

Job Name: 26-2485 855358 Fuqua Development
Job Location: Nicholasville, KY
Contractor: Contech Engineering Solutions

Plant: Beaver Dam

6/5/2026 8:56:49 AM

Tech: S. Felletter

PC: C. Goff



Structure ID: 10-CS-12

P5 MH144LD18SP

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

- P6) 24" - CASTING HEIGHT - 4"
P5) 144" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18"
P4) 144" - MH RISER T/G - 42"
P3) 144" - MH RISER T/G - 78"
P2) 144" - MH RISER T/G - 54"
P1) 144" - MH MONOBASE 14F, Custom Ht T/n - 24"
1) ASSEMBLY REQUIRED - BRACKETS ONLY
1) CVSTENCILING
4) 144" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 48

- 0 lb
23623 lb
22598 lb
37954 lb
29054 lb
39578 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. 4" CASTING BY OTHERS
4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE
5. ICAST TO INSTALL BRACKETS ONLY
6. CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE

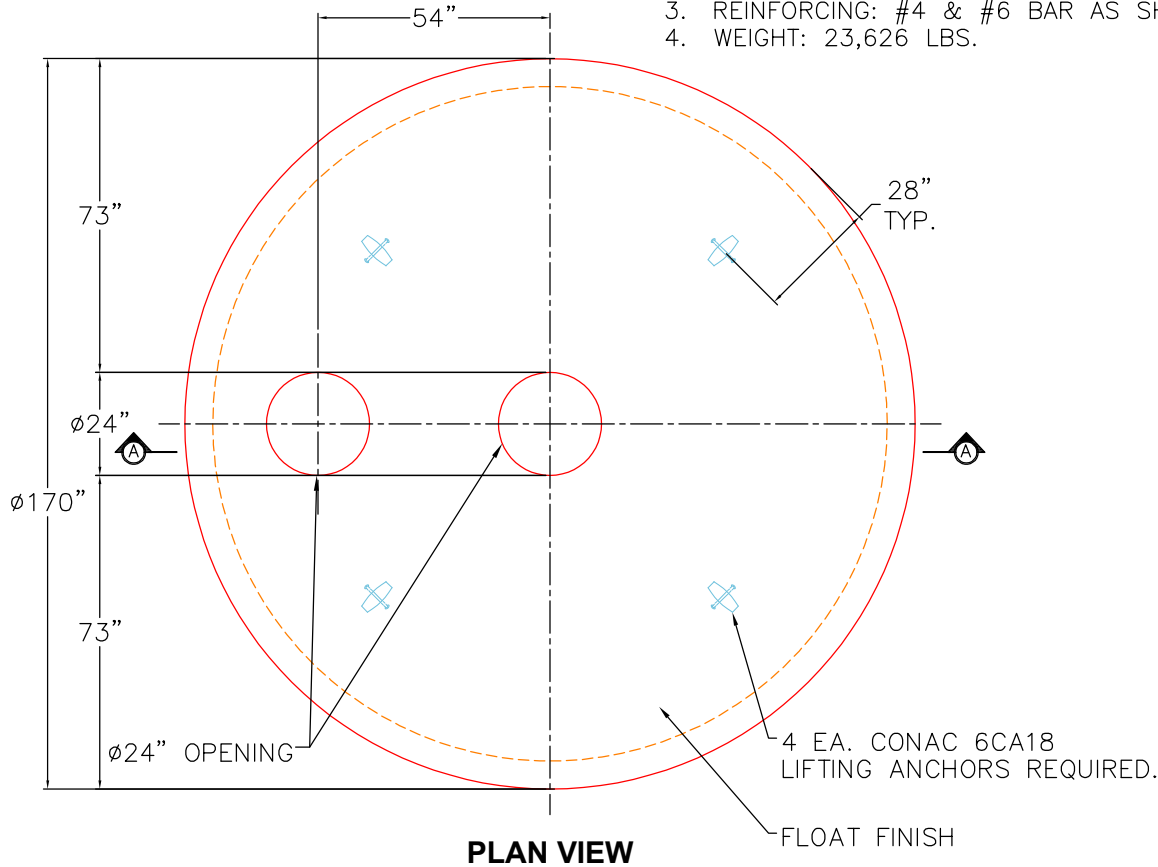
Structure Total:

152807 lb

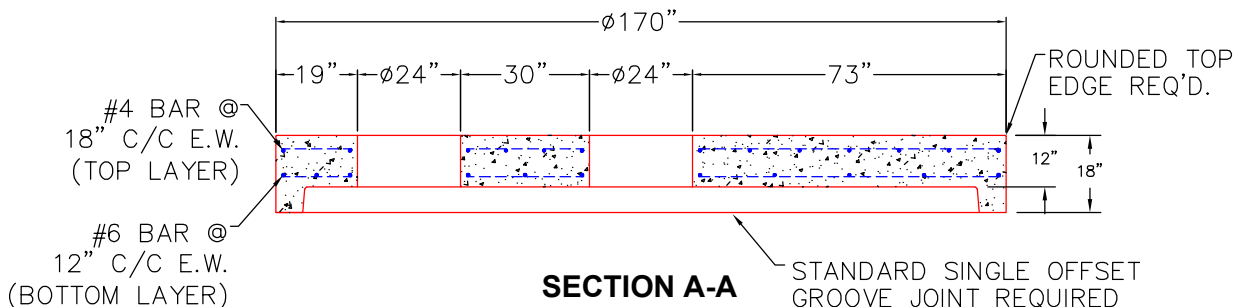
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .36)
- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE 5,000 PSI AT 28 DAYS.
3. REINFORCING: #4 & #6 BAR AS SHOWN (GRADE 60).
4. WEIGHT: 23,626 LBS.



PLAN VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 13"

Height (Ext): 18"

Weight (Net): 23623 lb
Volume (Net): 6.03cu.yd

Job Name: 26-2436 The Drake Dead-End Manhole
Job Location: Columbia, TN
Contractor: Covenant Constructors, LLC

Plant: Beaver Dam
6/4/2026 2:20:01 PM

Tech: S. Felletter
PC: A. Chambers



Structure ID: QL1 SS-MH

P2 MH048LD12X

XYPEX MH FLAT TOP w/24" ECC Hole F/G

- P3) 24" - CASTING HEIGHT - 6"
P2) 48" - XYPEX MH FLAT TOP w/24" ECC Hole F/G - 12"
P1) 48" - MH BASE Custom Ht. w/XYPEX T/n - 29"
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 1155 F/C SANITARY
1) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO

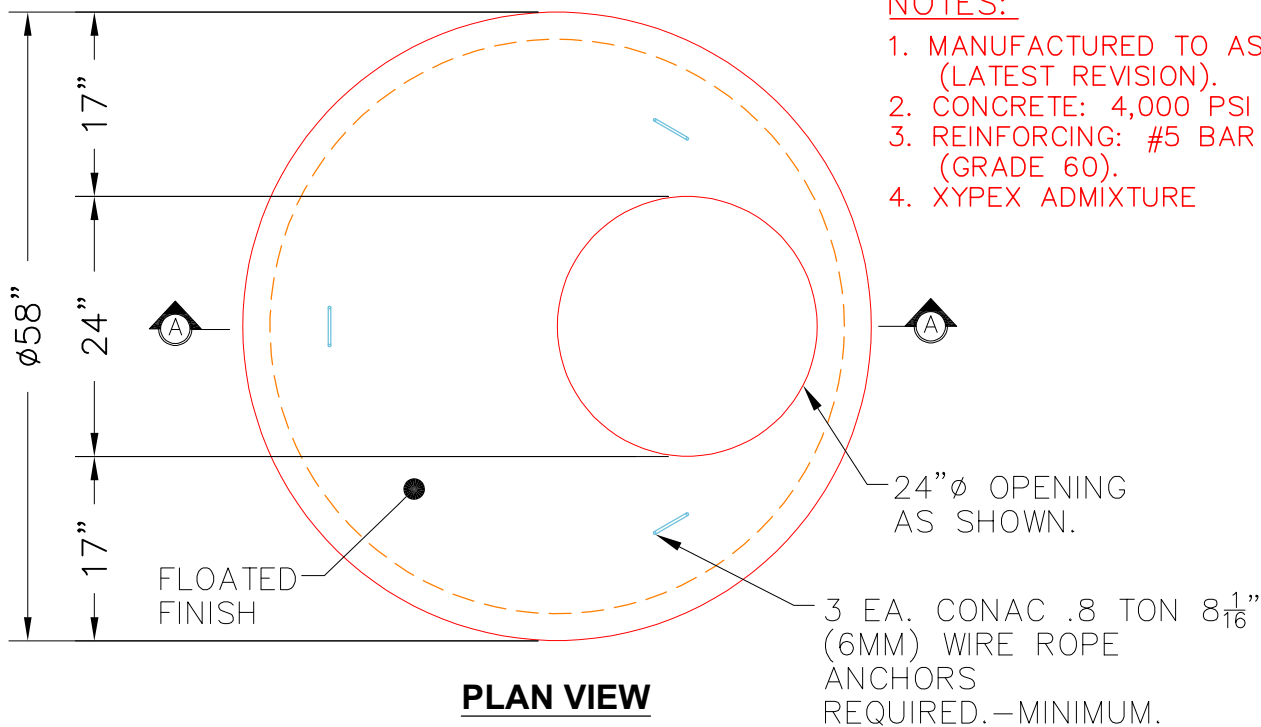
Structure Total:

0 lb
2205 lb
3308 lb
0 lb
0 lb
1440 lb
250 lb
0 lb
0 lb
8 lb

7211 lb

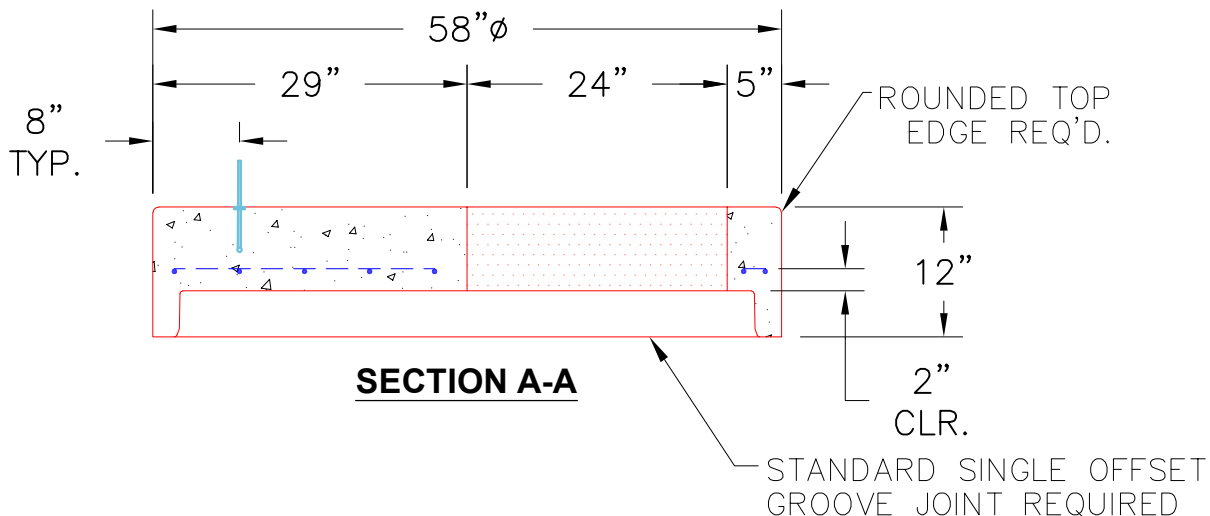
Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (JBS 1155 F/C "SANITARY").
- REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 2205 lb
Volume (Net): 0.56cu.yd

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

Job Location: Shepherdsville, KY

Contractor: Pace Contracting, LLC

Plant: 100

5/29/2026 3:21:08 PM

Tech: Jared - F

PC: J Jarvis



Structure ID: MH-1

P1 MH048BA18

MH BASE T/n

P3) 24" - CASTING HEIGHT - 7"

P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"

P1) 48" - MH BASE T/n - 18"

1) Chimney Seal - Cretex Chimney Seal

1) 48" - MH INVERT CHANNEL - FULL HEIGHT

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

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

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

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

1) PSX - 12-06 NYLO

2) PSX - 8QRS-S NYLO

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

0 lb

1561 lb

2497 lb

10 lb

1440 lb

0 lb

0 lb

271 lb

0 lb

8 lb

13 lb

0 lb

Structure Total: 5800 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. CASTING SUPPLIED BY I-CAST (HOE MC-375 F/C SANITARY).

4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST.

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB = H20 LOADING

- RISER/WALLS (As .12)

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

Rim: 451.2'

Rim to Invert: 2.9'

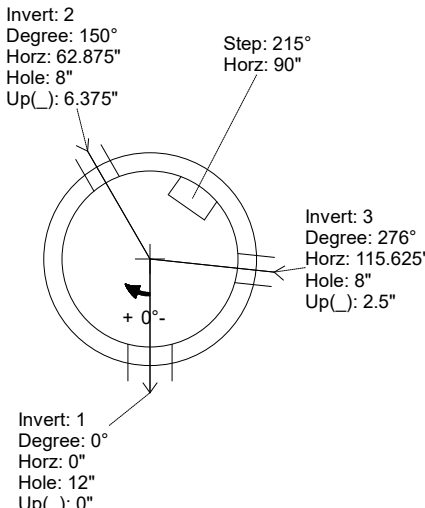
Slack: 0.8"

Sump: 3"

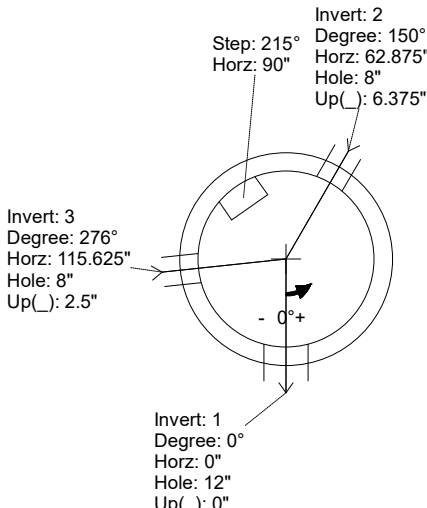
Step Position: 215

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	448.3'	0°	0"	6" DI	6.875"	PSX 12-06 NYLO	12"	12.129"	0"	0"
Invert 2	448.75'	150°	75.875"	4" DI	4.75"	PSX 8QRS-S NYLO	8"	8.038"	6.375"	0"
Invert 3	448.43'	276°	139.75"	4" DI	4.75"	PSX 8QRS-S NYLO	8"	8.038"	2.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

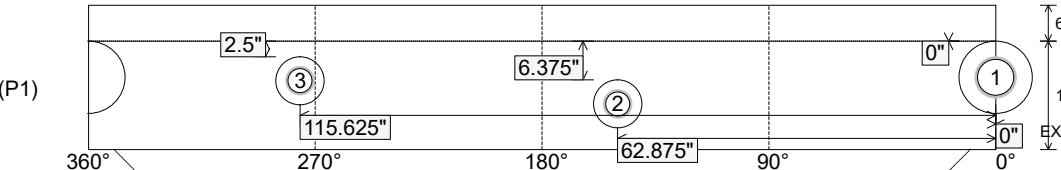
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

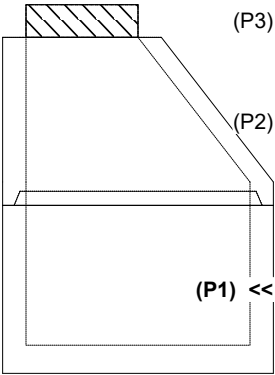
Height (Int): 18"

Height (Ext): 24"

Weight (Net): 2497 lb

Volume (Net): 0.64cu.yd

Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100 5/29/2026 3:21:06 PM		Tech: Jared - F PC: J Jarvis				
Structure ID: MH-39-052A											
P1		MH048BA30		MH BASE T/n							
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 36" P1) 48" - MH BASE T/n - 30" 1) Chimney Seal - Cretex Chimney Seal 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-375-WT F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) Kor-N-Seal2 - S206-22 4) MH Step ML-10-TDS-NCR - 10"						0 lb 3000 lb 3097 lb 10 lb 1440 lb 0 lb 0 lb 271 lb 0 lb 13 lb 0 lb Structure Total: 7831 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING SUPPLIED BY I-CAST (HOE MC-375-WT F/C SANITARY). 4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST. 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: 420.9' Rim to Invert: 5.99' Slack: 0.88" Sump: 2" Step Position: 270°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	414.91'	0°	0"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	0"	0"	
Invert 2	415.01'	104°	52.625"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

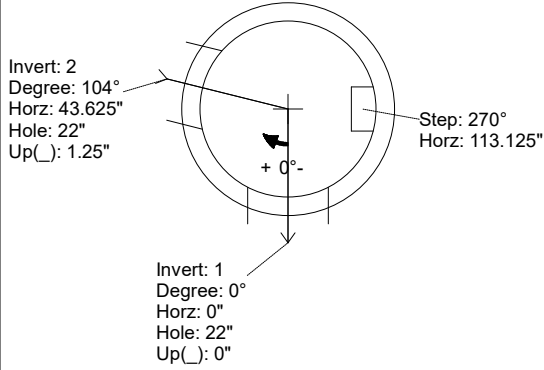


(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

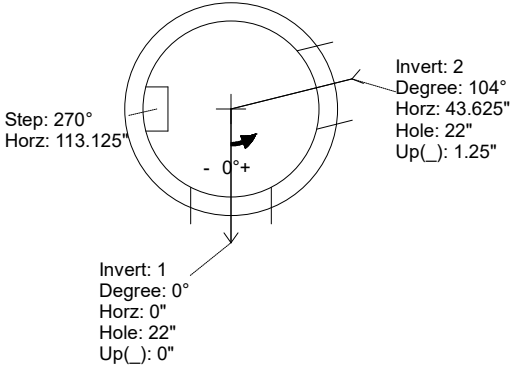


Invert: 2
Degree: 104°
Horz: 43.625"
Hole: 22"
Up(): 1.25"

Step: 270°
Horz: 113.125"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 22"
Up(): 0"

UPSIDE-DOWN VIEW (int. dimensions)

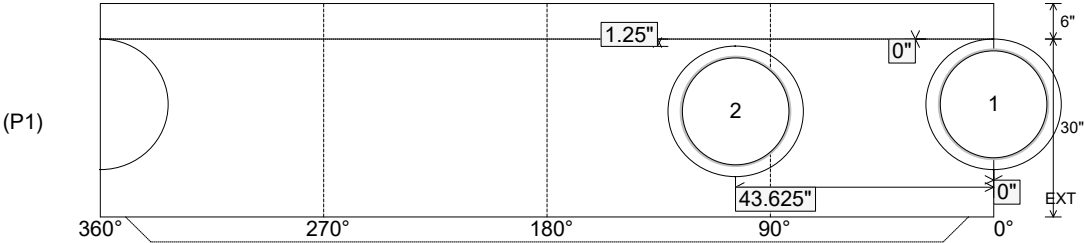


Step: 270°
Horz: 113.125"

Invert: 2
Degree: 104°
Horz: 43.625"
Hole: 22"
Up(): 1.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 22"
Up(): 0"

INSIDE WALL DIMENSIONS



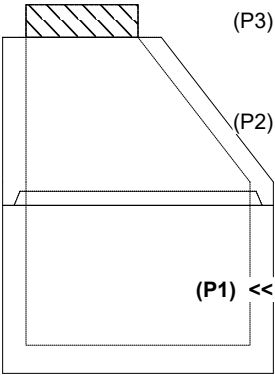
(P1)

360° 270° 180° 90° 0°

1.25" 0" 43.625" 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): 3097 lb Volume (Net): 0.79cu.yd
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Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100 5/29/2026 3:21:06 PM		Tech: Jared - F PC: J Jarvis						
Structure ID: MH-39-052A													
P1		MH048BA30		MH BASE T/n									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 36" P1) 48" - MH BASE T/n - 30" 1) Chimney Seal - Cretex Chimney Seal 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-375-WT F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) Kor-N-Seal2 - S206-22 4) MH Step ML-10-TDS-NCR - 10"						0 lb 3000 lb 3097 lb 10 lb 1440 lb 0 lb 0 lb 271 lb 0 lb 13 lb 0 lb ----- Structure Total: 7831 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING SUPPLIED BY I-CAST (HOE MC-375-WT F/C SANITARY). 4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST. 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: 420.9' Rim to Invert: 5.99' Slack: 0.88" Sump: 2" Step Position: 270°													
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1	414.91'	0°	0"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	0"	0"			
Invert 2	415.01'	104°	52.625"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	1.25"	0"			
Invert 3													
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													

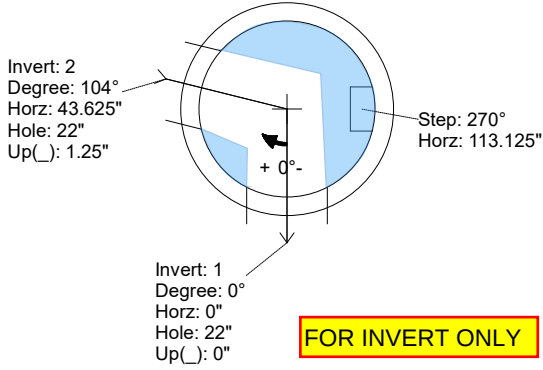


(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)



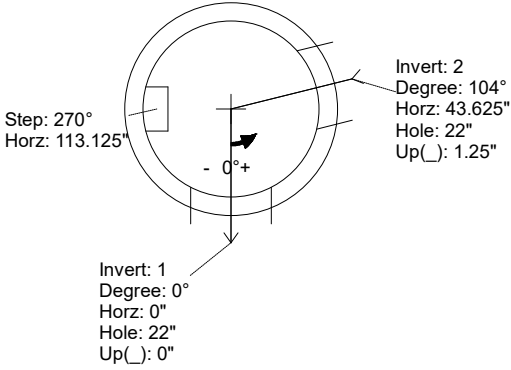
Invert: 2
Degree: 104°
Horz: 43.625"
Hole: 22"
Up(): 1.25"

Step: 270°
Horz: 113.125"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 22"
Up(): 0"

FOR INVERT ONLY

UPSIDE-DOWN VIEW (int. dimensions)

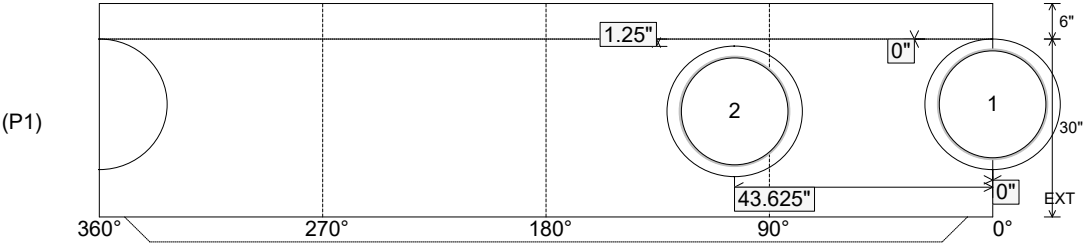


Step: 270°
Horz: 113.125"

Invert: 2
Degree: 104°
Horz: 43.625"
Hole: 22"
Up(): 1.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 22"
Up(): 0"

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

1.25" 0" 43.625" 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): 3097 lb Volume (Net): 0.79cu.yd
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Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100		Tech: Jared - F					
					5/29/2026 3:21:06 PM		PC: J Jarvis					
Structure ID: MH-39-052												
P1 MH048BA36			MH BASE T/n									
P6) 24" - CASTING HEIGHT - 7" P5) 48" - ECC CONE w/ 24" HOLE F/G - 30" P4) 48" - MH RISER T/G - 24" P3) 48" - MH RISER T/G - 60" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 36" 1) Chimney Seal - Cretex Chimney Seal 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-375 F/C Sanitary 4) 48" - Conseal CS-102 1.00" (Double) 2) Kor-N-Seal2 - S206-22 16) MH Step ML-10-TDS-NCR - 10"						0 lb 2050 lb 1677 lb 4192 lb 4192 lb 3516 lb 10 lb 0 lb 0 lb 1440 lb 271 lb 0 lb 13 lb 0 lb ----- Structure Total: 17359 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING SUPPLIED BY I-CAST (HOE MC-375 F/C SANITARY). 4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST. . 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: 433.28' Rim to Invert: 18.15' Slack: 2.8" Sump: 2" Step Position: 180°												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	415.13'	0°	0"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	0"	0"		
Invert 2	415.23'	268°	135.625"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	1.25"	0"		
Invert 3												
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 36" Height (Ext): 42"	Weight (Net): 3516 lb Volume (Net): 0.9cu.yd
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Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion Job Location: Shepherdsville, KY Contractor: Pace Contracting, LLC					Plant: 100		Tech: Jared - F					
					5/29/2026 3:21:06 PM		PC: J Jarvis					
Structure ID: MH-39-052												
P1 MH048BA36			MH BASE T/n									
P6) 24" - CASTING HEIGHT - 7" P5) 48" - ECC CONE w/ 24" HOLE F/G - 30" P4) 48" - MH RISER T/G - 24" P3) 48" - MH RISER T/G - 60" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 36" 1) Chimney Seal - Cretex Chimney Seal 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-375 F/C Sanitary 4) 48" - Conseal CS-102 1.00" (Double) 2) Kor-N-Seal2 - S206-22 16) MH Step ML-10-TDS-NCR - 10"						0 lb 2050 lb 1677 lb 4192 lb 4192 lb 3516 lb 10 lb 0 lb 0 lb 1440 lb 271 lb 0 lb 13 lb 0 lb ----- Structure Total: 17359 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING SUPPLIED BY I-CAST (HOE MC-375 F/C SANITARY). 4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST. . 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: 433.28' Rim to Invert: 18.15' Slack: 2.8" Sump: 2" Step Position: 180°												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	415.13'	0°	0"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	0"	0"		
Invert 2	415.23'	268°	135.625"	18" PVC F679	18.701"	Kor-N-Seal2 S206-22	22"	22.854"	1.25"	0"		
Invert 3												
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												

