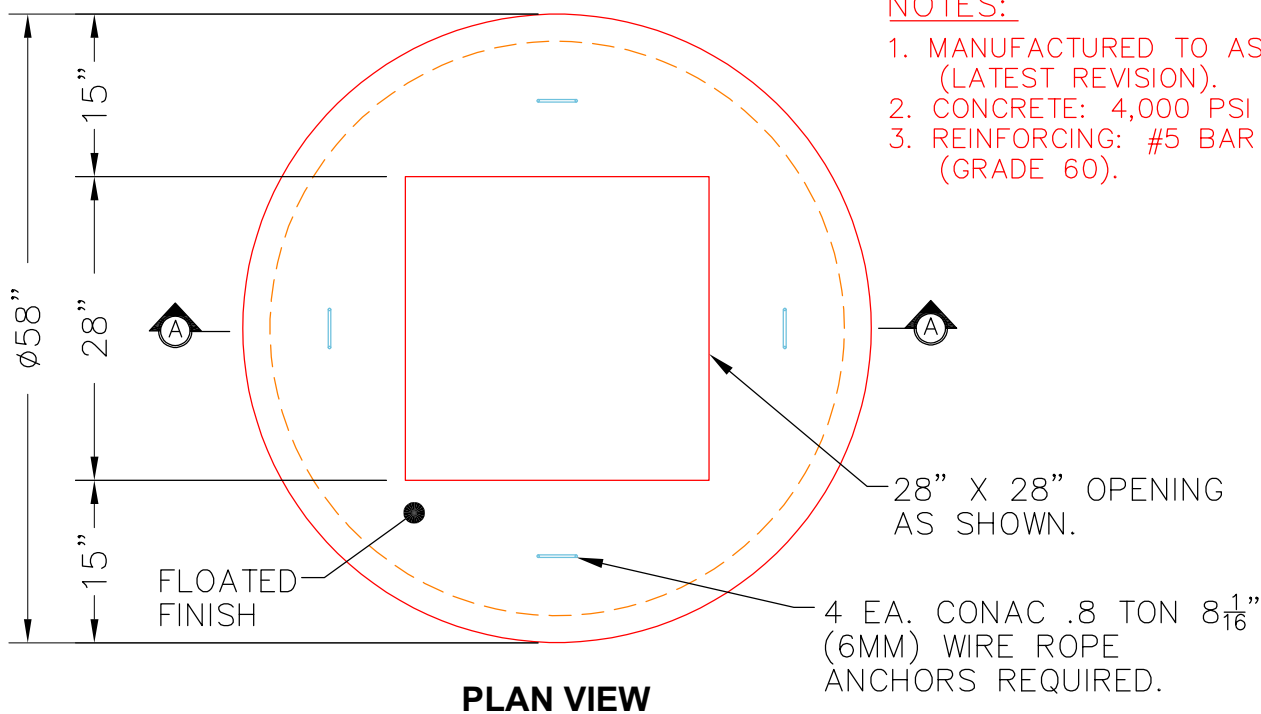
- P4) 28" x 28" - CASTING HEIGHT - 5"
P3) 28" x 28" - GRADE RING F/F - 3"
P2) 48" - MH FLAT TOP w/28"x28" Hole F/G - 12"
P1) 48" - MH BASE T/n - 42"
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
1) CASTING - JBS 3104-V SINGLE SET
1) 48" - Conseal CS-102 1.00"
2) 28" x 28" - Conseal CS-102 1.00"
2) Hole - 26
3) MH Step ML-10-TDS-NCR - 10"

0 lb
290 lb
1368 lb
3798 lb
1075 lb
250 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 6781 lb

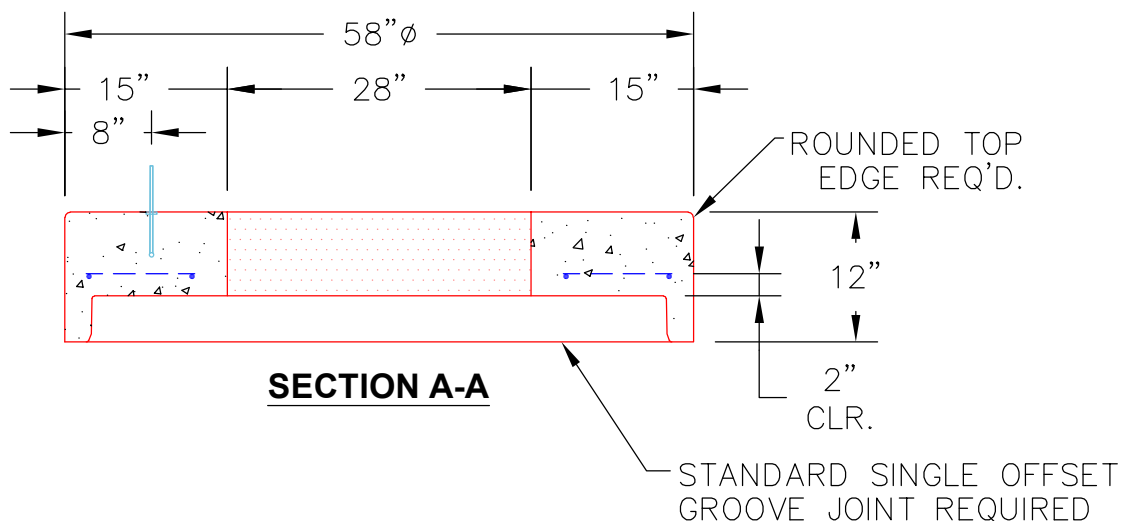
Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS-3104 SINGLE SET).

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.



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).



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1368 lb
Volume (Net): 0.35cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1
Job Location: Murfreesboro, TN
Contractor: Bear Construction LLC

Plant: Beaver Dam
6/9/2026 10:40:21 AM

Tech: S. Felletter
PC: Erica Bradley



Structure ID: R15

P3 MH048LD12-28SQ

MH FLAT TOP w/28"x28" Hole F/G

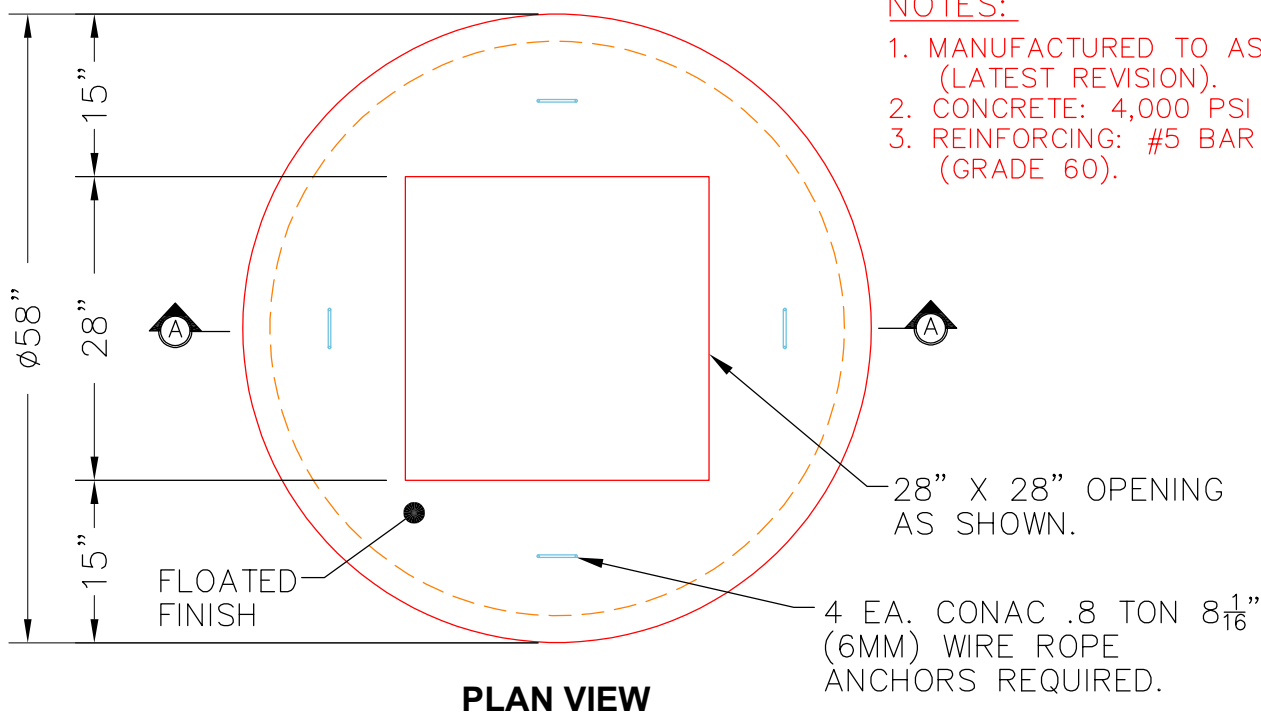
- P4) 28" x 28" - CASTING HEIGHT - 5"
P3) 48" - MH FLAT TOP w/28"x28" Hole F/G - 12"
P2) 48" - MH RISER SPECIAL T/G - 48"
P1) 48" - MH BASE T/n - 30"
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
1) CASTING - JBS 3104-V SINGLE SET
2) 48" - Conseal CS-102 1.00"
1) 28" x 28" - Conseal CS-102 1.00"
3) Hole - 26
6) MH Step ML-10-TDS-NCR - 10"

0 lb
1368 lb
3120 lb
2960 lb
1075 lb
250 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 8773 lb

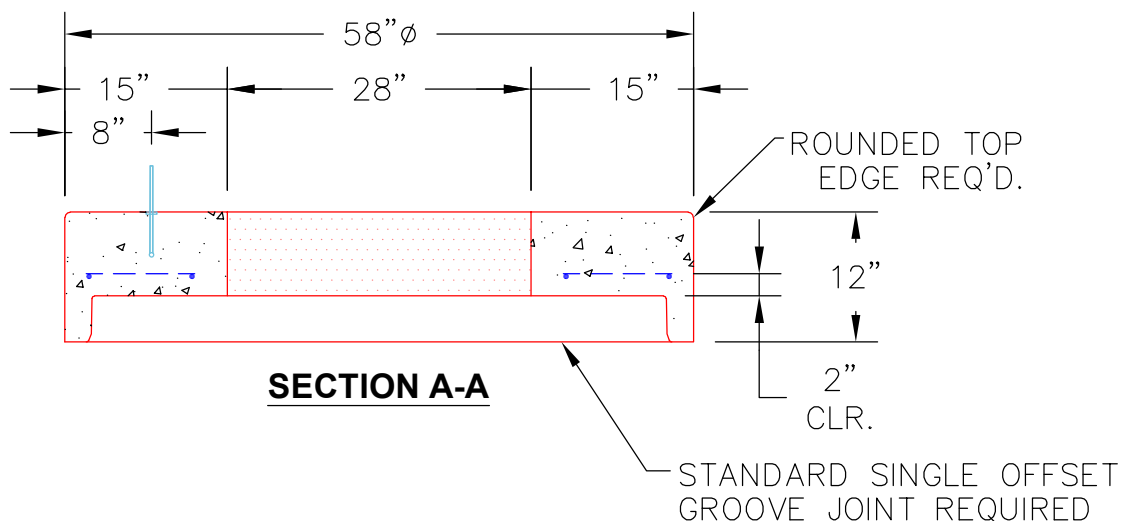
Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS-3104 SINGLE SET).

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.



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).



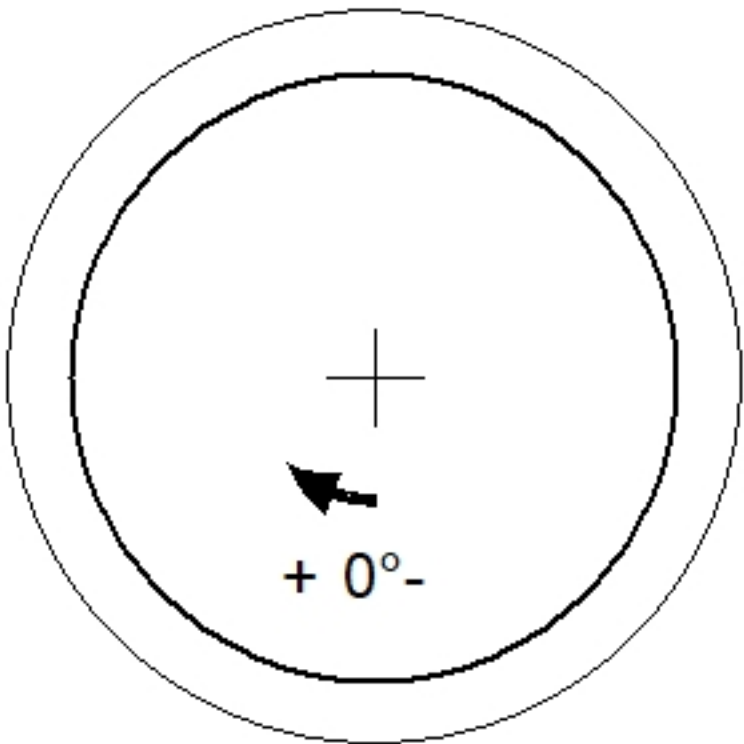
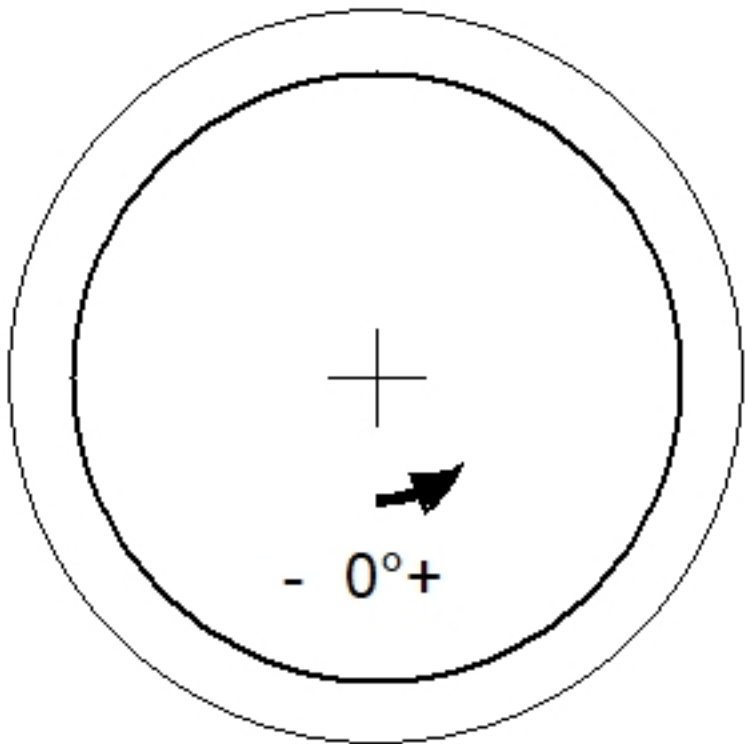
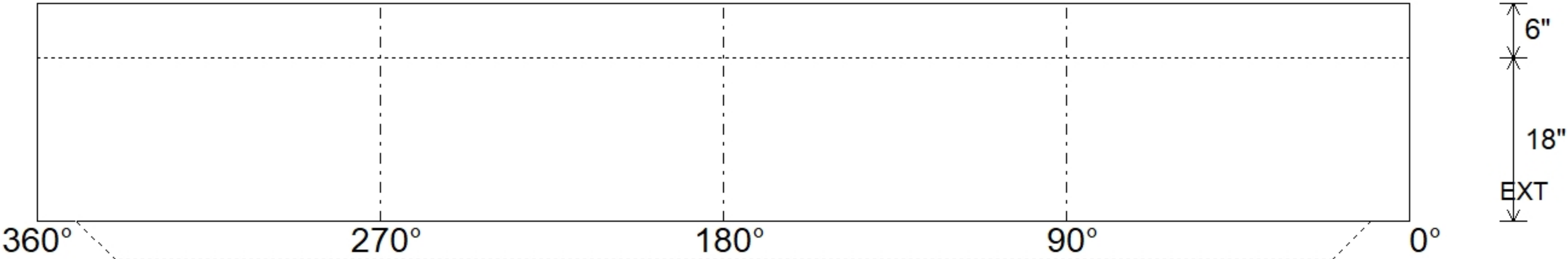
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1368 lb
Volume (Net): 0.35cu.yd

Job Name: 26-2877 839248 Aloft Job Location: Paducah, KY Contractor: Contech Engineering Solutions						Plant: Beaver Dam 7/1/2026 10:01:58 AM		Tech: S. Felletter PC: C. Goff			
Structure ID: 20-CS-4											
P1		MH048BA18				MH BASE T/n					
P4) 30" - CASTING HEIGHT - 4" P3) 48" - MH FLAT LID w/30in ECC Hole F/G - 12" P2) 48" - MH RISER SPECIAL T/G - 72" P1) 48" - MH BASE T/n - 18" 1) ASSEMBLY REQUIRED 1) CVSTENCILING 2) 48" - Conseal CS-102 1.00" 2) Hole - 24						0 lb 1413 lb 4635 lb 2588 lb 0 lb 0 lb 0 lb 0 lb ----- 0 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			
Rim: 336' Rim to Invert: 4.85' Slack: 3.2" Sump: 51" 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											
(P4) (P3) (P2) (P1) << RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimensions)  INSIDE WALL DIMENSIONS (P1) 											
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 5" Floor Height: 6"		Height (Int): 18" Height (Ext): 24"		Weight (Net): 2588 lb Volume (Net): 0.66cu.yd		

Job Name: 25-4212 - Greentree Lane Sewer
Job Location: Mt. Washington, KY
Contractor: Citgo Waterworks

Plant: 100

6/30/2026 12:49:59 PM

Tech: J. Horsley - F

PC: C. Goff



Structure ID: B1 REV.B

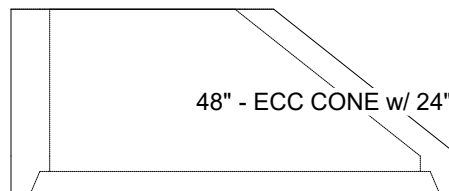
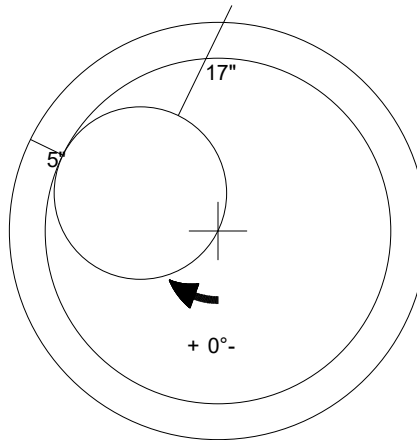
P4 MH048CN24-S

ECC CONE w/ 24" HOLE NO STEP

P5) 24" - CASTING HEIGHT - 4.75"
P4) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"
P3) 60" - MH Transition Slab 48" Hole - 13"
P2) 60" - MH RISER Custom Ht - 50"
P1) 60" - P.I.P. BY OTHERS - BTM SLAB - 0"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) SPECIAL EXTERNAL COATING - CARBOLINE 300M
2) 60" - DBL 1"x14.5' Butyl (2x)
1) 48" - DBL 1"x14.5' Butyl (2x)
1) PSX - 16M NYLO
2) DOGHOUSE - 16"x22"
154.16 SqFt) Carboline Bitumastic 300M [EXT]

0 lb
1550 lb
1928 lb
4737 lb
0 lb
0 lb
0 lb
0 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. NO STEPS.
4. CASTING SUPPLIED BY OTHERS.
5. CARBOLINE 300M >>EXTERIOR COATING ONLY<<
6. INVERTS 2 & 3 OFFSET 11" FROM CENTER
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- TRANSITION SLAB (As .31) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .18)

Structure Total: 8223 lb



Coating (Int):
Coating (Ext): Carboline Bitumastic 300M

Seam Up: Flat
Seam Dn: Groove

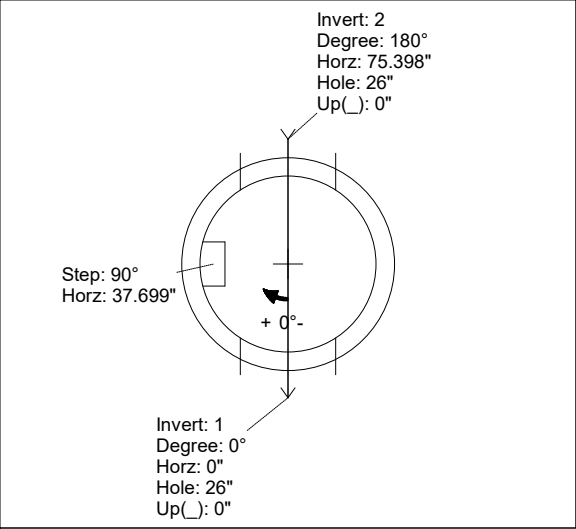
Wall Thickness: 5"

Height (Ext): 24"

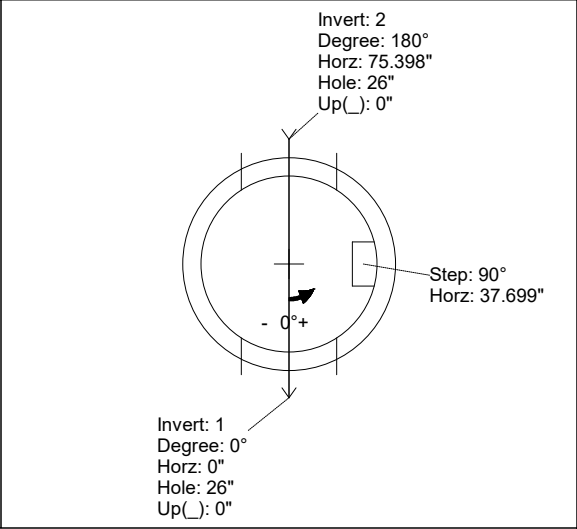
Weight (Net): 1550 lb
Volume (Net): 0.33cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1 Job Location: Murfreesboro, TN Contractor: Bear Construction LLC					Plant: Beaver Dam 6/9/2026 10:37:16 AM		Tech: S. Felletter PC: Erica Bradley				
Structure ID: R29A											
P1		MH048BA42		MH BASE T/n							
P4) 28" x 28" - CASTING HEIGHT - 5" P3) 28" x 28" - GRADE RING F/F - 3" P2) 48" - MH FLAT TOP w/28"x28" Hole F/G - 12" P1) 48" - MH BASE T/n - 42" 1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT 1) CASTING - JBS 3104-V SINGLE SET 1) 48" - Conseal CS-102 1.00" 2) 28" x 28" - Conseal CS-102 1.00" 2) Hole - 26 3) MH Step ML-10-TDS-NCR - 10"					0 lb 290 lb 1368 lb 3798 lb 1075 lb 250 lb 0 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 (JBS-3104 SINGLE SET). 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:					6781 lb						
Rim: 577.92' Rim to Invert: 5.12' Slack: 1.94" Sump: 2.5" Step Position: 90°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	572.8'	0°	0"	18" RCP B WALL	23"	Hole 26	26"	27.476"	0"	0"	
Invert 2	572.8'	180°	91.106"	18" RCP B WALL	23"	Hole 26	26"	27.476"	0"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

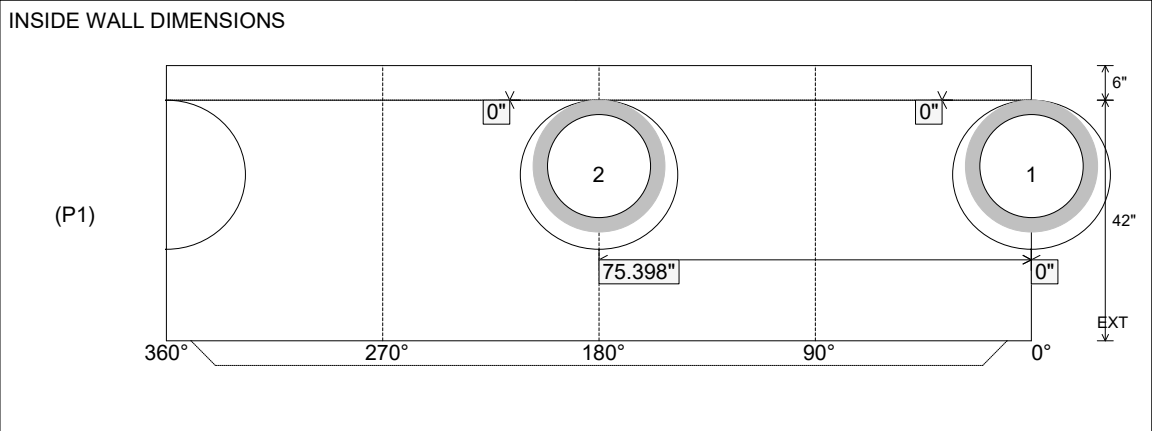
RIGHT-SIDE UP VIEW (int. dimensions)



