

Job Name: 25-4665 - Buckhorn WTP

Job Location: Hazard, KY

Contractor: Smith Contractors, Inc.

Plant: 100

7/14/2026 8:08:37 PM

Tech: J. Horsley

PC: E. Bradley



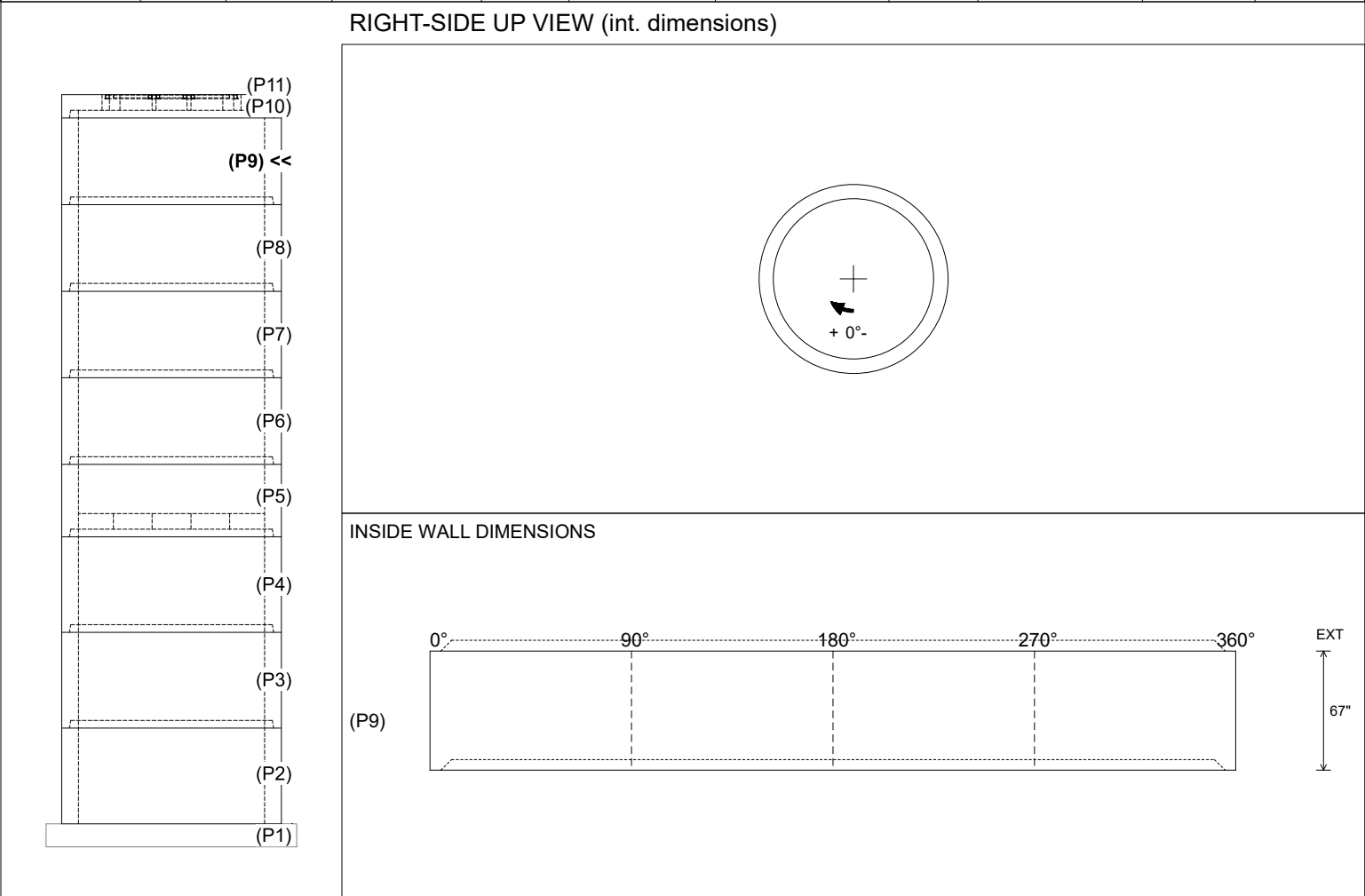
Structure ID: 54665 (4)

P9 MH144RSVF

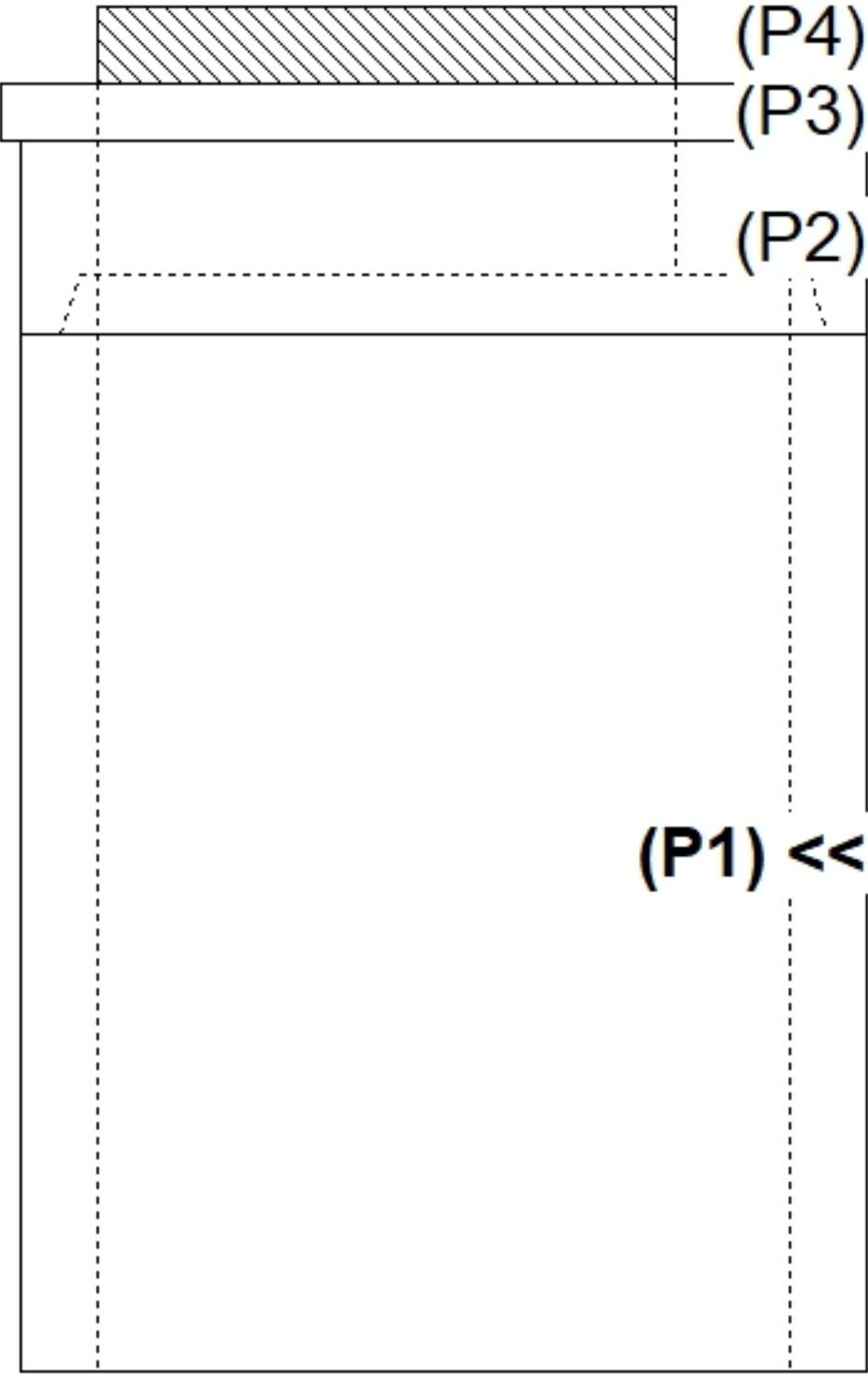
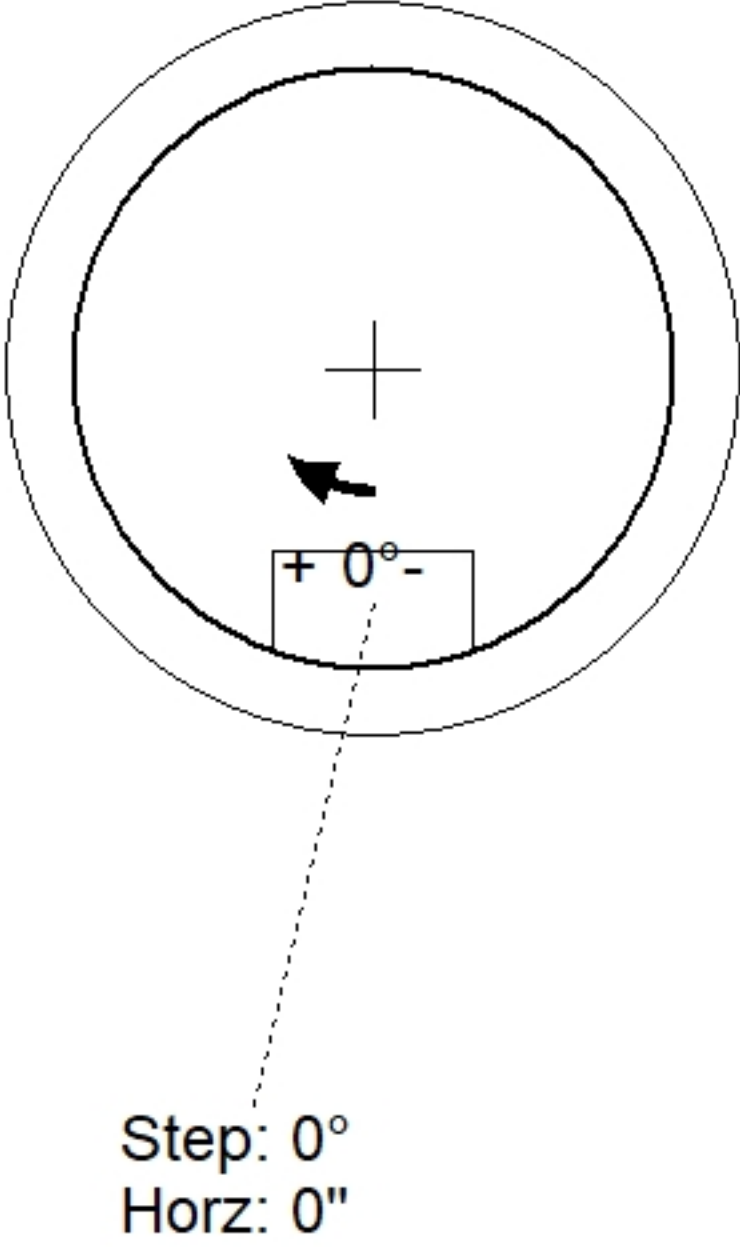
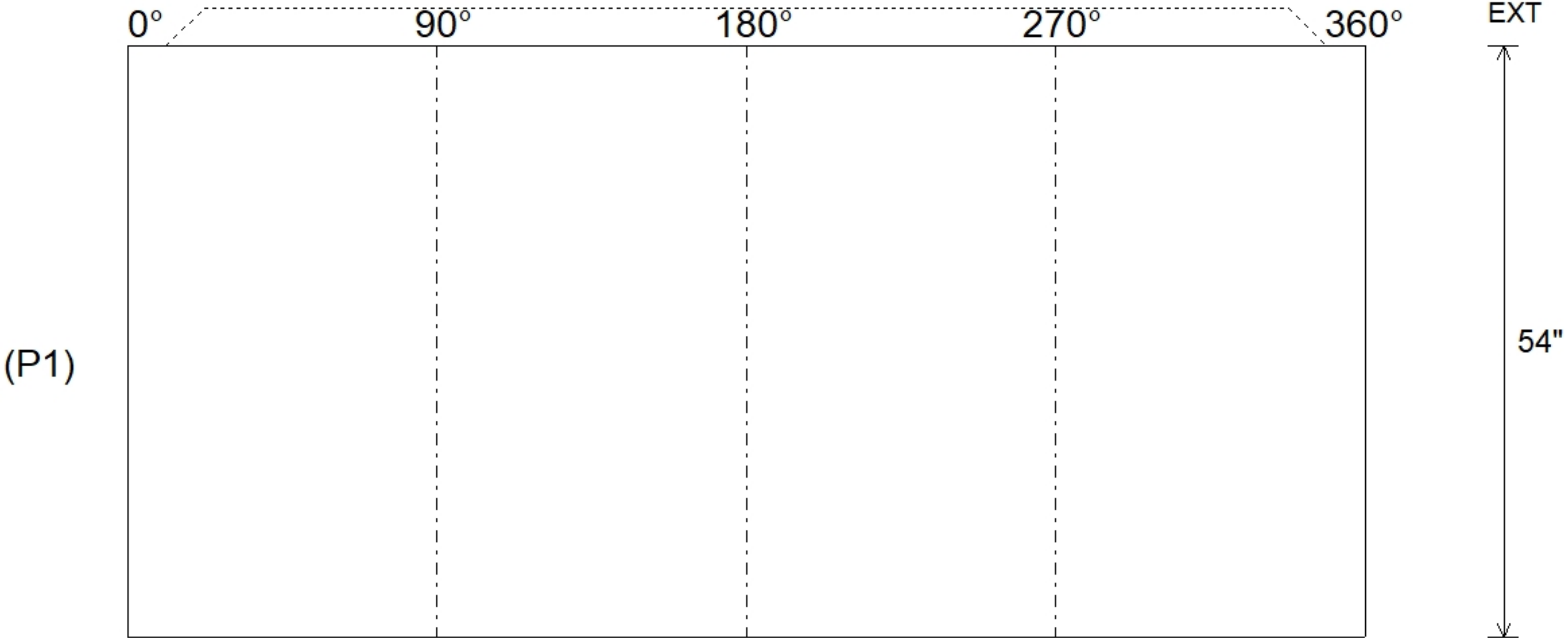
MH RISER Custom Ht T/G

P11) 48" x 36" - HATCH (CAST FLUSH) - 0"	0 lb	Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,500 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. NO STEPS 5. 2 EA. HALLIDAY W1R 48" X 36" HATCHES & 1 EA. HALLIDAY W1R 30" X 30" HATCH SUPPLIED BY OTHERS - TO BE CAST INTO FLAT LID 6. LADDER SUPPLIED BY OTHERS 7. 4 EA. 3"W X 24"L STAINLESS STEEL STRAPS SUPPLIED BY ICAST
P10) 144" - MH FLAT TOP w/(2) 48"x36" & (1) 30"x30" Hatches F/G - 18"	19644 lb	
P9) 144" - MH RISER Custom Ht T/G - 67"	36049 lb	
P8) 144" - MH RISER Custom Ht T/G - 67"	36049 lb	
P7) 144" - MH RISER Custom Ht T/G - 67"	36049 lb	
P6) 144" - MH RISER Custom Ht T/G - 67"	36049 lb	
P5) 144" - MH RISER Custom Ht T/G - 56"	30130 lb	
P4) 144" - MH RISER Custom Ht T/G - 74"	39815 lb	
P3) 144" - MH RISER Custom Ht T/G - 74"	39815 lb	
P2) 144" - MH RISER Custom Ht T/F - 74"	39445 lb	
P1) 144" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"	0 lb	Structure Total: 326546 lb
8) JOINT WRAP - 12" WD x 144" MAC WRAP	0 lb	
1) SECONDARY POUR - Intermediate Slab (In Riser P5)	0 lb	
1) This Structure Includes a Cast-in Item - Hatches (Supplied by Others)	13500 lb	
4) Stainless Steel Strap - 3"W x 24"L Stainless Steel Strap	0 lb	
9) 144" - Con Seal CS-231 1.00" (Double)	0 lb	
1) A-Lok - 0630	1 lb	

Rim: 755'	Rim to Invert: 46'	Slack: 0"	Sump: 12"	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										



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 13" Floor Height: 0"	Height (Int): 67" Height (Ext): 67"	Weight (Net): 36049 lb Volume (Net): 9.21cu.yd
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Job Name: 26-3046 903454 2026 Street Reconstruction					Plant: Beaver Dam		Tech: S. Felletter				
Job Location: Elk River, MN					7/17/2026 1:18:35 PM		PC: C. Goff				
Contractor: Contech Engineering Solutions											
Structure ID: Riser Set 1											
P1		MH036RS54		MH RISER T/F							
P4) 30" - CASTING HEIGHT - 4" P3) 30" - GRADE RING F/F - 3" P2) 36" - MH FLAT LID w/30in ECC Hole F/G - 10" P1) 36" - MH RISER T/F - 54" 1) CVSTENCILING 1) 36" - Conseal CS-102 1.00" 5) MH Step ML-10-TDS-NCR - 10"					0 lb 138 lb 683 lb 2278 lb 0 lb 0 lb 0 lb ----- Structure Total: 3099 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. 4" CASTING PROVIDED BY OTHERS. 4. CONTECH'S LOGO TO BE STENCILED ONTO THE OUTSIDE OF THE STRUCTURE. . REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .12)				
Rim: 5.917' Rim to Invert: 0' Slack: 0" Sump: 0" 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)											
											
INSIDE WALL DIMENSIONS											
											
Coating (Int):			Seam Up: Tongue		Wall Thickness: 4"		Height (Int): 54"		Weight (Net): 2278 lb		
Coating (Ext):			Seam Dn: Flat		Floor Height: 0"		Height (Ext): 54"		Volume (Net): 0.58cu.yd		

Job Name: 26-1185 - Wells Fargo Smyrna Job Location: Smyrna, TN 37167 Contractor: Hayes Pipe Supply					Plant: 100 7/21/2026 3:55:59 PM		Tech: Jared - F PC: E. Bradley				
Structure ID: A3-5 ST-MH											
P1 MH048BA36		MH BASE T/n									
P4) 24" - CASTING HEIGHT - 7" P3) 24" - GRADE RING F/F - 3" P2) 48" - ECC CONE w/ 24" HOLE F/G - 30" P1) 48" - MH BASE T/n - 36" 1) 48" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 22" 6) MH Step ML-10-TDS-NCR - 10"					0 lb 202 lb 2050 lb 3516 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 5768 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 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: 589.02' Rim to Invert: 6.22' Slack: 0.89' Sump: 2.25' Step Position: 270											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	582.8'	0°	0"	15" RCP B WALL	19.5"	Hole 22	22"	22.854"	0"	0"	
Invert 2	582.9'	92°	46.625"	15" RCP B WALL	19.5"	Hole 22	22"	22.854"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

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): 3516 lb Volume (Net): 0.9cu.yd
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Job Name: 26-2217 Kroger COB
Job Location: Bowling Green, KY
Contractor: Stewart Richey

Plant: Beaver Dam

Tech: J. Coppage

7/21/2026 8:12:38 AM

PC: T. Lewis



Structure ID: INL1 ST-MH

P1 MH048BA60

MH BASE

- P3) 24" x 24" - CASTING HEIGHT - 4"
P2) 48" - MH FLAT TOP w/24"x24" Hole - 12"
P1) 48" - MH BASE - 60"
1) CASTING - HOE 280T F/G
1) 48" - SGL 1"x14.5' Butyl (2x)
2) Hole - 24"
5) MH Step ML-10-TDS-NCR - 10"

- Structure Notes: .
1. JR HOE HOE-280T F/G PROVIDED BY ICAST.
2. PER ASTM C478 SPECIFICATIONS.
3. CONCRETE = 4,500 PSI AT 28 DAYS.
4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

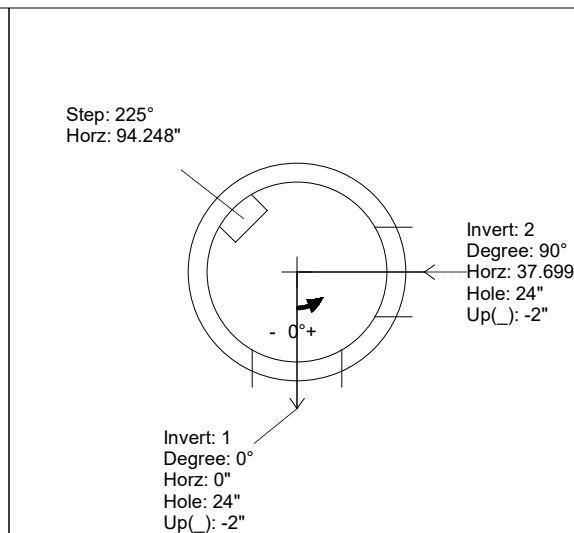
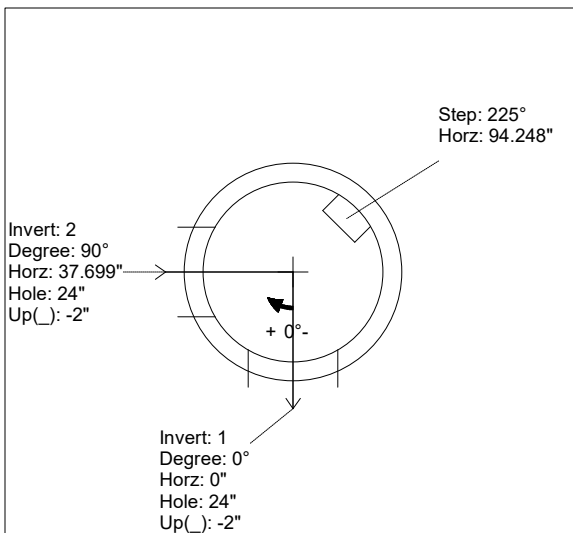
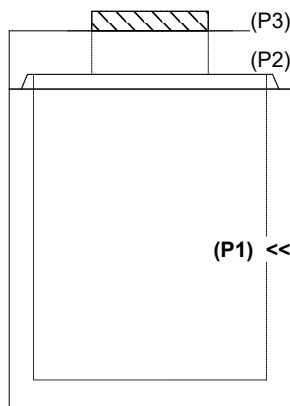
Structure Total: 6809 lb

Rim: 548.1' Rim to Invert: 6.46' Slack: 1.52' Sump: 0' Step Position: 225°

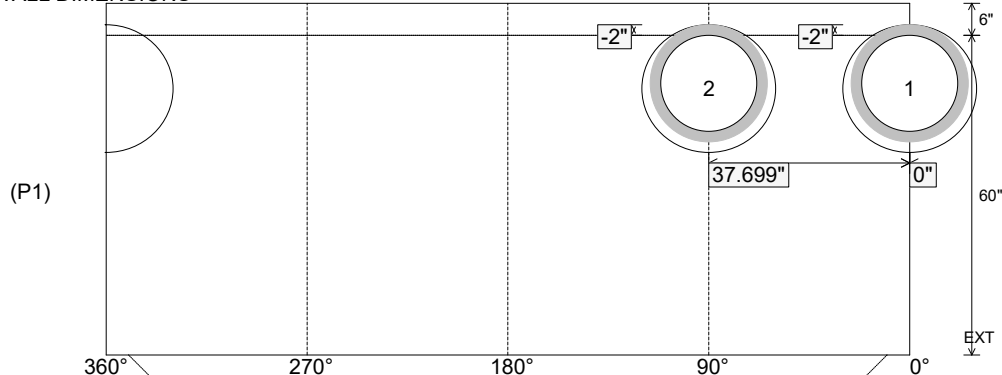
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	541.64'	0°	0"	18" ADS N-12	22"	Hole 24	24"	25.133"	-2"	0"
Invert 2	541.64'	90°	45.553"	18" ADS N-12	22"	Hole 24	24"	25.133"	-2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



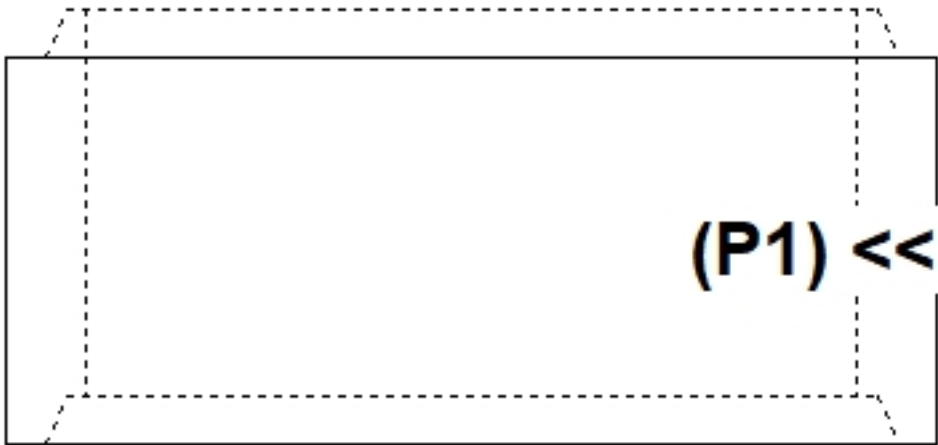
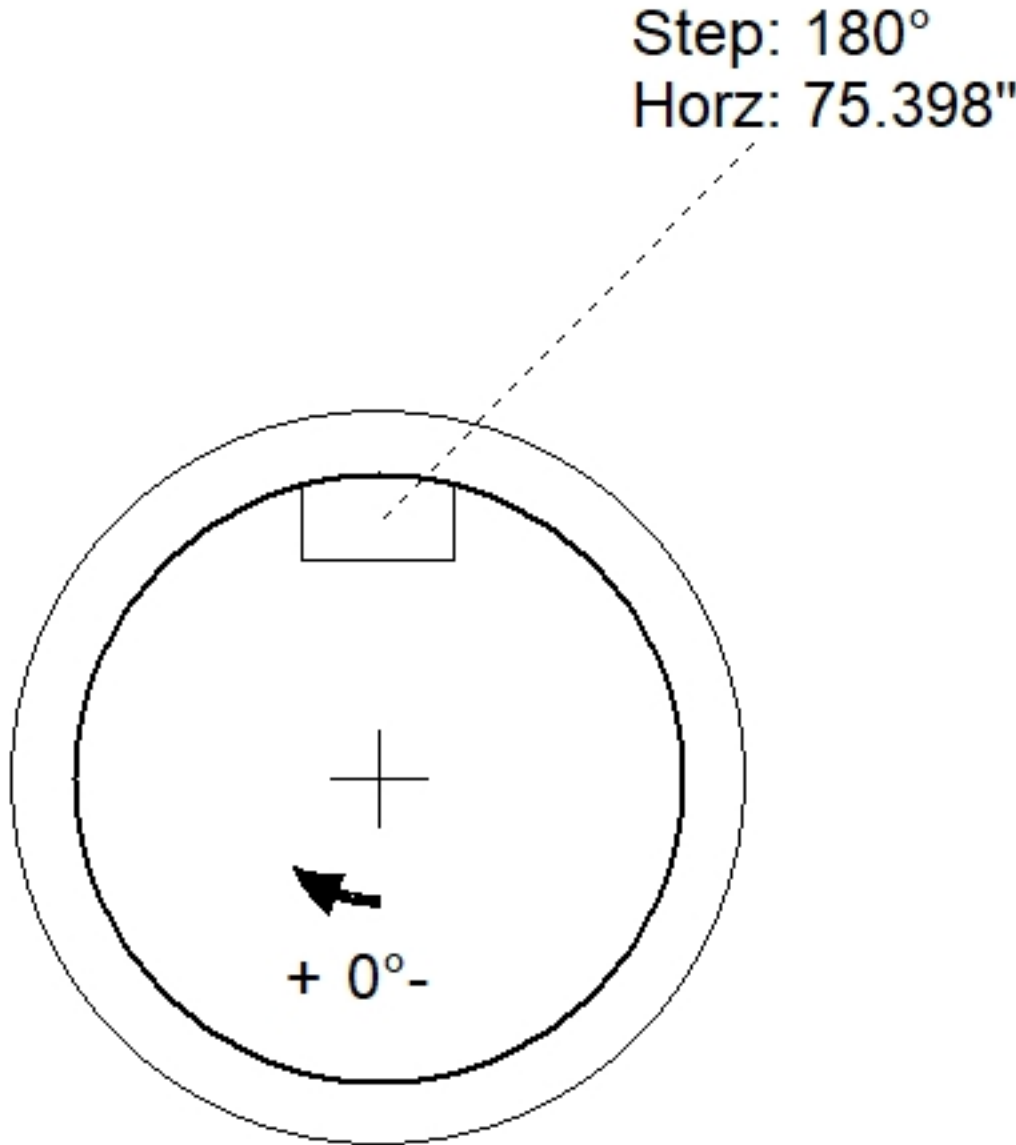
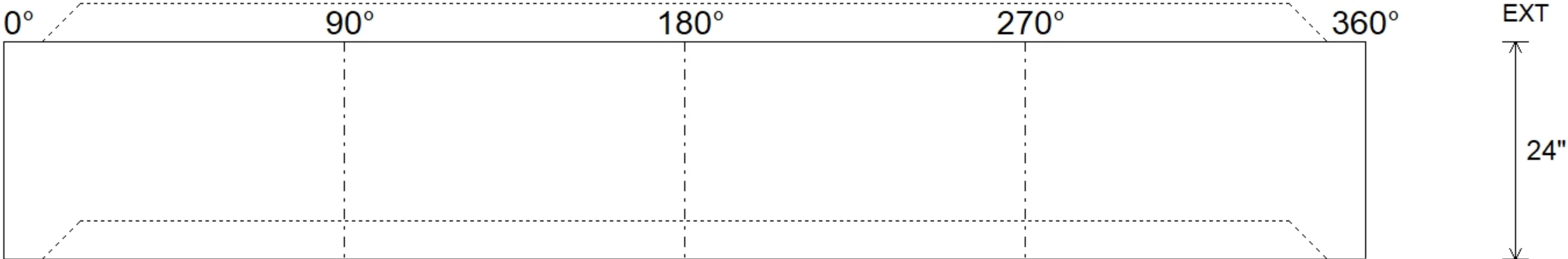
Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 60"
Height (Ext): 66"

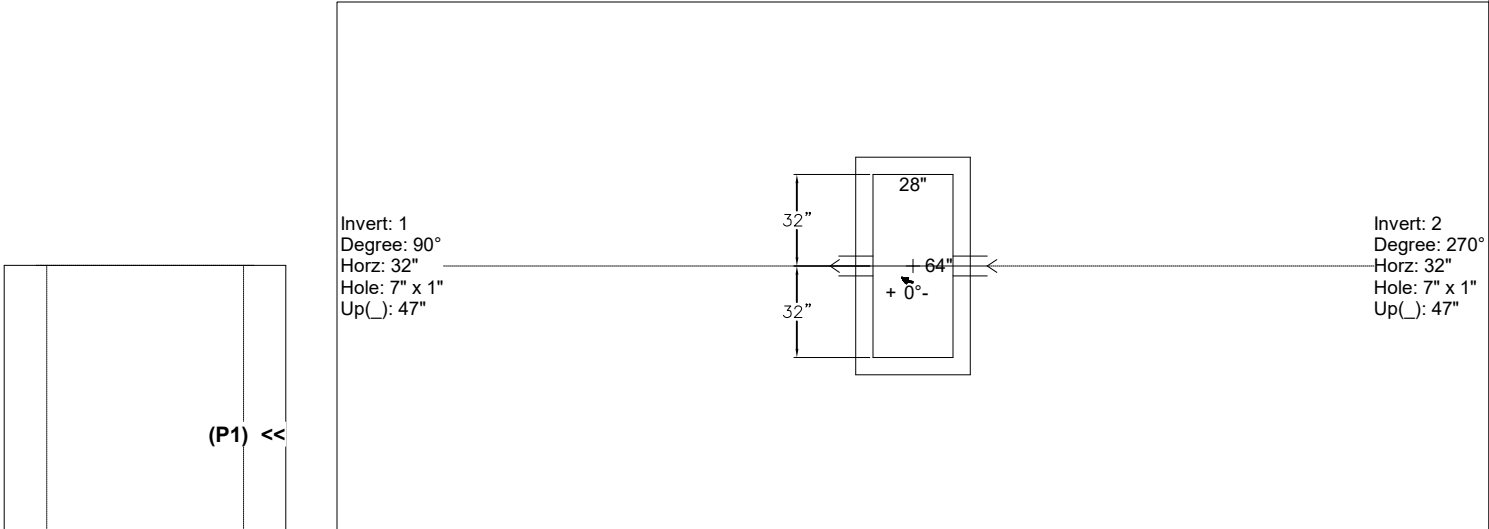
Weight (Net): 5127 lb
Volume (Net): 1.31cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B Job Location: Antioch, TN Contractor: Josh King Excavating					Plant: Beaver Dam 7/21/2026 8:41:53 AM		Tech: S. Felletter PC: A. Chambers				
Structure ID: E7.1											
P1		MH048RSVF		MH RISER Custom Ht T/G							
P1) 48" - MH RISER Custom Ht T/G - 24" 2) MH Step ML-10-TDS-NCR - 10"						1677 lb 0 lb ----- Structure Total: 1677 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. . REINFORCING PER ASTM A615 (GRADE 60). - RISER/WALLS (As .12)			
Rim: 2'		Rim to Invert: 0'		Slack: 0"		Sump: 0"		Step Position: 180			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
		INSIDE WALL DIMENSIONS									
(P1)											
		Coating (Int): Coating (Ext):		Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 5" Floor Height: 0"		Height (Int): 24" Height (Ext): 24"		Weight (Net): 1677 lb Volume (Net): 0.43cu.yd	

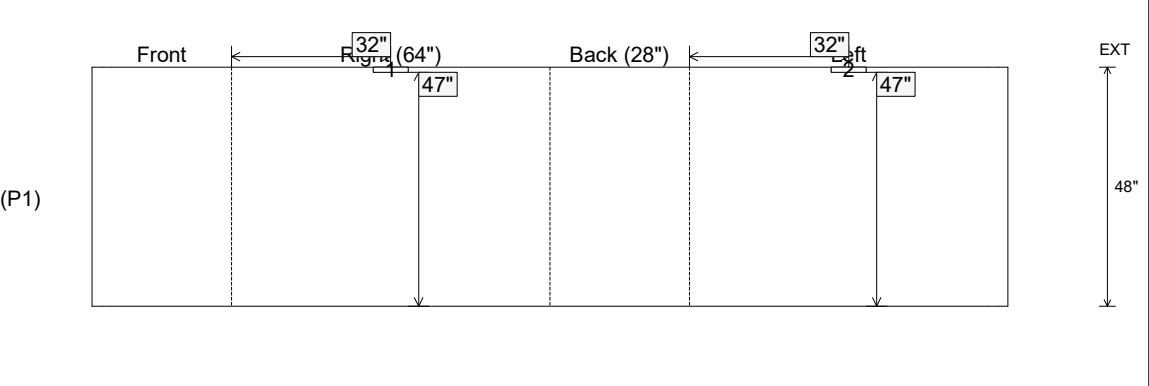
P1) 28" x 64" - BOX RISER 6inW, Variable Ht F/F - 48"					5020 lb 100 lb 0 lb ----- 5120 lb	Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. JBS 3108 LINTEL BAR BY ICAST. . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
) CASTING - JBS 3108 LINTLE BAR						
) LINTEL BAR SLOT n/n - 7"x1"						
Structure Total:						
Rim: 4'	Rim to Invert: 0.083'	Slack: 0"	Sump: 0"	Step Position:		

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.917'	90°	38"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	0"
Invert 2	3.917'	270°	38"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Flat	Wall Thickness: 6"	Height (Int): 48"	Weight (Net): 5020 lb
Coating (Ext):	Seam Dn: Flat	Floor Height: 0"	Height (Ext): 48"	Volume (Net): 1.28cu.yd