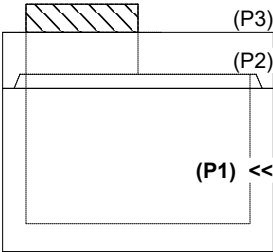
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

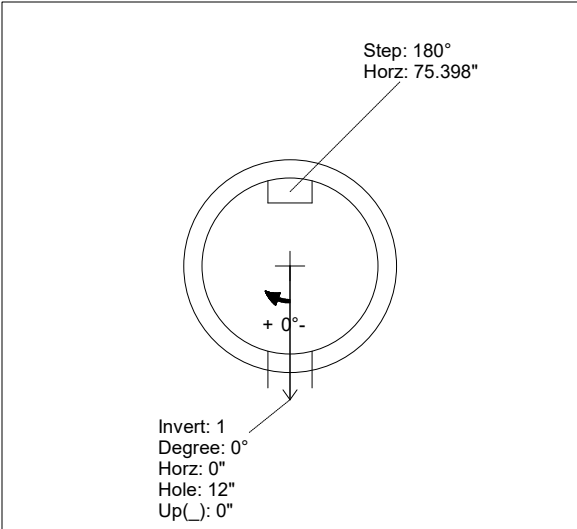
INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 36" Height (Ext): 42"	Weight (Net): 3516 lb Volume (Net): 0.9cu.yd
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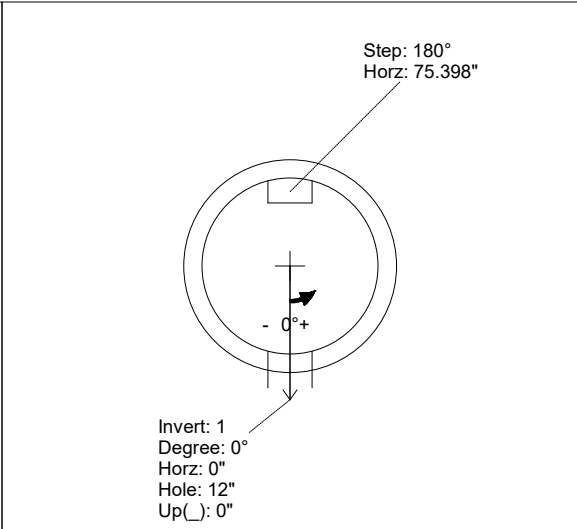
Job Name: 26-2436 The Drake Dead-End Manhole Job Location: Columbia, TN Contractor: Covenant Constructors, LLC				Plant: Beaver Dam 6/4/2026 2:19:44 PM		Tech: S. Felletter PC: A. Chambers				
Structure ID: QL1 SS-MH										
P1 MH048BAVFX		MH BASE Custom Ht, w/XYPEX T/n								
P3) 24" - CASTING HEIGHT - 6" P2) 48" - XYPEX MH FLAT TOP w/24" ECC Hole F/G - 12" P1) 48" - MH BASE Custom Ht, w/XYPEX T/n - 29" 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 1155 F/C SANITARY 1) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 NYLO						0 lb 2205 lb 3308 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 8 lb ----- Structure Total: 7211 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (JBS 1155 F/C "SANITARY"). 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: 594.1' Rim to Invert: 3.8' Slack: 0.6" Sump: 2" Step Position: 180°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	590.3'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



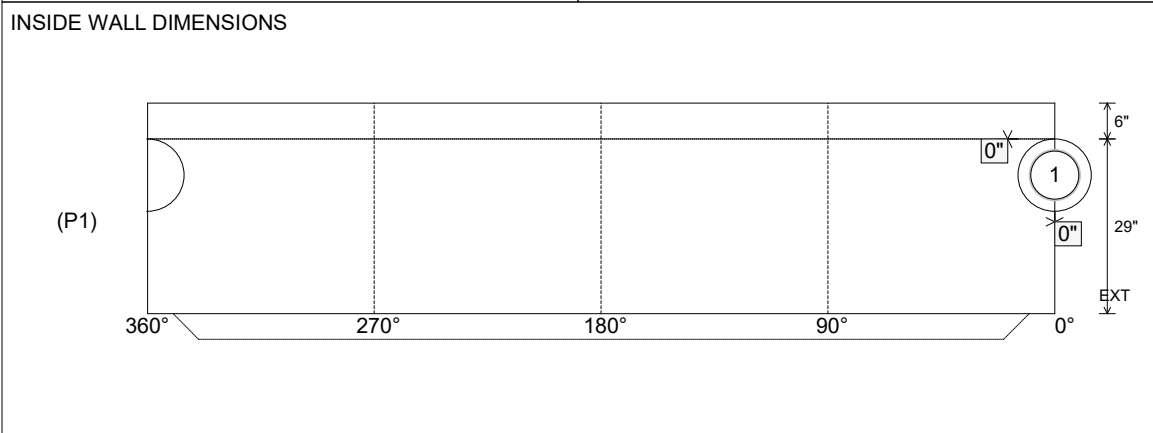
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 29" Height (Ext): 35"	Weight (Net): 3308 lb Volume (Net): 0.84cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 26-2436 The Drake Dead-End Manhole

Job Location: Columbia, TN

Contractor: Covenant Constructors, LLC

Plant: Beaver Dam

6/4/2026 2:19:44 PM

Tech: S. Felletter

PC: A. Chambers

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: QL1 SS-MH

P1 MH048BAVFX

MH BASE Custom Ht, w/XYPEX T/n

P3) 24" - CASTING HEIGHT - 6"

P2) 48" - XYPEX MH FLAT TOP w/24" ECC Hole F/G - 12"

P1) 48" - MH BASE Custom Ht, w/XYPEX T/n - 29"

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 1155 F/C SANITARY

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

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

1) PSX - 12-08 NYLO

0 lb

2205 lb

3308 lb

0 lb

0 lb

1440 lb

250 lb

0 lb

0 lb

8 lb

Structure Total: 7211 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. CASTING BY ICAST (JBS 1155 F/C "SANITARY").

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: 594.1'

Rim to Invert: 3.8'

Slack: 0.6"

Sump: 2"

Step Position: 180°

Invert channel drawing

Full height invert

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	590.3'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

Step: 180°

Horz: 75.398"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 12"

Up(): 0"

(P3)

(P2)

(P1) <<

UPSIDE-DOWN VIEW (int. dimensions)

Step: 180°

Horz: 75.398"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 12"

Up(): 0"

INSIDE WALL DIMENSIONS

360°

270°

180°

90°

0°

6"

29"

EXT

0"

0"

1

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

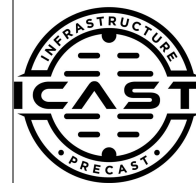
Floor Height: 6"

Height (Int): 29"

Height (Ext): 35"

Weight (Net): 3308 lb

Volume (Net): 0.84cu.yd



Weight (Net): 3116 lb
Volume (Net): 0.8cu.yd

Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A14

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 26-2370 - Greystone Subd.
Job Location: Madisonville, KY
Contractor: Steve Pleasant Excavating, LLC

Plant: 100

5/25/2026 11:01:17 AM

Tech: Jared - F
PC: E. Bradley



Structure ID: 8 SS-MH

P1 MH048BA30

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
P2) 48" - ECC CONE w/ 24" HOLE F/G - 42"
P1) 48" - MH BASE T/n - 30"
1) 48" - MH INVERT CHANNEL - FULL HEIGHT
1) JOINT WRAP - 12" WD x 048" MAC WRAP
1) Inflow Dish FOR MC-315
1) CASTING - HOE MC-315 F/C Sanitary
1) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
4) PSX - 12-06 NYLO
6) MH Step ML-10-TDS-NCR - 10"

0 lb
3200 lb
3187 lb
1440 lb
0 lb
2 lb
258 lb
0 lb
0 lb
8 lb
32 lb
0 lb

Structure Total: 8127 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

REINFORCING PER ASTM A615 (GRADE 60).

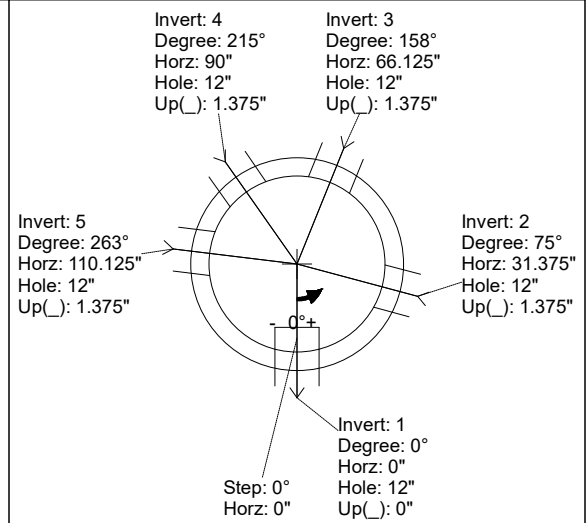
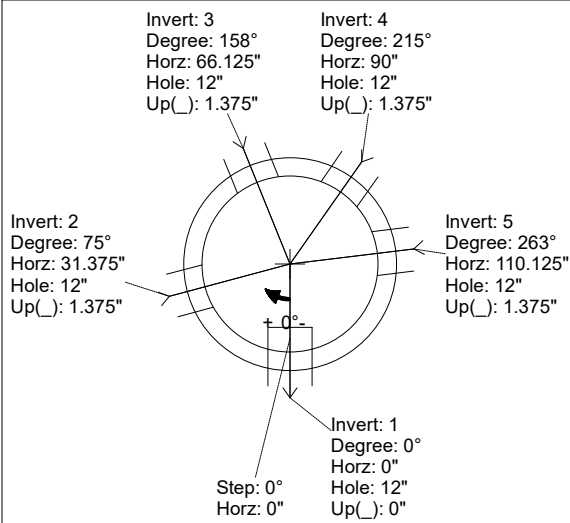
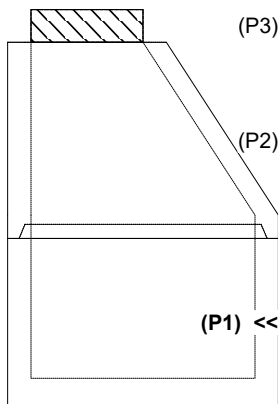
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 431' Rim to Invert: 6.6' Slack: 2.204" Sump: 2.004" Step Position: 0°

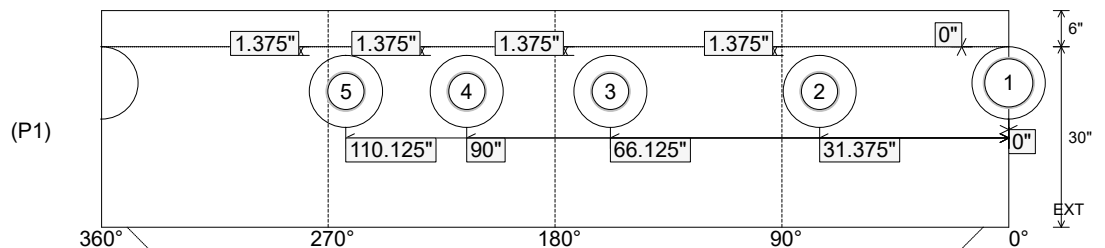
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	424.4'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	424.6'	75°	38"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 3	424.6'	158°	80"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 4	424.6'	215°	108.875"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 5	424.6'	263°	133.125"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
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): 3187 lb
Volume (Net): 0.81cu.yd

Job Name: 26-2370 - Greystone Subd.
Job Location: Madisonville, KY
Contractor: Steve Pleasant Excavating, LLC

Plant: 100

5/25/2026 11:01:17 AM

Tech: Jared - F
PC: E. Bradley



Structure ID: 8 SS-MH

P1 MH048BA30

MH BASE T/n

P3) 24" - CASTING HEIGHT - 7"
P2) 48" - ECC CONE w/ 24" HOLE F/G - 42"
P1) 48" - MH BASE T/n - 30"

1) 48" - MH INVERT CHANNEL - FULL HEIGHT

- 1) JOINT WRAP - 12" WD x 048" MAC WRAP
- 1) Inflow Dish FOR MC-315
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Con Seal CS-102 1.00" (Double)
- 1) 24" - Con Seal CS-102 1.00" (Double)
- 1) PSX - 12-08 NYLO
- 4) PSX - 12-06 NYLO
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb
3200 lb
3187 lb
1440 lb
0 lb
2 lb
258 lb
0 lb
0 lb
8 lb
32 lb
0 lb

Structure Total: 8127 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

REINFORCING PER ASTM A615 (GRADE 60).

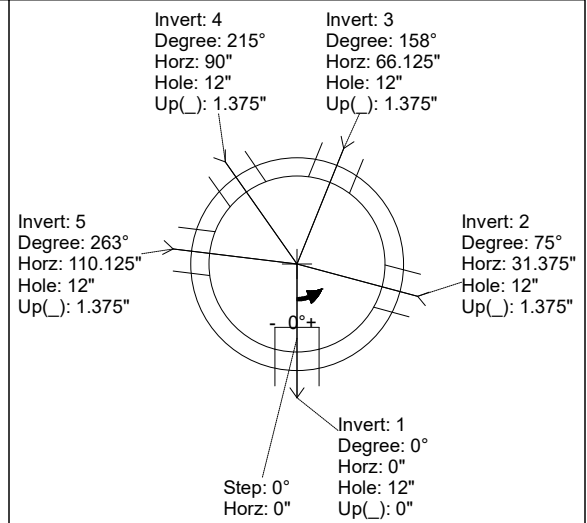
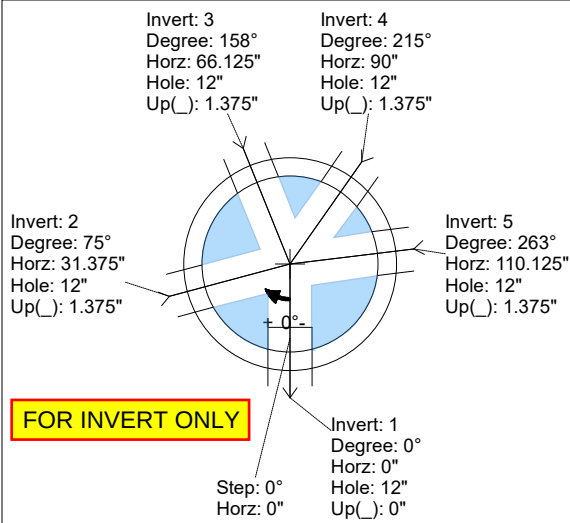
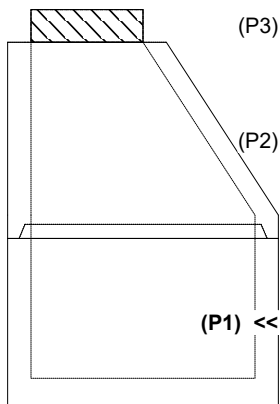
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 431' Rim to Invert: 6.6' Slack: 2.204" Sump: 2.004" Step Position: 0°

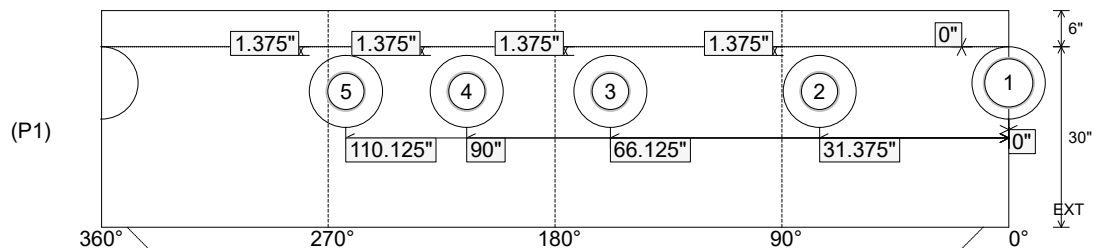
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	424.4'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	424.6'	75°	38"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 3	424.6'	158°	80"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 4	424.6'	215°	108.875"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 5	424.6'	263°	133.125"	6" PVC SCH40	6.625"	PSX 12-06 NYLO	12"	12.129"	1.375"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

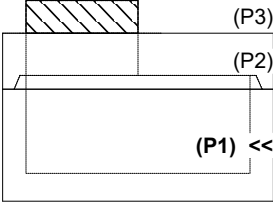
Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

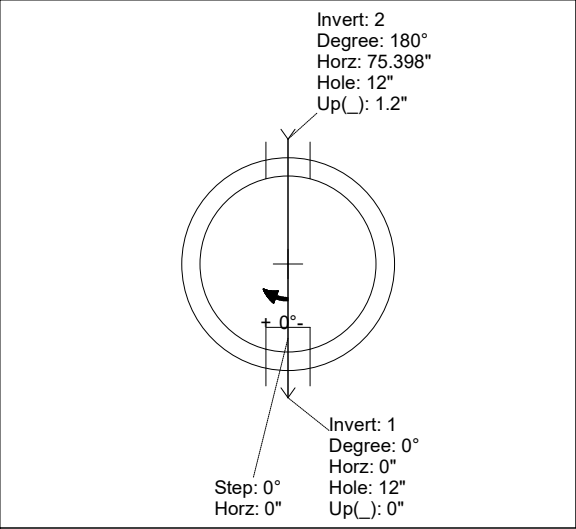
Height (Int): 30"
Height (Ext): 36"

Weight (Net): 3187 lb
Volume (Net): 0.81cu.yd

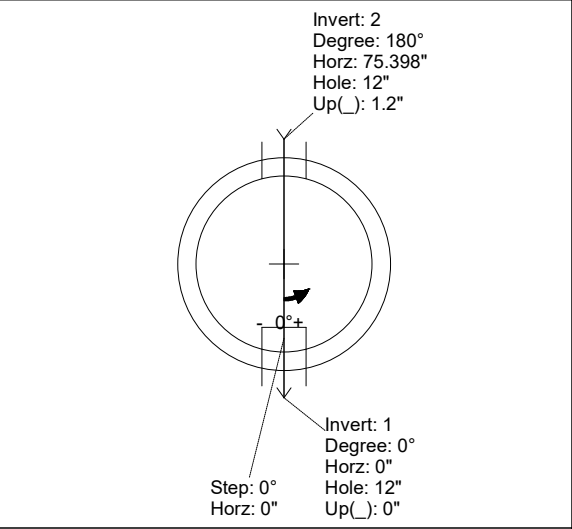
Job Name: 26-2078 Lincoln & Coleman Street Sewer Job Location: Lawrenceburg, KY Contractor: Shouse Excavating					Plant: Beaver Dam 5/14/2026 1:16:00 PM		Tech: S. Felletter PC: C. Goff				
Structure ID: A2 SS-MH											
P1 MH048BA18		MH BASE T/n									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12" P1) 48" - MH BASE T/n - 18" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 1) MH Step ML-10-TDS-NCR - 10"						0 lb 1561 lb 2492 lb 0 lb 0 lb 1440 lb 258 lb 0 lb 16 lb 0 lb ----- Structure Total: 5767 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). 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: 806.51' Rim to Invert: 3.14' Slack: 2.68" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	803.37'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	803.47'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



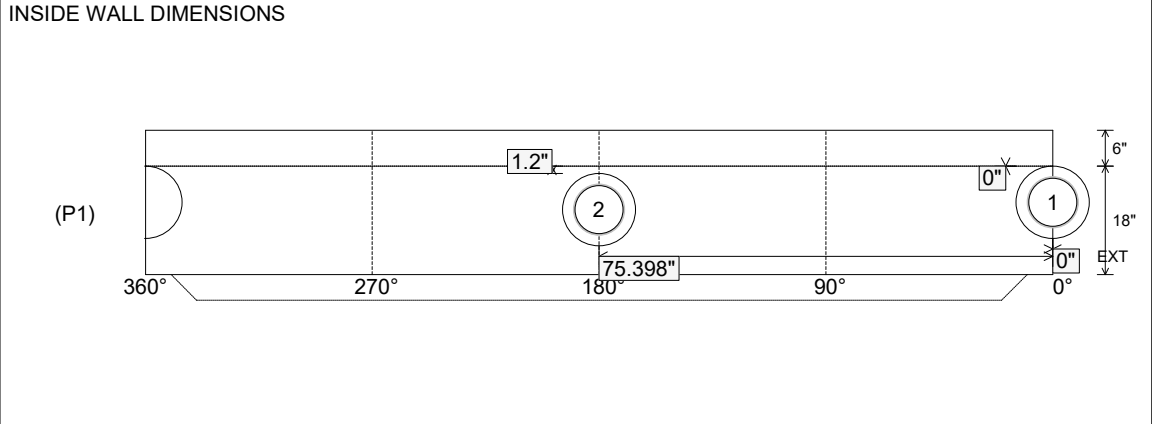
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

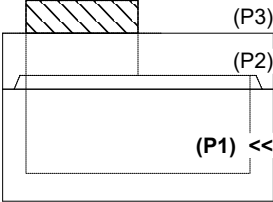


INSIDE WALL DIMENSIONS

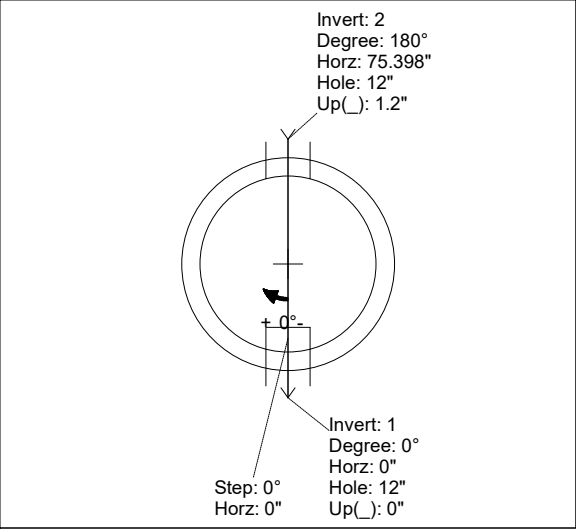


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 2492 lb Volume (Net): 0.64cu.yd
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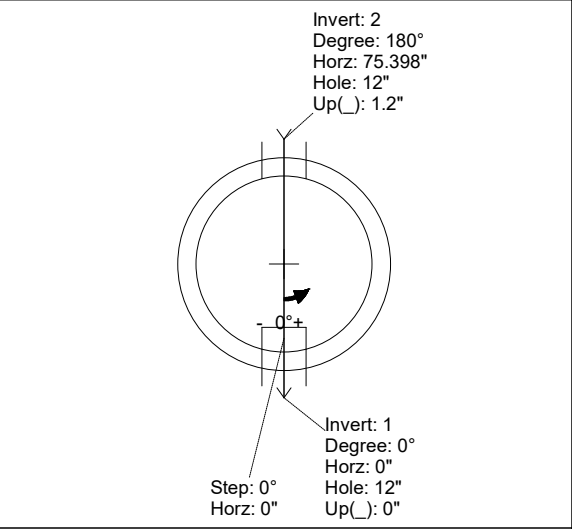
Job Name: 26-2078 Lincoln & Coleman Street Sewer Job Location: Lawrenceburg, KY Contractor: Shouse Excavating					Plant: Beaver Dam 5/14/2026 1:16:00 PM		Tech: S. Felletter PC: C. Goff				
Structure ID: A2 SS-MH											
P1 MH048BA18			MH BASE T/n								
P3) 24" - CASTING HEIGHT - 7" P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12" P1) 48" - MH BASE T/n - 18" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 1) MH Step ML-10-TDS-NCR - 10" Structure Total: 5767 lb						0 lb 1561 lb 2492 lb 0 lb 0 lb 1440 lb 258 lb 0 lb 16 lb 0 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). 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. Invert channel drawing Full height invert			
Rim: 806.51' Rim to Invert: 3.14' Slack: 2.68" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	803.37'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	803.47'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



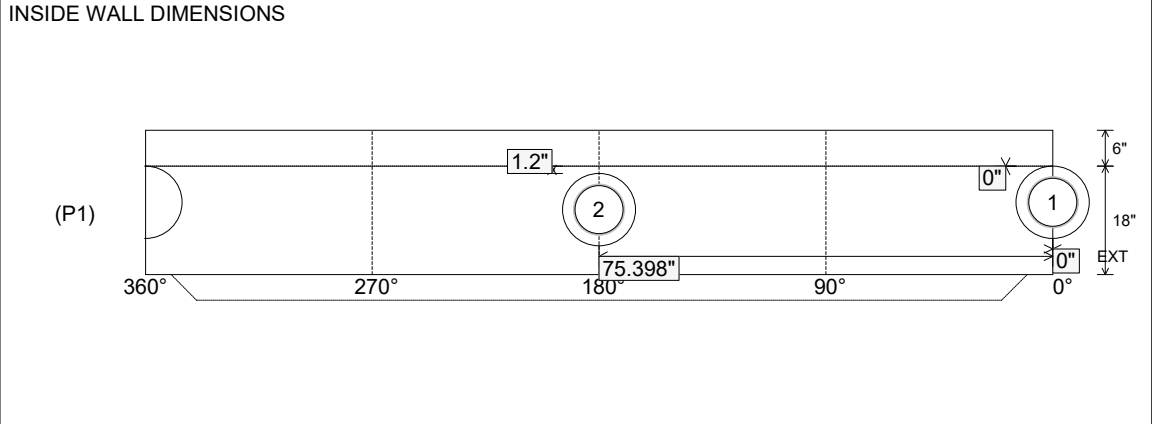
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 18"
Height (Ext): 24"

Weight (Net): 2492 lb
Volume (Net): 0.64cu.yd

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements

Job Location: Louisville, KY 40208

Contractor: Louisville Paving and Construction

Plant: 100

4/30/2026 1:21:50 PM

Tech: Jared - F

PC: J. Jarvis



Structure ID: S116

P1 MH048BAVF

MH BASE Custom Ht T/n

P4) 32" x 32" - CASTING HEIGHT - 3"

P3) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12"

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

P1) 48" - MH BASE Custom Ht T/n - 55"

1) CASTING - HOE 595 F/G

2) 48" - Conseal CS-102 1.00"

1) 32" x 32" - Conseal CS-102 1.00"

2) Hole - 30

0 lb

1629 lb

3353 lb

4540 lb

376 lb

0 lb

0 lb

0 lb

9899 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. NO STEPS AND NO INVERT CHANNEL.