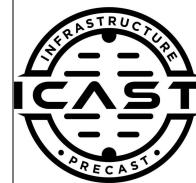
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

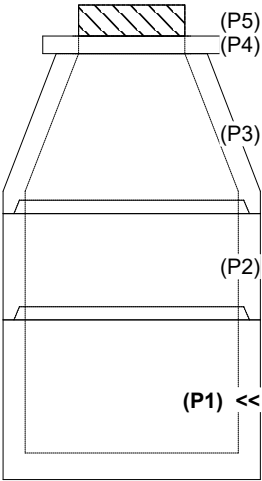


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 42" Height (Ext): 48"	Weight (Net): 3798 lb Volume (Net): 0.97cu.yd
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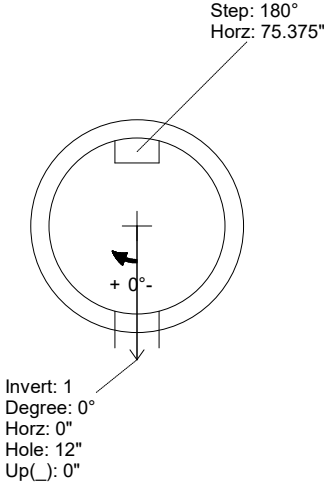
Weight (Net): 3798 lb
Volume (Net): 0.97cu.yd

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply					Plant: 100 6/15/2026 11:39:51 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: PMH4 SS-MH											
P1 MH048BA30CDARED MH BASE w/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 - 36" 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 - 0.065"x6"x50' CONSEAL CS212 1) ADMIXTURE CONBLOCK CDA RED 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 NYLO 7) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2251 lb 1677 lb 3378 lb 0 lb 0 lb 0 lb 1440 lb 0 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 SUPPLIED BY OTHERS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 428.6' Rim to Invert: 8.3' Slack: 0.6" Sump: 2" Step Position: 180					Structure Total: 9024 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	420.3'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

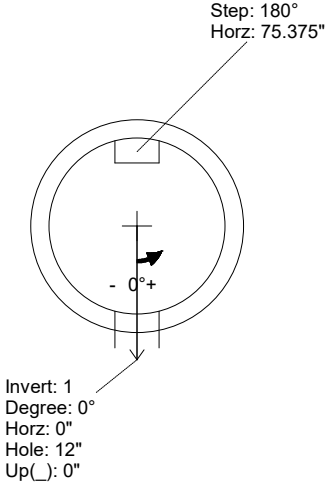
RIGHT-SIDE UP VIEW (int. dimensions)



Step: 180°
Horz: 75.375"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 12"
Up(): 0"

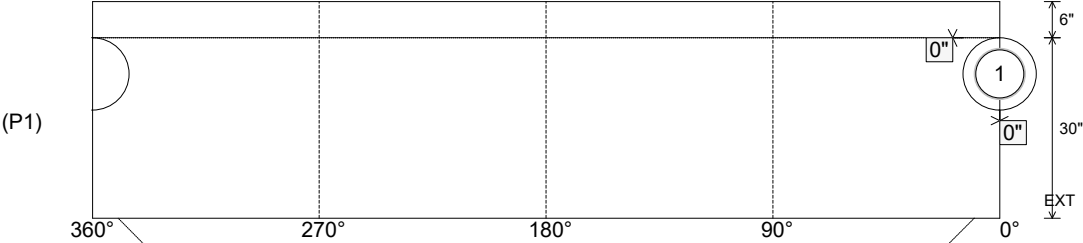
UPSIDE-DOWN VIEW (int. dimensions)



Step: 180°
Horz: 75.375"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 12"
Up(): 0"

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

6" 30" EXT

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
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Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply					Plant: 100		Tech: Jared - F			
					6/15/2026 11:39:51 AM		PC: E. Bradley			
Structure ID: PMH4 SS-MH										
P1 MH048BA30CDARED			MH BASE w/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 - 36" 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 - 0.065"x6"x50' CONSEAL CS212 1) ADMIXTURE CONBLOCK CDA RED 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 NYLO 7) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2251 lb 1677 lb 3378 lb 0 lb 0 lb 0 lb 1440 lb 0 lb 0 lb 0 lb 8 lb 0 lb ----- Structure Total: 9024 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING SUPPLIED BY OTHERS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 428.6' Rim to Invert: 8.3' Slack: 0.6" Sump: 2" Step Position: 180										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	420.3'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	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
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Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1

Job Location: Nashville, TN 37208

Contractor: Hayes Pipe Supply

Plant: 100

6/15/2026 10:59:01 AM

Tech: Jared - F

PC: E. Bradley



Structure ID: PMH2 SS-MH

P1 MH048BA36CDARED

MH BASE w/ConBlock-CDA Red T/n

P3) 24" - CASTING HEIGHT - 7"

P2) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"

1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212

1) ADMIXTURE CONBLOCK CDA RED

1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT

1) 48" - Conseal CS-102 1.00" (Double)

1) 24" - Conseal CS-102 1.00" (Double)

3) PSX - 12-08 NYLO

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

0 lb

2251 lb

3701 lb

0 lb

0 lb

0 lb

1440 lb

0 lb

0 lb

24 lb

0 lb

Structure Total: 7417 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

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

Rim: 424.84'

Rim to Invert: 6.42'

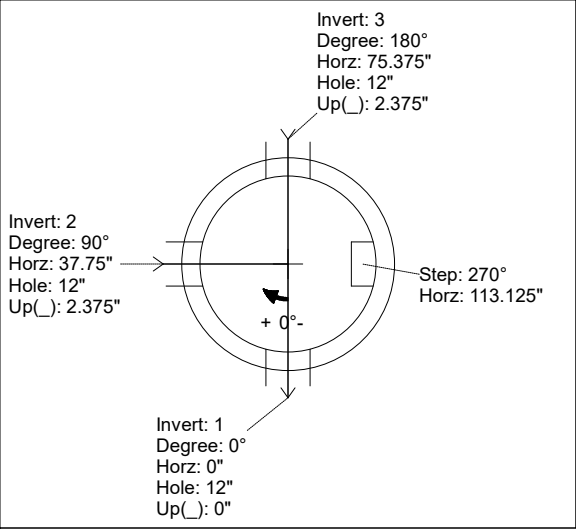
Slack: 0.04"

Sump: 2"

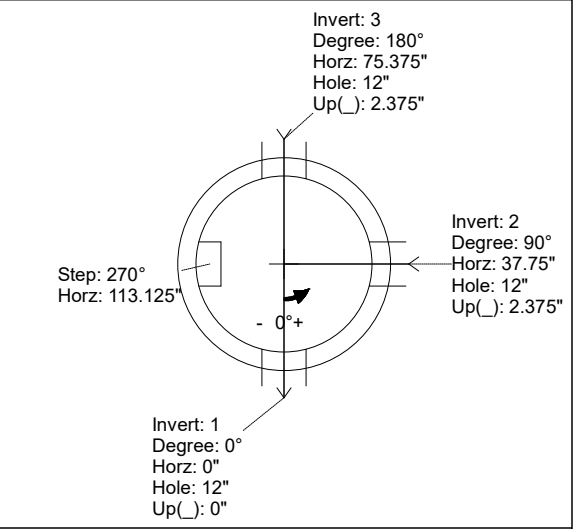
Step Position: 270

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	418.42'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	418.62'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 3	418.62'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

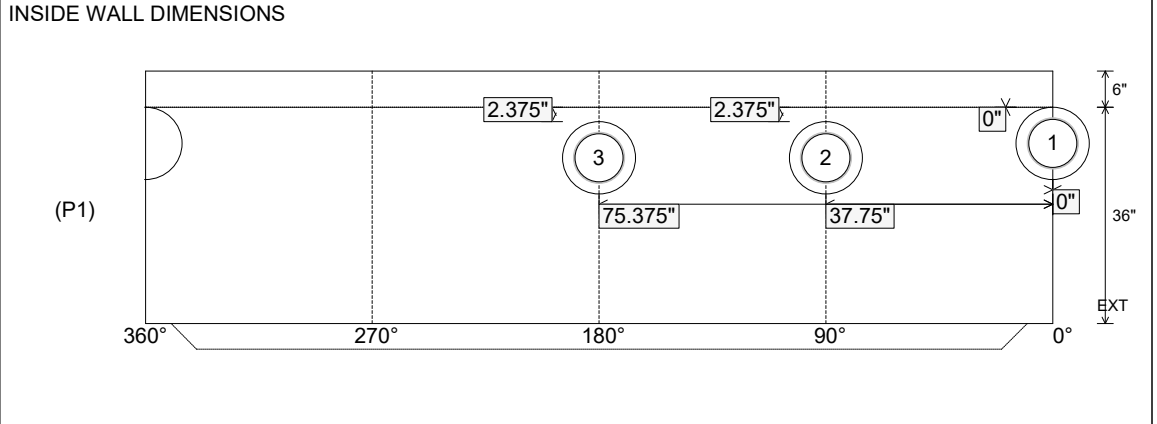
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

Height (Int): 36"

Height (Ext): 42"

Weight (Net): 3701 lb

Volume (Net): 0.94cu.yd

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply					Plant: 100		Tech: Jared - F			
					6/15/2026 10:59:01 AM		PC: E. Bradley			
Structure ID: PMH2 SS-MH										
P1 MH048BA36CDARED					MH BASE w/ConBlock-CDA Red T/n					
P3) 24" - CASTING HEIGHT - 7" P2) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) ADMIXTURE CONBLOCK CDA RED 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 3) PSX - 12-08 NYLO 6) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 3701 lb 0 lb 0 lb 0 lb 1440 lb 0 lb 0 lb 24 lb 0 lb ----- Structure Total: 7417 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING SUPPLIED BY OTHERS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 424.84' Rim to Invert: 6.42' Slack: 0.04" Sump: 2" Step Position: 270										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	418.42'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	418.62'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 3	418.62'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	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

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 36" Height (Ext): 42"	Weight (Net): 3701 lb Volume (Net): 0.94cu.yd
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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: PMH1 SS-MH

P1 MH048BA36CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 7"

P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"

P2) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"

1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212

1) ADMIXTURE CONBLOCK CDA RED

1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT

1) 48" - Conseal CS-102 1.00" (Double)

2) 24" - Conseal CS-102 1.00" (Double)

3) PSX - 12-08 NYLO

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

0 lb

202 lb

2251 lb

3701 lb

0 lb

0 lb

0 lb

1440 lb

0 lb

0 lb

24 lb

0 lb

Structure Total: 7619 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

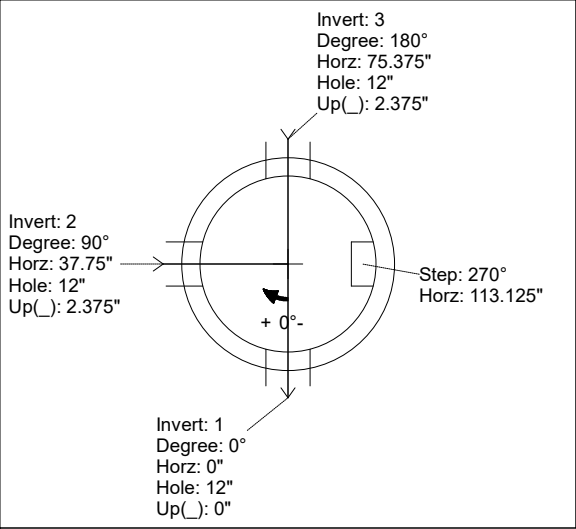
- RISER/WALLS (As .12)

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

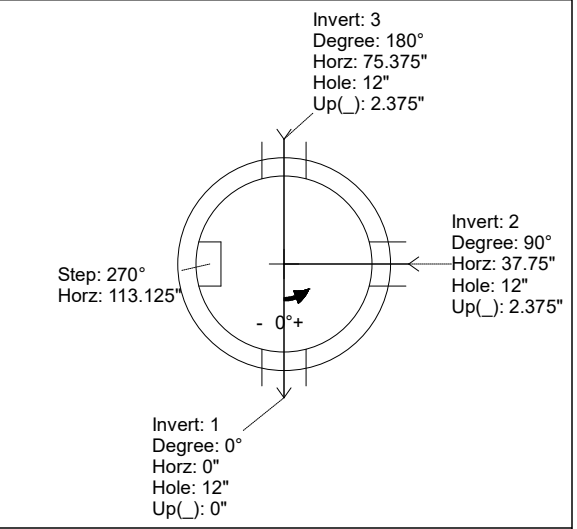
Rim: 422.67' Rim to Invert: 6.67' Slack: 0.04" Sump: 2" Step Position: 270

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	416'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	416.2'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 3	416.2'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

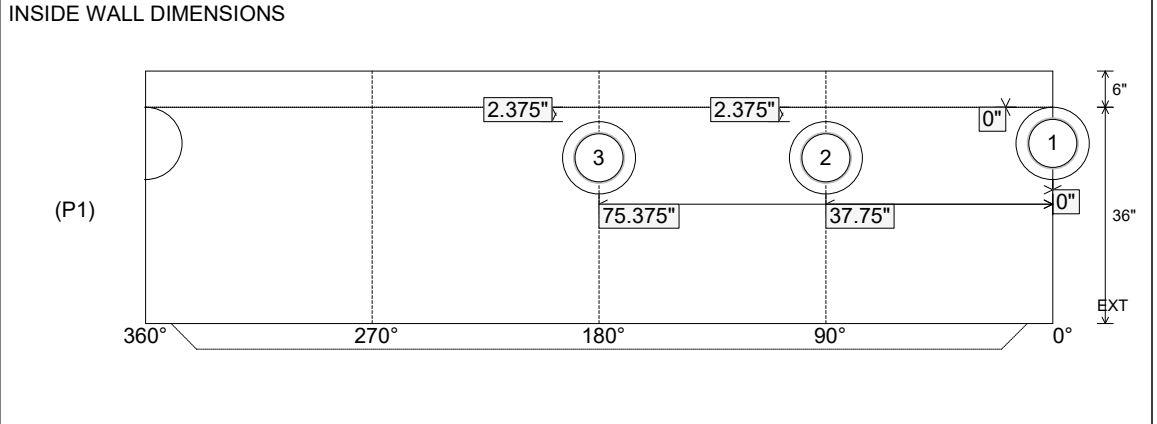
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

Height (Int): 36"

Height (Ext): 42"

Weight (Net): 3701 lb

Volume (Net): 0.94cu.yd

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1

Job Location: Nashville, TN 37208

Contractor: Hayes Pipe Supply

Plant: 100

6/15/2026 10:59:00 AM

Tech: Jared - F

PC: E. Bradley

Structure ID: PMH1 SS-MH

P1 MH048BA36CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 7"

P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"

P2) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"

1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212

1) ADMIXTURE CONBLOCK CDA RED

1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT

1) 48" - Conseal CS-102 1.00" (Double)

2) 24" - Conseal CS-102 1.00" (Double)

3) PSX - 12-08 NYLO

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

0 lb

202 lb

2251 lb

3701 lb

0 lb

0 lb

0 lb

1440 lb

0 lb

0 lb

24 lb

0 lb

Structure Total: 7619 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

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

Rim: 422.67' Rim to Invert: 6.67' Slack: 0.04" Sump: 2" Step Position: 270

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	416'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	416.2'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 3	416.2'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	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

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

Height (Int): 36"

Height (Ext): 42"

Weight (Net): 3701 lb

Volume (Net): 0.94cu.yd

Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100		Tech: Jared - F			
					6/2/2026 10:54:38 AM		PC: E. Bradley			
Structure ID: A5 (9)										
P1 MH048BA30					MH BASE T/n					
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 3" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 12" WD x 048" MAC WRAP 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD					0 lb 202 lb 3200 lb 4192 lb 3255 lb 1440 lb 0 lb 0 lb 16 lb ----- Structure Total: 12304 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 557.84' Rim to Invert: 11.7' Slack: 0.4" Sump: 2" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	546.14'	0°	0"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	0"	0"
Invert 2	546.24'	190°	96.125"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	1.25"	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): 30" Height (Ext): 36"	Weight (Net): 3255 lb Volume (Net): 0.83cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100		Tech: Jared - F			
					6/2/2026 10:54:38 AM		PC: E. Bradley			
Structure ID: A5 (9)										
P1 MH048BA30			MH BASE T/n							
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 3" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 12" WD x 048" MAC WRAP 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD					0 lb 202 lb 3200 lb 4192 lb 3255 lb 1440 lb 0 lb 0 lb 0 lb 16 lb Structure Total: 12304 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 557.84' Rim to Invert: 11.7' Slack: 0.4" Sump: 2" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	546.14'	0°	0"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	0"	0"
Invert 2	546.24'	190°	96.125"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

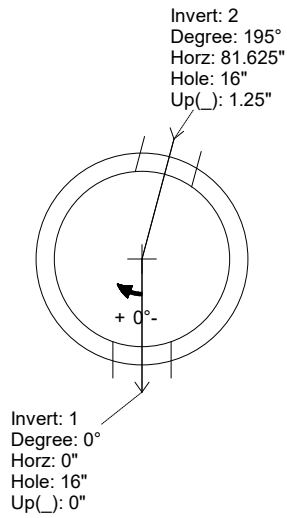
UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

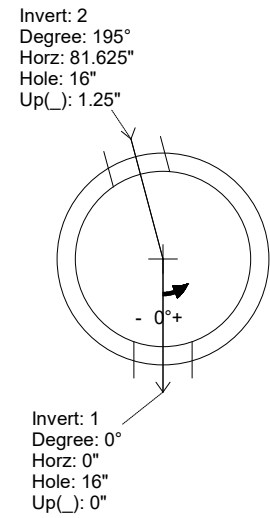
Coating (Int):	Seam Up: Tongue	Wall Thickness: 5"	Height (Int): 30"	Weight (Net): 3255 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 36"	Volume (Net): 0.83cu.yd

Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:54:38 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: A4 (8)											
P1 MH048BA30		MH BASE T/n									
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) JOINT WRAP - 12" WD x 048" MAC WRAP 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD					0 lb 3200 lb 4192 lb 3255 lb 0 lb 1440 lb 0 lb 16 lb ----- 12102 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 557.18' Rim to Invert: 11.53' Slack: 1.36" Sump: 2" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	545.65'	0°	0"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	0"	0"	
Invert 2	545.75'	195°	98.75"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

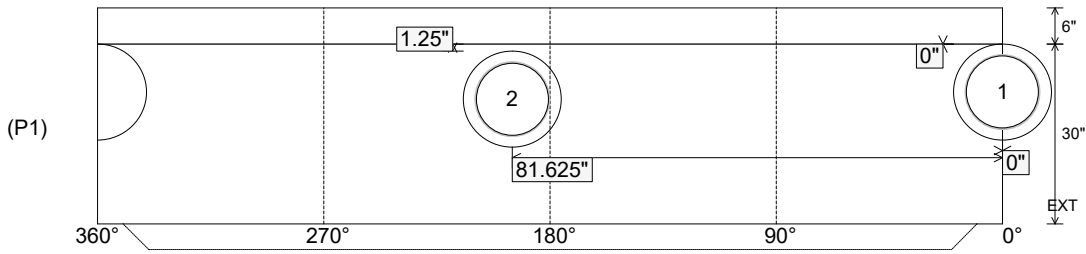
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

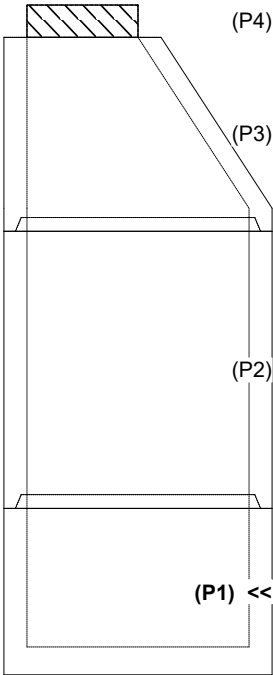


INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3255 lb Volume (Net): 0.83cu.yd
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Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:54:38 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: A4 (8)											
P1 MH048BA30		MH BASE T/n									
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) JOINT WRAP - 12" WD x 048" MAC WRAP 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD						0 lb 3200 lb 4192 lb 3255 lb 0 lb 1440 lb 0 lb 16 lb ----- Structure Total: 12102 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 557.18' Rim to Invert: 11.53' Slack: 1.36" Sump: 2" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	545.65'	0°	0"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	0"	0"	
Invert 2	545.75'	195°	98.75"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



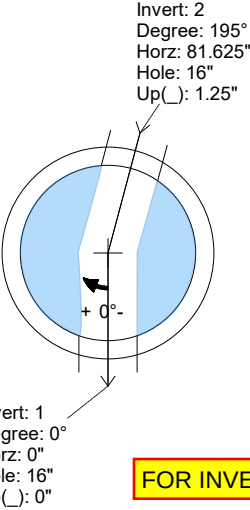
(P4)

(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

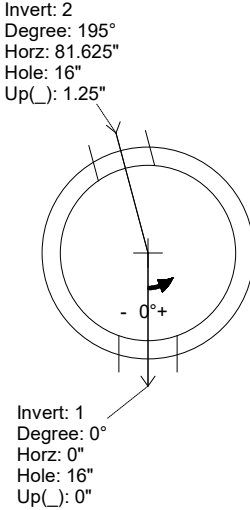


Invert: 2
Degree: 195°
Horz: 81.625"
Hole: 16"
Up(_): 1.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 16"
Up(_): 0"

FOR INVERT ONLY

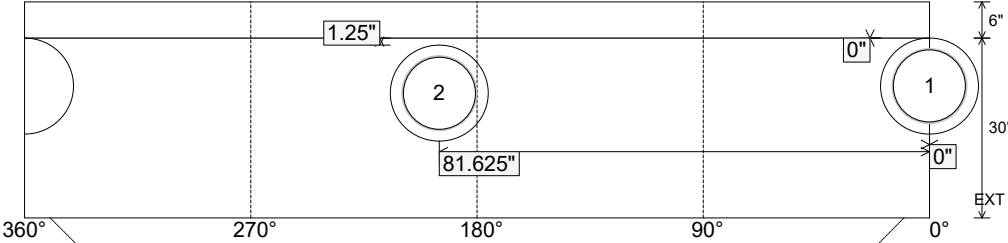
UPSIDE-DOWN VIEW (int. dimensions)



Invert: 2
Degree: 195°
Horz: 81.625"
Hole: 16"
Up(_): 1.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 16"
Up(_): 0"

INSIDE WALL DIMENSIONS



(P1)

1.25"

0"

81.625"

0"

0"

6"

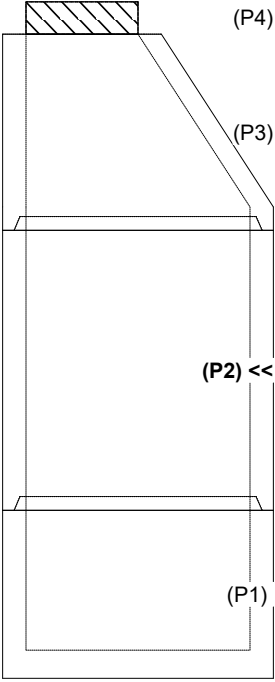
30"

EXT

360° 270° 180° 90° 0°

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): 3255 lb Volume (Net): 0.83cu.yd
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Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:56:54 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: A4 (8)											
P2 MH048RS60S MH RISER T/G											
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) JOINT WRAP - 12" WD x 048" MAC WRAP 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD					0 lb 3200 lb 4192 lb 3255 lb 0 lb 1440 lb 0 lb 16 lb ----- Structure Total: 12102 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 557.18' Rim to Invert: 11.53' Slack: 1.36" Sump: 2" 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											



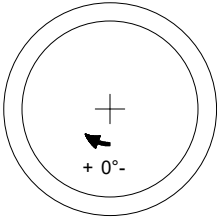
(P4)

(P3)

(P2) <<

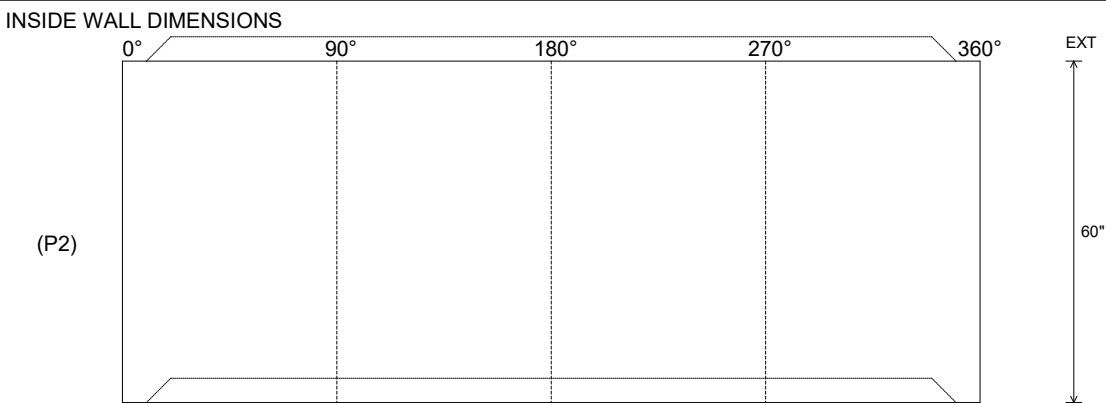
(P1)

