

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

Plant: Beaver Dam
6/5/2026 8:56:27 AM

Tech: S. Felletter
PC: C. Goff



Structure ID: 10-CS-12

P1 MH144BVF

MH MONOBASE 14F, Custom Ht T/n

- P6) 24" - CASTING HEIGHT - 4"
P5) 144" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18"
P4) 144" - MH RISER T/G - 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

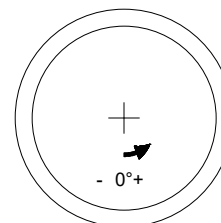
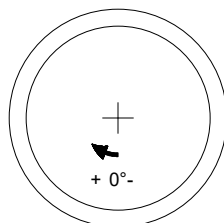
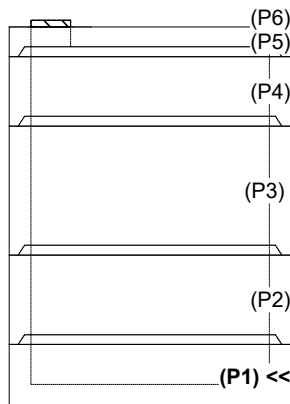
- REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .36)
- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

Rim: 1019.03' Rim to Invert: 9.83' Slack: 5.996" Sump: 108.036" Step Position:

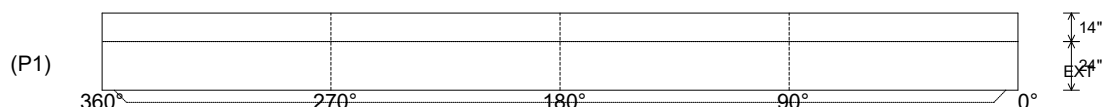
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 13"
Floor Height: 14"

Height (Int): 24"
Height (Ext): 38"

Weight (Net): 39578 lb
Volume (Net): 10.11cu.yd



Weight (Net): 2515 lb
Volume (Net): 0.64cu.yd

Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A10

Note:

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

Job Name: 24-2716B - 905 E Trinity

Job Location: Nashville, TN

Contractor: Hayes Pipe Supply

Plant: 100

6/5/2026 12:26:15 PM

Tech: Jared - F

PC: A. Chambers

Structure ID: SSMH-A1

P1 MH048BA60CDARED

MH BASE w/ConBlock-CDA Red T/n

P3) 24" - CASTING HEIGHT - 7"

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

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 60"

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

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

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

1) ADMIXTURE CONBLOCK CDA RED

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

1) PSX - 12M NYLO

1) Drop Tee - 6" PVC

1) PSX - 12-08 NYLO

1) Drop Elbow - 6" PVC

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

0 lb

1297 lb

5398 lb

0 lb

0 lb

1440 lb

0 lb

0 lb

8 lb

0 lb

8 lb

0 lb

0 lb

0 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING SUPPLIED BY OTHERS. (JBS 1150 "SANITARY").

5. EXTERIOR DROP ASSEMBLY FROM INVERT 2 TO INVERT 4 SUPPLIED BY ICAST.

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

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

Structure Total: 8151 lb

Rim: 562.65'

Rim to Invert: 7.47'

Slack: 0.64"

Sump: 2"

Step Position: 180

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	555.18'	0°	0"	8" DI	9"	PSX 12M NYLO	12"	12.129"	0"	0"
Invert 2	558.5'	91°	46"	6" PVC SDR35	6.25"	Drop Tee 6" PVC	6.5"	6.52"	41.625"	0"
Invert 3	555.38'	254°	128.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 4	555.48'	91°	46"	6" PVC SDR35	6.25"	Drop Elbow 6" PVC	6.5"	6.52"	5.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

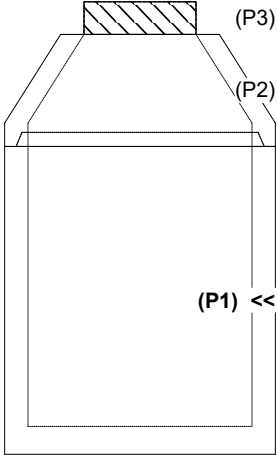
Height (Int): 60"

Height (Ext): 66"

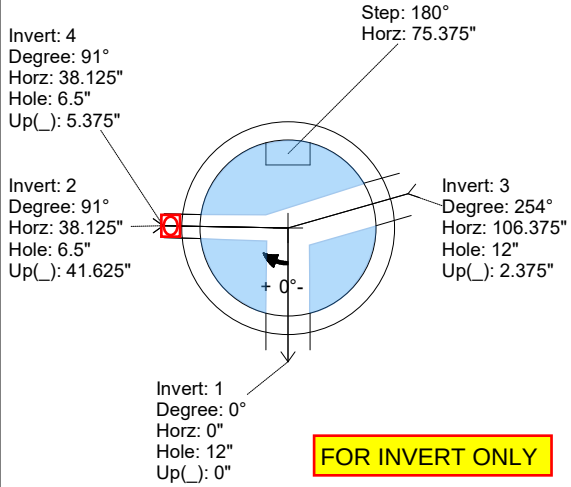
Weight (Net): 5398 lb

Volume (Net): 1.38cu.yd

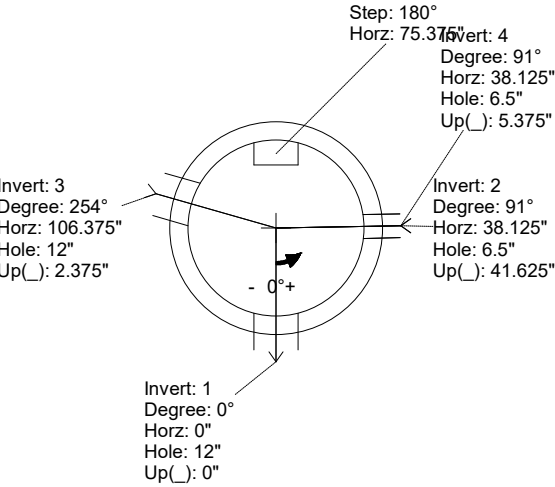
Job Name: 24-2716B - 905 E Trinity Job Location: Nashville, TN Contractor: Hayes Pipe Supply					Plant: 100 6/5/2026 12:26:15 PM		Tech: Jared - F PC: A. Chambers			
Structure ID: SSMH-A1										
P1 MH048BA60CDARED			MH BASE w/ConBlock-CDA Red T/n							
P3) 24" - CASTING HEIGHT - 7" P2) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 60" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) 48" - Conseal CS-102 1.00" (Double) 1) PSX - 12M NYLO 1) Drop Tee - 6" PVC 1) PSX - 12-08 NYLO 1) Drop Elbow - 6" PVC 7) MH Step ML-10-TDS-NCR - 10"					0 lb 1297 lb 5398 lb 0 lb 0 lb 1440 lb 0 lb 0 lb 8 lb 0 lb 8 lb 0 lb 0 lb ----- Structure Total: 8151 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING SUPPLIED BY OTHERS. (JBS 1150 "SANITARY"). 5. EXTERIOR DROP ASSEMBLY FROM INVERT 2 TO INVERT 4 SUPPLIED BY ICAST. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 562.65' Rim to Invert: 7.47' Slack: 0.64" Sump: 2" Step Position: 180										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	555.18'	0°	0"	8" DI	9"	PSX 12M NYLO	12"	12.129"	0"	0"
Invert 2	558.5'	91°	46"	6" PVC SDR35	6.25"	Drop Tee 6" PVC	6.5"	6.52"	41.625"	0"
Invert 3	555.38'	254°	128.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	2.375"	0"
Invert 4	555.48'	91°	46"	6" PVC SDR35	6.25"	Drop Elbow 6" PVC	6.5"	6.52"	5.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										



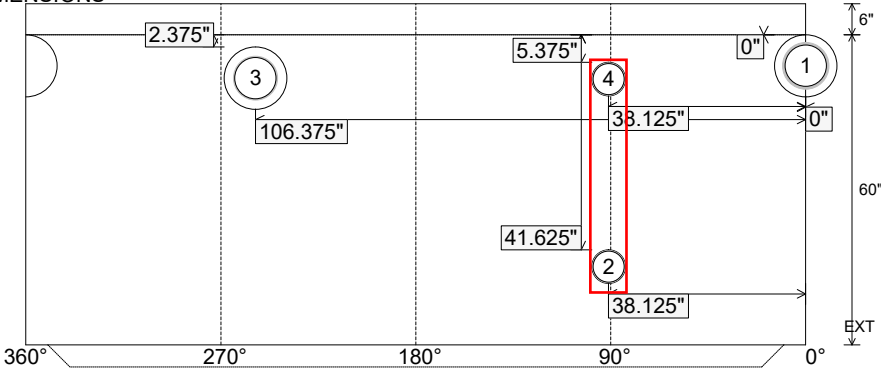
RIGHT-SIDE UP VIEW (int. dimensions)



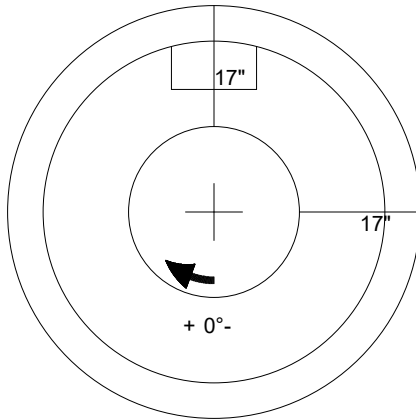
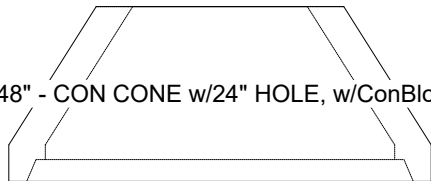
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 60" Height (Ext): 66"	Weight (Net): 5398 lb Volume (Net): 1.38cu.yd
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Job Name: 24-2716B - 905 E Trinity		Plant: 100	Tech: Jared - F	
Job Location: Nashville, TN		6/5/2026 12:26:27 PM	PC: A. Chambers	
Contractor: Hayes Pipe Supply				
Structure ID: SSMH-A1				
P2 MH048CCN24CDARED		CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G		
P3) 24" - CASTING HEIGHT - 7" P2) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 60" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) 48" - Conseal CS-102 1.00" (Double) 1) PSX - 12M NYLO 1) Drop Tee - 6" PVC 1) PSX - 12-08 NYLO 1) Drop Elbow - 6" PVC 7) MH Step ML-10-TDS-NCR - 10"		0 lb 1297 lb 5398 lb 0 lb 0 lb 1440 lb 0 lb 0 lb 8 lb 0 lb 8 lb 0 lb 0 lb ----- 8151 lb	Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING SUPPLIED BY OTHERS. (JBS 1150 "SANITARY"). 5. EXTERIOR DROP ASSEMBLY FROM INVERT 2 TO INVERT 4 SUPPLIED BY ICAST. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.	
				
48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 24" - (P2) 				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 24"	Weight (Net): 1297 lb Volume (Net): 0.33cu.yd

Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100		Tech: J. Horsley			
					5/19/2026 12:59:31 PM		PC: C. Golf			
Structure ID: SSMH CC-2-DROP										
P1 MH048BAVF-D			MH BASE w/DROP Custom Ht T/n							
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 30" P2) 48" - MH RISER w/DROP T/G - 60" P1) 48" - MH BASE w/DROP Custom Ht T/n - 20" 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-350 F/C Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 NYLO 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 10) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 4168 lb 3774 lb 1440 lb 0 lb 0 lb 305 lb 0 lb 8 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 11745 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE. 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: 859.5' Rim to Invert: 9.65' Slack: 0.8" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	849.85'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3	849.95'	180°	91.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	3"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 20" Height (Ext): 26"	Weight (Net): 3774 lb Volume (Net): 0.96cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1)
 Job Location: Richmond, KY
 Contractor: Seven Earthmovers LLC

Plant: 100

5/19/2026 12:59:31 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: SSMH CC-2-DROP

P1A MH048BAVF-D

MH BASE w/DROP Custom Ht T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 48" - ECC CONE w/ 24" HOLE F/G - 30"
 P2) 48" - MH RISER w/DROP T/G - 60"
 P1) 48" - MH BASE w/DROP Custom Ht T/n - 20"
 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-350 F/C Sanitary
 2) 48" - Conseal CS-102 1.00" (Double)
 1) PSX - 12-08 NYLO
 1) Drop Tee - 8" PVC
 1) Drop Elbow - 8" PVC
 10) MH Step ML-10-TDS-NCR - 10"

0 lb
 2050 lb
 4168 lb
 3774 lb
 1440 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 11745 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE.

REINFORCING PER ASTM A615 (GRADE 60).

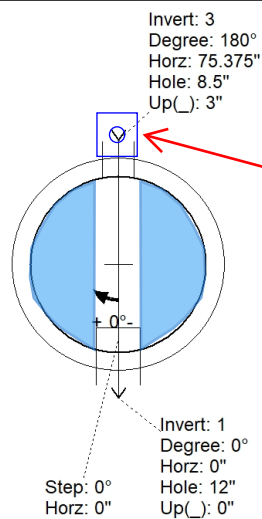
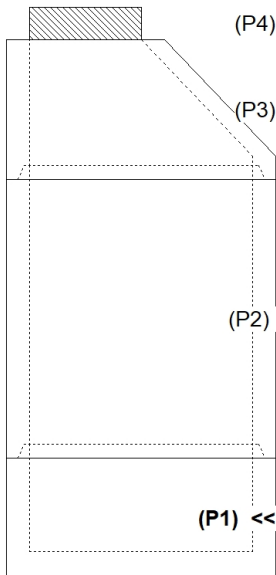
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 859.5' Rim to Invert: 9.65' Slack: 0.8" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	849.85'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3	849.95'	180°	91.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	3"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

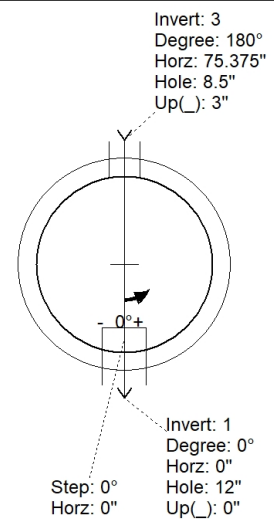
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

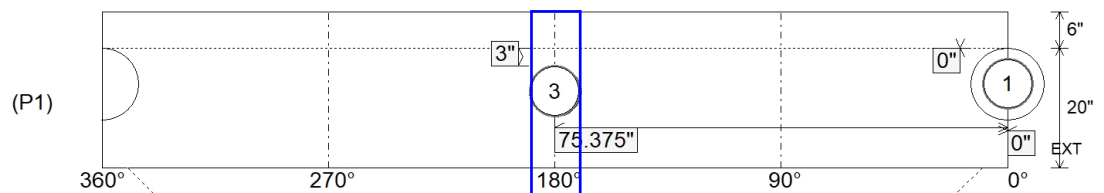


8" DROP ELBOW AT 180°

FOR INVERT ONLY



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

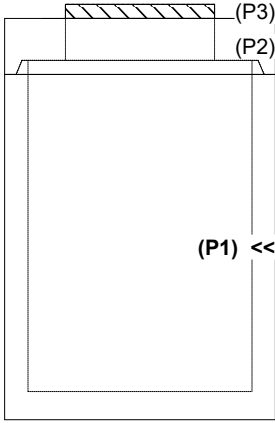
Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

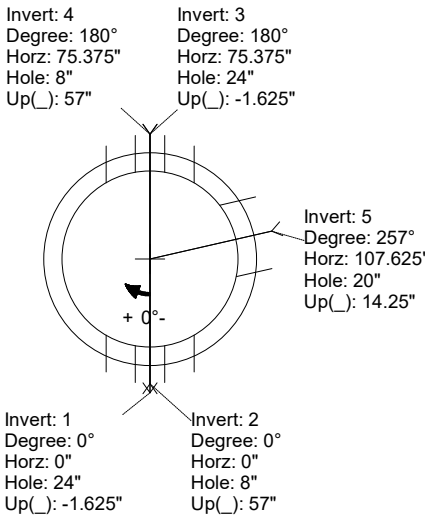
Height (Int): 20"
 Height (Ext): 26"

Weight (Net): 3774 lb
 Volume (Net): 0.96cu.yd

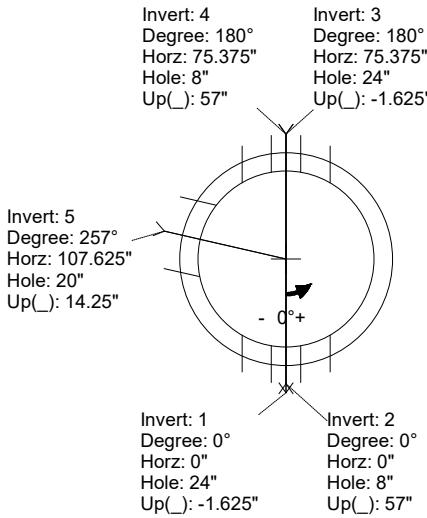
Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements Job Location: Louisville, KY 40208 Contractor: Louisville Paving and Construction					Plant: 100 4/30/2026 1:21:41 PM		Tech: Jared - F PC: J. Jarvis			
Structure ID: S108										
P1 MH048BAVF		MH BASE Custom Ht T/n								
P3) 32" x 32" - CASTING HEIGHT - 3" P2) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12" P1) 48" - MH BASE Custom Ht T/n - 68" 1) CASTING - HOE 595 F/G 1) 48" - Conseal CS-102 1.00" 1) 32" x 32" - Conseal CS-102 1.00" 2) Hole - 24 2) Hole - 8 1) Hole - 20					0 lb 1629 lb 5509 lb 376 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 7514 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.			
Rim: 454.75' Rim to Invert: 6.99' Slack: 0.88" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	447.76'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	452.52'	0°	0"	6" PVC SDR35	6.25"	Hole 8	8"	8.038"	57"	0"
Invert 3	447.76'	180°	91.125"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 4	452.52'	180°	91.125"	6" PVC SDR35	6.25"	Hole 8	8"	8.038"	57"	0"
Invert 5	449.06'	257°	130.125"	15" HDPE	17.6"	Hole 20	20"	20.629"	14.25"	0"
Invert 6										
Invert 7										
Invert 8										