4. CASTING BY ICAST (HOE 595 F/G)

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:

9899 lb

Rim: 455.25'

Rim to Invert: 9.85'

Slack: 0.2"

Sump: 0"

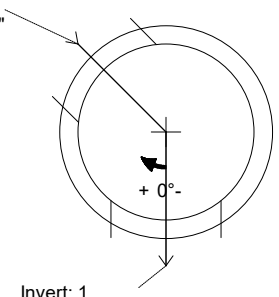
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	445.4'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	-1.875"	0"
Invert 2	445.4'	135°	68.375"	24" HDPE	27.8"	Hole 30	30"	32.406"	-1.875"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

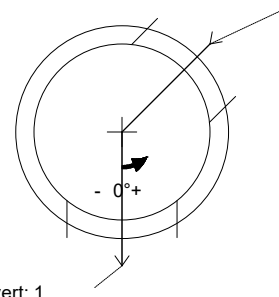
UPSIDE-DOWN VIEW (int. dimenions)

Invert: 2
Degree: 135°
Horz: 56.5"
Hole: 30"
Up(): -1.875"



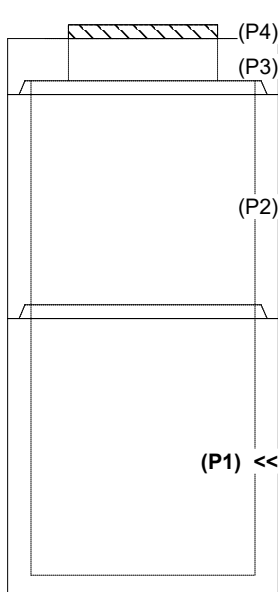
Invert: 1
Degree: 0°
Horz: 0"
Hole: 30"
Up(): -1.875"

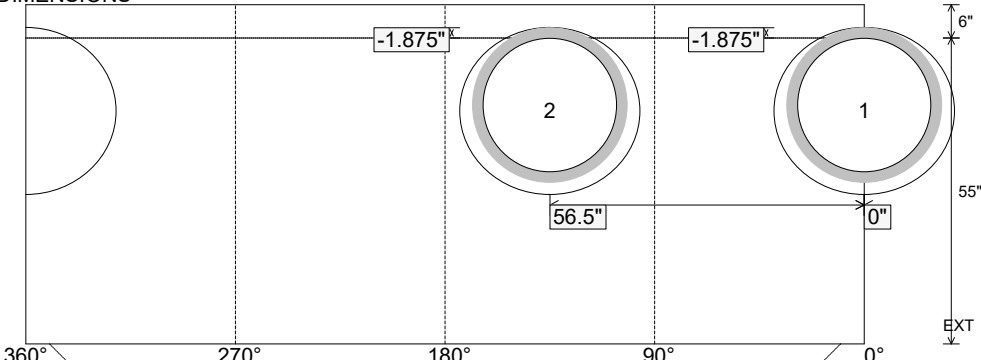
Invert: 2
Degree: 135°
Horz: 56.5"
Hole: 30"
Up(): -1.875"



Invert: 1
Degree: 0°
Horz: 0"
Hole: 30"
Up(): -1.875"

INSIDE WALL DIMENSIONS





Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

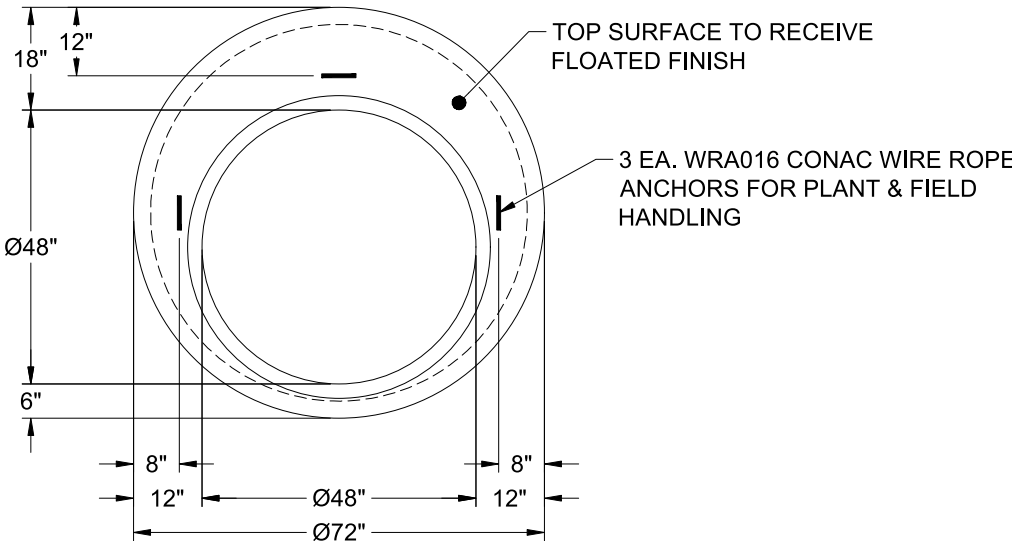
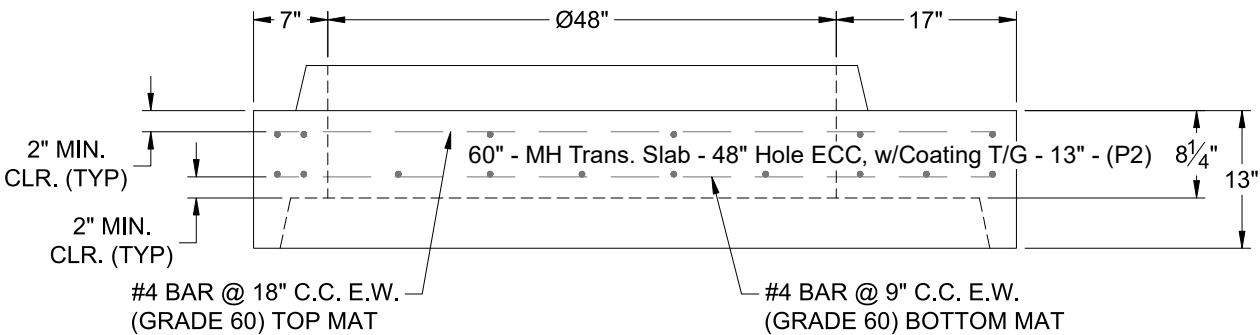
Floor Height: 6"

Height (Int): 55"

Height (Ext): 61"

Weight (Net): 4540 lb

Volume (Net): 1.16cu.yd

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting		Plant: 100 6/7/2026 1:26:09 PM	Tech: J. Horsley PC: C. Goff	
Structure ID: MH A15 P2 MH060TS13-48ECC		MH Trans. Slab - 48" Hole ECC, w/Coating T/G		
P5) 24" - CASTING HEIGHT - 7" P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 36" P3) 48" - MH RISER w/COATING T/G - 24" P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 68" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) JOINT WRAP - 12" WD x 048" MAC WRAP 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 10) MH Step ML-10-TDS-NCR - 10" 238.97 SqFt) Carboline Bitumastic 300M [EXT]		0 lb 2251 lb 1677 lb 1928 lb 10066 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb ----- 18615 lb	Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP): - TOP MAT: #4 BAR @ 18" C.C. E.W. (GRADE 60) - BOTTOM MAT: #4 BAR @ 9" C.C. E.W. (GRADE 60) 4. CARBOLINE 300M EXTERIOR COATING REQUIRED 5. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS 6. LIFTERS: 3 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING 7. TOP SURFACE TO RECEIVE FLOATED FINISH	
				
				
Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 6"	Height (Ext): 13"	Weight (Net): 1928 lb Volume (Net): 0.49cu.yd

Job Number:

25-3579

Job Name:

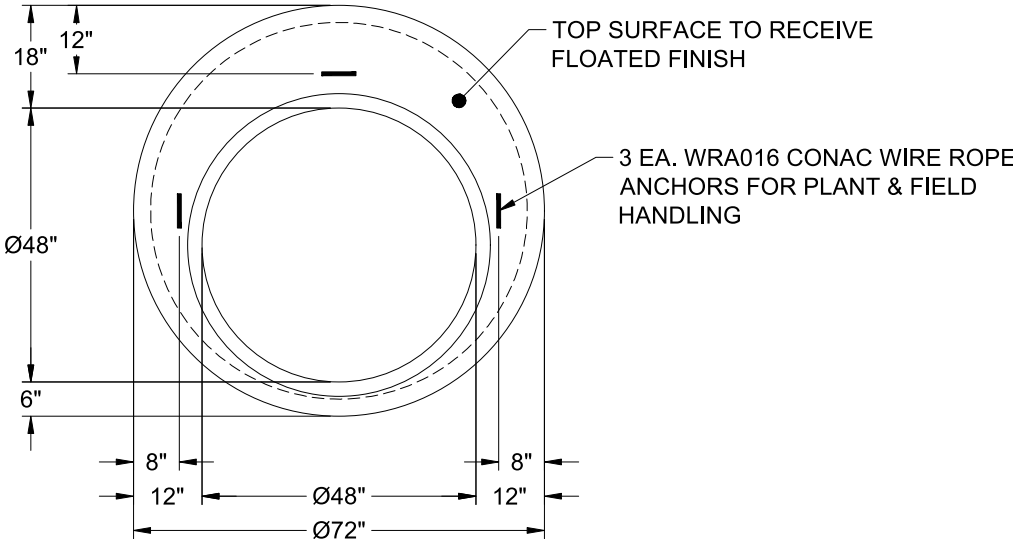
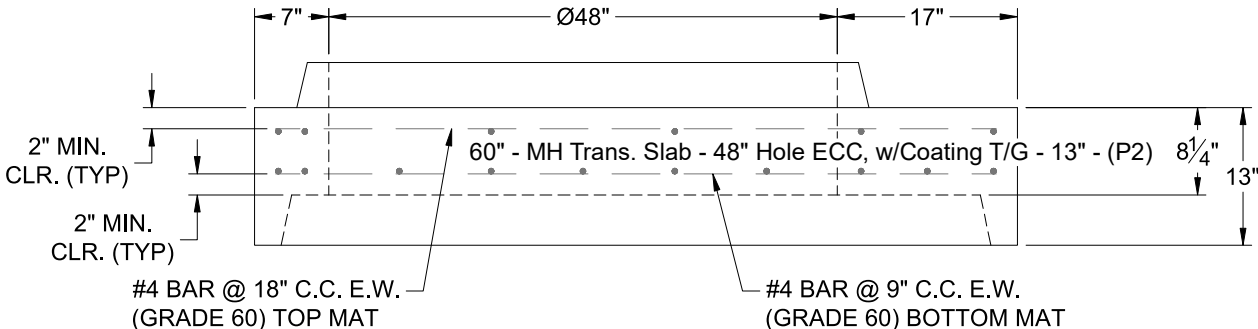
Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A15

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2		Plant: 100	Tech: J. Horsley	
Job Location: Danville, KY		6/7/2026 1:26:07 PM	PC: C. Goff	
Contractor: Hubert Excavating & Contracting				
Structure ID: MH A14				
P2 MH060TS13-48ECC		MH Trans. Slab - 48" Hole ECC, w/Coating T/G		
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 6" P3) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42" P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 72" 1) JOINT WRAP - 12" WD x 060" MAC WRAP 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) JOINT WRAP - 12" WD x 048" MAC WRAP 1) SECONDARY POUR - Extended Flange 1) 60" - Conseal CS-102 1.00" (Double) 1) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 1) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10" 220.64 SqFt) Carboline Bitumastic 300M [EXT]		0 lb 405 lb 3116 lb 1928 lb 10426 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 8 lb 0 lb 0 lb ----- 18577 lb	Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP): - TOP MAT: #4 BAR @ 18" C.C. E.W. (GRADE 60) - BOTTOM MAT: #4 BAR @ 9" C.C. E.W. (GRADE 60) 4. CARBOLINE 300M EXTERIOR COATING REQUIRED 5. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS 6. LIFTERS: 3 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING 7. TOP SURFACE TO RECEIVE FLOATED FINISH	
				
				
Coating (Int): Coating (Ext): Carboline Bitumastic 300M		Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 6"	Height (Ext): 13" Weight (Net): 1928 lb Volume (Net): 0.49cu.yd

Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A14

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:50 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A13										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 8) MH Step ML-10-TDS-NCR - 10" 225.5 SqFt) Carboline Bitumastic 300M [EXT] <td colspan="2"> 0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb Structure Total: 19282 lb </td> <td colspan="5"> Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS </td>				0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb Structure Total: 19282 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 899.98' Rim to Invert: 10.095' Slack: 0.355" Sump: 2.215" Step Position: 245°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.885'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.935'	130°	81.625"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P4)

(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

FIRST POUR (BASE):
6,289 LBS

SECOND POUR (EXT. FLANGE):
1,167 LBS

UPSIDE-DOWN VIEW (int. dimenions)

Invert: 2
Degree: 130°
Horz: 68.125"
Hole: 33.5"
Up(): 0.625"

Step: 245°
Horz: 128.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 33.5"
Up(): 0"

INSIDE WALL DIMENSIONS

(P1)

0.625"

0"

68.125"

0"

8"

43"

EXT

360°

270°

180°

90°

0°

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 43" Height (Ext): 51"	Weight (Net): 7456 lb Volume (Net): 1.9cu.yd
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Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:50 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A13										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 8) MH Step ML-10-TDS-NCR - 10" 225.5 SqFt) Carboline Bitumastic 300M [EXT]				0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 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) FOR FLANGE POUR TIE-IN - 4" MIN. PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 899.98' Rim to Invert: 10.095' Slack: 0.355" Sump: 2.215" Step Position: 245°				Structure Total: 19282 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.885'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.935'	130°	81.625"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

**FIRST POUR (BASE):
6,289 LBS**

**SECOND POUR (EXT. FLANGE):
1,167 LBS**

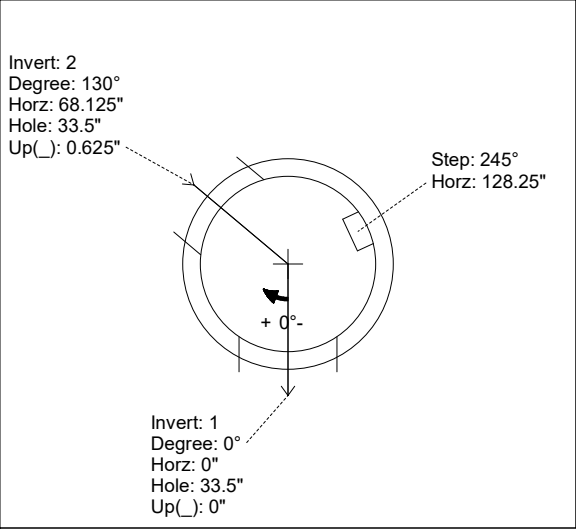
UPSIDE-DOWN VIEW (int. dimenions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 43" Height (Ext): 51"	Weight (Net): 7456 lb Volume (Net): 1.9cu.yd
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Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:50 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A13										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 8) MH Step ML-10-TDS-NCR - 10" 225.5 SqFt) Carboline Bitumastic 300M [EXT]				0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 899.98' Rim to Invert: 10.095' Slack: 0.355" Sump: 2.215" Step Position: 245°				Structure Total: 19282 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.885'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.935'	130°	81.625"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

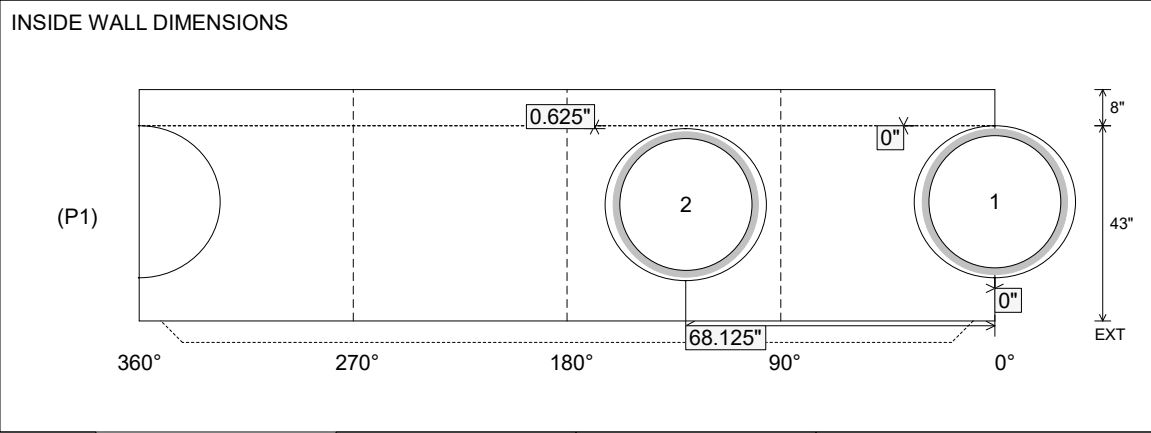
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimenions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 43" Height (Ext): 51"	Weight (Net): 7456 lb Volume (Net): 1.9cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A13

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:50 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A13										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 8) MH Step ML-10-TDS-NCR - 10" 225.5 SqFt) Carboline Bitumastic 300M [EXT] <td colspan="2"> 0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb Structure Total: 19282 lb </td> <td colspan="5"> Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS </td>				0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb Structure Total: 19282 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 899.98' Rim to Invert: 10.095' Slack: 0.355" Sump: 2.215" Step Position: 245°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.885'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.935'	130°	81.625"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P4)

(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

FIRST POUR (BASE):
6,289 LBS

SECOND POUR (EXT. FLANGE):
1,167 LBS

UPSIDE-DOWN VIEW (int. dimenions)

Invert: 2
Degree: 130°
Horz: 68.125"
Hole: 33.5"
Up(): 0.625"

Step: 245°
Horz: 128.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 33.5"
Up(): 0"

INSIDE WALL DIMENSIONS

(P1)

0.625"

0"

68.125"

0"

8"

43"

EXT

360°

270°

180°

90°

0°

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

Seam Up: Tongue
Seam Dn: n/a

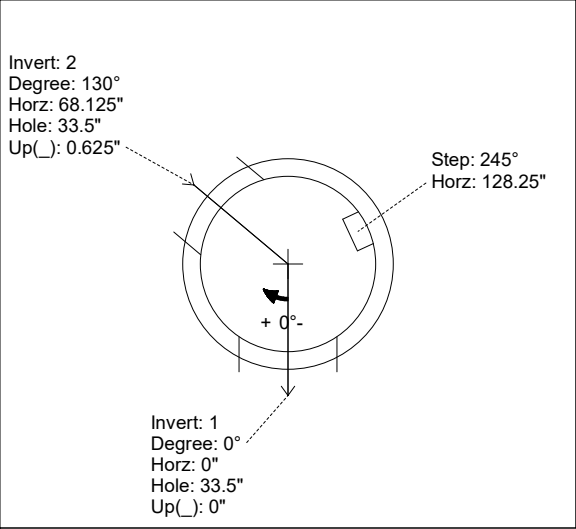
Wall Thickness: 6"
Floor Height: 8"

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

Weight (Net): 7456 lb
Volume (Net): 1.9cu.yd

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:50 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A13										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 8) MH Step ML-10-TDS-NCR - 10" 225.5 SqFt) Carboline Bitumastic 300M [EXT]				0 lb 2869 lb 6264 lb 7456 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 245 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 899.98' Rim to Invert: 10.095' Slack: 0.355" Sump: 2.215" Step Position: 245°				Structure Total: 19282 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.885'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.935'	130°	81.625"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

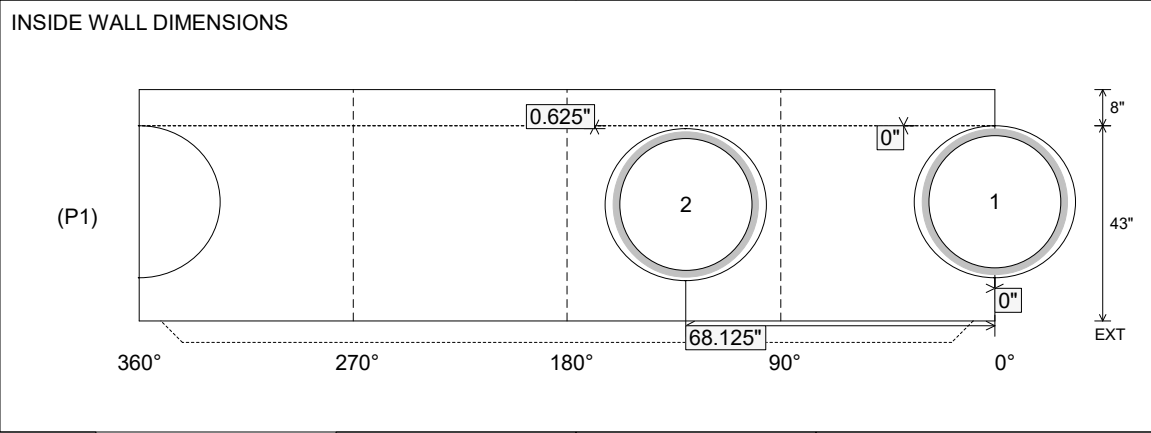
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimenions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 43" Height (Ext): 51"	Weight (Net): 7456 lb Volume (Net): 1.9cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A13

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2					Plant: 100		Tech: J. Horsley			
Job Location: Danville, KY					6/7/2026 1:24:49 PM		PC: C. Goff			
Contractor: Hubert Excavating & Contracting										
Structure ID: MH A12										
P1 MH060BAEVF MH BASE w/FLANGE (08F/07EF) w/Coating T/n										
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 50" 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 9) MH Step ML-10-TDS-NCR - 10" 236.49 SqFt) Carboline Bitumastic 300M [EXT] 0 lb 2869 lb 6264 lb 8187 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb Structure Total: 20013 lb Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 116.5 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS					Rim: 900.49' Rim to Invert: 10.655' Slack: 0.075" Sump: 2.215" Step Position: 116.5°					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.835'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.885'	233°	146.375"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P4)

(P3)

(P2)

(P1) <<

FIRST POUR (BASE):
7,020 LBS

SECOND POUR (EXT. FLANGE):
1,167 LBS

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

INSIDE WALL DIMENSIONS

0.625"

122"

0"

360°

270°

180°

90°

0°

8"

50"

EXT

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

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 50"
Height (Ext): 58"