RIGHT-SIDE UP VIEW (int. dimensions)



+ 0°-

INSIDE WALL DIMENSIONS



(P2)

EXT 60"

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 60" Height (Ext): 60"	Weight (Net): 4192 lb Volume (Net): 1.07cu.yd
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Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1
Job Location: Nashville, TN 37208
Contractor: Hayes Pipe Supply

Plant: 100

6/15/2026 11:00:21 AM

Tech: Jared - F
PC: E. Bradley



Structure ID: A2 ST-CI

P2 MH060LD06SP

MH FLAT TOP w/28"x28" Hole F/F

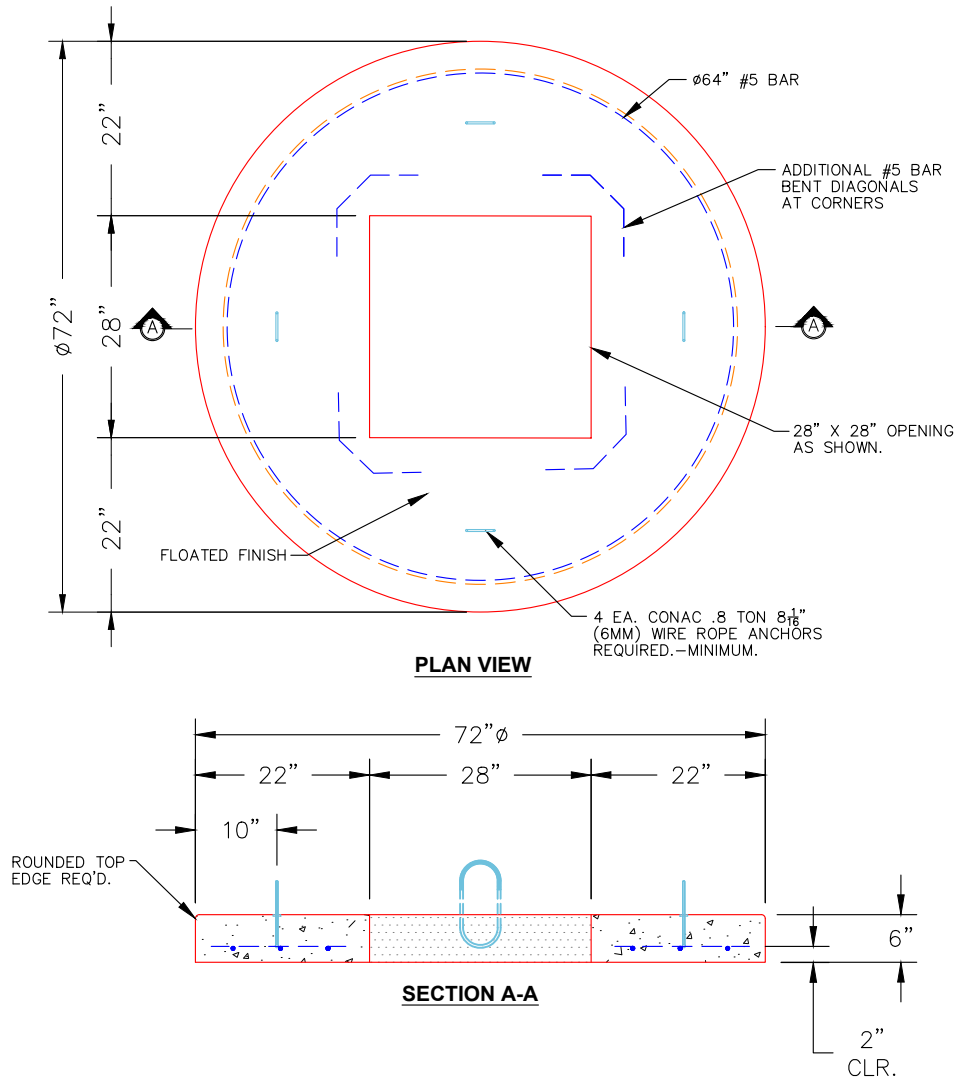
- P3) 28" x 28" - CASTING HEIGHT - 7.50"
P2) 60" - MH FLAT TOP w/28"x28" Hole F/F - 6"
P1) 60" - MH BASE Custom Ht F/n - 32"
1) 60" - Conseal CS-102 1.00"
1) 28" x 28" - Conseal CS-102 1.00"
2) Hole - 40 x 28
2) MH Step ML-10-TDS-NCR - 10"

Structure Total: 6775 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. CASTING SUPPLIED BY OTHERS (JBS 3300 F/G/H - SINGLE CURB INLET)

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.



NOTES:

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

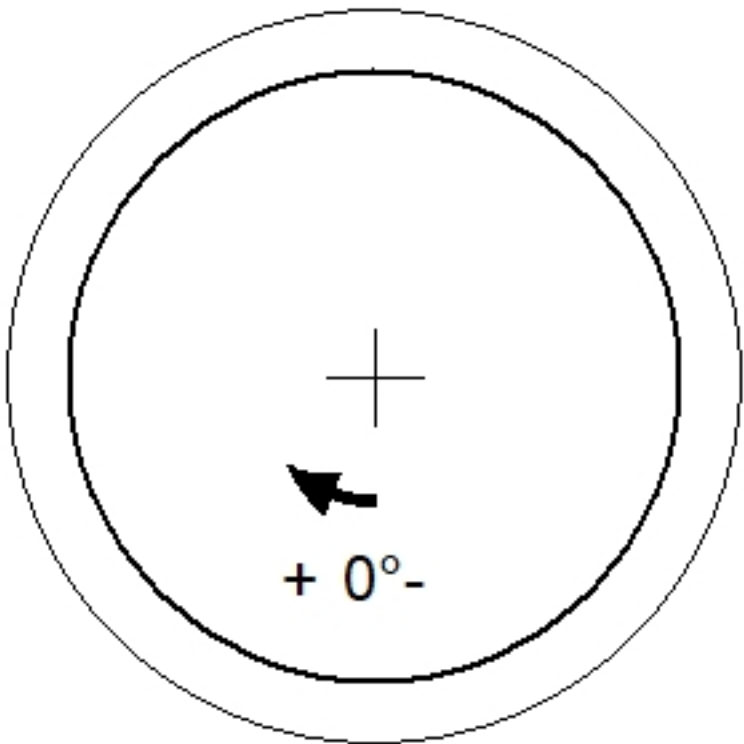
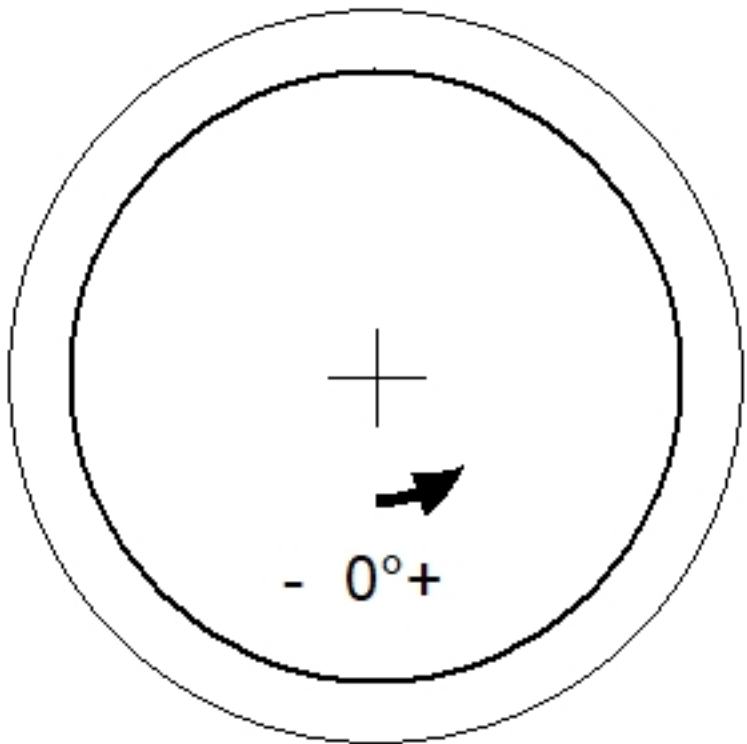
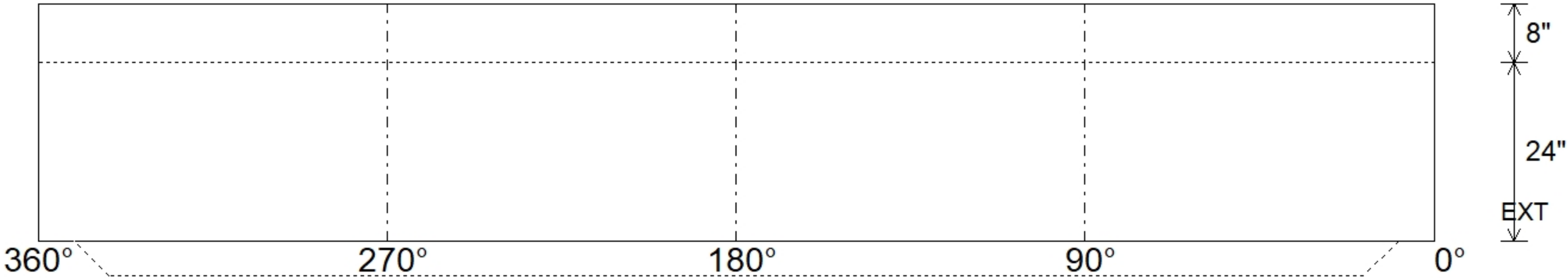
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 1656 lb
Volume (Net): 0.42cu.yd

Job Name: 26-2736 ADS UA Local 52 Job Location: Louisville, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 7/9/2026 9:08:38 AM		Tech: S. Felletter PC: T. Ryan						
Structure ID: S110													
P1		MH060BA24			MH BASE T/n								
P6) 24" - CASTING HEIGHT - 7" P5) 60" - MH FLAT TOP w/24" Ctr. Hole F/G - 13" P4) 60" - MH RISER T/G - 24" P3) 60" - MH RISER T/G - 72" P2) 60" - MH RISER T/G - 72" P1) 60" - MH BASE T/n - 24" 1) ASSEMBLY REQUIRED 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-375 F/C Storm 4) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) Hole - 12						0 lb 2674 lb 2505 lb 7516 lb 7402 lb 5239 lb 0 lb 0 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"). . 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: 549.66' Rim to Invert: 11.04' Slack: 1.48" 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)  UPSIDE-DOWN VIEW (int. dimenions) 													
INSIDE WALL DIMENSIONS 													
Coating (Int): Coating (Ext):				Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 6" Floor Height: 8"		Height (Int): 24" Height (Ext): 32"		Weight (Net): 5239 lb Volume (Net): 1.34cu.yd			

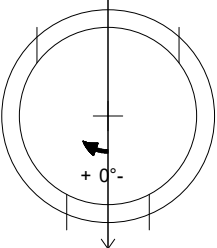


Weight (Net): 7650 lb
Volume (Net): 1.95cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1 Job Location: Murfreesboro, TN Contractor: Bear Construction LLC					Plant: Beaver Dam 6/9/2026 10:37:24 AM		Tech: S. Felletter PC: Erica Bradley				
Structure ID: R44											
P1		MH060BA60		MH BASE F/n							
P2) 60" - MH FLAT TOP - TDOT D-RJB-1 (SOLID) F/F - 8" P1) 60" - MH BASE F/n - 60" 1) 60" - STORM INVERT CHANNEL - 1/4 HEIGHT 1) 60" - Conseal CS-102 1.00" 1) Hole - 28 1) Hole - 48					2733 lb 7650 lb 1700 lb 0 lb 0 lb 0 lb ----- Structure Total: 12083 lb		Structure Notes: 1. PER TDOT D-RJB-1 / ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. REINFORCING PER ASTM A615 (GRADE 60). ** SEE TDOT STD DRAWING D-RJB-1 ** - TOP SLAB (As .49) #5 BARS AT 6" C.C.E.W. - WALLS (As .47) #5 BARS AT 8" C.C.E.W. - FLOOR (As .47) #5 BARS AT 8" C.C.E.W.				
Rim: 569.59' Rim to Invert: 11.04' Slack: 68.48" Sump: 4" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	558.55'	0°	0"	18" RCP B WALL	23"	Hole 28	28"	29.131"	1.5"	0"	
Invert 2	558.55'	180°	113.097"	36" RCP B WALL	44"	Hole 48	48"	55.638"	0"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)

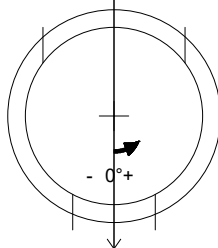
Invert: 2
Degree: 180°
Horz: 94.248"
Hole: 48"
Up(): 0"



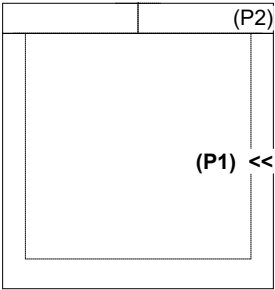
Invert: 1
Degree: 0°
Horz: 0"
Hole: 28"
Up(): 1.5"

UPSIDE-DOWN VIEW (int. dimensions)

Invert: 2
Degree: 180°
Horz: 94.248"
Hole: 48"
Up(): 0"



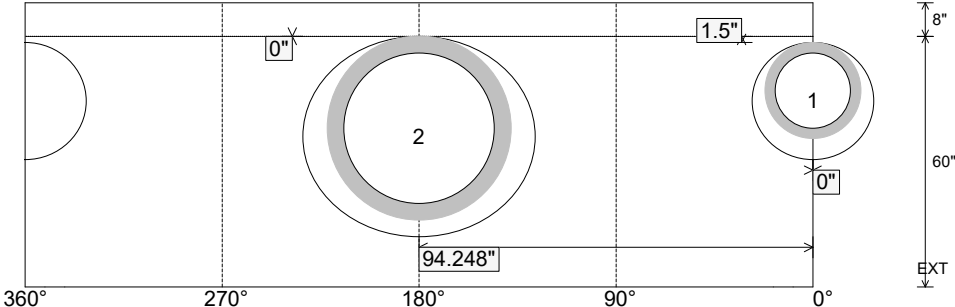
Invert: 1
Degree: 0°
Horz: 0"
Hole: 28"
Up(): 1.5"



(P2)

(P1) <<

INSIDE WALL DIMENSIONS



(P1)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 60" Height (Ext): 68"	Weight (Net): 7650 lb Volume (Net): 1.95cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100		Tech: J. Horsley - A			
					3/20/2026 1:21:45 PM		PC: Celina Goff			
Structure ID: 2301559										
P1 MH060DPVF			MH BASE (10"F) w/DROP Custom Ht T/n							
P6) 24" - CASTING HEIGHT - 7" P5) 48" - CON CONE w/24" HOLE F/G - 24" P4) 48" - MH RISER T/G - 36" P3) 60" - MH Transition Slab 48" Hole T/G - 15" P2) 60" - MH RISER w/DROP Custom Ht T/G - 52" P1) 60" - MH BASE (10"F) w/DROP Custom Ht T/n - 60" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 14) MH Step ML-10-TDS-NCR - 10"					0 lb 2252 lb 2515 lb 2204 lb 5400 lb 11306 lb 2692 lb 3010 lb 2236 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 31617 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 270 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS 7. EXTERIOR DROP AT INVERTS 2 & 4 SUPPLIED BY ICAST			
					FIRST POUR (BASE): 11,306 LBS SECOND POUR (DROP): 3,010 LBS					
Rim: 757.64'		Rim to Invert: 16.08'		Slack: 1.96"		Sump: 3"		Step Position: 270°		
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	741.56'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2										
Invert 3	741.66'	182°	114.375"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 4	743.36'	71°	44.625"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

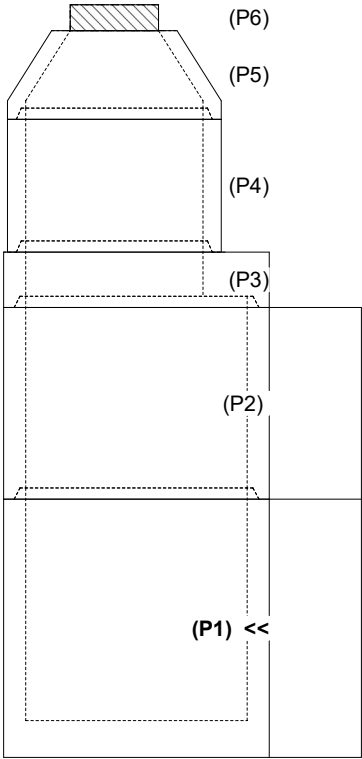
	RIGHT-SIDE UP VIEW (int. dimensions) UPSIDE-DOWN VIEW (int. dimensions)
INSIDE WALL DIMENSIONS 	

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 10"	Height (Int): 60" Height (Ext): 70"	Weight (Net): 11306 lb Volume (Net): 2.89cu.yd
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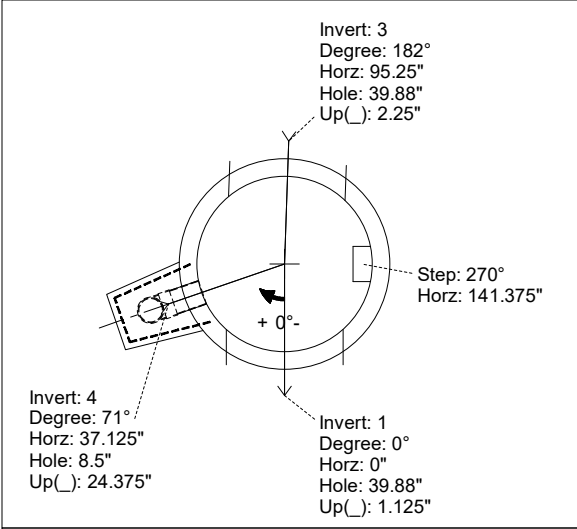
Weight (Net): 11306 lb
Volume (Net): 2.89cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting				Plant: 100 3/20/2026 1:21:45 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301559										
P1 MH060DPVF		MH BASE (10"F) w/DROP Custom Ht T/n								
P6) 24" - CASTING HEIGHT - 7" P5) 48" - CON CONE w/24" HOLE F/G - 24" P4) 48" - MH RISER T/G - 36" P3) 60" - MH Transition Slab 48" Hole T/G - 15" P2) 60" - MH RISER w/DROP Custom Ht T/G - 52" P1) 60" - MH BASE (10"F) w/DROP Custom Ht T/n - 60" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 14) MH Step ML-10-TDS-NCR - 10"					0 lb 2252 lb 2515 lb 2204 lb 5400 lb 11306 lb 2692 lb 3010 lb 2236 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb ----- 31617 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 270 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS 7. EXTERIOR DROP AT INVERTS 2 & 4 SUPPLIED BY ICAST			
Rim: 757.64' Rim to Invert: 16.08' Slack: 1.96" Sump: 3" Step Position: 270°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	741.56'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2										
Invert 3	741.66'	182°	114.375"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 4	743.36'	71°	44.625"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										



(P6)
(P5)
(P4)
(P3)
(P2)
(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 3
Degree: 182°
Horz: 95.25"
Hole: 39.88"
Up(): 2.25"

Step: 270°
Horz: 141.375"

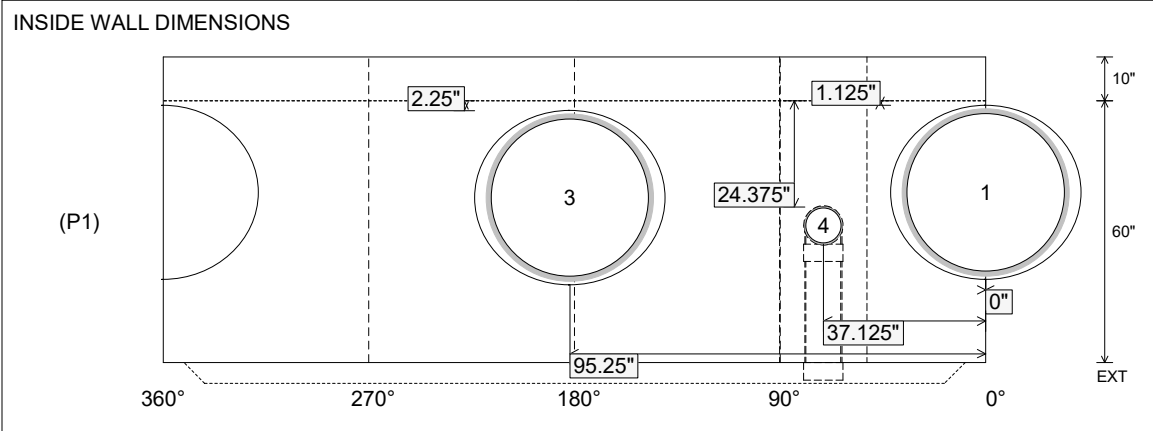
Invert: 4
Degree: 71°
Horz: 37.125"
Hole: 8.5"
Up(): 24.375"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 39.88"
Up(): 1.125"

UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



(P1)

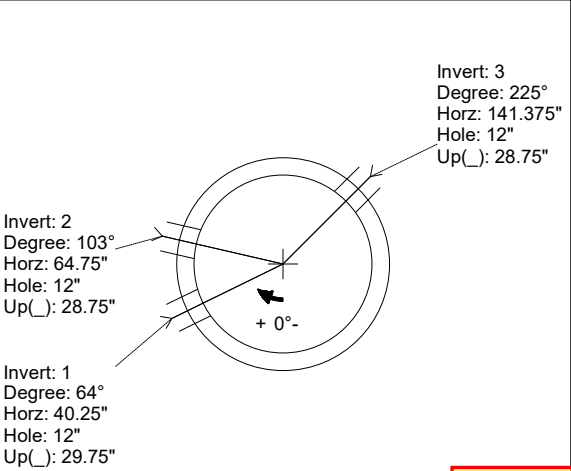
360° 270° 180° 90° 0°

EXT

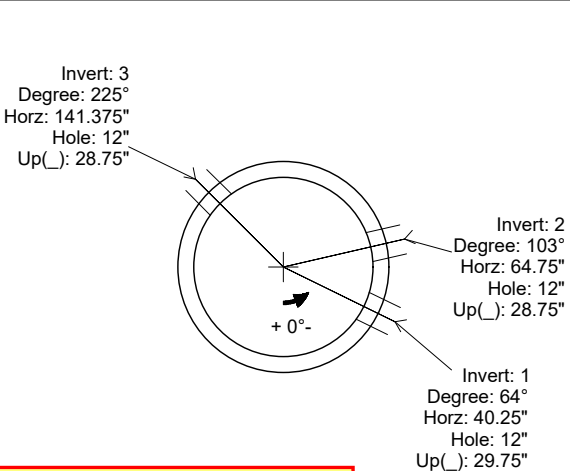
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 10"	Height (Int): 60" Height (Ext): 70"	Weight (Net): 11306 lb Volume (Net): 2.89cu.yd
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Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100 6/2/2026 7:31:15 PM		Tech: Jared - F PC: J Jarvis				
Structure ID: SCUM W.W.											
P1 MH072BAEVF		MH BASE EF Cust. Ht. 12"F (8"EF =102"OD) T/n									
P6) 30" x 60" - CASTING HEIGHT - 0" P5) 72" - MH FLAT TOP w/30"x60" Hatch F/F - 10" P4) 72" - MH RISER Custom Ht F/G - 62" P3) 72" - MH RISER T/G - 84" P2) 72" - MH RISER T/G - 84" P1) 72" - MH BASE EF Cust. Ht. 12"F (8"EF =102"OD) T/n - 72" 1) JOINT WRAP - 12" WD x 084" MH MAC WRAP 1) HATCH (Alum.) - HALLIDAY W1S 30"x60" 4) 72" - Conseal CS-231 1.00" (Double) 1) PSX - 12M NYLO 2) PSX - 12-06 NYLO					0 lb 3364 lb 9038 lb 12246 lb 12246 lb 18524 lb 0 lb 102 lb 0 lb 8 lb 16 lb ----- Structure Total: 55543 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 30"X60"). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W. (DOUBLE MAT) - RISER/WALLS (As .12) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W. (DOUBLE MAT)				
Rim: 454'		Rim to Invert: 23.75'		Slack: 4.8"		Sump: 31.8"		Step Position:			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	430.25'	64°	48"	8" DI	9"	PSX 12M NYLO	12"	12.056"	29.75"	0"	
Invert 2	430.25'	103°	77.25"	6" DI	6.875"	PSX 12-06 NYLO	12"	12.056"	28.75"	0"	
Invert 3	430.25'	225°	168.875"	6" DI	6.875"	PSX 12-06 NYLO	12"	12.056"	28.75"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)

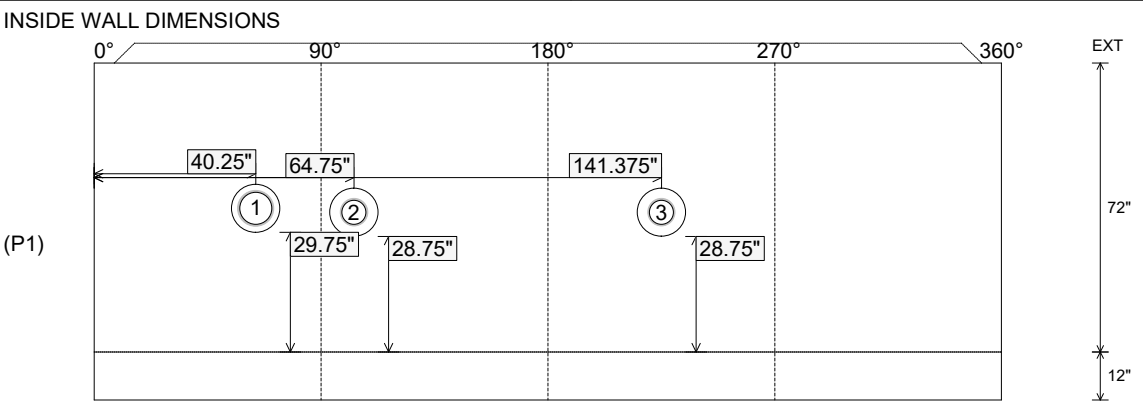


UPSIDE-DOWN VIEW (int. dimensions)



1ST POUR (BASE) = 16,146 LBS
2ND POUR (EXTENDED FLANGE) = 2,378 LBS

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	#5 BAR DOWELS @ 18" O.C TO BE DRILLED IN BASE SLAB FOR FLANGE ATTACHMENT	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 7" Floor Height: 12"	Height (Int): 72" Height (Ext): 84"	Weight (Net): 18524 lb Volume (Net): 4.73cu.yd
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Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion

Job Location: Shepherdsville, KY

Contractor: Pace Contracting, LLC

Plant: 100

6/2/2026 7:31:15 PM

Tech: Jared - F

PC: J Jarvis

Structure ID: SCUM W.W.