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

Plant: 100

7/9/2026 2:51:28 PM

Tech: Jared - A

PC: Thomas Ryan



Structure ID: H

P1 MH048BA36

MH BASE

- P3) 24" x 36" - CASTING HEIGHT - 6"
P2) 48" - MH FLAT TOP w/24"x36" Hole - 7"
P1) 48" - MH BASE - 36"
1) CASTING - HOE 525 SET (F/G/H)
1) 48" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 32
1) Hole - 30
3) MH Step ML-10-TDS-NCR - 10"

- 0 lb
1044 lb
3166 lb
442 lb
0 lb
0 lb
0 lb
0 lb
0 lb

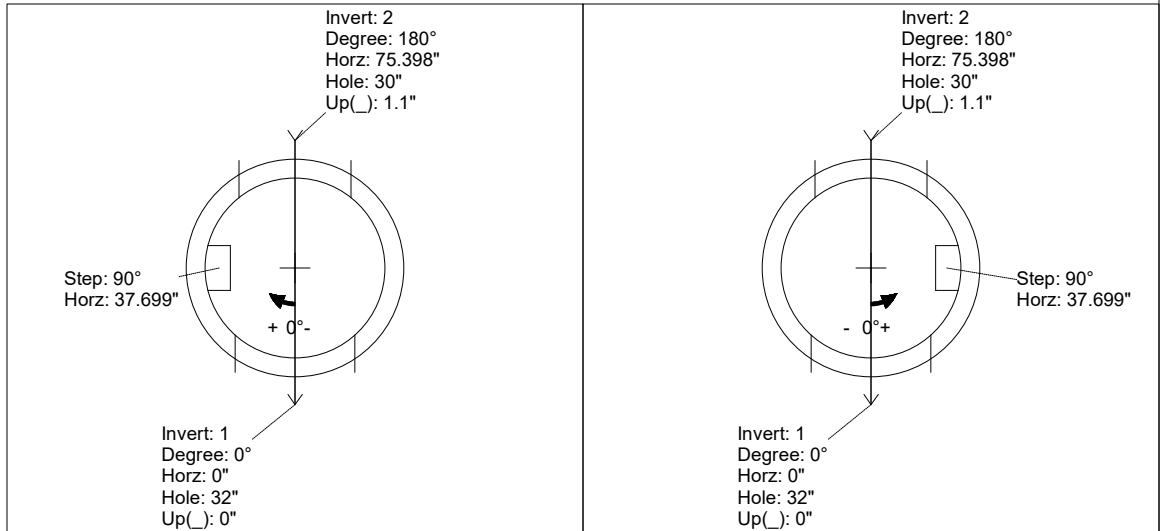
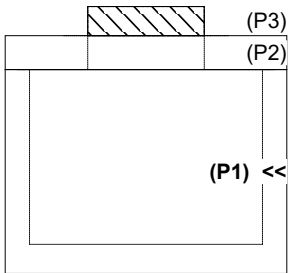
Structure Total: 4652 lb
- Structure Notes:**
PLAN LABEL: H
1. HOE 525 SET (F/G/H) PROVIDED BY ICAST.
2. PER ASTM C478 SPECIFICATIONS.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 690.82' Rim to Invert: 3.85' Slack: 0.2" Sump: 3" Step Position: 90°

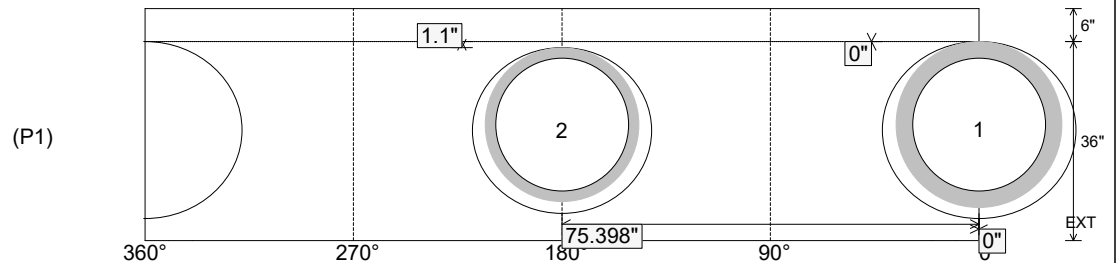
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	686.97'	0°	0"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 2	686.97'	180°	91.106"	24" HDPE	27.8"	Hole 30	30"	32.406"	1.1"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

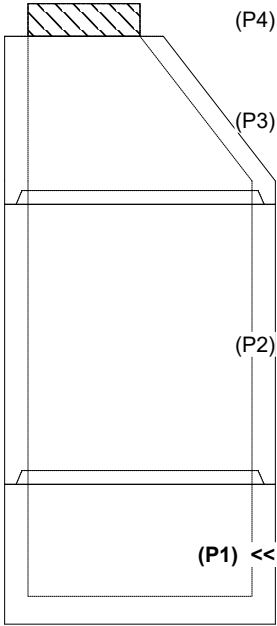
Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 36"
Height (Ext): 42"

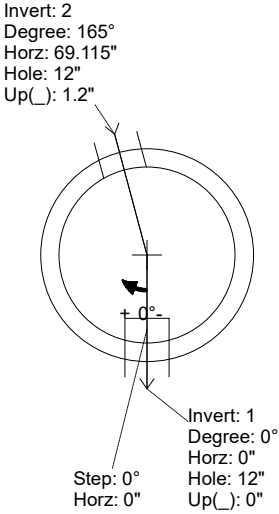
Weight (Net): 3166 lb
Volume (Net): 0.81cu.yd

Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:12:57 AM		Tech: Jared - A PC: Erica Bradley			
Structure ID: A5.5										
P1 MH048BA24X		MH BASE w/XYPEX								
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 36" P2) 48" - MH RISER w/XYPEX - 60" P1) 48" - MH BASE w/XYPEX - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb		Structure Notes: . 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Structure Total:					11060 lb					
Rim: 725.13' Rim to Invert: 10.47' Slack: 0.64" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	714.66'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	714.76'	165°	83.514"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



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

RIGHT-SIDE UP VIEW (int. dimensions)

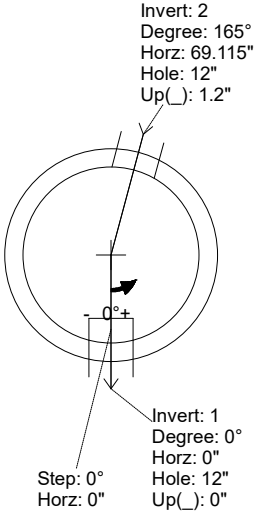


Invert: 2
Degree: 165°
Horz: 69.115"
Hole: 12"
Up(): 1.2"

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

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)

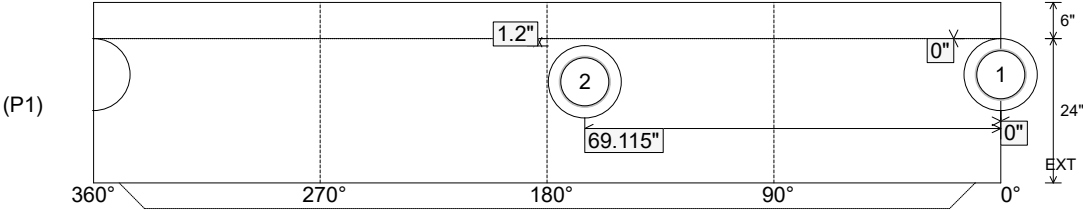


Invert: 2
Degree: 165°
Horz: 69.115"
Hole: 12"
Up(): 1.2"

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

Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS



(P1)

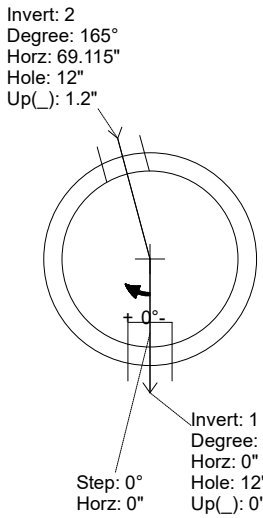
360° 270° 180° 90° 0°

1.2" 69.115" 0" 0"

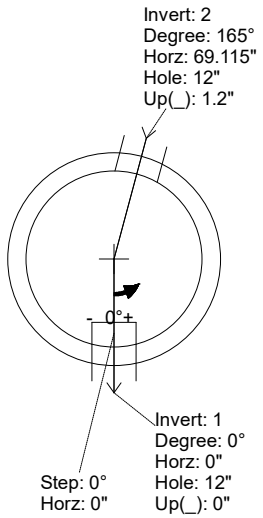
6" 24" EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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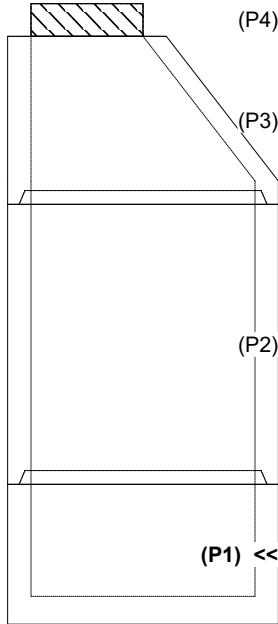
Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:12:57 AM		Tech: Jared - A PC: Erica Bradley				
Structure ID: A5.5											
P1 MH048BA24X		MH BASE w/XYPEX									
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 36" P2) 48" - MH RISER w/XYPEX - 60" P1) 48" - MH BASE w/XYPEX - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb		Structure Notes: . 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST				
Structure Total:					11060 lb		INVERT CHANNEL DRAWING FULL HEIGHT INVERT				
Rim: 725.13' Rim to Invert: 10.47' Slack: 0.64" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	714.66'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	714.76'	165°	83.514"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



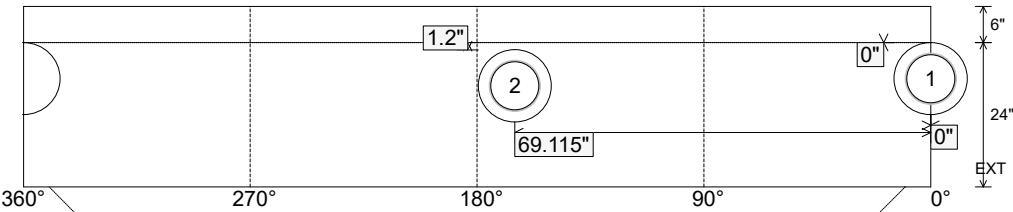
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



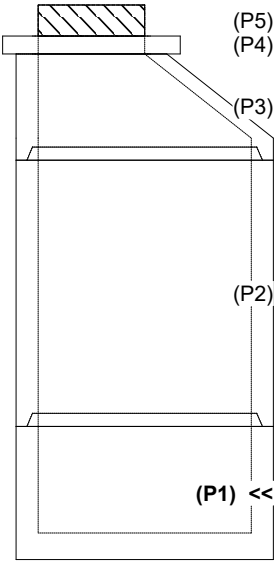
INSIDE WALL DIMENSIONS



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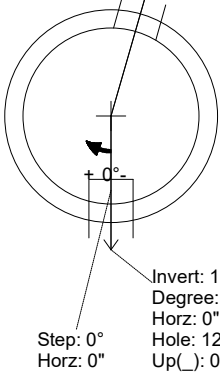
Weight (Net): 2911 lb
Volume (Net): 0.74cu.yd

Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:12:56 AM		Tech: Jared - A PC: Erica Bradley						
Structure ID: A5.4													
P1 MH048BA24X		MH BASE w/XYPEX											
P5) 24" - CASTING HEIGHT - 7" P4) 24" - XYPEX GRADE RING - 4" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 24" P2) 48" - MH RISER w/XYPEX - 60" P1) 48" - MH BASE w/XYPEX - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 9) MH Step ML-10-TDS-NCR - 10"						0 lb 270 lb 1738 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- 10817 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST INVERT CHANNEL DRAWING FULL HEIGHT INVERT					
Rim: 721.95' Rim to Invert: 9.79' Slack: 0.48" Sump: 2" Step Position: 0°													
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1	712.16'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"			
Invert 2	712.36'	196°	99.205"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.4"	0"			
Invert 3													
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													



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

RIGHT-SIDE UP VIEW (int. dimensions)

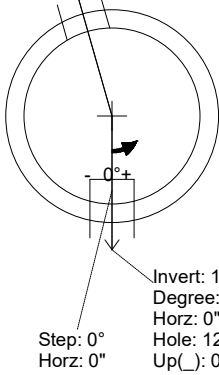


Invert: 2
Degree: 196°
Horz: 82.1"
Hole: 12"
Up(): 2.4"

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

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)

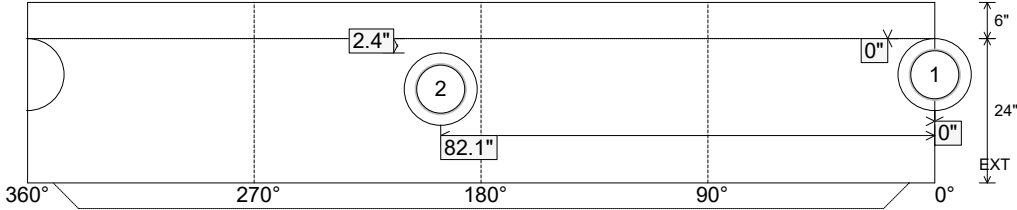


Invert: 2
Degree: 196°
Horz: 82.1"
Hole: 12"
Up(): 2.4"

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

Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS



(P1)

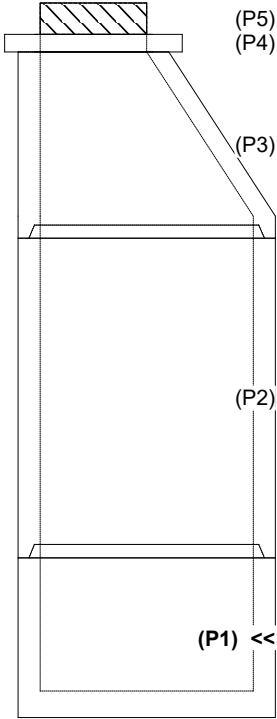
360° 270° 180° 90° 0°

2.4" 82.1" 0" 0"

6" 24" EXT

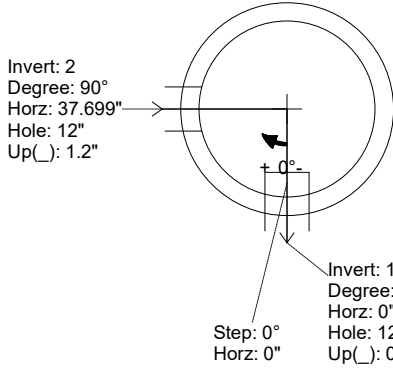
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:13:01 AM		Tech: Jared - A PC: Erica Bradley			
Structure ID: A12										
P1 MH048BA30X		MH BASE w/XYPEX								
P5) 24" - CASTING HEIGHT - 7" P4) 24" - XYPEX GRADE RING - 4" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 42" P2) 48" - MH RISER w/XYPEX - 72" P1) 48" - MH BASE w/XYPEX - 30" 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) 2) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 12) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 3116 lb 5030 lb 3330 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: 726.2' Rim to Invert: 12.82' Slack: 0.84" Sump: 2" Step Position: 0°					Structure Total: 13452 lb					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	713.38'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	713.48'	90°	45.553"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



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

RIGHT-SIDE UP VIEW (int. dimensions)

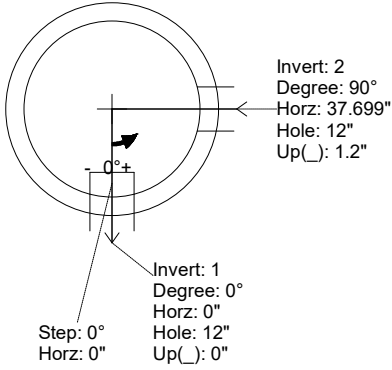


Invert: 2
Degree: 90°
Horz: 37.699"
Hole: 12"
Up(): 1.2"

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

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)

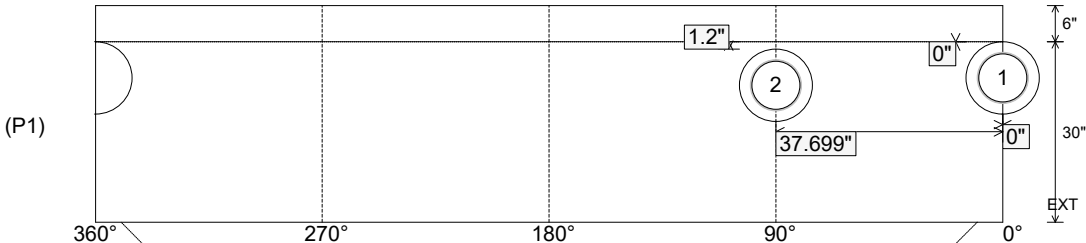


Invert: 2
Degree: 90°
Horz: 37.699"
Hole: 12"
Up(): 1.2"

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

Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS



(P1)

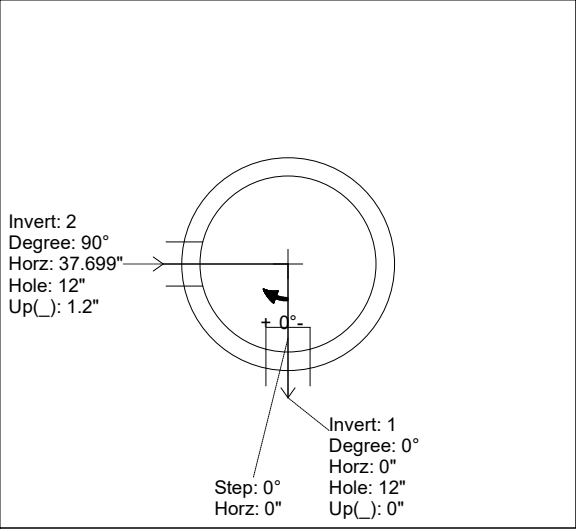
360° 270° 180° 90° 0°

1.2" 0" 37.699" 0" 6" 30" EXT

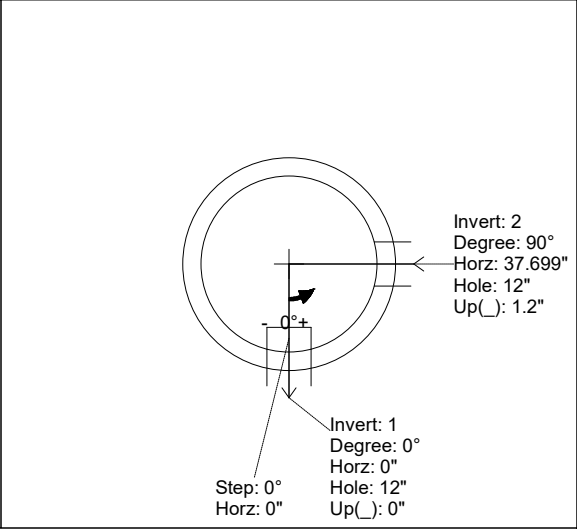
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3330 lb Volume (Net): 0.85cu.yd
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Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:13:01 AM		Tech: Jared - A PC: Erica Bradley				
Structure ID: A12											
P1 MH048BA30X		MH BASE w/XYPEX									
P5) 24" - CASTING HEIGHT - 7" P4) 24" - XYPEX GRADE RING - 4" P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 42" P2) 48" - MH RISER w/XYPEX - 72" P1) 48" - MH BASE w/XYPEX - 30" 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) 2) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 12) MH Step ML-10-TDS-NCR - 10"						0 lb 270 lb 3116 lb 5030 lb 3330 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Structure Total: 13452 lb						INVERT CHANNEL DRAWING FULL HEIGHT INVERT					
Rim: 726.2' Rim to Invert: 12.82' Slack: 0.84" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	713.38'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	713.48'	90°	45.553"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

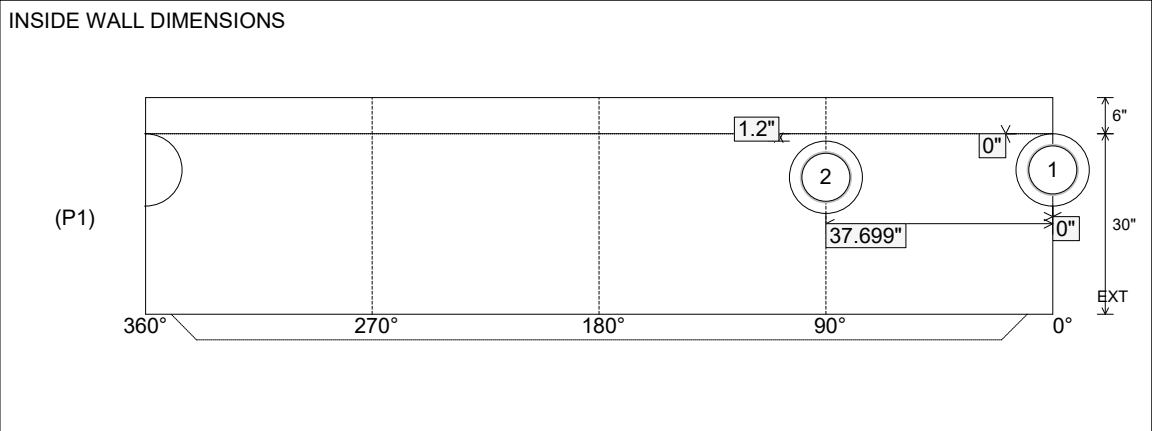
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

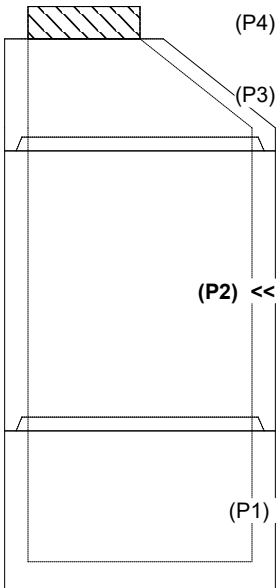


INSIDE WALL DIMENSIONS



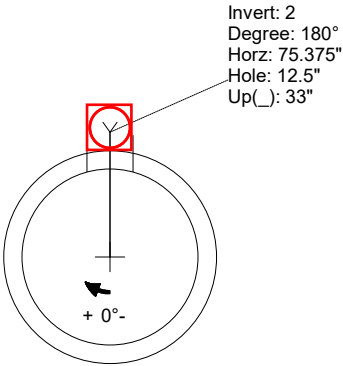
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3330 lb Volume (Net): 0.85cu.yd
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Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:56:54 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: A7 (11)											
P2 MH048RS60S-D				MH RISER T/G							
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 24" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE Custom Ht T/n - 28" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 12" WD x 048" MAC WRAP 2) 48" - Conseal CS-102 1.00" (Double) 1) PSX - 16M DD 1) Drop Tee - 12" PVC 1) Drop Elbow - 12" PVC					0 lb 1550 lb 4140 lb 3149 lb 1440 lb 0 lb 0 lb 8 lb 0 lb 0 lb ----- Structure Total: 10286 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. EXTERIOR DROP ASSEMBLY PROVIDED BY ICAST. 6. 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: 556.7' Rim to Invert: 9.81' Slack: 0.72' Sump: 2" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2	552.18'	180°	91.125"	12" PVC SDR35	12.5"	Drop Tee 12" PVC	12.5"	12.646"	33"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



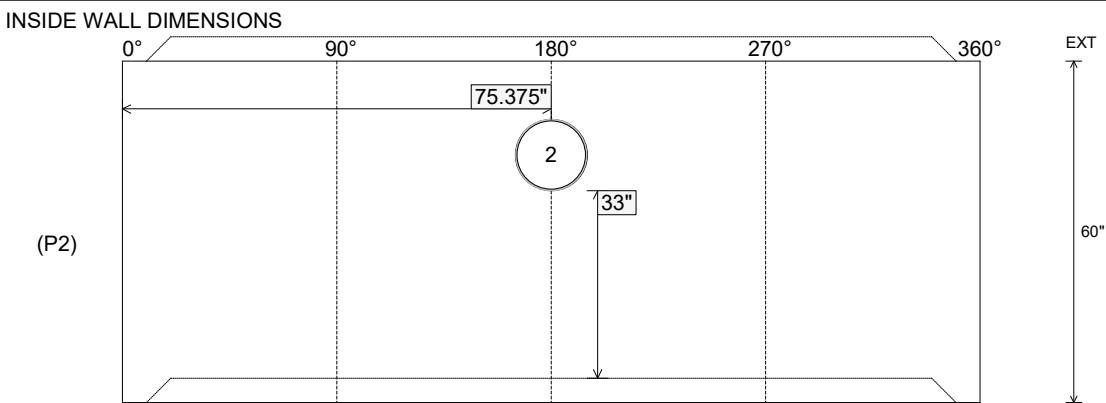
(P4)
(P3)
(P2) <<
(P1)

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 75.375"
Hole: 12.5"
Up(): 33"
+ 0°

INSIDE WALL DIMENSIONS



(P2)

0° 90° 180° 270° 360°
75.375"
33"
60"
EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 60" Height (Ext): 60"	Weight (Net): 4140 lb Volume (Net): 1.06cu.yd
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Job Name: 26-1733 - Liberty Power Station
Job Location: Liberty, KY
Contractor: Weddle Enterprises, Inc

Plant: 100

7/20/2026 8:30:30 AM

Tech: Jared - F

PC: T. Ryan



Structure ID: CB-22

P2 MH060LD08CC

MH FLAT TOP w/24" Ctr. Hole

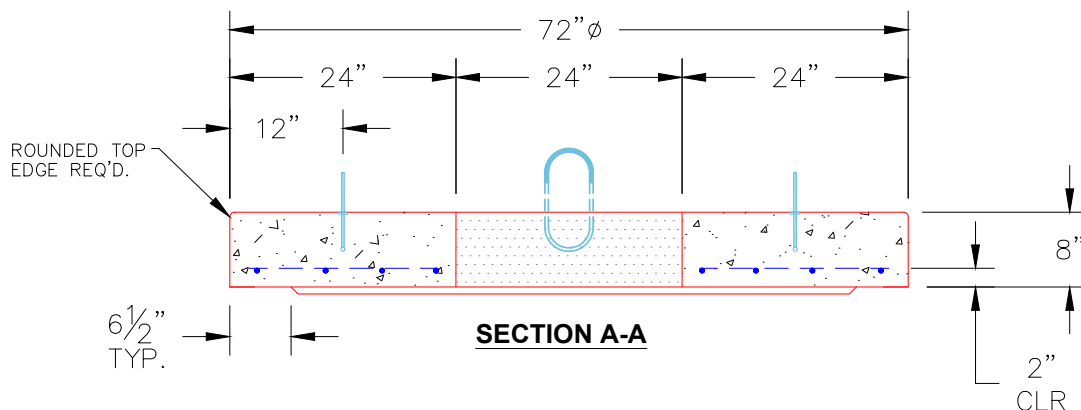
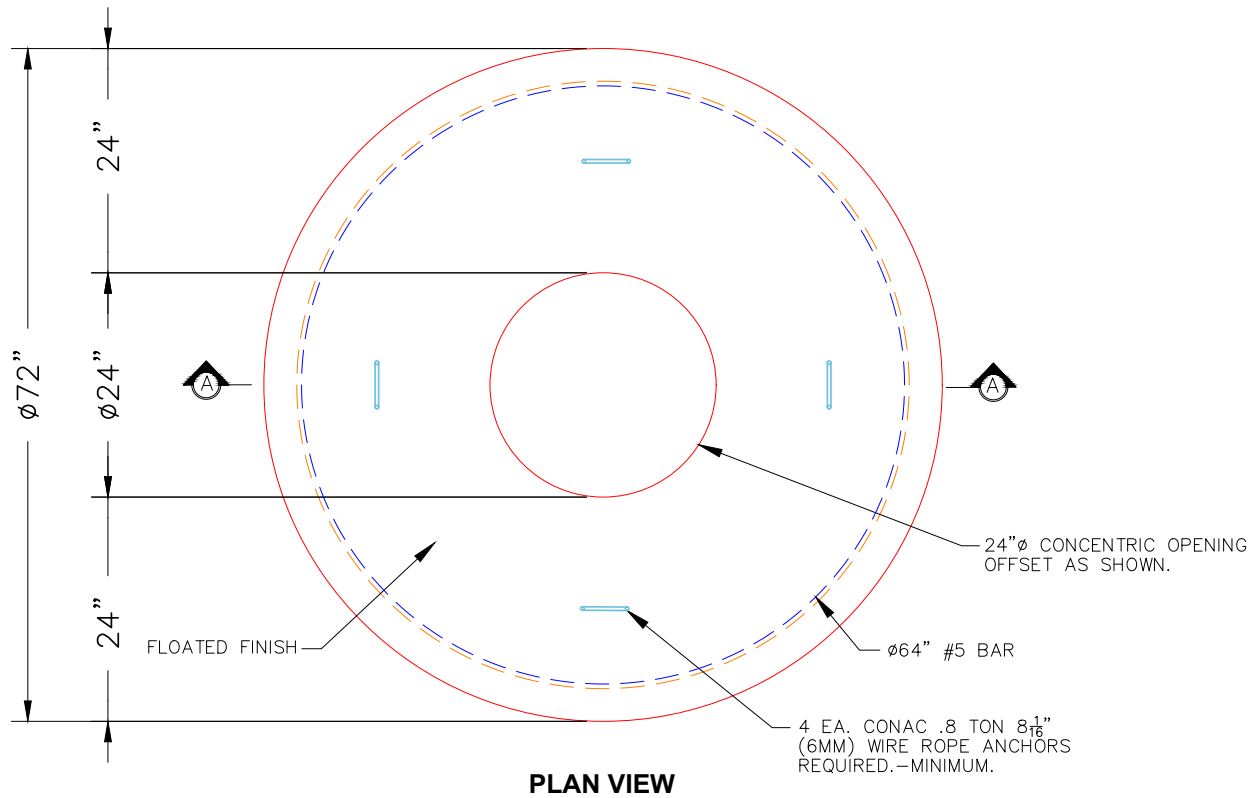
- P3) 24" - CASTING HEIGHT - 4"
P2) 60" - MH FLAT TOP w/24" Ctr. Hole - 8"
P1) 60" - MH BASE Custom Ht - 70"
1) 60" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 40
1) DOGHOUSE INVRTD - 18"x19"
6) MH Step ML-10-TDS-NCR - 10"

0 lb
2429 lb
8515 lb
0 lb
0 lb
0 lb
0 lb
0 lb

10944 lb

Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING SUPPLIED BY OTHERS.
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.

Structure Total:



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): 8"

Weight (Net): 2429 lb
Volume (Net): 0.62cu.yd

Job Name: 26-1733 - Liberty Power Station Job Location: Liberty, KY Contractor: Weddle Enterprises, Inc					Plant: 100 7/20/2026 2:23:20 PM		Tech: Jared - F PC: T. Ryan			
Structure ID: CB-22										
P1 MH060BAVF			MH BASE Custom Ht							
P3) 24" - CASTING HEIGHT - 4" P2) 60" - MH FLAT TOP w/24" Ctr. Hole - 8" P1) 60" - MH BASE Custom Ht - 70" 1) 60" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 40 1) Hole - 16 6) MH Step ML-10-TDS-NCR - 10"					0 lb 2429 lb 8575 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 11005 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING SUPPLIED BY OTHERS. 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: 1076' Rim to Invert: 6.55' Slack: 0.1" Sump: 3.5" Step Position: 270°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	1069.45'	0°	0"	30" RCP B WALL	37"	Hole 40	40"	43.784"	0"	0"
Invert 2	1073.4'	90°	56.549"	12" HDPE	14.5"	Hole 16	16"	16.196"	49.65"	0"
Invert 3	1069.45'	180°	113.097"	30" RCP B WALL	37"	Hole 40	40"	43.784"	0"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

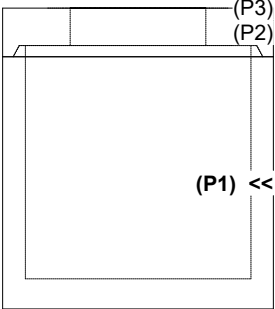
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

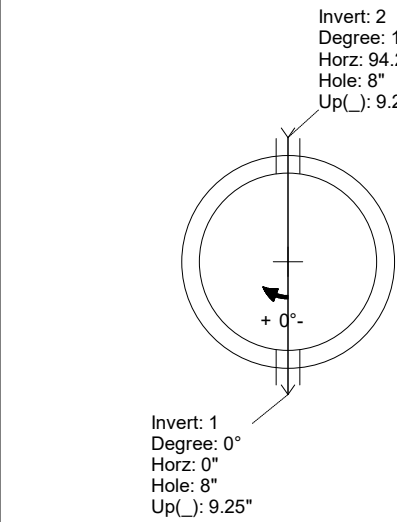
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 70" Height (Ext): 78"	Weight (Net): 8575 lb Volume (Net): 2.19cu.yd
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Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100 6/4/2026 5:54:15 PM		Tech: Jared - F PC: J Jarvis						
Structure ID: WAS VAULT 1													
P1		MH060BAVF										MH BASE Custom Ht T/n	
P3) 36" x 36" - CASTING HEIGHT - 0" P2) 60" - MH FLAT TOP w/36"x36" Hatch F/G - 13" P1) 60" - MH BASE Custom Ht T/n - 59" 1) HATCH (Alum.) - HALLIDAY W1S 36"x36" 1) 60" - Conseal CS-102 1.00" (Double) 1) 36" x 36" - Conseal CS-102 1.00" (Double) 2) PSX - 8QRS DD						0 lb 2132 lb 8842 lb 78 lb 0 lb 0 lb 13 lb ----- Structure Total: 11065 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 36"X36") REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .18) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.					
Rim: 454'		Rim to Invert: 5.06'		Slack: -0.002"		Sump: 11.28"		Step Position:					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1	448.94'	0°	0"	4" DI	4.75"	PSX 8QRS DD	8"	8.024"	9.25"	0"			
Invert 2	448.94'	180°	113.125"	4" DI	4.75"	PSX 8QRS DD	8"	8.024"	9.25"	0"			
Invert 3													
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													



(P3)
(P2)
(P1) <<

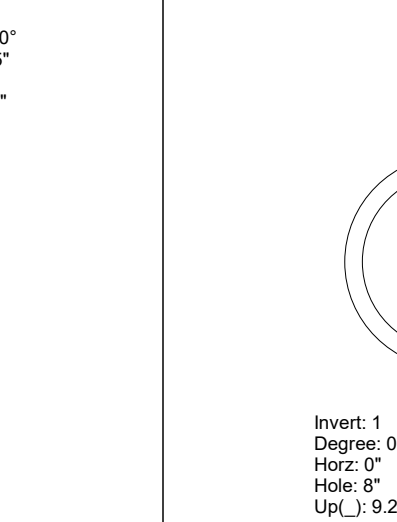
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 94.25"
Hole: 8"
Up(): 9.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 8"
Up(): 9.25"

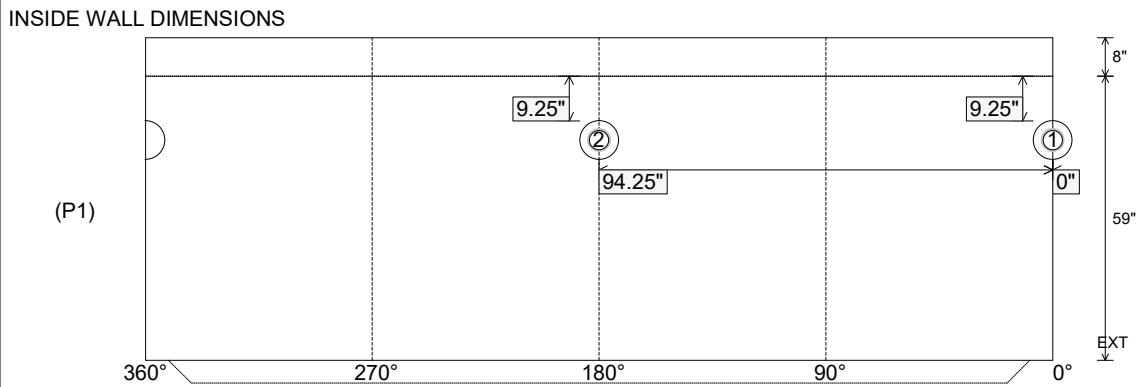
UPSIDE-DOWN VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 94.25"
Hole: 8"
Up(): 9.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 8"
Up(): 9.25"

INSIDE WALL DIMENSIONS



(P1)

9.25"

94.25"

9.25"

0"

59"

EXT

360° 270° 180° 90° 0°

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

Height (Int): 59"

Height (Ext): 67"

Weight (Net): 8842 lb

Volume (Net): 2.26cu.yd

Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion

Job Location: Shepherdsville, KY

Contractor: Pace Contracting, LLC

Plant: 100

6/4/2026 5:54:35 PM

Tech: Jared - F

PC: J Jarvis



Structure ID: SAMPLER MH

P2MH060RS24SMH RISER T/G

P4) 36" x 36" - CASTING HEIGHT - 0"

P3) 60" - MH FLAT TOP w/36"x36" Hatch F/G - 13"

P2) 60" - MH RISER T/G - 24"

P1) 60" - MH BASE Custom Ht T/n - 60"

1) HATCH (Alum.) - HALLIDAY W1S 36"x36"

2) 60" - Conseal CS-102 1.00" (Double)

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

3) Hole - 8

1) Hole - 4

0 lb

2132 lb

2505 lb

8905 lb

78 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 13620 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 36"X36")

REINFORCING PER ASTM A615 (GRADE 60).