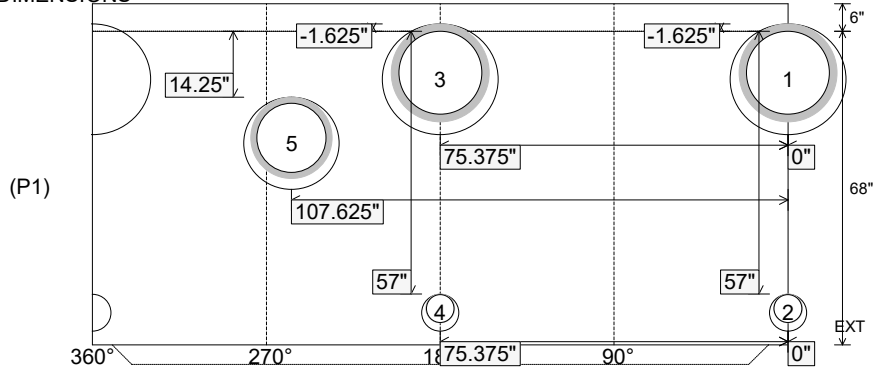
RIGHT-SIDE UP VIEW (int. dimensions)



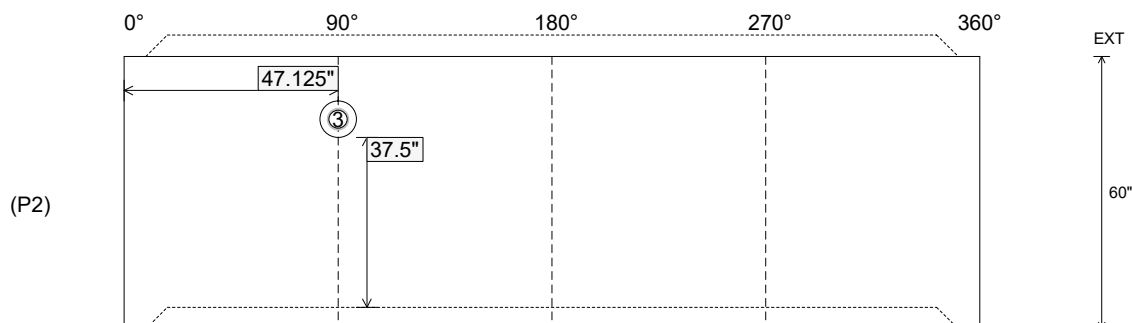
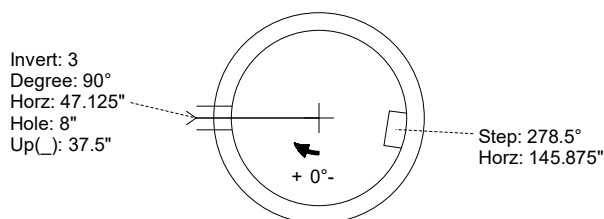
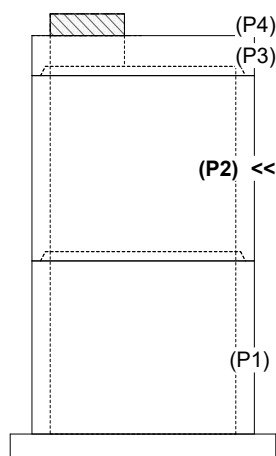
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 68" Height (Ext): 74"	Weight (Net): 5509 lb Volume (Net): 1.41cu.yd
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[illegible]

Weight (Net): 6238 lb
Volume (Net): 1.59cu.yd

Job Number:

25-3579

Job Name:

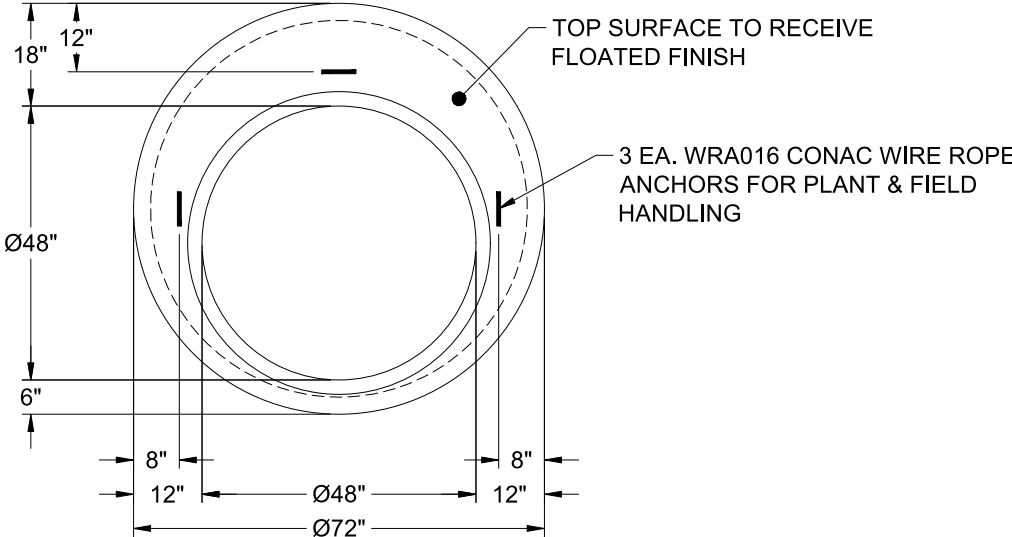
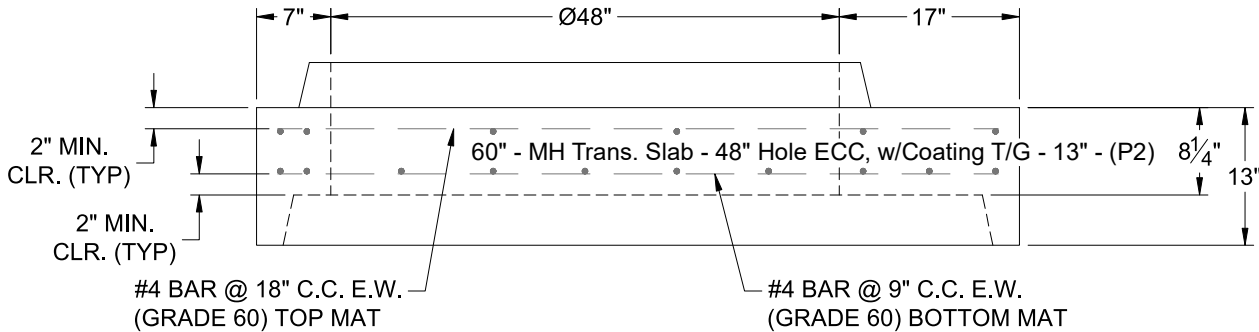
Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A11

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 1:26:03 PM	Tech: J. Horsley PC: C. Goff	
Structure ID: MH A10		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 - 36" 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 2) JOINT WRAP - 12" WD x 048" MAC WRAP 1) SECONDARY POUR - Extended Flange 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 12) MH Step ML-10-TDS-NCR - 10" 260.44 SqFt) Carboline Bitumastic 300M [EXT]		0 lb 2251 lb 2515 lb 1928 lb 10483 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 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	
Structure Total:		19871 lb		
				
				
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:

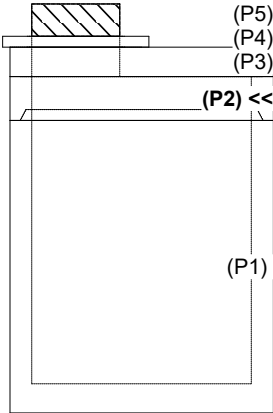
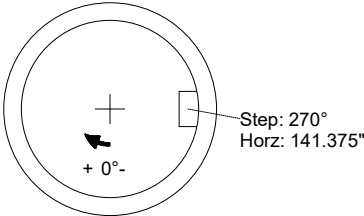
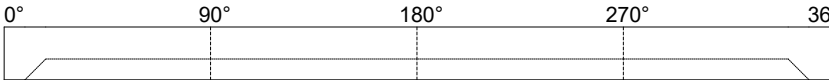
Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

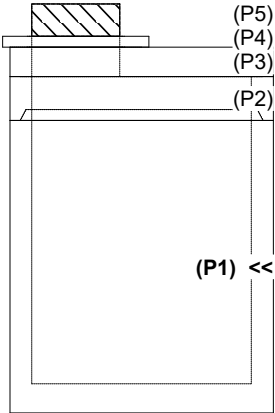
MH A10

Note:

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

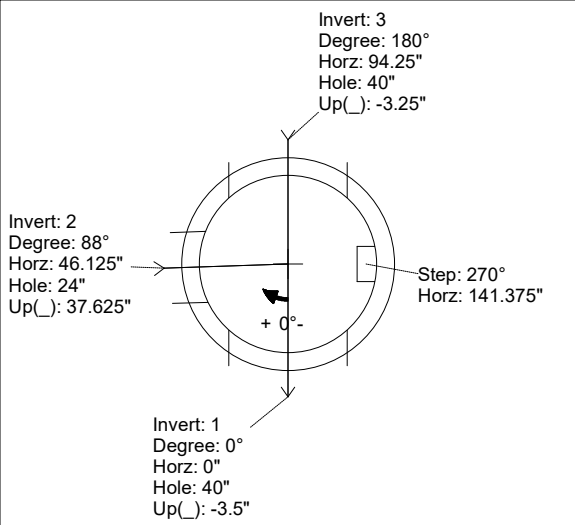
Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:42:32 PM		Tech: Jared - F PC: E. Bradley					
Structure ID: MH-04												
P2		MH060RS12		MH RISER F/G								
P5) 24" - CASTING HEIGHT - 8.85" P4) 24" - GRADE RING F/F - 3" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/F - 8" P2) 60" - MH RISER F/G - 12" P1) 60" - MH BASE T/h - 72" 1) CASTING - NEENAH R-1785 (F/C) 2) 60" - Conseal CS-102 1.00" 2) Hole - 40 1) Hole - 24 7) MH Step ML-10-TDS-NCR - 10"					0 lb 202 lb 2429 lb 1253 lb 8653 lb 294 lb 0 lb 0 lb 0 lb 0 lb ----- 12832 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. INVERT CHANNEL (BY OTHERS). 4. CASTING BY I-CAST (NEENAH R-1785 (F/C)). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.					
Rim: 604.3'					Rim to Invert: 8.67'		Slack: 0.19"		Sump: 0"		Step Position: 270°	
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset		
Invert 1												
Invert 2												
Invert 3												
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												
RIGHT-SIDE UP VIEW (int. dimensions)  												
INSIDE WALL DIMENSIONS  EXT 12"												
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 12" Height (Ext): 12"		Weight (Net): 1253 lb Volume (Net): 0.32cu.yd		

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:42 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: MH-04										
P1 MH060BA72		MH BASE T/n								
P5) 24" - CASTING HEIGHT - 8.85" P4) 24" - GRADE RING F/F - 3" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/F - 8" P2) 60" - MH RISER F/G - 12" P1) 60" - MH BASE T/n - 72" 1) CASTING - NEENAH R-1785 (F/C) 2) 60" - Conseal CS-102 1.00" 2) Hole - 40 1) Hole - 24 7) MH Step ML-10-TDS-NCR - 10"					0 lb 202 lb 2429 lb 1253 lb 8653 lb 294 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 12832 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. INVERT CHANNEL (BY OTHERS). 4. CASTING BY I-CAST (NEENAH R-1785 (F/C)). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.			
Rim: 604.3' Rim to Invert: 8.67' Slack: 0.19" Sump: 0" Step Position: 270°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	595.63'	0°	0"	30" RCP B WALL	37"	Hole 40	40"	43.784"	-3.5"	0"
Invert 2	598.9'	88°	55.25"	18" HDPE	21.2"	Hole 24	24"	24.691"	37.625"	0"
Invert 3	595.65'	180°	113.125"	30" RCP B WALL	37"	Hole 40	40"	43.784"	-3.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



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

RIGHT-SIDE UP VIEW (int. dimensions)



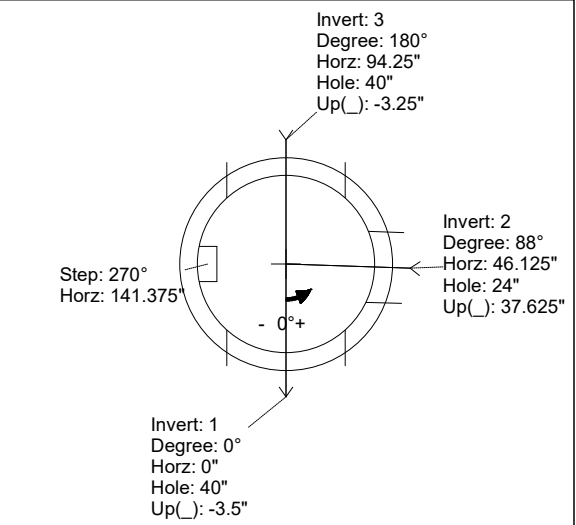
Invert: 3
Degree: 180°
Horz: 94.25"
Hole: 40"
Up(): -3.25"

Invert: 2
Degree: 88°
Horz: 46.125"
Hole: 24"
Up(): 37.625"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 40"
Up(): -3.5"

Step: 270°
Horz: 141.375"

UPSIDE-DOWN VIEW (int. dimensions)



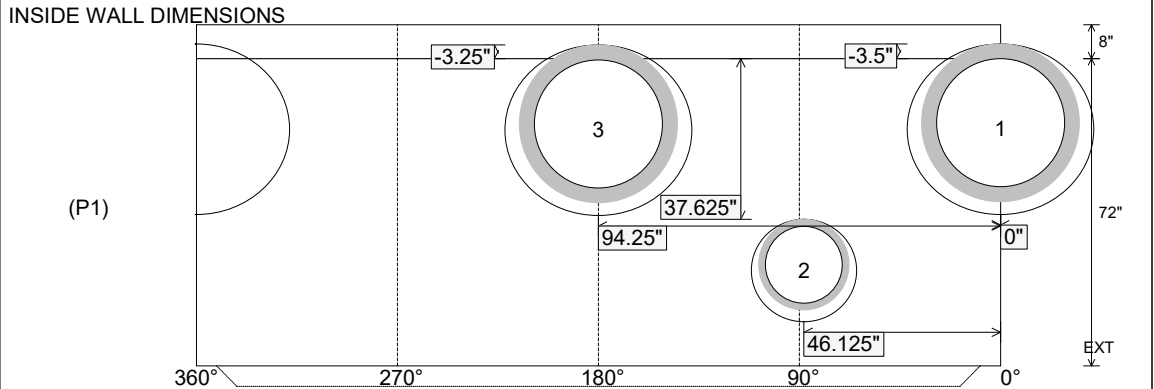
Invert: 3
Degree: 180°
Horz: 94.25"
Hole: 40"
Up(): -3.25"

Invert: 2
Degree: 88°
Horz: 46.125"
Hole: 24"
Up(): 37.625"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 40"
Up(): -3.5"

Step: 270°
Horz: 141.375"

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 72" Height (Ext): 80"	Weight (Net): 8653 lb Volume (Net): 2.21cu.yd
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Job Name: 26-1355 Sinking Creek Rd Sanitary Sewer Ext. Ph. 2
Job Location: London, KY
Contractor: Endesol, Inc.

Plant: Beaver Dam

Tech: S. Felletter

6/4/2026 10:56:33 AM

PC: E. Bradley



Structure ID: Lift Station

P1 MH072BAEVFX

MH BASE SQ EF Cust. Ht. 12"F (EF =102"SQ) w/ XYPEX

- P5) 36" x 36" - CASTING HEIGHT - 0"
P4) 72" - Combined Lift Station Top Slab Custom w/Xypex - 12"
P3) 72" - Combined Lift Station Walls/Floor w/XYPEX - 71"
P2) 72" - MH RISER w/XYPEX - 48.625"
P1) 72" - MH BASE SQ EF Cust. Ht. 12"F (EF =102"SQ) w/ XYPEX - 72"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) This Structure Includes a Cast-in Item
1) SECONDARY POUR - EXT. SLAB
1) SECONDARY POUR - WALLS FOR VAULT SECT.
1) SECONDARY POUR - VAULT EXTENSION
1) ASSEMBLY REQUIRED
1) HATCH (Alum.) - HALLIDAY W1R 34"x52"
1) HATCH (Alum.) - HALLIDAY W1R 36"x36"
1) 72" - DBL 1"x14.5' Butyl (2x)
1) 72" - Conseal CS-231 1.00" (Double)

0 lb
8108 lb
29399 lb
6931 lb
20973 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
46 lb
46 lb
0 lb
0 lb

Structure Notes:

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

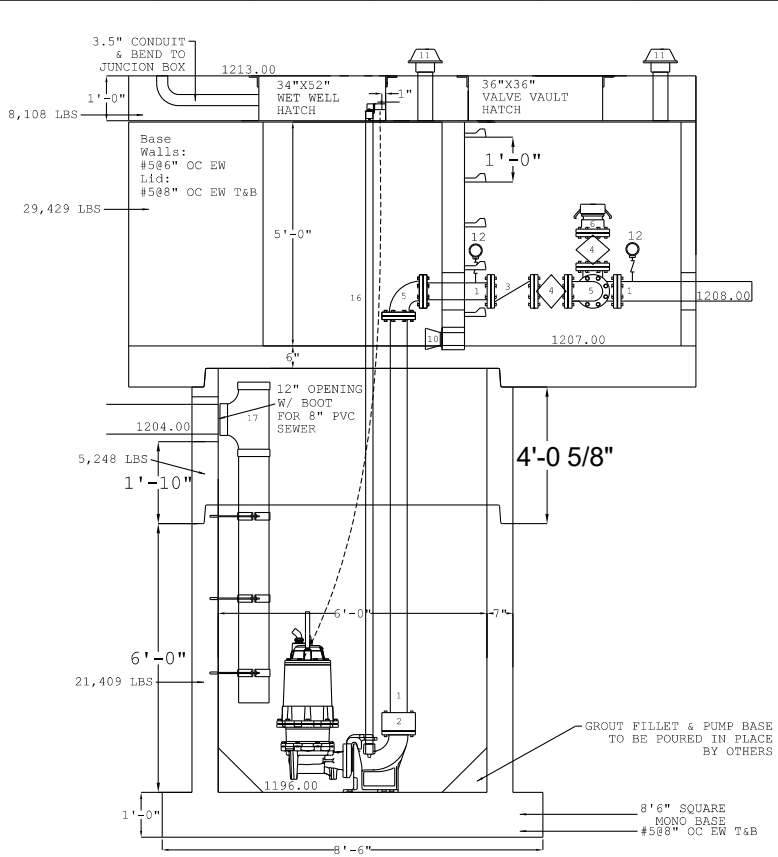
FIRST POUR DRAWING

FIRST POUR - 16,345 LBS.