P1 MH072BAEVF

MH BASE EF Cust. Ht. 12"F (8"EF =102"OD) T/n

P6) 30" x 60" - CASTING HEIGHT - 0"

P5) 72" - MH FLAT TOP w/30"x60" Hatch F/F - 10"

P4) 72" - MH RISER Custom Ht F/G - 62"

P3) 72" - MH RISER T/G - 84"

P2) 72" - MH RISER T/G - 84"

P1) 72" - MH BASE EF Cust. Ht. 12"F (8"EF =102"OD) T/n - 72"

1) JOINT WRAP - 12" WD x 084" MH MAC WRAP

1) HATCH (Alum.) - HALLIDAY W1S 30"x60"

4) 72" - Conseal CS-231 1.00" (Double)

1) PSX - 12M NYLO

2) PSX - 12-06 NYLO

0 lb

3364 lb

9038 lb

12246 lb

12246 lb

18524 lb

0 lb

102 lb

0 lb

8 lb

16 lb

Structure Total: 55543 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 30"X60").

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W. (DOUBLE MAT)

- RISER/WALLS (As .12)

- FLOOR (As .37) #5 BARS AT 10" C.C.E.W. (DOUBLE MAT)

Rim: 454'

Rim to Invert: 23.75'

Slack: 4.8"

Sump: 31.8"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	430.25'	64°	48"	8" DI	9"	PSX 12M NYLO	12"	12.056"	29.75"	0"
Invert 2	430.25'	103°	77.25"	6" DI	6.875"	PSX 12-06 NYLO	12"	12.056"	28.75"	0"
Invert 3	430.25'	225°	168.875"	6" DI	6.875"	PSX 12-06 NYLO	12"	12.056"	28.75"	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

1ST POUR (BASE) = 16,146 LBS

2ND POUR (EXTENDED FLANGE) = 2,378 LBS

#5 BAR DOWELS @ 18" O.C TO BE DRILLED IN BASE SLAB FOR FLANGE ATTACHMENT

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 7"

Floor Height: 12"

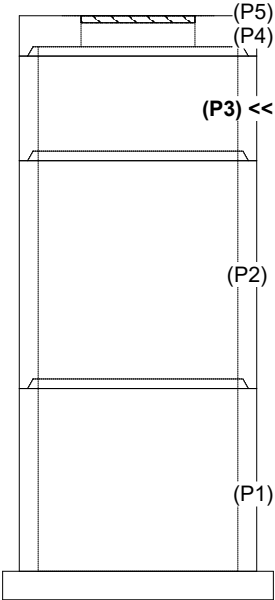
Height (Int): 72"

Height (Ext): 84"

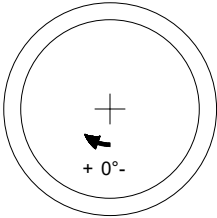
Weight (Net): 18524 lb

Volume (Net): 4.73cu.yd

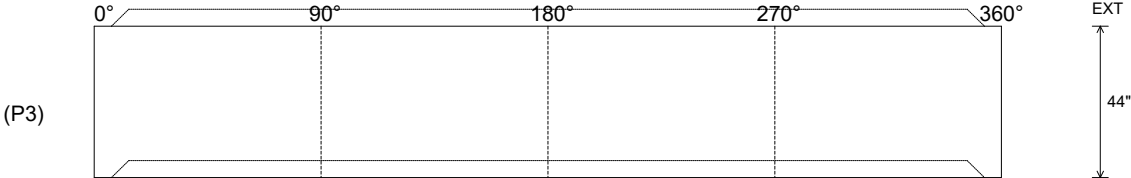
Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100 6/4/2026 3:35:44 PM		Tech: Jared - F PC: J Jarvis				
Structure ID: PROCESS RETURN P.S.											
P3 MH084RSVF			MH RISER Custom Ht T/G								
P5) 48" x 60" - HATCH (CAST FLUSH) - 3" P4) 84" - MH FLAT TOP w/48"x60" Hatch F/G - 17" P3) 84" - MH RISER Custom Ht T/G - 44" P2) 84" - MH RISER T/G - 96" P1) 84" - MH BASE w/FLANGE (12F/07EF) T/n - 77" 1) JOINT WRAP - 12" WD x 084" MH MAC WRAP 1) HATCH (Alum.) - HALLIDAY W2S 48"x60" 3) 84" - Conseal CS-231 1.00" (Double) 1) 48" x 60" - Conseal CS-231 1.00" (Double) 2) Z-Lok - C107-8 1) PSX - 8QRS-S NYLO 1) PSX - 16Y NYLO 2) PSX - 12-06 NYLO 1) Kor-N-Seal2 - S206-18L					100 lb 5512 lb 8537 lb 17932 lb 25218 lb 0 lb 126 lb 0 lb 0 lb 2 lb 6 lb 8 lb 16 lb 6 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. HATCH SUPPLIED BY I-CAST (HALLIDAY W2S 48"x60"). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W (DOUBLE MAT). - RISER/WALLS (As .36) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W (DOUBLE MAT).				
Rim: 448.25' Rim to Invert: 12.25' Slack: 0" Sump: 87" Step Position:					Structure Total: 57463 lb						
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: 8" Floor Height: 0"	Height (Int): 44" Height (Ext): 44"	Weight (Net): 8537 lb Volume (Net): 2.18cu.yd
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Job Name: 25-3187 - Carter Caves WTP Upgrades Ph 3
Job Location: Olive Hill, KY
Contractor: Walker Principles

Plant: 100
7/6/2026 11:03:33 AM

Tech: J. Horsley
PC: E. Bradley



Structure ID: RAS/WAS WW

P3 MH096RS96

MH RISER

- P5) 96" - MH FLAT TOP w/36"x54" Hatch - 17"
P4) 96" - MH RISER Custom Ht - 88"
P3) 96" - MH RISER - 96"
P2) 96" - MH RISER - 96"
P1) 96" - MH SEPARATE BASE-T EXT. 14" (142" OD) - 12"
4) JOINT WRAP - 12" WD x 096" MAC WRAP
1) HATCH (Alum.) - HALLIDAY W1S 36"x54"
4) 96" - Con Seal CS-231 1.00" (Double)
1) A-Lok - 0150
2) Quik-Lok - QL-04-C
5) A-Lok - 0225

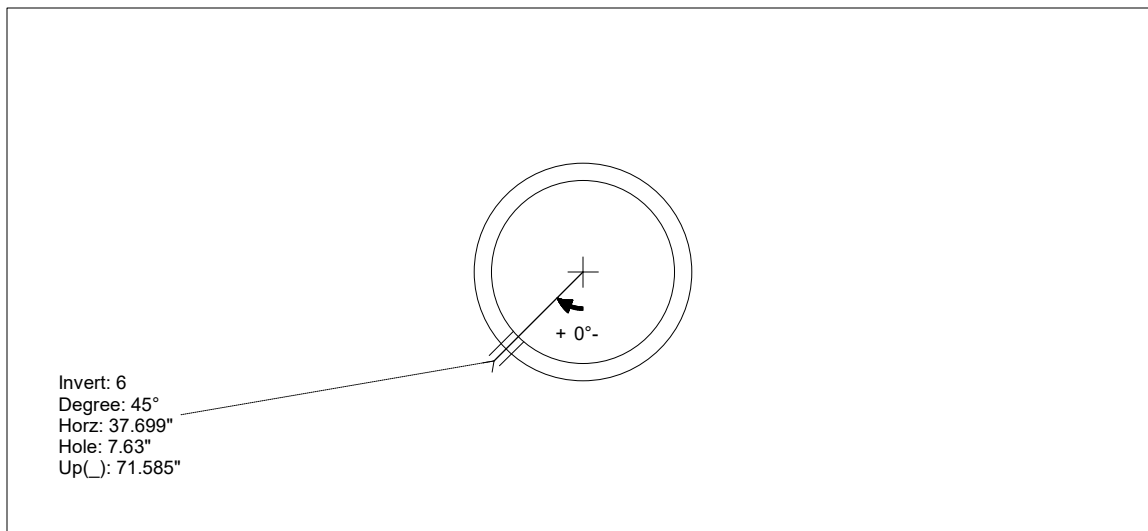
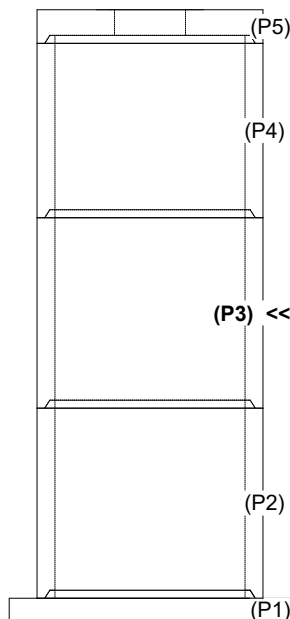
- 8969 lb
21734 lb
23881 lb
23881 lb
19580 lb
0 lb
107 lb
0 lb
1 lb
2 lb
5 lb
- Structure Notes: .
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. NO STEPS / NO INVERT CHANNEL.
4. HATCH BY ICAST (HALLIDAY W1S 36"x54")
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .24)
- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

Structure Total: 98160 lb

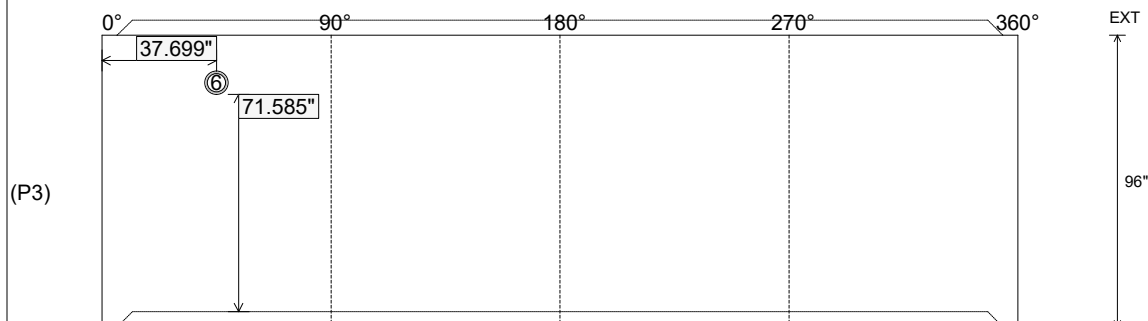
Rim: 890.5' Rim to Invert: 18.4' Slack: 0.6" Sump: 76.8" Step Position:

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	880.15'	45°	44.768"	6" DI	6.875"	A-Lok 0225	7.63"	7.638"	71.585"	0"
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: 9"
Floor Height: 0"

Height (Int): 96"
Height (Ext): 96"

Weight (Net): 23881 lb
Volume (Net): 6.1cu.yd

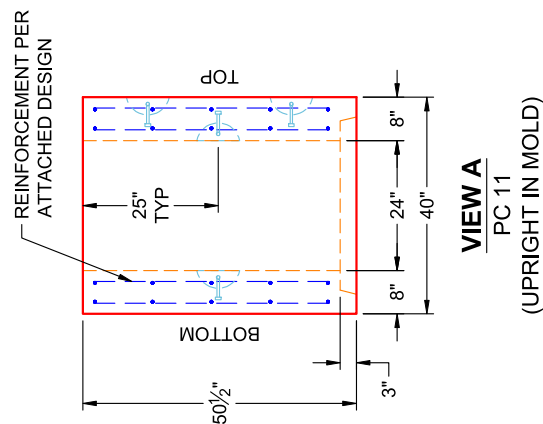
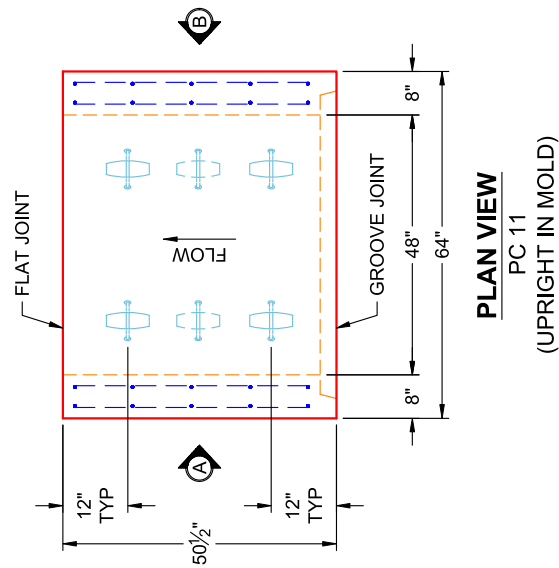
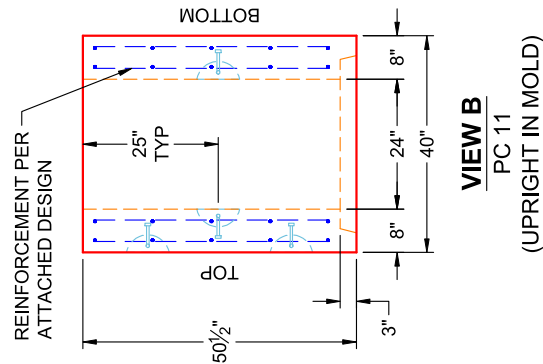
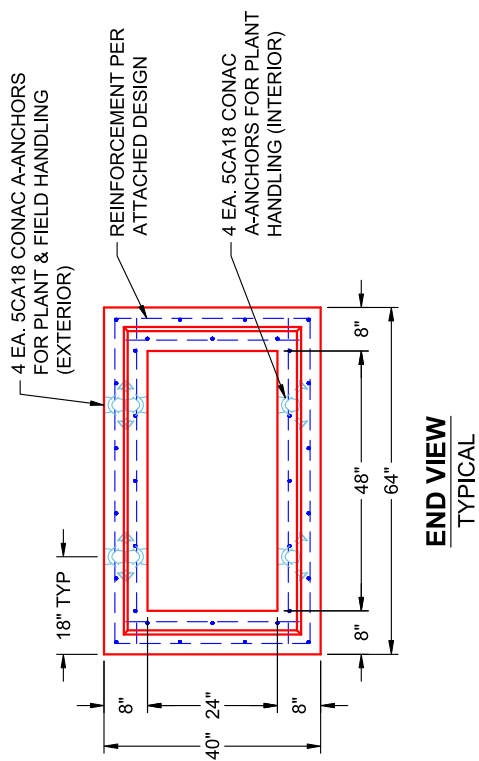
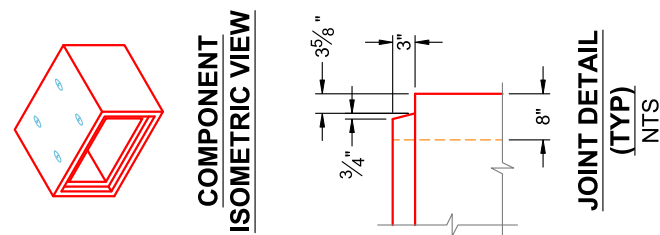
Job Name: 25-2073 - Alcoa Outfall
Job Location: Newburgh, IN
Contractor: Bowen Engineering Corporation

Plant: 100
7/11/2026 9:06:20 AM

Tech: J. Horsley
PC: A. Chambers



Structure ID: BC 4 x 2 (PC 11)
P1 BC0480024-08WLF BOX CULVERT (08W/08F/08T) No Haunch & Tongue



- GENERAL NOTES:**
- MANUFACTURED TO ASTM C-1577 & SECTION 714 OF INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES
 - LOAD REQUIREMENTS: HL93
 - REINFORCEMENT PER ATTACHED DESIGN
 - COVER DEPTH: 4'-8"
 - CONCRETE: 5,000 PSI AT 28 DAYS
 - JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
 - WEIGHT: 4' X 2' (48" X 24") RCBC = 1,418 LBS / LF (50 1/2" LONG SECTION = 5,967 LBS)

INFRASTRUCTURE PRECAST (ICAST)

Project : Alcoa Outfall

Task :

Job No. : 25-2073

Client: Bowen Engineering Co

File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

Page 1 of 3

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

Physical Dimensions

Clear Span: 4'-0"
Clear Height: 2'-0"
Top Slab: 8"
Bottom Slab: 8"
Ext. Wall: 8"
Fill Depth Range
Maximum: 7.99 ft
Minimum: 4.00 ft
Increment: 0.50 ft
Length: 5'-9"
Skew Angle: 0.00 deg
Bottom Slab Support: Full Slab
Top Haunch, Width: 0"
Top Haunch, Height: 0"
Bottom Haunch, Width: 0"
Bottom Haunch, Height: 0"

Material Properties

Concrete
Strength, f'c: 5.000 ksi
Density: 0.150 kcf
Elasticity, Ec: 3834 ksi
Type: Normal wt
Steel
Yield, fy: 60 ksi
Allow Stress: 36 ksi
Elasticity, Es: 29000 ksi
Soil
Density: 0.120 kcf
Exposure Factor
Class 2 Exposure
Reinforcement Covers
Ext. Cover Top Slab: 2"
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: NaN
Operating Rating: NaN

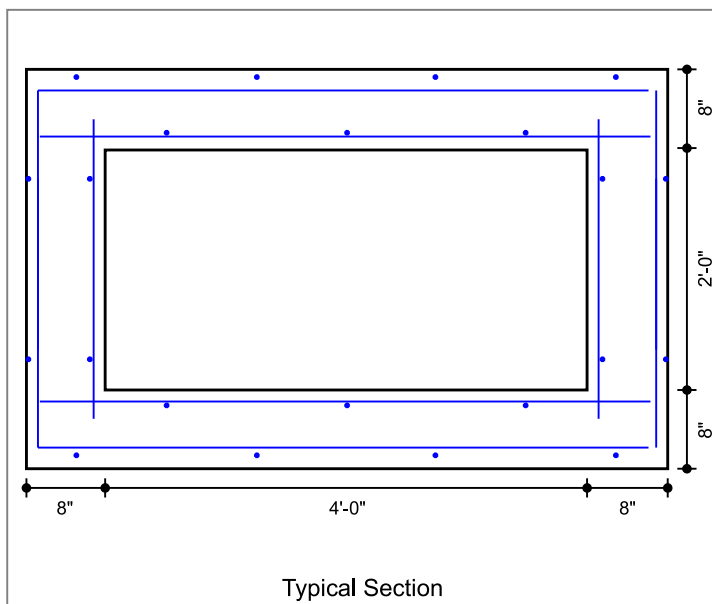
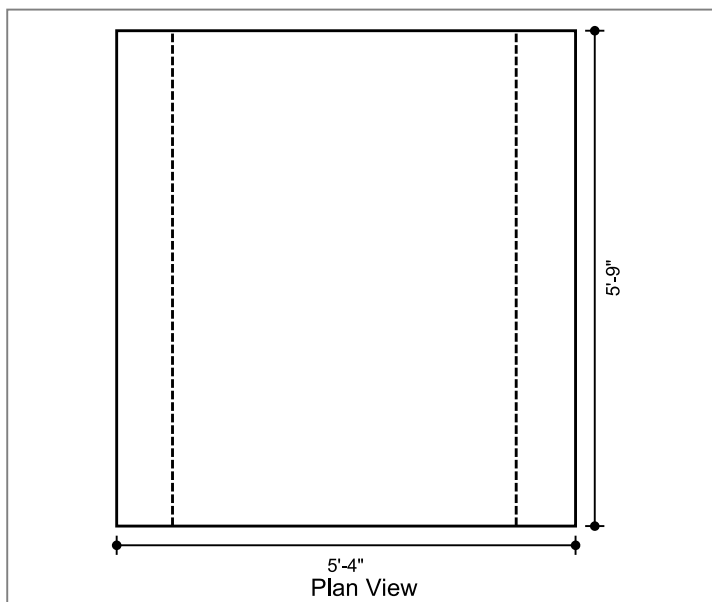
Loads

Live Load
Vehicle Names: HL-93
Traffic Direction: Parallel
Eq. Height of Soil: Calculated
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



INFRASTRUCTURE PRECAST (ICAST)

Project : Alcoa Outfall

Task :

Job No. : 25-2073

Client: Bowen Engineering Co

File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

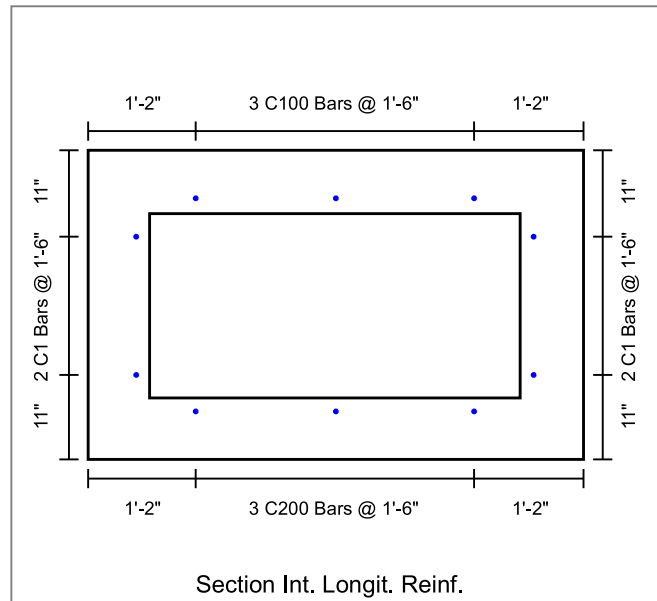
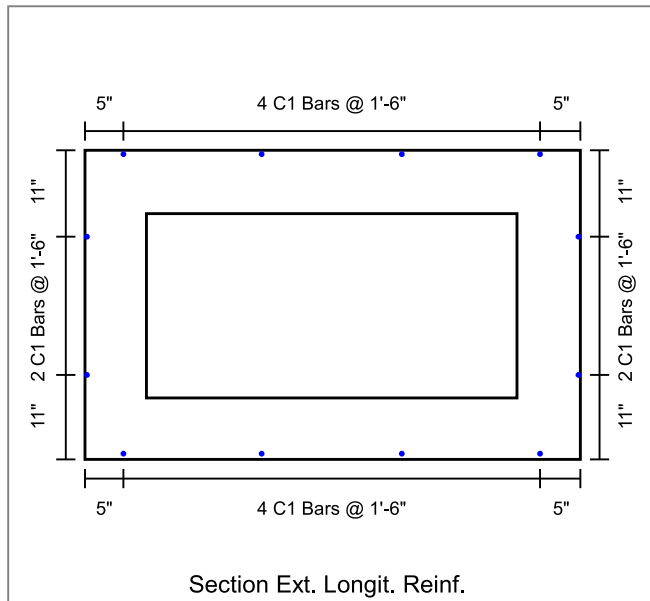
etc of 3

Concrete Summary

Volume of Concrete: 0.362 cy/ft Total Volume of Concrete: 2.082 cy

Reinforcing Steel Bar Schedule (lb)

Location	Mark	Qty	Size	Spacing	Type	Length	Center	Ver.Leg	Tot.Weight
Top Slab(Int)	A100 (AS2)	6	4	1'-0"	S	5'-1"	--	--	20.0
Bot Slab(Int)	A200 (AS3)	6	4	1'-0"	S	5'-1"	--	--	20.0
Corner(Top)	A1 (AS1)	6	4	1'-0"	U	9'-5"	5'-1"	2'-2"	38.0
Corner(Bot)	A2 (AS1)	6	4	1'-0"	U	9'-7"	5'-1"	2'-3"	38.0
Wall(Int)	B1 (AS4)	12	4	1'-0"	S	2'-6"	--	--	20.0
Longit. Top (Int)	C100 (AS5)	3	3	1'-6"	S	5'-8"	--	--	6.0
Longit. Bot (Int)	C200	3	3	1'-6"	S	5'-8"	--	--	6.0
Longit. Top (Ext)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
Longit. Bot (Ext)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
Longit. Wall (Ext)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
Longit. Wall (Int)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
									182

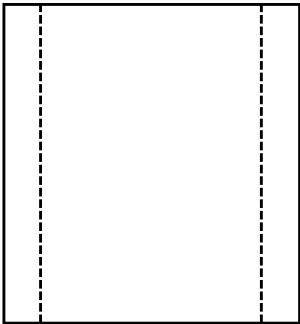


INFRASTRUCTURE PRECAST (ICAST)

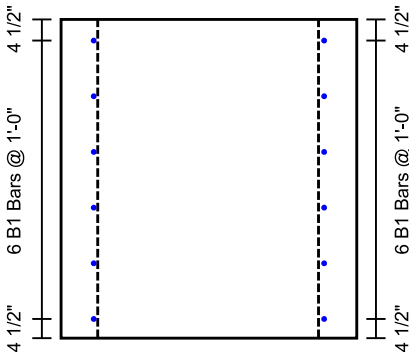
Project : Alcoa Outfall
Task :
Job No. : 25-2073

Client: Bowen Engineering Co
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

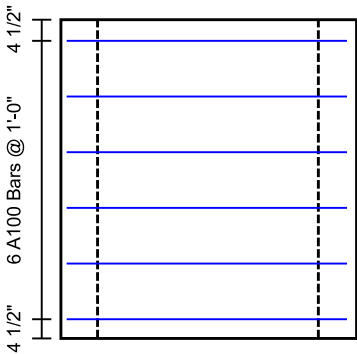
Sht _____ of _____
By: J. Horsley
Ck: _____
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Page 3 of 3



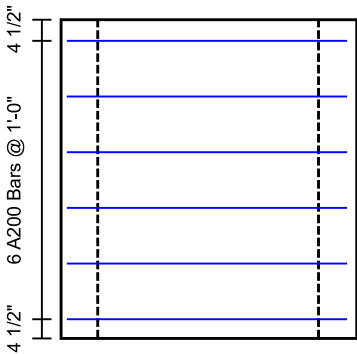
Ext. Wall Reinf.