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

- RISER/WALLS (As .18)

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

Rim: 450.92'Rim to Invert: 7.99'Slack: -0.006"Sump: 1.116"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										

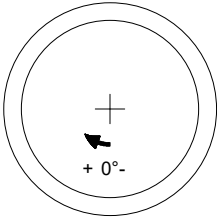
(P4)

(P3)

(P2) <<

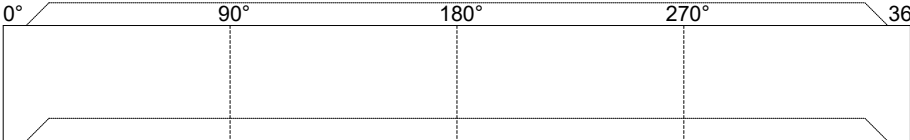
(P1)

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

(P2)



EXT 24"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 6"

Floor Height: 0"

Height (Int): 24"

Height (Ext): 24"

Weight (Net): 2505 lb

Volume (Net): 0.64cu.yd

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

Plant: 100

6/4/2026 5:54:52 PM

Tech: Jared - F

PC: J Jarvis



Structure ID: METER VAULT 1

P3 MH060LD13S

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

P4) 36" x 36" - CASTING HEIGHT - 0"
P3) 60" - MH FLAT TOP w/36"x36" Hatch F/G - 13"
P2) 60" - MH RISER T/G - 60"
P1) 60" - MH BASE Custom Ht T/n - 47"
1) HATCH (Alum.) - HALLIDAY W1S 36"x36"
2) 60" - Con Seal CS-102 1.00" (Double)
1) 36" x 36" - Con Seal CS-102 1.00" (Double)
2) PSX - 8QRS DD

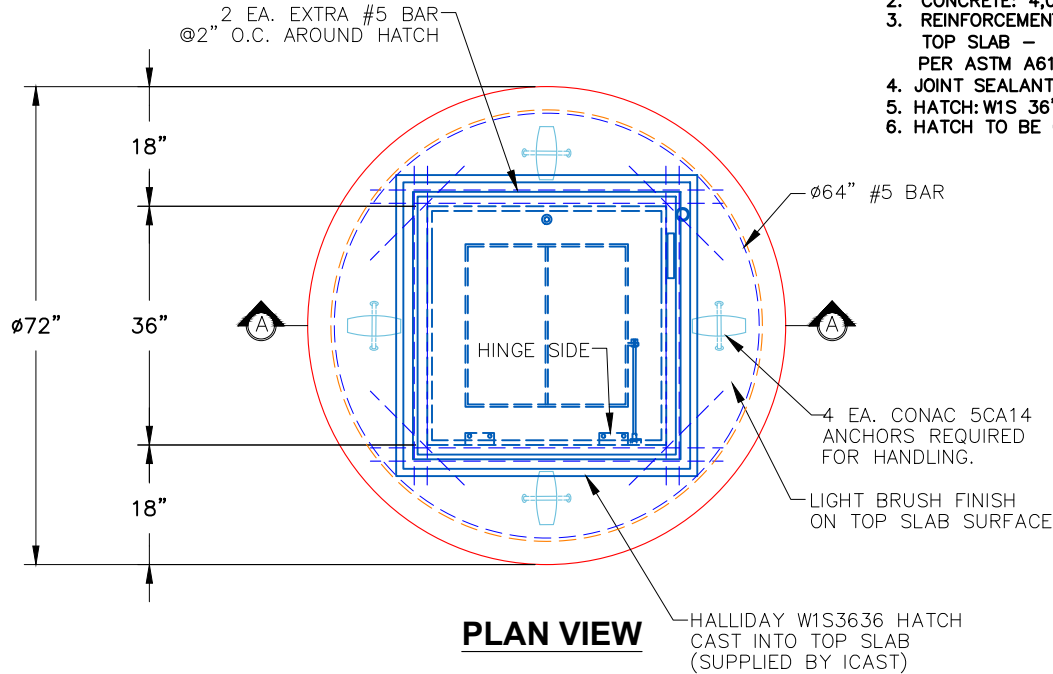
0 lb
2132 lb
6213 lb
7640 lb
78 lb
0 lb
0 lb
13 lb

Structure Total: 16075 lb

Structure Notes:

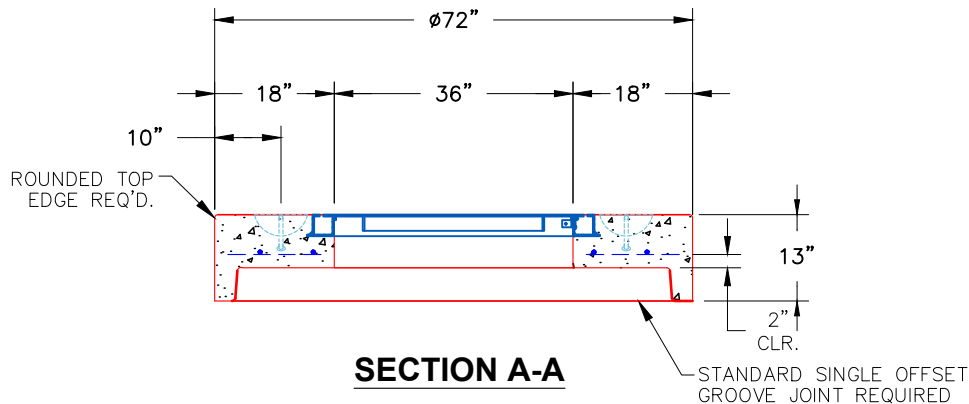
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. HATCH SUPPLIED BY I-CAST (HALLIDAY W1S 36"x36")

REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .18)
- FLOOR (As .47) #5 BARS AT 12" C.C.E.W.



NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 13"

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

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

Plant: 100

7/9/2026 2:52:14 PM

Tech: Jared - A

PC: Thomas Ryan



Structure ID: Q

P2 MH072LD08S

MH FLAT TOP SPEC. HT. (8") w/24"x36" Hole

P3) 24" x 36" - CASTING HEIGHT - 6"

P2) 72" - MH FLAT TOP SPEC. HT. (8") w/24"x36" Hole - 8"

P1) 72" - MH BASE - 54"

1) CASTING - HOE 525 SET (F/G/H)

1) 72" - Conseal CS-102 1.00"

1) 24" x 36" - Conseal CS-102 1.00"

1) DOGHOUSE INVRTD - 54"x51"

1) Hole - 50

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

0 lb Structure Notes:

3319 lb PLAN LABEL: Q

8816 lb

442 lb

0 lb

0 lb

0 lb

0 lb

0 lb

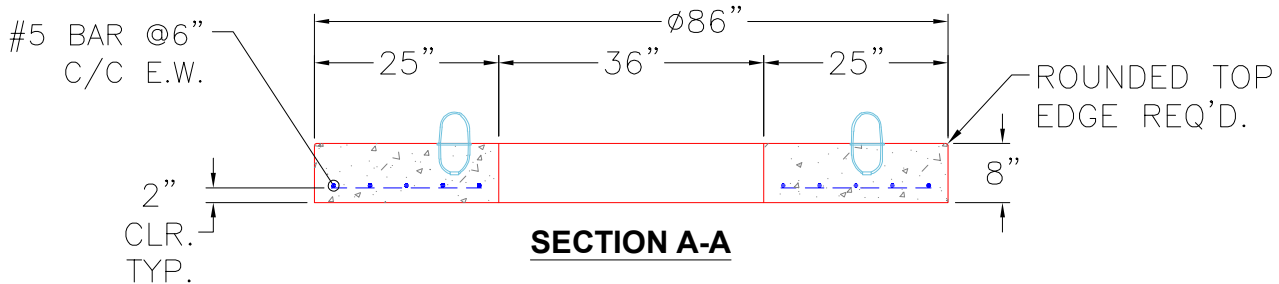
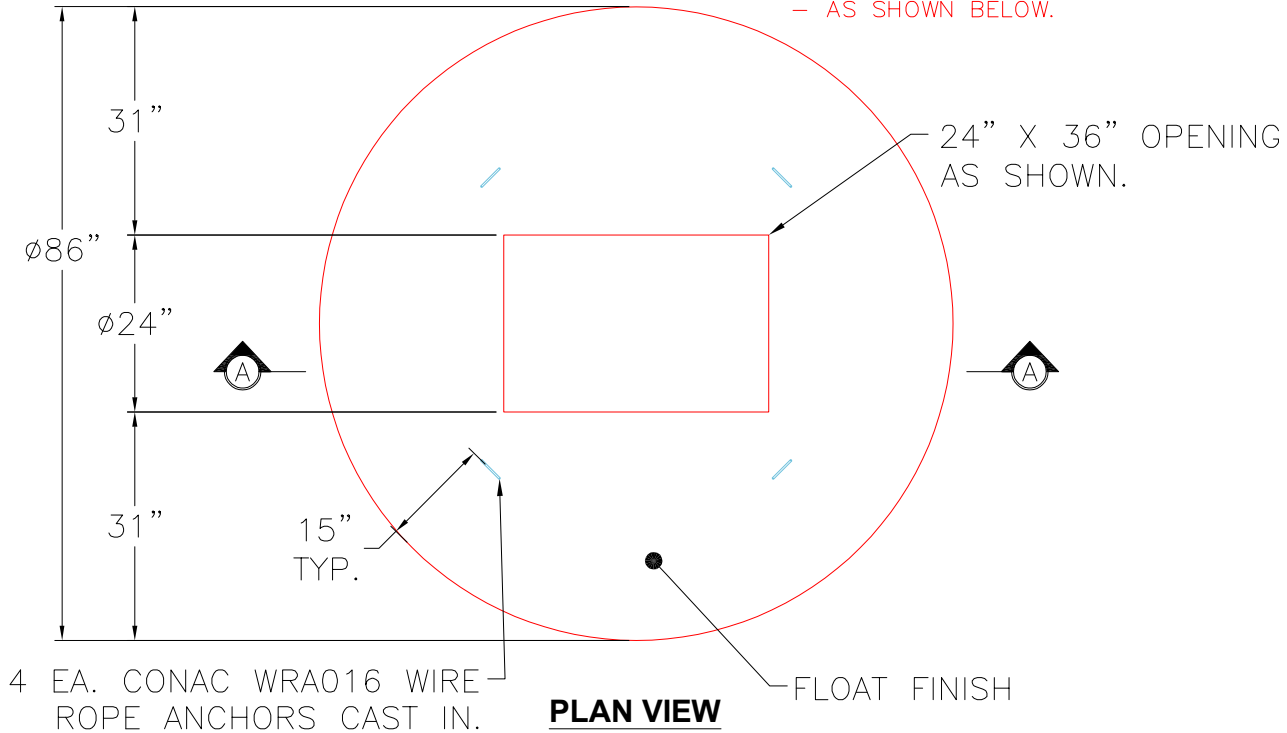
Structure Total:

12578 lb

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

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: PER ASTM A615 (GRADE 60)
- AS SHOWN BELOW.



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 7"

Height (Ext): 8"

Weight (Net): 3319 lb
Volume (Net): 0.85cu.yd

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

Plant: Beaver Dam

7/21/2026 8:12:40 AM

Tech: J. Coppage

PC: T. Lewis



Structure ID: QL3

P1 MH084BAEVF

MH BASE w/FLANGE (12F/07EF)

P4) 60" x 54" - HATCH (CAST FLUSH) - 3"

P3) 84" - MH FLAT TOP w/60"x54" Hatch - 17"

P2) 84" - MH RISER - 90"

P1) 84" - MH BASE w/FLANGE (12F/07EF) - 60"

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

1) HATCH (Alum.) - HALLIDAY H2W 60"x54"

1) This Structure Includes a Cast-in Item - 60" x 54" Hatch

1) SECONDARY POUR - EXT FLANGE

2) 84" - Conseal CS-231 1.00" (Double)

2) PSX - 12M NYLO

1) PSX - 12-08 NYLO

1) PSX - 8QRS-S NYLO

100 lb

5152 lb

17186 lb

21919 lb

0 lb

263 lb

0 lb

0 lb

0 lb

16 lb

8 lb

6 lb

Structure Notes:

1. HALLIDAY H2W 60" X 54" HATCH BY ICAST.

2. HATCH TO BE CAST INTO THE TOP SLAB.

3. PER ASTM C478 SPECIFICATIONS.

4. CONCRETE = 4,500 PSI AT 28 DAYS.

5. NO STEPS

6. REINFORCING PER ASTM A615 (GRADE 60).

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

- RISER/WALLS (As .12)

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

Structure Total: 44651 lb

WEIGHTS:

FIRST POUR - 19,550 LBS.

SECOND POUR - 2,369 LBS.

TOTAL - 21,919 LBS.

Rim: 547.24'

Rim to Invert: 7.24'

Slack: 0.64"

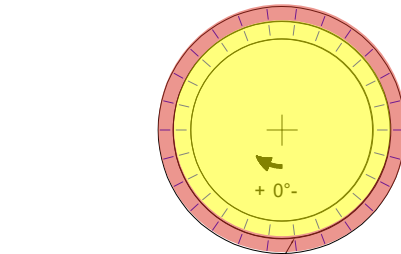
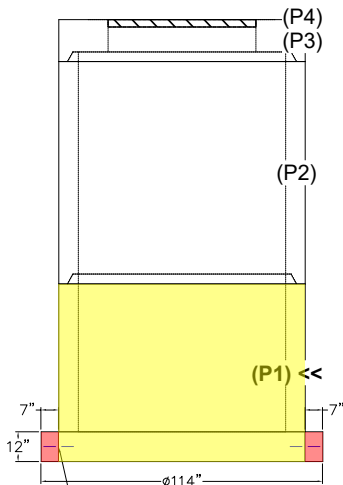
Sump: 80.76"

Step Position:

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

RIGHT-SIDE UP VIEW (int. dimensions)

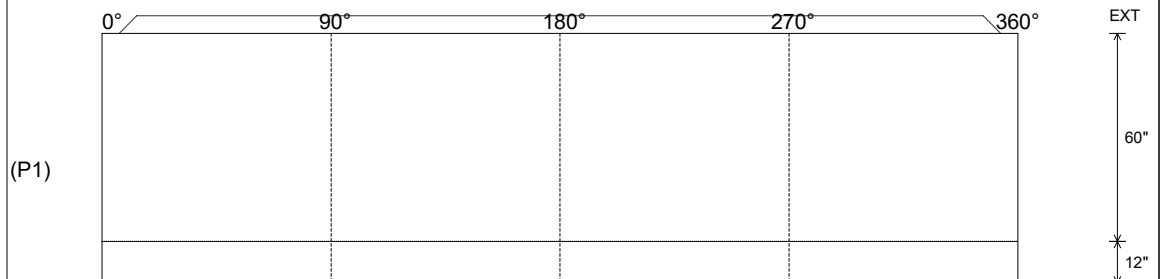
UPSIDE-DOWN VIEW (int. dimensions)



DRILL & STUB 26 EA. #5 BARS @
10" LONG 12" C-C AROUND THE
PERIMETER OF THE MANHOLE FOR
FLANGE POUR. 5" MIN. PENETRATION
INTO THE BASE REQUIRED.

DRILL & STUB 26 EA. #5 BARS @
10" LONG 12" C-C AROUND THE
PERIMETER OF THE MANHOLE FOR
FLANGE POUR. 5" MIN. PENETRATION
INTO THE BASE REQUIRED.

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 12"

Height (Int): 60"
Height (Ext): 72"

Weight (Net): 21919 lb
Volume (Net): 5.6cu.yd

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

Plant: Beaver Dam

7/21/2026 8:12:40 AM

Tech: J. Coppage

PC: T. Lewis



Structure ID: QL3

P1 MH084BAEVF

MH BASE w/FLANGE (12F/07EF)

P4) 60" x 54" - HATCH (CAST FLUSH) - 3"

P3) 84" - MH FLAT TOP w/60"x54" Hatch - 17"

P2) 84" - MH RISER - 90"

P1) 84" - MH BASE w/FLANGE (12F/07EF) - 60"

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

1) HATCH (Alum.) - HALLIDAY H2W 60"x54"

1) This Structure Includes a Cast-in Item - 60" x 54" Hatch

1) SECONDARY POUR - EXT FLANGE

2) 84" - Conseal CS-231 1.00" (Double)

2) PSX - 12M NYLO

1) PSX - 12-08 NYLO

1) PSX - 8QRS-S NYLO

100 lb

5152 lb

17186 lb

21919 lb

0 lb

263 lb

0 lb

0 lb

0 lb

16 lb

8 lb

6 lb

Structure Notes:

1. HALLIDAY H2W 60" X 54" HATCH BY ICAST.

2. HATCH TO BE CAST INTO THE TOP SLAB.

3. PER ASTM C478 SPECIFICATIONS.

4. CONCRETE = 4,500 PSI AT 28 DAYS.

5. NO STEPS

6. REINFORCING PER ASTM A615 (GRADE 60).

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

- RISER/WALLS (As .12)

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

WEIGHTS:

FIRST POUR - 19,550 LBS.

SECOND POUR - 2,369 LBS.

TOTAL - 21,919 LBS.

Structure Total: 44651 lb

Rim: 547.24'

Rim to Invert: 7.24'

Slack: 0.64"

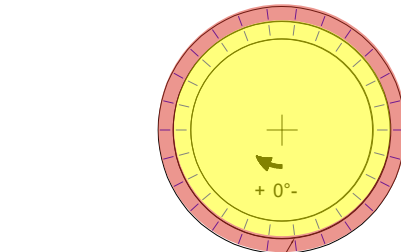
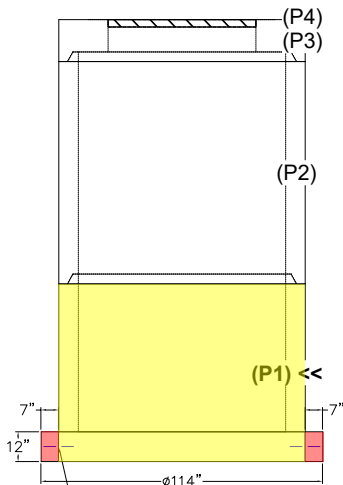
Sump: 80.76"

Step Position:

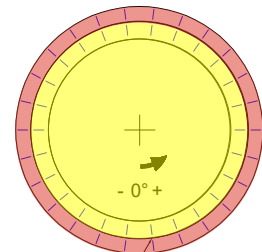
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

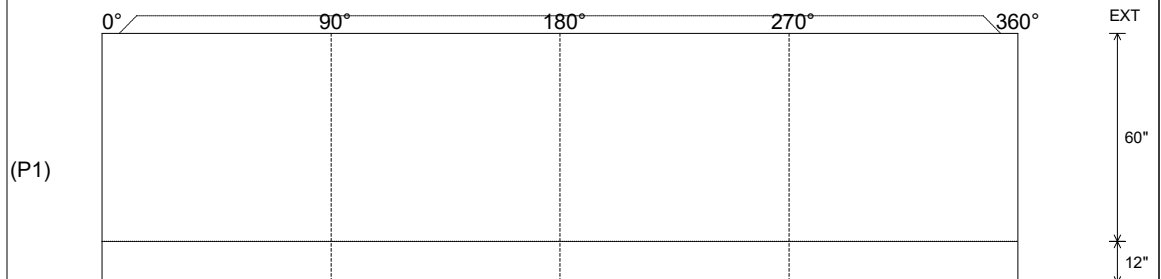


DRILL & STUB 26 EA. #5 BARS @
10" LONG 12" C-C AROUND THE
PERIMETER OF THE MANHOLE FOR
FLANGE POUR. 5" MIN. PENETRATION
INTO THE BASE REQUIRED.



DRILL & STUB 26 EA. #5 BARS @
10" LONG 12" C-C AROUND THE
PERIMETER OF THE MANHOLE FOR
FLANGE POUR. 5" MIN. PENETRATION
INTO THE BASE REQUIRED.

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 12"

Height (Int): 60"
Height (Ext): 72"

Weight (Net): 21919 lb
Volume (Net): 5.6cu.yd

Job Name: 25-3187 - Carter Caves WTP Upgrades Ph 3
Job Location: Olive Hill, KY
Contractor: Walker Principles

Plant: 100

7/6/2026 11:03:59 AM

Tech: J. Horsley

PC: E. Bradley



Structure ID: RAS/WAS WW

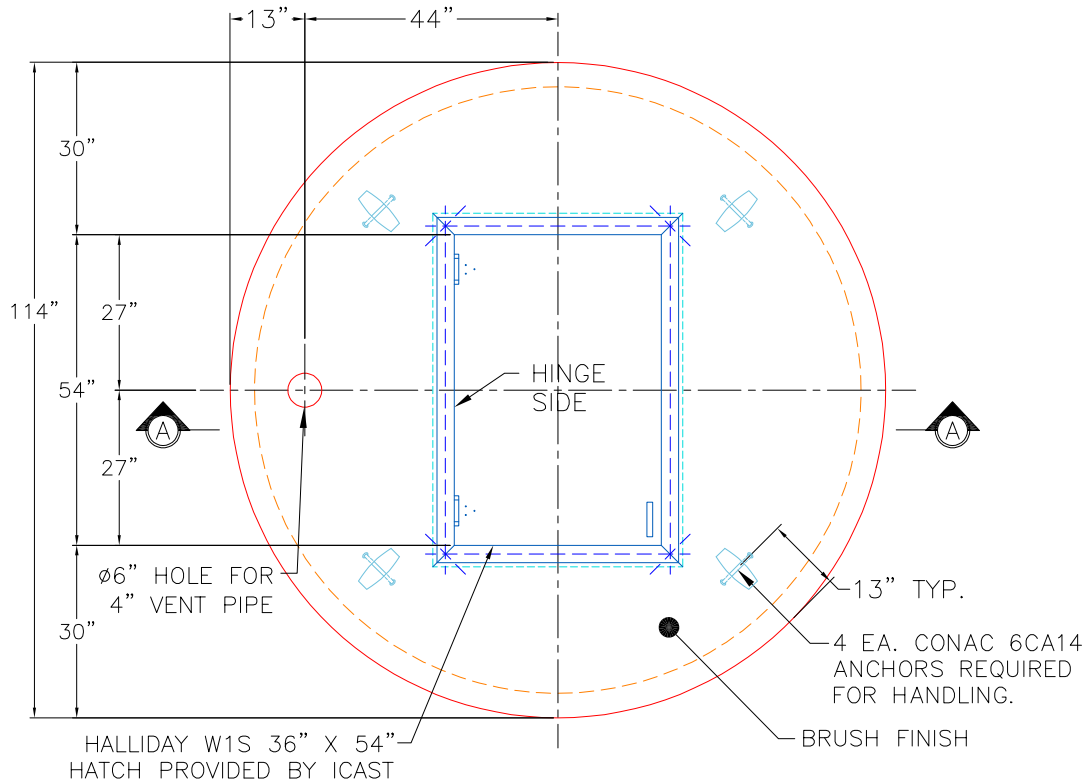
P5 MH096LD17SP

MH FLAT TOP w/36"x54" Hatch

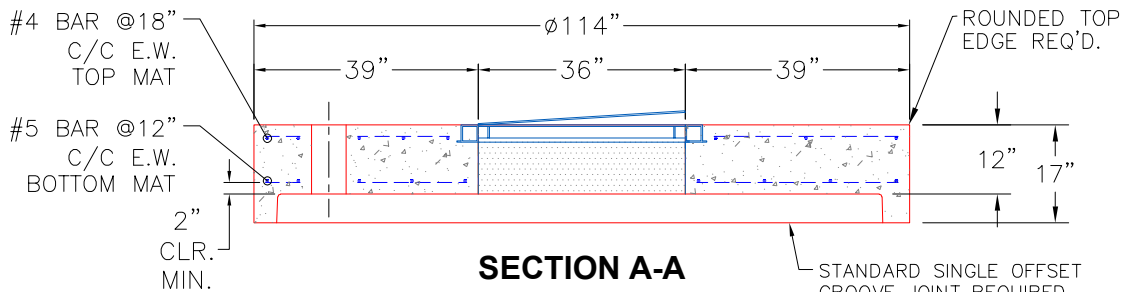
- P5) 96" - MH FLAT TOP w/36"x54" Hatch - 17"
P4) 96" - MH RISER Custom Ht - 88"
P3) 96" - MH RISER - 96"
P2) 96" - MH RISER - 96"
P1) 96" - MH SEPARATE BASE-T EXT. 14" (142" OD) - 12"
4) JOINT WRAP - 12" WD x 096" MAC WRAP
1) HATCH (Alum.) - HALLIDAY W1S 36"x54"
4) 96" - Conseal CS-231 1.00" (Double)
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



PLAN VIEW



SECTION A-A

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,500 PSI AT 28 DAYS.
3. REINFORCING: PER ASTM A615 (GRADE 60)
TOP LAYER: #4 BAR @ 18" C-C E.W.
BOTTOM LAYER: #5 BAR @ 12" C-C E.W.
4. WEIGHT: 8,969 LBS.
5. HATCH: HALLIDAY W1S 36" X 54" PROVIDED BY ICAST.
6. HATCH TO BE CAST INTO TOP OF LID.

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 9"

Height (Ext): 17"

Weight (Net): 8969 lb
Volume (Net): 2.29cu.yd

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

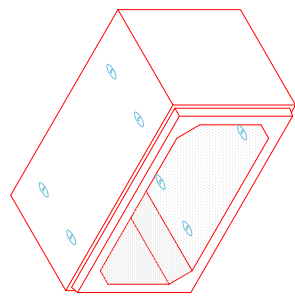
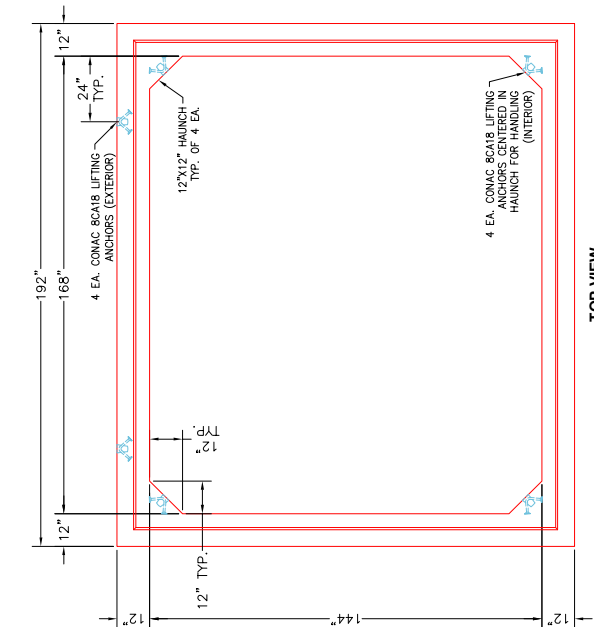
Plant: 100
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Tech: Jared - A
PC: E. Bradley

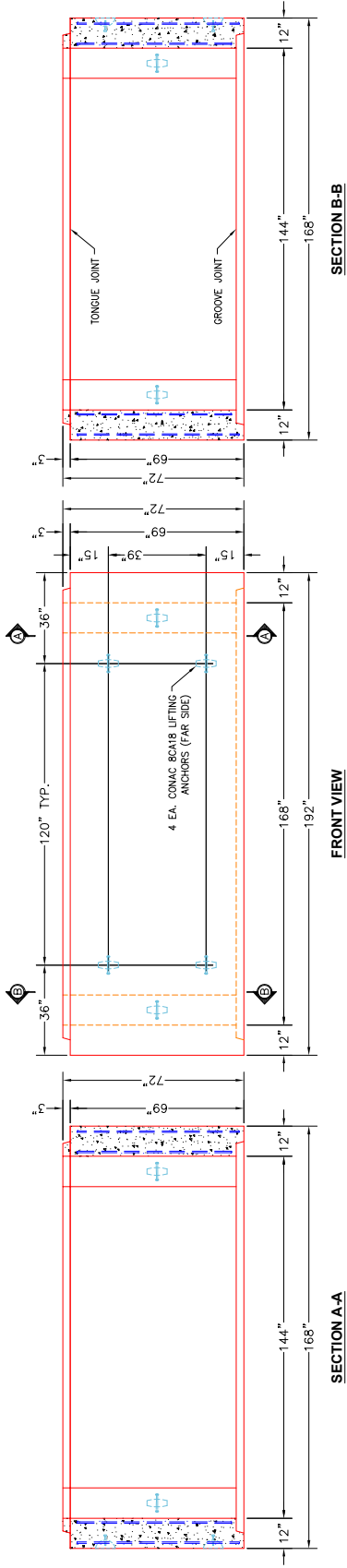
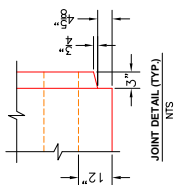


Structure ID: Box Culvert
P18 BC168144-12W12T12F-12H BOX CULVERT (12W/12F/12T) T/G

- NOTES:
- 1. BOX CULVERT IS DESIGNED PER ATTACHED PE STAMPED DRAWINGS & CALCULATIONS.
 - 2. LOAD REQUIREMENTS PER KY-HL93 (KY TABLE 1)
 - 3. COVER DEPTH = 15' - 0"
 - 4. CONCRETE: 5,000 PSI AT 28 DAYS.
 - 5. REINFORCING: AS SHOWN BY MATT CHILDS ENGINEERING.
 - 6. BOX CULVERT TO BE SEALED WITH CS-102 ROLL BUTYL MASTIC & CS-212 12" WRAP. (SUPPLIED BY ICAST).
 - 7. WEIGHT: 48,363 LBS.

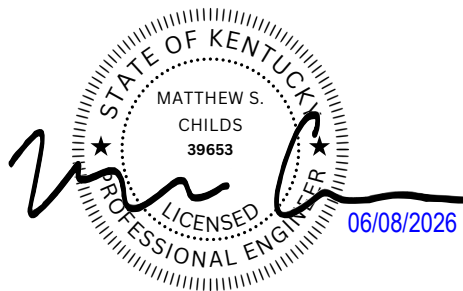


COMPONENT ISOMETRIC VIEW



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 12" Floor Height: 0"	Height (Int): 69" Height (Ext): 69"	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

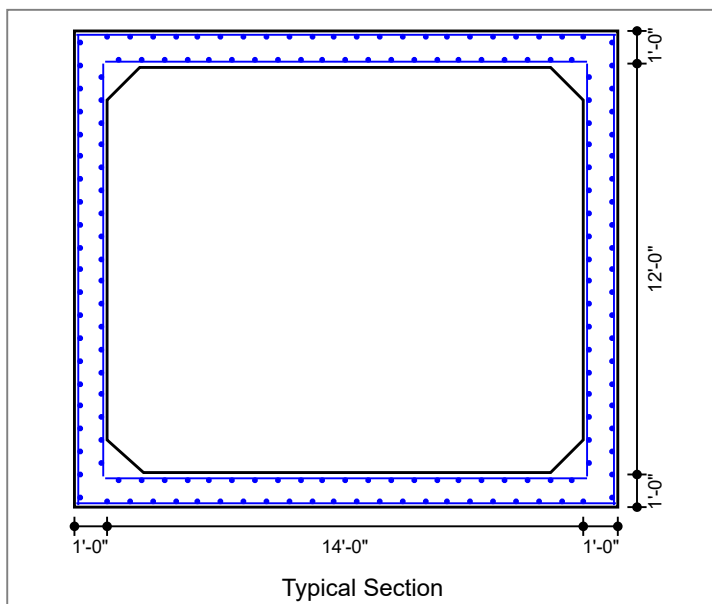
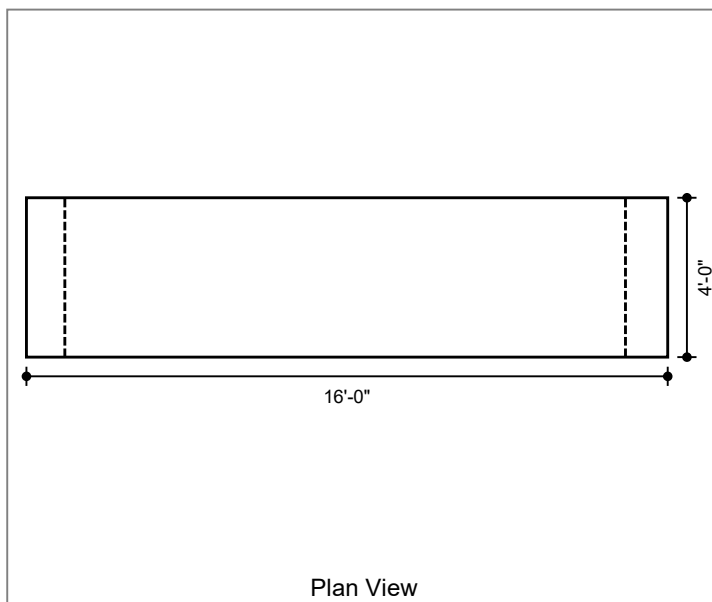
Loads

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 7:52:51 AM

Tech: J. Horsley

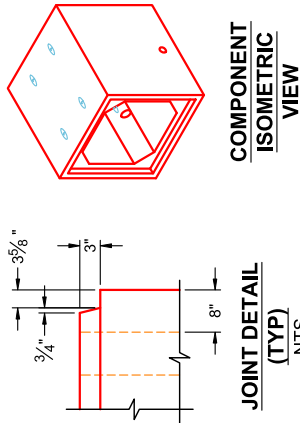
PC: C. Goff



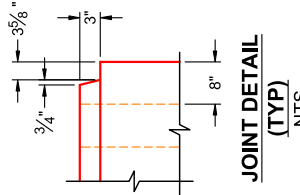
Structure ID: St. 45+00 (PC 15)

P1 BC048048-08WLF-9H

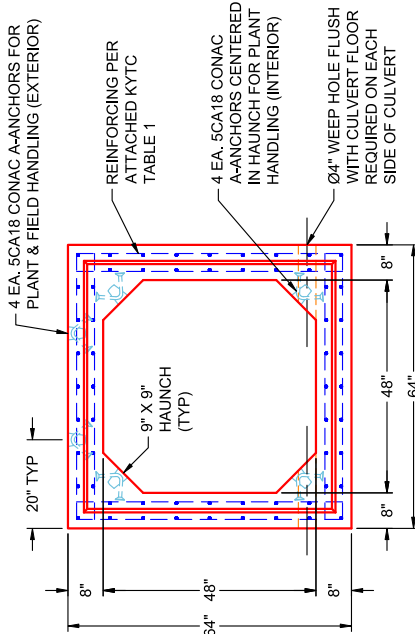
BOX CULVERT (08W/08F/08T) G/T



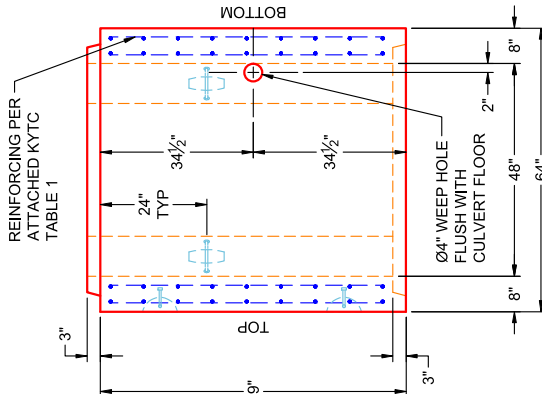
COMPONENT
ISOMETRIC
VIEW



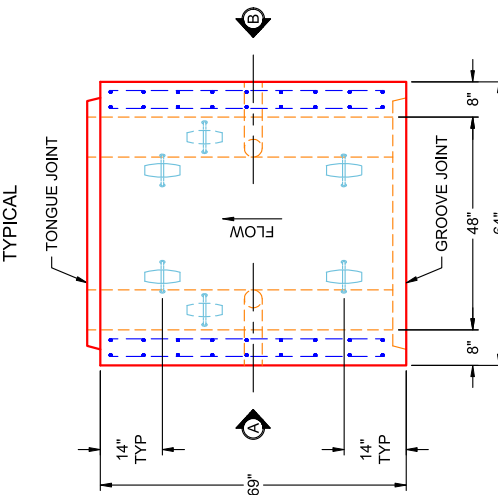
JOINT DETAIL
(TYP)
NTS



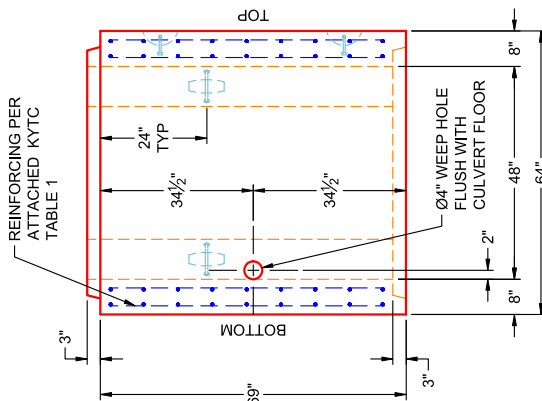
END VIEW
TYPICAL



VIEW B
PC 15
(UPRIGHT IN MOLD)



PLAN VIEW
PC 15
(UPRIGHT IN MOLD)



VIEW A
PC 15
(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 15)

ORDER NO: 24-1643B

PE: J.H. ROSS

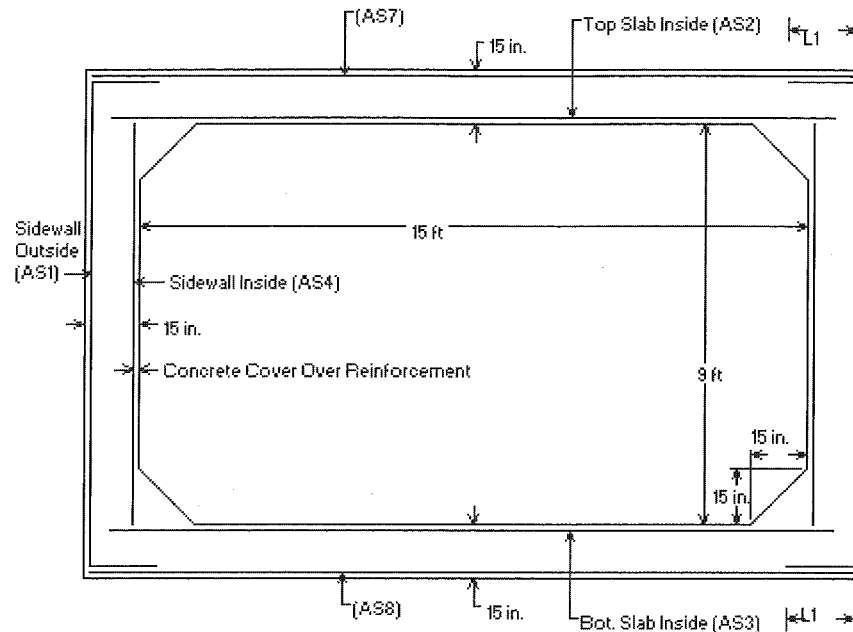
DRAWING: K. CARDWELL

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"

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

Plant: Beaver Dam, Ky.