Weight (Net): 8187 lb
Volume (Net): 2.09cu.yd

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting					Plant: 100 6/7/2026 1:24:49 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A12											
P1		MH060BAEVF		MH BASE w/FLANGE (08F/07EF) w/Coating T/n							
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 50" 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 9) MH Step ML-10-TDS-NCR - 10" 236.49 SqFt) Carboline Bitumastic 300M [EXT]					0 lb 2869 lb 6264 lb 8187 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 116.5 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 900.49' Rim to Invert: 10.655' Slack: 0.075' Sump: 2.215' Step Position: 116.5°					Structure Total: 20013 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	889.835'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"	
Invert 2	889.885'	233°	146.375"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	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: 233°
Horz: 122"
Hole: 33.5"
Up(): 0.625"

Step: 116.5°
Horz: 61"

+ 0°-

Invert: 1
Degree: 0°
Horz: 0"
Hole: 33.5"
Up(): 0"

UPSIDE-DOWN VIEW (int. dimenions)

INVERT CHANNEL
DRAWING

INSIDE WALL DIMENSIONS

(P1)

0.625"

2

122"

360°

270°

180°

90°

0°

8"

50"

EXT

0"

1

0"

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 50" Height (Ext): 58"	Weight (Net): 8187 lb Volume (Net): 2.09cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A12

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100		Tech: J. Horsley - A			
					3/20/2026 1:21:27 PM		PC: Celina Goff			
Structure ID: 2301545										
P1 MH060BAVF			MH BASE (10"F) Custom Ht T/n							
P5) 24" - CASTING HEIGHT - 7" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 48" - MH RISER T/G - 72" P2) 60" - MH Transition Slab 48" Hole T/G - 15" P1) 60" - MH BASE (10"F) Custom Ht T/n - 69" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 15) MH Step ML-10-TDS-NCR - 10"					0 lb 2252 lb 5030 lb 2204 lb 9265 lb 2692 lb 0 lb 0 lb 2 lb 0 lb ----- Structure Total: 21445 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 90 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS			
Rim: 751.2' Rim to Invert: 16.52' Slack: 2.24" Sump: 3" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	734.68'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	734.78'	161°	101.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	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. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 10"	Height (Int): 69" Height (Ext): 79"	Weight (Net): 9265 lb Volume (Net): 2.37cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements

Job Location: Fort Mitchell, KY 41017

Contractor: Lykins Contracting

Plant: 100

3/20/2026 1:21:27 PM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301545

P1 MH060BAVF

MH BASE (10"F) Custom Ht T/n

P5) 24" - CASTING HEIGHT - 7"

P4) 48" - CON CONE w/24" HOLE F/G - 36"

P3) 48" - MH RISER T/G - 72"

P2) 60" - MH Transition Slab 48" Hole T/G - 15"

P1) 60" - MH BASE (10"F) Custom Ht T/n - 69"

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) 60" - Conseal CS-102 1.00" (Double)

2) 48" - Conseal CS-102 1.00" (Double)

2) A-Lok - 1235

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

0 lb

2252 lb

5030 lb

2204 lb

9265 lb

2692 lb

0 lb

0 lb

2 lb

0 lb

21445 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT:

- WALLS: PER ASTM A615 - DOUBLE MAT

- FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2"

MIN. REBAR CLEARANCE (TYP)

4. INVERT CHANNEL REQUIRED

5. STEPS AT 90 DEGREES

6. 7" CASTING SUPPLIED BY OTHERS

Structure Total:

Rim: 751.2'

Rim to Invert: 16.52'

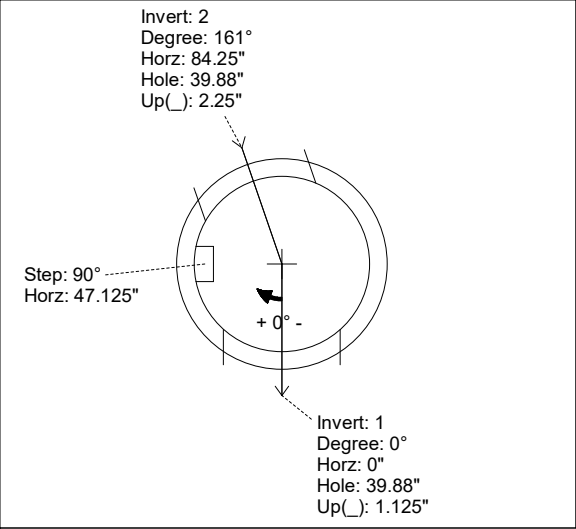
Slack: 2.24"

Sump: 3"

Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	734.68'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	734.78'	161°	101.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	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. dimensions)

INVERT CHANNEL
DRAWING

(P5)

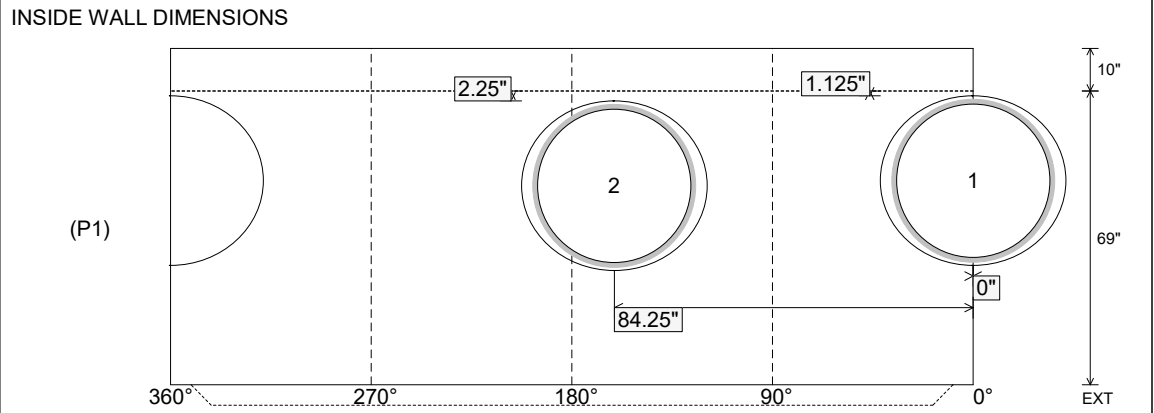
(P4)

(P3)

(P2)

(P1) <<

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 10"

Height (Int): 69"

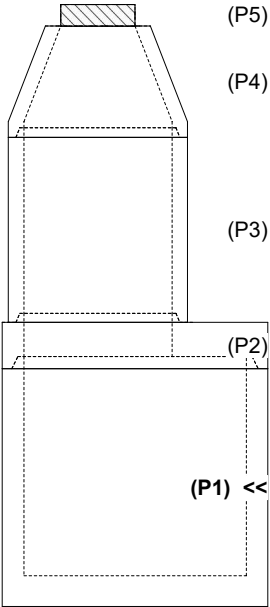
Height (Ext): 79"

Weight (Net): 9265 lb

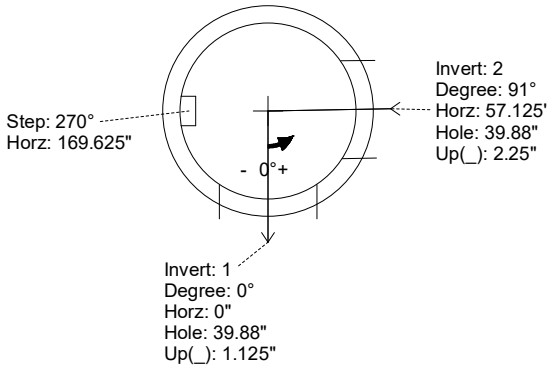
Volume (Net): 2.37cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100 3/20/2026 1:21:49 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301562											
P1 MH072BAVF		MH BASE (10"F) Custom Ht T/n									
P5) 24" - CASTING HEIGHT - 7" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 48" - MH RISER T/G - 60" P2) 72" - MH Transition Slab 48" Hole T/G - 15" P1) 72" - MH BASE (10"F) Custom Ht T/n - 67" 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 1) 72" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 14) MH Step ML-10-TDS-NCR - 10"					0 lb 2252 lb 4192 lb 3864 lb 13101 lb 5422 lb 0 lb 0 lb 2 lb 0 lb ----- Structure Total: 28833 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 270 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS				
Rim: 758.2' Rim to Invert: 15.42' Slack: 3.04" Sump: 3" Step Position: 270°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	742.78'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"	
Invert 2	742.88'	91°	68.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

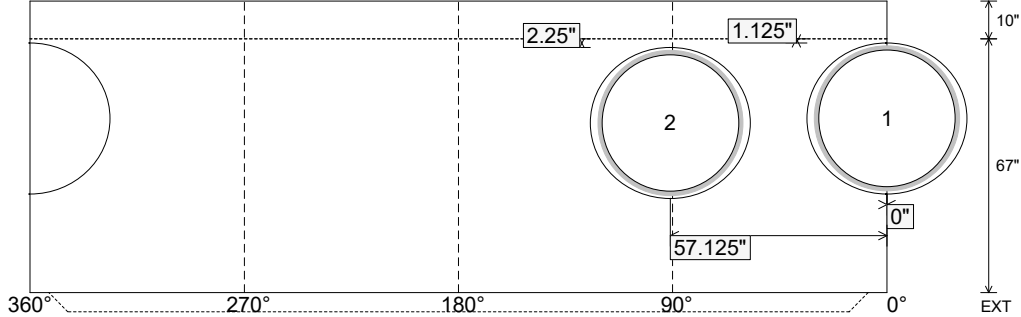
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

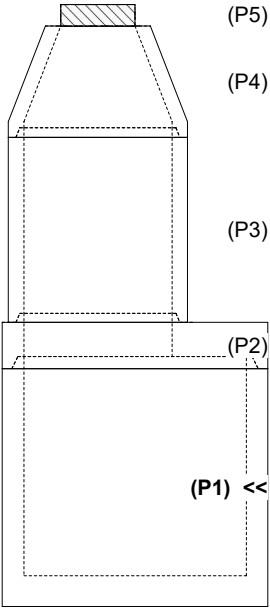


INSIDE WALL DIMENSIONS



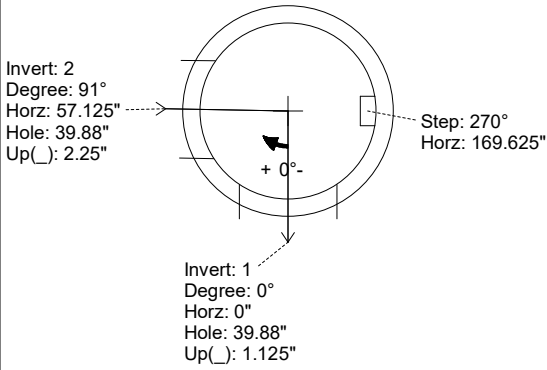
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 7" Floor Height: 10"	Height (Int): 67" Height (Ext): 77"	Weight (Net): 13101 lb Volume (Net): 3.35cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting				Plant: 100 3/20/2026 1:21:49 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301562										
P1 MH072BAVF				MH BASE (10"F) Custom Ht T/n						
P5) 24" - CASTING HEIGHT - 7" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 48" - MH RISER T/G - 60" P2) 72" - MH Transition Slab 48" Hole T/G - 15" P1) 72" - MH BASE (10"F) Custom Ht T/n - 67" 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 1) 72" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 14) MH Step ML-10-TDS-NCR - 10"				0 lb 2252 lb 4192 lb 3864 lb 13101 lb 5422 lb 0 lb 0 lb 2 lb 0 lb ----- 28833 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 270 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS				
Rim: 758.2' Rim to Invert: 15.42' Slack: 3.04' Sump: 3" Step Position: 270°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	742.78'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"
Invert 2	742.88'	91°	68.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	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: 91°
Horz: 57.125"
Hole: 39.88"
Up(): 2.25"

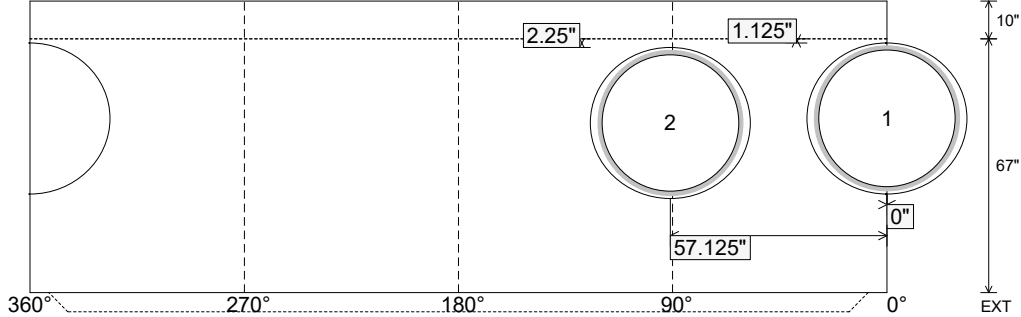
Invert: 1
Degree: 0°
Horz: 0"
Hole: 39.88"
Up(): 1.125"

Step: 270°
Horz: 169.625"

UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

2.25" 1.125" 57.125" 0"

10" 67" EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 7" Floor Height: 10"	Height (Int): 67" Height (Ext): 77"	Weight (Net): 13101 lb Volume (Net): 3.35cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
Job Location: Fort Mitchell, KY 41017
Contractor: Lykins Contracting

Plant: 100

3/27/2026 11:40:06 AM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301547

P3 MH072TS15-48ECC

MH Transition Slab 48" Hole T/G

P6) 24" - CASTING HEIGHT - 7"
P5) 24" - GRADE RING F/F - 4"
P4) 48" - CON CONE w/24" HOLE F/G - 36"
P3) 72" - MH Transition Slab 48" Hole T/G - 15"
P2) 72" - MH RISER w/DROP Custom Ht T/G - 72"
P1) 72" - MH BASE (10"F) w/DROP Custom Ht T/n - 72"
1) 72" - MH INVERT CHANNEL - FULL HEIGHT
1) SECONDARY POUR - Add Exterior Drop to Base (P1)
1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
2) 72" - Conseal CS-102 1.00" (Double)
1) 48" - Conseal CS-102 1.00" (Double)
2) A-Lok - 1235
1) Drop Tee - 8" PVC
1) Drop Elbow - 8" PVC
16) MH Step ML-10-TDS-NCR - 10"

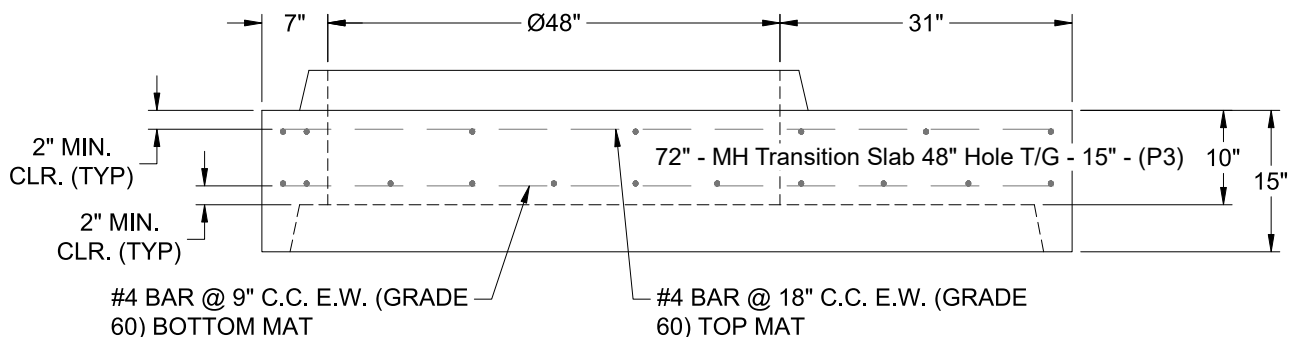
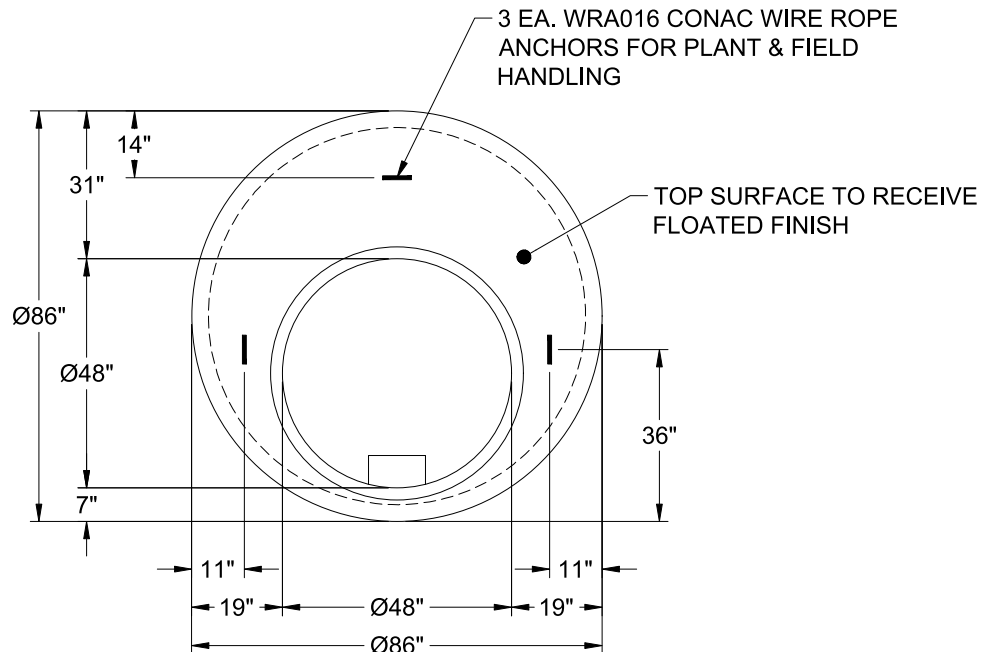
0 lb
270 lb
2252 lb
3864 lb
10463 lb
17336 lb
5422 lb
3526 lb
3096 lb
0 lb
0 lb
2 lb
0 lb
0 lb
0 lb
0 lb

Structure Total:

46231 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE
(TYP):
- TOP MAT: #4 BAR @ 18" C.C. E.W. (GRADE 60)
- BOTTOM MAT: #4 BAR @ 9" C.C. E.W. (GRADE 60)
4. STEPS REQUIRED
5. 7" CASTING SUPPLIED BY OTHERS
6. LIFTERS: 3 EA. WRA016 CONAC WIRE ROPE
ANCHORS FOR PLANT & FIELD HANDLING
7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 7"

Height (Ext): 15"

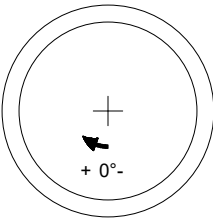
Weight (Net): 3864 lb
Volume (Net): 0.99cu.yd



Weight (Net): 5512 lb
Volume (Net): 1.41cu.yd

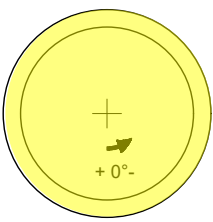
Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:54:42 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: W W (15)											
P1 MH096BAEVF			MH BASE EF Cust. Ht. 12"F (14"EF =142"OD) T/n								
P6) 36" x 72" - HATCH (CAST FLUSH) - 0" P5) 96" - MH FLAT TOP w/36"x72" Hatch F/G - 17" P4) 96" - MH RISER T/G - 36" P3) 96" - MH RISER T/G - 96" P2) 96" - MH RISER T/G - 84" P1) 96" - MH BASE EF Cust. Ht. 12"F (14"EF =142"OD) T/n - 79" 1) JOINT WRAP - 12" WD x 096" MAC WRAP 1) SPECIAL Internal Coating 4) 96" - Conseal CS-231 1.00" (Double) 1) 36" x 72" - Conseal CS-231 1.00" (Double) 2) Hole - 12 1) PSX - 8QRS DD 1) PSX - 16M DD 1) PSX - 12M DD					100 lb 8315 lb 8968 lb 23694 lb 20688 lb 35627 lb 0 lb 0 lb 0 lb 0 lb 6 lb 8 lb 8 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. HATCH SUPPLIED BY OTHERS. 5. INSIDE OF STRUCTURE TO BE SANDBLASTED, THEN A COATING OF TNE MEC 218 TO BE APPLIED, FOLLOWED BY A COATING OF TNE MEC 434, FOLLOWED BY A COATING OF TNE MEC 435. REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W. (DOUBLE MAT)				
Rim: 559'		Rim to Invert: 17.3'		Slack: 0"		Sump: 104.4"		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)

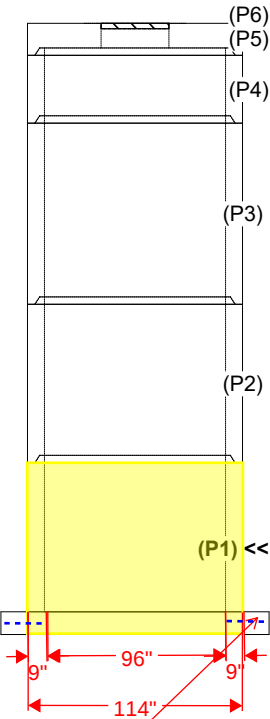


1ST POUR (BASE) = 29,958 LBS
2ND POUR (EXTENDED FLANGE) = 5,669 LBS

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS

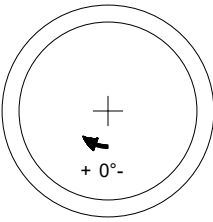


#5 BAR DOWELS @ 18" O.C TO BE DRILLED IN BASE SLAB FOR FLANGE ATTACHMENT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 9" Floor Height: 12"	Height (Int): 79" Height (Ext): 91"	Weight (Net): 35627 lb Volume (Net): 9.1cu.yd
----------------------------------	---------------------------------	---	--	--

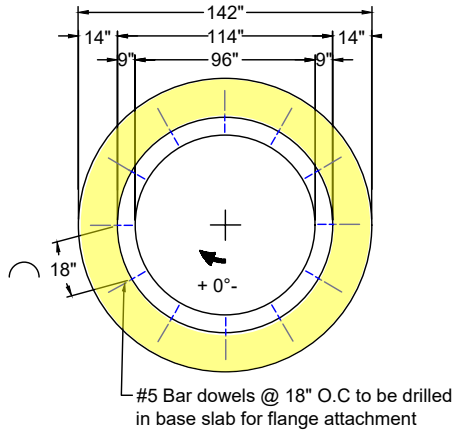
Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:54:42 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: W W (15)											
P1 MH096BAEVF			MH BASE EF Cust. Ht. 12"F (14"EF =142"OD) T/n								
P6) 36" x 72" - HATCH (CAST FLUSH) - 0" P5) 96" - MH FLAT TOP w/36"x72" Hatch F/G - 17" P4) 96" - MH RISER T/G - 36" P3) 96" - MH RISER T/G - 96" P2) 96" - MH RISER T/G - 84" P1) 96" - MH BASE EF Cust. Ht. 12"F (14"EF =142"OD) T/n - 79" 1) JOINT WRAP - 12" WD x 096" MAC WRAP 1) SPECIAL Internal Coating 4) 96" - Conseal CS-231 1.00" (Double) 1) 36" x 72" - Conseal CS-231 1.00" (Double) 2) Hole - 12 1) PSX - 8QRS DD 1) PSX - 16M DD 1) PSX - 12M DD					100 lb 8315 lb 8968 lb 23694 lb 20688 lb 35627 lb 0 lb 0 lb 0 lb 0 lb 0 lb 6 lb 8 lb 8 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. HATCH SUPPLIED BY OTHERS. 5. INSIDE OF STRUCTURE TO BE SANDBLASTED, THEN A COATING OF TNEMEC 218 TO BE APPLIED, FOLLOWED BY A COATING OF TNEMEC 434, FOLLOWED BY A COATING OF TNEMEC 435. REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W. (DOUBLE MAT)				
Rim: 559'		Rim to Invert: 17.3'		Slack: 0"		Sump: 104.4"		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)