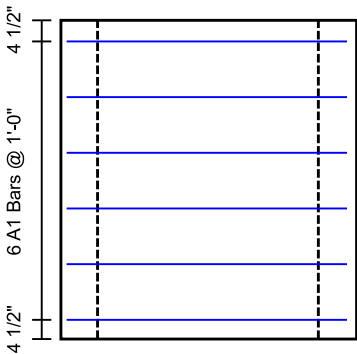
Int. Wall Reinf.



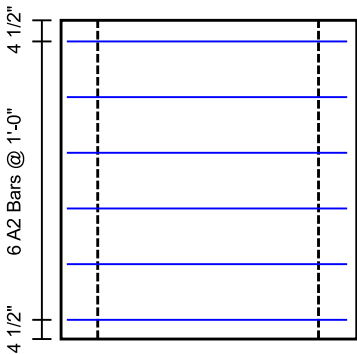
Top Slab Int. Reinf.



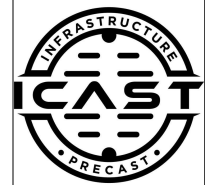
Bottom Slab Int. Reinf.



Top Slab Corner Reinf.



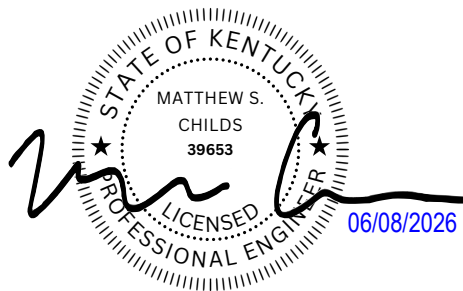
Bottom Slab Corner Reinf.



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

Weight (Net): 48363 lb
Volume (Net): 12.35cu.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)

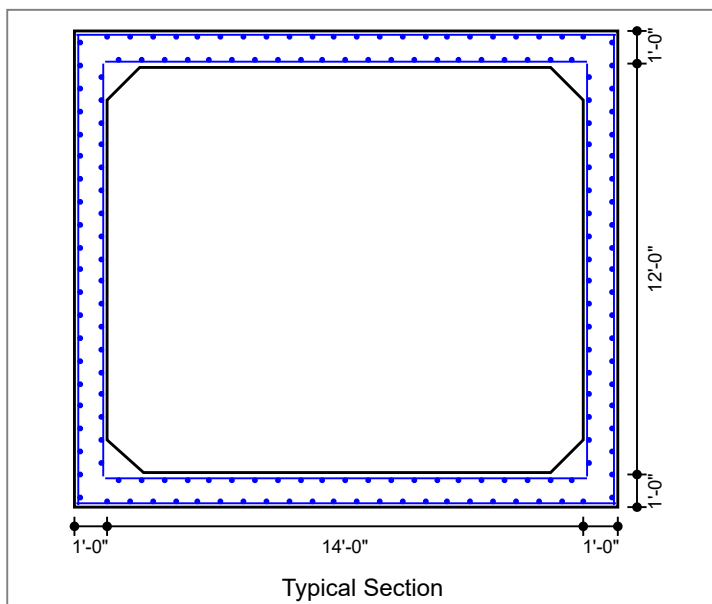
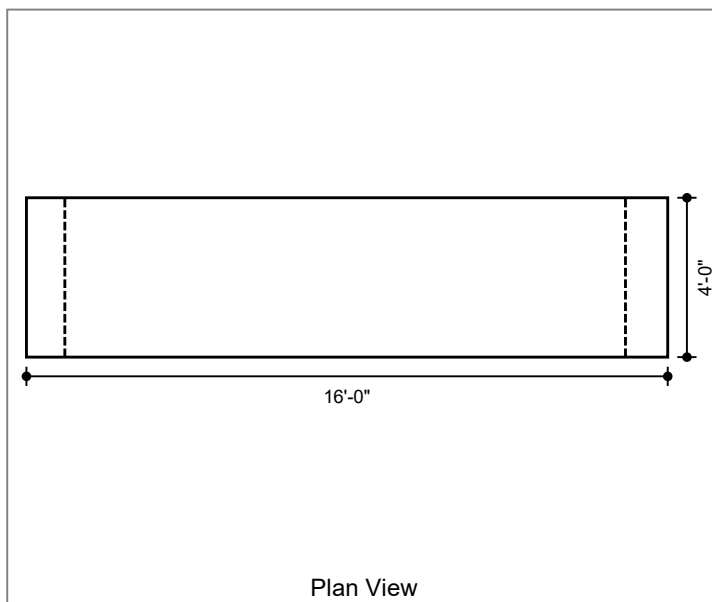
Dead Load

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 7:52:48 AM

Tech: J. Horsley

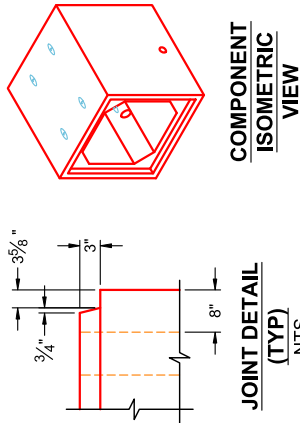
PC: C. Goff



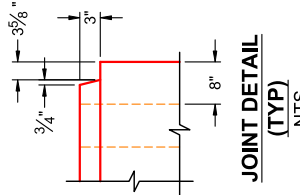
Structure ID: St. 45+00 (PC 7)

P1 BC048048-08WLF-9H

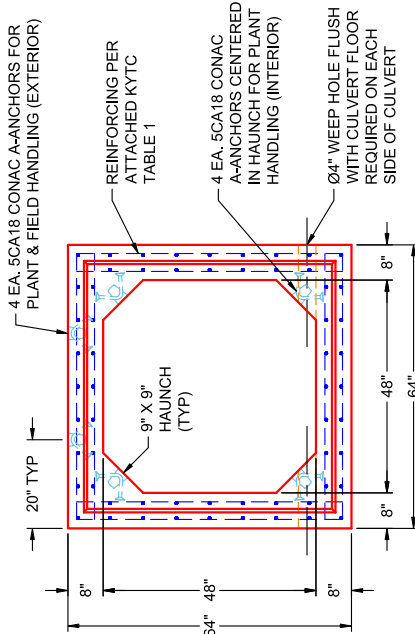
BOX CULVERT (08W/08F/08T) G/T



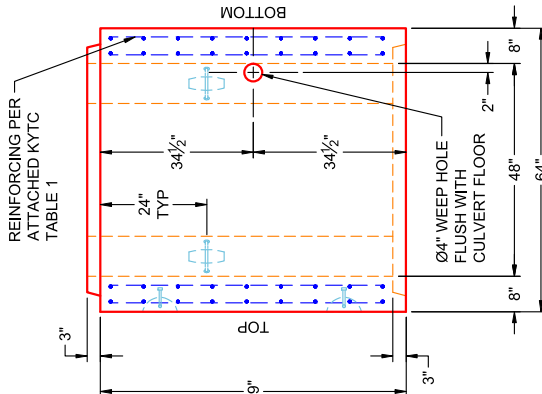
COMPONENT
ISOMETRIC
VIEW



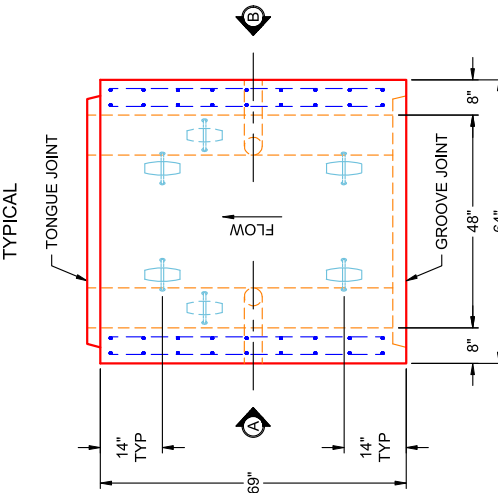
JOINT DETAIL
(TYP)
NTS



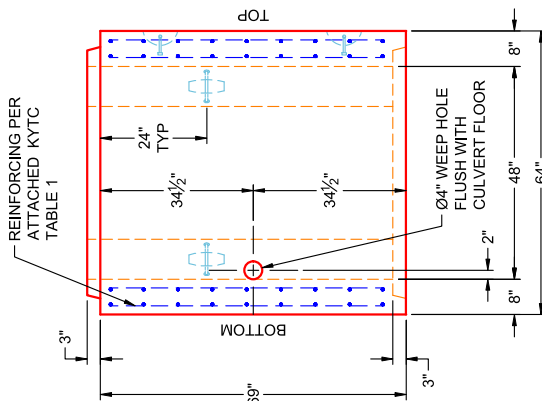
END VIEW
TYPICAL



VIEW B
PC 7
(UPRIGHT IN MOLD)



PLAN VIEW
PC 7
(UPRIGHT IN MOLD)



VIEW A
PC 7
(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 7)

ORDER NO: 24-1643B

PE: J.H. ROSS

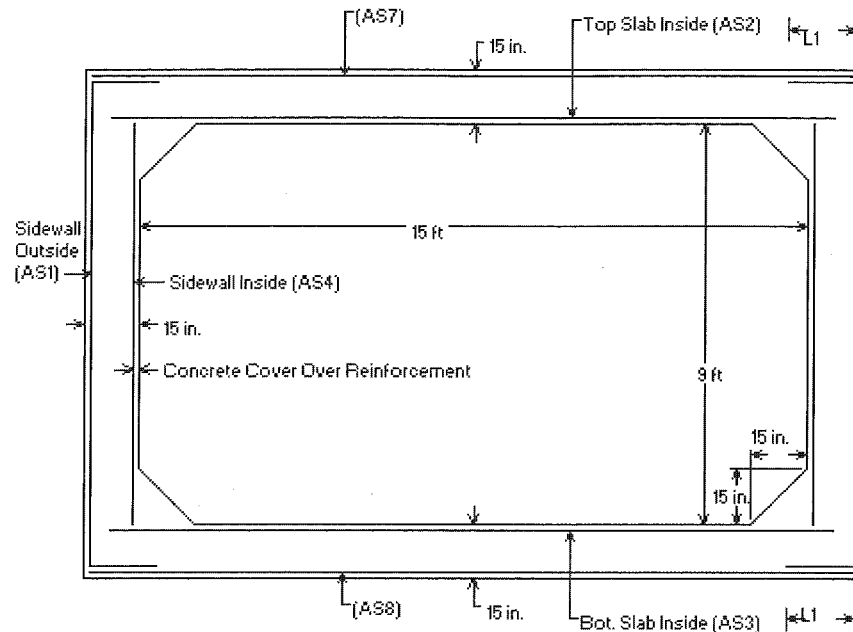
DRAWING: K. CARDWELL

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		

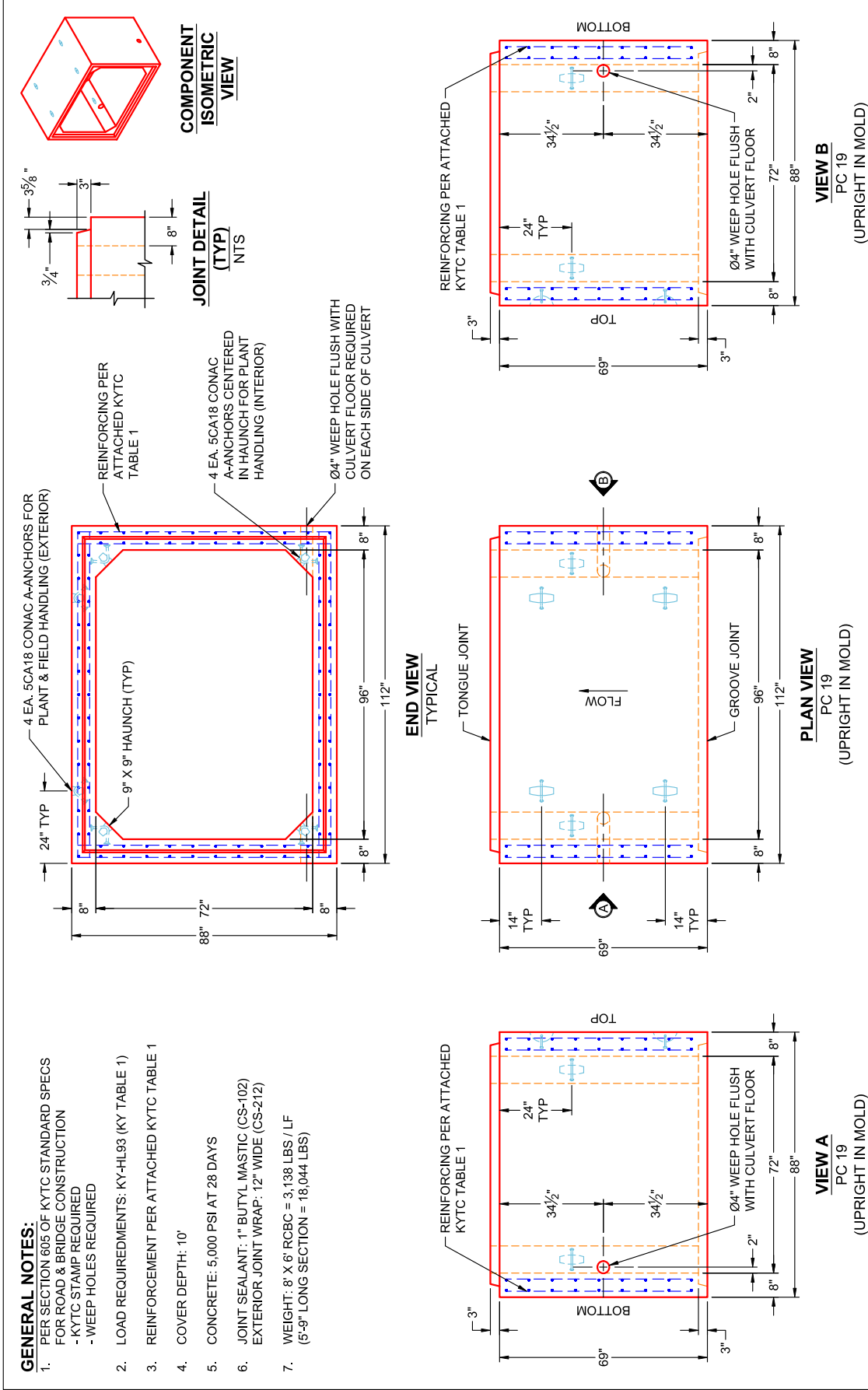
*top slab 7.5", bottom slab 6"

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		

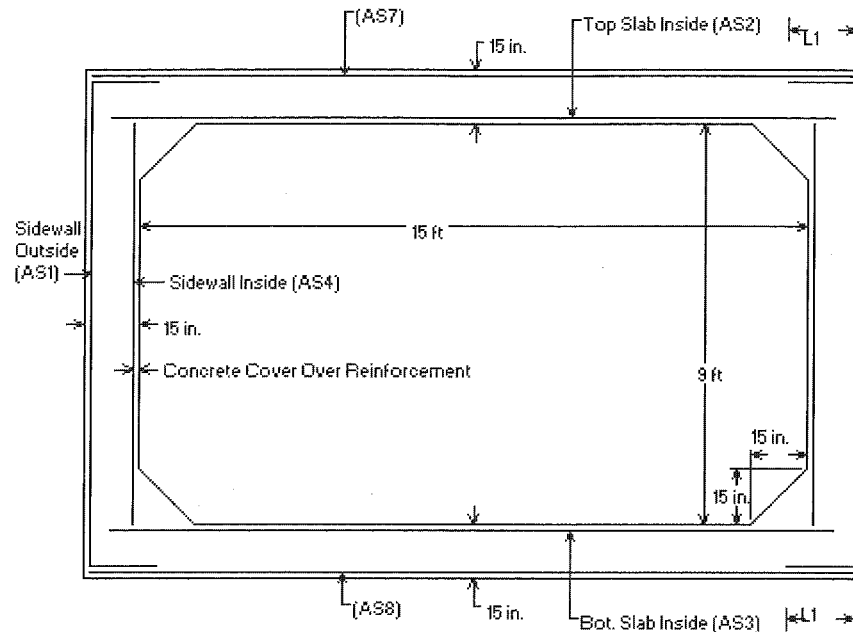
*top slab 7.5", bottom slab 6"

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"



PRODUCTION WORK ORDER		PRODUCT I.D.: BC096072-08WLF-9H	DESCRIPTION: 96" X 72" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)
	QUALITY CONTROL CHECKLIST		CUSTOMER: JIM SMITH CONTRACTING
	☐ ALL DIMENSIONS CORRECT.		PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)
	☐ LIFTERS INSTALLED INSIDE.		STRUCTURE: ST. 43+62 (PC 19)
	☐ RECESS WITH HAUNCHES CORRECT.		ORDER NO: 24-1643B
	☐ REINFORCING CORRECT.		PE: J.H. ROSS
☐ SURFACE QUALITY ACCEPTABLE.		TOP SECTION JOINT: TONGUE	DRAWING: K. CARDWELL
☐ LIFTERS INSTALLED OUTSIDE.		BASE SECTION JOINT: GROOVE	SCALE: NTS
☐ PRODUCT SQUARE.		QC CHECK INITIALS:	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

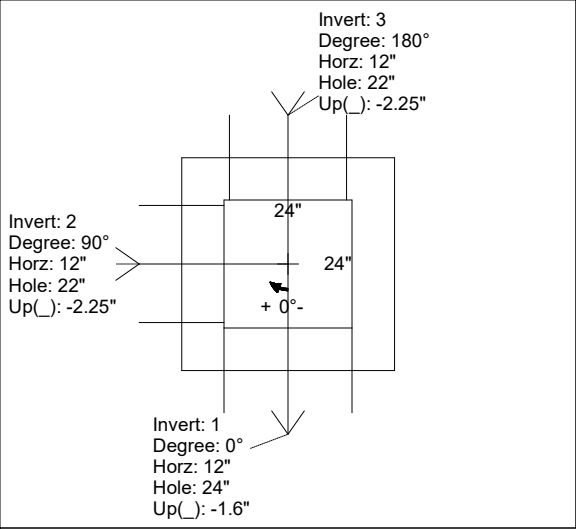
Precast Culvert KYHL-93 Design Table

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x6x8	0<2	0.267	0.536	0.382	0.192	0.192	0.192	0.192	0.192
	2<3	0.266	0.458	0.382	0.192	0.192	0.192	0.192	0.192
	3-5	0.237	0.392	0.359	0.192	0.192	0.192		
	10	0.244	0.365	0.38	0.192	0.192	0.192		
	15	0.321	0.489	0.505	0.192	0.192	0.192		
	20	0.408	0.627	0.644	0.192	0.192	0.192		
	25	0.502	0.774	0.791	0.192	0.192	0.192		
	30	0.602	0.928	0.946	0.192	0.192	0.192		
	35	0.708	1.089	1.108	0.192	0.192	0.192		

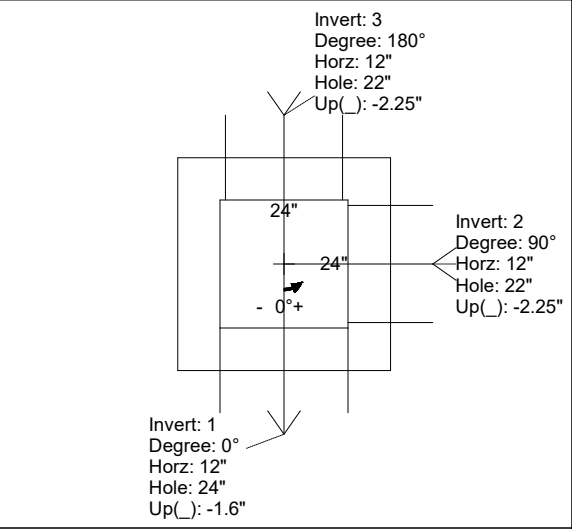
Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x7x8	0<2	0.245	0.557	0.403	0.192	0.192	0.192	0.197	0.192
	2<3	0.243	0.479	0.403	0.192	0.192	0.192	0.192	0.192
	3-5	0.215	0.409	0.378	0.192	0.192	0.192		
	10	0.225	0.378	0.396	0.192	0.192	0.192		
	15	0.295	0.507	0.526	0.192	0.192	0.192		
	20	0.374	0.651	0.671	0.192	0.192	0.192		
	25	0.459	0.804	0.825	0.192	0.192	0.192		
	30	0.549	0.965	0.987	0.192	0.192	0.192		
	35	0.644	1.134	1.157	0.192	0.192	0.192		

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x8x8	0<2	0.226	0.575	0.42	0.192	0.192	0.192	0.203	0.192
	2<3	0.224	0.494	0.42	0.192	0.192	0.192	0.192	0.192
	3-5	0.201	0.423	0.393	0.192	0.192	0.192		
	10	0.211	0.386	0.407	0.192	0.192	0.192		
	15	0.276	0.518	0.54	0.192	0.192	0.192		
	20	0.349	0.665	0.688	0.192	0.192	0.192		
	25	0.427	0.822	0.846	0.192	0.192	0.192		
	30	0.51	0.988	1.013	0.192	0.192	0.192		