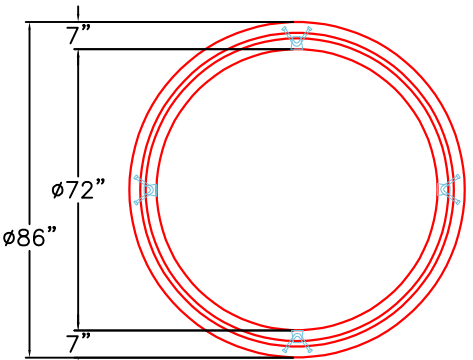
SECOND POUR - 4,628 LBS.

TOTAL - 20,973 LBS.

1) Rim 36" x 36" - Combined Lift Station Top Slab Custom w/Xypex - 12"	Slack: 0.998"	Sump: 96"	Step Position: 0°	0 lb						
1) Hole - 8"				0 lb						
1) PSX - 12-08 NYLO	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset	
346.82 Sq Ft) Carboline Bitumastic 300M [INT]										
488.26 Sq Ft) Carboline Bitumastic 300M [EXT]										
Invert 2					Structure Total:	65511 lb				
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

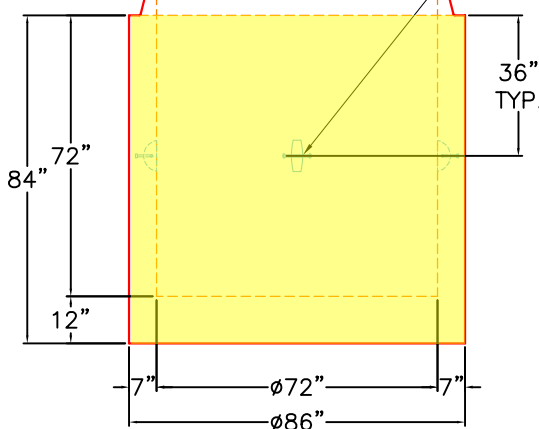


RIGHT-SIDE UP VIEW (int. dimensions)



TOP VIEW

4 EA. CONAC 6CA18 LIFTING ANCHORS REQUIRED.



FRONT VIEW

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

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 7"
Floor Height: 12"

Height (Int): 72"
Height (Ext): 84"

Weight (Net): 20973 lb
Volume (Net): 5.36cu.yd

Job Name: 26-1355 Sinking Creek Rd Sanitary Sewer Ext. Ph. 2
Job Location: London, KY
Contractor: Endesol, Inc.

Plant: Beaver Dam

Tech: S. Felletter

6/4/2026 10:56:33 AM

PC: E. Bradley



Structure ID: Lift Station

P1 MH072BAEVFX

MH BASE SQ EF Cust. Ht. 12"F (EF =102"SQ) w/ XYPEX

- P5) 36" x 36" - CASTING HEIGHT - 0"
P4) 72" - Combined Lift Station Top Slab Custom w/Xypex - 12"
P3) 72" - Combined Lift Station Walls/Floor w/XYPEX - 71"
P2) 72" - MH RISER w/XYPEX - 48.625"
P1) 72" - MH BASE SQ EF Cust. Ht. 12"F (EF =102"SQ) w/ XYPEX - 72"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) This Structure Includes a Cast-in Item
1) SECONDARY POUR - EXT. SLAB
1) SECONDARY POUR - WALLS FOR VAULT SECT.
1) SECONDARY POUR - VAULT EXTENSION
1) ASSEMBLY REQUIRED
1) HATCH (Alum.) - HALLIDAY W1R 34"x52"
1) HATCH (Alum.) - HALLIDAY W1R 36"x36"
1) 72" - DBL 1"x14.5' Butyl (2x)
1) 72" - Conseal CS-231 1.00" (Double)

0 lb
8108 lb
29399 lb
6931 lb
20973 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
46 lb
46 lb
0 lb
0 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W.
 - RISER/WALLS (As .18)
 - FLOOR #5 BARS AT 12" C.C.E.W.
- TOP AND BTM MAT

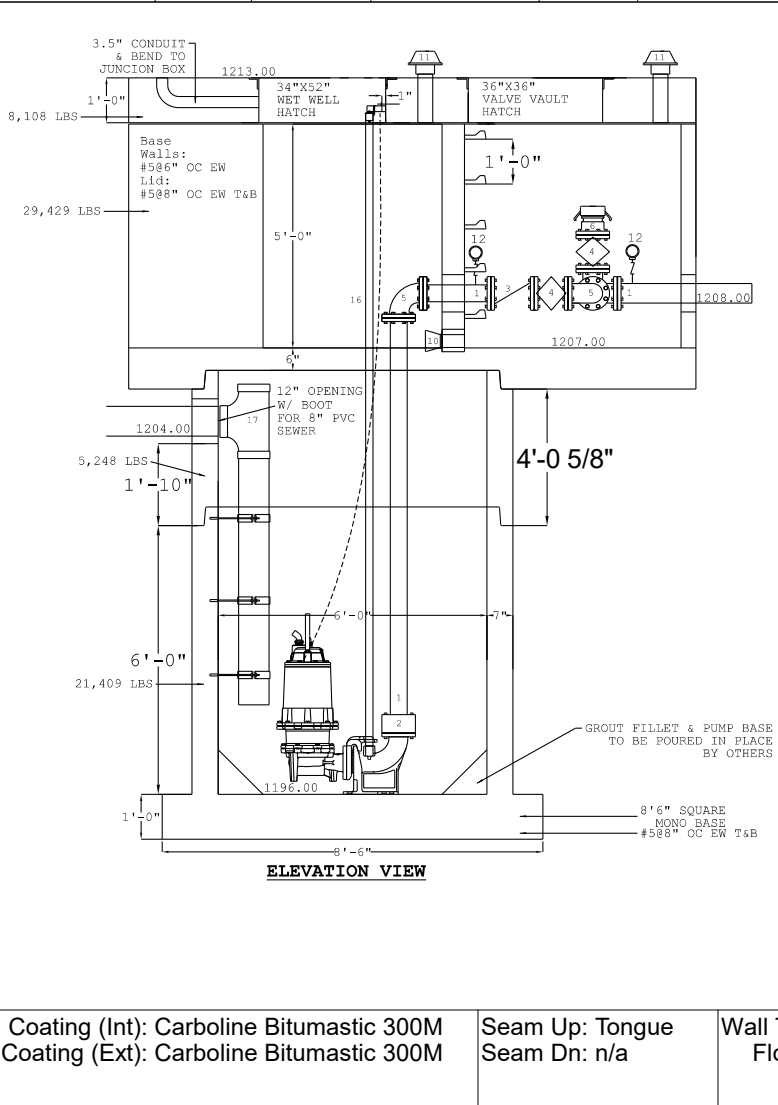
SECOND POUR DRAWING

FIRST POUR - 16,345 LBS.

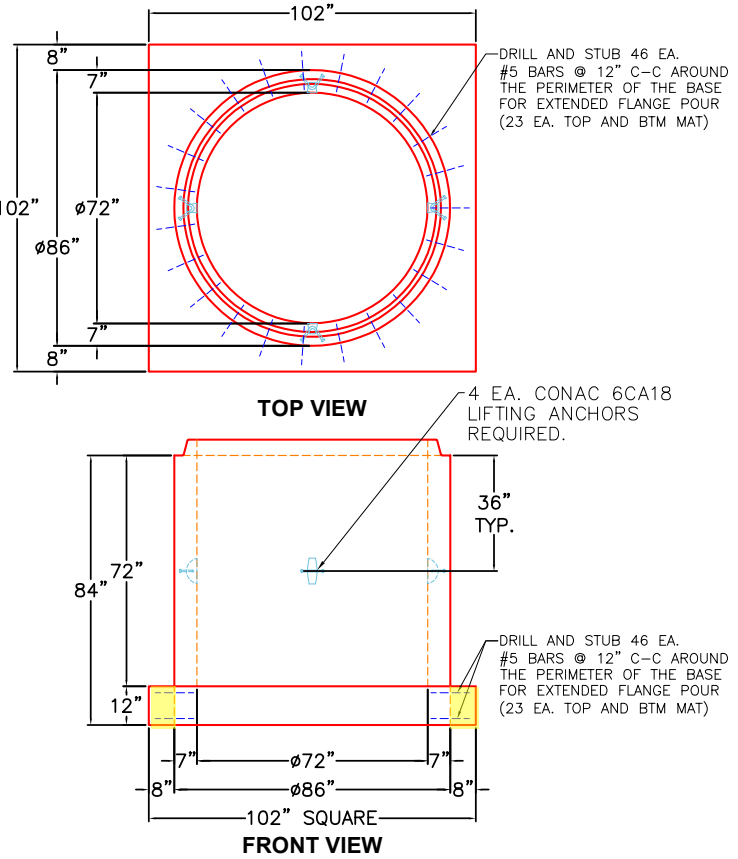
SECOND POUR - 4,628 LBS.

TOTAL - 20,973 LBS.

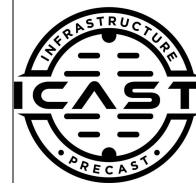
1) Rim 36" x 36" - Combined Lift Station Top Slab Custom w/Xypex - 12"	1) Hole - 8"	1) PSX - 12-08 NYLO	1) Angle	1) Ext. (cw)	1) Pipe	1) Pipe OD	1) Connector	1) Hole	1) Horz Size	1) Up (L)	1) Offset
346.82 SQ FT) Carboline Bitumastic 300M [INT]											
488.26 SQ FT) Carboline Bitumastic 300M [EXT]											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)



Coating (Int): Carboline Bitumastic 300M Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 7" Floor Height: 12"	Height (Int): 72" Height (Ext): 84"	Weight (Net): 20973 lb Volume (Net): 5.36cu.yd
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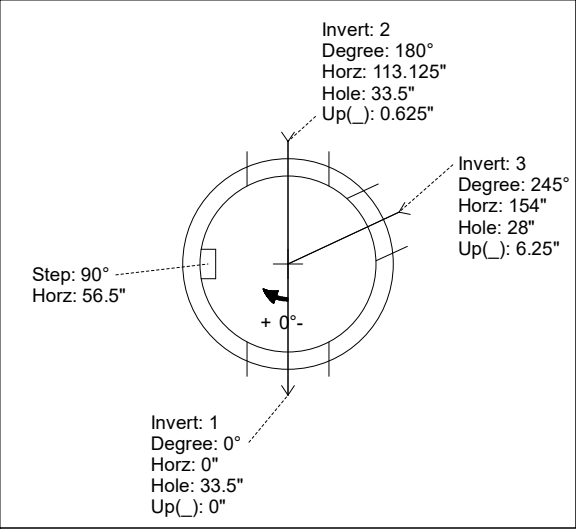


Weight (Net): 10101 lb
Volume (Net): 2.58cu.yd

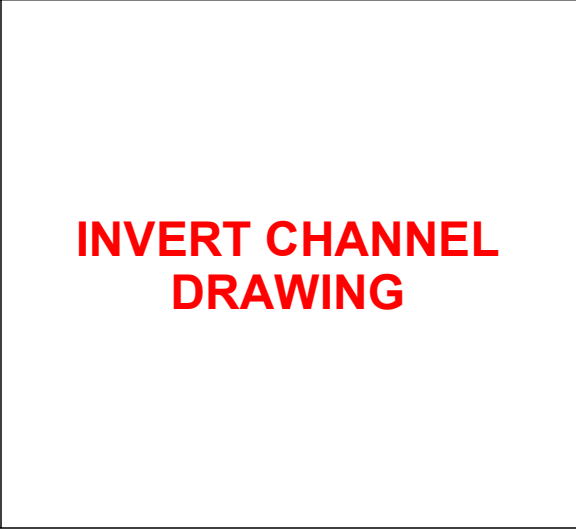


Weight (Net): 10101 lb
Volume (Net): 2.58cu.yd

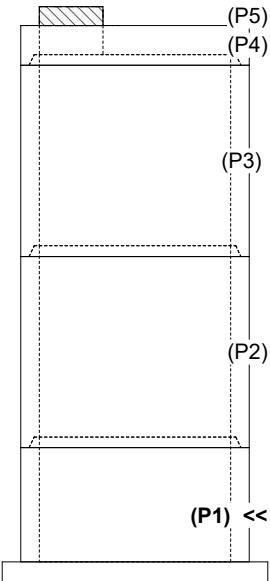
Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2					Plant: 100		Tech: J. Horsley			
Job Location: Danville, KY					6/7/2026 1:24:46 PM		PC: C. Goff			
Contractor: Hubert Excavating & Contracting										
Structure ID: MH A9										
P1 MH072BAEVF MH BASE w/FLANGE (08F/07EF) w/Coating T/n										
P5) 24" - CASTING HEIGHT - 7" P4) 72" - MH FLAT TOP SPECIAL F/G - 15" P3) 72" - MH RISER SPECIAL w/COATING T/G - 72" P2) 72" - MH RISER w/COATING T/G - 72" P1) 72" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 3) JOINT WRAP - 12" WD x 072" MAC WRAP 1) SECONDARY POUR - Extended Flange 3) 72" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 2) Kor-N-Seal2 - S206-28 15) MH Step ML-10-TDS-NCR - 10" 436.79 SqFt) Carboline Bitumastic 300M [EXT]					0 lb 5254 lb 10126 lb 10496 lb 10101 lb 0 lb 5422 lb 0 lb 0 lb 0 lb 0 lb 2 lb 13 lb 0 lb 0 lb Structure Total: 41414 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 90 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS 8. EXTERIOR DROP ASSEMBLY AT INVERTS 3 & 4 BY OTHERS - ICAST TO SUPPLY OPENINGS & BOOTS			
Rim: 906' Rim to Invert: 17.315' Slack: 0.995" Sump: 2.215" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.685'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	34.844"	0"	0"
Invert 2	888.735'	180°	135.125"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	34.844"	0.625"	0"
Invert 3	889.21'	245°	183.875"	24" PVC F679 (PS46)	24.803"	Kor-N-Seal2 S206-28	28"	28.759"	6.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



RIGHT-SIDE UP VIEW (int. dimensions)

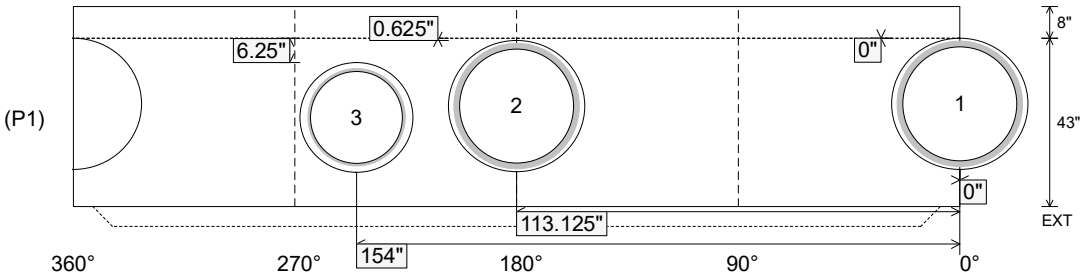


UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 7" Floor Height: 8"	Height (Int): 43" Height (Ext): 51"	Weight (Net): 10101 lb Volume (Net): 2.58cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A9

Note:

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

Job Name: 26-1230 - Wheelwright WWTP & LS Improvements
Job Location: Wheelwright, KY
Contractor: Endesol, Inc.

Plant: 100

5/6/2026 5:07:52 PM

Tech: Jared - F
PC: E. Bradley



Structure ID: WW Top

P1 MH072LD15S

MH FLAT TOP w/30"x48" Hatch F/G

- P2) 30" x 48" - HATCH (CAST FLUSH) - 3"
P1) 72" - MH FLAT TOP w/30"x48" Hatch F/G - 15"
1) JOINT WRAP - 12" WD x 072" MAC WRAP
1) 30" x 48" - Conseal CS-231 1.00" (Double)

Structure Total:

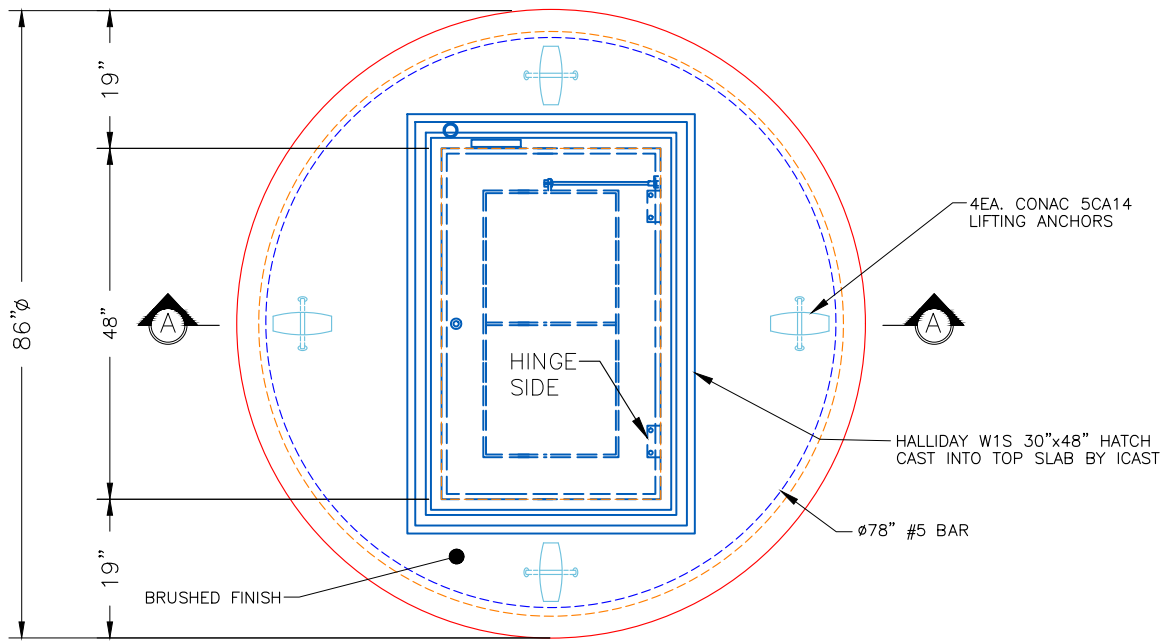
100 lb
4186 lb
0 lb
0 lb

4286 lb

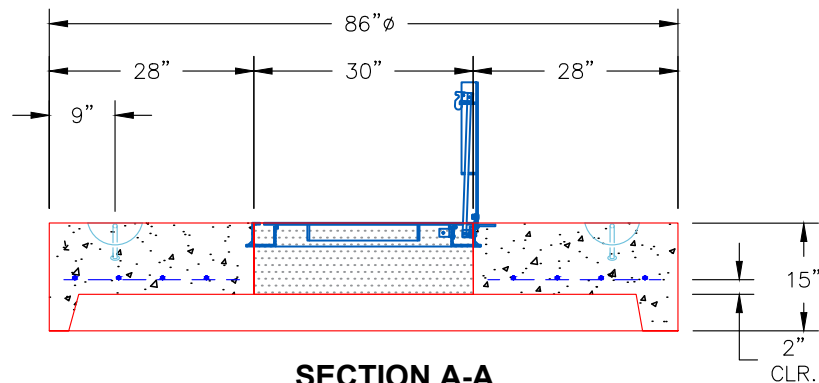
Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 30"x48").

REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W.



PLAN VIEW



SECTION A-A

NOTES:

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

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 7"

Height (Ext): 15"

Weight (Net): 4186 lb
Volume (Net): 1.07cu.yd

Job Name: 25-3062 Portland Bypass

Job Location: Portland, TN

Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam

6/1/2026 8:24:54 AM

Tech: J. Coppage

PC: C. Goff



Structure ID: MD-10

P2 MH084RS96

MH RISER

P5) 48" x 48" - CASTING HEIGHT - 0"

P4) 84" - MH FLAT TOP w/48"x48" Hole - 14.5"

P3) 84" - MH RISER - 48"

P2) 84" - MH RISER - 96"

P1) 84" - MH BASE Custom Ht - 93"

1) CASTING - JBS TYPE 39 TDOT GRATES (48" X 48")

3) 84" - Conseal CS-102 1.00"

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

2) Hole - 54

0 lb

6753 lb

9313 lb

18626 lb

20023 lb

459 lb

0 lb

0 lb

0 lb

Structure Total: 55174 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. JBS TDOT TYPE 39 BY ICAST

4. REINFORCING PER TDOT DRAWING D-CB-39RB

ASTM A615 (GRADE 60).

5. PRODUCTION TO PLACE A 4.5" DEEP X 2" WIDE

RECESS IN THE TOP INSIDE OF THE 0 DEGREE

AND THE 180 DEGREE WALL OF THE TOP SLAB.

Rim: 815.25'

Rim to Invert: 20.6'

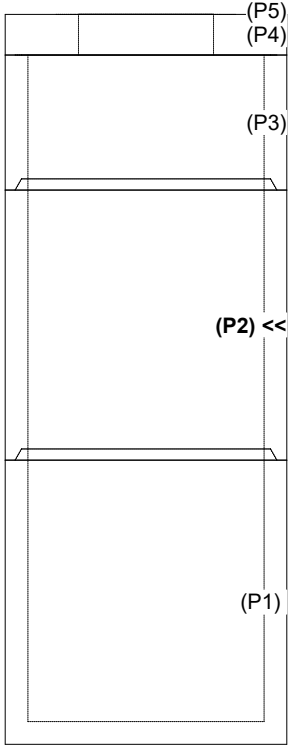
Slack: 0.2"

Sump: 4.5"

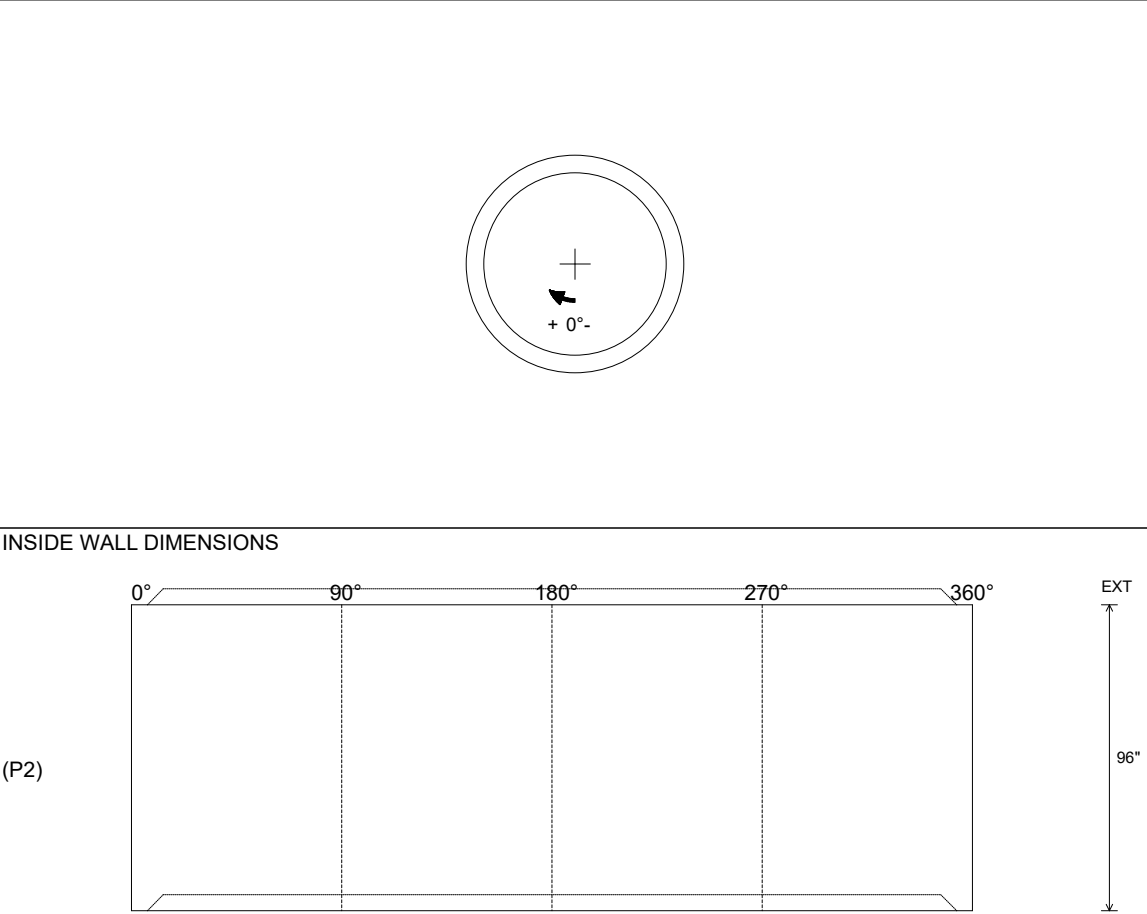
Step Position:

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

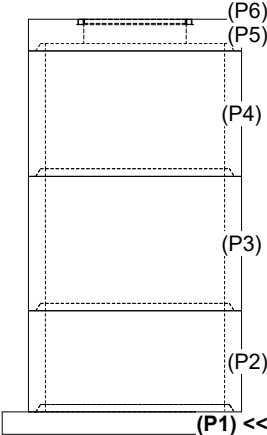
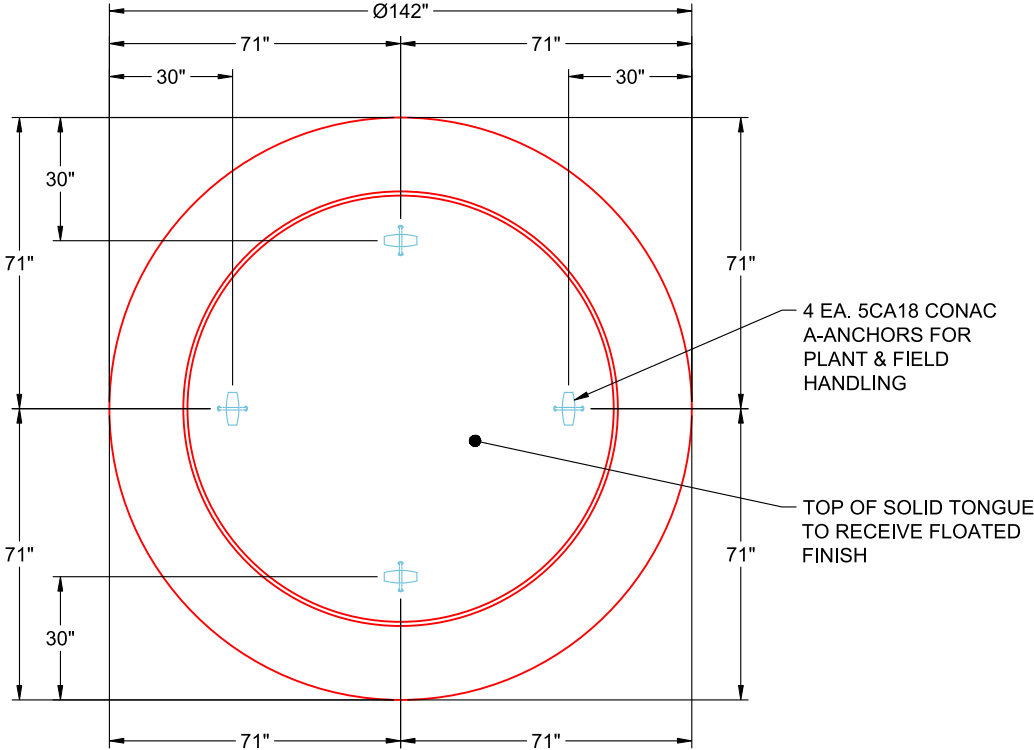
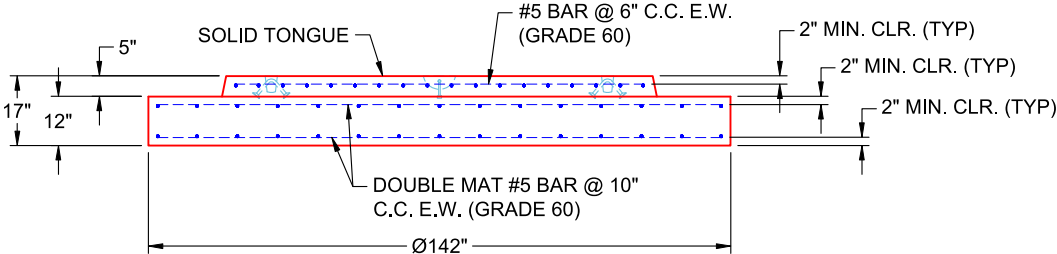
RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue	Wall Thickness: 8"	Height (Int): 96"	Weight (Net): 18626 lb
Coating (Ext):	Seam Dn: Groove	Floor Height: 0"	Height (Ext): 96"	Volume (Net): 4.76cu.yd

Job Name: 26-1038 - Perryville & Junction City WW Improvements Job Location: Danville, KY Contractor: Connhurst, LLC		Plant: 100 5/6/2026 4:05:51 PM	Tech: Jared - A PC: E. Bradley																							
Structure ID: 61038 (4)																										
P1 MH096SB12		MH SEPARATE BASE-T EXT. 14" (142" OD) T/n																								
P6) 42" x 55" - HATCH (CAST FLUSH) - 3" P5) 96" - MH FLAT TOP w/42"x55" Hatch F/G - 17" P4) 96" - MH RISER Custom Ht T/G - 67" P3) 96" - MH RISER T/G - 72" P2) 96" - MH RISER T/G - 54" P1) 96" - MH SEPARATE BASE-T EXT. 14" (142" OD) T/n - 12" 1) This Structure Includes a Cast-in Item - 42" x 55" Hatch (Supplied by Others) 4) JOINT WRAP - 12" WD x 096" MAC WRAP 4) 96" - Conseal CS-231 1.00" (Double) 3) PSX - 8QRS-S NYLO 1) PSX - 12-08 NYLO		<table><tr><td>0 lb</td><td>Structure Notes:</td></tr><tr><td>8820 lb</td><td>1. PER ASTM C-478 SPECIFICATIONS</td></tr><tr><td>16574 lb</td><td>2. CONCRETE: 4,500 PSI AT 28 DAYS</td></tr><tr><td>17851 lb</td><td>3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE</td></tr><tr><td>13452 lb</td><td>(TYP):</td></tr><tr><td>19580 lb</td><td>- SOLID TONGUE: #5 BAR @ 6" C.C. E.W. (GRADE 60)</td></tr><tr><td>0 lb</td><td>- MAT: DOUBLE MAT #5 BAR @ 10" C.C. E.W. (GRADE 60)</td></tr><tr><td>0 lb</td><td>4. LIFTERS: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN</td></tr><tr><td>20 lb</td><td>5. TOP OF SOLID TONGUE TO RECEIVE FLOATED FINISH</td></tr><tr><td>8 lb</td><td></td></tr><tr><td>Structure Total: 76305 lb</td><td></td></tr></table>			0 lb	Structure Notes:	8820 lb	1. PER ASTM C-478 SPECIFICATIONS	16574 lb	2. CONCRETE: 4,500 PSI AT 28 DAYS	17851 lb	3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE	13452 lb	(TYP):	19580 lb	- SOLID TONGUE: #5 BAR @ 6" C.C. E.W. (GRADE 60)	0 lb	- MAT: DOUBLE MAT #5 BAR @ 10" C.C. E.W. (GRADE 60)	0 lb	4. LIFTERS: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN	20 lb	5. TOP OF SOLID TONGUE TO RECEIVE FLOATED FINISH	8 lb		Structure Total: 76305 lb	
0 lb	Structure Notes:																									
8820 lb	1. PER ASTM C-478 SPECIFICATIONS																									
16574 lb	2. CONCRETE: 4,500 PSI AT 28 DAYS																									
17851 lb	3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE																									
13452 lb	(TYP):																									
19580 lb	- SOLID TONGUE: #5 BAR @ 6" C.C. E.W. (GRADE 60)																									
0 lb	- MAT: DOUBLE MAT #5 BAR @ 10" C.C. E.W. (GRADE 60)																									
0 lb	4. LIFTERS: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN																									
20 lb	5. TOP OF SOLID TONGUE TO RECEIVE FLOATED FINISH																									
8 lb																										
Structure Total: 76305 lb																										
Rim: 963.5' Rim to Invert: 10.85' Slack: 0" Sump: 74.8" Step Position:																										
		 PLAN VIEW (RIGHT SIDE UP)																								
		 FRONT VIEW (RIGHT SIDE UP)																								
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 9" Floor Height: 12"	Height (Int): 0" Height (Ext): 0"	Weight (Net): 19580 lb Volume (Net): 5cu.yd																						

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

Plant: 100
5/29/2026 8:41:16 AM

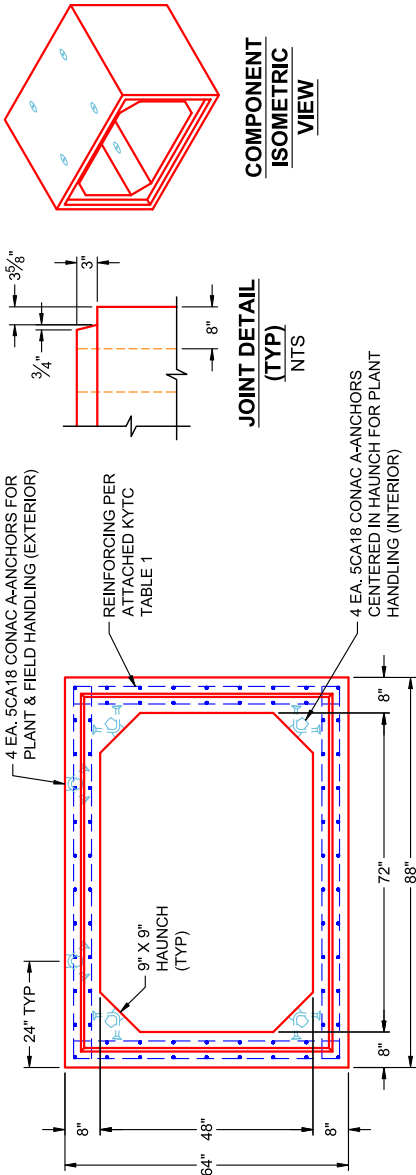
Tech: Jared - A
PC: A. Chambers



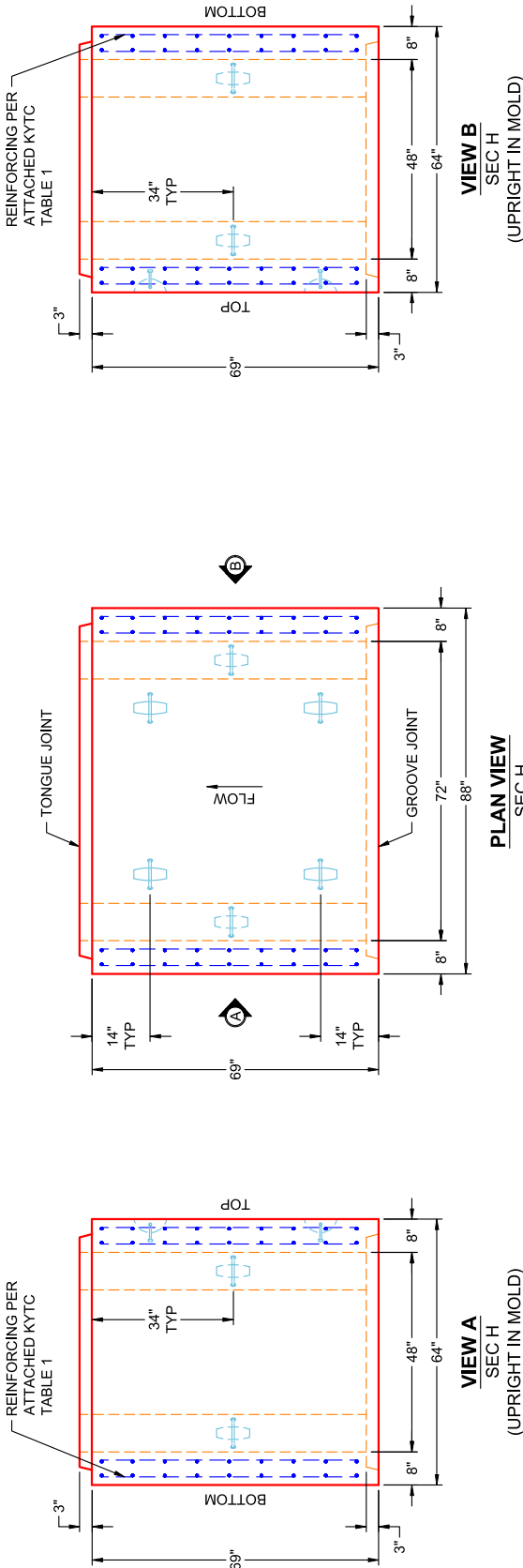
Structure ID: BC 6 x 4 (Sec H)

P1 BC048072-08WLF-9H

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



END VIEW
TYPICAL



- 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

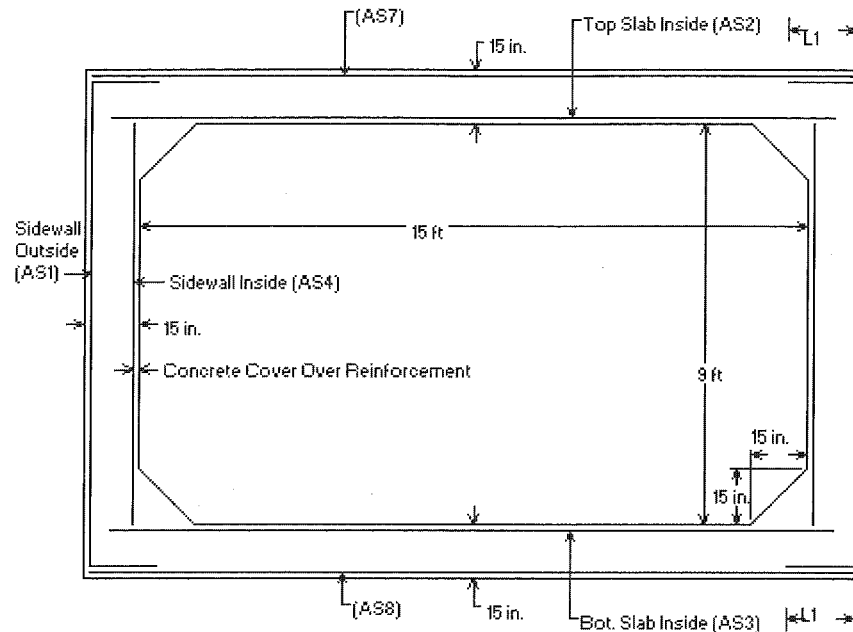


- QUALITY CONTROL CHECKLIST**
- ☐ ALL DIMENSIONS CORRECT.
 - ☐ LIFTERS INSTALLED INSIDE.
 - ☐ RECESS WITH HAUNCHES CORRECT.
 - ☐ REINFORCING CORRECT.
 - ☐ SURFACE QUALITY ACCEPTABLE.
 - ☐ LIFTERS INSTALLED OUTSIDE.
 - ☐ PRODUCT SQUARE.