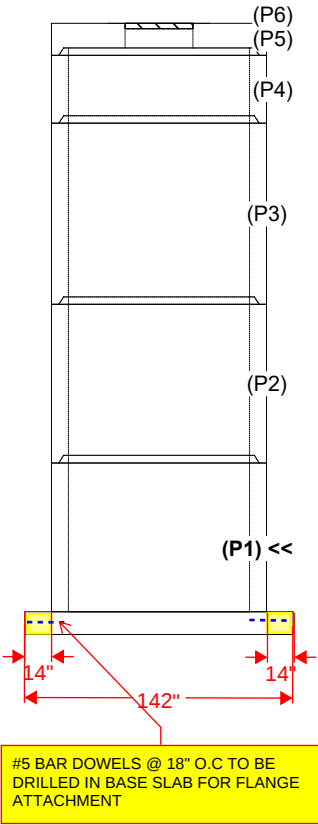


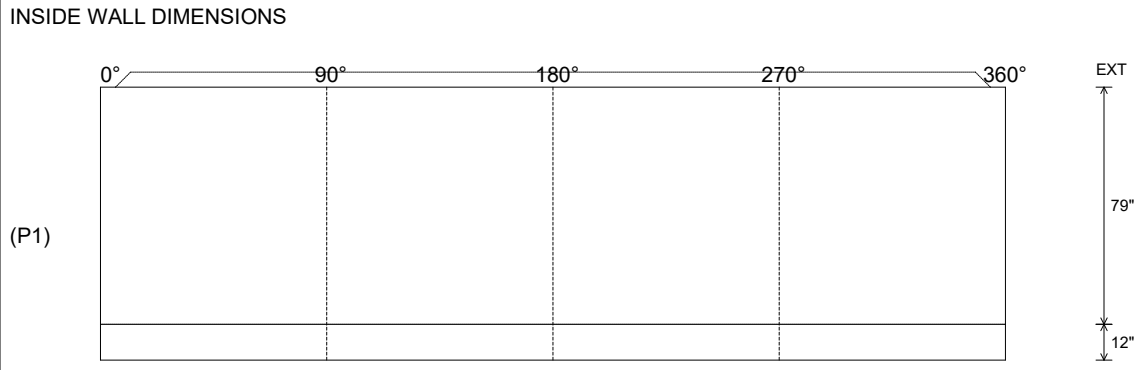
1ST POUR (BASE) = 29,958 LBS
2ND POUR (EXTENDED FLANGE) = 5,669 LBS

UPSIDE-DOWN VIEW (int. dimensions)

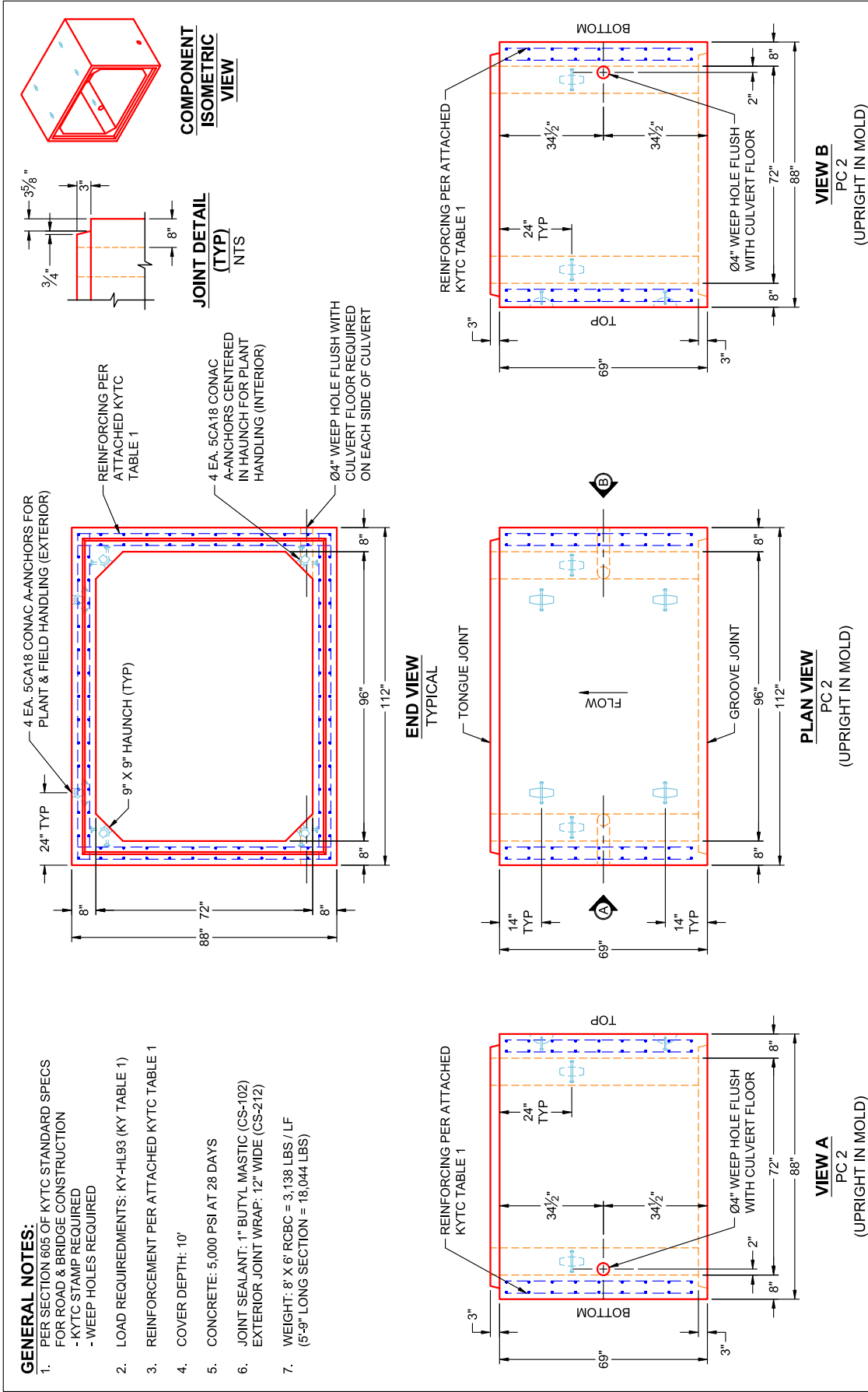


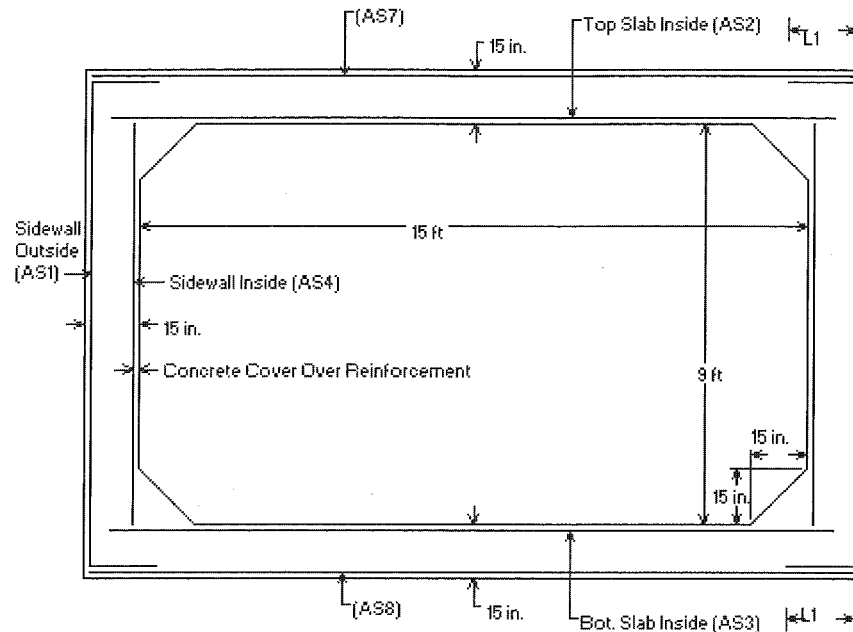
INSIDE WALL DIMENSIONS





Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 9" Floor Height: 12"	Height (Int): 79" Height (Ext): 91"	Weight (Net): 35627 lb Volume (Net): 9.1cu.yd
----------------------------------	---------------------------------	---	--	--





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

Notes:

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

KY Table 1

Precast Culvert KYHL-93 Design Table

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

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

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

Chronicle Reduction Factors

Return to Main Menu

Crack Width (CHBDC Only)+ +Thickness + 0 in.

Series	+	-
Series 1	0	0
Series 2	0	0

Thickets + 0 in.

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for

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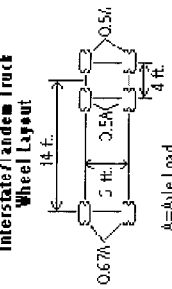
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[Previous Page](#) [Next Page >>](#)

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Job Name: 25-2898 - Hunter's Ridge Ph.1
Job Location: Owensboro, KY
Contractor: Ernie Davis & Sons Mechanical, Inc.

Plant: 100
5/29/2026 8:41:18 AM

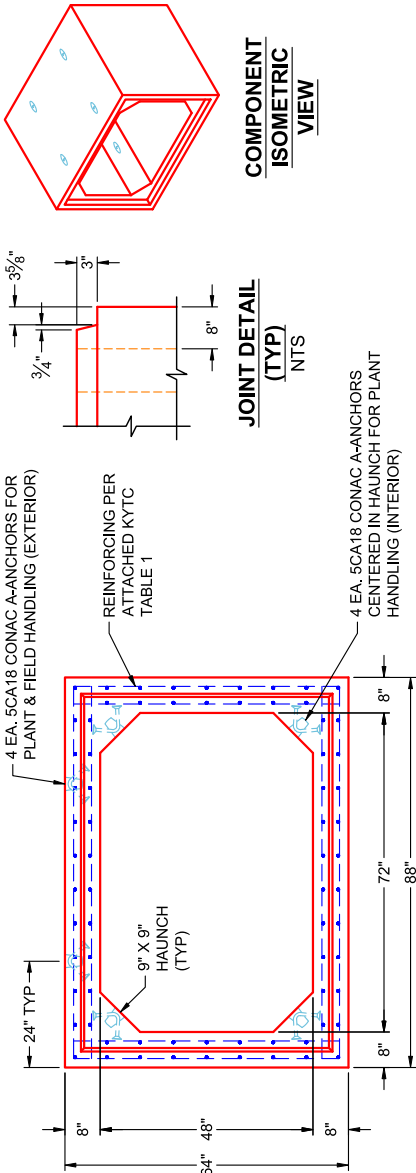
Tech: Jared - A
PC: A. Chambers



Structure ID: BC 6 x 4 (Sec K)

P1 BC048072-08WLF-9H

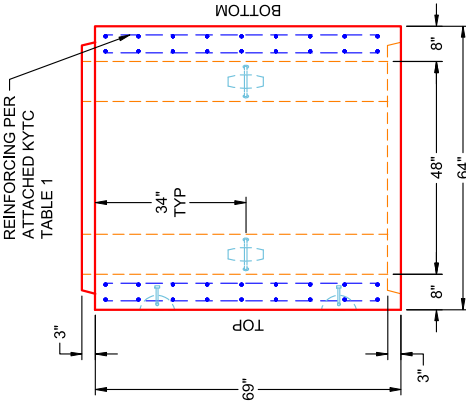
BOX CULVERT (08W/08F/08T) G/T



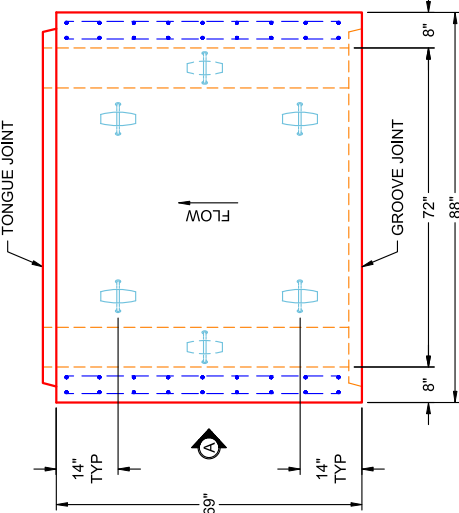
COMPONENT
ISOMETRIC
VIEW

JOINT DETAIL
(TYP)
NTS

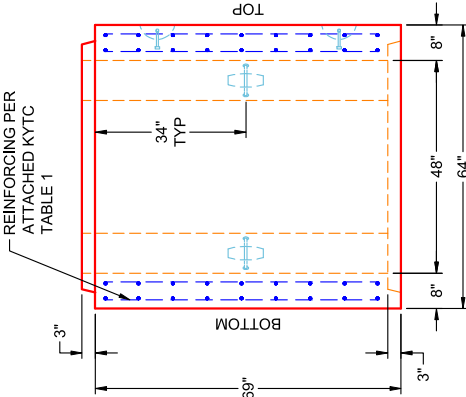
END VIEW
TYPICAL



VIEW B
SEC K
(UPRIGHT IN MOLD)



PLAN VIEW
SEC K
(UPRIGHT IN MOLD)



VIEW A
SEC K
(UPRIGHT IN MOLD)

GENERAL NOTES:

- PER SECTION 605 OF KYTC STANDARD SPECS FOR ROAD & BRIDGE CONSTRUCTION
- LOAD REQUIREMENTS: KY-HL93 (KY TABLE 1)
- REINFORCEMENT PER ATTACHED KYTC TABLE 1
- COVER DEPTH: 0' - 4'
- CONCRETE: 5,000 PSI AT 28 DAYS
- JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
- WEIGHT: 6' X 4' RCBC = 2,354 LBS / LF (5'-9" LONG SECTION = 13,537 LBS)

PRODUCTION WORK ORDER



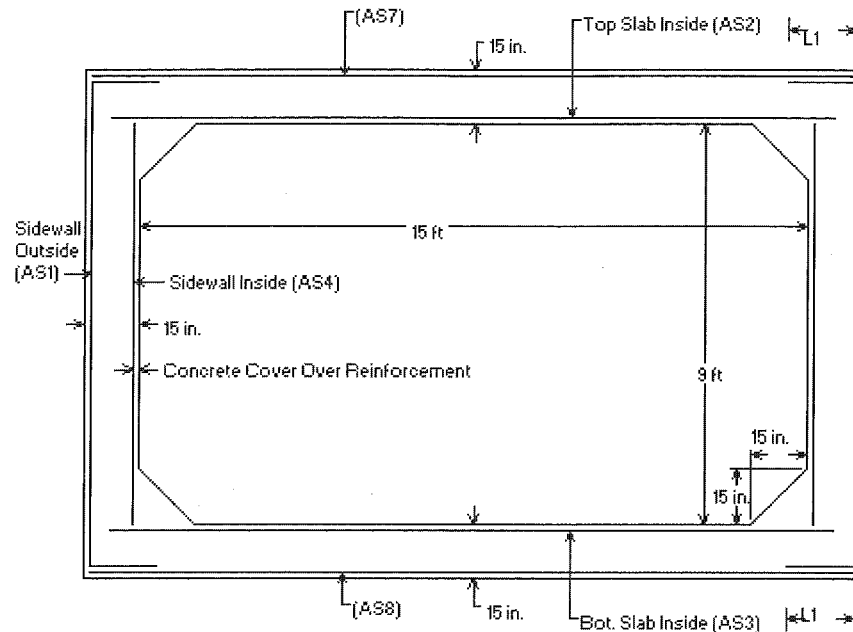
QUALITY CONTROL CHECKLIST

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

PRODUCT I.D.: BC048072-08WLF-9H
PRODUCT VIEW: RIGHT SIDE UP
PLANT: BEAVER DAM, KY
WEIGHT: 13,537 LBS
TOP SECTION JOINT: TONGUE
BASE SECTION JOINT: GROOVE
QC CHECK INITIALS:

DESCRIPTION: 72" X 48" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)
CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC.
PROJECT: HUNTER'S RIDGE PH 1
STRUCTURE: BC 6 X 4 (SEC K)
ORDER NO: 25-2898
PE: J.H. ROSS
DRAWING: K. CARDWELL
DATE: 05/29/26
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
6x4x7	0<2*	0.202	0.421	0.266	0.168	0.192	0.168	0.192	0.192
	2<3	0.251	0.368	0.288	0.168	0.168	0.168		
	3-5	0.19	0.271	0.24	0.168	0.168	0.168		
	10	0.168	0.228	0.234	0.168	0.168	0.168		
	15	0.216	0.306	0.313	0.168	0.168	0.168		
	20	0.275	0.391	0.398	0.168	0.168	0.168		
	25	0.338	0.479	0.487	0.168	0.168	0.168		
	30	0.404	0.571	0.579	0.168	0.168	0.168		
	35	0.473	0.667	0.675	0.168	0.168	0.168		
*top slab 8"									

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x5x7	0<2*	0.192	0.449	0.291	0.168	0.192	0.168	0.192	0.192
	2<3	0.22	0.398	0.316	0.168	0.168	0.168		
	3-5	0.168	0.294	0.262	0.168	0.168	0.168		
	10	0.168	0.243	0.252	0.168	0.168	0.168		
	15	0.188	0.326	0.336	0.168	0.168	0.168		
	20	0.238	0.417	0.427	0.168	0.168	0.168		
	25	0.291	0.512	0.522	0.168	0.168	0.168		
	30	0.347	0.611	0.622	0.168	0.168	0.168		
	35	0.406	0.714	0.725	0.168	0.168	0.168		
*top slab 8"									

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x6x7	0<2*	0.192	0.47	0.311	0.168	0.192	0.168	0.192	0.192
	2<3	0.195	0.421	0.337	0.168	0.168	0.168		
	3-5	0.168	0.311	0.277	0.168	0.168	0.168		
	10	0.168	0.252	0.263	0.168	0.168	0.168		
	15	0.168	0.338	0.349	0.168	0.168	0.168		
	20	0.212	0.432	0.444	0.168	0.168	0.168		
	25	0.259	0.531	0.543	0.168	0.168	0.168		
	30	0.308	0.634	0.647	0.168	0.168	0.168		
	35	0.359	0.741	0.755	0.168	0.168	0.168		
*top slab 8"									

Job Name: 26-2139 - 4157 & 4143 Vincent Station Drive

Job Location: Owensboro, KY

Contractor: Winwater Hartford KY Co.

Plant: 100

5/29/2026 12:15:31 PM

Tech: Jared - F

PC: A. Chambers



Structure ID: DBI 404.15

P1 BX3030-06BA24

BOX BASE 6inW, 6inF F/n

P2) 30" x 30" - CASTING HEIGHT - 4"

P1) 30" x 30" - BOX BASE 6inW, 6inF F/n - 24"

1) CASTING - HOE 468 F/G

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

1) Hole - 18

0 lb

2500 lb

489 lb

0 lb

0 lb

0 lb

Structure Total: 2989 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 468 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: 406.4'

Rim to Invert: 2.25'

Slack: 0.248"

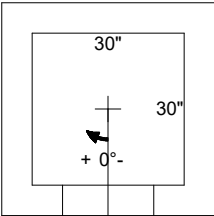
Sump: 1.248"

Step Position:

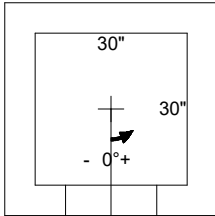
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	404.15'	0°	21"	12" HDPE	14.5"	Hole 18	18"	18"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

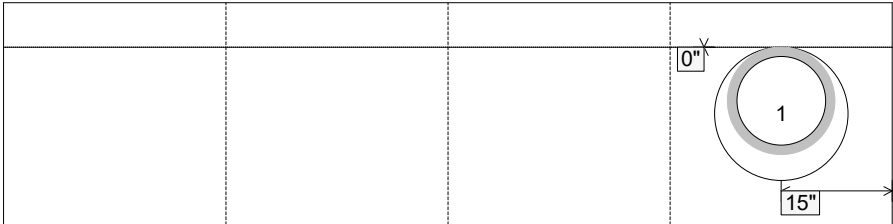


Invert: 1
Degree: 0
Horz: 15
Hole: 18
Up: 0



Invert: 1
Degree: 0
Horz: 15
Hole: 18
Up: 0

INSIDE WALL DIMENSIONS



LeftBack (30")Right (30")Front

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 6"

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

Weight (Net): 2500 lb
Volume (Net): 0.64cu.yd

Job Name: 26-2139 - 4157 & 4143 Vincent Station Drive

Job Location: Owensboro, KY

Contractor: Winwater Hartford KY Co.

Plant: 100

5/29/2026 12:15:30 PM

Tech: Jared - F

PC: A. Chambers



Structure ID: CI 403.82

P1 BX2436-08BVF

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

P2) 24" x 36" - CASTING HEIGHT - 6"

P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 25"

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

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

2) Hole - 18

0 lb

3595 lb

442 lb

0 lb

0 lb

0 lb

Structure Total: 4037 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 SET FLAT GRATE (F/G/H)).

REINFORCING PER ASTM A615 (GRADE 60).

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

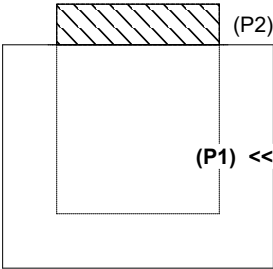
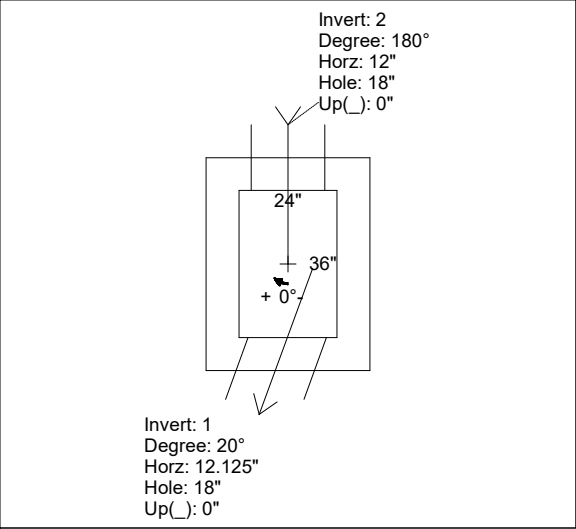
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 406.35' Rim to Invert: 2.53' Slack: 0.608" Sump: 1.248" Step Position:

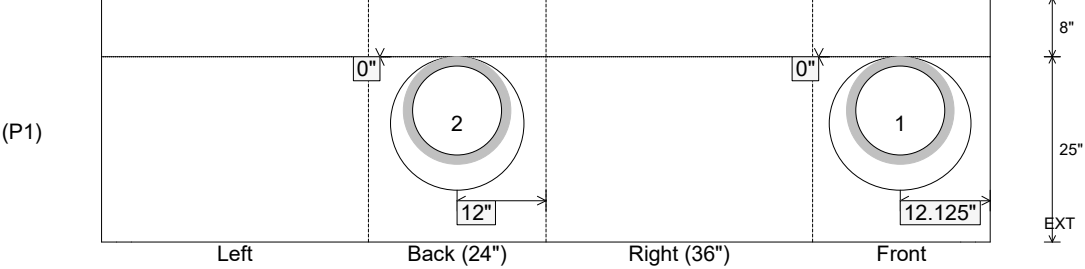
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	403.82'	20°	23.125"	12" HDPE	14.5"	Hole 18	18"	19.155"	0"	-6"
Invert 2	403.82'	180°	20"	12" HDPE	14.5"	Hole 18	18"	18"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 25"

Height (Ext): 33"

Weight (Net): 3595 lb

Volume (Net): 0.92cu.yd

Job Name: 26-2139 - 4157 & 4143 Vincent Station Drive Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.					Plant: 100 5/29/2026 12:15:30 PM		Tech: Jared - F PC: A. Chambers				
Structure ID: CI 404.21											
P1		BX2436-08BA30		BOX BASE 8inW, 8inF F/n							
P2) 24" x 36" - CASTING HEIGHT - 6" P1) 24" x 36" - BOX BASE 8inW, 8inF F/n - 30" 1) CASTING - HOE 525 SET FLAT GRATE (F/G/H) 1) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 18"					0 lb 4105 lb 442 lb 0 lb 0 lb ----- 0 lb Structure Total: 4547 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 SET FLAT GRATE (F/G/H)). 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: 407.15' Rim to Invert: 2.94' Slack: 0.53' Sump: 1.25' Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	404.21'	0°	20"	12" HDPE	14.5"	Hole 18	18"	18"	0"	0"	
Invert 2	404.21'	110°	28"	12" HDPE	14.5"	Hole 18	18"	19.155"	0"	-5"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)

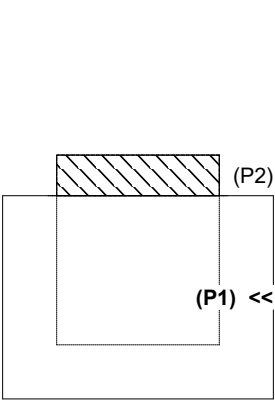
(P1) <<

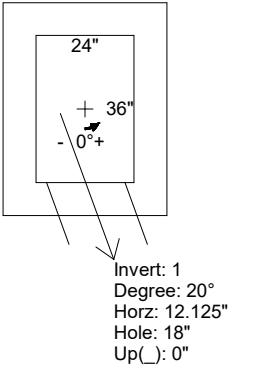
UPSIDE-DOWN VIEW (int. dimenions)