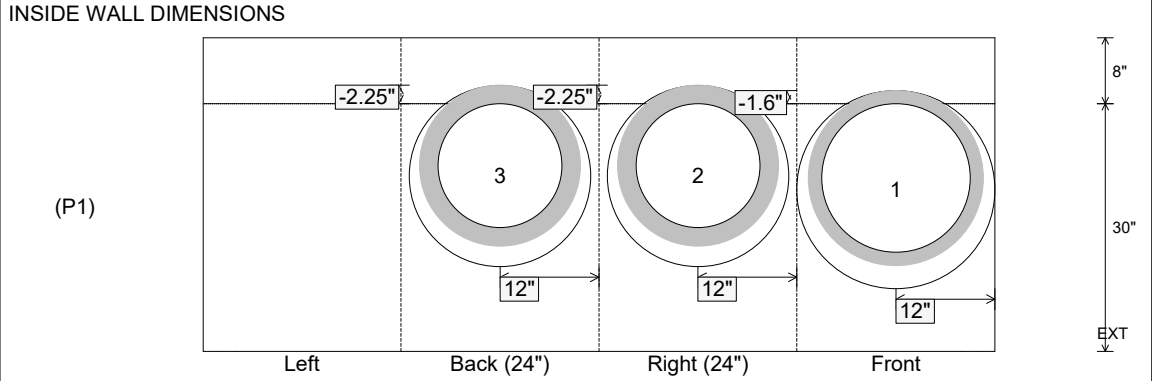
Job Name: 23-2309 - Richland Estates Subdivision Job Location: Portland, TN Contractor: Core & Main LP (BG)					Plant: 100 6/30/2026 8:52:16 AM		Tech: J. Horsley PC: T. Lewis				
Structure ID: 20 ST-SCI											
P1 BX2424-08BA30 BOX BASE 8inW, 8inF											
P2) 24" x 24" - CASTING HEIGHT - 6" P1) 24" x 24" - BOX BASE 8inW, 8inF - 30" 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 24 2) Hole - 22 Structure Total: 2914 lb						Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY OTHERS (NEENAH R-3501 TR/TL). 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: 808.64' Rim to Invert: 3.14' Slack: 1.68" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	805.5'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.6"	0"	
Invert 2	805.5'	90°	20"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"	
Invert 3	805.5'	180°	20"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



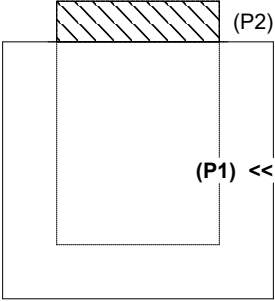
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

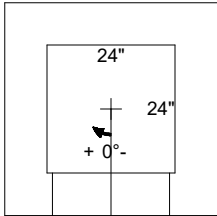
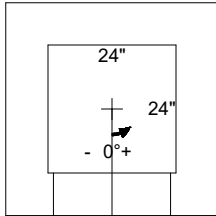
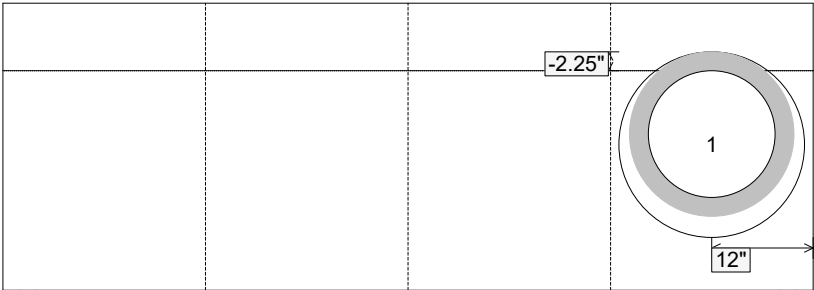


INSIDE WALL DIMENSIONS



(P1) << (P2)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 2914 lb Volume (Net): 0.74cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 23-2309 - Richland Estates Subdivision					Plant: 100		Tech: J. Horsley					
Job Location: Portland, TN					6/30/2026 8:52:15 AM		PC: T. Lewis					
Contractor: Core & Main LP (BG)												
Structure ID: 18 ST-SCI												
P1 BX2424-08BAVF BOX BASE 8inW, 8inF, Variable Ht												
P2) 24" x 24" - CASTING HEIGHT - 6" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht - 26" 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 22					0 lb 3053 lb 0 lb 0 lb ----- Structure Total: 3053 lb		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY OTHERS (NEENAH R-3501 TR/TL). 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: 806.18'					Rim to Invert: 2.83'		Slack: 1.96"		Sump: 0"		Step Position:	
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	803.35'	0°	20"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	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)  Invert: 1 Degree: 0° Horz: 12" Hole: 22" Up(): -2.25"  Invert: 1 Degree: 0° Horz: 12" Hole: 22" Up(): -2.25"												
INSIDE WALL DIMENSIONS  LeftBack (24")Right (24")Front 12"26"8"EXT												
Coating (Int): Coating (Ext):			Seam Up: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 26" Height (Ext): 34"		Weight (Net): 3053 lb Volume (Net): 0.78cu.yd			

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320)

Job Location: Independence, KY

Contractor: Eaton Asphalt

Plant: 100

6/4/2026 4:52:00 PM

Tech: Jared - A

PC: J. Jarvis

Structure ID: 517

P1 BX2436-08BA60

BOX BASE 8inW, 8inF T/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" - BOX RISER 8inW, Variable Ht T/G - 19"

P1) 24" x 36" - BOX BASE 8inW, 8inF T/n - 60"

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"

3) Hole - 24

1) Hole - 20

2) Hole - 8

3398 lb

5270 lb

1871 lb

6548 lb

206 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 17293 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: 837.19'

Rim to Invert: 8.96'

Slack: 0.52"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	828.23'	90°	26"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"
Invert 2	828.23'	180°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"
Invert 3	828.23'	270°	26"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"
Invert 4	828.23'	0°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	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): 60"

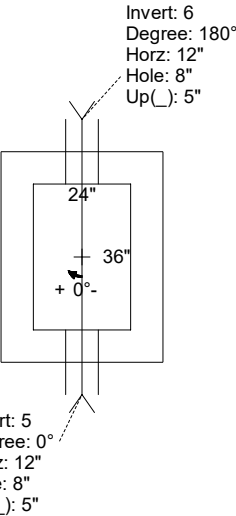
Height (Ext): 68"

Weight (Net): 6548 lb

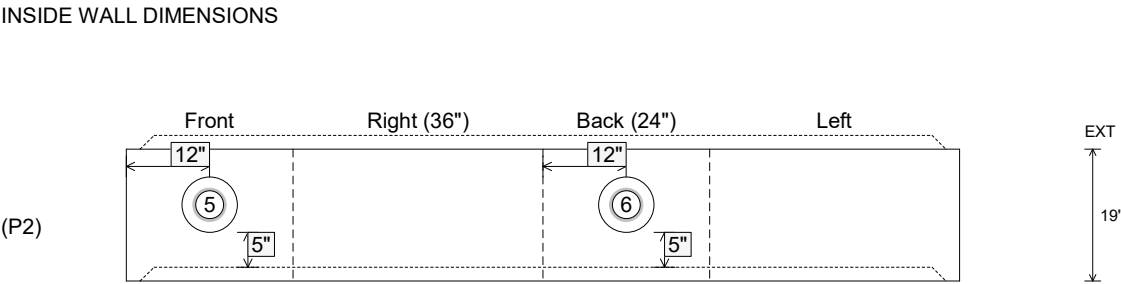
Volume (Net): 1.67cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt				Plant: 100 6/4/2026 4:54:16 PM		Tech: Jared - A PC: J. Jarvis						
Structure ID: 517												
P2 BX2436-08R-VH				BOX RISER 8inW, Variable Ht T/G								
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" - BOX RISER 8inW, Variable Ht T/G - 19" P1) 24" x 36" - BOX BASE 8inW, 8inF T/n - 60" 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" 3) Hole - 24 1) Hole - 20 2) Hole - 8						3398 lb 5270 lb 1871 lb 6548 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 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 STEPS 5. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP				
Rim: 837.19' Rim to Invert: 8.96' Slack: 0.52" 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	833.98'	0°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	5"	0"		
Invert 6	833.98'	180°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	5"	0"		
Invert 7												
Invert 8												

RIGHT-SIDE UP VIEW (int. dimensions)



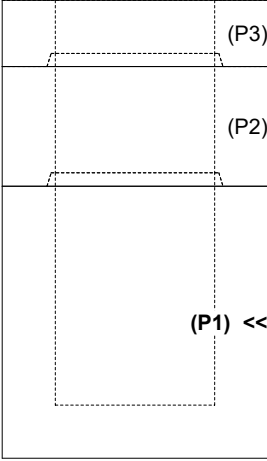
INSIDE WALL DIMENSIONS



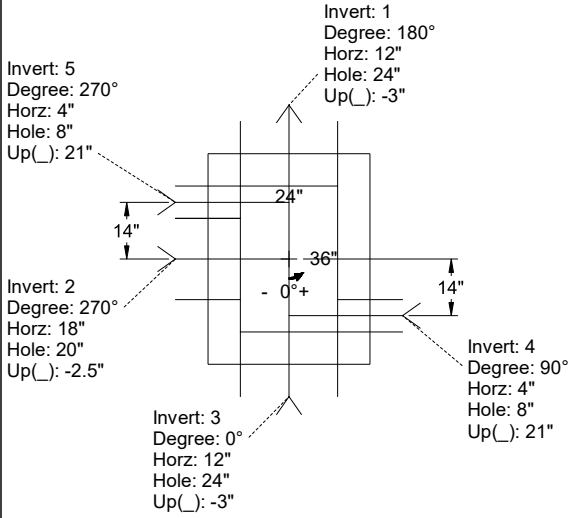
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 19" Height (Ext): 19"	Weight (Net): 1871 lb Volume (Net): 0.48cu.yd
----------------------------------	------------------------------------	--	--	--

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100 6/5/2026 10:47:35 AM		Tech: Jared - A PC: J. Jarvis				
Structure ID: 516											
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 - 33" 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 1) Hole - 20 2) Hole - 8					3398 lb 5270 lb 4165 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 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 7. INVERTS 4 & 5 OFFSET 14" FROM CENTER OF WALL				
Rim: 842.01' Rim to Invert: 5.09' Slack: 0.08" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	836.92'	180°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"	
Invert 2	836.92'	270°	26"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"	
Invert 3	836.92'	0°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"	
Invert 4	838.84'	90°	12"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21"	-14"	
Invert 5	838.84'	270°	12"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21"	-14"	
Invert 6											
Invert 7											
Invert 8											

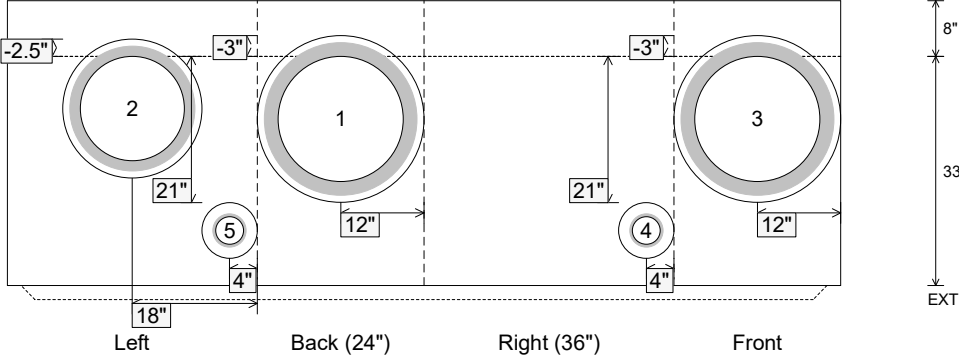
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

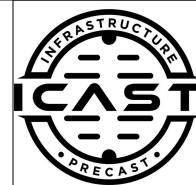


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 33" Height (Ext): 41"	Weight (Net): 4165 lb Volume (Net): 1.06cu.yd
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Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 8:23:02 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: CB-27

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 - 47"
1) CASTING - JBS-3123 MODIFIED SET
1) 32" x 32" - Conseal CS-102 1.00"
1) Hole - 32
1) 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.

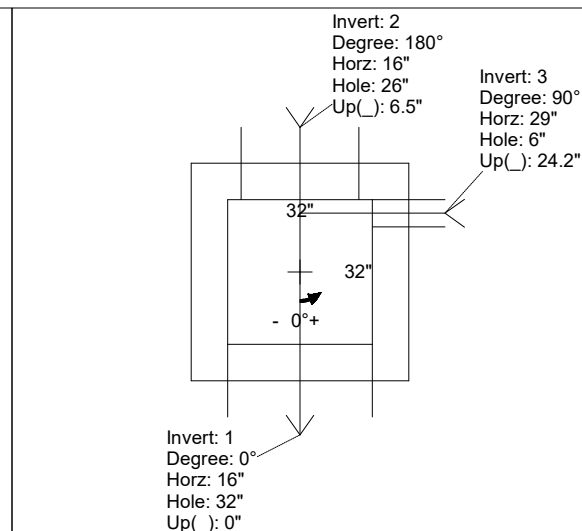
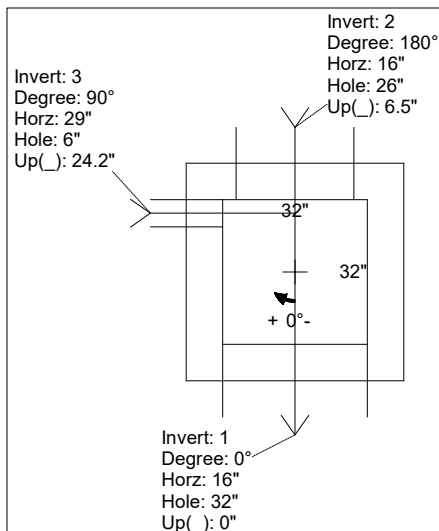
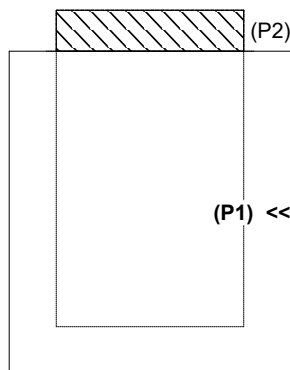
Structure Total: 6069 lb

Rim: 804.91' Rim to Invert: 4.3' Slack: 0.6" Sump: 3" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	800.61'	0°	24"	24" RCP B WALL	30"	Hole 32	32"	32"	0"	0"
Invert 2	801.11'	180°	24"	18" RCP B WALL	23"	Hole 26	26"	26"	6.5"	0"
Invert 3	802.41'	90°	37"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	24.2"	13"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

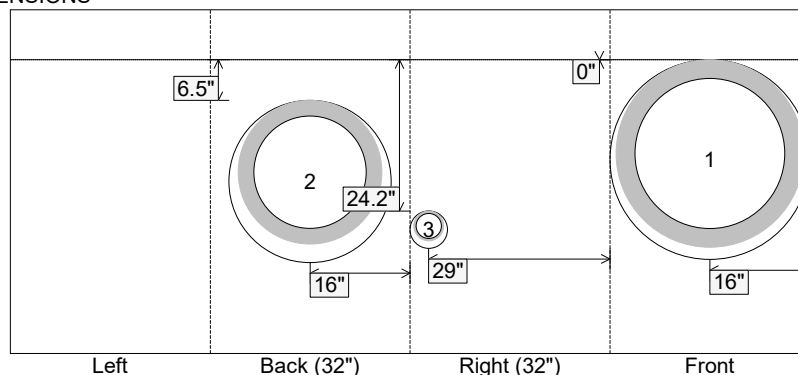
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

(P1)



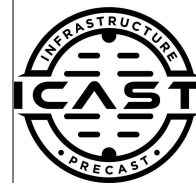
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

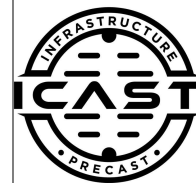
Wall Thickness: 8"
Floor Height: 8"

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

Weight (Net): 5819 lb
Volume (Net): 1.49cu.yd

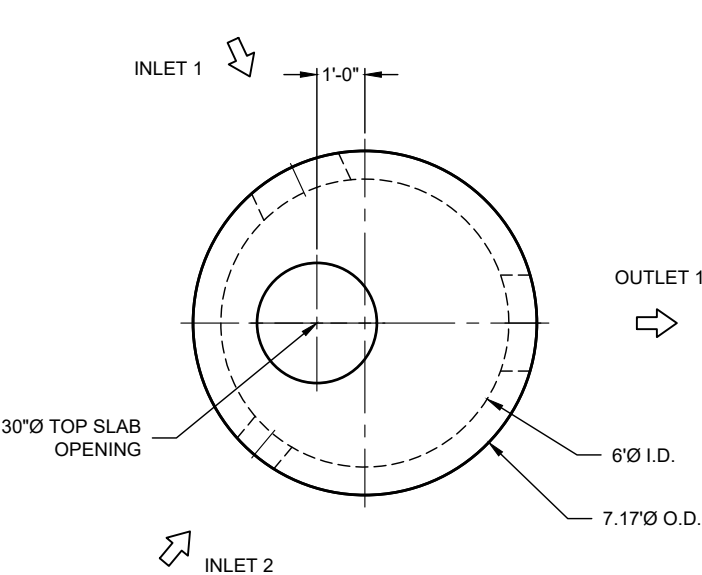


Weight (Net): 3825 lb
Volume (Net): 0.98cu.yd

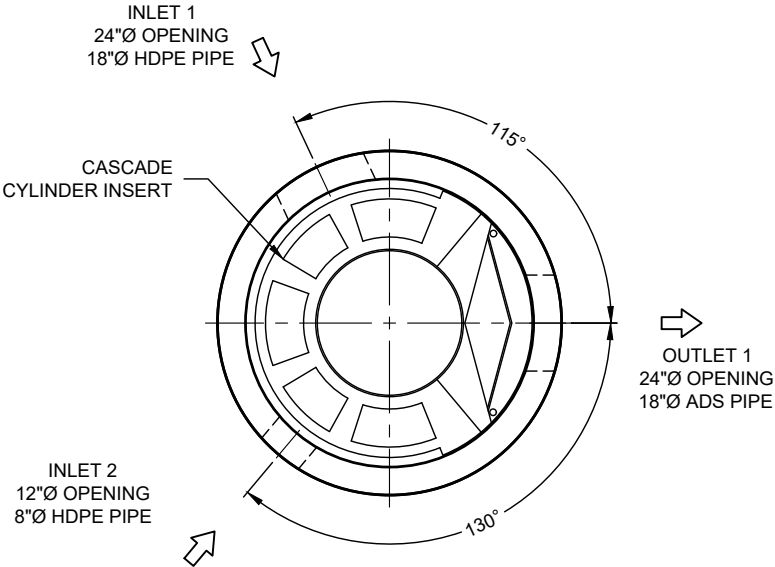


Weight (Net): 3825 lb
Volume (Net): 0.98cu.yd

Weight (Net): 1421 lb
Volume (Net): 0.36cu.yd

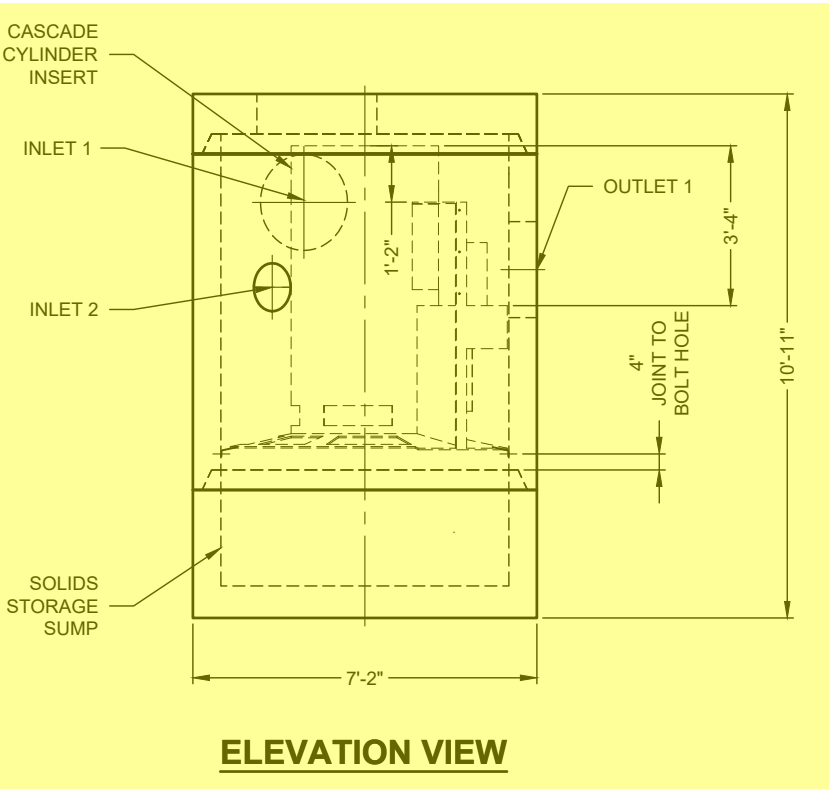


PLAN VIEW
INTERNALS NOT SHOWN

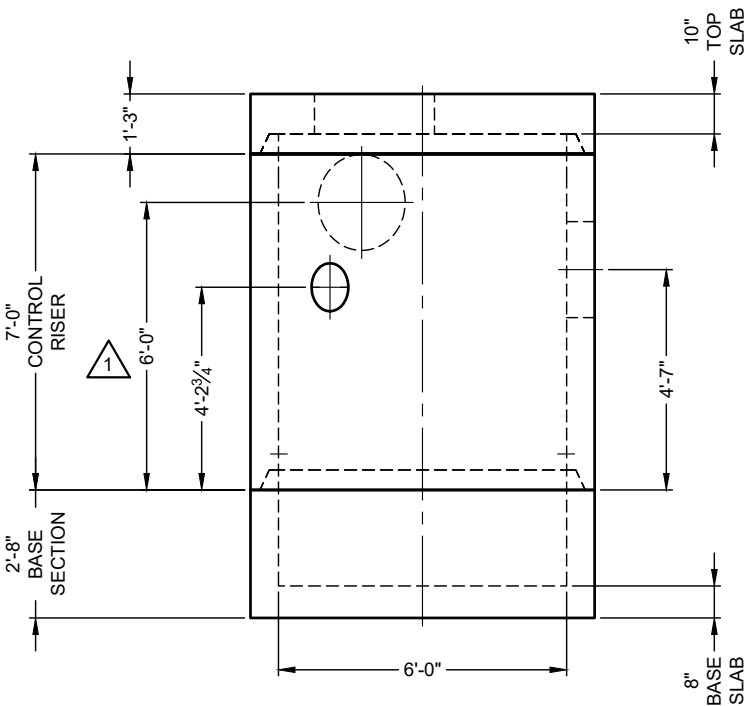


PLAN VIEW FOR PIPE ORIENTATION
TOP SLAB NOT SHOWN

SEE INSTALLATION NOTE A



ELEVATION VIEW



PRECAST COMPONENTS
INTERNALS NOT SHOWN

ICAST
5888 / 757440
LAYOUT 1A
12.44TS

CONTECH
FABRICATION
DRAWING

MATERIAL LIST

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-6 CYLINDER INSERT, STD.	325-003951	CONTECH	PRECASTER
5	CS-6 ALUMINUM INSTALLATION BRACKETS	325-003956	CONTECH	PRECASTER
1	CS-6 HARDWARE KIT	325-003965	CONTECH	PRECASTER
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
1	30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV.	325-000332	CONTECH	CONTRACTOR

GENERAL NOTES

- DESIGN LOADING - AASHTO HS-20
- ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
- JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
- GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
- MANUFACTURING TOLERANCE = +/- 1/2-INCH
- SOME HIDDEN LINES MAY BE OMITTED FOR CLARITY

INSTALLATION NOTES

- PRECASTER TO SHIP ACCESS CASTINGS WITH STRUCTURE
- REFER TO CONTECH ASSEMBLY INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- PRECASTER TO INSTALL INTERNAL COMPONENTS PRIOR TO SHIPPING UNLESS INSTRUCTED OTHERWISE BY CONTECH
- PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE
- APPLYING ALIGNMENT MARKS ON ALL PIECES OF MULTIPLE PIECE ASSEMBLIES IS ENCOURAGED
- IF STRUCTURE IS DELIVERED IN MULTIPLE SECTIONS, EACH PIECE SHALL BE LABELED WITH THE CONTECH PROJECT NUMBER, SEQUENCE NUMBER AND SITE DESIGNATION

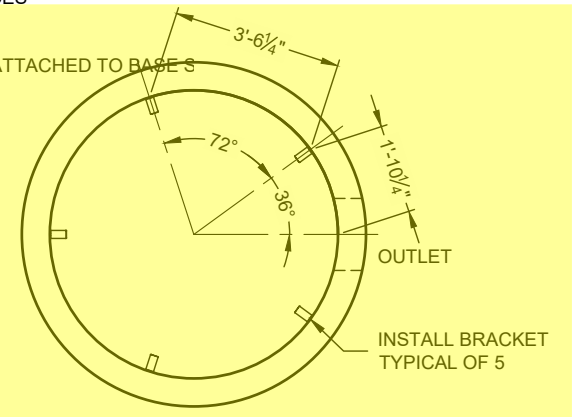
SITE INFORMATION

RIM ELEV. = 762.5+/-
TOP OF STRUCTURE = 761.41
INLET PIPE 1 INVERT ELEV. = 758.40
INLET PIPE 1 DIAMETER AND MATERIAL = 18"Ø HDPE
INLET PIPE 2 INVERT ELEV. = 757.05
INLET PIPE 2 DIAMETER AND MATERIAL = 8"Ø HDPE
OUTLET PIPE INVERT ELEV. = 757.00
OUTLET PIPE DIAMETER AND MATERIAL = 18"Ø ADS
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 750.49

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 21000 LBS.
STRUCTURE IS DELIVERED IN 2 PIECES

TOP SLAB = 5000 LBS.
CONTROL RISER = MECHANICALLY ATTACHED TO BASE S
BASE SECTION = 21000 LBS.