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 H)
ORDER NO: 25-2898
PE: J.H. ROSS
DRAWING: K. CARDWELL
DATE: 05/29/26
SCALE: NTS
PG. 1 OF 1

THIS DRAWING IS THE PROPERTY OF INFRASTRUCTURE PRECAST, INC. ANY USE OR DUPLICATION OF THIS DRAWING WITHOUT PRIOR AUTHORIZATION IS STRICTLY PROHIBITED.



- * <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

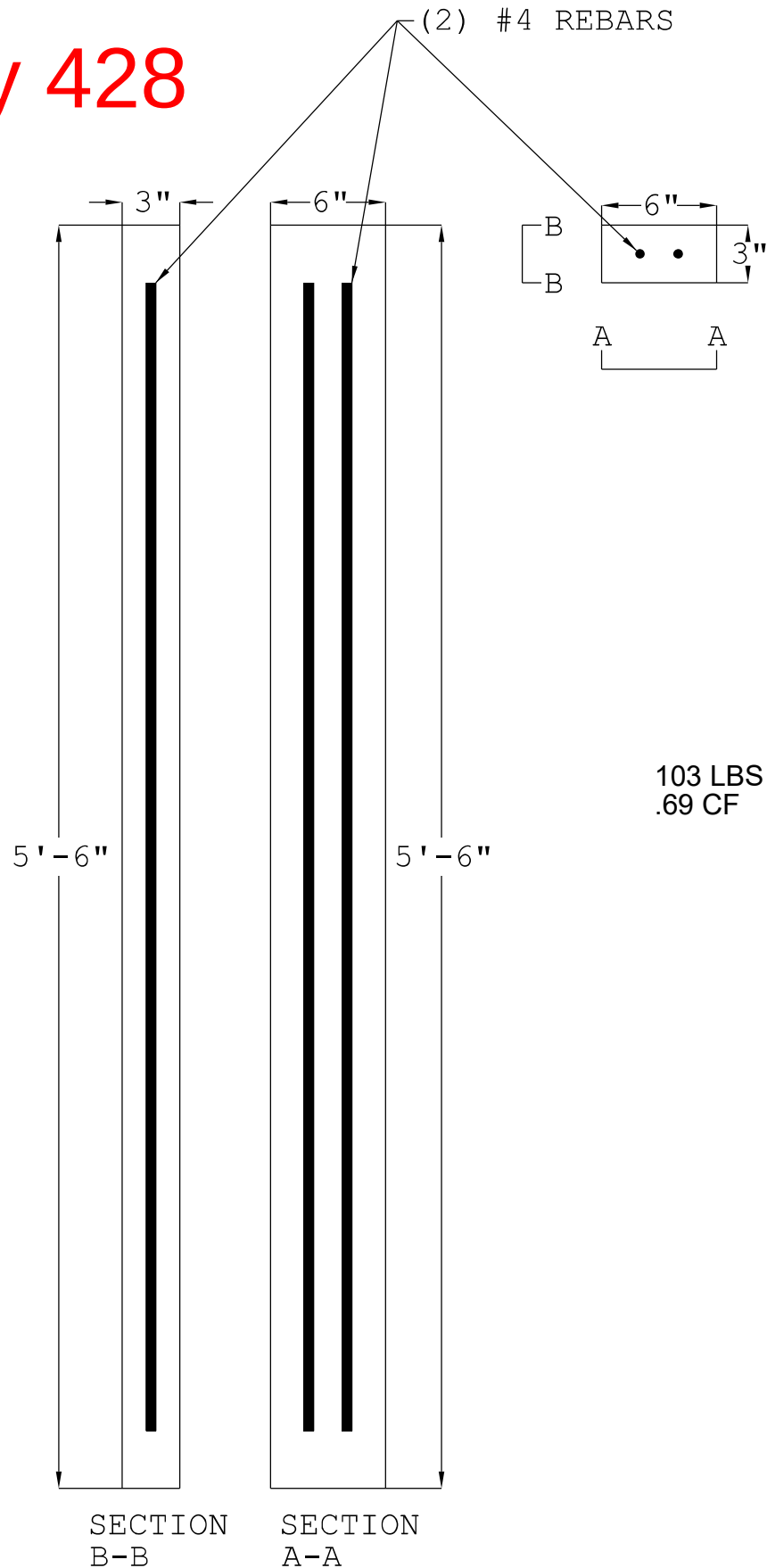
Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x4x7	0<2*	0.202	0.421	0.266	0.168	0.192	0.168	0.192	0.192
	2<3	0.251	0.368	0.288	0.168	0.168	0.168		
	3-5	0.19	0.271	0.24	0.168	0.168	0.168		
	10	0.168	0.228	0.234	0.168	0.168	0.168		
	15	0.216	0.306	0.313	0.168	0.168	0.168		
	20	0.275	0.391	0.398	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"									

ALCOA CONCRETE LOGS

Quantity 428



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

Plant: Beaver Dam
6/1/2026 8:23:24 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: MD-13

P1 BX4848-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

P2) 48" x 48" - CASTING HEIGHT - 0"
P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht - 38"
1) CASTING - JBS TYPE 39 TDOT GRATES (48" X 48")
1) Hole - 26

Structure Total: 8566 lb

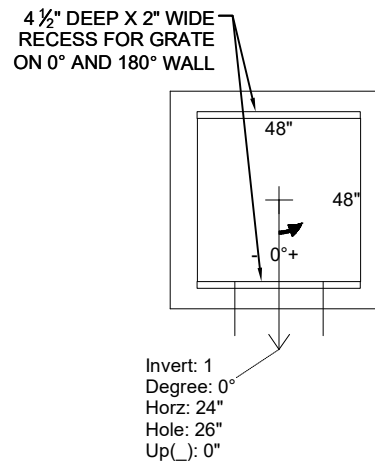
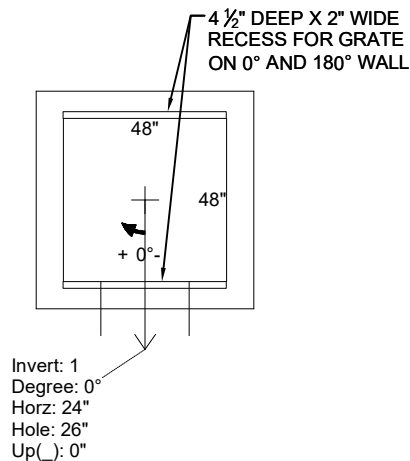
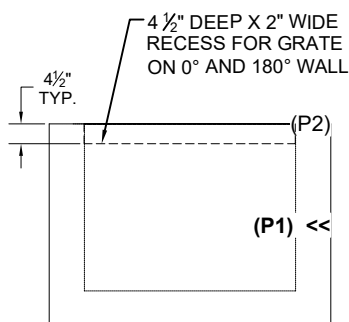
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. JBS TDOT TYPE 39 BY ICAST
4. REINFORCING PER TDOT DRAWING D-CB-39S
ASTM A615 (GRADE 60).
5. PRODUCTION TO PLACE A 4.5" DEEP X 2" WIDE
RECESS IN THE TOP INSIDE OF THE 0 DEGREE
AND THE 180 DEGREE WALL OF THE BASE.

Rim: 763.57' Rim to Invert: 2.99' Slack: 0.38" Sump: 2.5" Step Position:

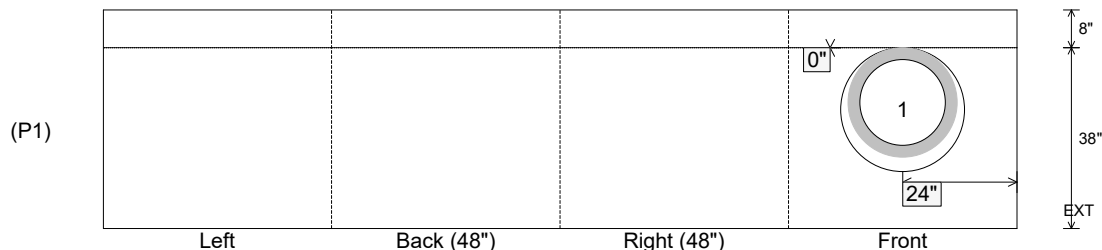
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	760.58'	0°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 38"
Height (Ext): 46"

Weight (Net): 8107 lb
Volume (Net): 2.07cu.yd

Job Name: 26-1545 - KYTC Boone Co. Camp Ernst Roundabout (ID 3002312)

Job Location: Burlington, KY

Contractor: Lawrence Construction & Leasing, Inc.

Plant: 100

6/2/2026 8:13:31 AM

Tech: J.Horsley

PC: J. Jarvis

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: D6-6 DBI13G

P1 BX24300808VF

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

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

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

P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht F/n - 25"

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

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

1) Hole - 18

2) Hole - 4

0 lb

963 lb

3397 lb

237 lb

0 lb

0 lb

0 lb

Structure Total: 4597 lb

Structure Notes:

KYTC STATE PROJECT

1. KYTC DBI TYPE 13G / ASTM C-913 SPEC'S.

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

3. CASTING BY ICAST (HOE KY-230-G F/G)

.

REINFORCING PER ASTM A615 (GRADE 60).

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

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

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

Rim: 885.63'

Rim to Invert: 3.48'

Slack: 0.76"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	882.15'	180°	20"	12" HDPE	14.5"	Hole 18	18"	18"	-3"	0"
Invert 2	883.57'	90°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	17"	0"
Invert 3	883.57'	270°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	17"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

Invert: 1
Degree: 180°
Horz: 12"
Hole: 18"
Up(): -3"

Invert: 2
Degree: 90°
Horz: 15"
Hole: 4"
Up(): 17"

Invert: 3
Degree: 270°
Horz: 15"
Hole: 4"
Up(): 17"

24"

30"

+ 0°-

Invert: 1
Degree: 180°
Horz: 12"
Hole: 18"
Up(): -3"

Invert: 3
Degree: 270°
Horz: 15"
Hole: 4"
Up(): 17"

Invert: 2
Degree: 90°
Horz: 15"
Hole: 4"
Up(): 17"

24"

30"

- 0°+

INSIDE WALL DIMENSIONS

1

2

3

17"

15"

12"

17"

15"

12"

3"

25"

8"

Left

Back (24")

Right (30")

Front

EXT

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): 3397 lb

Volume (Net): 0.87cu.yd

Job Name: 26-1545 - KYTC Boone Co. Camp Ernst Roundabout (ID 3002312)
Job Location: Burlington, KY
Contractor: Lawrence Construction & Leasing, Inc.

BO: J. Jarvis
TECH: J.Horsley
Plant: 100



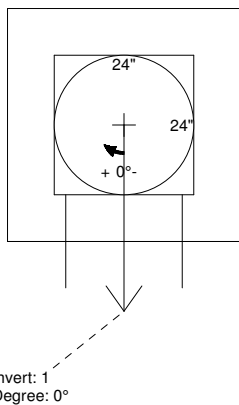
Structure ID: D3-7 DBI14	Rim: 887.78'	Sump: 0"	Floor (Bot): 883.073'
Spec: KYTC	Invert: 883.74'	Floor (Top): 883.74'	Overall Height: 4.667'
Type: DBI TYPE 14	Rim to Invert: 4.04'	Floor Height: 8"	Slack: 0.48"
Size: 24" x 24"			

Structure Notes: .
** KYTC STATE PROJECT**
1. KYTC DBI TYPE 14 / ASTM C913 SPECIFICATIONS
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. DBI-14 F/G CAST INTO TOP SLAB (HOE KY-210 F/G).
.
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .31) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

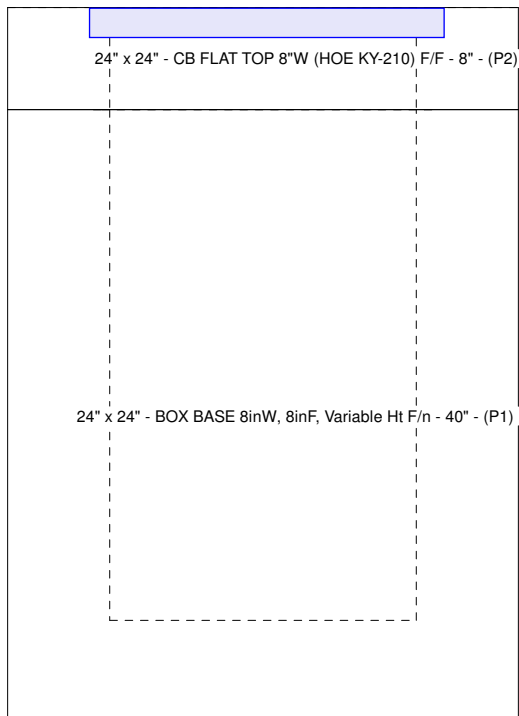
STRUCTURE SUMMARY:

P2) 24" x 24" - CB FLAT TOP 8"W (HOE KY-210) F/F - 8"	770 lb
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 40"	4300 lb
1) CASTING - HOE KY-210 F/G (DBI 14)	178 lb
1) 24" x 24" - Conseal CS-102 1.00"	0 lb
1) Hole - 20	0 lb

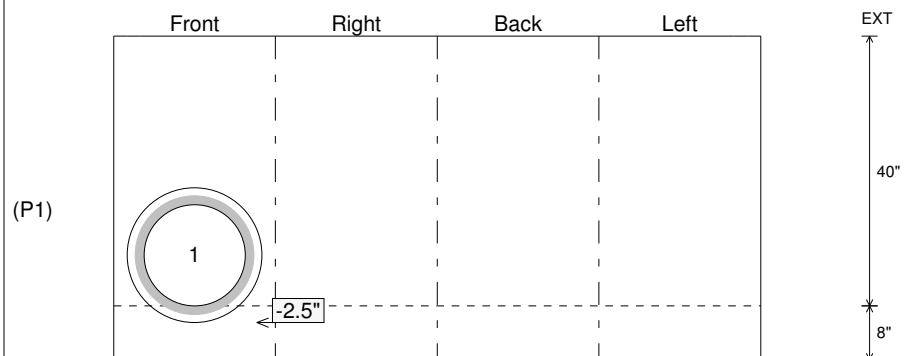
Structure Total:	5249 lb



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up ()	Ref
Rim	887.78'							
Reducer								
Invert 1	883.74'	0°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 2								
Invert 3								
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								



Cast (Int. Dim.) - Interior Dimensions



Submittal Drawing
5/19/2026 9:20:52 PM

SUBMITTAL
APPROVED BY:

Job Name: 26-1545 - KYTC Boone Co. Camp Ernst Roundabout (ID 3002312)
Job Location: Burlington, KY
Contractor: Lawrence Construction & Leasing, Inc.