INSIDE WALL DIMENSIONS

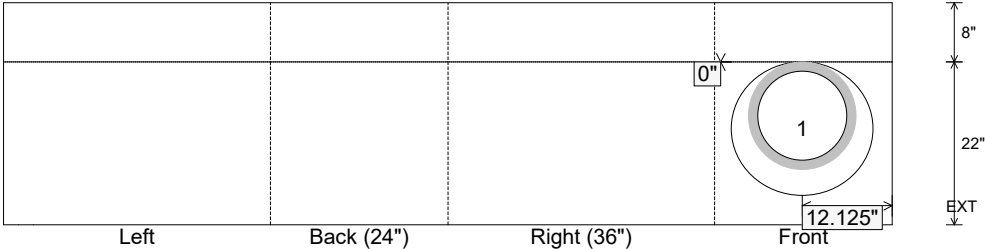
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 4105 lb Volume (Net): 1.05cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 26-2139 - 4157 & 4143 Vincent Station Drive Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.				Plant: 100 5/29/2026 12:15:29 PM		Tech: Jared - F PC: A. Chambers				
Structure ID: CI 404.65										
P1 BX2436-08BVF		BOX BASE 8inW, 8inF, Variable Ht F/n								
P2) 24" x 36" - CASTING HEIGHT - 6" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 22" 1) CASTING - HOE 525 SET FLAT GRATE (F/G/H) 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 18						0 lb 3459 lb 442 lb 0 lb 0 lb ----- 3901 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 SET FLAT GRATE (F/G/H)). 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: 406.9' Rim to Invert: 2.25' Slack: 0.25' Sump: 1.25' Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	404.65'	20°	23.125"	12" HDPE	14.5"	Hole 18	18"	19.155"	0"	-6"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										





INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 22" Height (Ext): 30"	Weight (Net): 3459 lb Volume (Net): 0.88cu.yd
----------------------------------	-------------------------------	--	--	--



Structure ID: 2 HW-1

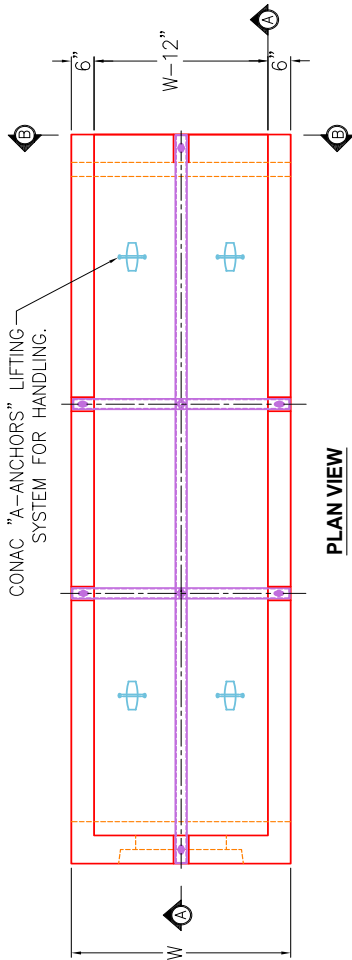
P1 HWTDOT3-1TU42

42" - HW TDOT 3:1 Type U Cross Drain Endwall

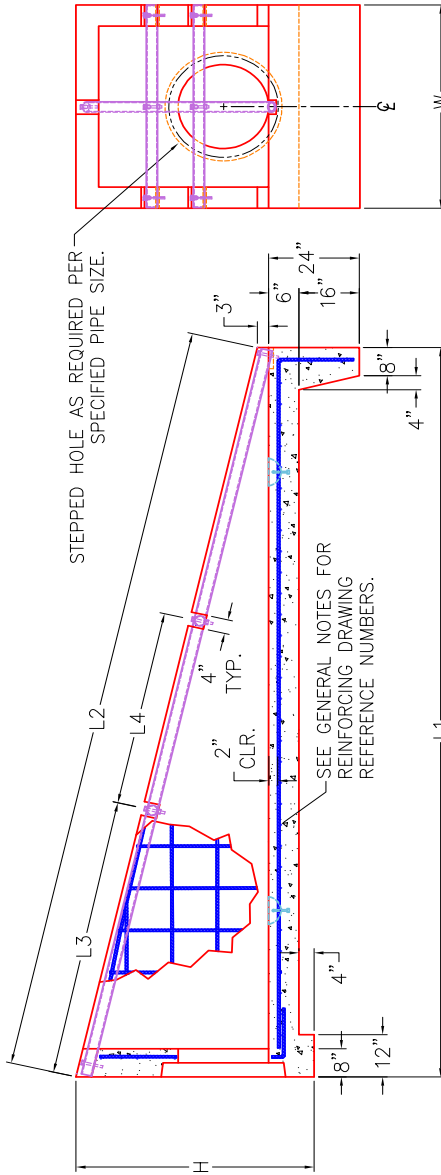
GENERAL NOTES

- DRAWING TO BE USED FOR ALL 12" THROUGH 48" SIDE DRAIN CONCRETE ENDWALLS.
- MANUFACTURING, FOR CROSS DRAINS ONLY.
- CONCRETE: $f'_c = 4,500$ PSI @ 28 DAYS.
- REINFORCING STEEL: ASTM A615, $f_y=60,000$ PSI. SEE STD. DWGS. D-PE-15A, D-PE-18, D-PE-24A, D-PE-30A, D-PE-36A, D-PE-42A & D-PE-48A FOR BILL OF STEEL.
- SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
- APPROPRIATE SIZING AND LOCATIONS OF THE LIFTING INSERTS WILL BE THE RESPONSIBILITY OF INFRASTRUCTURE PRECAST, INC.
- LIFTING INSERT POCKETS SHALL BE GROUTED ON SITE BY THE CONTRACTOR AFTER THE ENDWALL IS SET AS PER TDOT REQUIREMENTS.
- DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 5-3.
- PIPE OPENINGS FOR HEADWALLS ARE BASED ON REINFORCED CONCRETE PIPE WITH TYPE "B" WALL AS PER AMERICAN CONCRETE PIPE ASSOCIATION (ACPA). OUTSIDE DIAMETER + 3"-4". TOE WALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.

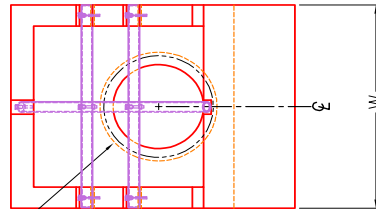
NOTE:
JBS 42" TDOT 3:1 "U"
Cross Drain EW Grate
supplied by ICAST



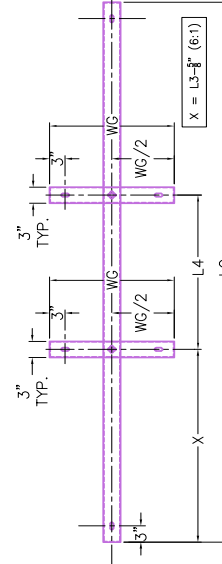
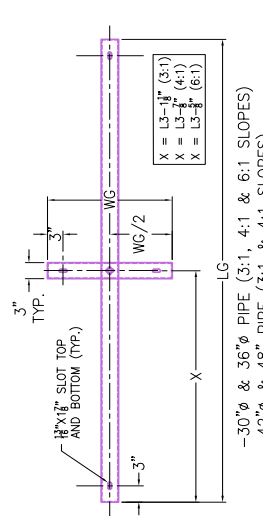
PLAN VIEW



SECTION A-A

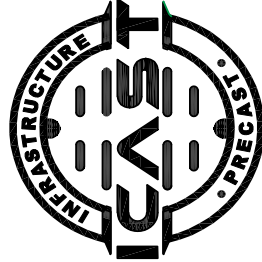


ELEVATION B-B



STEEL PIPE GRATE PLAN VIEWS

(SEE D-PE-99 FOR MOUNTING STEEL GRATES)



INFRASTRUCTURE PRECAST, INC.
981 WEST 7TH ST., BEAVER DAM, KY. 42320
PHONE: (270) 363-2238, FAX: (270) 298-7424

TDOT TYPE "U" CROSS DRAIN ENDWALL WITH STEEL
PIPE GRATE FOR 15" THROUGH 48" PIPES
DRAWING NO.: ET-TDOT-202 DATE: 11-24-25
REVIEWED BY: J.H. ROSS, PE DRAWN BY: N. RICHARDS
WEB: WWW.ICASTINC.COM SCALE: NTS

PIPE DIA. (O)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT LBS.
	H	W	L1	L2	L3	L4	L5	L6	L7	L8	
15"	2'-11"	2'-8"	8'-0"	8'-3"	N/A	N/A	N/A	N/A	N/A	N/A	3,484
18"	3'-2"	2'-11"	8'-8"	8'-11"	N/A	N/A	N/A	N/A	N/A	N/A	4,228
24"	3'-9"	3'-6"	11'-0"	11'-4"	N/A	N/A	N/A	N/A	N/A	N/A	6,303
30"	4'-5"	4'-1"	13'-8"	14'-1"	N/A	N/A	N/A	N/A	N/A	N/A	9,083
36"	5'-0"	4'-8"	16'-0"	16'-3"	8'-2"	N/A	N/A	N/A	N/A	N/A	12,058
42"	5'-6"	5'-3"	18'-0"	18'-3"	9'-2"	N/A	N/A	N/A	N/A	N/A	15,073
48"	6'-1"	5'-10"	20'-4"	20'-11"	10'-3"	N/A	N/A	N/A	N/A	N/A	18,910

PIPE DIA. (O)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT LBS.
	H	W	L1	L2	L3	L4	L5	L6	L7	L8	
15"	2'-11"	2'-8"	8'-0"	8'-3"	N/A	N/A	N/A	N/A	N/A	N/A	3,484
18"	3'-2"	2'-11"	8'-8"	8'-11"	N/A	N/A	N/A	N/A	N/A	N/A	4,228
24"	3'-9"	3'-6"	11'-0"	11'-4"	N/A	N/A	N/A	N/A	N/A	N/A	6,303
30"	4'-5"	4'-1"	13'-8"	14'-1"	N/A	N/A	N/A	N/A	N/A	N/A	9,083
36"	5'-0"	4'-8"	16'-0"	16'-3"	8'-2"	N/A	N/A	N/A	N/A	N/A	12,058
42"	5'-6"	5'-3"	18'-0"	18'-3"	9'-2"	N/A	N/A	N/A	N/A	N/A	15,073
48"	6'-1"	5'-10"	20'-4"	20'-11"	10'-3"	N/A	N/A	N/A	N/A	N/A	18,910

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 6:1

PIPE DIA. (O)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT LBS.
	H	W	L1	L2	L3	L4	L5	L6	L7	L8	
15"	2'-11"	2'-8"	8'-0"	8'-3"	N/A	N/A	N/A	N/A	N/A	N/A	3,484
18"	3'-2"	2'-11"	8'-8"	8'-11"	N/A	N/A	N/A	N/A	N/A	N/A	4,228
24"	3'-9"	3'-6"	11'-0"	11'-4"	N/A	N/A	N/A	N/A	N/A	N/A	6,303
30"	4'-5"	4'-1"	13'-8"	14'-1"	N/A	N/A	N/A	N/A	N/A	N/A	9,083
36"	5'-0"	4'-8"	16'-0"	16'-3"	8'-2"	N/A	N/A	N/A	N/A	N/A	12,058
42"	5'-6"	5'-3"	18'-0"	18'-3"	9'-2"	N/A	N/A	N/A	N/A	N/A	15,073
48"	6'-1"	5'-10"	20'-4"	20'-11"	10'-3"	N/A	N/A	N/A	N/A	N/A	18,910

STEEL PIPE GRATE DIMENSIONS			
PIPE DIA.	ALL SLOPES	3:1 LG	4:1 LG
30"	4'-1"	10'-10"	14'-0"
36"	4'-8"	12'-0"	16'-5"
42"	5'-3"	14'-3"	18'-5"
48"	5'-10"	16'-1"	20'-10"



18" - HW TDOT 4:1 Type U Cross Drain Endwall

FRONT ELEVATION

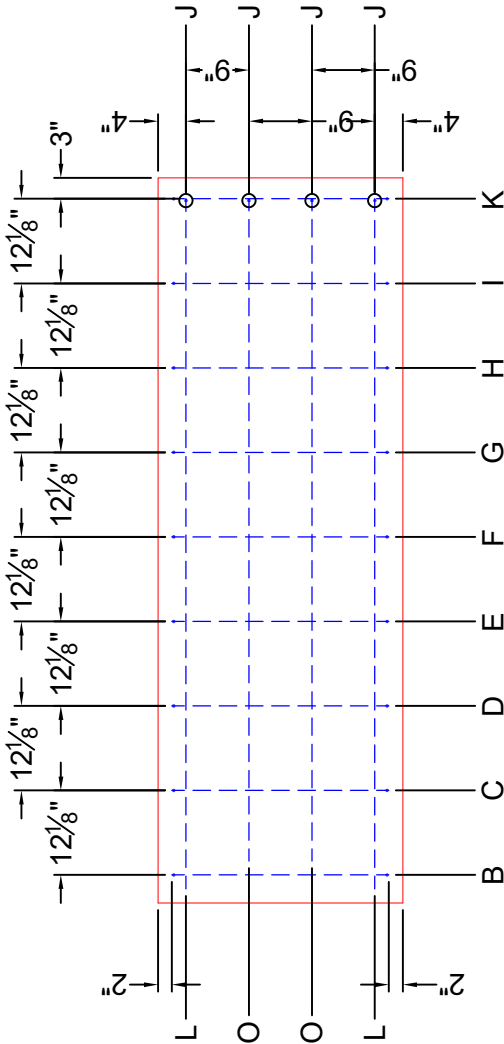
Structure ID: EW-13 471+09.00

P1 HWTDOT4-1TU18

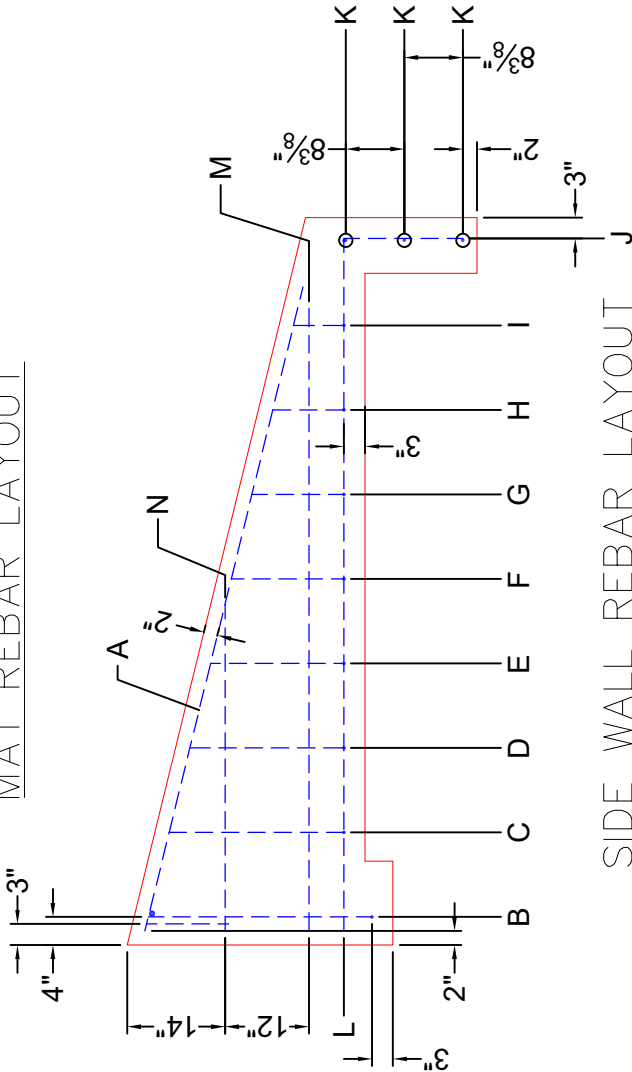
18" - HW TDOT 4:1 Type U Cross Drain Endwall

GENERAL NOTES:

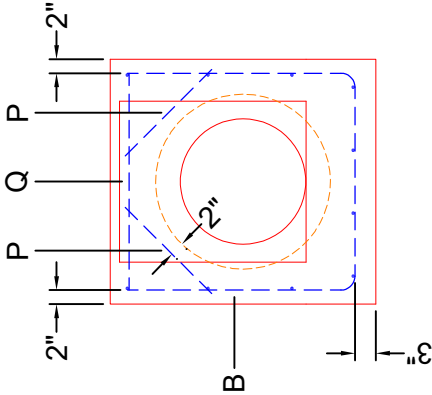
- 1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
- 2. CONCRETE: 5,000 PSI AT 28 DAYS.
- 3. WEIGHT: 4,320 LBS
- 4. REINFORCING: SEE SHEETS 2 AND 3 FOR REINFORCEMENT INFORMATION. (GRADE 60)



MAT REBAR LAYOUT



SIDE WALL REBAR LAYOUT



BACK WALL REBAR LAYOUT

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

Plant: Beaver Dam
6/1/2026 12:50:52 PM

Tech: J. Coppage
PC: C. Goff

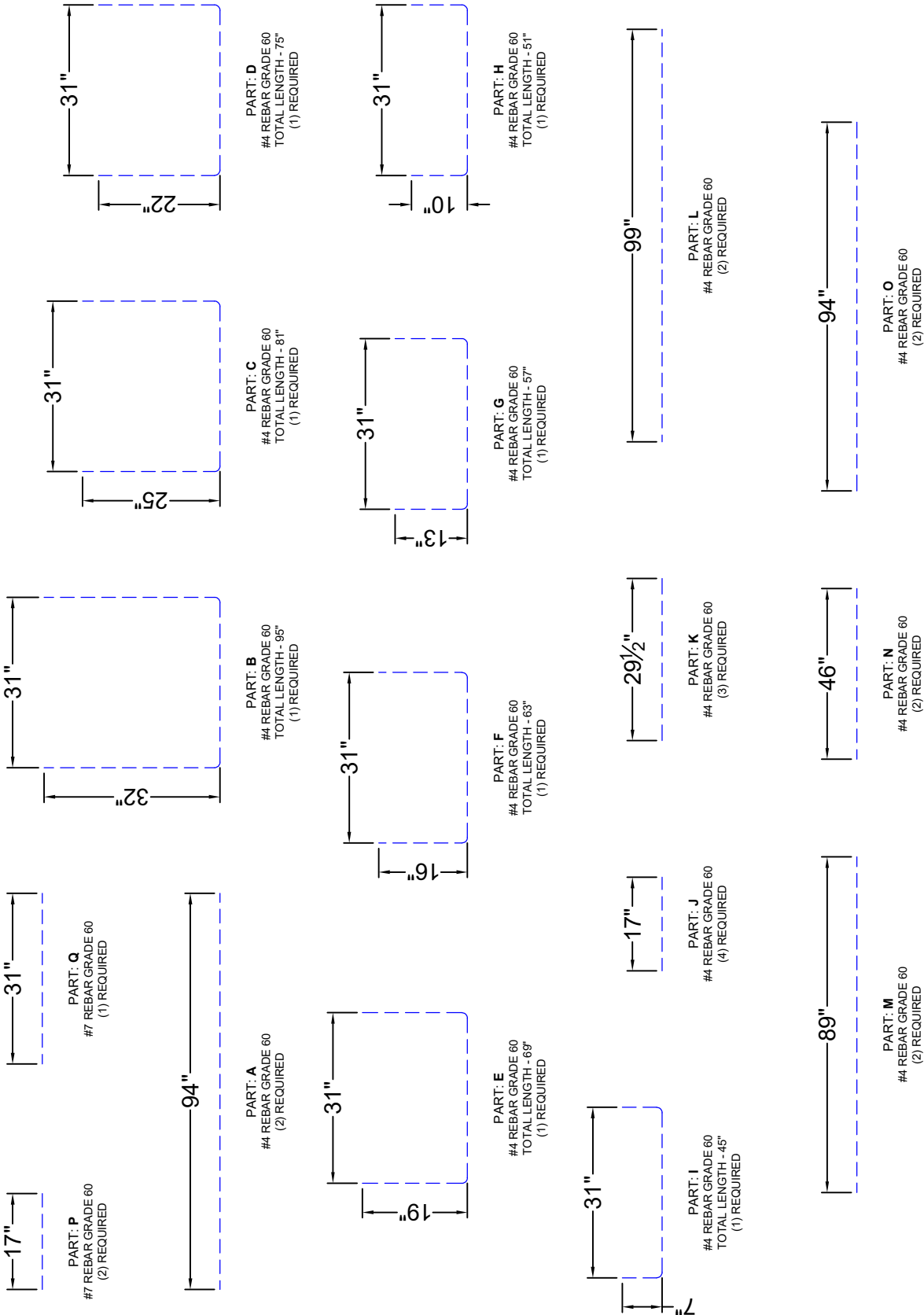


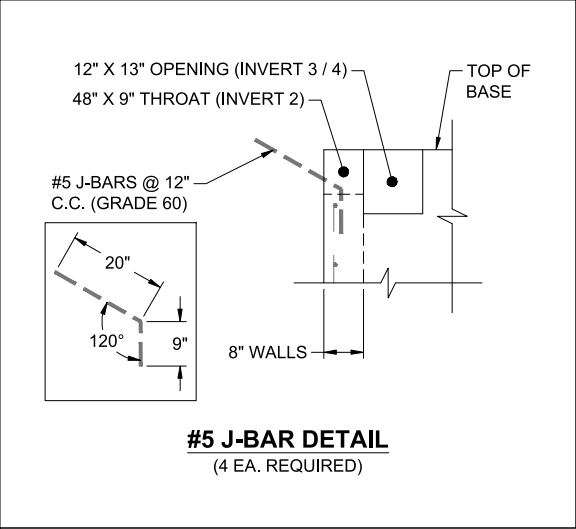
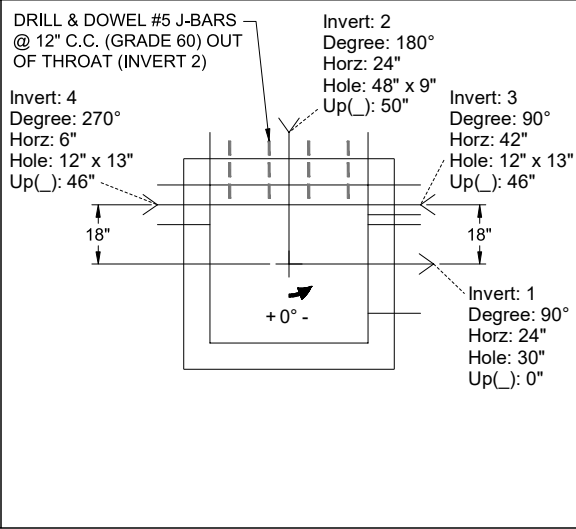
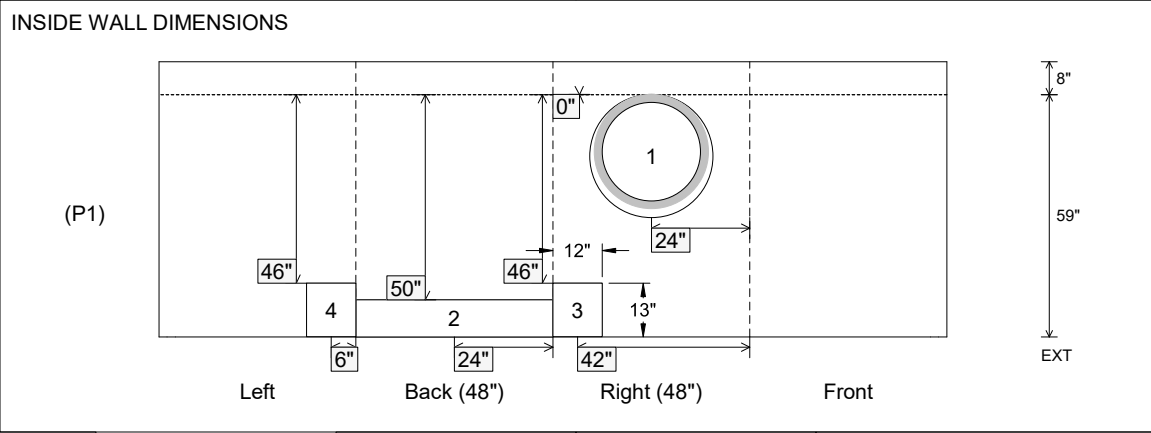
Structure ID: EW-13 471+09.00