SUPPORT BRACKET LAYOUT PLAN VIEW

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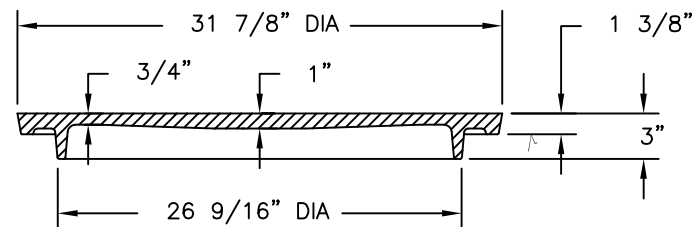
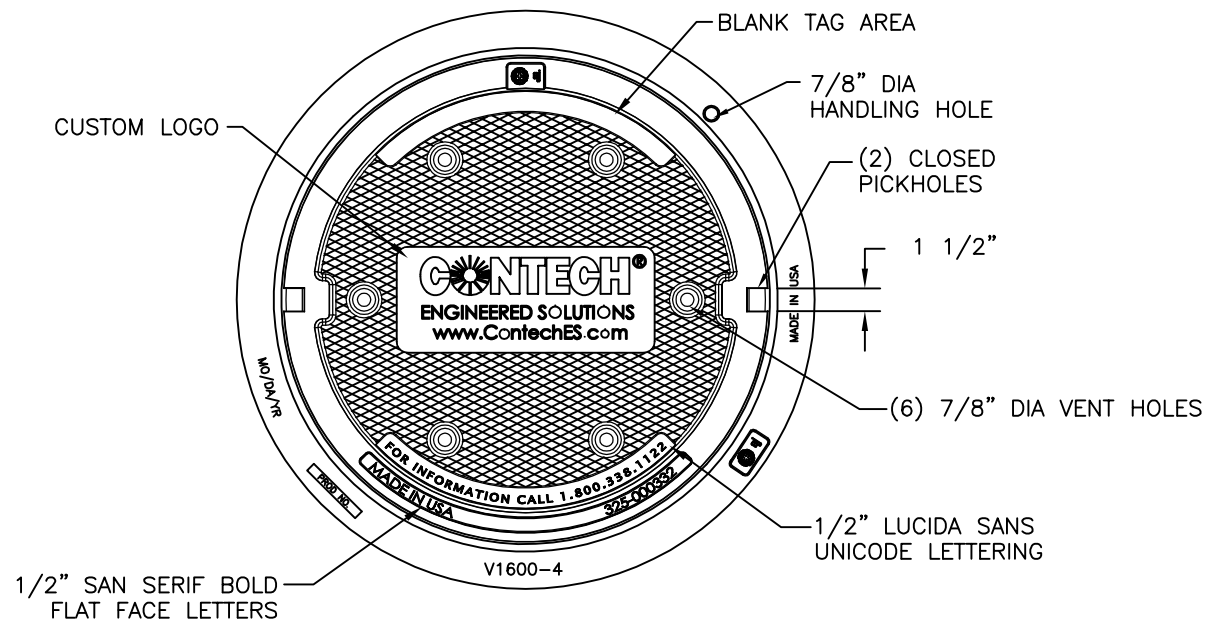
DATE	BY	REVISION DESCRIPTION
7/7/2026	MDB	PRECASTER CHANGE
1	MARK	

CS-6 - 863539-25
SOUTH OLDHAM HIGH SCHOOL
RENOVATION AND ADDITION
CRESTWOOD, KY
SITE DESIGNATION: DS-52

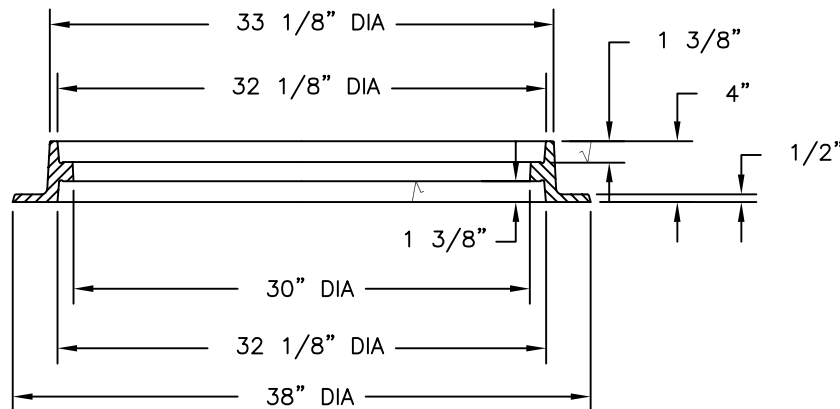
CONTECH
ENGINEERED SOLUTIONS LLC
A CONTECH COMPANY
910 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-445-7000 513-945-7893 FAX
CASCADE
separator
FOR PATENT INFORMATION, GO TO www.contech.com/IP

DATE:	4/16/2026
DESIGNED:	MDB
CHECKED:	MSB
PROJECT No.:	863539
SEQUENCE No.:	25
SHEET:	1 OF 1

1810B4 V1600-4 Assembly



COVER SECTION



FRAME SECTION

Product Number

41600483

Design Features

-Materials

Cover

Gray Iron (CL35B)

Frame

Gray Iron (CL35B)

-Design Load

Heavy Duty

-Open Area

n/a

-Coating

Undipped

-✓ Designates Machined Surface

Certification

- ASTM A48

-Country of Origin: USA

Major Components

00180783

41600410

Drawing Revision

05/09/2007 Designer: SMH

6/26/2017 Revised By: DAE

Disclaimer

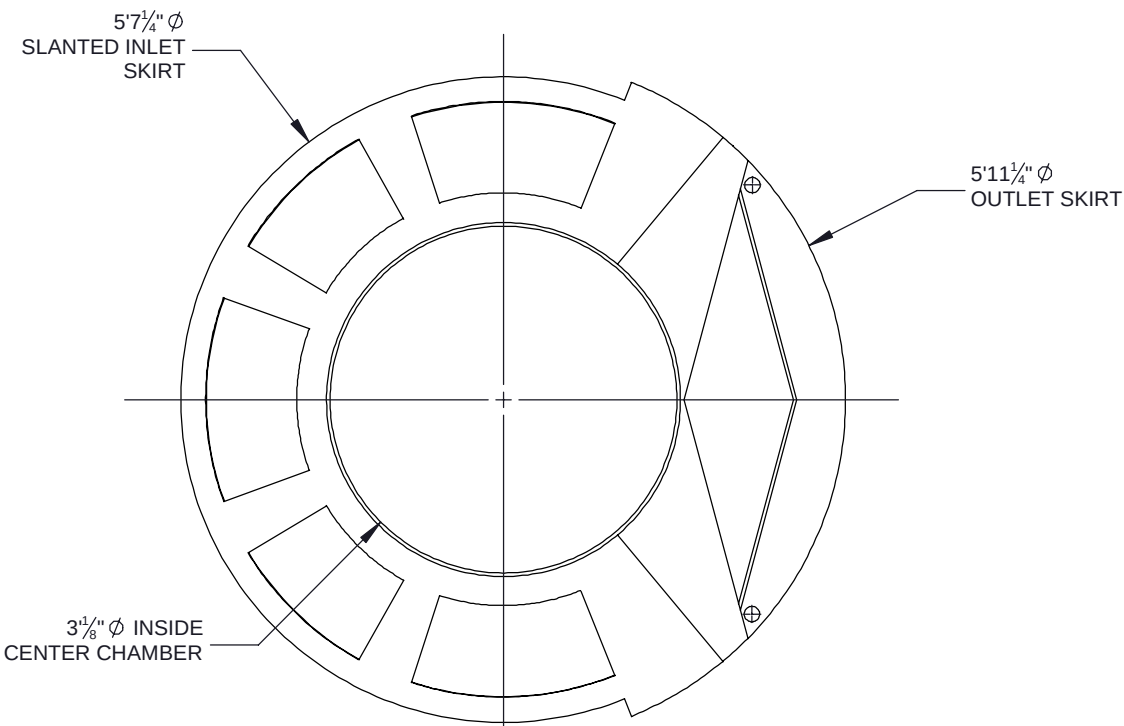
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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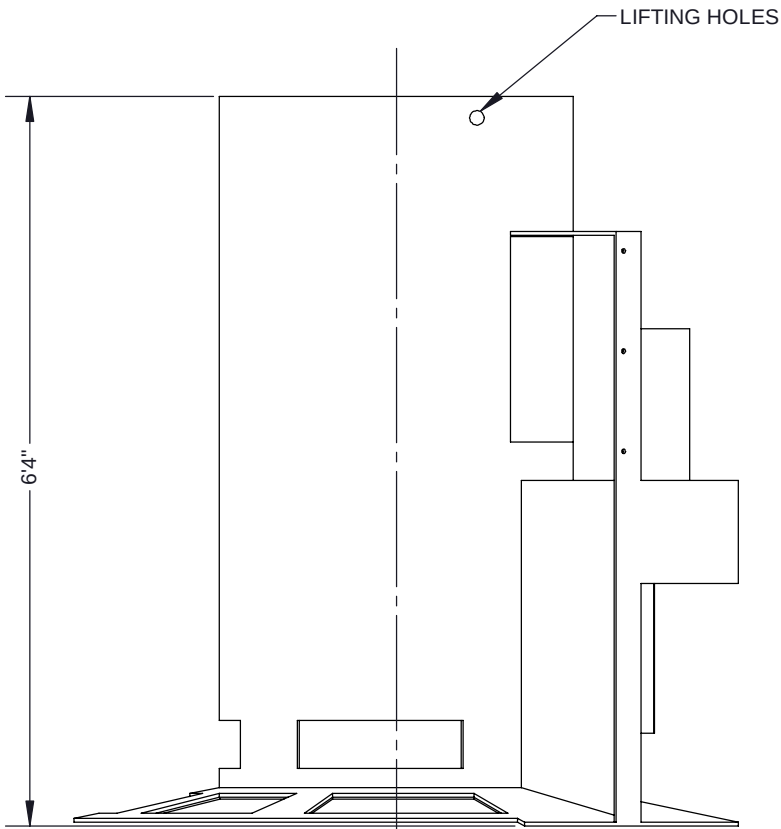
Contact

800 626 4653

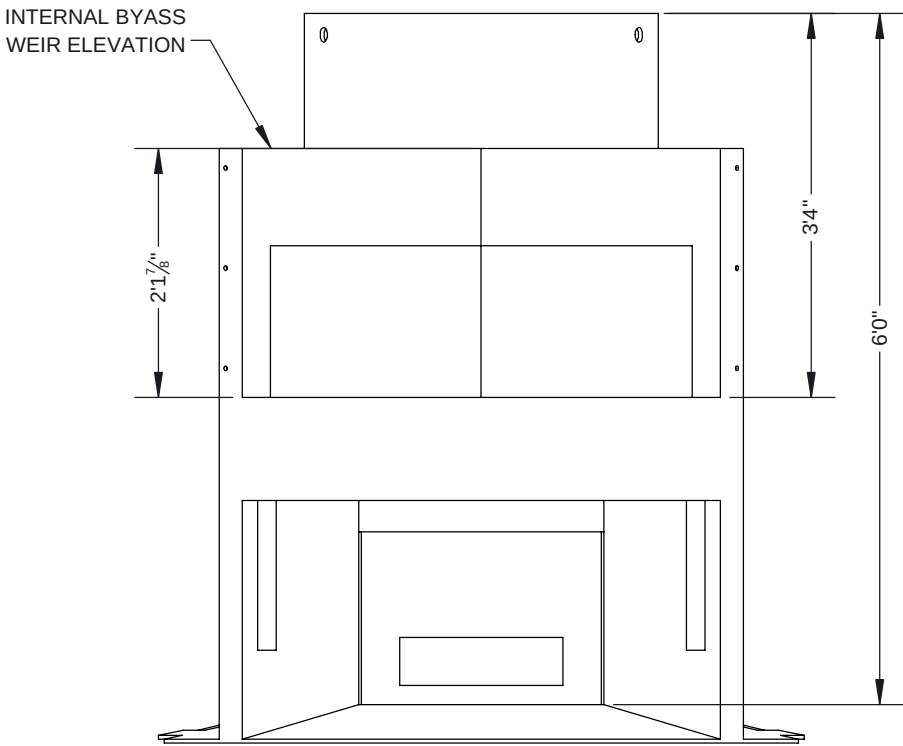
ejco.com



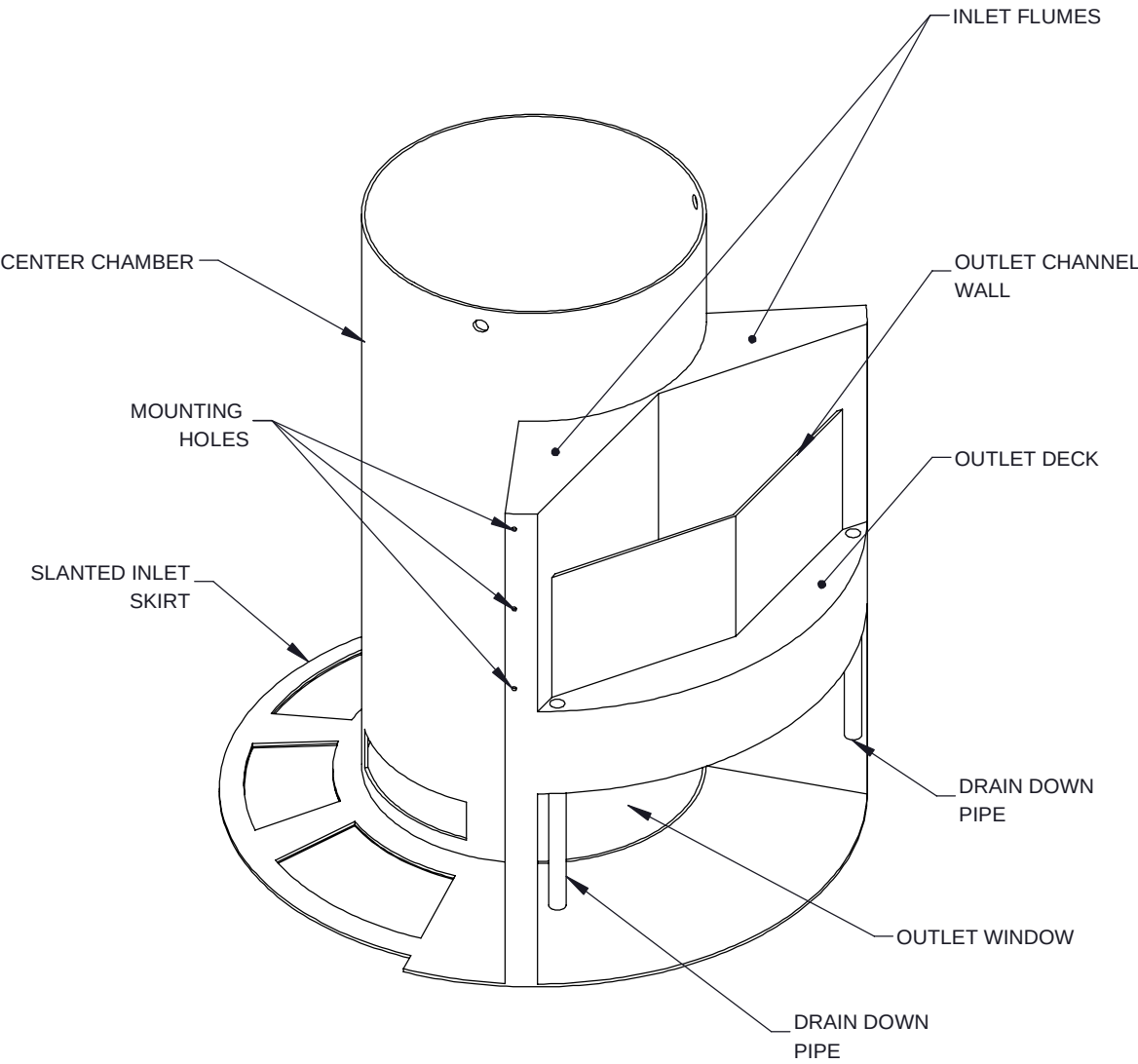
PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



ISOMETRIC VIEW

NOTES:
1. SEE CASCADE SEPARATOR INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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800-338-1122 513-645-7000 513-645-7993 FAX

REFERENCE DETAIL
INTERNALS CS-6
CASCADE SEPARATOR

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGLES ± 1 DEGREE
TWO PLACE DECIMAL ± 0.06
THREE PLACE DECIMAL ± 0.030

PART NUMBER: 325-003951		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.15	REV: B
SCALE: N/A	SHEET 1 OF 1	

Job Name: 26-3001 - Gunnison Way Grease Traps
Job Location: Bowling Green, KY 42103
Contractor: Bowling Green Winsupply

Plant: Beaver Dam, KY

Tech: K. Cardwell

7/9/2026 9:49:48 AM

PC: T. Lewis



Structure ID: GT 2

P2 BX60120-06LD08

CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F

P3) 24" - CASTING HEIGHT - 7"
P2) 60" x 120" - CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F - 8"
P1) 60" x 120" - BOX BASE 6inW, 6inF F/n - 54"
1) SECONDARY POUR - Baffle Wall
1) 60" x 120" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 8QRS-S NYLO

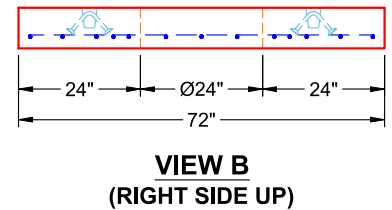
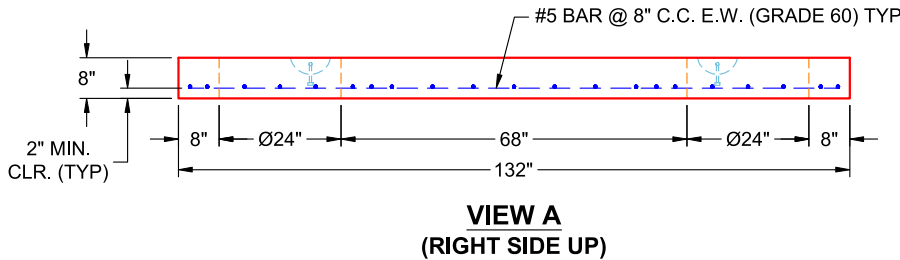
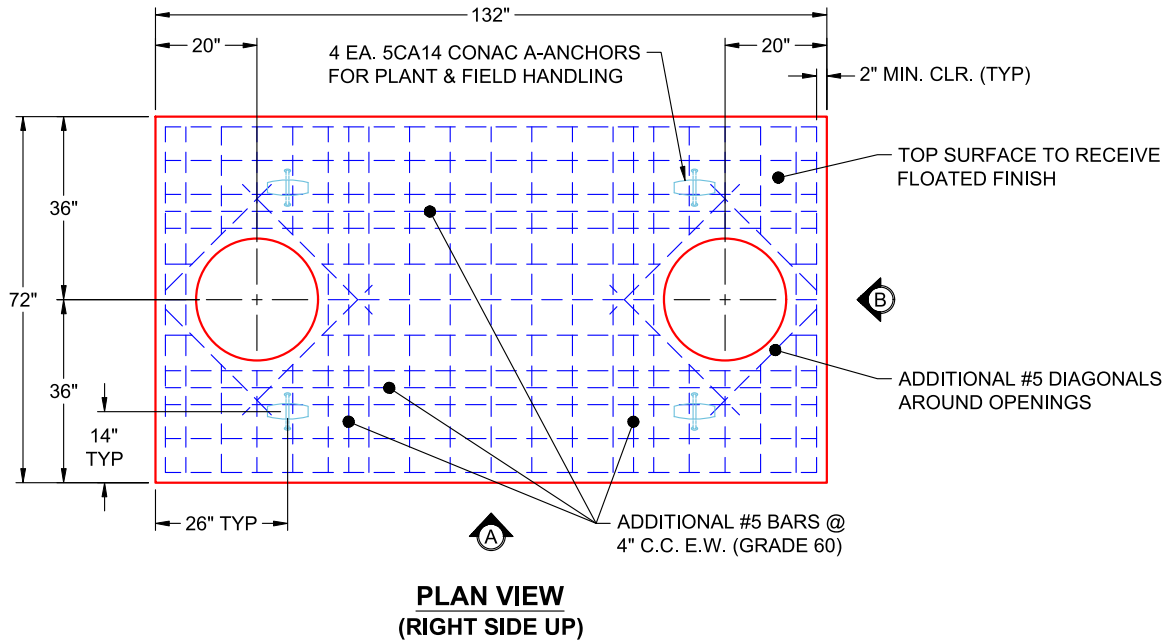
0 lb
5775 lb
16155 lb
975 lb
0 lb
0 lb
13 lb

22918 lb

Structure Total: 22918 lb

Structure Notes:

1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. 2 EA. 7" CASTINGS SUPPLIED BY OTHERS
5. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN
6. TOP SURFACE TO RECEIVE FLOATED FINISH



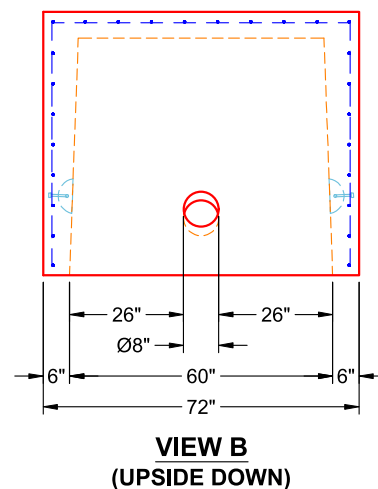
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

Weight (Net): 5775 lb
Volume (Net): 1.48cu.yd



Job Name: 26-3001 - Gunnison Way Grease Traps
Job Location: Bowling Green, KY 42103
Contractor: Bowling Green Winsupply

Plant: Beaver Dam, KY

Tech: K. Cardwell

7/9/2026 9:44:29 AM

PC: T. Lewis



Structure ID: GT 1

P1 BX60120-06W06F-BA54

BOX BASE 6inW, 6inF F/n

P3) 24" - CASTING HEIGHT - 7"
P2) 60" x 120" - CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F - 8"
P1) 60" x 120" - BOX BASE 6inW, 6inF F/n - 54"
1) SECONDARY POUR - Baffle Wall
1) 60" x 120" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 8QRS-S NYLO

0 lb
5775 lb
16155 lb
975 lb
0 lb
0 lb
13 lb

22918 lb

Structure Total:

Structure Notes:

1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR TO BAFFLE WALL POUR, ADD STRIP OF CS-231 BETWEEN BAFFLE WALL & TANK WALLS (BOTH SIDES)

FIRST POUR (BASE): 16,155 LBS

SECOND POUR (BAFFLE WALL): 975 LBS

Rim: 5.75'

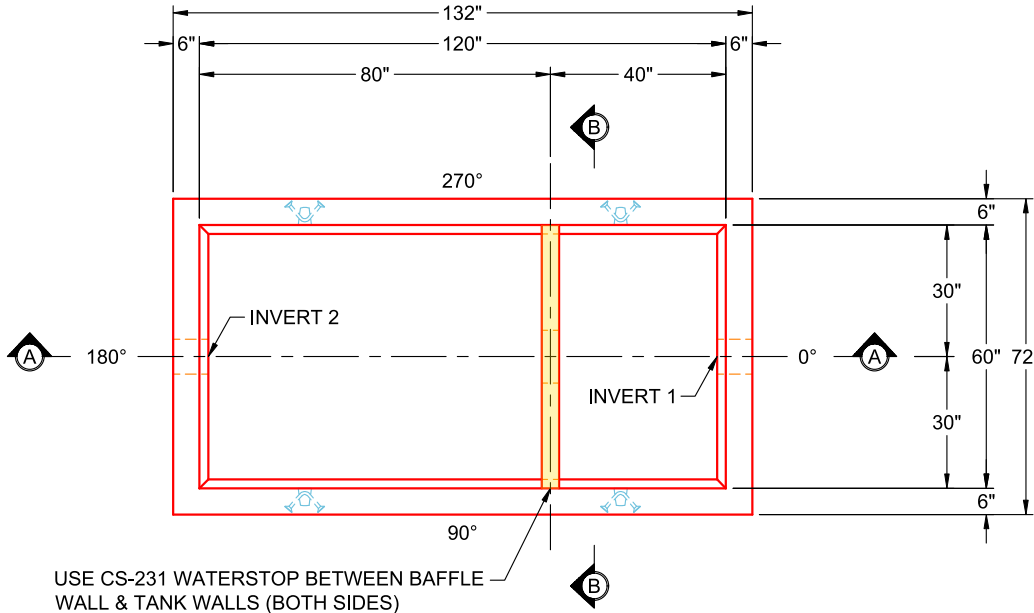
Rim to Invert: 2.667'