PC: J. Jarvis
TECH: J. Horsley
Plant: 100



Structure ID: **D1-5 CBIB**

Spec: KYTC

Type: CBI TYPE B (10')

Size: 24" x 24"

Rim: 887.27'

Invert: 882.69'

Rim to Invert: 4.58'

Sump: 0"

Floor (Top): 882.69'

Floor Height: 8"

Floor (Bot): 882.023'

Overall Height: 5.167'

Slack: 0.96"

Structure Notes:

** KYTC STATE PROJECT **

1. PER KYTC CBI TYPE B / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE KY-345 F/G)

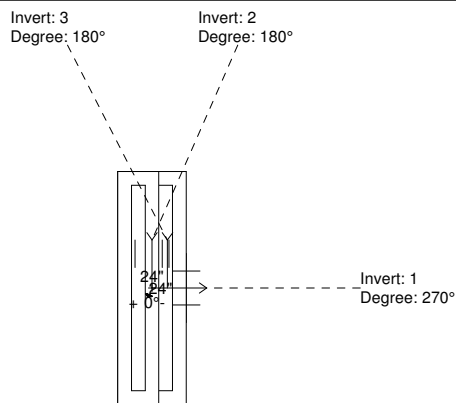
REINFORCING PER ASTM A615 (GRADE 60).
- TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .31) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

STRUCTURE SUMMARY:

- P3) 8" x 120" - CB INLET KY B 10' TOP F/G - 9"
P2) 24" x 120" - CB INLET KY B 10' BOTTOM LEFT T/G - 17"
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht T/n - 28"
1) CASTING - HOE KY-345 SET (CBI B)
1) 24" x 24" - Con seal CS-102 1.00"
2) Hole - 20
1) Hole - 6

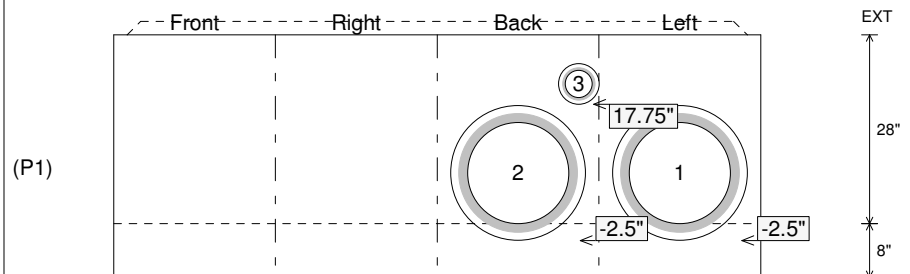
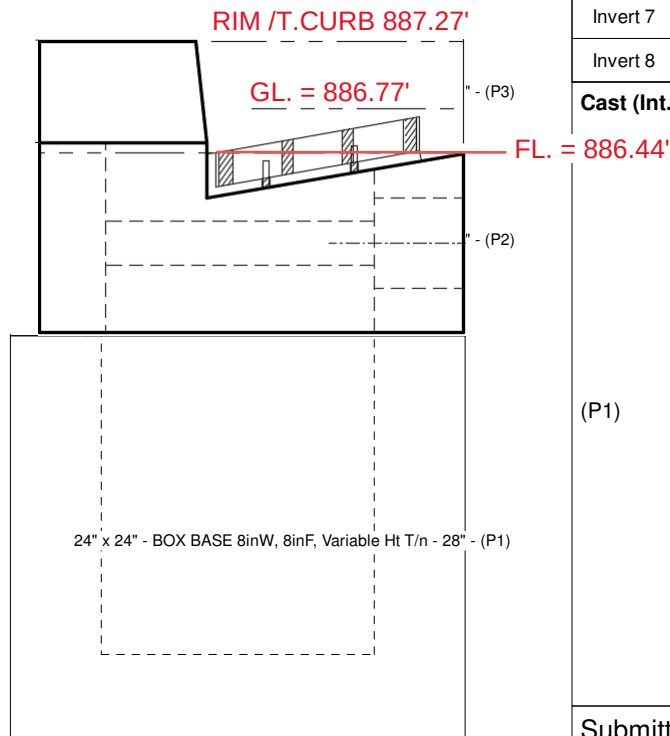
1660 lb
2650 lb
3044 lb
290 lb
0 lb
0 lb
0 lb

Structure Total: 7644 lb



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up (L)	Ref
Rim	887.27'							
Reducer								
Invert 1	882.69'	270°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 2	882.69'	180°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 3	884.25'	180°	4" HDPE (perf pipe)	4.8"	6"	Hole 6	17.75"	P1
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								

Cast (Int. Dim.) - Interior Dimensions



Submittal Drawing
5/19/2026 9:20:51 PM

SUBMITTAL
APPROVED BY:



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

FRONT ELEVATION



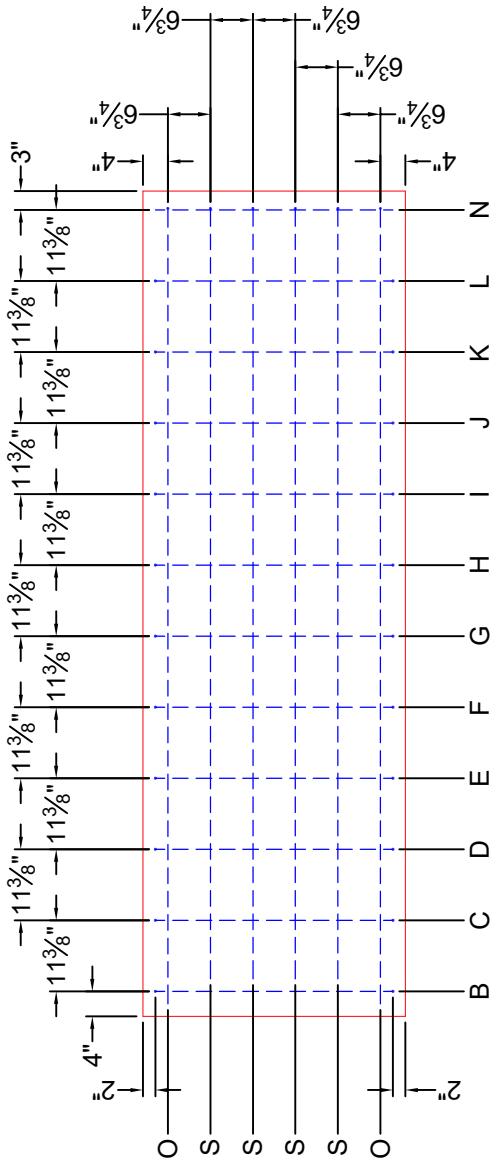
Structure ID: KIRBY-4 12+50.00

P1 HWTDOT4-1TU24

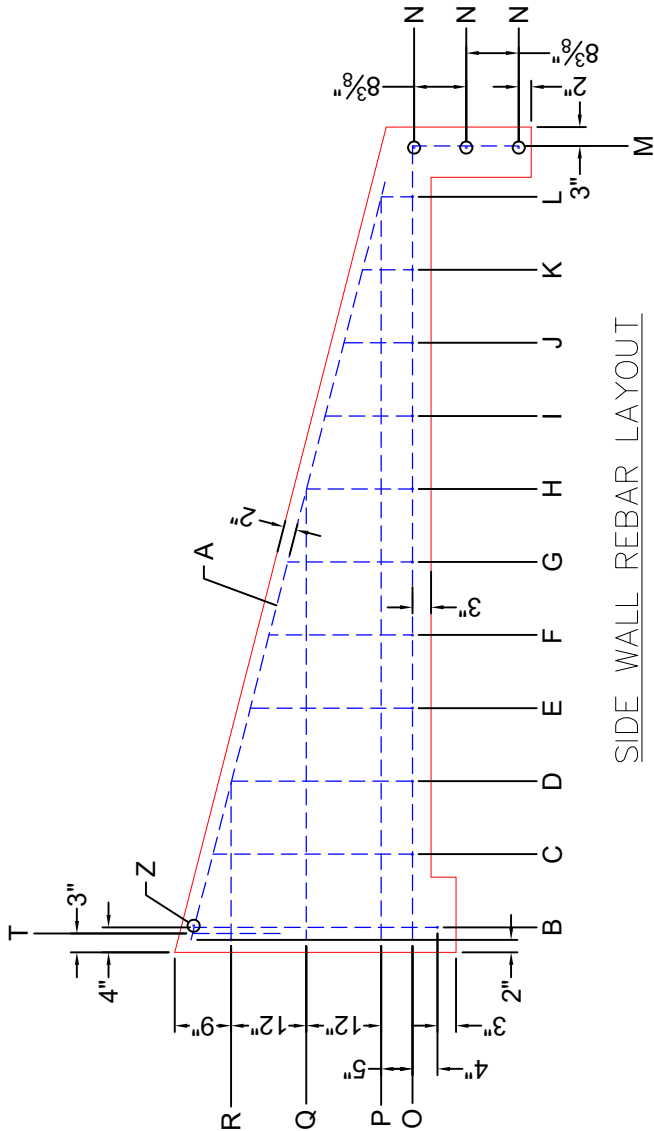
24" - HW TDOT 4:1 Type U Cross Drain Endwall

GENERAL NOTES:

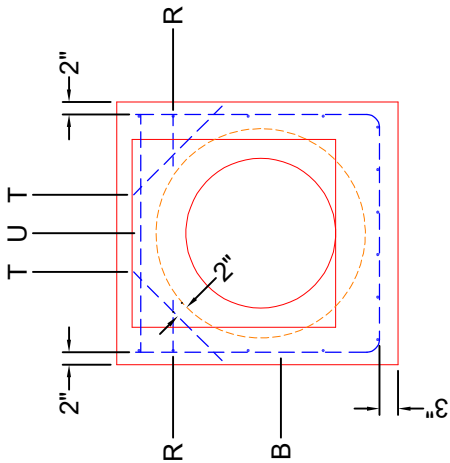
- 1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
- 2. CONCRETE: 5,000 PSI AT 28 DAYS.
- 3. REINFORCING: SEE SHEETS 2 AND 3 FOR REINFORCEMENT INFORMATION. (GRADE 60) REFERENCE TDOT DWG D-PE-24B.
- 4. WEIGHT: 6,470 LBS



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 12:50:55 PM

Tech: J. Coppage
PC: C. Goff

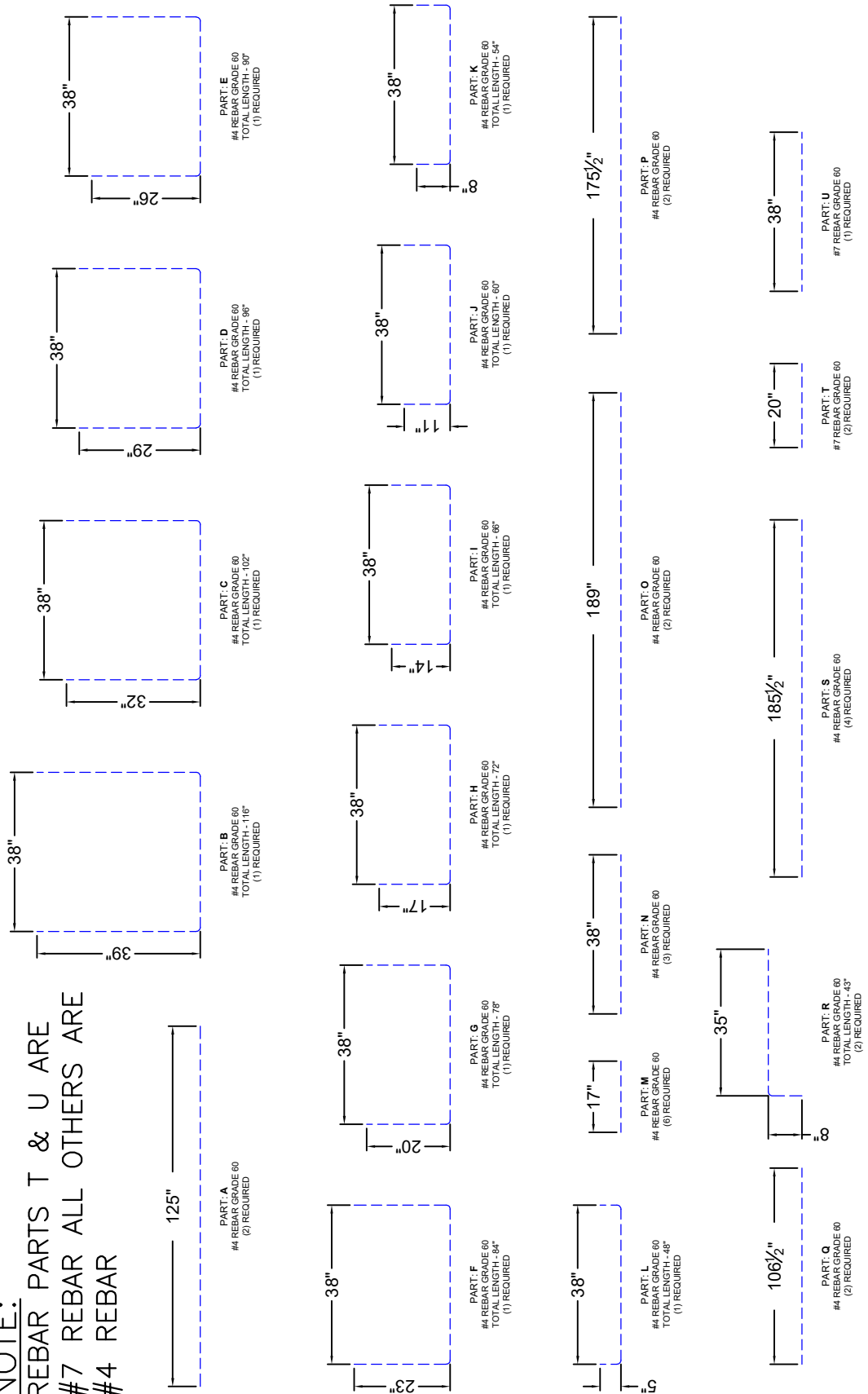


Structure ID: KIRBY-4 12+50.00

P1 HWTDOT4-1TU24

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

NOTE:
REBAR PARTS T & U ARE
#7 REBAR ALL OTHERS ARE
#4 REBAR





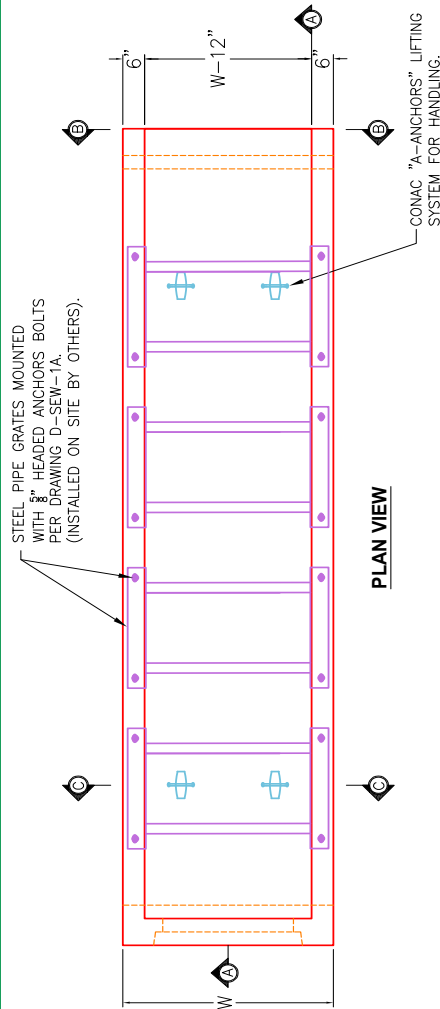
Structure ID: S4-5 HW

P1 HWTDOT6-1SA18

18" - HW TDOT 6:1 Type Safety Side Drain Endwall F/F

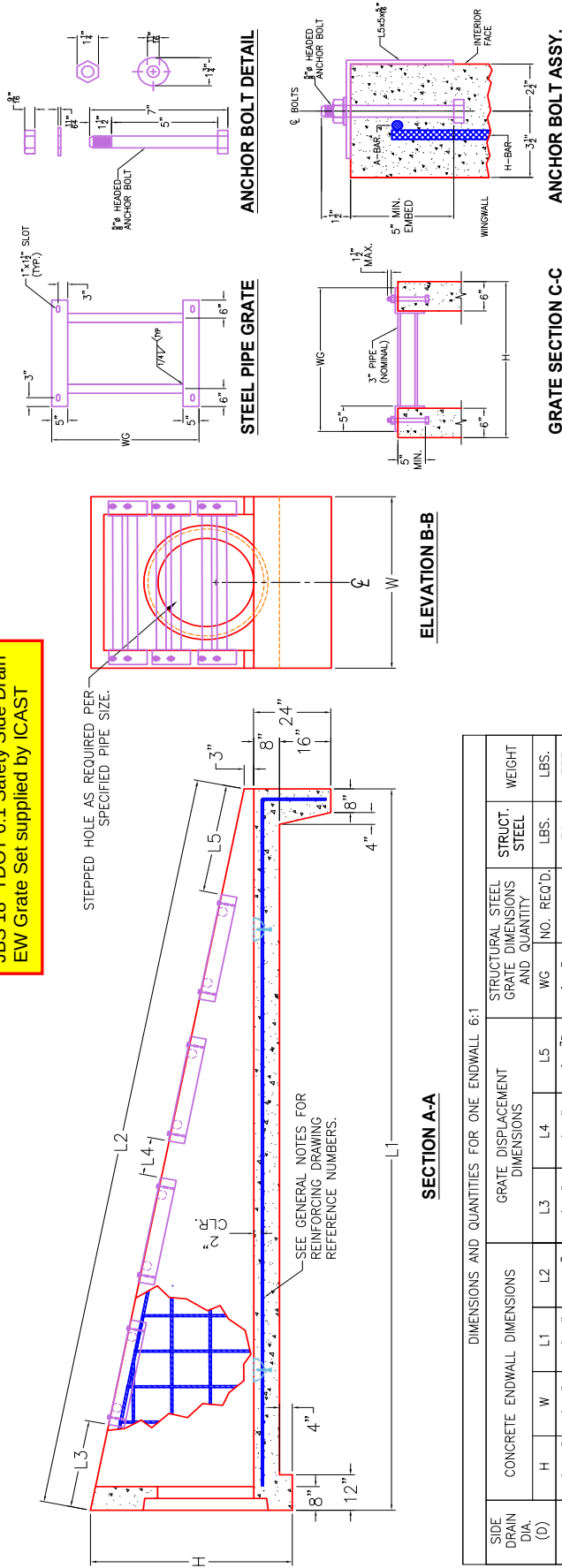
GENERAL NOTES

1. DRAWING TO BE USED FOR ALL 15" THROUGH 48" SIDE DRAIN CONCRETE ENDWALLS.
2. MANUFACTURING, FOR CROSS DRAINS ONLY.
3. CONCRETE: $F_c = 4,500$ PSI @ 28 DAYS.
4. 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.
5. SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
6. APPROPRIATE SIZING AND LOCATIONS OF THE LIFTING INSERTS WILL BE THE RESPONSIBILITY OF INFRASTRUCTURE PRECAST, INC.
7. LIFTING INSERT POCKETS SHALL BE GROUTED ON SITE BY THE CONTRACTOR AFTER THE ENDWALL IS SET AS PER TDOT REQUIREMENTS.
8. DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 5-3.
9. 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°.