Tech: N. Richards

7/21/2026 12:34:08 PM

PC: J. Jarvis



Structure ID: 5137+49 RT JB-A

P1 BX2424-08BA24

BOX BASE 8inW, 8inF

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

1074 lb
2455 lb
0 lb
0 lb
0 lb

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

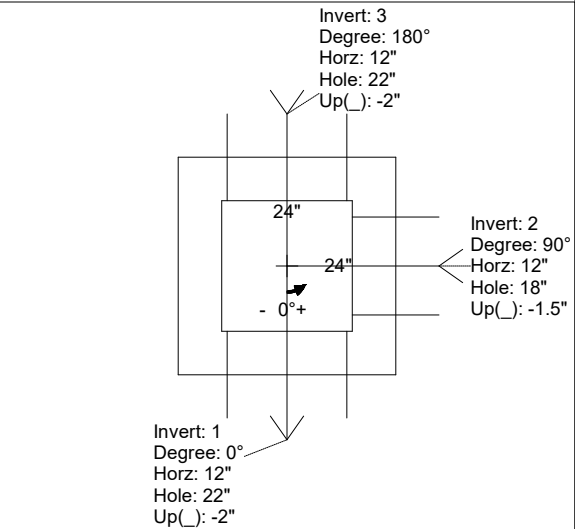
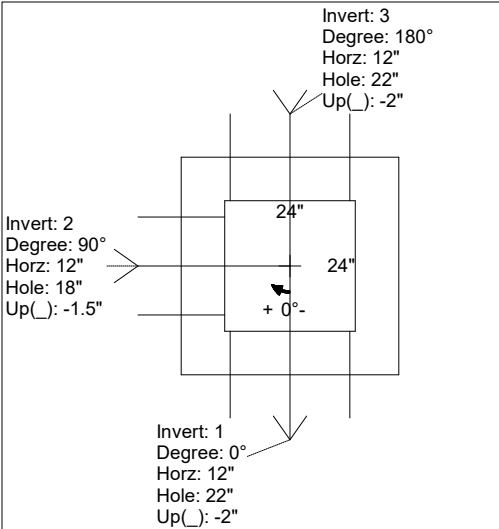
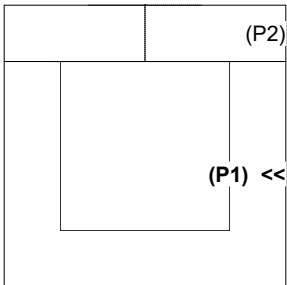
Structure Total: 3529 lb

Rim: 556' Rim to Invert: 2.76' Slack: 1.12" Sump: 0" Step Position:

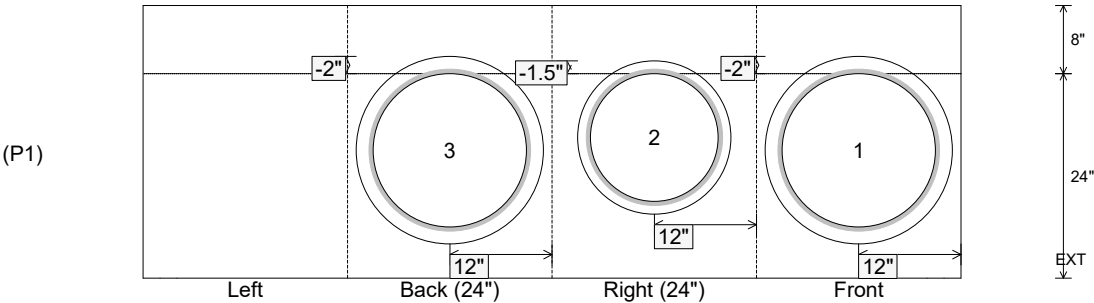
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	553.24'	0°	20"	18" CMP	19"	Hole 22	22"	22"	-2"	0"
Invert 2	553.24'	90°	20"	15" CMP	16"	Hole 18	18"	18"	-1.5"	0"
Invert 3	553.24'	180°	20"	18" CMP	19"	Hole 22	22"	22"	-2"	0"
Invert 4										
Invert 5										
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: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 24"
Height (Ext): 32"

Weight (Net): 2455 lb
Volume (Net): 0.63cu.yd

Job Name: 26-1733 - Liberty Power Station

Job Location: Liberty, KY

Contractor: Weddle Enterprises, Inc

Plant: 100

7/20/2026 8:42:59 AM

Tech: Jared - F

PC: T. Ryan



Structure ID: OCS

P3 BX4848-08RVF

BOX RISER 8inW, Variable Ht

P4) 48" x 48" - CASTING HEIGHT - 0"

P3) 48" x 48" - BOX RISER 8inW, Variable Ht - 12"

P2) 48" x 48" - BOX RISER 8inW, Variable Ht - 60"

P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht - 36"

3) 48" x 48" - Conseal CS-102 1.00"

1) Hole - 26

2) Orifice - 5"

0 lb

1804 lb

8996 lb

7807 lb

0 lb

0 lb

0 lb

Structure Total: 18607 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. NO STEPS AND NO INVERT CHANNEL.

4. CASTING SUPPLIED BY OTHERS.

5. TRASHRACK SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).

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

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

Rim: 1073'

Rim to Invert: 8.5'

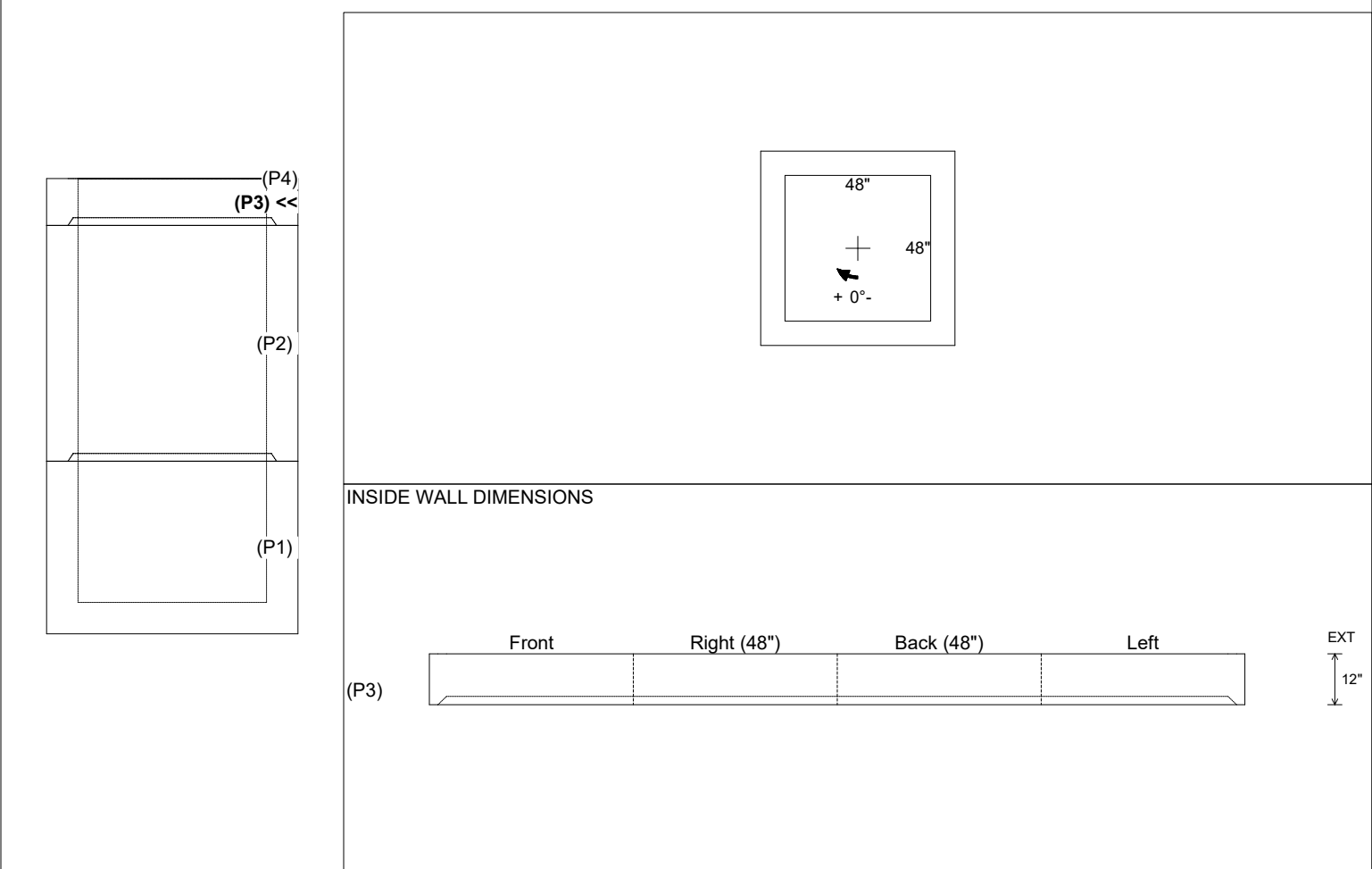
Slack: 0"

Sump: 6"

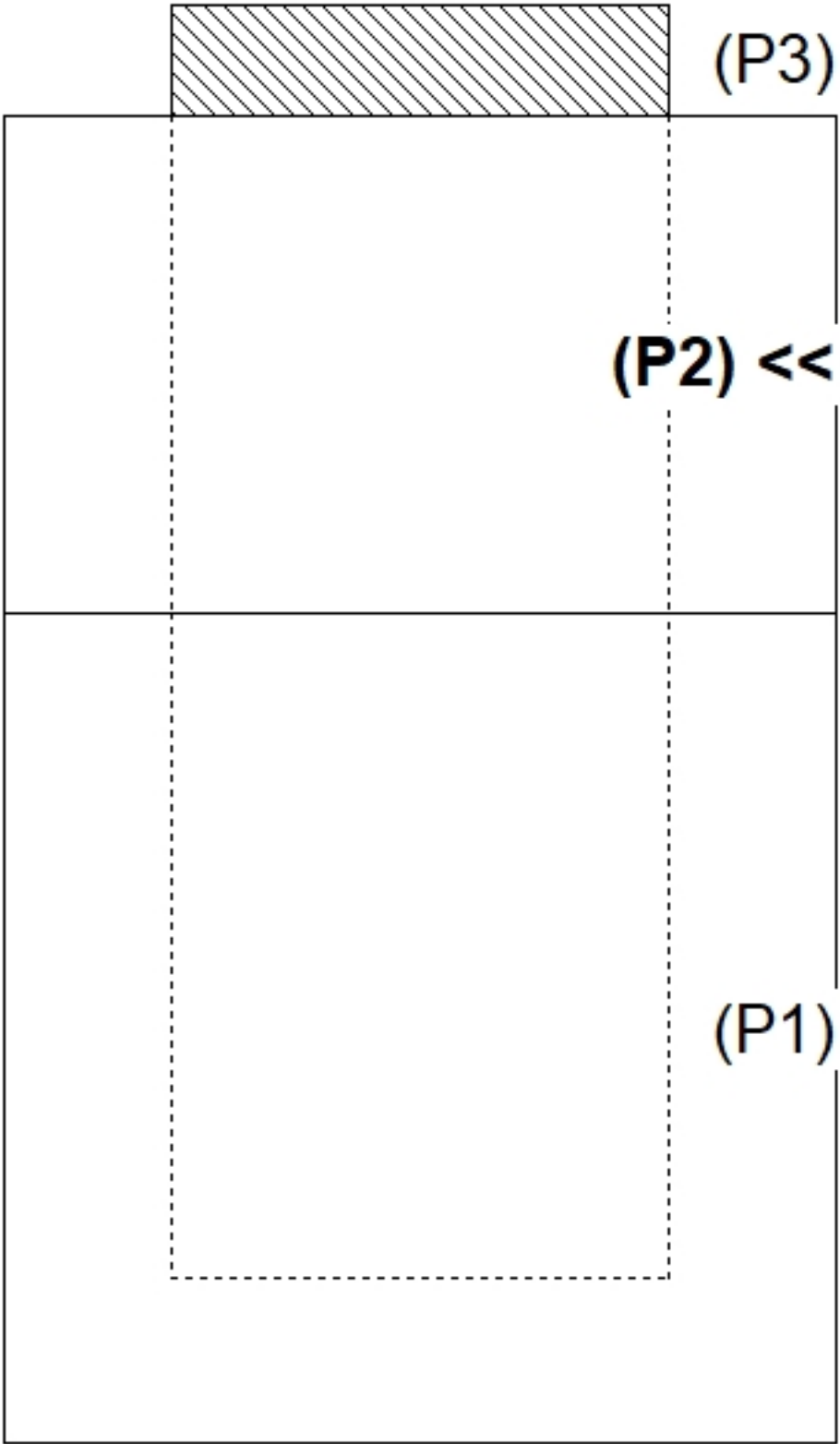
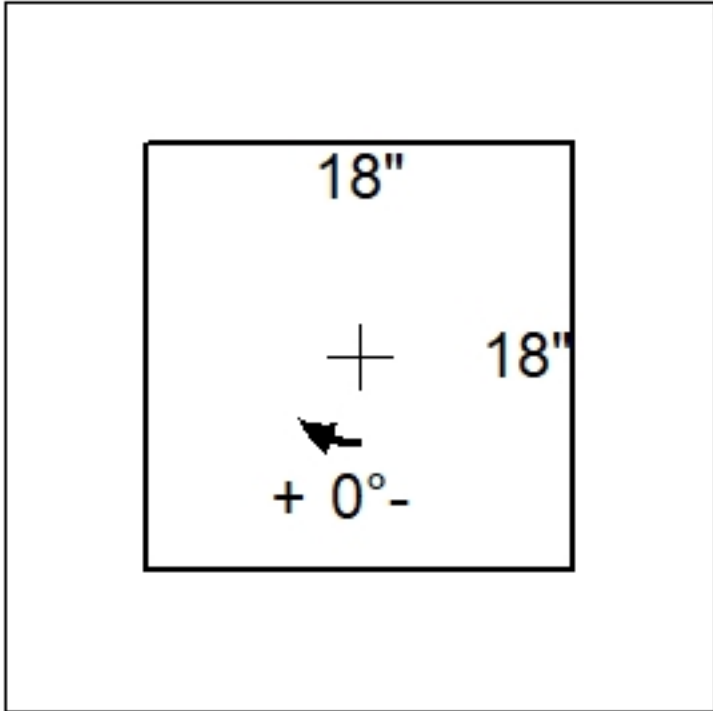
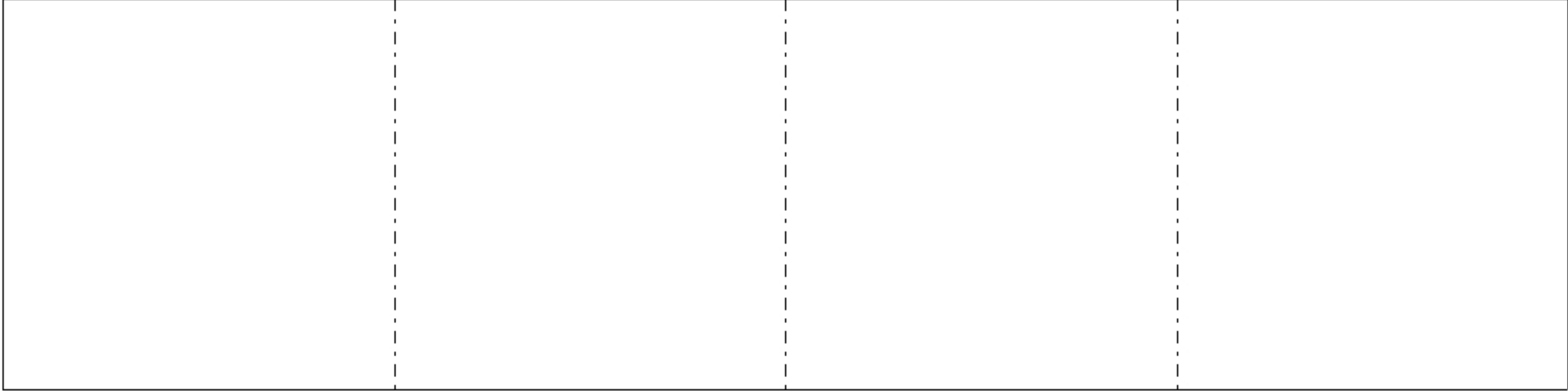
Step Position:

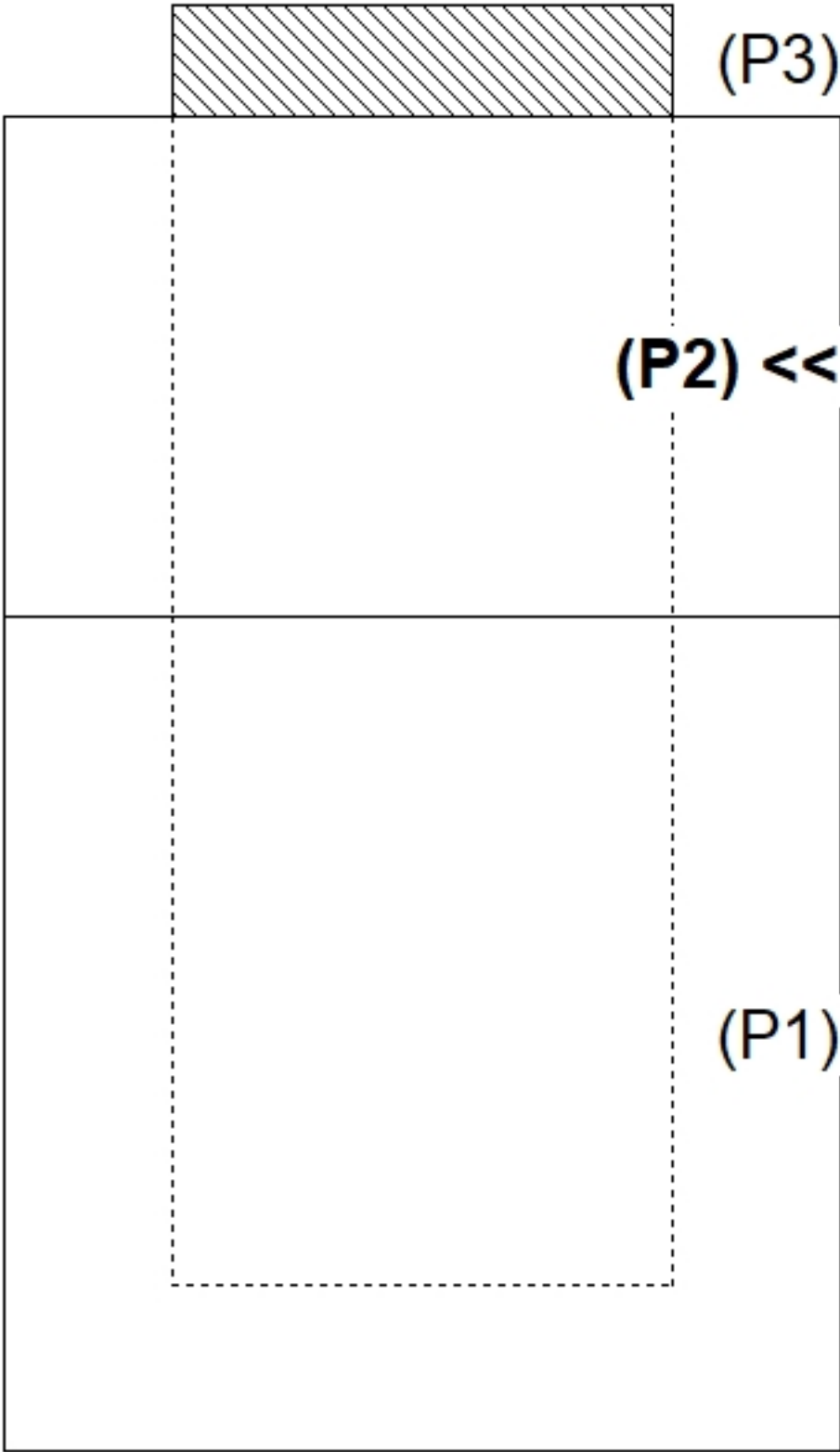
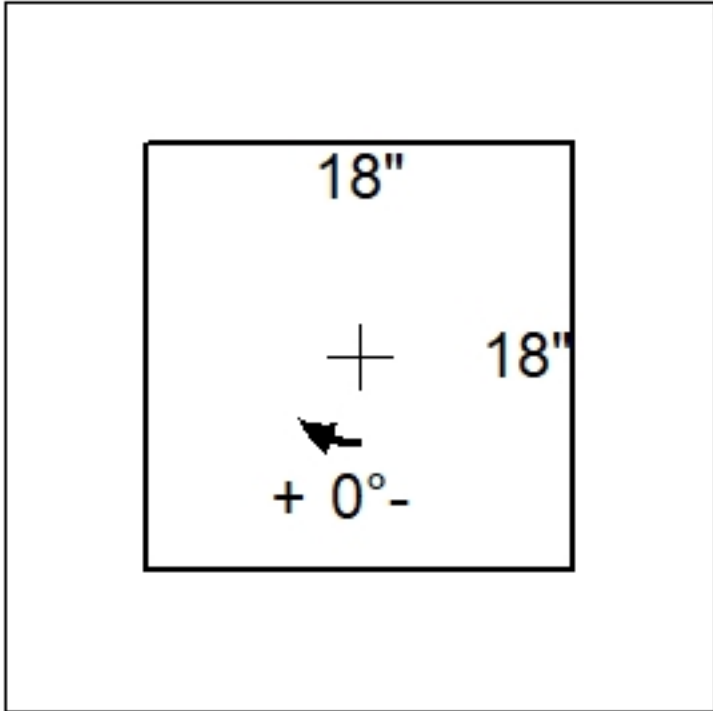
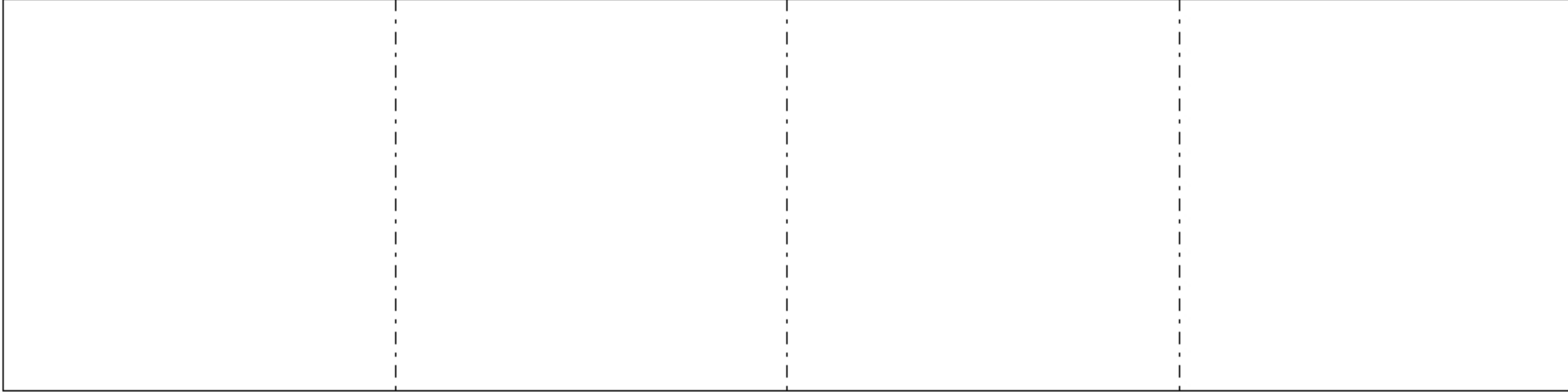
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



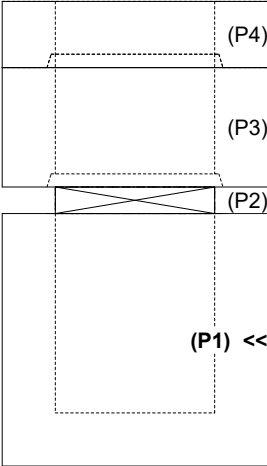
Coating (Int):	Seam Up: Flat	Wall Thickness: 8"	Height (Int): 12"	Weight (Net): 1804 lb
Coating (Ext):	Seam Dn: Groove	Floor Height: 0"	Height (Ext): 12"	Volume (Net): 0.46cu.yd

Job Name: 26-2119 512 W Kingston Ave MSD Job Location: Louisville, KY Contractor: TRC, LLC					Plant: Beaver Dam 7/16/2026 3:43:39 PM		Tech: S. Felletter PC: T. Lewis				
Structure ID: QL3 ST-CB 7											
P2		BX1818-06R18			BOX RISER 6inW F/F						
P3) 18" x 18" - CASTING HEIGHT - 4" P2) 18" x 18" - BOX RISER 6inW F/F - 18" P1) 18" x 18" - KNOCKOUT BASE 6"W/F - STOCK F/n - 24" 1) CASTING - HOE 165A F/G 2) 18" x 18" - Conseal CS-102 1.00"						0 lb 870 lb 1613 lb 138 lb 0 lb ----- 2621 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 165-A F/G). . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 3.833' Rim to Invert: 0' Slack: 0" Sump: 46" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (┘)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
(P2)		FrontRight (18")Back (18")Left				18"					
											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 6" Floor Height: 0"		Height (Int): 18" Height (Ext): 18"		Weight (Net): 870 lb Volume (Net): 0.22cu.yd	

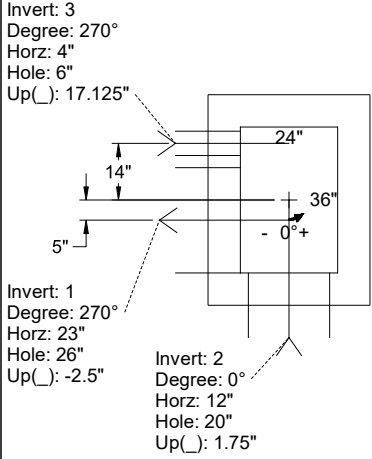
Job Name: 26-2119 512 W Kingston Ave MSD					Plant: Beaver Dam		Tech: S. Felletter				
Job Location: Louisville, KY					7/16/2026 3:43:39 PM		PC: T. Lewis				
Contractor: TRC, LLC											
Structure ID: QL3 ST-CB 6											
P2 BX1818-06R18 BOX RISER 6inW F/F											
P3) 18" x 18" - CASTING HEIGHT - 4" P2) 18" x 18" - BOX RISER 6inW F/F - 18" P1) 18" x 18" - KNOCKOUT BASE 6"W/F - STOCK F/n - 24" 1) CASTING - HOE 165A F/G 2) 18" x 18" - Conseal CS-102 1.00"						0 lb 870 lb 1613 lb 138 lb 0 lb ----- 2621 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 165-A F/G). . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 3.833' Rim to Invert: 0' Slack: 0" Sump: 46" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
 											
INSIDE WALL DIMENSIONS											
Front Right (18") Back (18") Left  EXT 18"											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 6" Floor Height: 0"		Height (Int): 18" Height (Ext): 18"		Weight (Net): 870 lb Volume (Net): 0.22cu.yd	

Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018) Job Location: Hopkinsville, KY Contractor: Scotty's Contracting & Stone, LLC					Plant: Beaver Dam 6/26/2026 7:35:45 AM		Tech: J. Horsley PC: C. Goff				
Structure ID: 206											
P1 BX2436-08BA30 BOX BASE 8inW, 8inF F/n											
P4) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10" P3) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18" P2) 24" x 36" - FIELD ADJUSTMENT - 4" P1) 24" x 36" - BOX BASE 8inW, 8inF F/n - 30" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast) 2) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 26 1) Hole - 20 1) Hole - 6						3398 lb 5270 lb 0 lb 3960 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 12834 lb		Structure Notes: ** KYTC STATE PROJECT ** STATION: 412+00 LT 1. PER KYTC CBI TYPE A / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP			
Rim: 564.04' Rim to Invert: 5.21' Slack: 0.52" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	558.83'	270°	31"	18" RCP B WALL	23"	Hole 26	26"	26"	-2.5"	5"	
Invert 2	559.08'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	1.75"	0"	
Invert 3	560.29'	270°	12"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	17.125"	-14"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

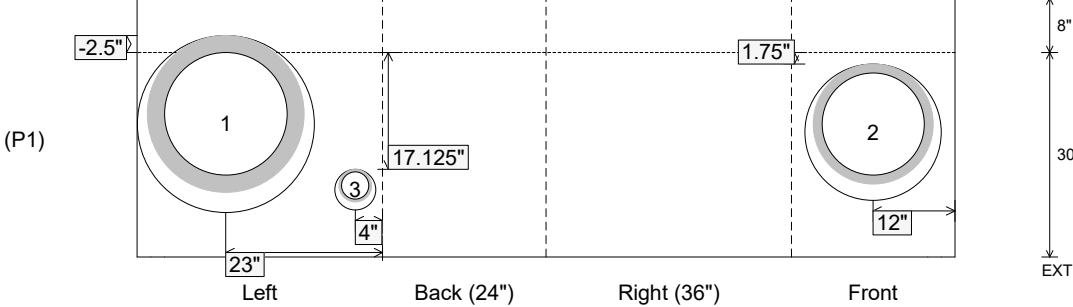
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



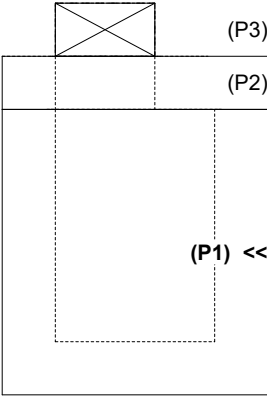
INSIDE WALL DIMENSIONS



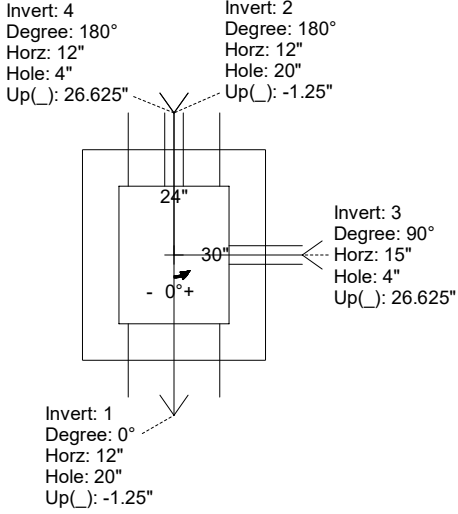
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 3960 lb Volume (Net): 1.01cu.yd
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Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018) Job Location: Hopkinsville, KY Contractor: Scotty's Contracting & Stone, LLC					Plant: Beaver Dam 6/26/2026 7:35:34 AM		Tech: J. Horsley PC: C. Goff				
Structure ID: 109											
P1 BX24300808VF BOX BASE 8inW, 8inF, Variable Ht F/n											
P3) 15" x 27" - P.I.P. - BY OTHERS - 8" P2) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8" P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht F/n - 35" 1) CASTING - HOE KY-230-G F/G (GRADE) 1) 24" x 30" - Conseal CS-102 1.00" 2) Hole - 20 2) Hole - 4						0 lb 963 lb 4086 lb 237 lb 0 lb 0 lb 0 lb ----- 0 lb Structure Total: 5286 lb		Structure Notes: ** KYTC STATE PROJECT ** STATION: 406+75 RT 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-230G FRAME & GRATE SUPPLIED BY ICAST - POURED IN PLACE BY OTHERS			
Rim: 564.06' Rim to Invert: 4.28' Slack: 0.36" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	559.78'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-1.25"	0"	
Invert 2	559.78'	180°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-1.25"	0"	
Invert 3	562'	90°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	26.625"	0"	
Invert 4	562'	180°	20"	4" WEEP HOLE	4"	Hole 4	4"	4"	26.625"	0"	
Invert 5											
Invert 6											
Invert 7											
Invert 8											