P1 HWTDOT4-1TU18

18" - HW TDOT 4:1 Type U Cross Drain Endwall

NOTE:
REBAR PARTS P & Q ARE
#7 REBAR ALL OTHERS ARE
#4 REBAR



Job Name: 26-1075 - Walmart Fuel Station 00674-1008 Job Location: Gallatin, TN Contractor: Stewart Richey				Plant: 100 6/11/2026 2:22:05 PM		Tech: PC: T. Lewis					
Structure ID: CI 1 (3)											
P1 BX4848-08BAVF-EB				BX BASE w/FLANGE 08W/08F/12EF F/n							
P3) 24" - CASTING (cast in) - 4" P2) 48" x 48" - CB FLAT TOP 8"W SPEC. (JBS 1072) F/F - 8" P1) 48" x 48" - BX BASE w/FLANGE 08W/08F/12EF F/n - 59" 1) SECONDARY POUR - Extended Flange 1) This Structure Includes a Cast-in Item - JBS 1072 Frame (Supplied by iCast) 1) CASTING - JBS 1072 F/C STORM 1) 48" x 48" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 1) Hole - 30 1) Horiz Slot n/n - 48"x9" 2) Vert. Slot n/n - 12"x13"				0 lb 2507 lb 13378 lb 0 lb 0 lb 250 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 16135 lb		Structure Notes: 1. PER ASTM C-913 SPECIFICATIONS 2. CONCRETE: 4,500 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. JBS 1072 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO FLAT LID FLANGE SIDE UP 7. INVERTS 3 & 4 OFFSET 18" FROM CENTER OF WALL 8. DRILL & DOWEL #5 J-BARS @ 12" C.C. (GRADE 60) OUT OF 48" X 9" THROAT (INVERT 2) FOR CURB POUR TIE-IN (SEE J-BAR DETAIL) 9. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 0° & 180° WALLS, 18" FROM TOP OF WALLS					
FIRST POUR (BASE): 10,929 LBS											
SECOND POUR (12" EXT. FLANGE): 2,449 LBS											
Rim: 519.52' Rim to Invert: 5.43' Slack: 0.05" Sump: 1.9" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	514.09'	90°	32"	24" HDPE	27.8"	Hole 30	30"	30"	0"	0"	
Invert 2	518.1'	180°	32"	48" x 9" Horiz Slot	48" x 9"	Horiz Slot 48"x9"	48" x 9"	48"	50"	0"	
Invert 3	517.765'	90°	50"	12" x 13" Vert. Slot	12" x 13"	Vert. Slot 12"x13"	12" x 13"	12"	46"	18"	
Invert 4	517.765'	270°	14"	12" x 13" Vert. Slot	12" x 13"	Vert. Slot 12"x13"	12" x 13"	12"	46"	-18"	
Invert 5											
UPSIDE-DOWN VIEW (int. dimensions)											
											
											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 59" Height (Ext): 67"		Weight (Net): 13378 lb Volume (Net): 3.42cu.yd	

Job Name: 26-1075 - Walmart Fuel Station 00674-1008

Job Location: Gallatin, TN

Contractor: Stewart Richey

Plant: 100

6/11/2026 2:22:05 PM

Tech:

PC: T. Lewis



Structure ID: CI 1 (3)

P1 BX4848-08BAVF-EB

BX BASE w/FLANGE 08W/08F/12EF F/n

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

P2) 48" x 48" - CB FLAT TOP 8"W SPEC. (JBS 1072) F/F - 8"

P1) 48" x 48" - BX BASE w/FLANGE 08W/08F/12EF F/n - 59"

1) SECONDARY POUR - Extended Flange

1) This Structure Includes a Cast-in Item - JBS 1072 Frame (Supplied by iCAST)

1) CASTING - JBS 1072 F/C STORM

1) 48" x 48" - Conseal CS-102 1.00"

1) 24" - Conseal CS-102 1.00"

1) Hole - 30

1) Horiz Slot n/n - 48"x9"

2) Vert. Slot n/n - 12"x13"

0 lb

2507 lb

13378 lb

0 lb

0 lb

250 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 16135 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS

2. CONCRETE: 4,500 PSI AT 28 DAYS

3. REINFORCEMENT: DRILL & DOWEL #5 BAR @ 12" 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 (TYP)

4. NO STORM INVERT

5. NO STEPS

6. JBS 1072 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO FLAT LID FLANGE SIDE UP

FIRST POUR (BASE): 10,929 LBS

SECOND POUR (12" EXT. FLANGE): 2,449 LBS

Rim: 519.52'

Rim to Invert: 5.43'

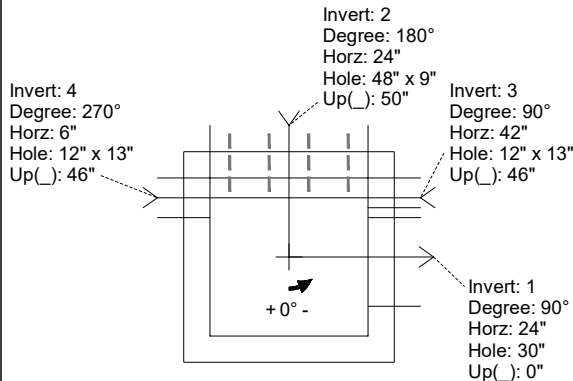
Slack: 0.05"

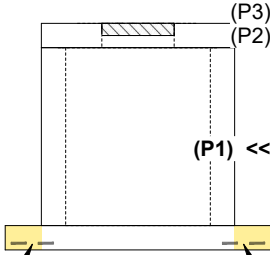
Sump: 1.9"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	514.09'	90°	32"	24" HDPE	27.8"	Hole 30	30"	30"	0"	0"
Invert 2	518.1'	180°	32"	48" x 9" Horiz Slot	48" x 9"	Horiz Slot 48"x9"	48" x 9"	48"	50"	0"
Invert 3	517.765'	90°	50"	12" x 13" Vert. Slot	12" x 13"	Vert. Slot 12"x13"	12" x 13"	12"	46"	18"
Invert 4	517.765'	270°	14"	12" x 13" Vert. Slot	12" x 13"	Vert. Slot 12"x13"	12" x 13"	12"	46"	-18"
Invert 5										

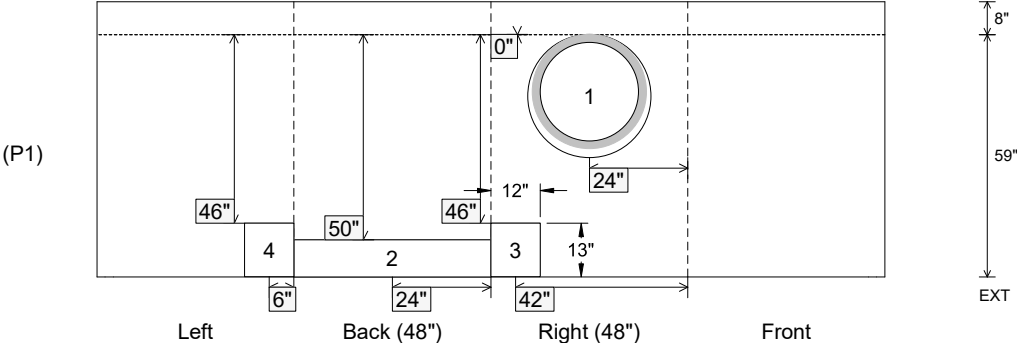
UPSIDE-DOWN VIEW (int. dimensions)





DRILL & DOWEL #5 BAR @ 12" C.C. E.W. (GRADE 60) OUT OF BASE FLOOR FOR EXT. FLANGE POUR TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE (TYP)

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 59"

Height (Ext): 67"

Weight (Net): 13378 lb

Volume (Net): 3.42cu.yd

Job Name: 26-1075 - Walmart Fuel Station 00674-1008
Job Location: Gallatin, TN
Contractor: Stewart Richey

Plant: 100

6/11/2026 4:16:12 PM

Tech:

PC: T. Lewis



Structure ID: CI 1 (3)

P2 BX048048-08LD08S

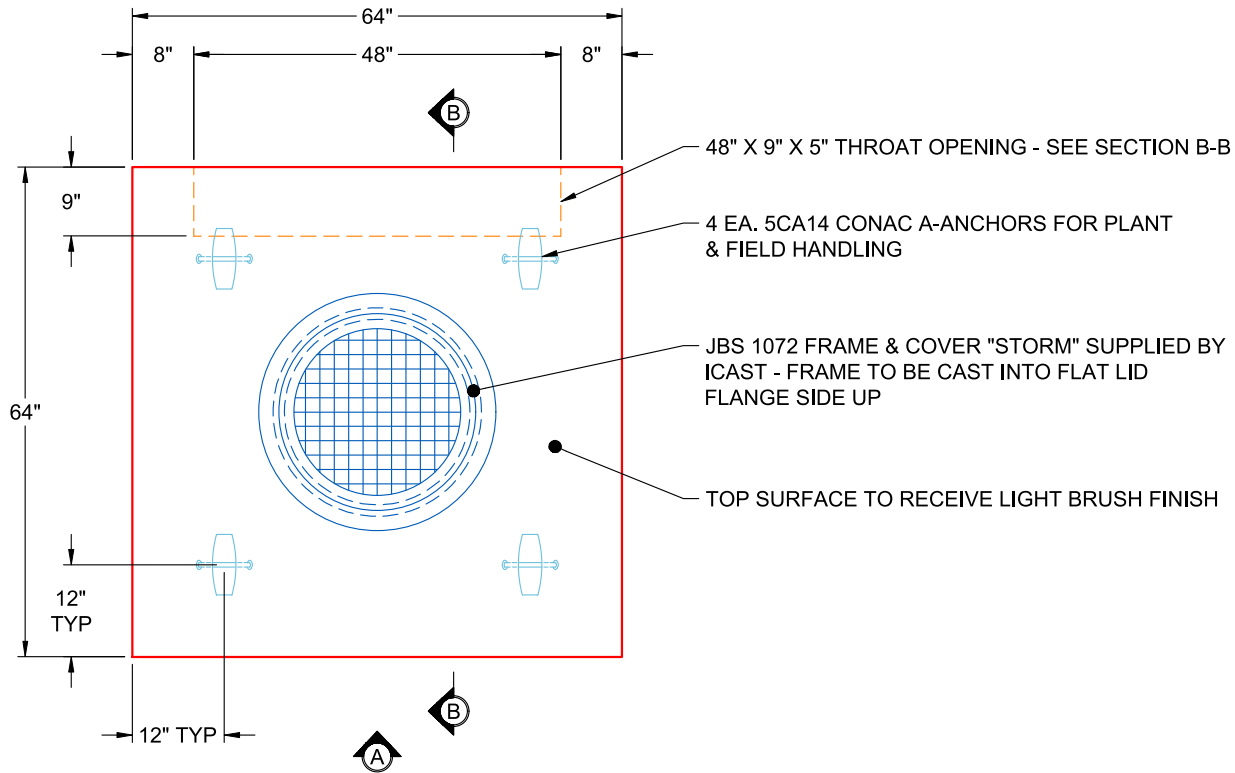
CB FLAT TOP 8"W SPEC. (JBS 1072) F/F

- P3) 24" - CASTING (cast in) - 4"
P2) 48" x 48" - CB FLAT TOP 8"W SPEC. (JBS 1072) F/F - 8"
P1) 48" x 48" - BX BASE w/FLANGE 08W/08F/12EF F/n - 59"
1) SECONDARY POUR - Extended Flange
1) This Structure Includes a Cast-in Item - JBS 1072 Frame (Supplied by iCast)
1) CASTING - JBS 1072 F/C STORM
1) 48" x 48" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
1) Hole - 30
1) Horiz Slot n/n - 48"x9"
2) Vert. Slot n/n - 12"x13"

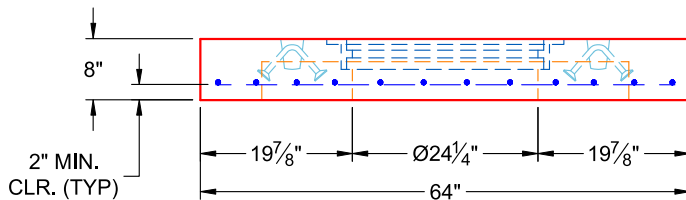
Structure Total: 16135 lb

Structure Notes:

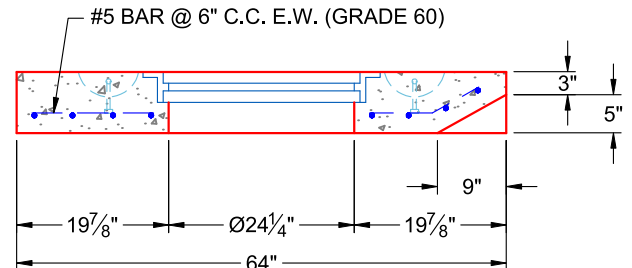
1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. JBS 1072 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO FLAT LID FLANGE SIDE UP
5. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN
6. TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH



**PLAN VIEW
(RIGHT SIDE UP)**



**VIEW A
(RIGHT SIDE UP)**



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

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 2598 lb
Volume (Net): 0.66cu.yd

Job Number:

26-1075

Job Name:

Walmart Fuel Station 00674-1008

Structure:

CI 1 (3)

Note:

JBS 1072 Frame Supplied By iCast
To Be Cast Into Flat Lid Flange Side
Up

Job Name: 26-2574 - Moore Grease Traps
Job Location: Clarksville, TN 37043
Contractor: Core & Main LP (Nashville)

Plant: Beaver Dam, KY
6/2/2026 4:40:57 PM

Tech: K. Cardwell
PC: T. Lewis



Structure ID: QL2 GT1000 (5)

P2 BX60120-06LD08

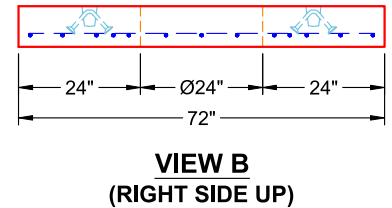
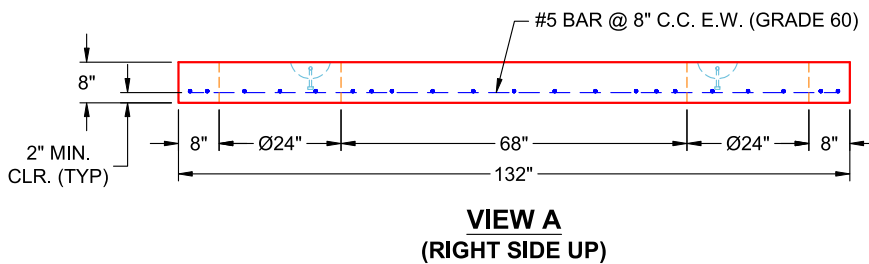
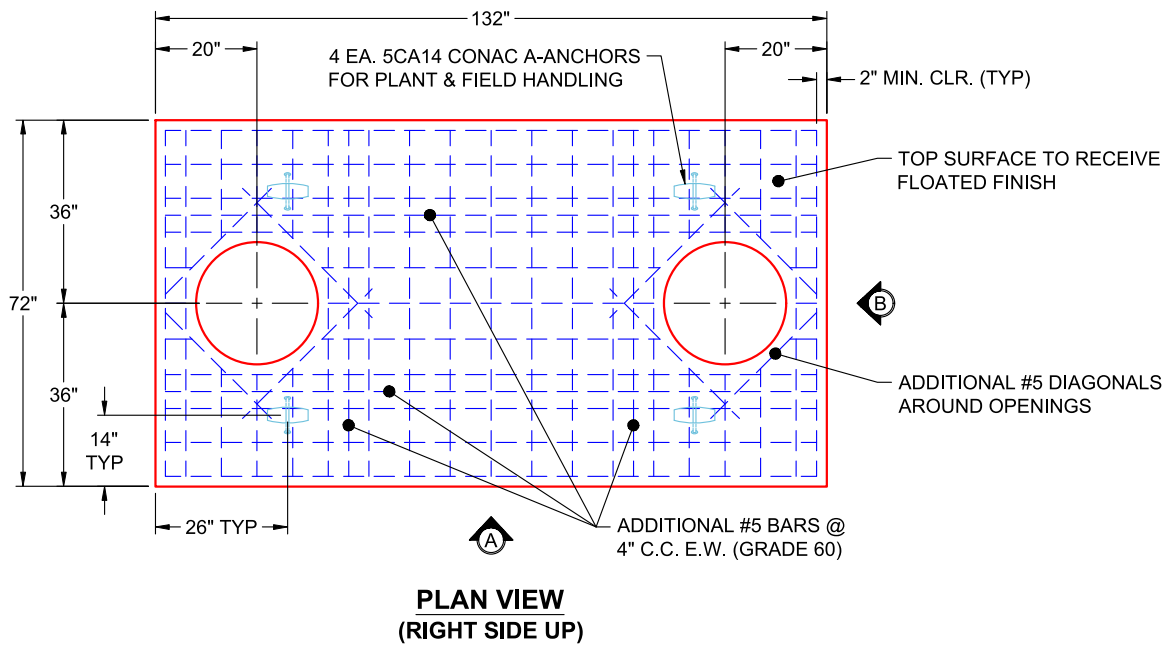
CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F

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

0 lb
5775 lb
16155 lb
975 lb
0 lb
0 lb
13 lb
Structure Total: 22918 lb

Structure Notes:

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



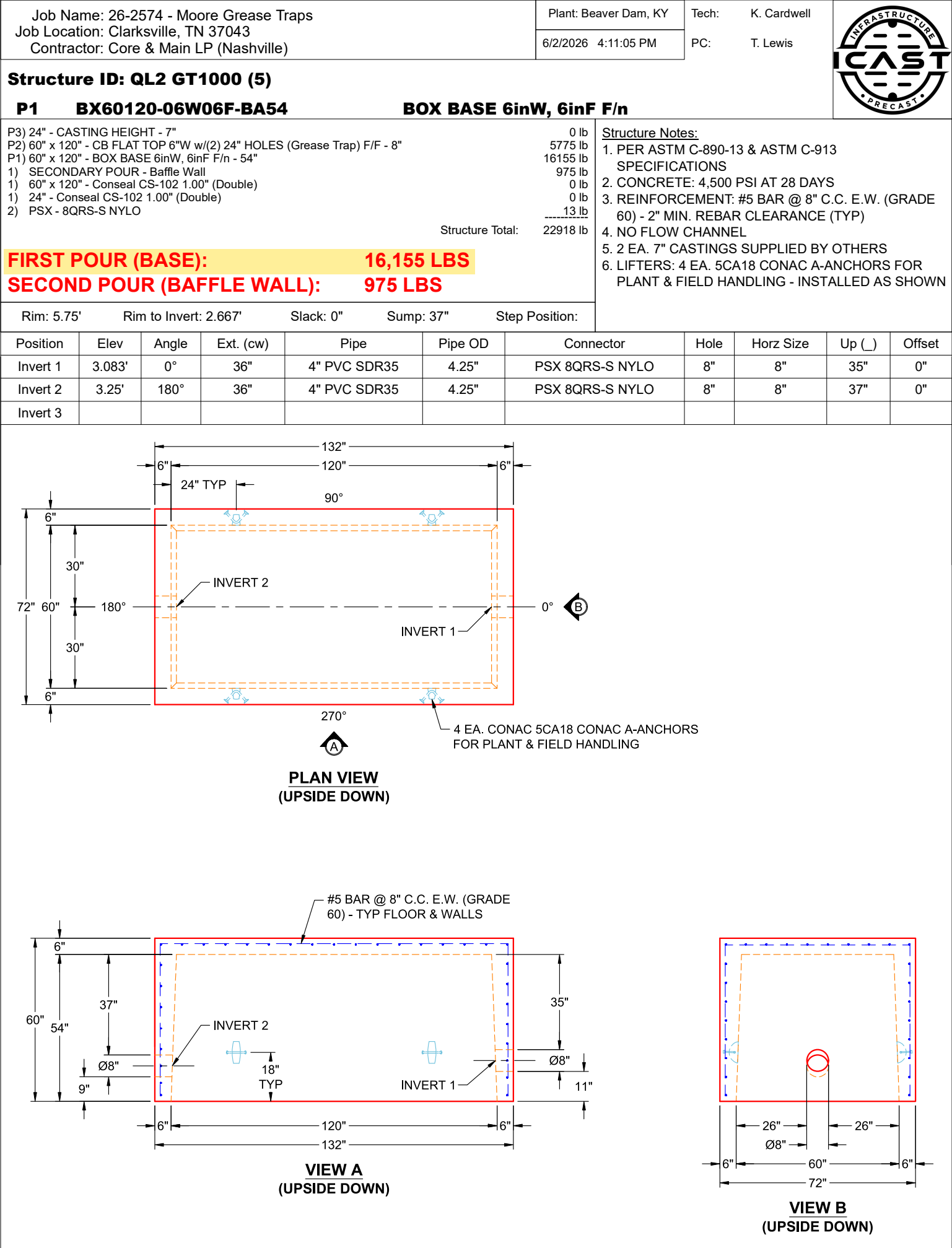
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

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



Job Name: 26-2574 - Moore Grease Traps
Job Location: Clarksville, TN 37043
Contractor: Core & Main LP (Nashville)

Plant: Beaver Dam, KY
6/2/2026 4:11:05 PM

Tech: K. Cardwell
PC: T. Lewis



Structure ID: QL2 GT1000 (5)

P1 BX60120-06W06F-BA54

BOX BASE 6inW, 6inF F/n

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

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

22918 lb

Structure Total: 22918 lb

Structure Notes:

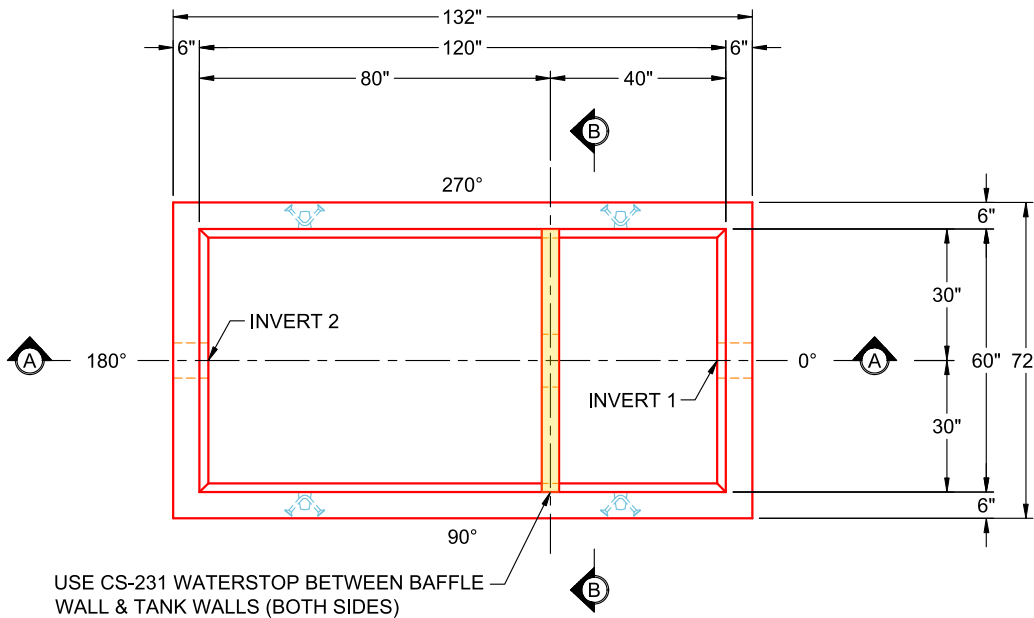
1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR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

FIRST POUR (BASE): 16,155 LBS

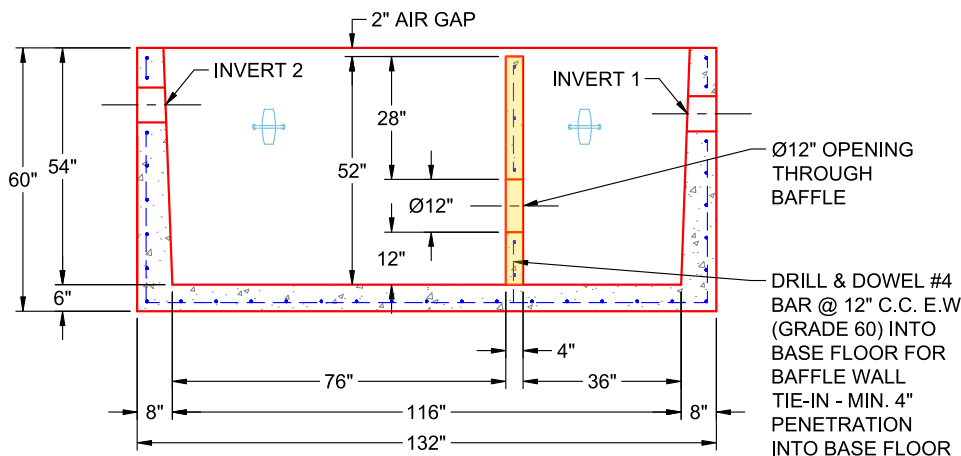
SECOND POUR (BAFFLE WALL): 975 LBS

Rim: 5.75' Rim to Invert: 2.667' Slack: 0" Sump: 37" Step Position:

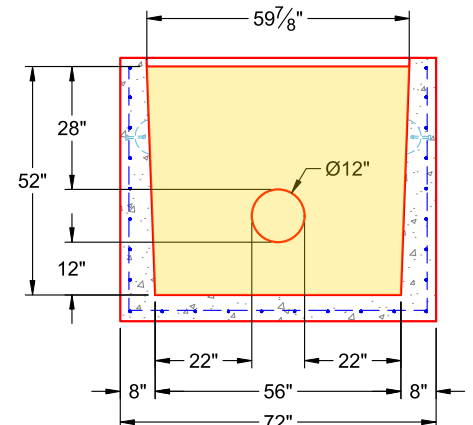
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