PLAN VIEW

NOTE:
JBS 18" TDOT 6:1 Safety Side Drain
EW Grate Set supplied by ICAST



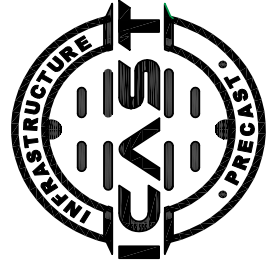
SECTION A-A

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 6:1

SIDE DRAIN DIA. (D)	CONCRETE ENDWALL DIMENSIONS			GRATE DISPLACEMENT DIMENSIONS			STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY		WEIGHT LBS.
	H	W	L1	L2	L3	L4	WG	NO. REQ'D	
15"	2'-11"	2'-8"	11'-2"	11'-3"	2'-2"	1'-0"	2'-18"	2	172
18"	3'-2"	2'-11"	12'-8"	12'-10"	10"	1'-0"	2'-8"	3	269
24"	3'-9"	3'-6"	16'-2"	16'-4"	2'-2"	1'-0"	3'-28"	3	296
30"	4'-5"	4'-1"	20'-2"	20'-6"	2'-2"	1'-0"	3'-38"	4	694
36"	5'-0"	4'-8"	23'-8"	23'-11"	2'-2"	1'-0"	2'-9"	5	975
42"	5'-6"	5'-3"	26'-8"	27'-0"	2'-2"	1'-0"	1'-10"	6	1,300
48"	6'-1"	5'-10"	30'-2"	30'-7"	2'-2"	1'-0"	1'-5"	7	1,669

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 12:1

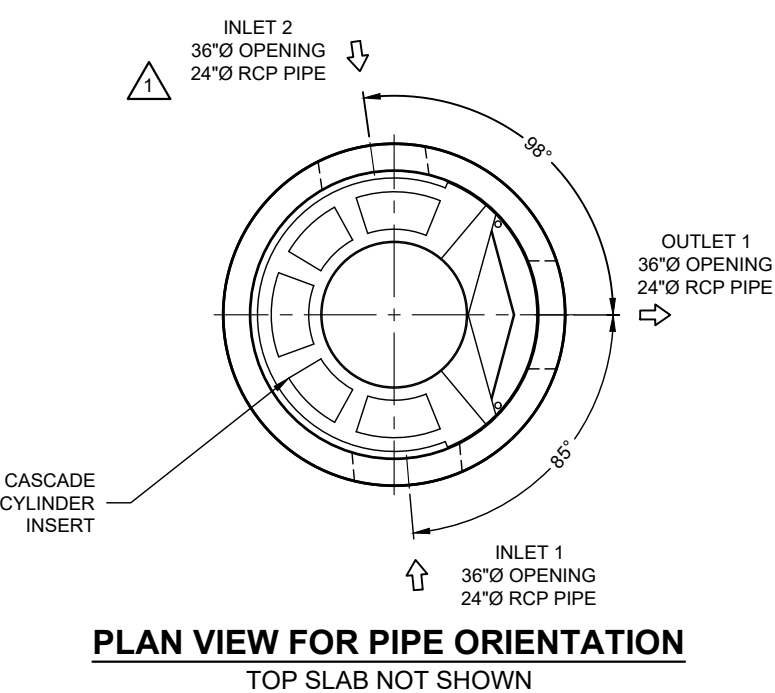
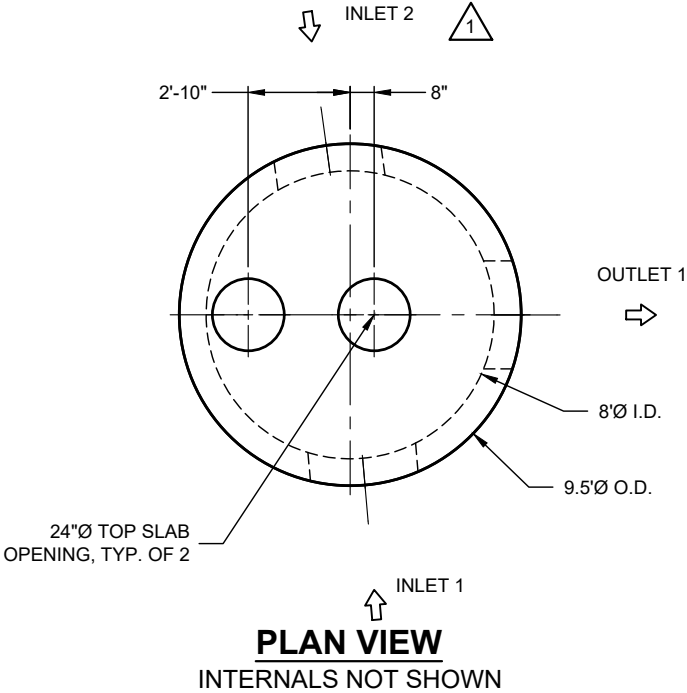
PIPE CULV DIA.	CONCRETE ENDWALL DIMENSIONS			STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY			STEEL BAR REINFORC.		WEIGHT LBS.
	H	W	L1	L2	L3	L4	WG	NO. REQ'D	
18"	3'-11"	3'-1"	26'-0"	24'-1"	2'-1"	3'-0"	2'-10"	5	480
									256
									11,119



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

TDOT TYPE "SAFETY" SIDE DRAIN ENDWALL WITH STEEL PIPE GRATES FOR 15" THROUGH 48" PIPES (6:1 & 12:1 SLOPES)
DRAWING NO.: ET-TDOT-200 DATE: 10-02-25
REVIEWED BY: J.H. ROSS, PE
WEB: WWW.ICASTINC.COM
SCALE: NTS

26-2435 838635 Bridge Park Block J



MATERIAL LIST

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-8 CYLINDER INSERT, STD.	325-003952	CONTECH	PRECASTER
6	CS-8 ALUMINUM INSTALLATION BRACKETS	325-003971	CONTECH	PRECASTER
1	CS-8 HARDWARE KIT	325-003970	CONTECH	PRECASTER
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
2	24"Ø X 4" FRAME AND COVER, EJ #41600389, OR EQUIV.	325-000350	CONTECH	CONTRACTOR

GENERAL NOTES

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

INSTALLATION NOTES

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

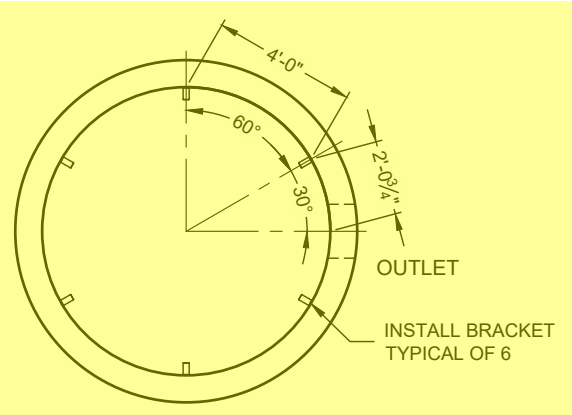
SITE INFORMATION

RIM ELEV. = 841.96+/-
TOP OF STRUCTURE = 841.54
INLET PIPE 1 INVERT ELEV. = 835.36
INLET PIPE 1 DIAMETER AND MATERIAL = 24"Ø RCP
INLET PIPE 2 INVERT ELEV. = 834.46
INLET PIPE 2 DIAMETER AND MATERIAL = 24"Ø RCP
OUTLET PIPE INVERT ELEV. = 833.96
OUTLET PIPE DIAMETER AND MATERIAL = 24"Ø RCP
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 826.04

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 24000 LBS.
STRUCTURE IS DELIVERED IN 4 PIECES

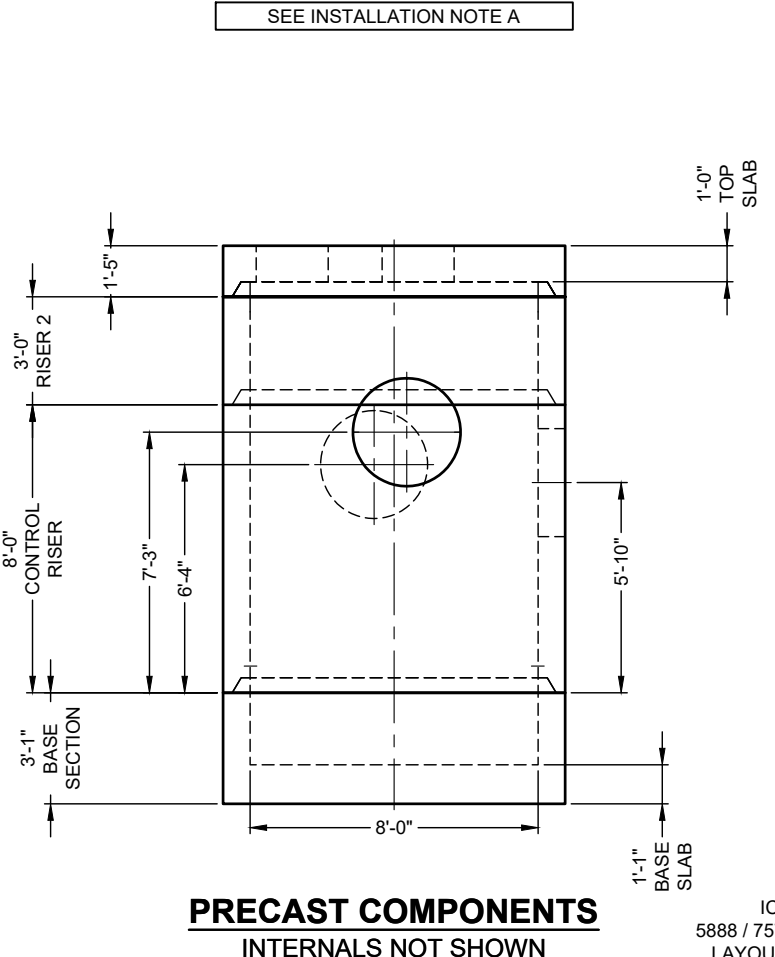
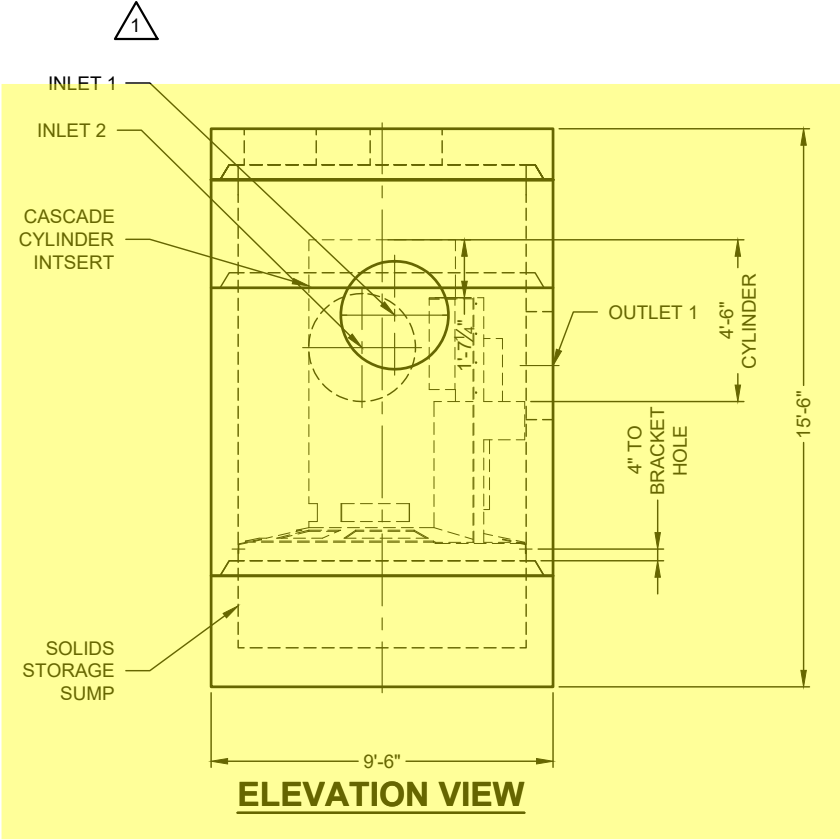
TOP SLAB = 11000 LBS.
RISER 2 = 9500 LBS.
CONTROL RISER = 24000 LBS.
BASE SECTION = 19000 LBS.



CONTECH
FABRICATION
DRAWING

SUPPORT BRACKET LAYOUT PLAN VIEW

20-CS-8
ICAST to fully pre-assemble internal materials prior to shipment



ICAST
5888 / 757440
LAYOUT 1A
30.16TS

SEE INSTALLATION NOTE A

CS-8 - 838635-20
BRIDGE PARK BLOCK J
DUBLIN, OH
SITE DESIGNATION: 101

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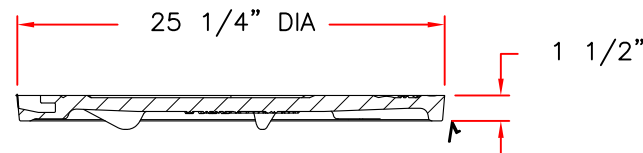
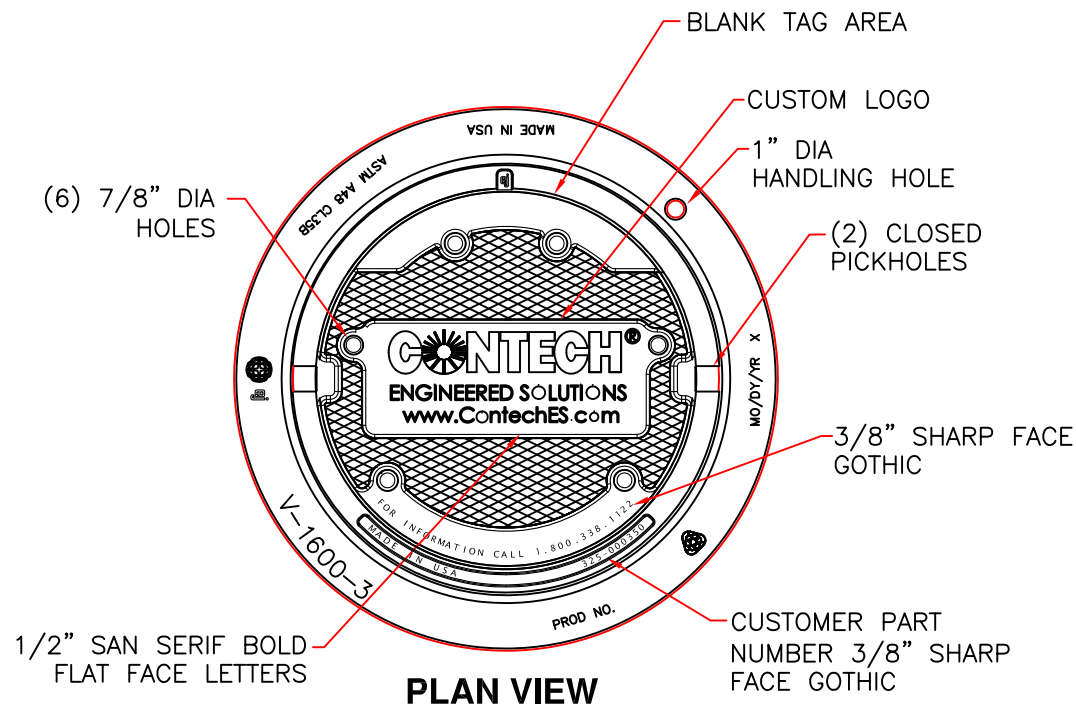
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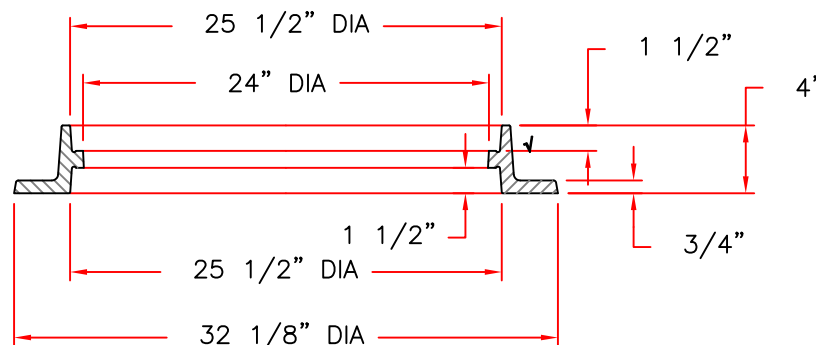
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26-2435 838635 Bridge Park Block J