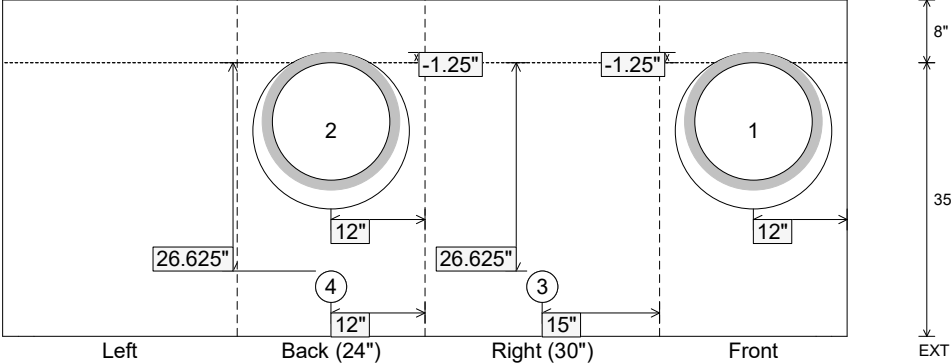
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

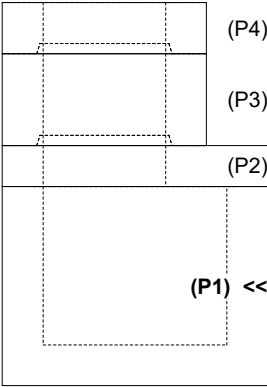


INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 35" Height (Ext): 43"	Weight (Net): 4086 lb Volume (Net): 1.04cu.yd
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Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018) Job Location: Hopkinsville, KY Contractor: Scotty's Contracting & Stone, LLC				Plant: Beaver Dam 6/26/2026 7:35:56 AM		Tech: J. Horsley PC: C. Goff				
Structure ID: 217										
P1		BX3636-08BAVF		BOX BASE 8inW, 8inF, Variable Ht F/n						
P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10" P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18" P2) 36" x 36" - CB TRANSITION SLAB 24"X36" HOLE T/F - 8" P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 31" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast) 1) 36" x 36" - Conseal CS-102 1.00" 1) 24" x 36" - Conseal CS-102 1.00" 1) DOGHOUSE INVRTD - 30"x32.75" 1) Hole - 20 1) Hole - 24 1) Hole - 22 1) Hole - 6				3400 lb 5270 lb 1235 lb 4149 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 14260 lb		Structure Notes: ** KYTC STATE PROJECT ** STATION: 418+00 RT 1. PER KYTC CBI TYPE A / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAT - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP 5. LIFTERS INSTALLED IN FLOOR				
Rim: 555.33'		Rim to Invert: 5.6'		Slack: 0.2"		Sump: 0"		Step Position:		
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	549.73'	180°	26"	24" HDPE	27.8"	DOGHOUSE INVRTD 30"x32.75"	30" x 32.75"	30"	-1.875"	0"
Invert 2	550.41'	270°	26"	15" HDPE	17.6"	Hole 20	20"	20"	6.875"	0"
Invert 3	550.11'	0°	26"	18" HDPE	21.2"	Hole 24	24"	24"	3"	0"
Invert 4	550.33'	90°	31"	15" RCP B WALL	19.5"	Hole 22	22"	22"	5"	5"
Invert 5	551.5'	90°	11"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	20.875"	-15"
Invert 6										
Invert 7										
Invert 8										



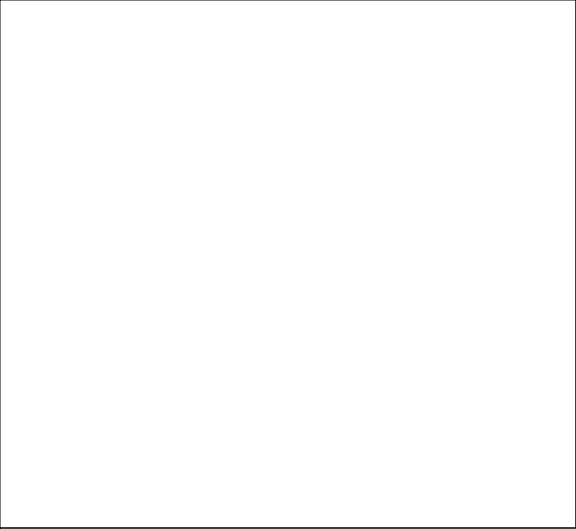
(P4)

(P3)

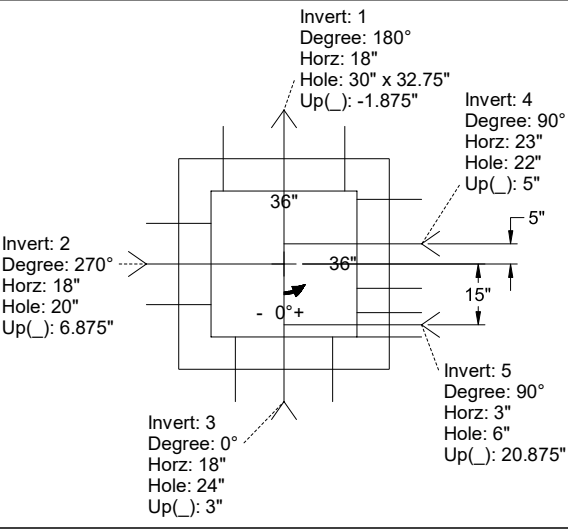
(P2)

(P1) <<

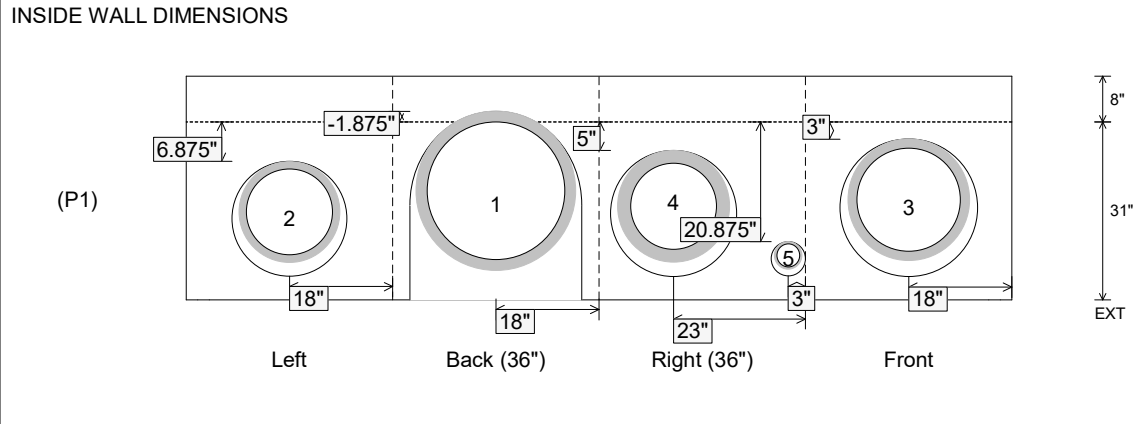
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



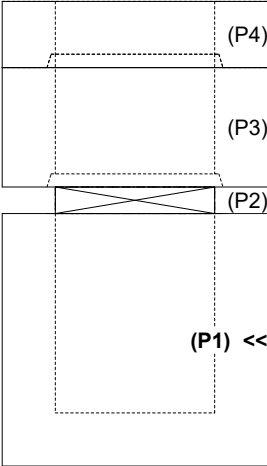
INSIDE WALL DIMENSIONS



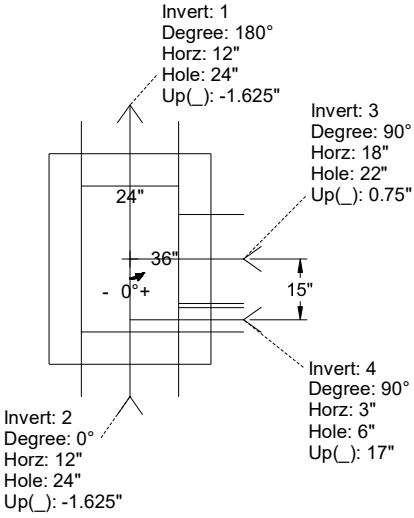
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 31" Height (Ext): 39"	Weight (Net): 4149 lb Volume (Net): 1.06cu.yd
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Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018) Job Location: Hopkinsville, KY Contractor: Scotty's Contracting & Stone, LLC				Plant: Beaver Dam 6/26/2026 7:35:53 AM		Tech: J. Horsley PC: C. Goff						
Structure ID: 213												
P1 BX2436-08BA30				BOX BASE 8inW, 8inF F/n								
P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10" P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18" P2) 24" x 36" - FIELD ADJUSTMENT - 4" P1) 24" x 36" - BOX BASE 8inW, 8inF F/n - 30" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast) 2) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 22 1) Hole - 6						3400 lb 5270 lb 0 lb 3780 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 12655 lb		Structure Notes: ** KYTC STATE PROJECT ** STATION: 416+00 RT 1. PER KYTC CBI TYPE A / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP				
Rim: 558.18'				Rim to Invert: 5.2'		Slack: 0.4"		Sump: 0"		Step Position:		
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	552.98'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"		
Invert 2	552.98'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"		
Invert 3	553.23'	90°	26"	15" RCP B WALL	19.5"	Hole 22	22"	22"	0.75"	0"		
Invert 4	554.43'	90°	11"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	17"	-15"		
Invert 5												
Invert 6												
Invert 7												
Invert 8												

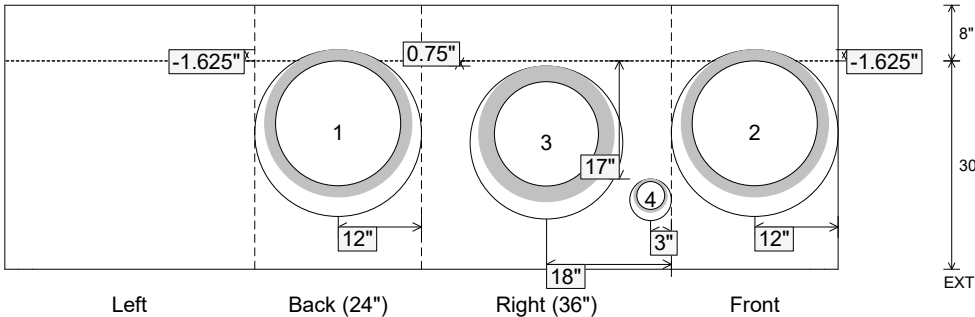
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



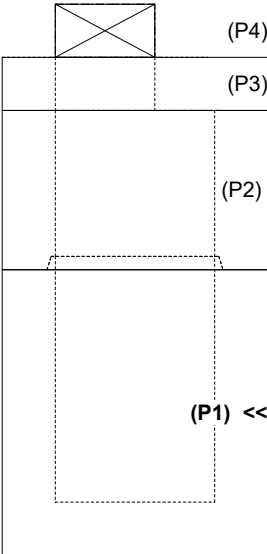
INSIDE WALL DIMENSIONS



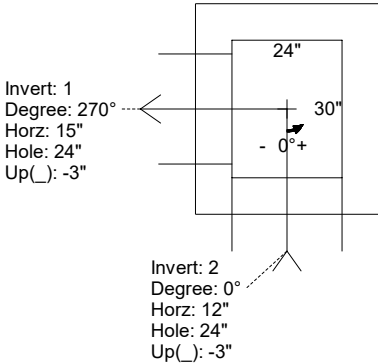
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 3780 lb Volume (Net): 0.96cu.yd
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Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100 6/5/2026 9:03:55 AM		Tech: Jared - A PC: J. Jarvis				
Structure ID: 539											
P1 BX24300808VF BOX BASE 8inW, 8inF, Variable Ht T/n											
P4) 15" x 27" - P.I.P. - BY OTHERS - 8" P3) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8" P2) 24" x 30" - BOX RISER 8inW F/G - 24" P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht T/n - 35" 1) CASTING - HOE KY-230-G F/G (GRADE) 2) 24" x 30" - Conseal CS-102 1.00" 1) 15" x 27" - Conseal CS-102 1.00" 2) Hole - 24 2) Hole - 4						0 lb 963 lb 2239 lb 3993 lb 237 lb 0 lb 0 lb 0 lb 0 lb ----- 7432 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC DBI TY 13G / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. NO STORM INVERT 5. NO STEPS 6. KY-230G FRAME & GRATE SUPPLIED BY ICAST - POURED IN PLACE BY OTHERS			
Rim: 836.53' Rim to Invert: 6.31' Slack: 0.72" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	830.22'	270°	23"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"	
Invert 2	830.22'	0°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

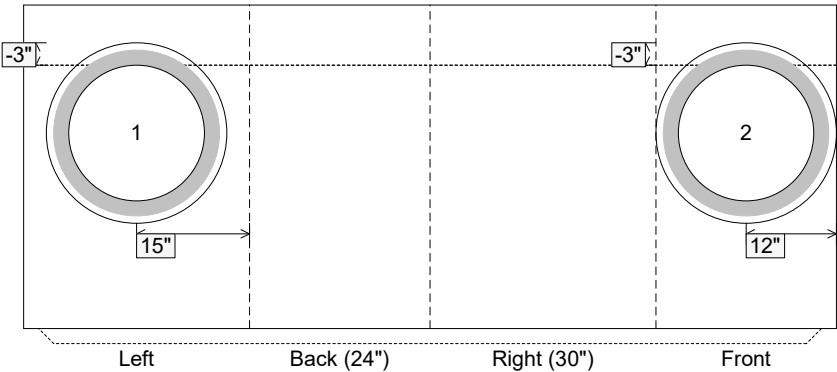
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 35" Height (Ext): 43"	Weight (Net): 3993 lb Volume (Net): 1.02cu.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 8:23:16 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: AD-3

P1 BX3232-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

- P2) 32" x 32" - RECESS/GRATE SEAT - 2"
P1) 32" x 32" - BOX BASE 8inW, 8inF, Variable Ht - 43"
1) CASTING - JBS 4200 Grate
1) 32" x 32" - Conseal CS-102 1.00"
1) Hole - 32

Structure Total: 6219 lb

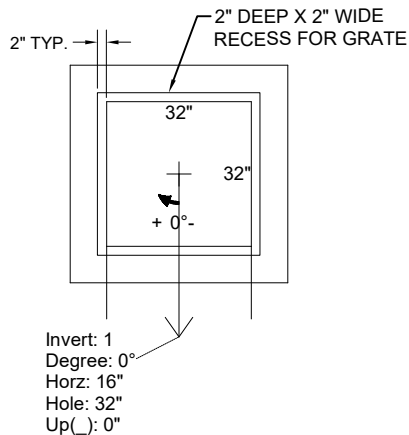
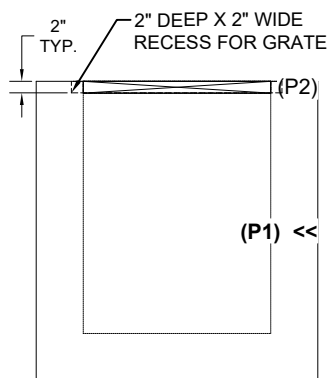
- Structure Notes:
1. PER TDOT D-CB-42S / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. JBS 4200 GRATE BY ICAST
4. 2" WD x 2" DEEP GRATE SEAT/RECESS IN TOP OF WALLS.
5. REINFORCING PER ASTM A615 (GRADE 60).
** SEE TDOT STD DRAWING D-CB-42S **
- WALLS (As .62) #5 BARS AT 6" C.C.E.W.
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

Rim: 788.4' Rim to Invert: 3.4' Slack: 0.8" Sump: 3" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	785'	0°	24"	24" RCP B WALL	30"	Hole 32	32"	32"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

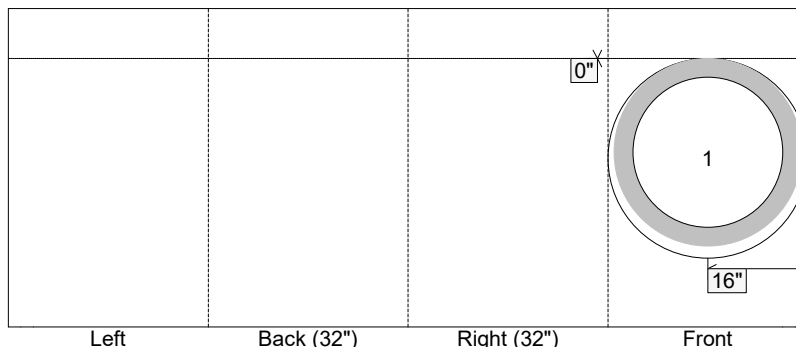
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

(P1)



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

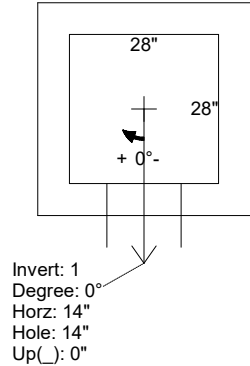
Wall Thickness: 8"
Floor Height: 8"

Height (Int): 43"
Height (Ext): 51"

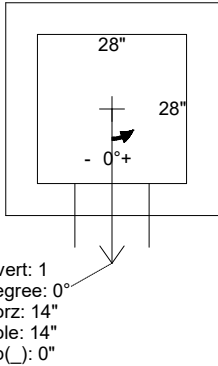
Weight (Net): 5760 lb
Volume (Net): 1.47cu.yd

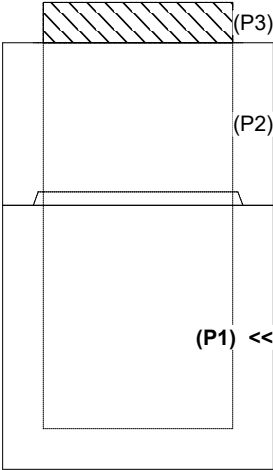
Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply				Plant: 100 6/15/2026 10:58:59 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: B3 ST-CB										
P1 BX28280606VH				BOX BASE 6inW, 6inF, Variable Ht T/n						
P3) 28" x 28" - CASTING HEIGHT - 6" P2) 28" x 28" - BOX RISER 6inW F/G - 24" P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht T/n - 33" 2) 28" x 28" - Conseal CS-102 1.00" 1) Hole - 14"						0 lb 1643 lb 2988 lb 0 lb 0 lb ----- 0 lb Structure Total: 4631 lb		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING SUPPLIED BY OTHERS (JBS 4300 F/G). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.		
Rim: 428.12' Rim to Invert: 5.26' Slack: 0.876" Sump: 0.756" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	422.86'	0°	20"	10" HDPE	11.4"	Hole 14	14"	14"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

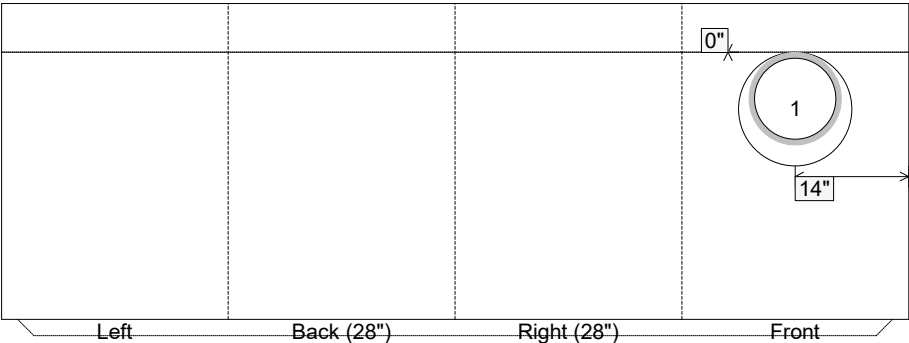


UPSIDE-DOWN VIEW (int. dimensions)





INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 33" Height (Ext): 39"	Weight (Net): 2988 lb Volume (Net): 0.76cu.yd
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Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

7/21/2026 8:50:13 AM

Tech: S. Felletter

PC: A. Chambers



Structure ID: QL18

P4 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
P16) 28" x 28" - GRADE RING 6"W F/F - 4"
P15) 28" x 28" - GRADE RING 6"W F/F - 4"
P14) 28" x 28" - GRADE RING 6"W F/F - 4"
P13) 28" x 28" - GRADE RING 6"W F/F - 4"
P12) 28" x 28" - GRADE RING 6"W F/F - 4"
P11) 28" x 28" - GRADE RING 6"W F/F - 4"
P10) 28" x 28" - GRADE RING 6"W F/F - 4"
P9) 28" x 28" - GRADE RING 6"W F/F - 4"
P8) 28" x 28" - GRADE RING 6"W F/F - 4"
P7) 28" x 28" - GRADE RING 6"W F/F - 4"
P6) 28" x 28" - GRADE RING 6"W F/F - 4"
P5) 28" x 28" - GRADE RING 6"W F/F - 4"
P4) 28" x 28" - GRADE RING 6"W F/F - 4"
P3) 28" x 28" - GRADE RING 6"W F/F - 4"
P2) 28" x 28" - GRADE RING 6"W F/F - 4"
P1) 28" x 28" - GRADE RING 6"W F/F - 4"

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Structure Notes:

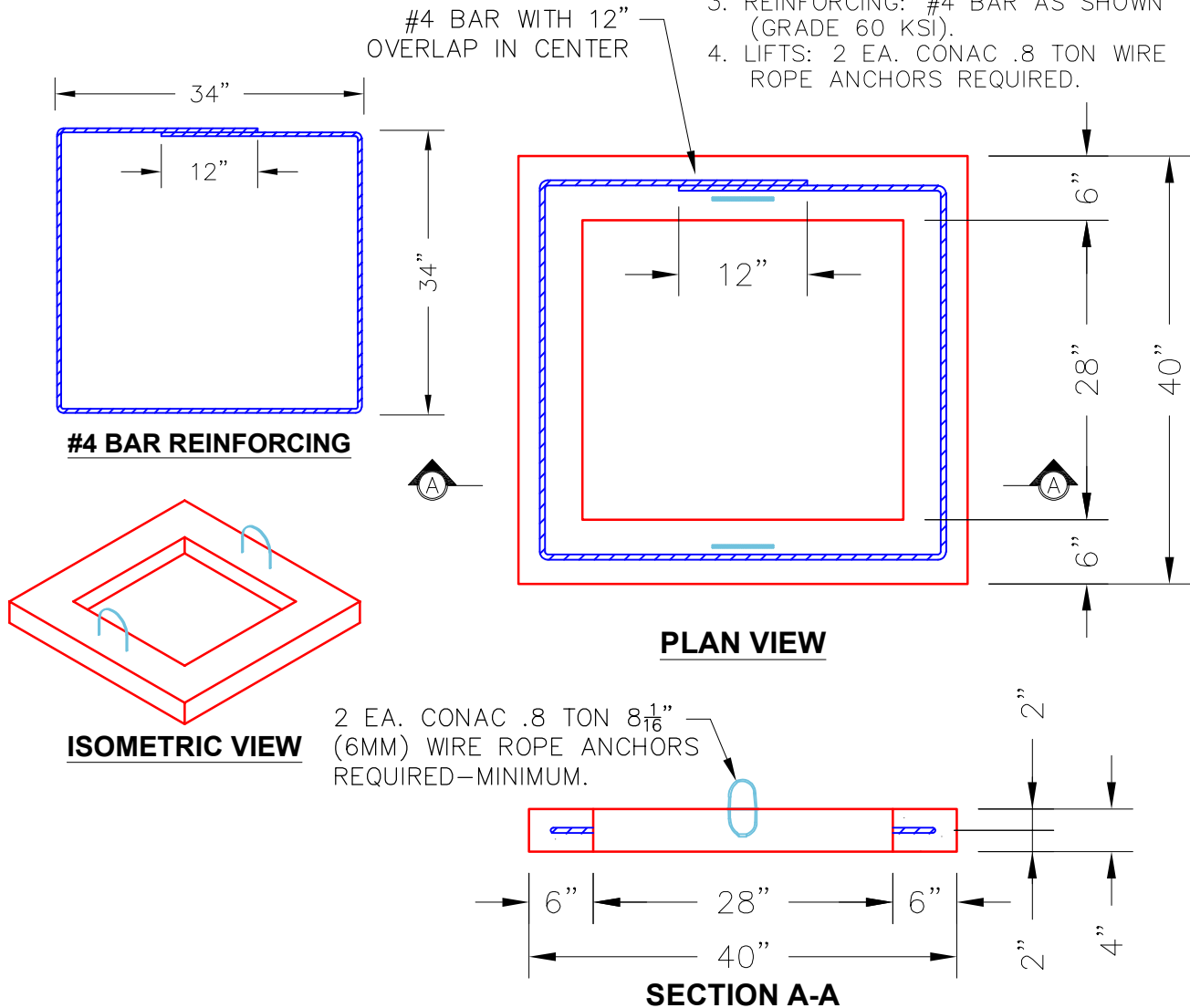
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

Tech: S. Felletter

7/21/2026 8:50:13 AM

PC: A. Chambers



Structure ID: QL18

P5 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
P16) 28" x 28" - GRADE RING 6"W F/F - 4"
P15) 28" x 28" - GRADE RING 6"W F/F - 4"
P14) 28" x 28" - GRADE RING 6"W F/F - 4"
P13) 28" x 28" - GRADE RING 6"W F/F - 4"
P12) 28" x 28" - GRADE RING 6"W F/F - 4"
P11) 28" x 28" - GRADE RING 6"W F/F - 4"
P10) 28" x 28" - GRADE RING 6"W F/F - 4"
P9) 28" x 28" - GRADE RING 6"W F/F - 4"
P8) 28" x 28" - GRADE RING 6"W F/F - 4"
P7) 28" x 28" - GRADE RING 6"W F/F - 4"
P6) 28" x 28" - GRADE RING 6"W F/F - 4"
P5) 28" x 28" - GRADE RING 6"W F/F - 4"
P4) 28" x 28" - GRADE RING 6"W F/F - 4"
P3) 28" x 28" - GRADE RING 6"W F/F - 4"
P2) 28" x 28" - GRADE RING 6"W F/F - 4"
P1) 28" x 28" - GRADE RING 6"W F/F - 4"

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Structure Notes:

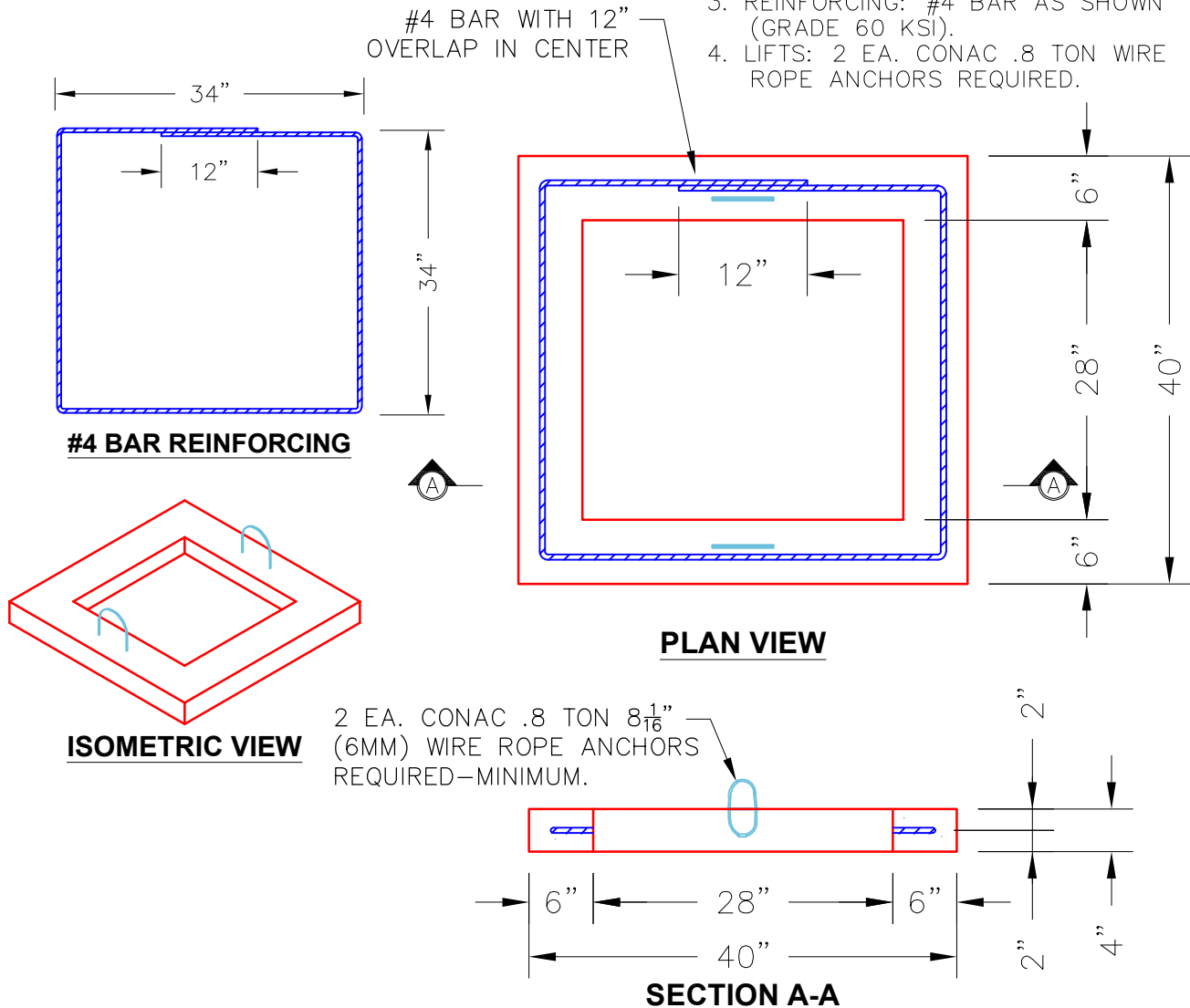
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

7/21/2026 8:50:14 AM

Tech: S. Felletter

PC: A. Chambers



Structure ID: QL18

P6 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
P16) 28" x 28" - GRADE RING 6"W F/F - 4"
P15) 28" x 28" - GRADE RING 6"W F/F - 4"
P14) 28" x 28" - GRADE RING 6"W F/F - 4"
P13) 28" x 28" - GRADE RING 6"W F/F - 4"
P12) 28" x 28" - GRADE RING 6"W F/F - 4"
P11) 28" x 28" - GRADE RING 6"W F/F - 4"
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P8) 28" x 28" - GRADE RING 6"W F/F - 4"
P7) 28" x 28" - GRADE RING 6"W F/F - 4"
P6) 28" x 28" - GRADE RING 6"W F/F - 4"
P5) 28" x 28" - GRADE RING 6"W F/F - 4"
P4) 28" x 28" - GRADE RING 6"W F/F - 4"
P3) 28" x 28" - GRADE RING 6"W F/F - 4"
P2) 28" x 28" - GRADE RING 6"W F/F - 4"
P1) 28" x 28" - GRADE RING 6"W F/F - 4"

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Structure Notes:

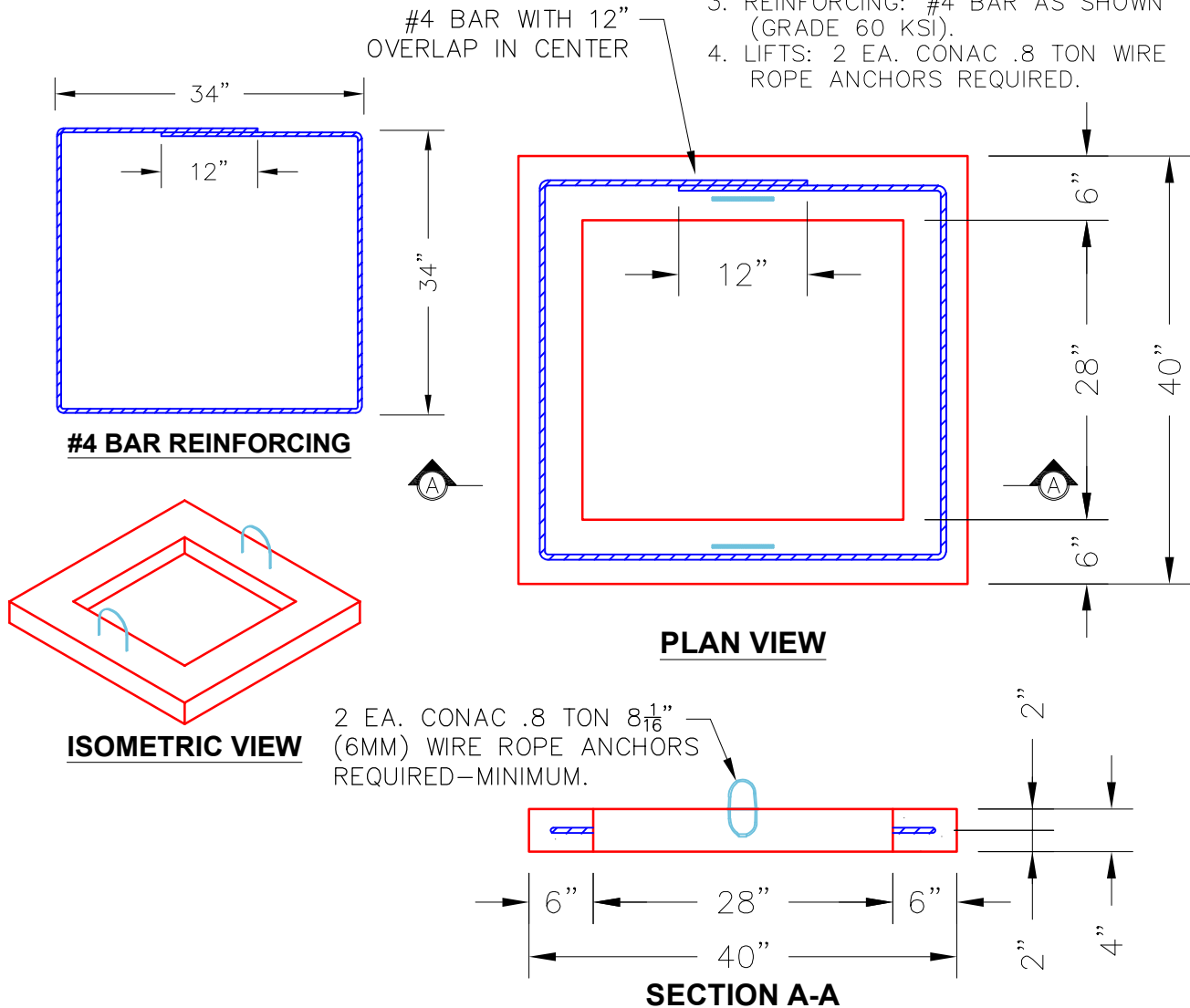
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

Tech: S. Felletter

7/21/2026 8:50:14 AM

PC: A. Chambers



Structure ID: QL18

P7 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
P16) 28" x 28" - GRADE RING 6"W F/F - 4"
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Structure Notes:

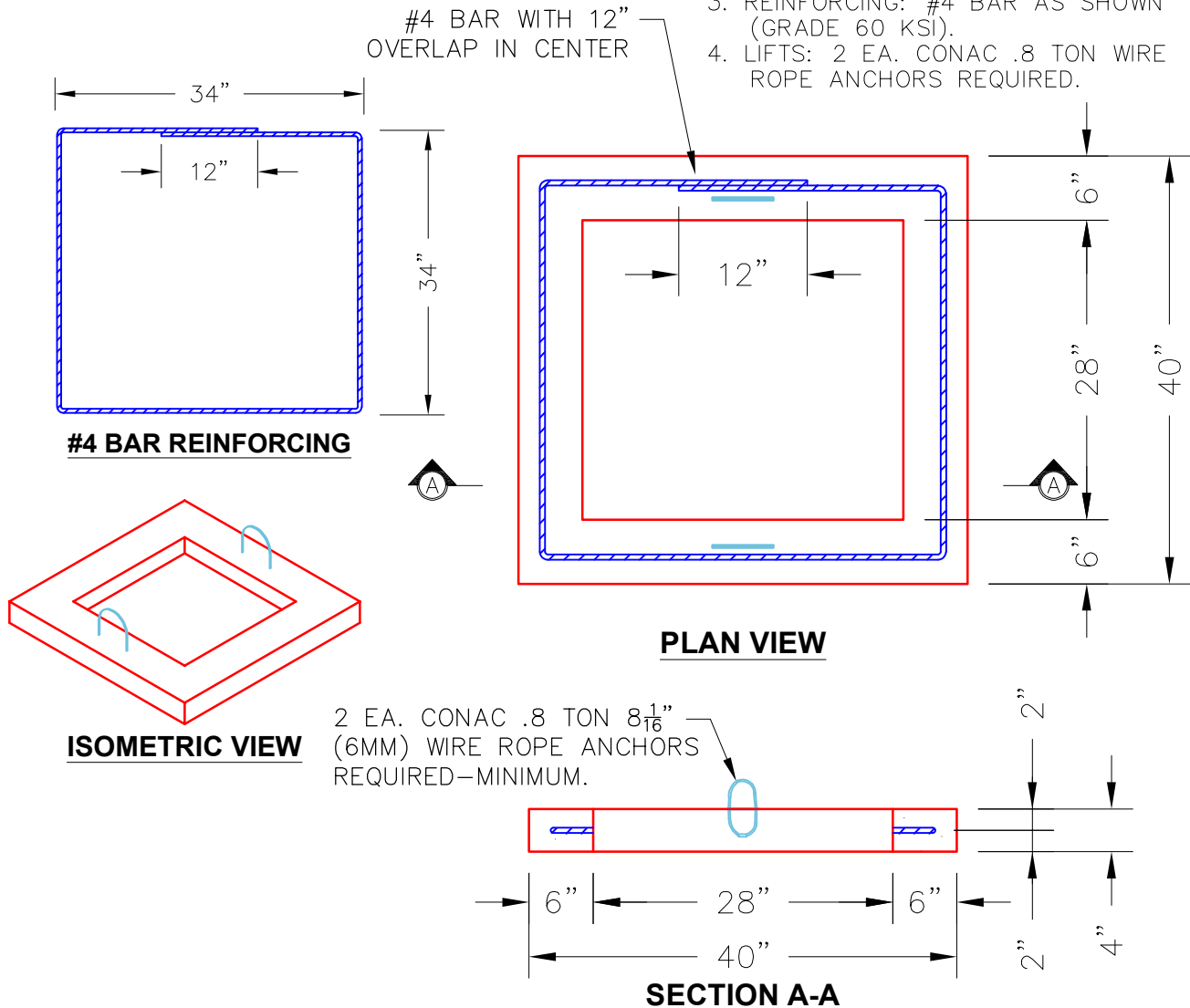
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

Tech: S. Felletter

7/21/2026 8:50:14 AM

PC: A. Chambers



Structure ID: QL18

P8 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
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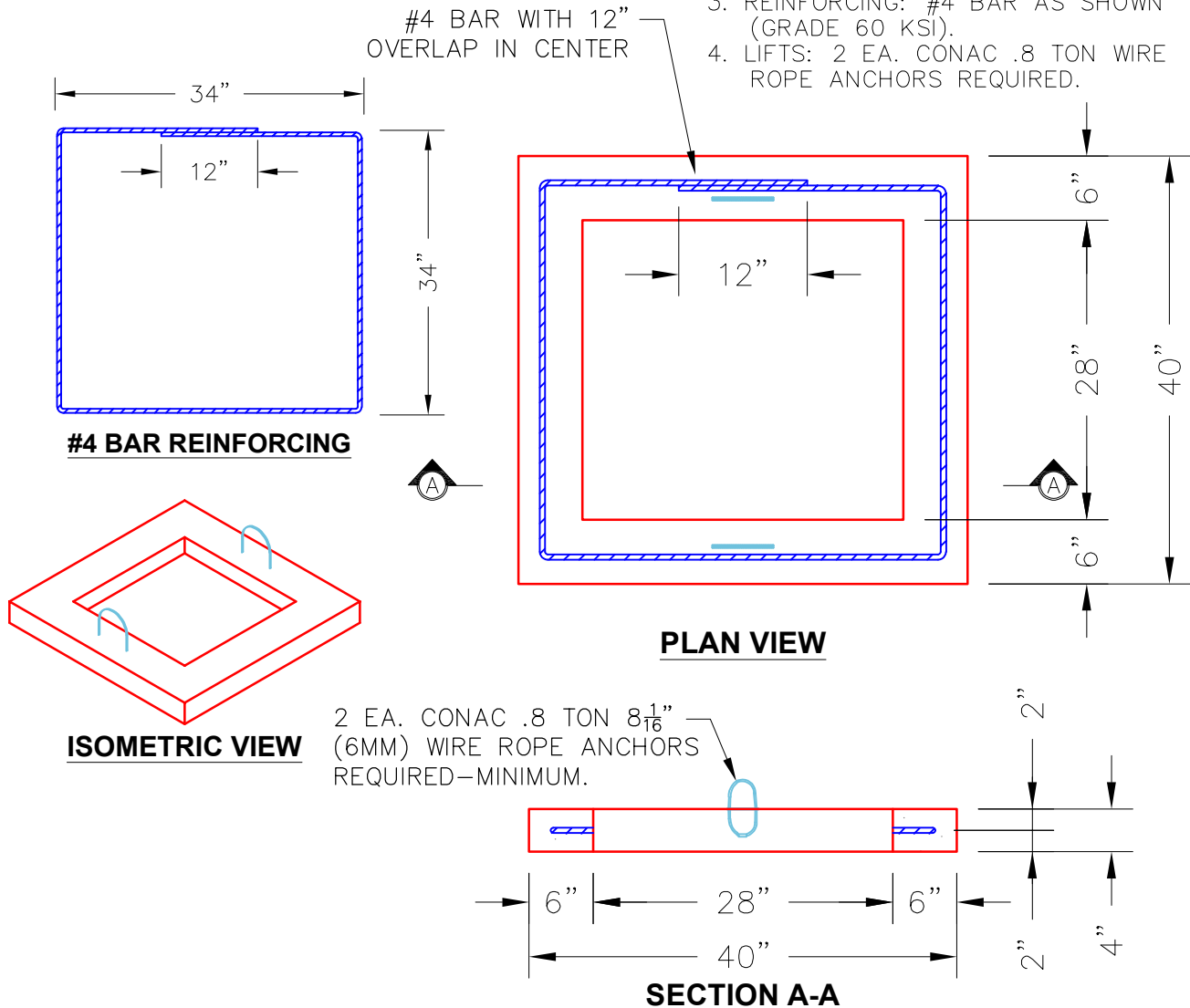
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

7/21/2026 8:50:15 AM

Tech: S. Felletter

PC: A. Chambers



Structure ID: QL18

P9 GR28X28X6X4

GRADE RING 6"W F/F

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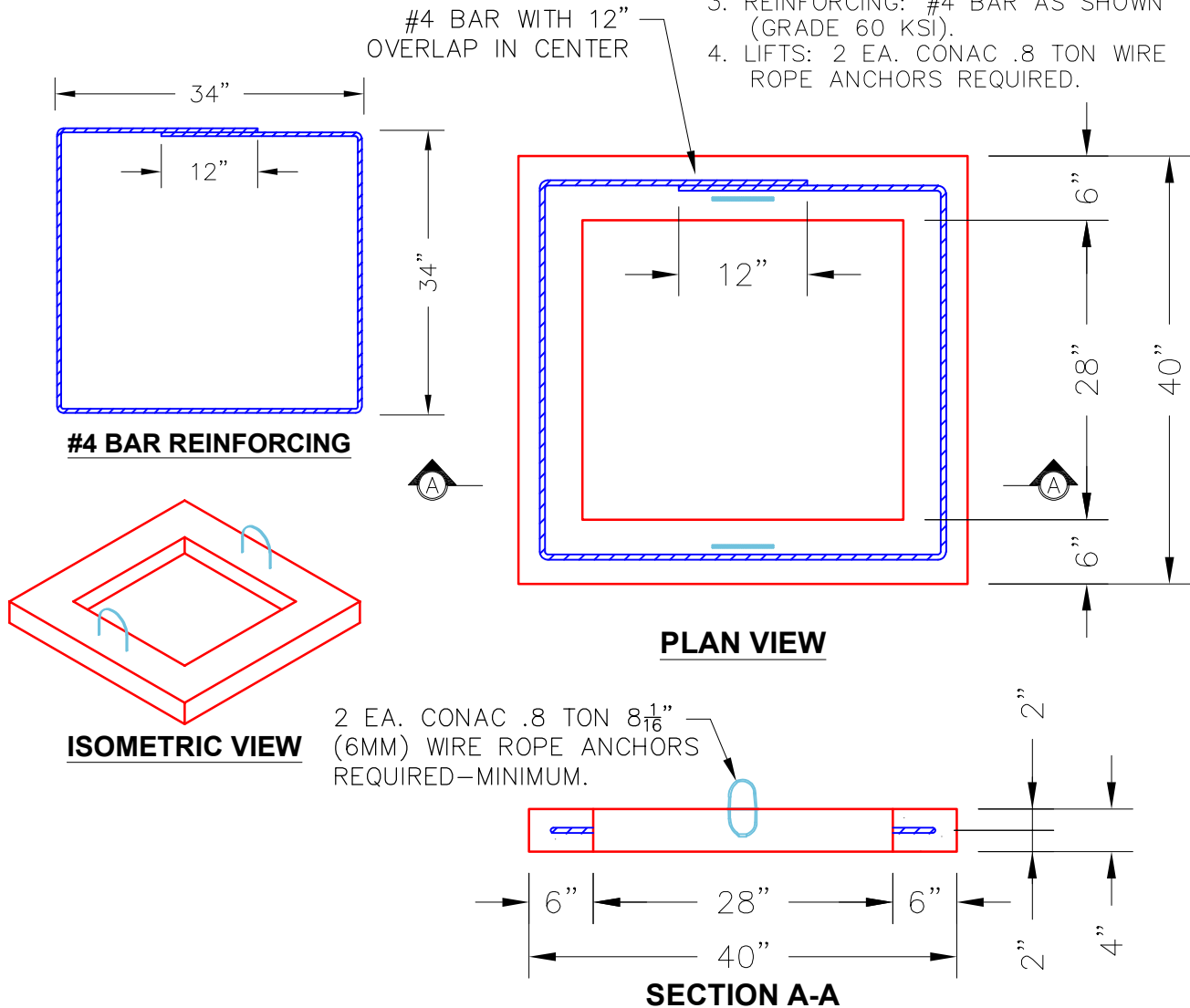
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2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

7/21/2026 8:50:15 AM

Tech: S. Felletter

PC: A. Chambers



Structure ID: QL18

P10 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
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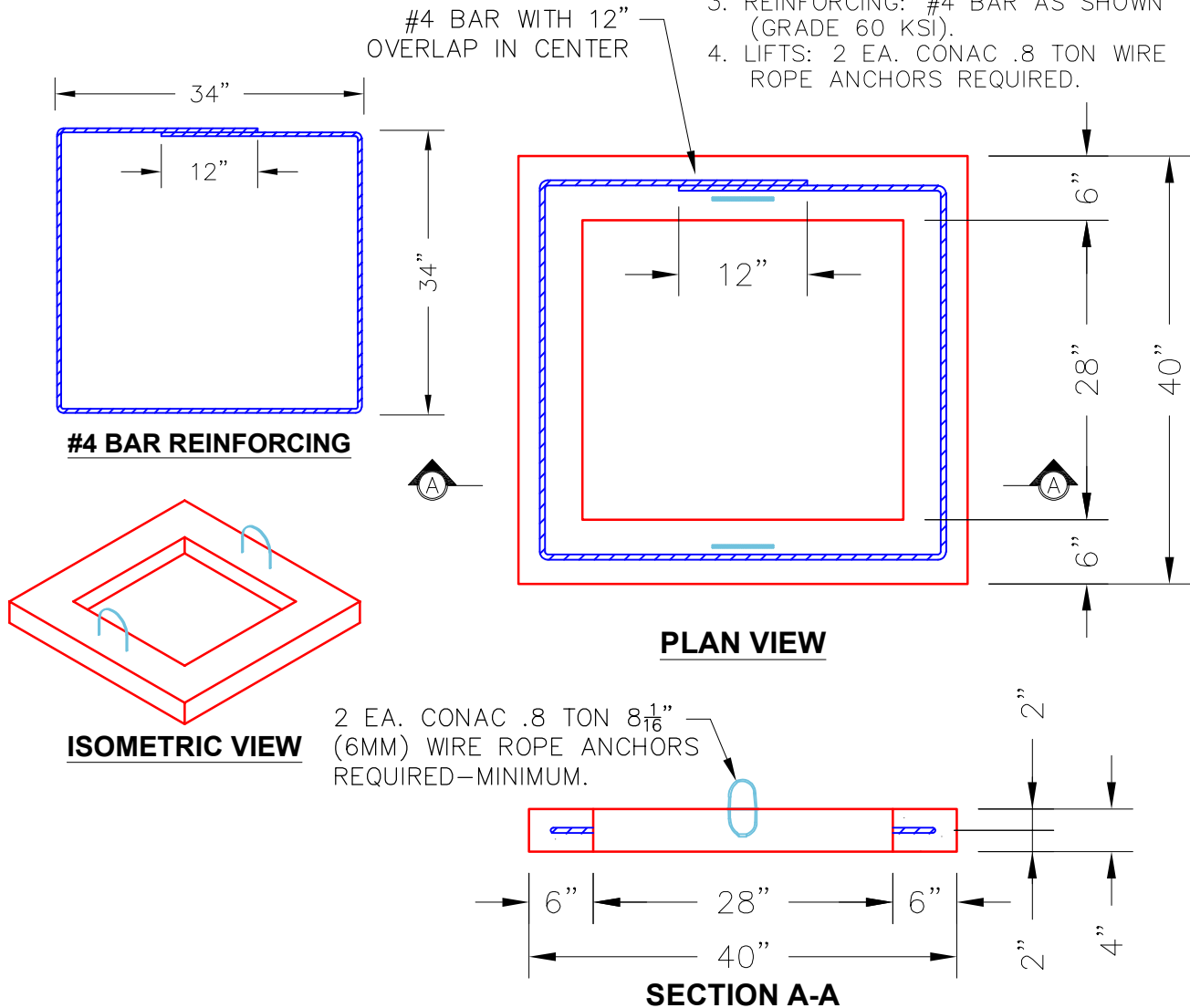
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2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

Tech: S. Felletter

7/21/2026 8:50:15 AM

PC: A. Chambers



Structure ID: QL18

P11 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
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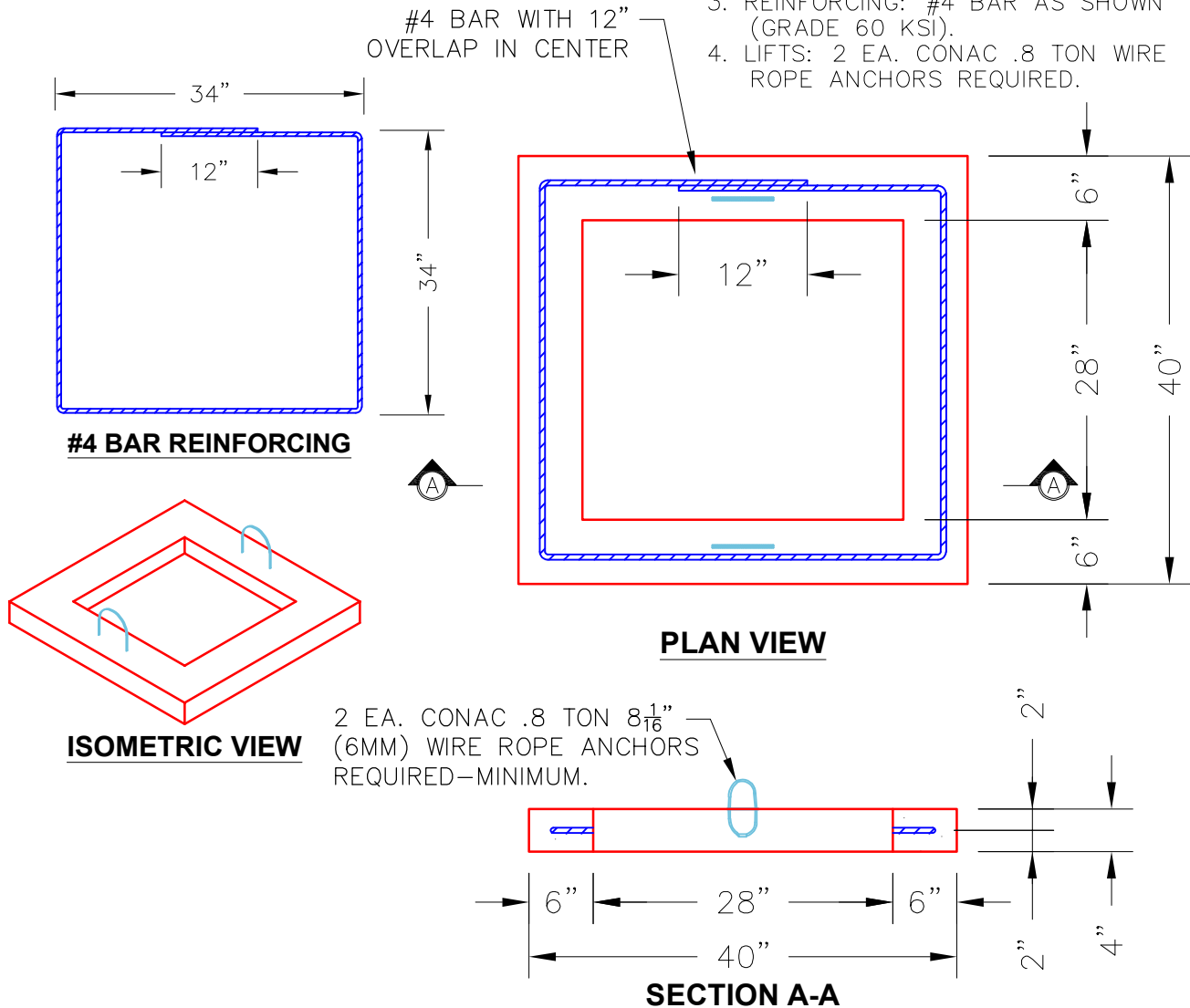
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2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

Tech: S. Felletter

7/21/2026 8:50:16 AM

PC: A. Chambers



Structure ID: QL18

P12 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
P17) 28" x 28" - GRADE RING 6"W F/F - 4"
P16) 28" x 28" - GRADE RING 6"W F/F - 4"
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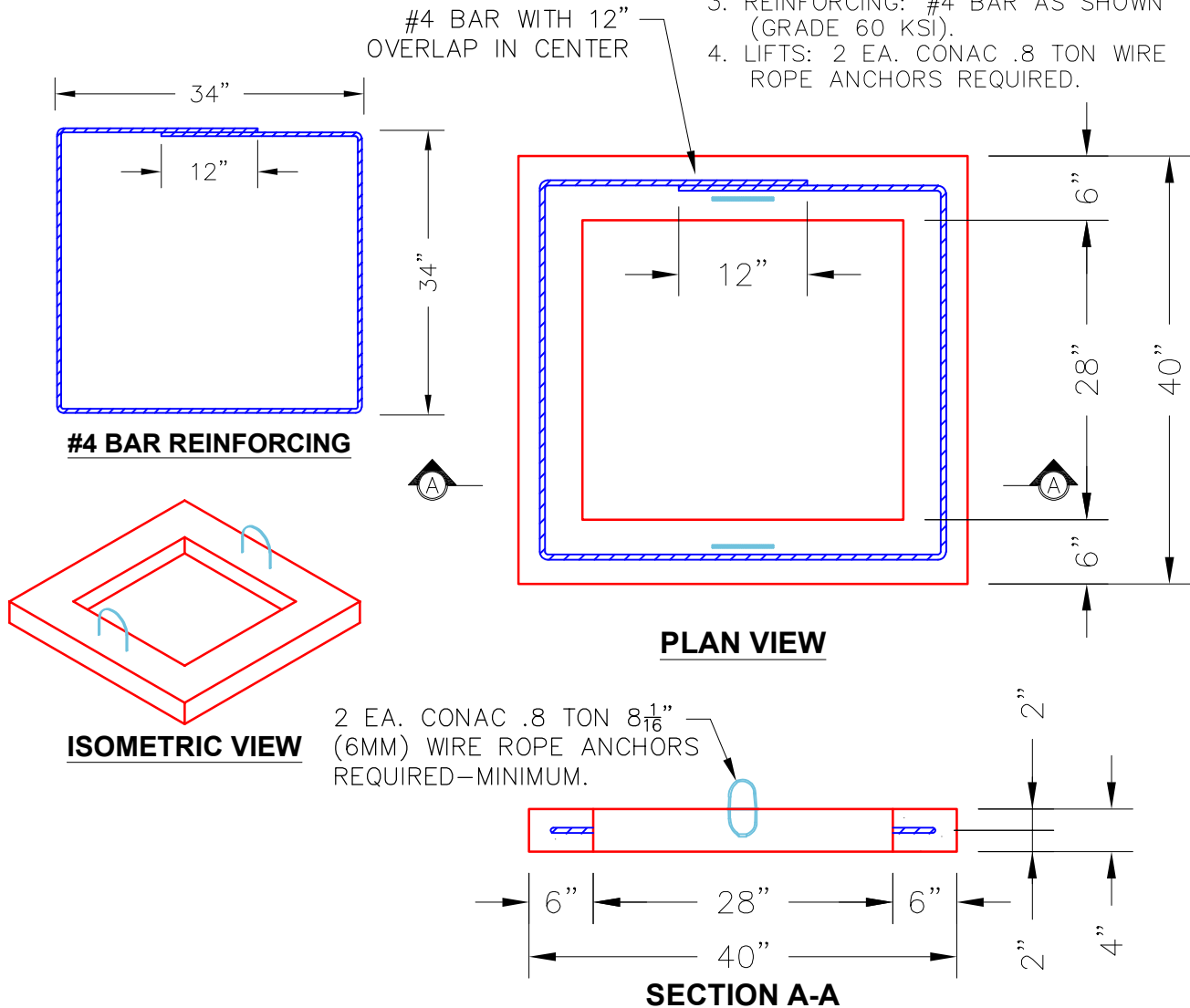
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REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B
Job Location: Antioch, TN
Contractor: Josh King Excavating

Plant: Beaver Dam

Tech: S. Felletter

7/21/2026 8:50:16 AM

PC: A. Chambers



Structure ID: QL18

P13 GR28X28X6X4

GRADE RING 6"W F/F

P18) 28" x 28" - GRADE RING 6"W F/F - 4"
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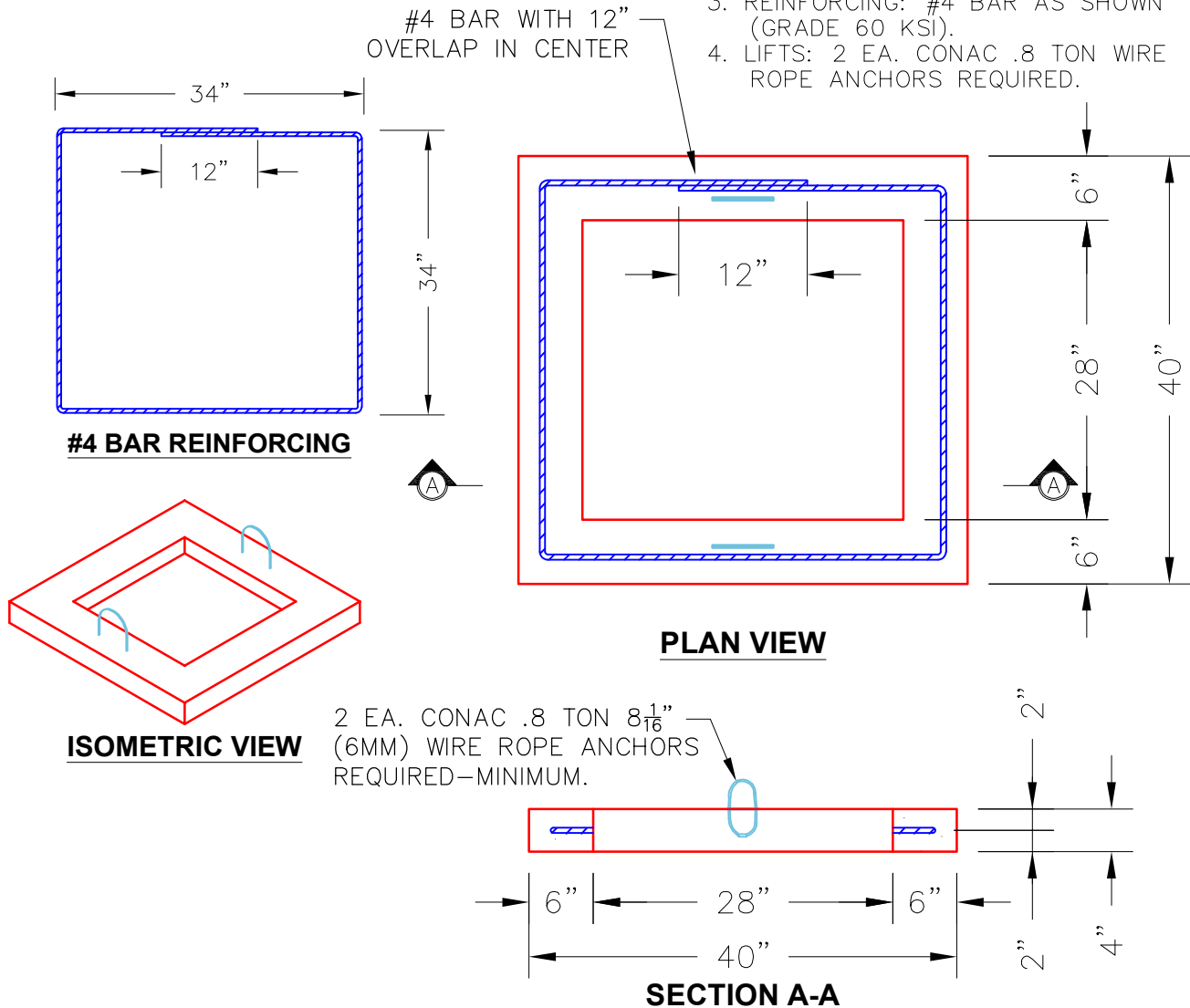
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2. CONCRETE = 4,000 PSI AT 28 DAYS.

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

Structure Total: 4930 lb

NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 4"

Weight (Net): 274 lb
Volume (Net): 0.07cu.yd



Structure ID: 3 (4)

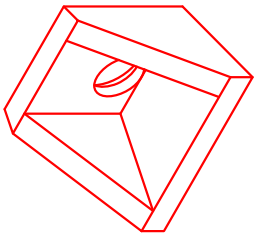
P1 HWA12F

12" - HW AW w/FLAT BOTTOM F/F

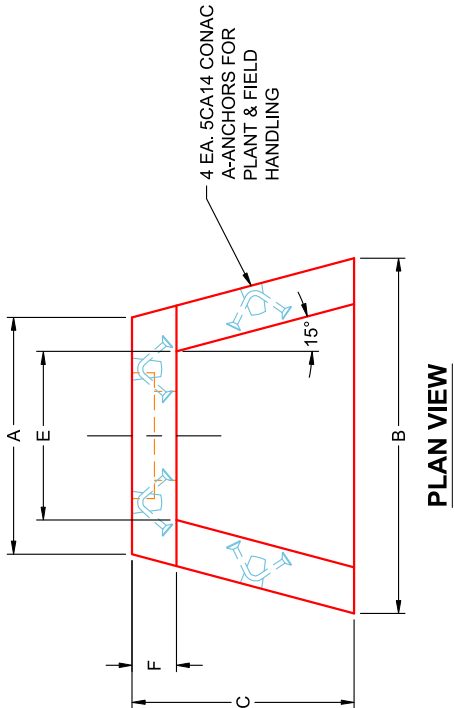
DIMENSIONS							
TYPE	PIPE Ø	A	B	C	D	E	WEIGHT
AW	12"	2'-8"	4'-0"	2'-6"	2'-2"	2'-0"	1,340 LBS

GENERAL NOTES:

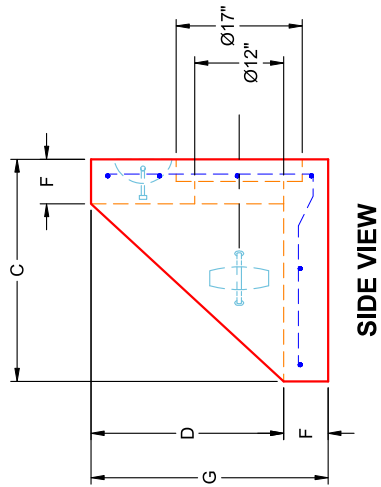
- 1. CONCRETE: 4,500 PSI AT 28 DAYS
- 2. REINFORCING: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
- 3. REINFORCING BARS TO BE TACK WELDED OR TIED



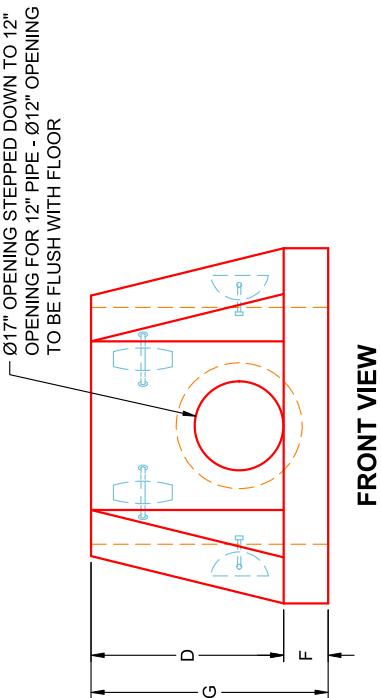
ISOMETRIC VIEW



PLAN VIEW



SIDE VIEW



FRONT VIEW

PRODUCTION WORK ORDER		PRODUCT I.D.: HWA12F	DESCRIPTION: 12" AW HEADWALL W/ FLAT BOTTOM
QUALITY CONTROL CHECKLIST		PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: HAYES PIPE SUPPLY
ICAST INFRASTRUCTURE PRECAST ALL DIMENSIONS CORRECT. LIFTERS INSTALLED. STEPPED HOLE FORMER CORRECT SIZE. REINFORCING CORRECT. CLEARANCE ON REINFORCING CORRECT. EDGES CHAMFERED. ALL PATCHWORK ACCEPTABLE.		PLANT: BEAVER DAM, KY	PROJECT: 314 OLD NASHVILLE HWY
		WEIGHT: 1,340 LBS	STRUCTURE: 3 (4)
		TOP SECTION JOINT: N / A	ORDER NO: 25-4694
		BASE SECTION JOINT: N / A	PE: J.H. ROSS
		QC CHECK INITIALS:	DRAWING: K. CARDWELL
		DATE: 07/14/26	SCALE: NTS
			PG. 1 OF 1



ICAST to install brackets only



TOP SLAB NOT SHOWN

A triangle with the number 1 inside.

SEE INSTALLATION NOTE A



INTERNALS NOT SHOWN

5888 / 757440
LAYOUT 1A
#NAME?TS

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-12 CYLINDER INSERT, STD	325-003982	CONTECH	CONTRACTOR
1	CS-12 CYLINDER TOP	325-003988	CONTECH	CONTRACTOR
10	CS-12 ALUMINUM INSTALLATION BRACKETS	325-003971	CONTECH	PRECASTER
1	CS-12 HARDWARE KIT	325-003983	CONTECH	CONTRACTOR
1	CS-10, CS-12 FIBERGLASS CYLINDER EXTENSION, 2 FT.	325-003979	CONTECH	CONTRACTOR
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
2	24"Ø X 4" FRAME AND COVER, EJ #41600389, OR EQUIV.	325-000350	CONTECH	CONTRACTOR

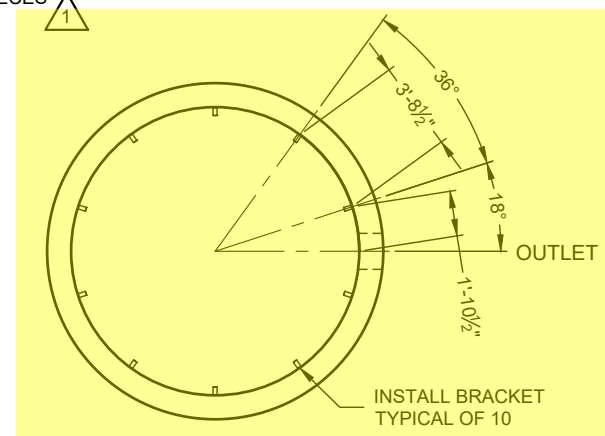
1. DESIGN LOADING - AASHTO HS-20
2. ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
3. JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
4. GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
5. MANUFACTURING TOLERANCE = +/-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

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

RIM ELEV. = 754.15+/-
TOP OF STRUCTURE = 753.51
INLET PIPE 1 INVERT ELEV. = 749.99
INLET PIPE 1 DIAMETER AND MATERIAL = 18"Ø ADS
INLET PIPE 2 INVERT ELEV. = 750.55
INLET PIPE 2 DIAMETER AND MATERIAL = 15"Ø ADS
INLET PIPE 3 INVERT ELEV. = 750.11
INLET PIPE 3 DIAMETER AND MATERIAL = 15"Ø HDPE
OUTLET PIPE INVERT ELEV. = 745.09
OUTLET PIPE DIAMETER AND MATERIAL = 24"Ø RCP
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 734.92

APPROXIMATE HEAVIEST PICK = 44500 LBS.
STRUCTURE IS DELIVERED IN 5 PIECES ^

TOP SLAB = 25500 LBS.
RISER 3 = 21000 LBS.
RISER 2 = 44500 LBS.
CONTROL RISER = 28000 LBS.
BASE SECTION = 44500 LBS.