Slack: 0"

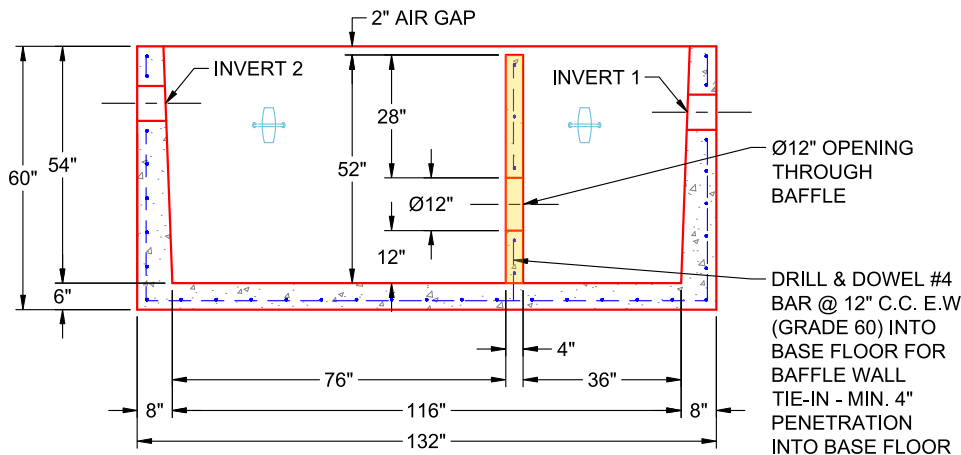
Sump: 37"

Step Position:

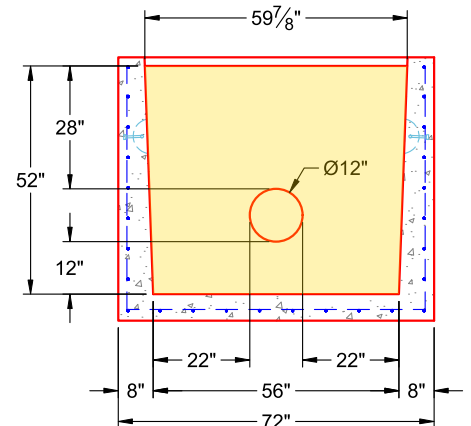
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



**PLAN VIEW
(RIGHT SIDE UP)**



**SECTION A-A
(RIGHT SIDE UP)**



**SECTION B-B
(RIGHT SIDE UP)**

Job Name: 23-2309 - Richland Estates Subdivision
Job Location: Portland, TN
Contractor: Core & Main LP (BG)

Plant: 100

6/30/2026 8:53:28 AM

Tech: J. Horsley

PC: T. Lewis



Structure ID: 05 ST-SCI

P2 BX036036-06LD08-24X24

BX FLAT LID 8inW w/24"x24" HOLE

P3) 24" x 24" - CASTING HEIGHT - 6"
P2) 36" x 36" - BX FLAT LID 8inW w/24"x24" HOLE - 6"
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 22"
1) 36" x 36" - Conseal CS-102 1.00"
1) Hole - 20
3) Hole - 22

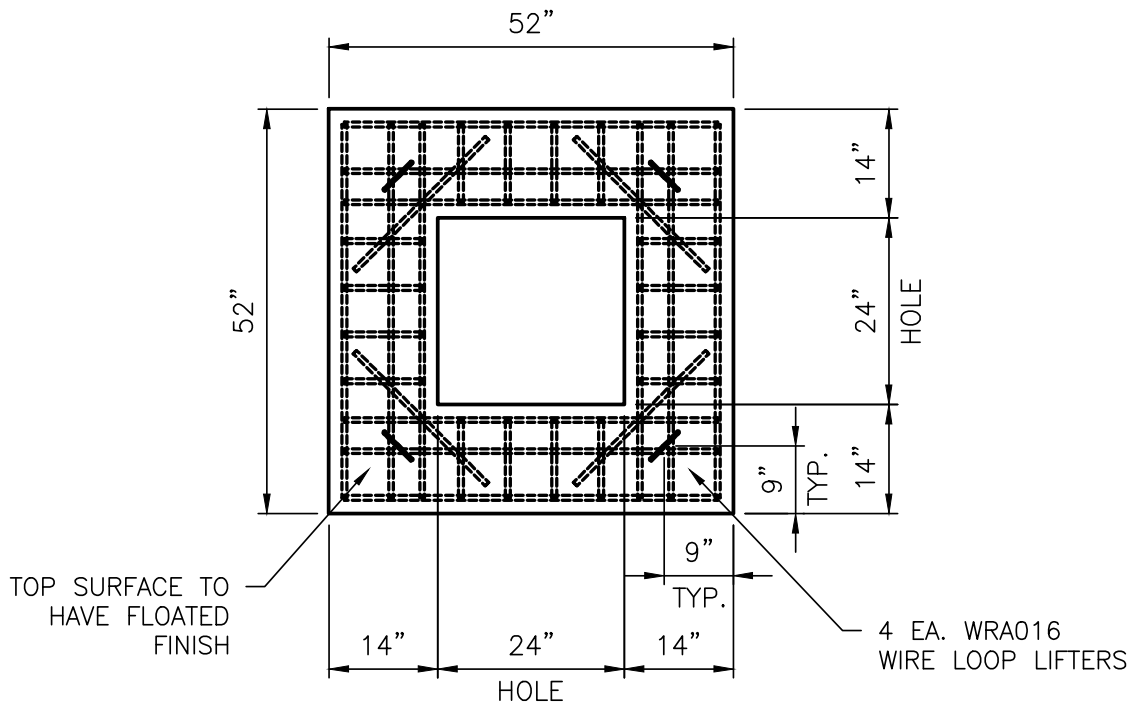
Structure Total:

0 lb
1071 lb
3316 lb
0 lb
0 lb
0 lb

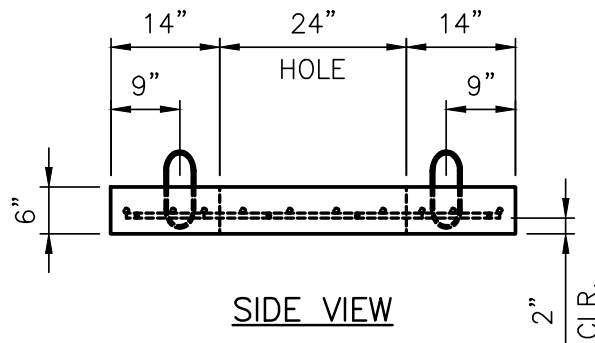
Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY OTHERS (NEENAH R-3501 TR/TL).

REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB = H20 LOADING.
- RISER (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



TOP VIEW



SIDE VIEW

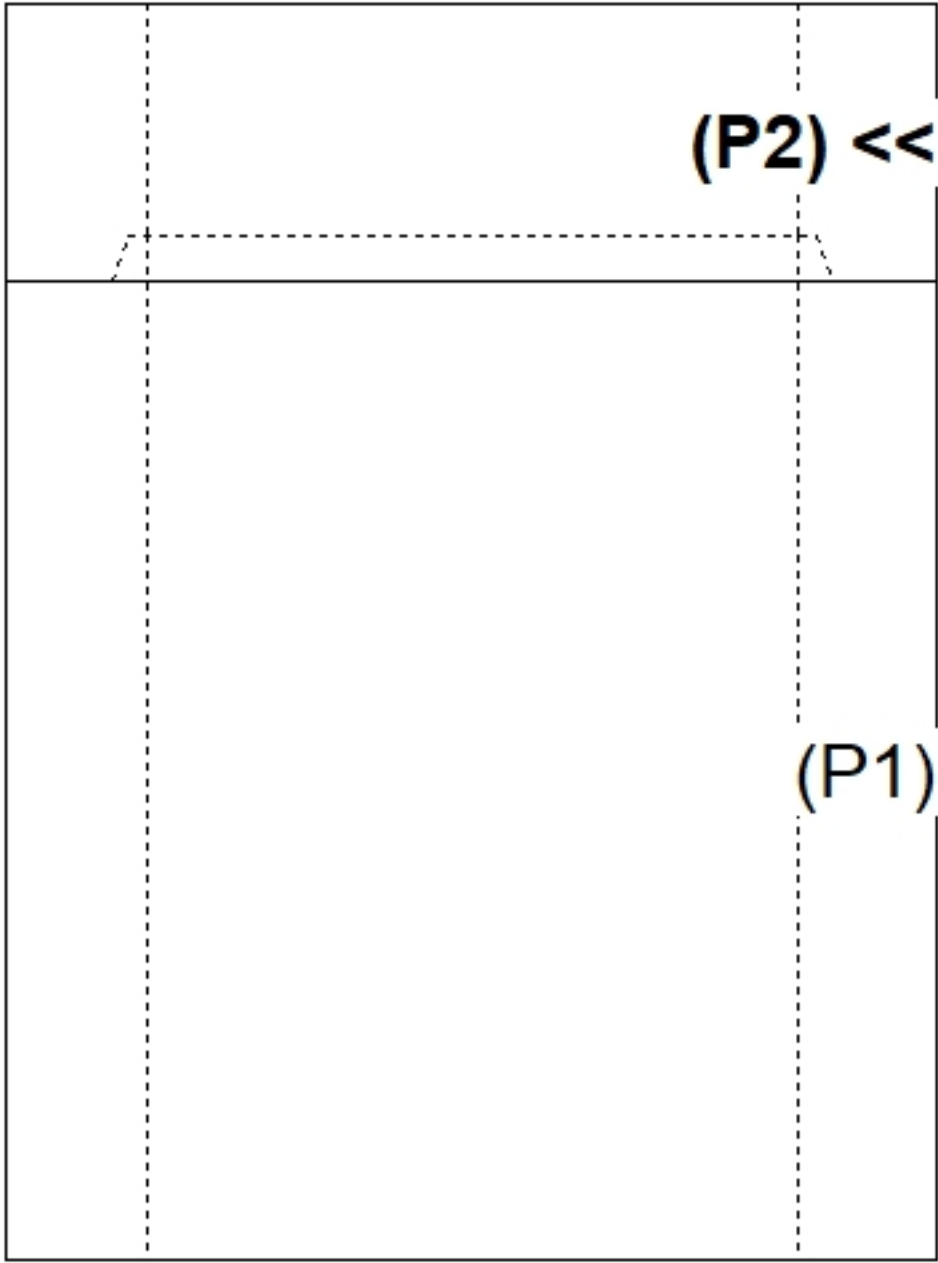
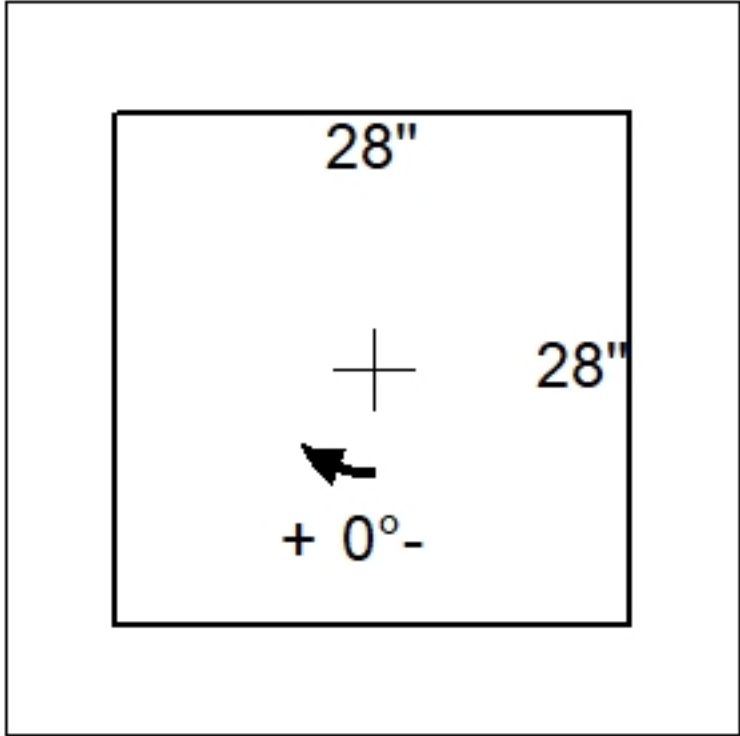
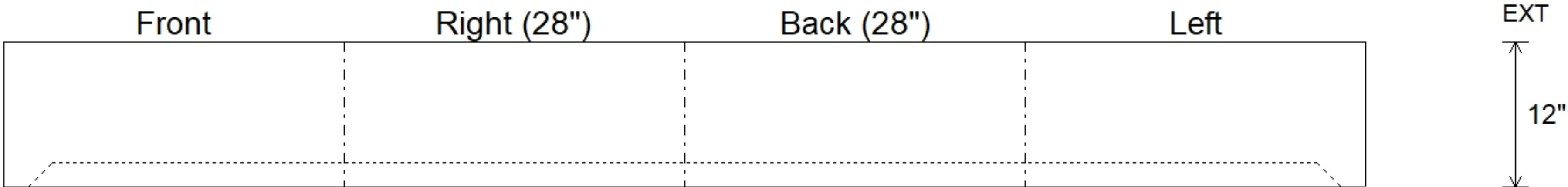
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

Weight (Net): 1071 lb
Volume (Net): 0.27cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B Job Location: Antioch, TN Contractor: Josh King Excavating					Plant: Beaver Dam 6/22/2026 8:23:31 AM		Tech: S. Felletter PC: A. Chambers				
Structure ID: D1.1 QL5											
P2		BX2828-06R12			BOX RISER 6inW F/G						
P2) 28" x 28" - BOX RISER 6inW F/G - 12" P1) 28" x 28" - BOX RISER 6inW T/F - 42"						822 lb 2876 lb ----- Structure Total: 3697 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.			
Rim: 4.5'		Rim to Invert: 0'		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											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
		INSIDE WALL DIMENSIONS									
(P2)											
		Coating (Int): Coating (Ext):		Seam Up: Flat Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 12" Height (Ext): 12"		Weight (Net): 822 lb Volume (Net): 0.21cu.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 3:12:24 PM

Tech: J. Horsley - A

PC: J. Jarvis



Structure ID: 56

P3 BX024030-08LD08-15X27

CB FLAT TOP 8"W w/15"x27" HOLE F/F

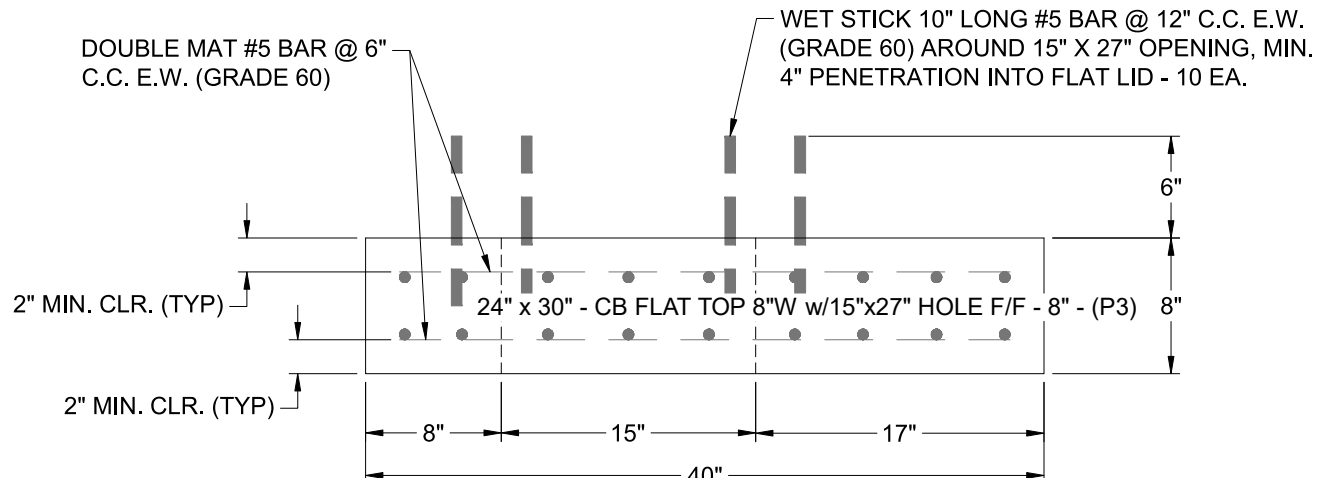
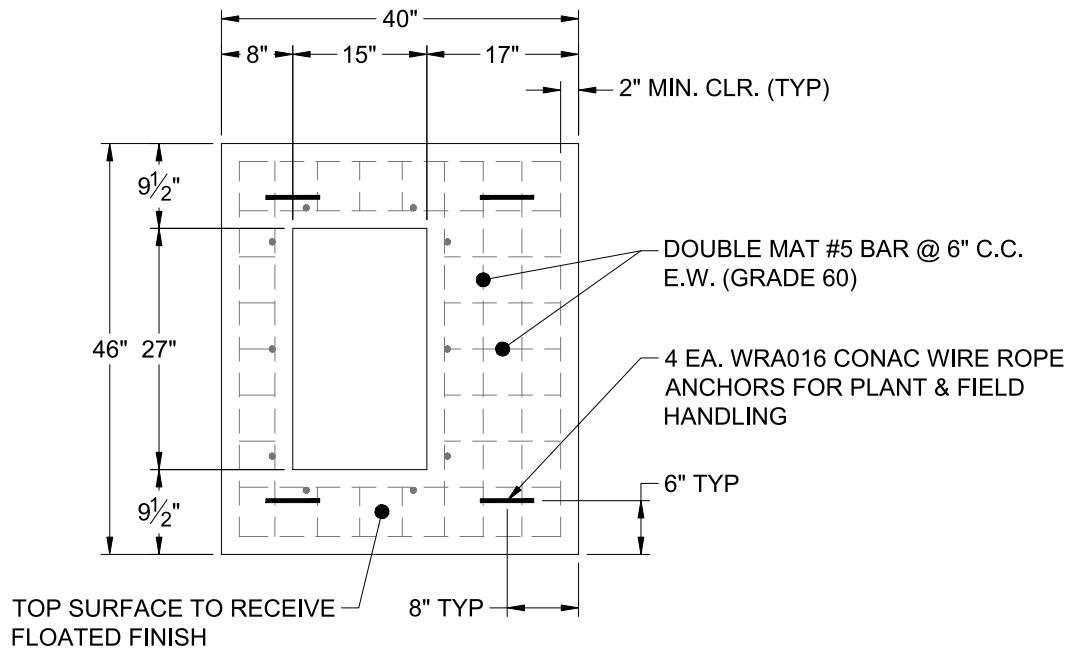
P4) 15" x 27" - P.I.P. - BY OTHERS - 8"
P3) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"
P2) 24" x 30" - BOX RISER 8inW F/G - 24"
P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht T/n - 26"
2) 24" x 30" - Conseal CS-102 1.00"
1) 15" x 27" - Conseal CS-102 1.00"
2) Hole - 24
1) Hole - 18
2) Hole - 4

Structure Total: 6254 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: DOUBLE MAT #5 BAR @ 6" 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
5. WET STICK #5 BAR @ 12" C.C. (GRADE 60) 6" OUT TOP
OF FLAT LID AROUND 15" X 27" OPENING FOR FIELD
POUR TIE-IN - 4" MIN. PENETRATION INTO FLAT LID
6. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE
ANCHORS FOR PLANT & FIELD HANDLING
7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 963 lb
Volume (Net): 0.25cu.yd

Job Name: 25-4665 - Buckhorn WTP
Job Location: Hazard, KY
Contractor: Smith Contractors, Inc.

Plant: 100

Tech: J. Horsley

4/7/2026 3:53:18 PM

PC: E. Bradley



Structure ID: SV (5)

P4 BX108108-10LD08S

BX FLAT TOP 8"W w/66"x64" HATCH F/F

- P5) 66" x 64" - HATCH (CAST FLUSH) - 3"
P4) 108" x 108" - BX FLAT TOP 8"W w/66"x64" HATCH F/F - 10"
P3) 108" x 108" - BOX RISER 8inW, Variable Ht F/G - 88"
P2) 108" x 108" - BOX RISER 8inW, Variable Ht T/F - 70"
P1) 108" x 108" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) This Structure Includes a Cast-in Item - Hatch (Supplied by Others)
3) 108" x 108" - Conseal CS-102 1.00" (Double)
2) A-Lok - 0570

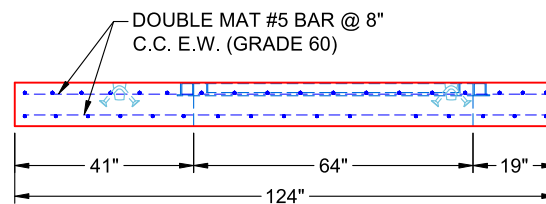
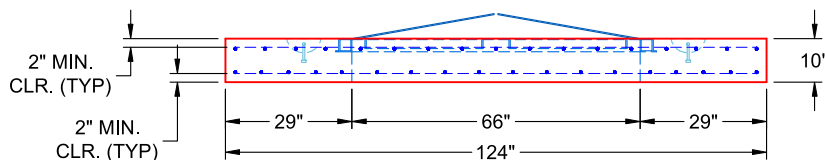
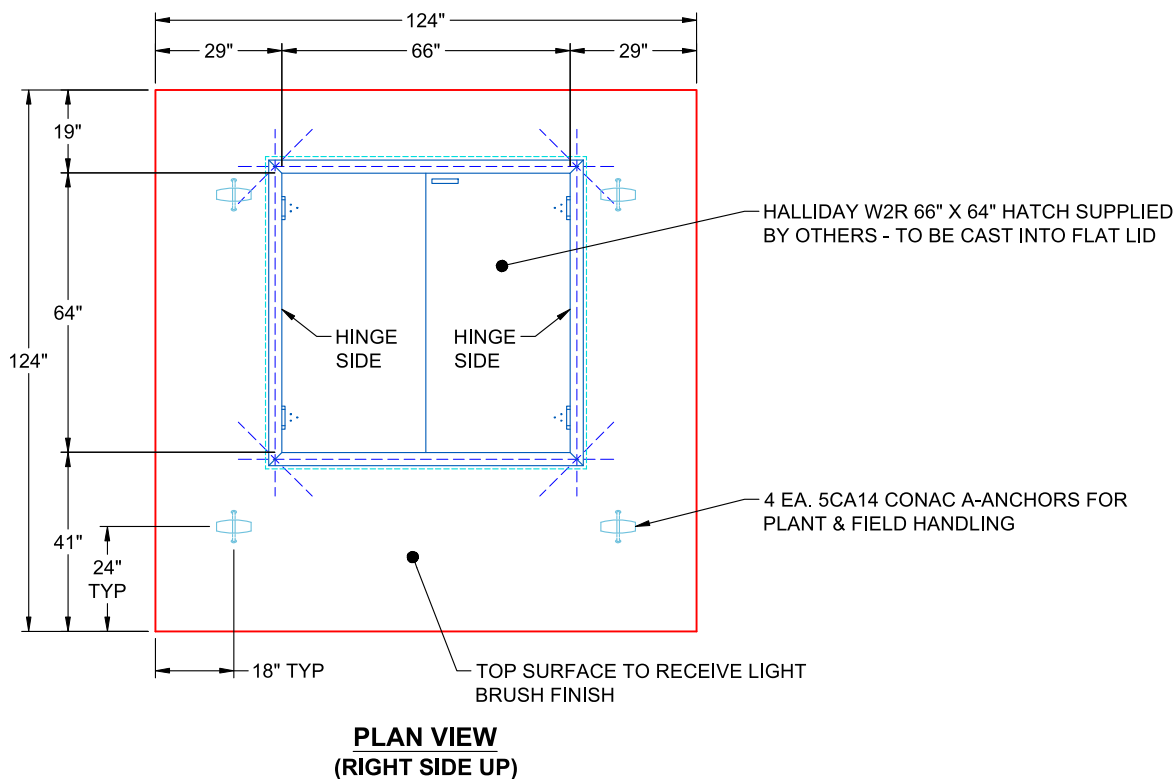
Structure Total:

0 lb
9582 lb
27410 lb
21433 lb
0 lb
0 lb
0 lb
0 lb
0 lb
2 lb

58427 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: DOUBLE MAT #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. HALLIDAY W2R 66" X 64" HATCH SUPPLIED BY OTHERS - TO BE CAST INTO FLAT LID
5. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 10"

Weight (Net): 9582 lb
Volume (Net): 2.45cu.yd

Job Number:

25-4665

Job Name:

Buckhorn WTP

Structure:

SV (5)

Note:

Halliday W2R 66" x 64" Hatch

Supplied By Others To Be Cast Into
Flat Lid