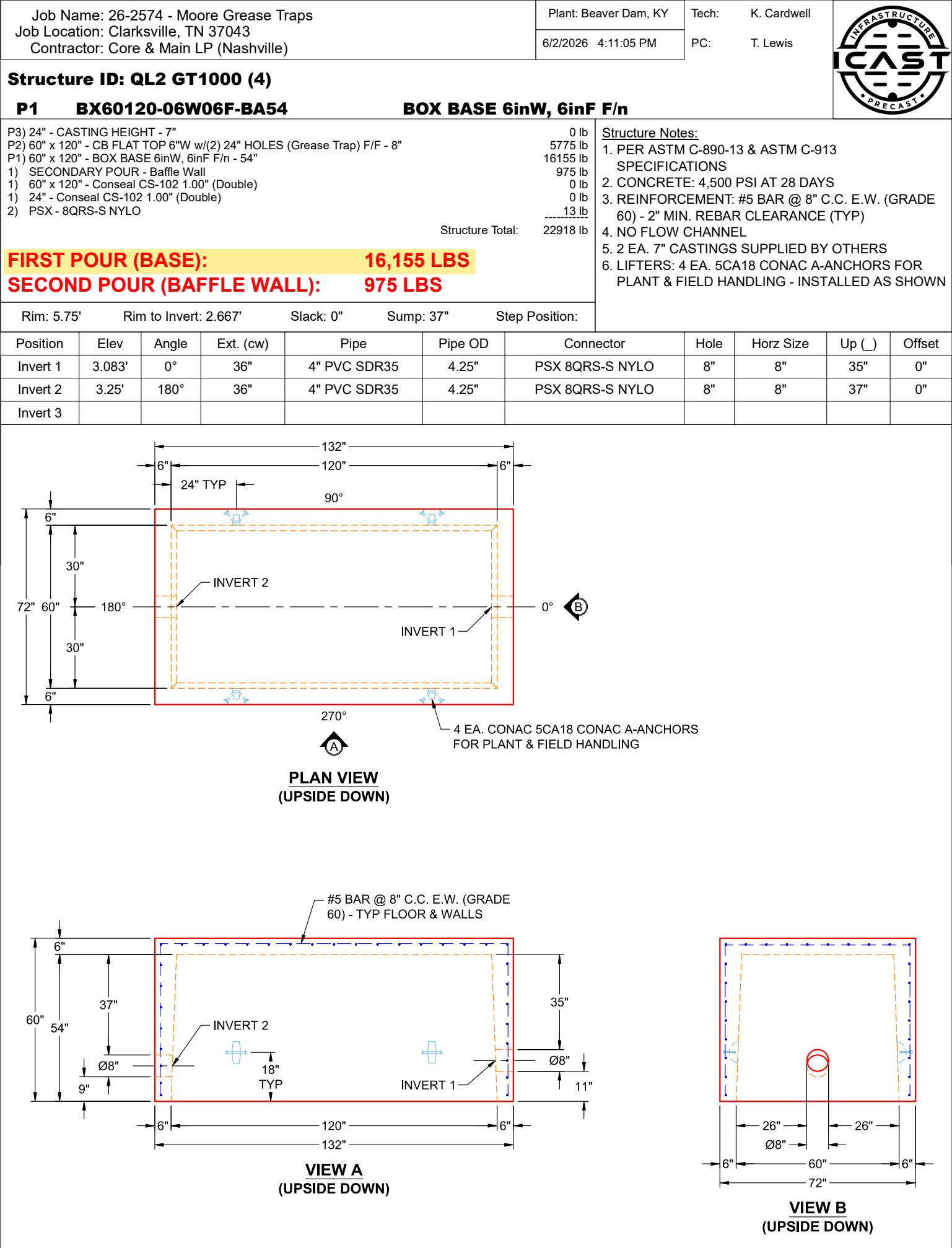
**PLAN VIEW
(RIGHT SIDE UP)**



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



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



Job Name: 26-2574 - Moore Grease Traps
Job Location: Clarksville, TN 37043
Contractor: Core & Main LP (Nashville)

Plant: Beaver Dam, KY
6/2/2026 4:11:05 PM

Tech: K. Cardwell
PC: T. Lewis



Structure ID: QL2 GT1000 (4)

P1 BX60120-06W06F-BA54

BOX BASE 6inW, 6inF F/n

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

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

22918 lb

Structure Total: 22918 lb

Structure Notes:

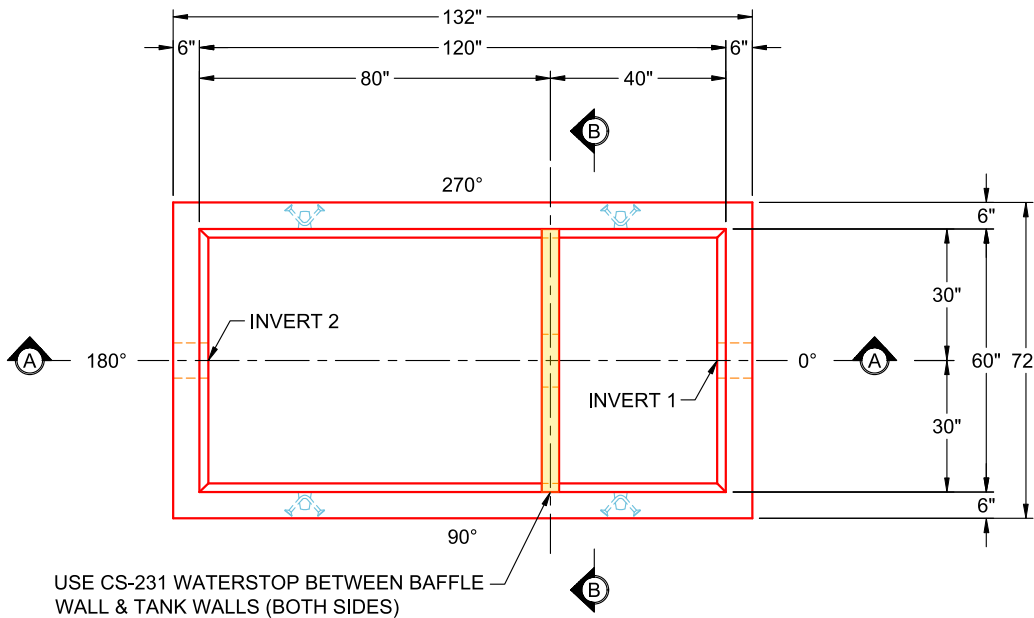
1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR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

FIRST POUR (BASE): 16,155 LBS

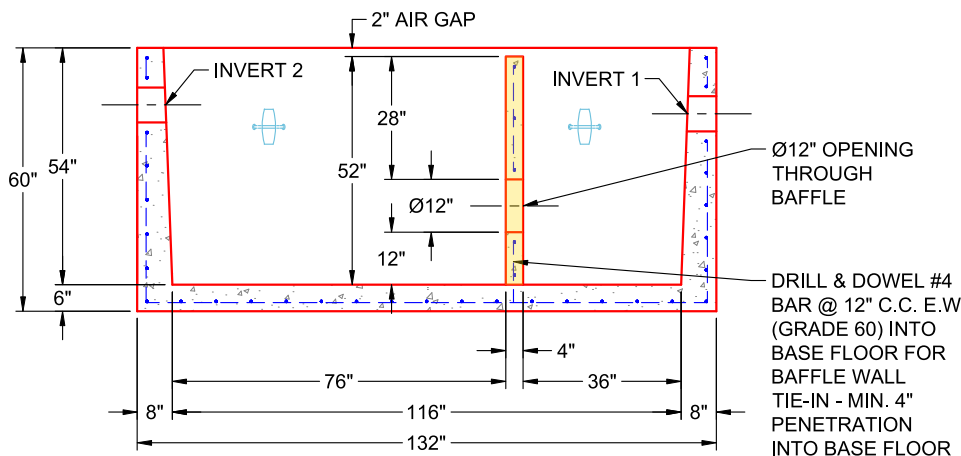
SECOND POUR (BAFFLE WALL): 975 LBS

Rim: 5.75' Rim to Invert: 2.667' Slack: 0" Sump: 37" Step Position:

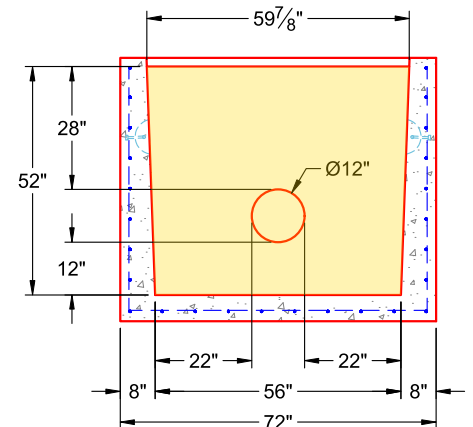
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



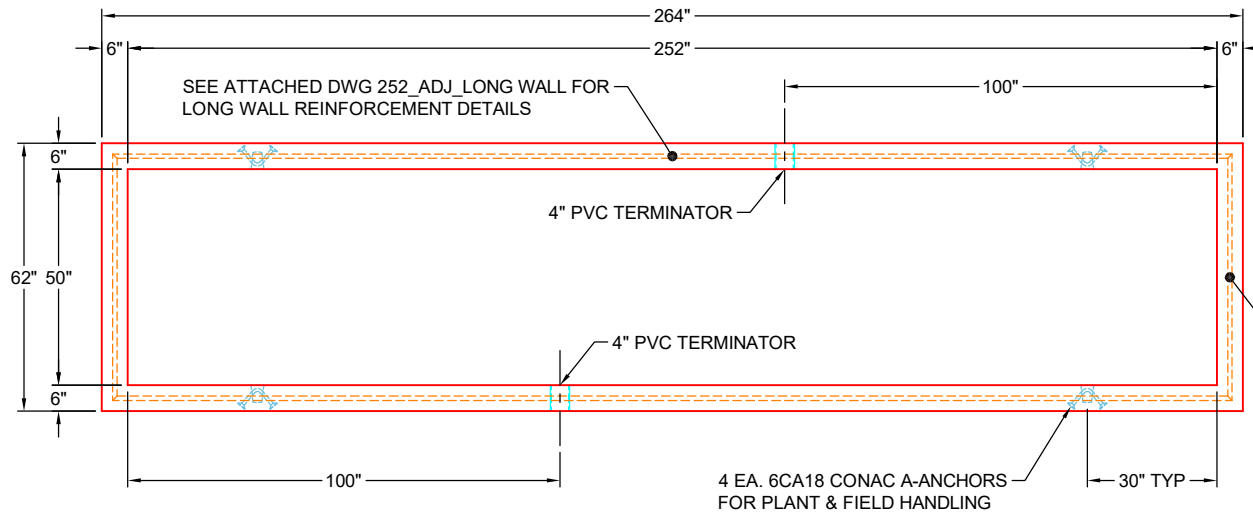
**PLAN VIEW
(RIGHT SIDE UP)**



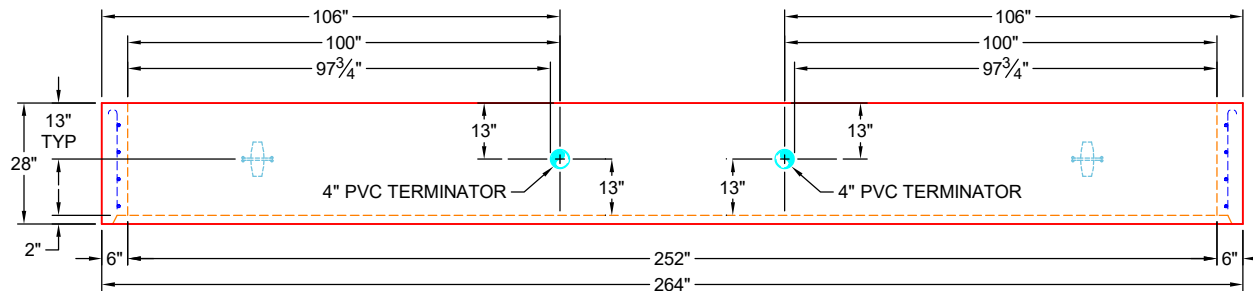
**SECTION A-A
(RIGHT SIDE UP)**



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



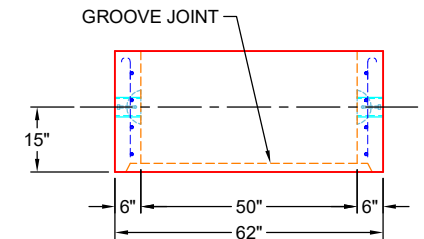
**PLAN VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT - MIN. 1½" REBAR
CLEARANCE:
- LONG WALLS: PER ATTACHED DWG 252_ADJ_LONG WALL
- SHORT WALLS: PER ATTACHED DWG SHORT WALL
4. WEIGHTS: 9,178 LBS



**SIDE VIEW
(RIGHT SIDE UP)**

PRODUCTION WORK ORDER

PRODUCT I.D.: CVR

DESCRIPTION: 50" X 252" X 28" RISER



QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ HOLE LOCATION(S) CORRECT.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ GROOVE JOINT INSTALLED.

PRODUCT VIEW: UPSIDE DOWN

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 6-25 691254033

WEIGHT: 9,178 LBS

STRUCTURE: 2-61620 2 (EFX-60 21 PN VAULT)

TOP SECTION JOINT: GROOVE

ORDER NO: 26-1620

BASE SECTION JOINT: N / A

PE: J.H. ROSS

DRAWING: J.HORSLEY

QC CHECK INITIALS:

DATE: 04/24/26

SCALE: NTS

PG. 1 OF 1

4

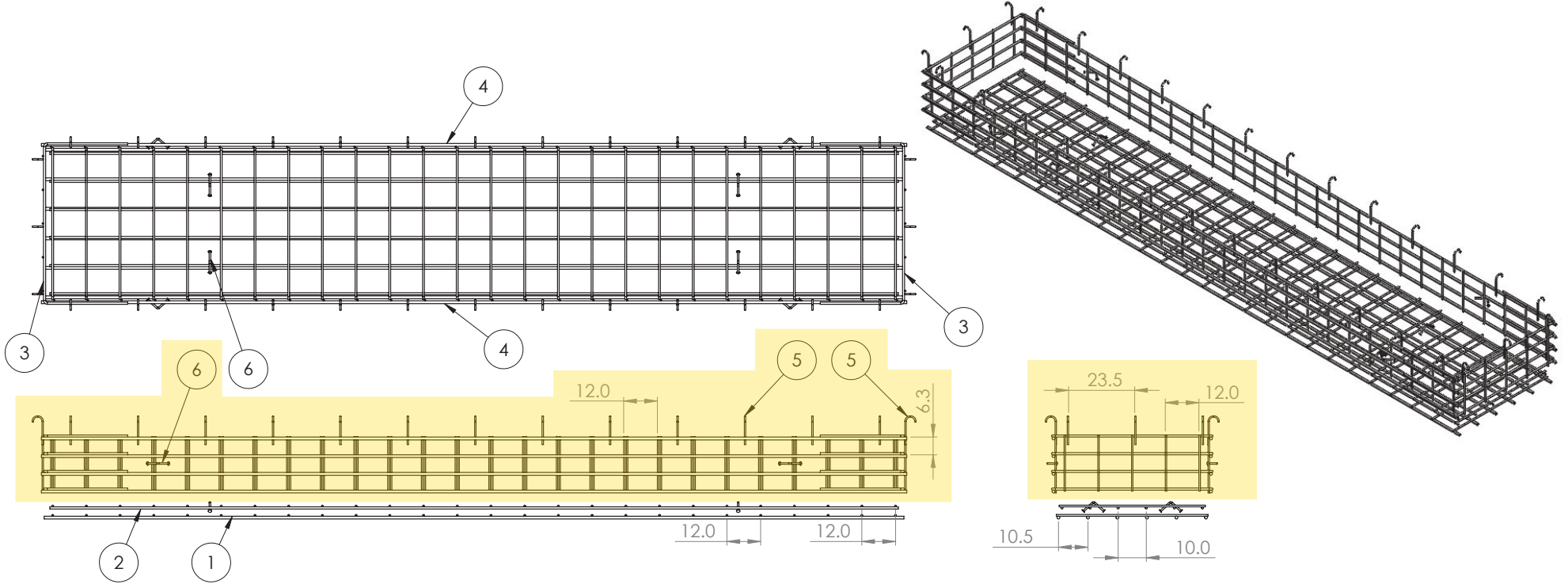
3

2

1

B

B



ITEM NO.	PART NUMBER	Qty.
1	252_Base_Bottom Mat	1
2	252_Base_Top Mat	1
3	Short Wall	2
4	252_ADJ_Long Wall	2
5	#4 0904J	32
6	6CA18	8

NOTES:

1. Rebar: #5, #6, #8 A614 Grade 60
2. All Rebar to have 1.5" Cover Minimum

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WRITTEN PERMISSION OF
ENDESOL INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	ENDESOL TITLE: EFX-60 Adjustable Section Rebar Layout SIZE B DWG. NO. EFX-60 ADJ Rebar REV X1 SCALE: 1:50 WEIGHT: SHEET 1 OF 1	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL 1/8"	DRAWN	CMJ		3-25-16
		TWO PLACE DECIMAL .13 THREE PLACE DECIMAL .125	CHECKED	JHR		3-25-16
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.	XXXX		XXXX
		MATERIAL Rebar A614 G60	MFG APPR.	XXXX		XXXX
		FINISH MILL	Q.A.	XXXX		XXXX
		COMMENTS:				
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING			

4

3

2

1

A

A

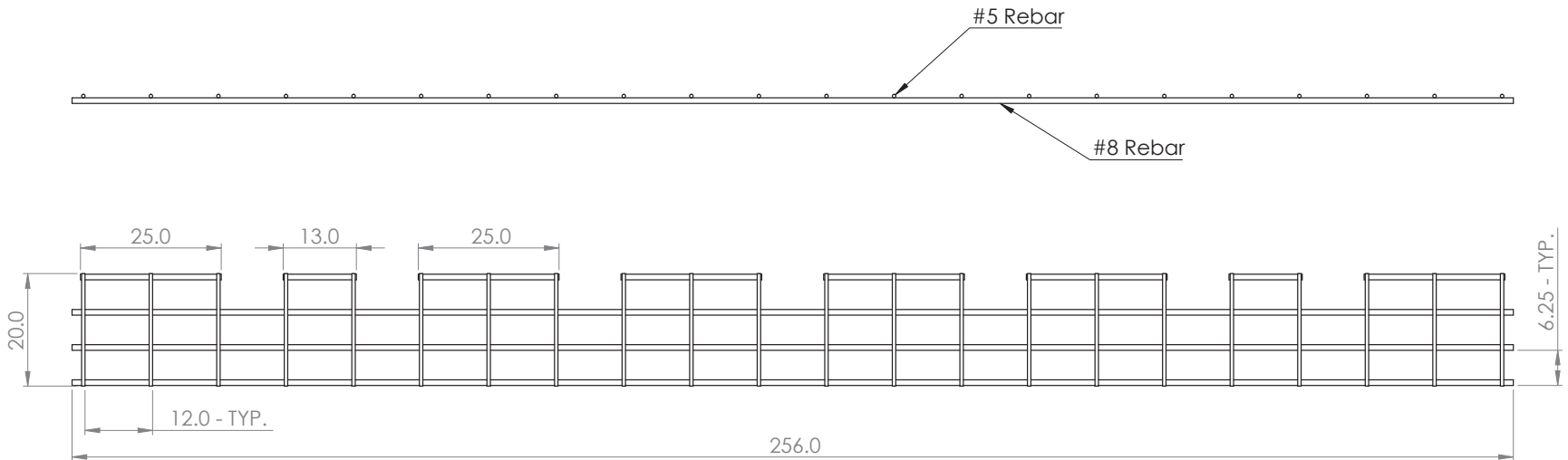
4

3

2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	#8_256.0	#8 Rebar	3
2	#5_20.0	#5 Rebar	22
3	#8_25.0	#8 Rebar	6
4	#8_13.0	#8 Rebar	2



981 W. 7th Street
Beaver Dam, KY
42320
P 270-363-2238
F 270-363-2234
iCastinc.com

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: $\pm$
ANGULAR: MACH: $\pm$ BEND: $\pm$
DECIMAL: $\pm$ 0.5"

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	CMJ	8/3/20
CHECKED	JHR	8/3/20
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

SIZE DWG. NO. REV.
B 252_ADJ_Long Wall
SCALE: 1:50 WEIGHT: SHEET 1 OF 1

4

3

2

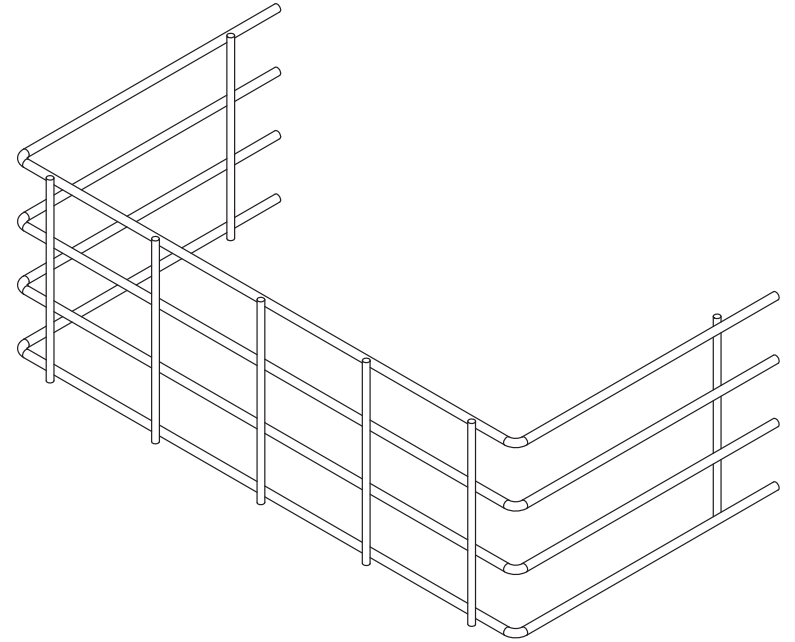
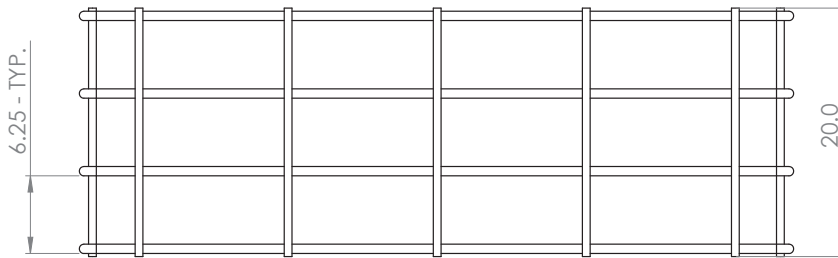
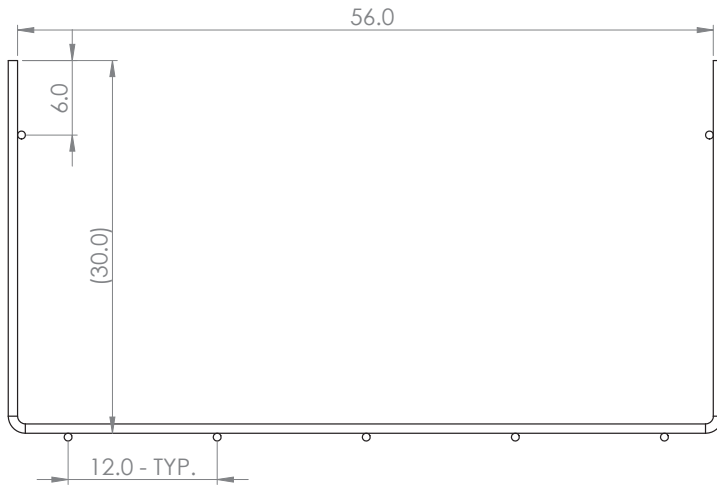
1

4

3

2

1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6SH	#6 Formed Rebar	4
2	#5_20.0	#5 Rebar	7



981 W. 7th Street
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42320
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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: $\pm$
ANGULAR: MACH: $\pm$ BEND: $\pm$
TWO PLACE DECIMAL: $\pm$
THREE PLACE DECIMAL: $\pm$

MATERIAL

FINISH

DO NOT SCALE DRAWING

DRAWN
CHECKED
ENG APPR.
MFG APPR.

NAME
XXX
Q.A.
COMMENTS

DATE

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SIZE DWG. NO. Short Wall
SCALE: 1:10 WEIGHT: SHEET 1 OF 1

Job Number:

26-1620

Job Name:

6-25 691254033

Structure:

2-61620 2

Note:

Nosing Kit To Be Shipped. See Chad Jarvis.