SUPPORT BRACKET LAYOUT PLAN VIEW

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[illegible]

CS-12 - 863539-30
SOUTH OLDHAM HIGH SCHOOL
RENOVATION AND ADDITION
CRESTWOOD, KY
SITE DESIGNATION: DS-9

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A **GENERAL[®]** COMPANY

9100, Centra Pointe Dr., Suite 400, West Chester, OH 93089
800-338-1122 513-645-7000 513-645-7993 FAX

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separator[®]

FOR PATENT INFORMATION, GO TO www.CONTECHES.COM/JP

DATE:

6/8/2026

DESIGNED:

AWN:

MDB

MDB

CHECKED:

PROVED:

MSB

PROJECT No.
86353

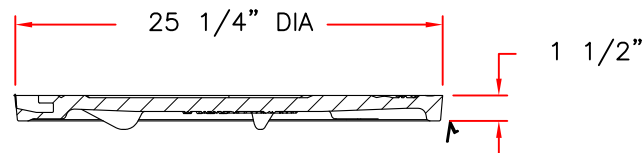
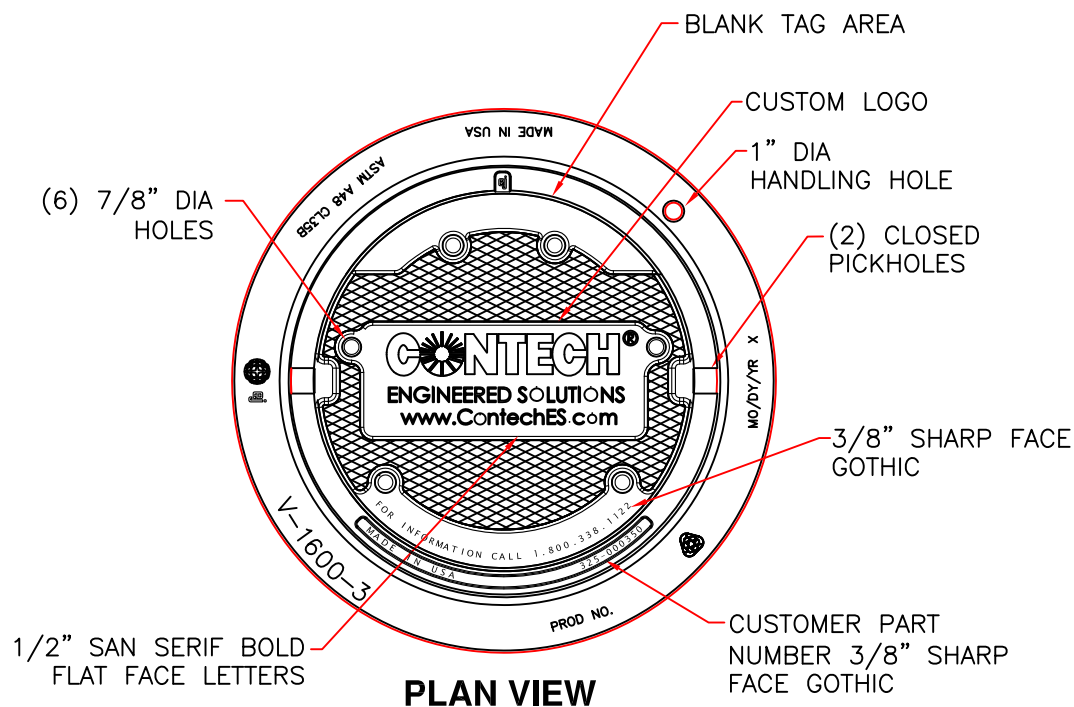
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SHEET:

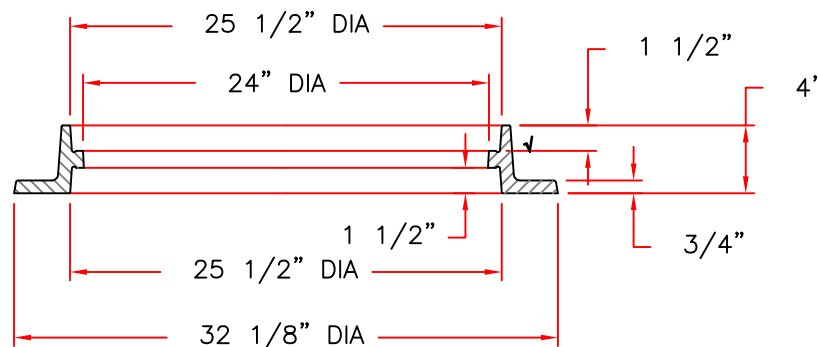
1

OF 1

V1600-3 V1610-3 Assembly



COVER SECTION



RING SECTION

Product Number

41600389

Design Features

- Materials
 - Frame
 - Gray Iron (CL35B)
 - Cover
 - 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

41600310
41600374

Drawing Revision

05/02/2008 Designer: DEW
6/20/2017 Revised By: DAE

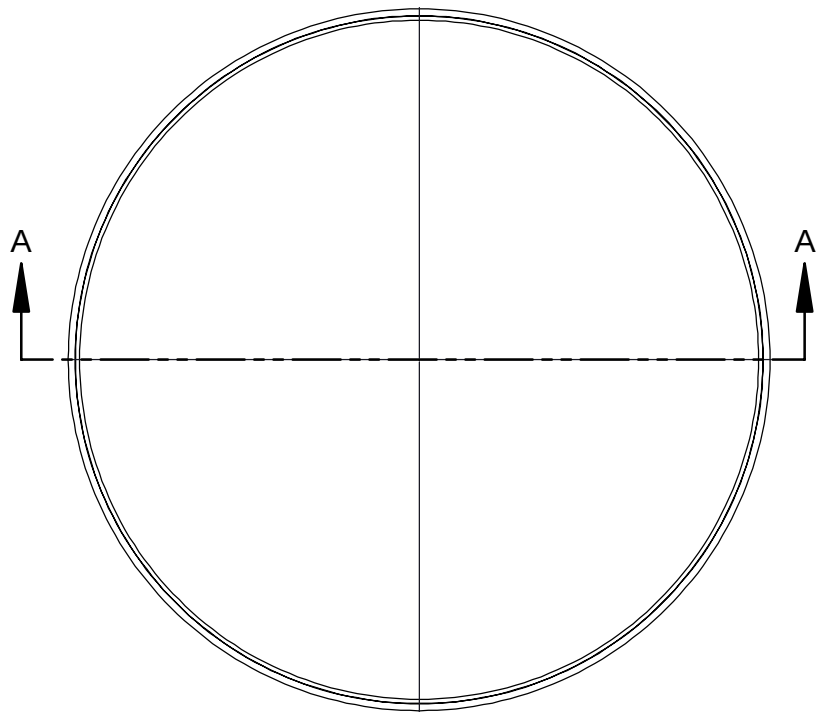
Disclaimer

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

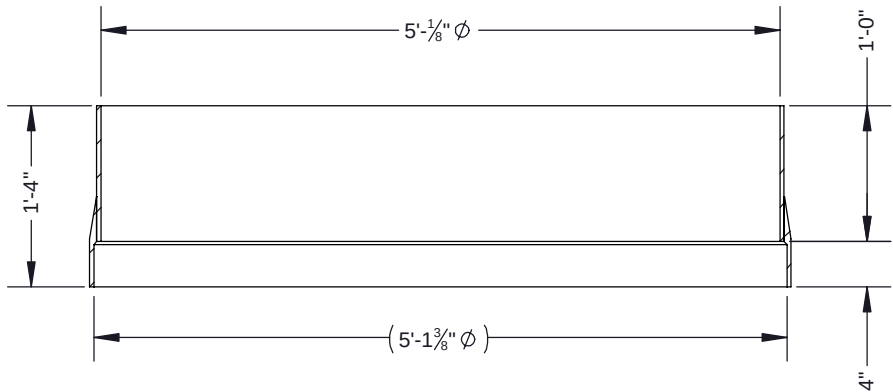
CONFIDENTIAL: This drawing is the property of EJ GROUP, Inc., and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ GROUP, Inc. Copyright © 2012 EJ GROUP, Inc. All rights reserved.

Contact

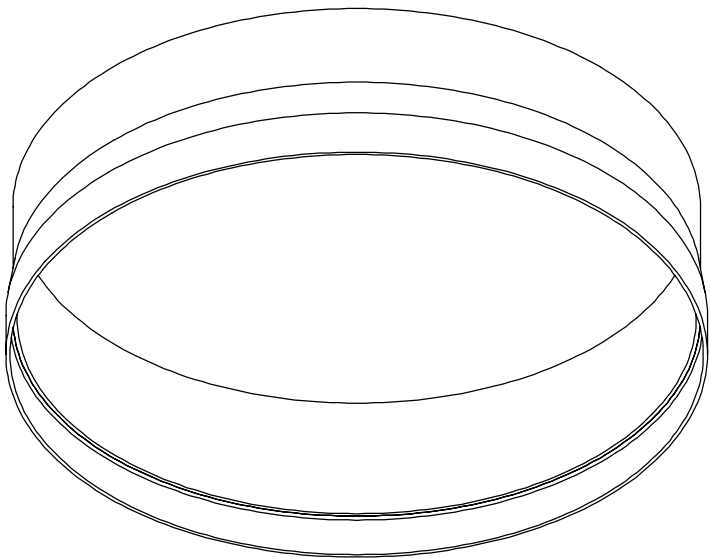
800 626 4653
ejco.com



PLAN VIEW



SECTION A-A



ISOMETRIC VIEW

- NOTES:
- 1. SEE SITE SPECIFIC DRAWINGS FOR REQUIRED CYLINDER EXTENSION HEIGHT
 - 2. SEE CYLINDER EXTENSION INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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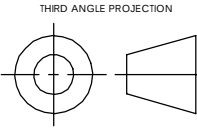
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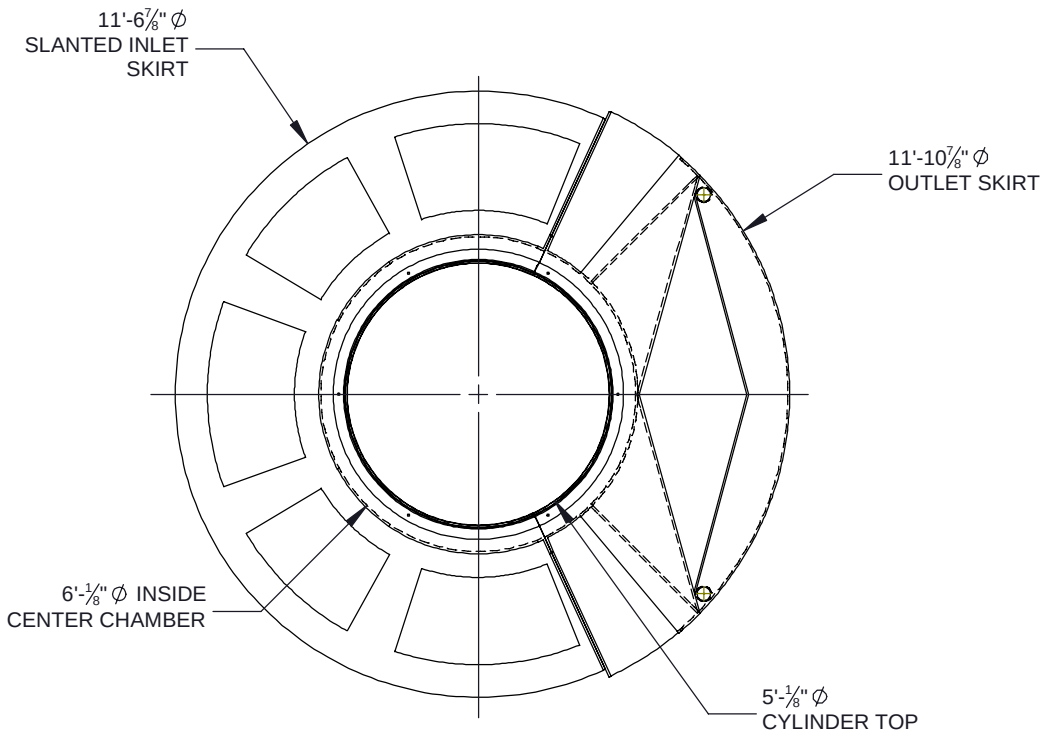
REFERENCE DETAIL
1FT CYLINDER EXTENSION
CS-10,12 CASCADE SEPARATOR



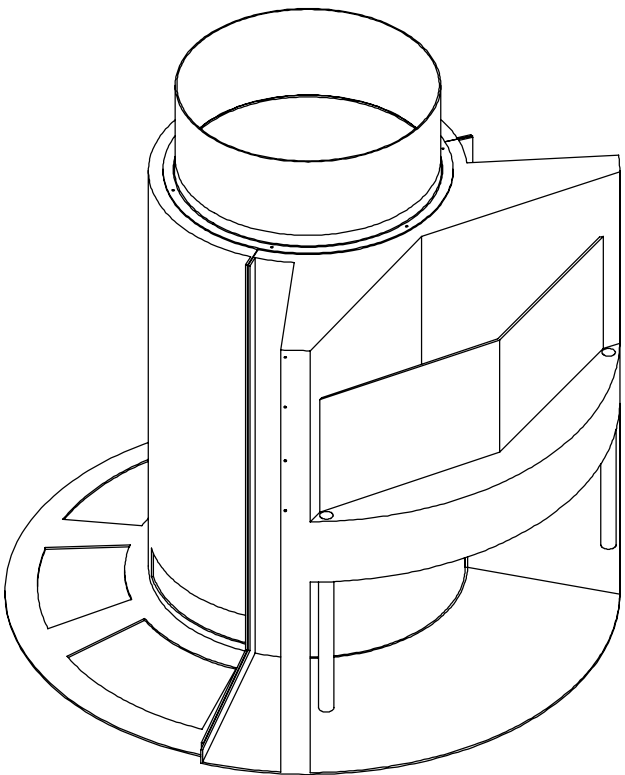
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

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

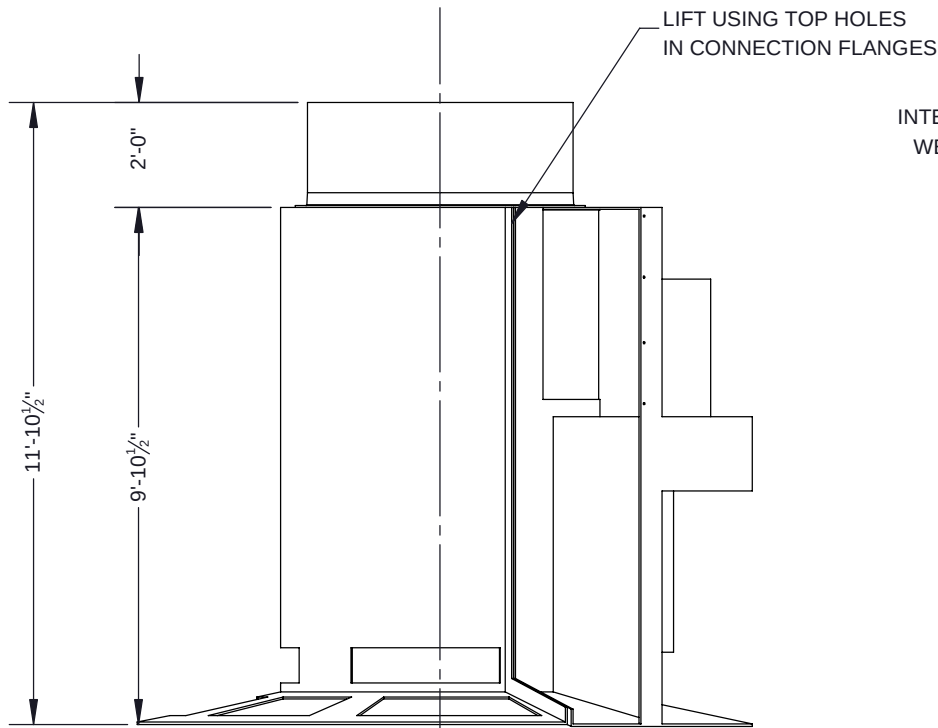
PART NUMBER: 325-003978		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2022.02.14	DRAWN BY DATE: 2022.02.11	REV: A
SCALE: N/A	SHEET 1 OF 1	



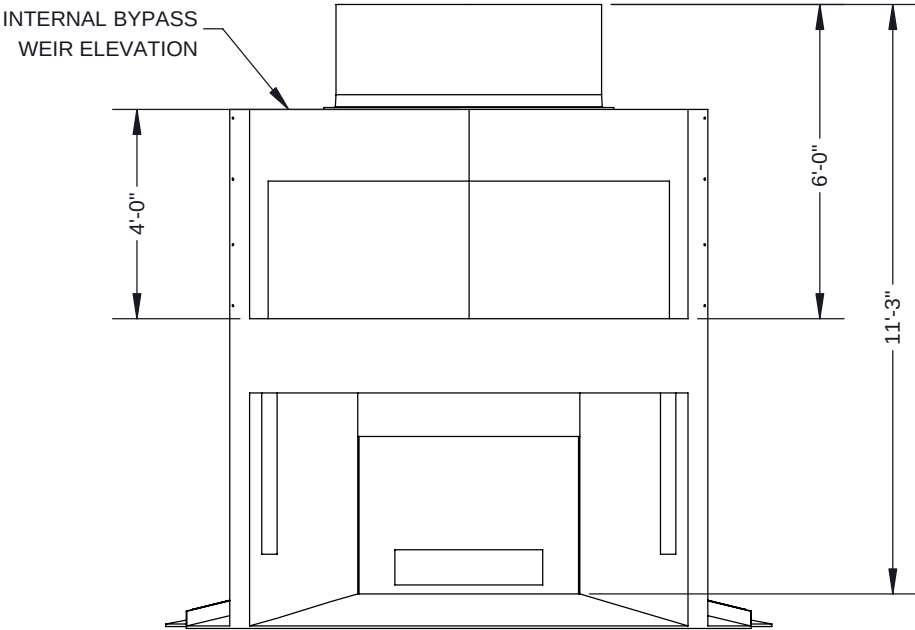
PLAN VIEW



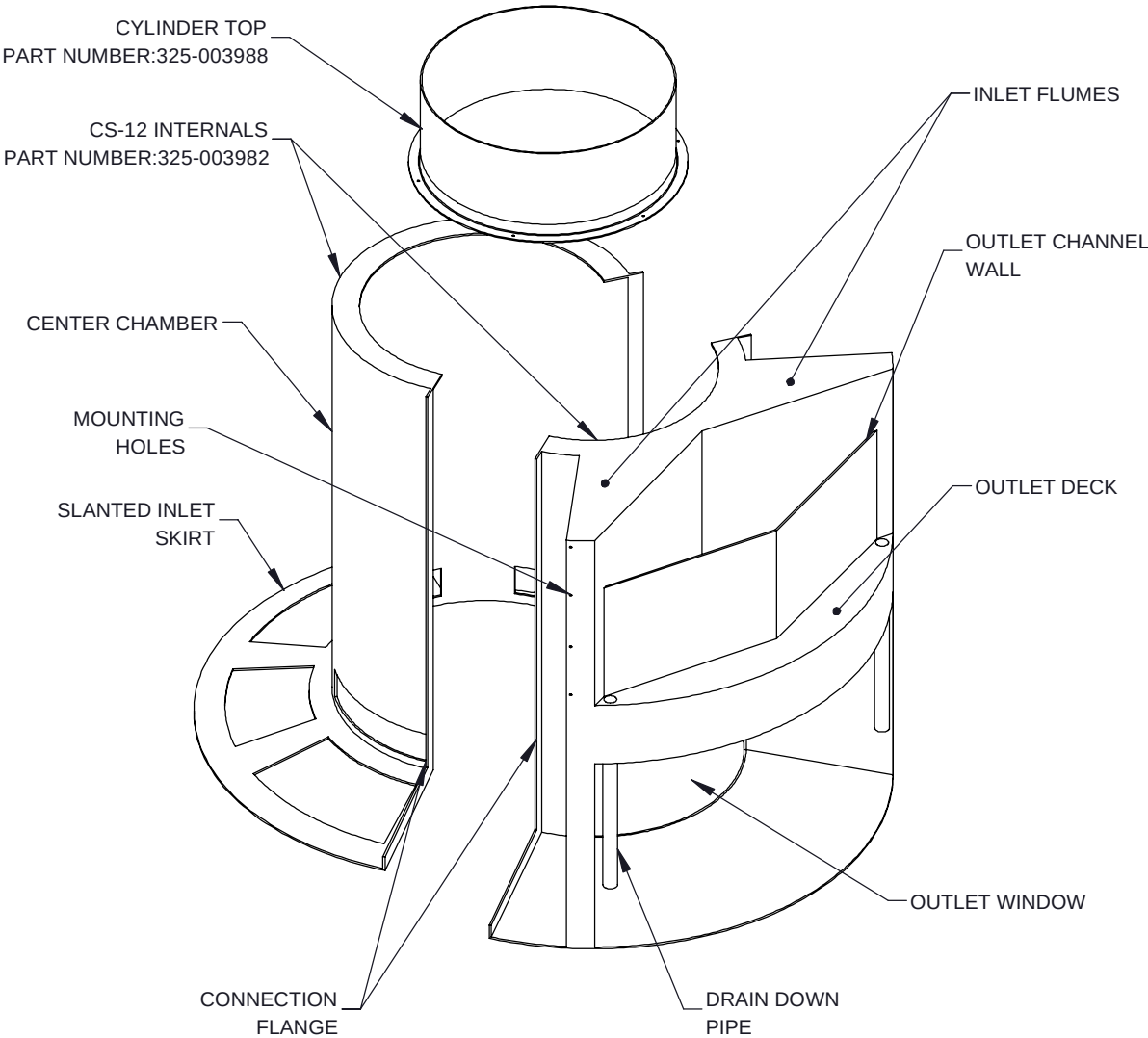
ISOMETRIC VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



EXPLODED ISOMETRIC VIEW

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

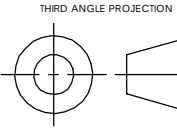
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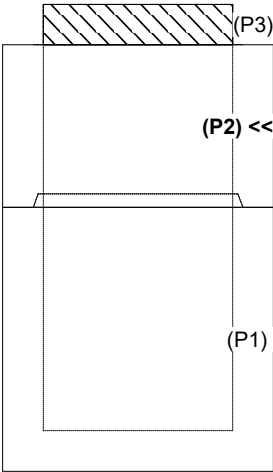
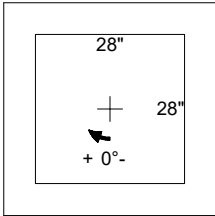
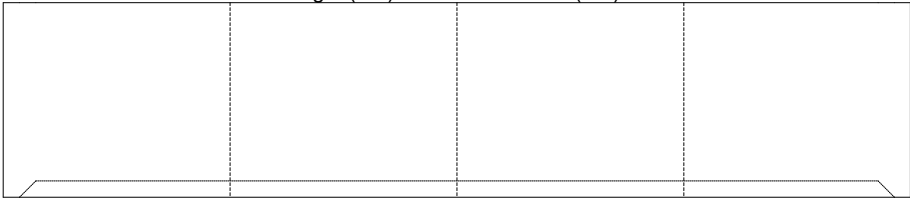
REFERENCE DETAIL
INTERNALS CS-12 &
CYLINDER TOP
CASCADE SEPARATOR



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: 325-003982 & 003988		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.16	REV: C
SCALE: N/A	SHEET 1 OF 1	

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply					Plant: 100 6/15/2026 10:59:50 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: B3 ST-CB											
P2		BX2828-06R24		BOX RISER 6inW F/G							
P3) 28" x 28" - CASTING HEIGHT - 6" P2) 28" x 28" - BOX RISER 6inW F/G - 24" P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht T/n - 33" 2) 28" x 28" - Conseal CS-102 1.00" 1) Hole - 14						0 lb 1643 lb 2988 lb 0 lb 0 lb ----- 0 lb Structure Total: 4631 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING SUPPLIED BY OTHERS (JBS 4300 F/G). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 428.12' Rim to Invert: 5.26' Slack: 0.876" Sump: 0.756" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
(P2)		FrontRight (28")Back (28")Left				EXT24"					
											
Coating (Int): Coating (Ext):			Seam Up: Flat Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 24" Height (Ext): 24"		Weight (Net): 1643 lb Volume (Net): 0.42cu.yd		

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

Plant: Beaver Dam

7/21/2026 8:12:41 AM

Tech: J. Coppage

PC: T. Lewis



Structure ID: QL4 VV

P1 BX090096-06W08F-BAVF

BOX BASE 6inW, 8inF, Variable Ht

- P3) 36" x 36" - HATCH (CAST FLUSH) - 0"
P2) 90" x 96" - BX FLAT LID 6"W w/36"x36" HATCH - 8"
P1) 90" x 96" - BOX BASE 6inW, 8inF, Variable Ht - 96"
1) HATCH (Alum.) - HALLIDAY H1W 36"x36"
1) This Structure Includes a Cast-in Item - 36" x 36" Hatch
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) SECONDARY POUR - WALLS
1) 90" x 96" - Conseal CS-102 1.00" (Double)
3) PSX - 12M NYLO
7) MH Step ML-10-TDS-NCR - 10"

FIRST POUR DRAWING

Structure Total: 33248 lb

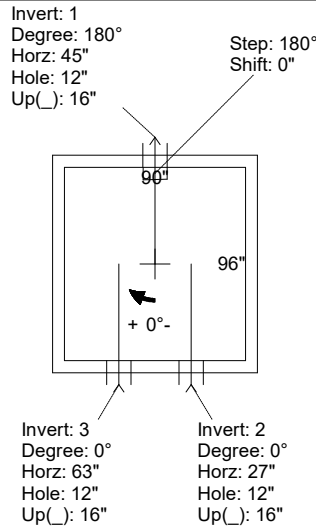
Structure Notes:

1. HALLIDAY H1W 36" X 36" HATCH BY ICAST.
 2. HATCH TO BE CAST INTO THE TOP SLAB.
 3. PER ASTM C913 SPECIFICATIONS.
 4. CONCRETE = 4,000 PSI AT 28 DAYS.
 5. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .31) #5 BARS AT 8" C.C.E.W.
- FLOOR (As .31) #5 BARS AT 8" C.C.E.W.

Rim: 547.24' Rim to Invert: 7.24' Slack: 0.88" Sump: 18" Step Position: 180°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	540'	180°	51"	8" DI	9"	PSX 12M NYLO	12"	12"	16"	0"
Invert 2	540'	0°	33"	8" DI	9"	PSX 12M NYLO	12"	12"	16"	-18"
Invert 3	540'	0°	69"	8" DI	9"	PSX 12M NYLO	12"	12"	16"	18"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

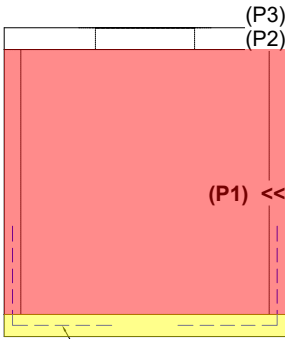


WEIGHTS:

FIRST POUR - 7,395 LBS.

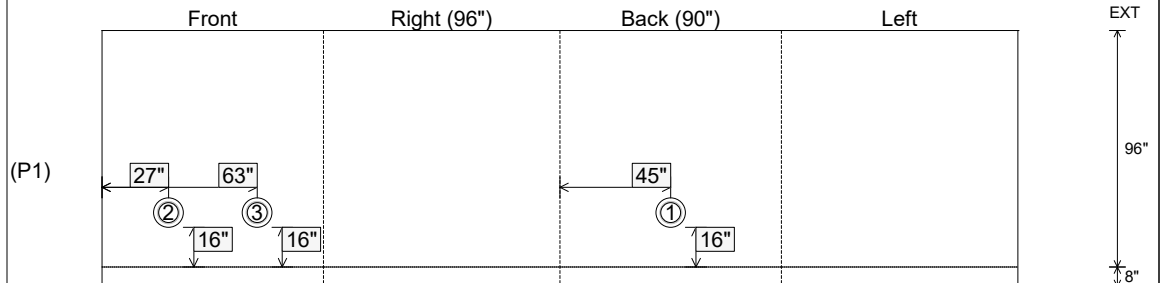
SECOND POUR - 18,969 LBS.

TOTAL - 26,364 LBS.



36" X 36" #5 BAR
@ 12" ON CENTER
TIED INTO THE MAT

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 96"
Height (Ext): 104"

Weight (Net): 26364 lb
Volume (Net): 6.73cu.yd

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

Plant: Beaver Dam

7/21/2026 8:12:41 AM

Tech: J. Coppage

PC: T. Lewis



Structure ID: QL4 VV

P1 BX090096-06W08F-BAVF

BOX BASE 6inW, 8inF, Variable Ht

- P3) 36" x 36" - HATCH (CAST FLUSH) - 0"
P2) 90" x 96" - BX FLAT LID 6"W w/36"x36" HATCH - 8"
P1) 90" x 96" - BOX BASE 6inW, 8inF, Variable Ht - 96"
1) HATCH (Alum.) - HALLIDAY H1W 36"x36"
1) This Structure Includes a Cast-in Item - 36" x 36" Hatch
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) SECONDARY POUR - WALLS
1) 90" x 96" - Conseal CS-102 1.00" (Double)
3) PSX - 12M NYLO
7) MH Step ML-10-TDS-NCR - 10"

SECOND POUR DRAWING

Structure Total: 33248 lb

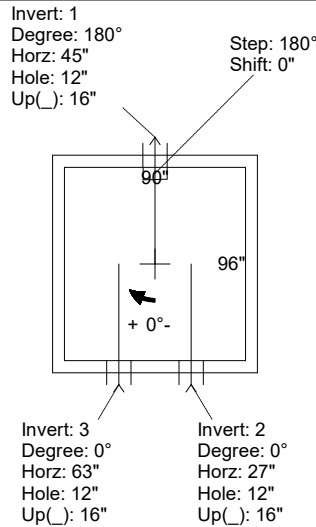
Structure Notes:

1. HALLIDAY H1W 36" X 36" HATCH BY ICAST.
 2. HATCH TO BE CAST INTO THE TOP SLAB.
 3. PER ASTM C913 SPECIFICATIONS.
 4. CONCRETE = 4,000 PSI AT 28 DAYS.
 5. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .31) #5 BARS AT 8" C.C.E.W.
- FLOOR (As .31) #5 BARS AT 8" C.C.E.W.

Rim: 547.24' Rim to Invert: 7.24' Slack: 0.88" Sump: 18" Step Position: 180°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	540'	180°	51"	8" DI	9"	PSX 12M NYLO	12"	12"	16"	0"
Invert 2	540'	0°	33"	8" DI	9"	PSX 12M NYLO	12"	12"	16"	-18"
Invert 3	540'	0°	69"	8" DI	9"	PSX 12M NYLO	12"	12"	16"	18"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

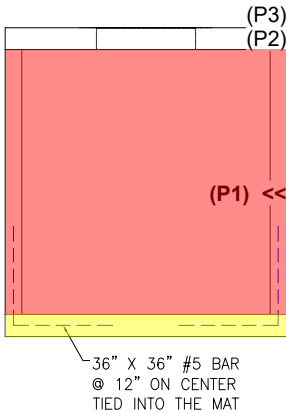


WEIGHTS:

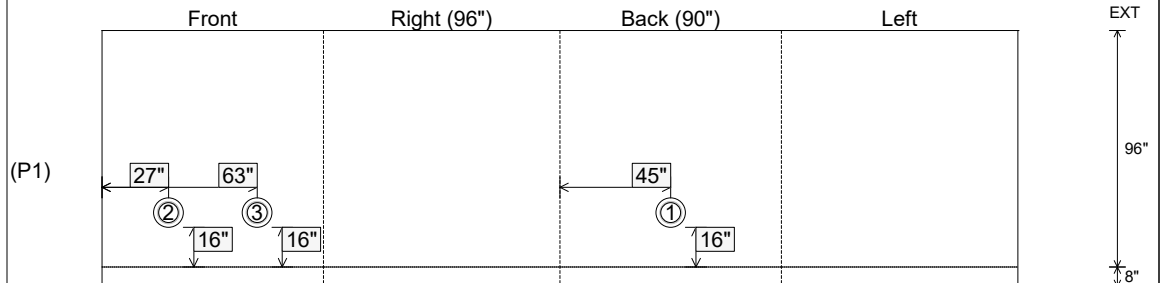
FIRST POUR - 7,395 LBS.

SECOND POUR - 18,969 LBS.

TOTAL - 26,364 LBS.



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 96"
Height (Ext): 104"

Weight (Net): 26364 lb
Volume (Net): 6.73cu.yd

Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018)
Job Location: Hopkinsville, KY
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam

Tech: J. Horsley

6/26/2026 7:44:34 AM

PC: C. Goff



Structure ID: 217

P2 BX036036-08TS024036

CB TRANSITION SLAB 24"X36" HOLE T/F

P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"
P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"
P2) 36" x 36" - CB TRANSITION SLAB 24"X36" HOLE T/F - 8"
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 31"

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

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

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

1) 24" x 36" - Conseal CS-102 1.00"

1) DOGHOUSE INVRTD - 30"x32.75"

1) Hole - 20

1) Hole - 24

1) Hole - 22

1) Hole - 6

3400 lb

5270 lb

1235 lb

4149 lb

206 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total:

14260 lb

Structure Notes:

** KYTC STATE PROJECT **

STATION: 418+00 RT

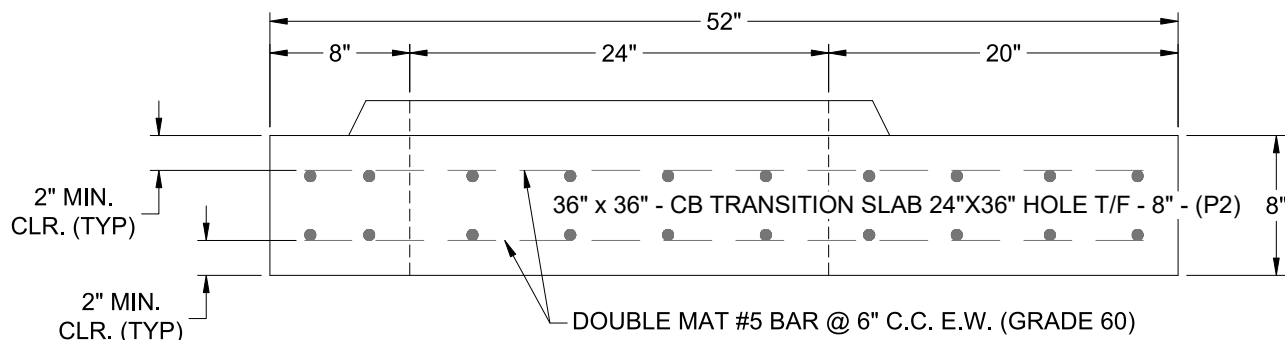
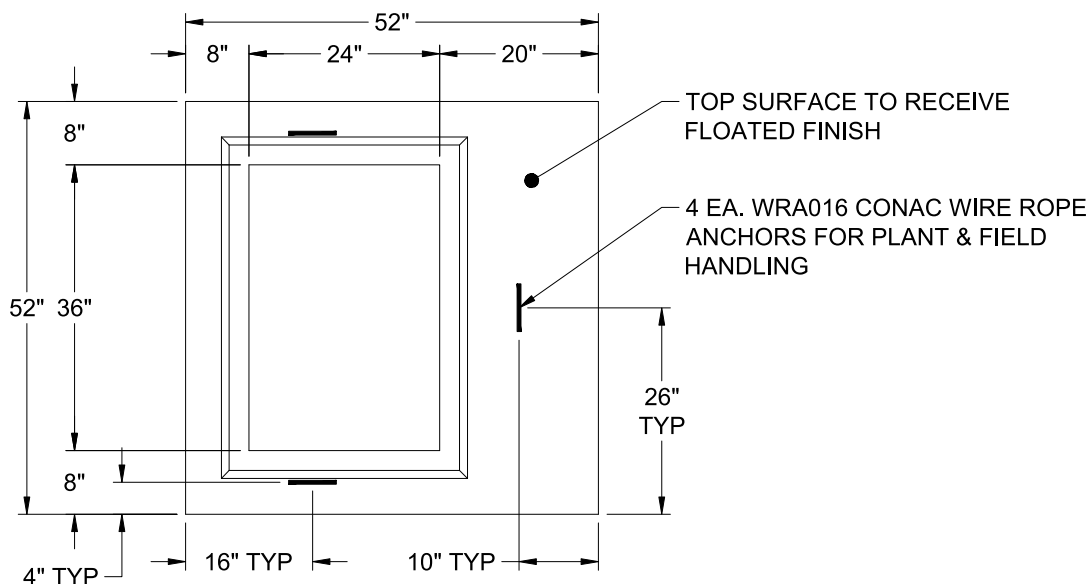
1. PER KYTC CBI TYPE A / ASTM C-913 SPECS

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. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE
ANCHORS FOR PLANT & FIELD HANDLING

5. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Flat

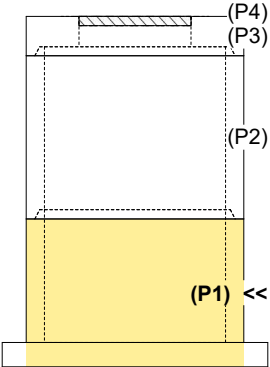
Wall Thickness: 8"

Height (Ext): 8"

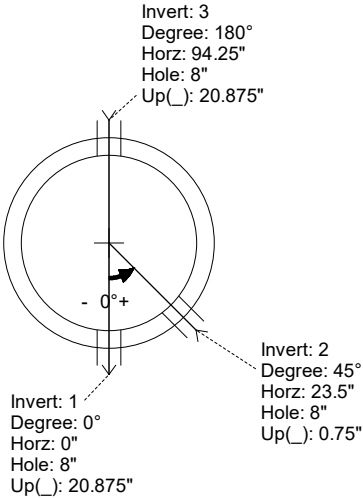
Weight (Net): 1235 lb
Volume (Net): 0.32cu.yd

Job Name: 26-1394 - TMMI Ryder Lift Station Job Location: Princeton, IN Contractor: Koberstein Contracting, Inc.					Plant: 100 7/16/2026 2:28:14 PM		Tech: Jared - A PC: A. Chambers						
Structure ID: 5 MV (2)													
P1		MH060BAEVF											
MH BASE w/FLANGE (08F/08EF) T/n													
P4) 37" x 36" - HATCH (CAST FLUSH) - 3" P3) 60" - MH FLAT TOP w/37"x36" Hatch F/G - 13" P2) 60" - MH RISER T/G - 54" P1) 60" - MH BASE w/FLANGE (08F/08EF) T/n - 41" 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) This Structure Includes a Cast-in Item - 37" x 36" Hatch (Supplied by Others) 1) SECONDARY POUR - Extended Base Flange 2) 60" - Conseal CS-102 1.00" (Double) 3) PSX - 8QRS-S NYLO						0 lb 2305 lb 5637 lb 8287 lb 0 lb 0 lb 0 lb 0 lb 0 lb 20 lb ----- 16249 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP): - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 10" C.C. E.W. (GRADE 60) 4. NO STEPS 5. FLOOR GROUTING BY OTHERS 6. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AT 45°, 135°, 225°, & 315°, MIN. 12" FROM TOP OF WALLS					
Structure Total:													
FIRST POUR (BASE): 6,937 LBS SECOND POUR (8" EXT. FLANGE): 1,350 LBS													
Rim: 464.81' Rim to Invert: 8.76' Slack: 0.48" Sump: 3.36" Step Position:													
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset			
Invert 1	457.68'	0°	0"	4" DI	4.75"	PSX 8QRS-S NYLO	8"	8.024"	20.875"	0"			
Invert 2	456.05'	45°	28.25"	3" PVC SCH80	3.5"	PSX 8QRS-S NYLO	8"	8.024"	0.75"	0"			
Invert 3	457.68'	180°	113.125"	4" DI	4.75"	PSX 8QRS-S NYLO	8"	8.024"	20.875"	0"			
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													

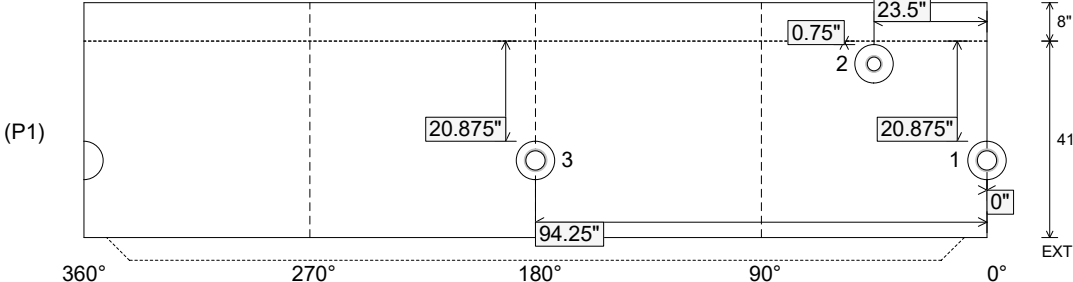
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 41" Height (Ext): 49"	Weight (Net): 8287 lb Volume (Net): 2.12cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 26-1394 - TMMI Ryder Lift Station

Job Location: Princeton, IN

Contractor: Koberstein Contracting, Inc.

Plant: 100

7/16/2026 2:28:14 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: 5 MV (2)

P1MH060BAEVF

MH BASE w/FLANGE (08F/08EF) T/n

P4) 37" x 36" - HATCH (CAST FLUSH) - 3"

P3) 60" - MH FLAT TOP w/37"x36" Hatch F/G - 13"

P2) 60" - MH RISER T/G - 54"

P1) 60" - MH BASE w/FLANGE (08F/08EF) T/n - 41"

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

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

1) This Structure Includes a Cast-in Item - 37" x 36" Hatch (Supplied by Others)

1) SECONDARY POUR - Extended Base Flange

2) 60" - Conseal CS-102 1.00" (Double)

3) PSX - 8QRS-S NYLO

0 lb

2305 lb

5637 lb

8287 lb

0 lb

0 lb

0 lb

0 lb

0 lb

20 lb

Structure Total: 16249 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: DRILL & DOWEL #5 BAR @ 8" C.C. E.W. (GRADE 60) OUT OF BASE FLOOR FOR EXT. FLANGE POUR TIE-IN - 4" MIN. PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE FROM TOP OF FLOOR (TYP)

FIRST POUR (BASE):6,937 LBS

SECOND POUR (8" EXT. FLANGE):1,350 LBS

Rim: 464.81'

Rim to Invert: 8.76'

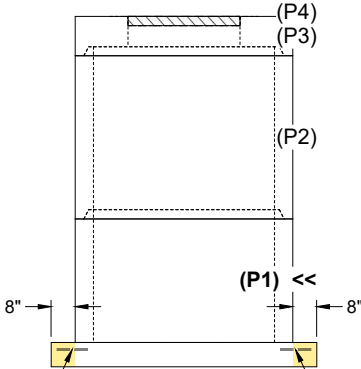
Slack: 0.48"

Sump: 3.36"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	457.68'	0°	0"	4" DI	4.75"	PSX 8QRS-S NYLO	8"	8.024"	20.875"	0"
Invert 2	456.05'	45°	28.25"	3" PVC SCH80	3.5"	PSX 8QRS-S NYLO	8"	8.024"	0.75"	0"
Invert 3	457.68'	180°	113.125"	4" DI	4.75"	PSX 8QRS-S NYLO	8"	8.024"	20.875"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



(P4)

(P3)

(P2)

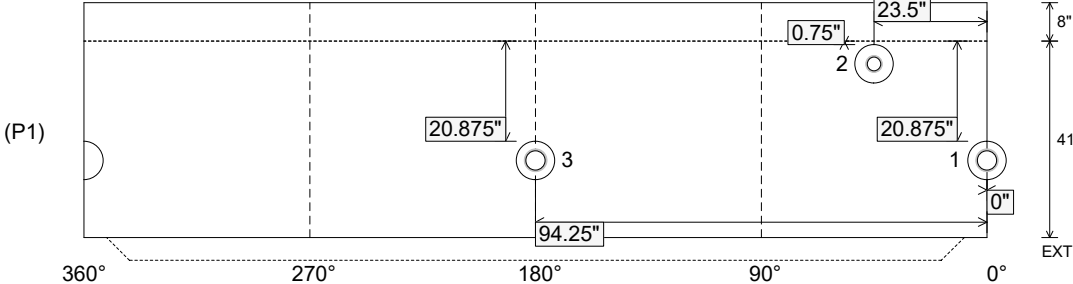
(P1) <<

8"

8"

DRILL & DOWEL #5 BAR @ 8" C.C. E.W. (GRADE 60) FOR FLANGE POUR TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE FROM TOP OF FLOOR (TYP)

INSIDE WALL DIMENSIONS



(P1)

360°

270°

180°

90°

0°

EXT

94.25

20.875

20.875

23.5

0.75

41

8

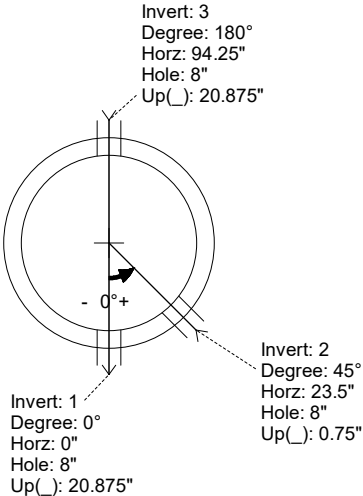
3

2

1

0"

UPSIDE-DOWN VIEW (int. dimensions)



Invert: 3
Degree: 180°
Horz: 94.25"
Hole: 8"
Up(_): 20.875"

Invert: 2
Degree: 45°
Horz: 23.5"
Hole: 8"
Up(_): 0.75"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 8"
Up(_): 20.875"

- 0°+

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

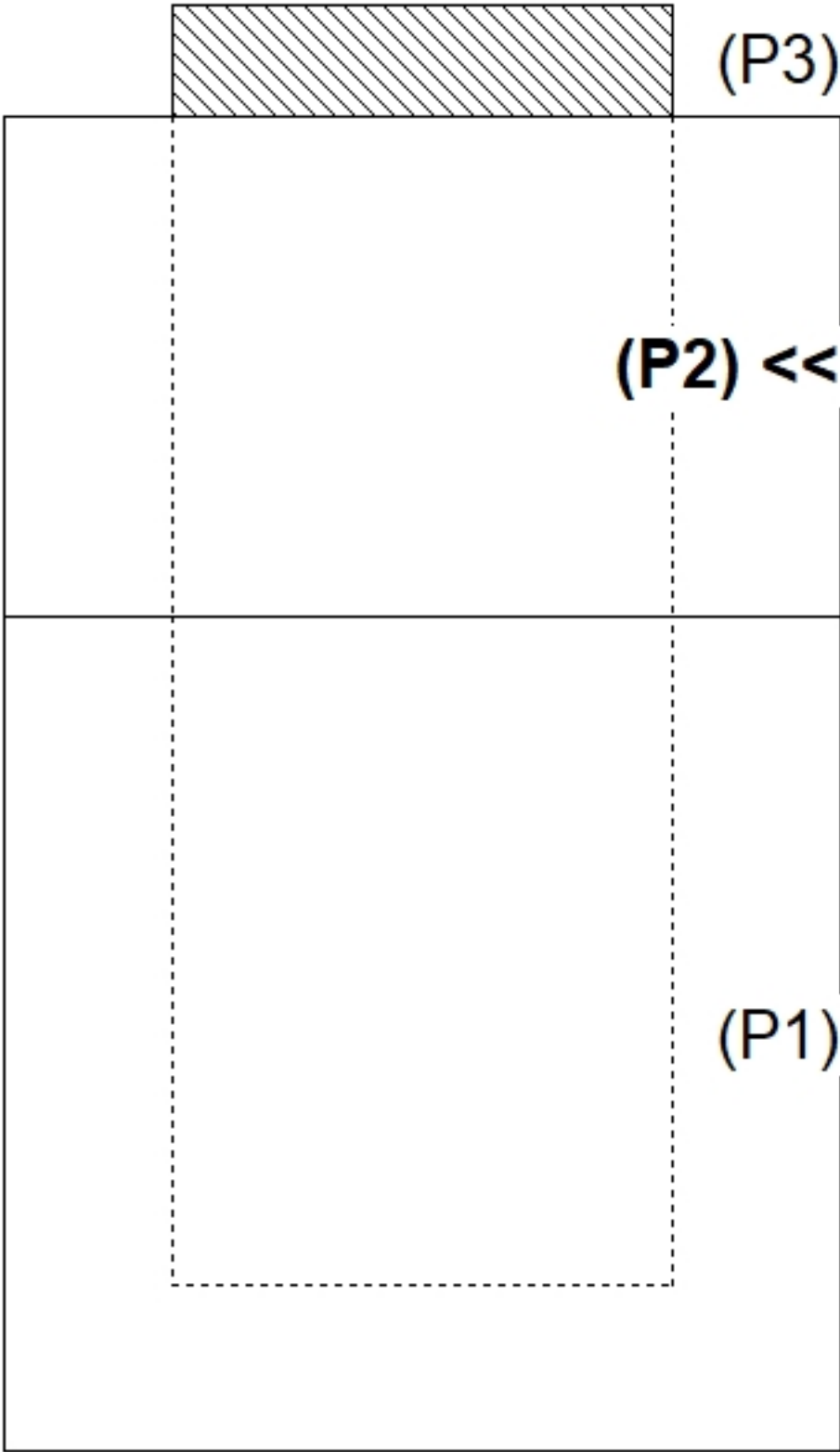
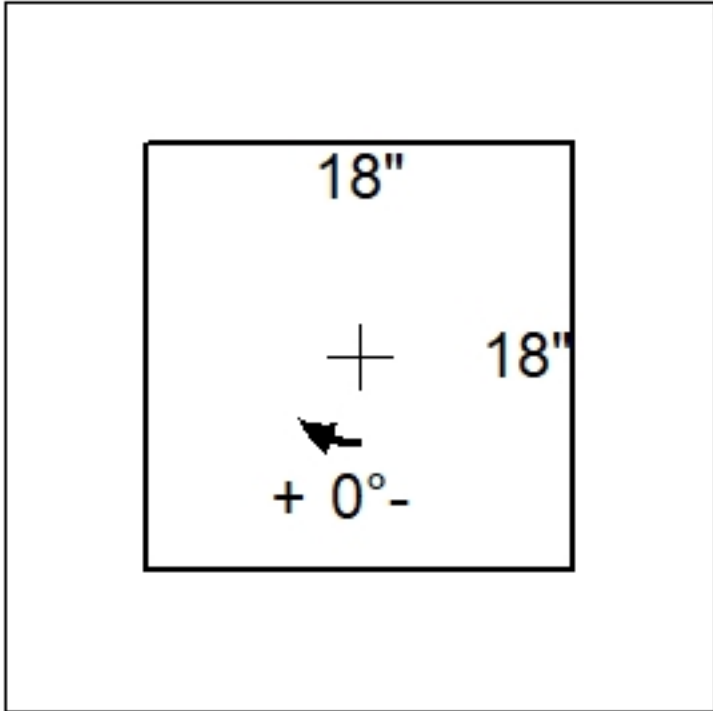
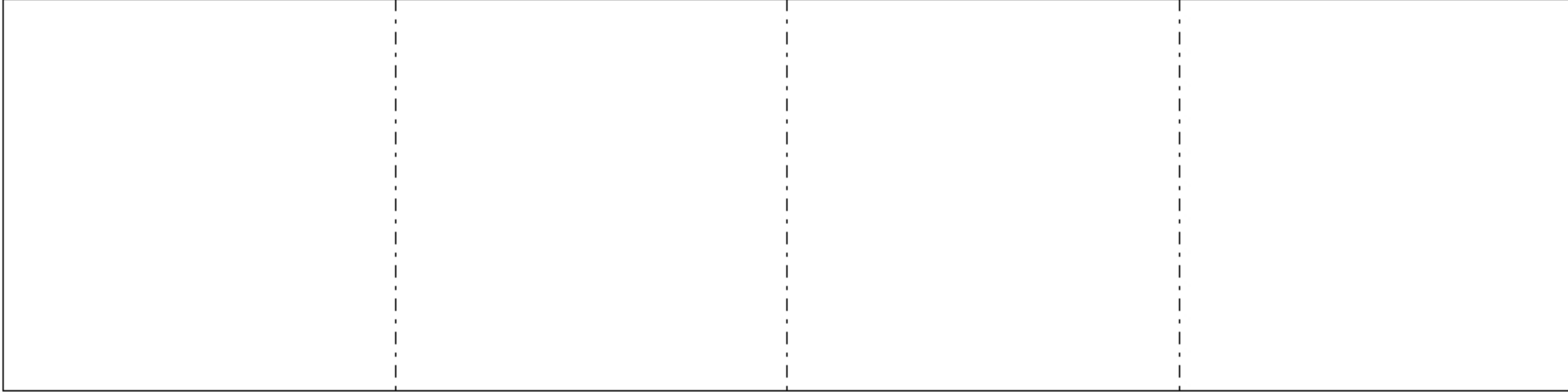
Floor Height: 8"

Height (Int): 41"

Height (Ext): 49"

Weight (Net): 8287 lb

Volume (Net): 2.12cu.yd

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

Job Name: 26-2119 512 W Kingston Ave MSD					Plant: Beaver Dam		Tech: S. Felletter				
Job Location: Louisville, KY					7/16/2026 3:43:40 PM		PC: T. Lewis				
Contractor: TRC, LLC											
Structure ID: QL3 ST-CB 10											
P2 BX1818-06R18 BOX RISER 6inW F/F											
P3) 18" x 18" - CASTING HEIGHT - 4" P2) 18" x 18" - BOX RISER 6inW F/F - 18" P1) 18" x 18" - KNOCKOUT BASE 6"W/F - STOCK F/n - 24" 1) CASTING - HOE 165A F/G 2) 18" x 18" - Conseal CS-102 1.00"						0 lb 870 lb 1613 lb 138 lb 0 lb ----- Structure Total: 2621 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 165-A F/G). . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 3.833' Rim to Invert: 0' Slack: 0" Sump: 46" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (┘)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions) (P3) (P2) << (P1) 18" + 18" + 0°- INSIDE WALL DIMENSIONS Front Right (18") Back (18") Left (P2) 18"											

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

Job Location: Hopkinsville, KY

Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam

6/26/2026 7:35:43 AM

Tech: J. Horsley

PC: C. Goff



Structure ID: 203

P1 BX24300808VF

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

P3) 15" x 27" - P.I.P. - BY OTHERS - 8"

P2) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"

P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht F/n - 39"

1) CASTING - HOE KY-230-G F/G (GRADE)

1) 24" x 30" - Conseal CS-102 1.00"

1) Hole - 20

2) Hole - 4

0 lb

963 lb

4673 lb

237 lb

0 lb

0 lb

0 lb

Structure Total: 5873 lb

Structure Notes:

** KYTC STATE PROJECT **

STATION: 410+90 LT

1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

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

4. HOE KY-230G FRAME & GRATE SUPPLIED BY ICAST - POURED IN PLACE BY OTHERS

Rim: 564.76'

Rim to Invert: 4.66'

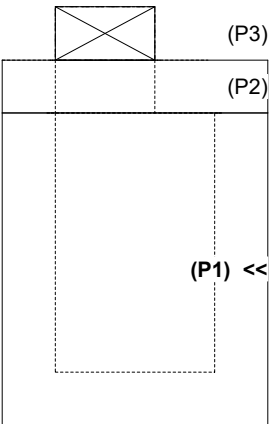
Slack: 0.92"

Sump: 0"

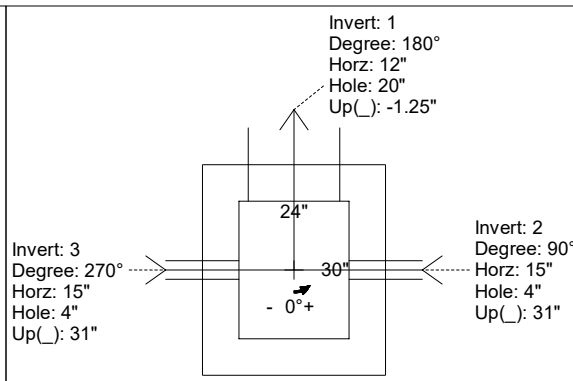
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	560.1'	180°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-1.25"	0"
Invert 2	562.68'	90°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	31"	0"
Invert 3	562.68'	270°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	31"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

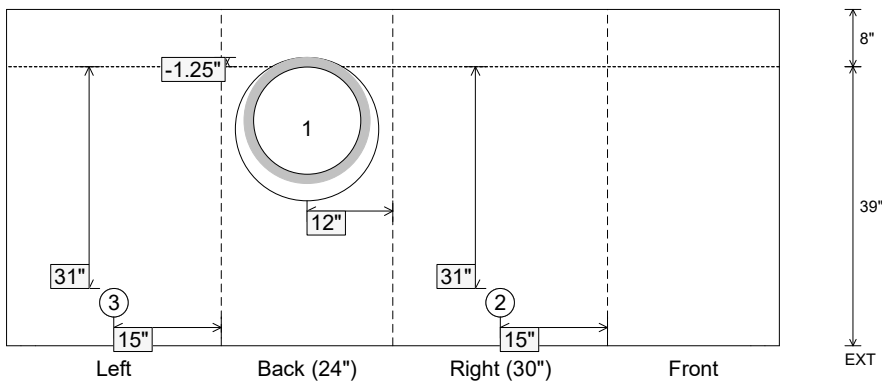
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 39"

Height (Ext): 47"

Weight (Net): 4673 lb

Volume (Net): 1.19cu.yd

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)		Plant: 100	Tech: J. Horsley - A	
Job Location: Indiana, KY Contractor: Louisville Paving and Construction		6/12/2026 3:12:25 PM	PC: J. Jarvis	
Structure ID: 59				
P2 BX024024-08LD08-14		CB FLAT TOP 8"W (HOE KY-210) F/F		
P3) 19.5" - CASTING (cast in) - 2.75" P2) 24" x 24" - CB FLAT TOP 8"W (HOE KY-210) F/F - 8" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 28" 1) This Structure Includes a Cast-in Item - HOE KY-210 Frame (Supplied By Others) 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 20 1) Hole - 18		0 lb 943 lb 3098 lb 0 lb 0 lb 0 lb 0 lb ----- 0 lb Structure Total: 4041 lb	Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC DBI TYPE 14 / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) 4. HOE KY-210 FRAME & GRATE SUPPLIED BY OTHERS - FRAME TO BE CAST INTO FLAT LID 5. LIFTERS: 2 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN 6. TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH	

Job Number:

25-2952

Job Name:

KYTC Jefferson Co Call 106
(251315)

Structure:

59

Note:

HOE KY-210 Frame Supplied By
Others To Be Cast Into Flat Lid



Weight (Net): 9809 lb
Volume (Net): 2.5cu.yd

Job Name: 26-1899 - Gateway 65 Industrial Road

Job Location: Franklin, KY

Contractor: RD Sitework LLC

Plant: 100

6/4/2026 4:34:29 PM

Tech: Jared - F

PC: E. Bardley



Structure ID: 69 ST-DCI

P1 BX036084-08BAVF

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

P3) 24" x 36" - CASTING HEIGHT - 6"

P2) 36" x 84" - CB FLAT TOP 8"W SPEC. (2 - 24x36 HOLES) F/F - 8"

P1) 36" x 84" - BOX BASE 8inW, 8inF, Variable Ht F/n - 36"

1) CASTING - HOE 525 DBL SET FLAT GRATE (F/G/H)

1) 36" x 84" - Conseal CS-102 1.00"

1) 24" x 36" - Conseal CS-102 1.00"

1) Hole - 22

0 lb

2911 lb

9809 lb

442 lb

0 lb

0 lb

0 lb

0 lb

13162 lb

Structure Total: 13162 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. NO STEPS AND NO INVERT CHANNEL.

4. CASTING BY ICAST (HOE 525 DBL SET FLAT GRATE (F/G/H)).

REINFORCING PER ASTM A615 (GRADE 60).

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

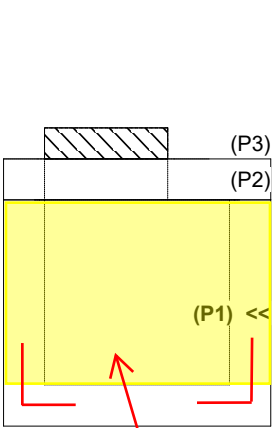
- WALLS (As .47) #5 BARS AT 8" C.C.E.W.

- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

Rim: 717.47' Rim to Invert: 4.2' Slack: 0.4" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	713.27'	90°	50"	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)



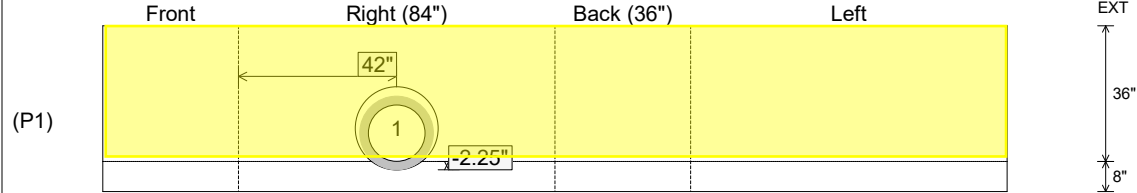
2ND POUR (WALLS)

UPSIDE-DOWN VIEW (int. dimenions)

1ST POUR (FLOOR) = 3,490 LBS

2ND POUR (WALLS) = 6,319 LBS

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 36"

Height (Ext): 44"

Weight (Net): 9809 lb

Volume (Net): 2.5cu.yd

Job Name: 26-1899 - Gateway 65 Industrial Road
Job Location: Franklin, KY
Contractor: RD Sitework LLC

Plant: 100

6/4/2026 4:39:26 PM

Tech: Jared - F
PC: E. Bardley



Structure ID: 69 ST-DCI

P2 BX036084-08LD08SP

CB FLAT TOP 8"W SPEC. (2 - 24x36 HOLES) F/F

P3) 24" x 36" - CASTING HEIGHT - 6"
P2) 36" x 84" - CB FLAT TOP 8"W SPEC. (2 - 24x36 HOLES) F/F - 8"
P1) 36" x 84" - BOX BASE 8inW, 8inF, Variable Ht F/n - 36"
1) CASTING - HOE 525 DBL SET FLAT GRATE (F/G/H)
1) 36" x 84" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 22

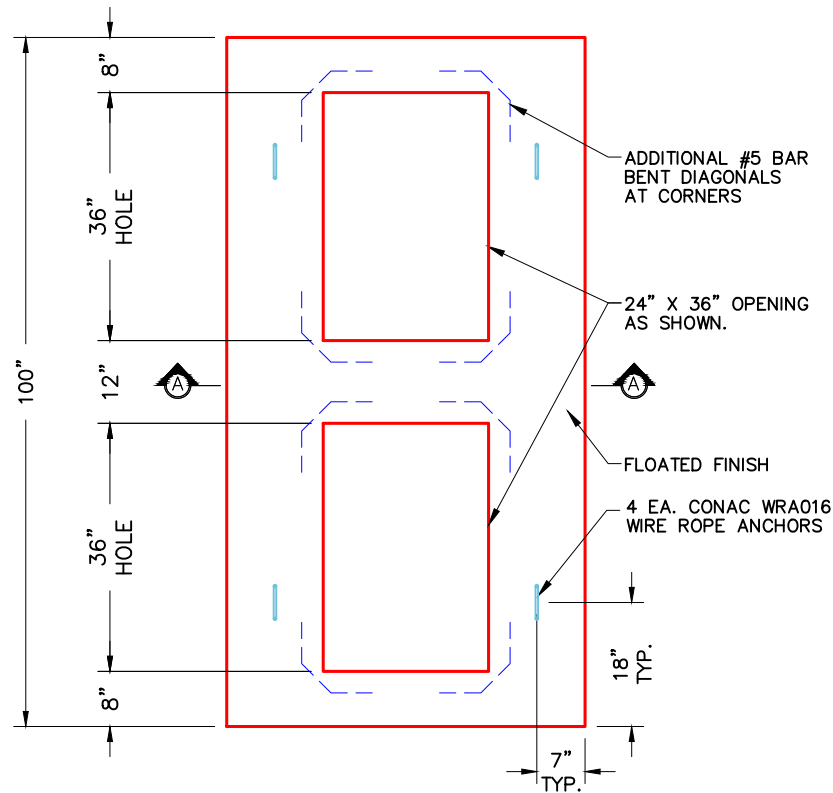
0 lb
2911 lb
9809 lb
442 lb
0 lb
0 lb
0 lb

Structure Total: 13162 lb

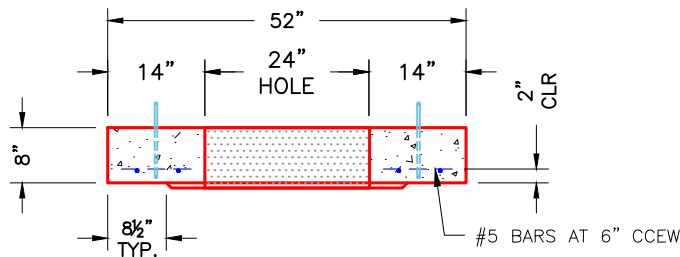
Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE 525 DBL SET FLAT GRATE (F/G/H)).

REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #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.



PLAN VIEW



SECTION A-A

NOTES:

1. MANUFACTURED TO ASTM C-913 (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: 8"

Height (Ext): 8"

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

Job Name: 26-1899 - Gateway 65 Industrial Road

Job Location: Franklin, KY

Contractor: RD Sitework LLC

Plant: 100

6/4/2026 4:34:28 PM

Tech: Jared - F

PC: E. Bardley



Structure ID: 68 ST-DCI

P1 BX036084-08BAVF

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

P3) 24" x 36" - CASTING HEIGHT - 6"

P2) 36" x 84" - CB FLAT TOP 8"W SPEC. (2 - 24x36 HOLES) F/F - 8"

P1) 36" x 84" - BOX BASE 8inW, 8inF, Variable Ht F/n - 42"

1) CASTING - HOE 525 DBL SET FLAT GRATE (F/G/H)

1) 36" x 84" - Conseal CS-102 1.00"

1) 24" x 36" - Conseal CS-102 1.00"

2) Hole - 22

0 lb

2911 lb

10649 lb

442 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 14002 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. NO STEPS AND NO INVERT CHANNEL.

4. CASTING BY ICAST (HOE 525 DBL SET FLAT GRATE (F/G/H)).

REINFORCING PER ASTM A615 (GRADE 60).

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

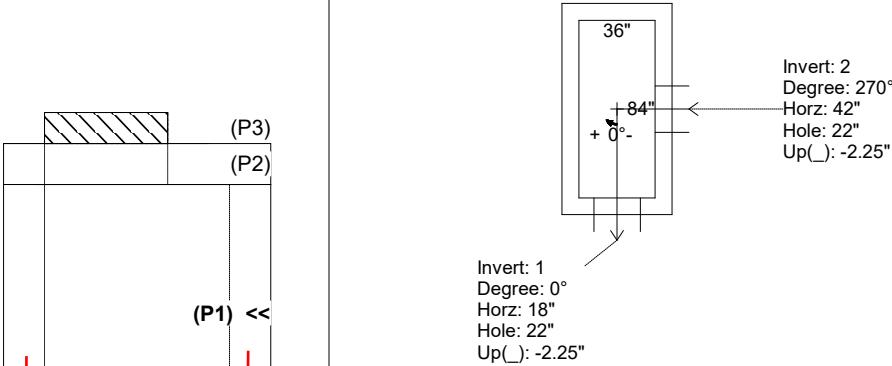
- WALLS (As .47) #5 BARS AT 8" C.C.E.W.

- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

Rim: 717.47' Rim to Invert: 4.68' Slack: 0.16" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	712.79'	0°	26"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"
Invert 2	712.79'	270°	50"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



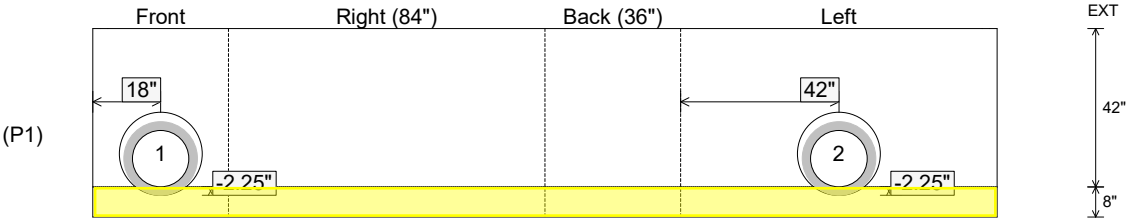
1ST POUR (FLOOR)
STUB #5 L BARS OUT
TOP FLOOR, SPA AT
12" C/C FOR
CONNECTING WALLS

UPSIDE-DOWN VIEW (int. dimenions)

1ST POUR (FLOOR) = 3,490 LBS

2ND POUR (WALLS) = 7,159 LBS

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

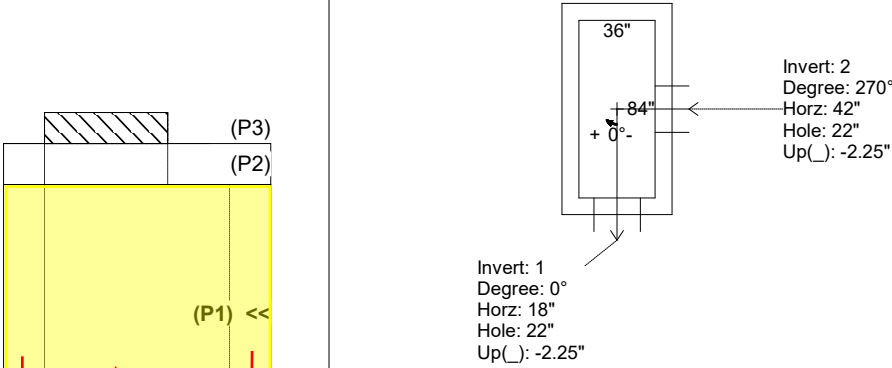
Wall Thickness: 8"
Floor Height: 8"

Height (Int): 42"
Height (Ext): 50"

Weight (Net): 10649 lb
Volume (Net): 2.72cu.yd

Job Name: 26-1899 - Gateway 65 Industrial Road Job Location: Franklin, KY Contractor: RD Sitework LLC					Plant: 100 6/4/2026 4:34:28 PM		Tech: Jared - F PC: E. Bardley				
Structure ID: 68 ST-DCI											
P1 BX036084-08BAVF BOX BASE 8inW, 8inF, Variable Ht F/n											
P3) 24" x 36" - CASTING HEIGHT - 6" P2) 36" x 84" - CB FLAT TOP 8"W SPEC. (2 - 24x36 HOLES) F/F - 8" P1) 36" x 84" - BOX BASE 8inW, 8inF, Variable Ht F/n - 42" 1) CASTING - HOE 525 DBL SET FLAT GRATE (F/G/H) 1) 36" x 84" - Conseal CS-102 1.00" 1) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 22"						0 lb 2911 lb 10649 lb 442 lb 0 lb 0 lb 0 lb ----- 14002 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 525 DBL SET FLAT GRATE (F/G/H)). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #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: 717.47' Rim to Invert: 4.68' Slack: 0.16" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	712.79'	0°	26"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"	
Invert 2	712.79'	270°	50"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

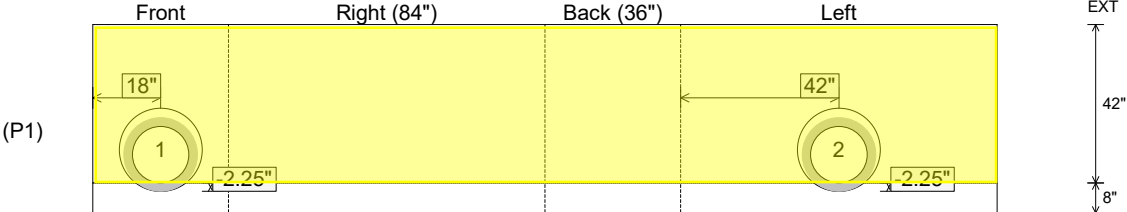
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimenions)

1ST POUR (FLOOR) = 3,490 LBS
2ND POUR (WALLS) = 7,159 LBS

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 42" Height (Ext): 50"	Weight (Net): 10649 lb Volume (Net): 2.72cu.yd
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