V1600-3 V1610-3 Assembly



COVER SECTION



RING SECTION

Product Number

41600389

Design Features

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

-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

Certification

-
-ASTM A48
-
-Country of Origin: USA

Major Components

41600310
41600374

Drawing Revision

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

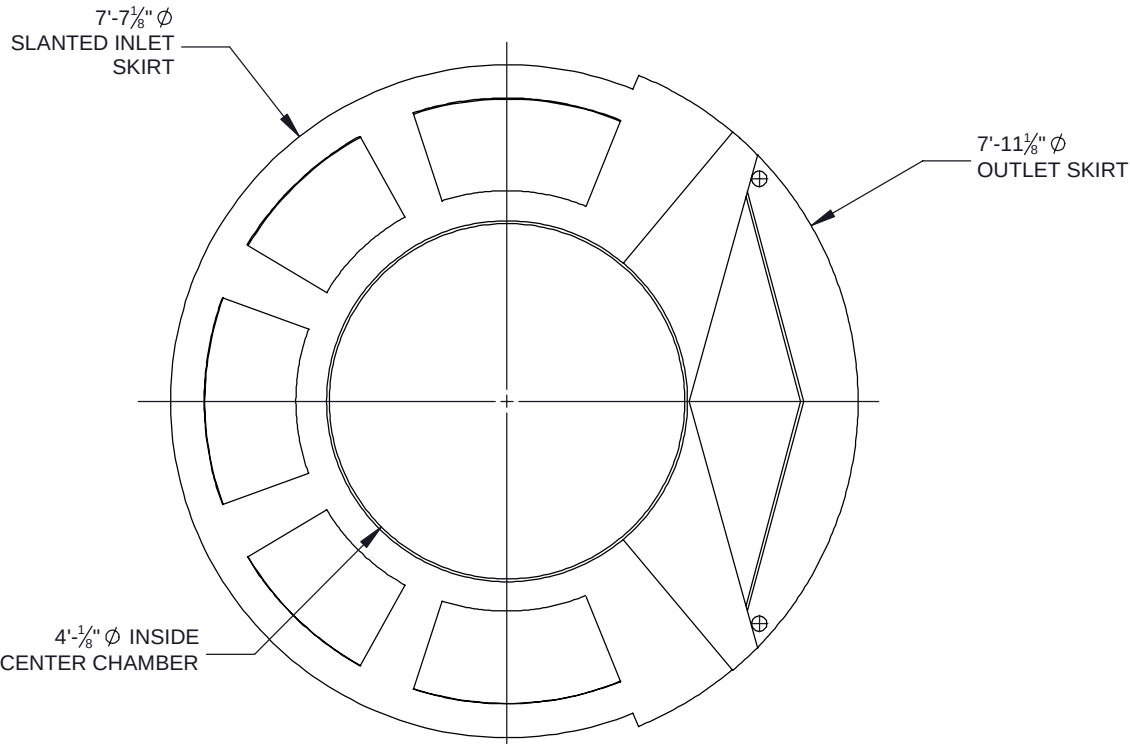
Disclaimer

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

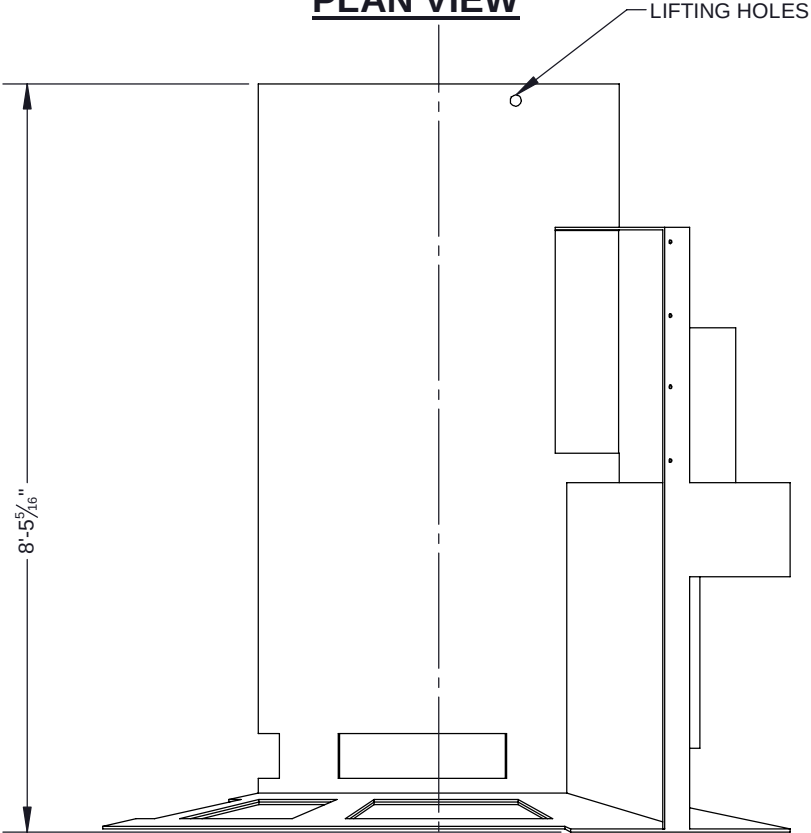
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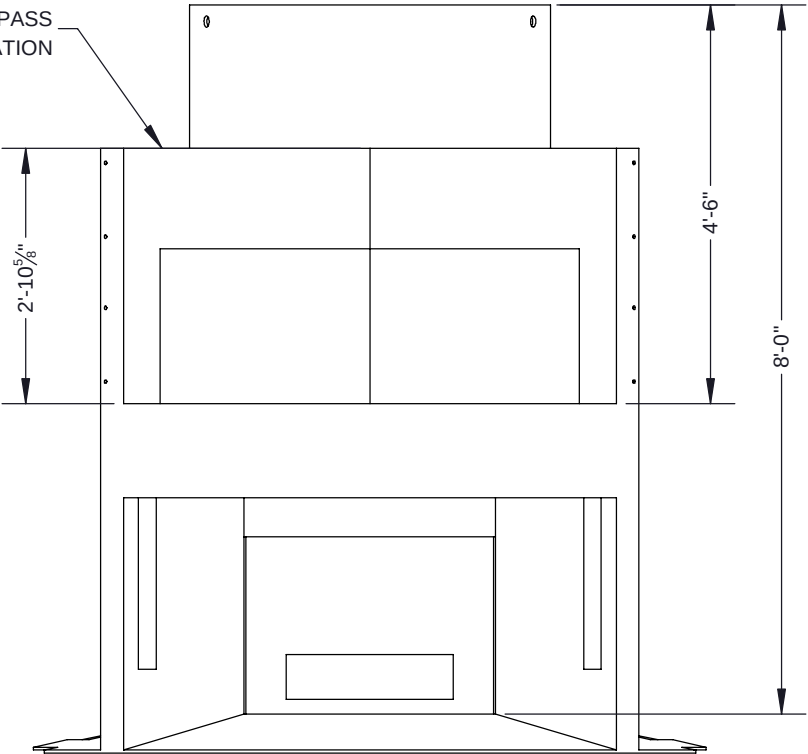
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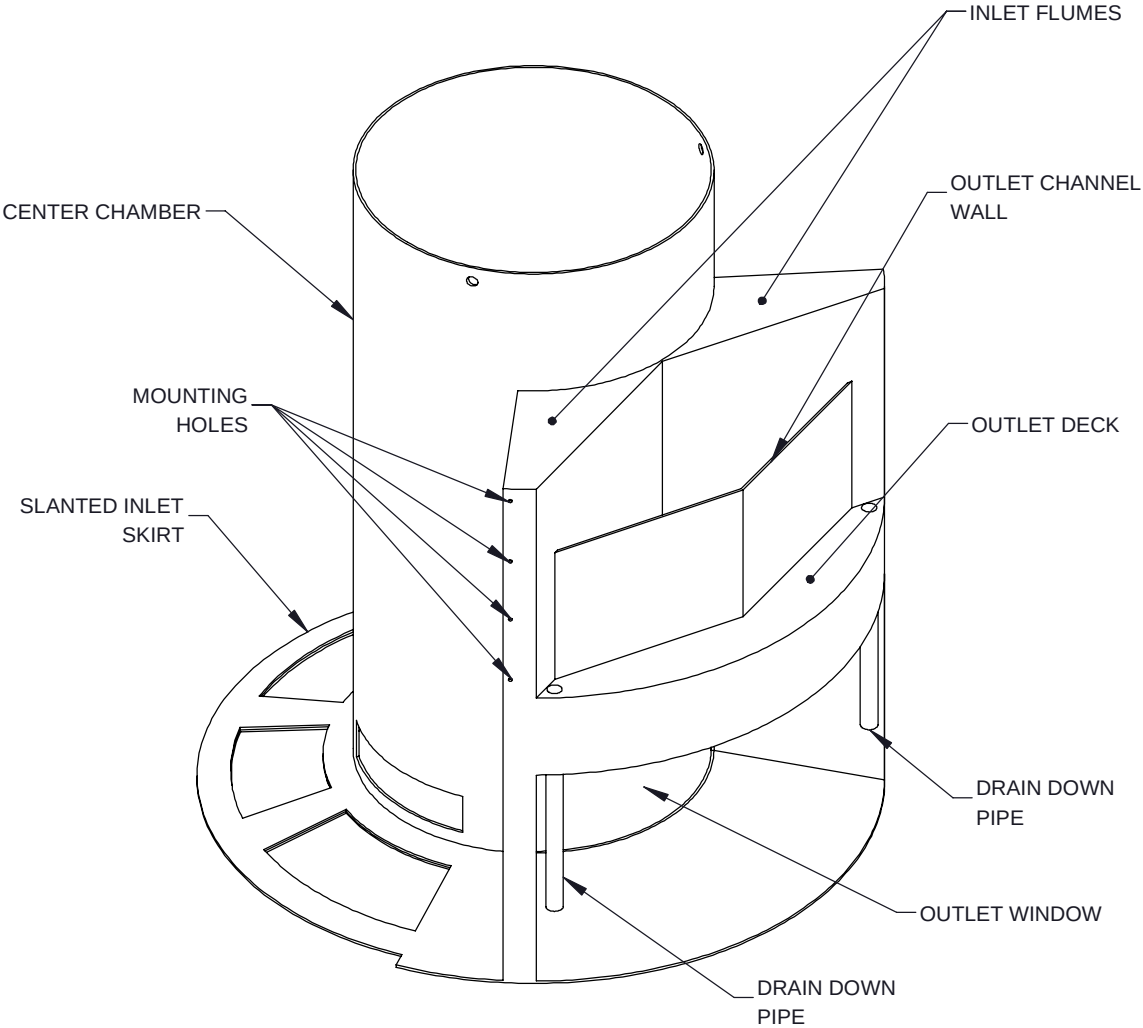
PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



ISOMETRIC VIEW

- NOTES:
- SEE CASCADE SEPARATOR INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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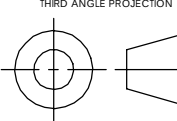
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REFERENCE DETAIL
INTERNALS CS-8
CASCADE SEPARATOR



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

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

PART NUMBER: 325-003952		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.15	REV: C
SCALE: N/A	SHEET 1 OF 1	

Arcadia™ Hydrodynamic Separator Installation Guide

Concrete Manhole Installation

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

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

Content

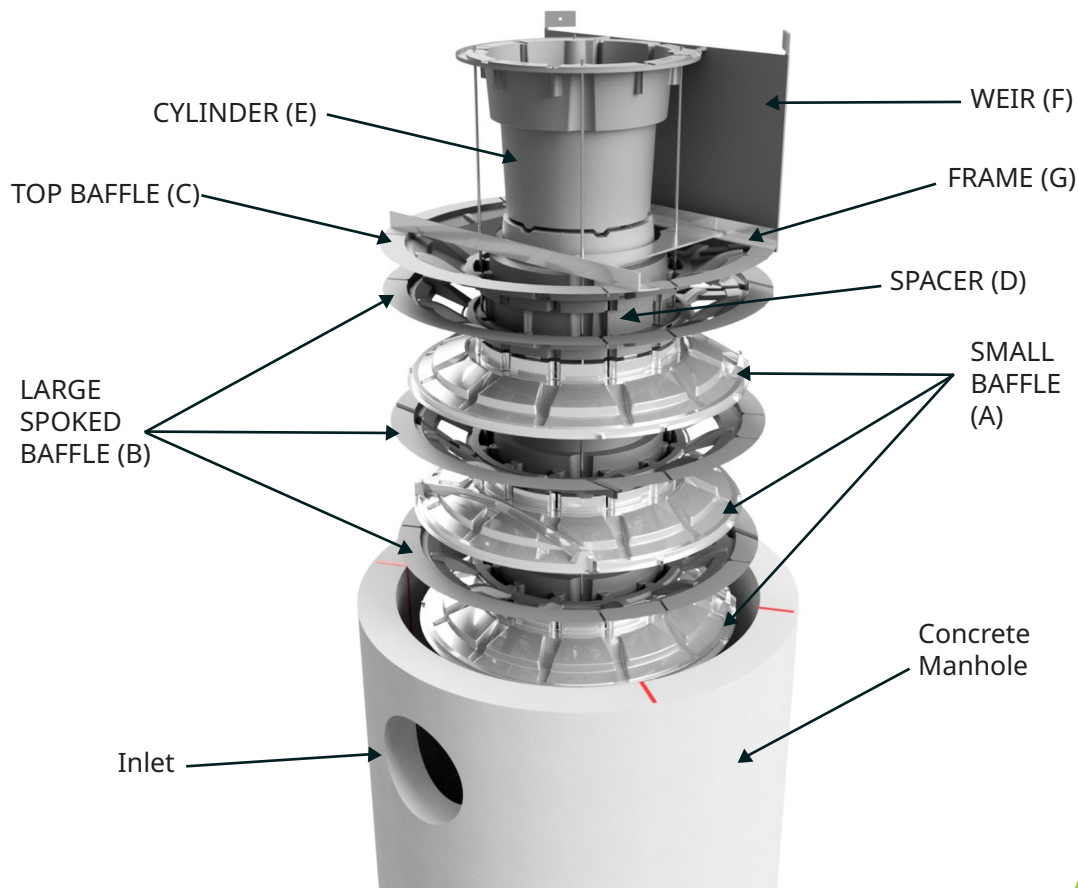
Section 1: Internal Components, Hardware & Tools

Section 2: Assembling Internal Components

Section 3: Mounting Brackets within Concrete Manhole Riser

Section 4: Transporting Assembled Arcadia Internals

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



Section 1: Internal Components, Hardware and Tools



SMALL BAFFLE (A) Qty: 3



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



TOP BAFFLE (C) Qty: 1



SPACER (D) Qty: 1



CYLINDER (E) Qty: 1



WEIR (F) Qty: 1



FRAME (G) Qty: 1

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

Hardware Provided by ADS



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



**Washers
Qty: 12**



**Nuts
Qty: 12**



**Threaded
Coupling
Qty: 4**



Screws



**Bolts for frame
Assembly**



**Rod Caps
Qty: 4**



**Threadlocker
Capsules
Qty: 2**

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

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

Other Tools Needed

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

Section 2: Assembling Internal Components

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

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

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

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

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

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

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

Scan the QR Code
to watch the
Arcadia
installation video



Figure 1

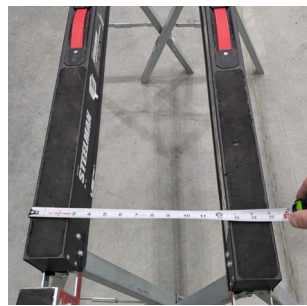


Figure 2



Figure 3



Figure 4



Figure 5

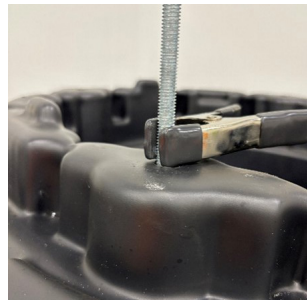


Figure 6



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

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

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

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

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

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

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

Figure 7



Figure 8

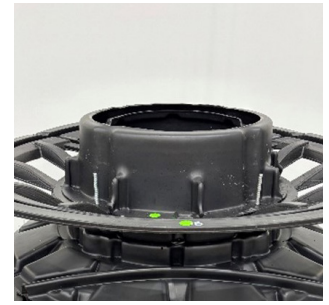


Figure 9



Figure 10



Figure 11



Figure 12

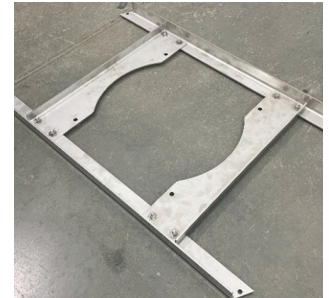


Figure 13

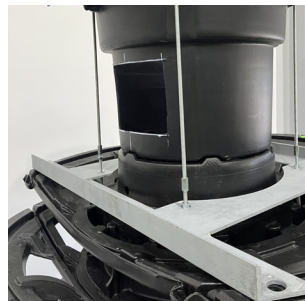


Figure 14



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

Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Section 3: Mounting Brackets within Concrete Manhole Riser

Materials provided by ADS

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

Other Tools Needed

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

Figure 22

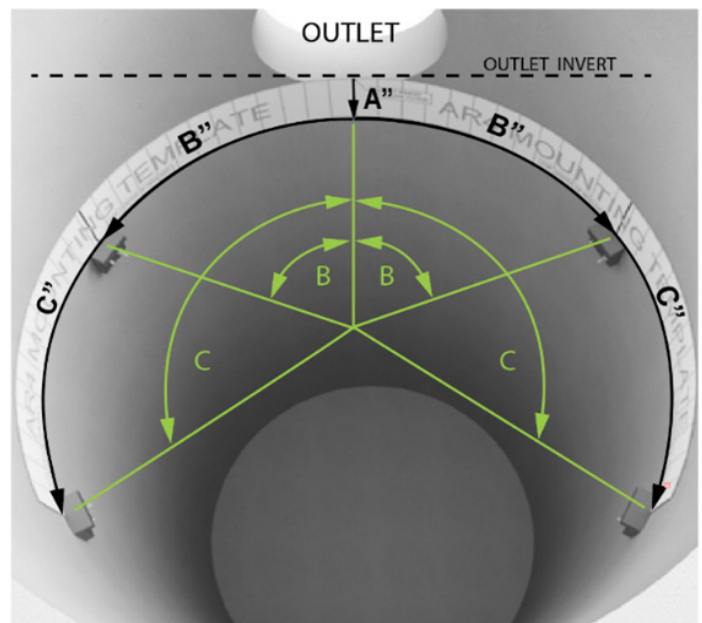


Table 1: Angular Measurements

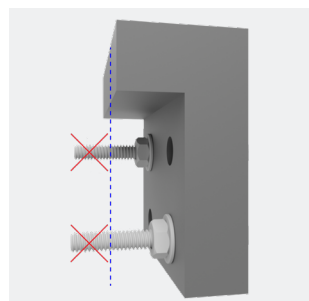
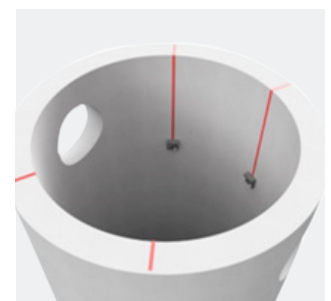
Arcadia Model	A. Depth from Outlet Invert in (mm)	B. Angle from Outlet Center	C. Angle from Outlet Center
AR3	4 1/2 (114.3)	65°	115°
AR4	5 1/2 (139.7)	60°	120°
AR5	6 (150)	65°	115°
AR6	6 1/2 (165.1)	60°	120°
AR8	8 (200)	60°	120°

Table 2: Linear Measurements

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

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

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

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

Section 4: Transporting Assembled Arcadia Internals

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

1. Choosing a segment of precast concrete manhole riser or base.
 - For transport, choose a riser section that does not contain the mounting brackets, with the following minimum riser depths. This riser section will serve as shipping containment for the internals.
 - The Arcadia internals will be permanently installed onto the mounting brackets at the jobsite. See Section 5.
2. Rigging Arcadia Internals for lifting.
 - Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach at diagonally opposite arms.
 - Appropriate rigging examples shown in **figures 27 and 28**.
3. Place Arcadia Internals within the riser segment using hoisting equipment.
4. Secure with strapping.
5. Along with the internals, be sure to also deliver the 3 additional items listed in the note below and seen in **figures 29 and 30**.

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

Figure 27



Figure 28



Figure 29



Figure 30



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

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

Transporting without a concrete riser?
Contact ADS for guidance.

Table 4: Arcadia Separator Internals Weight Once Assembled

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

Section 5: Installing Arcadia Internals into the Manhole

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

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

Materials provided by ADS

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

Other Tools Needed

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

Figure 31



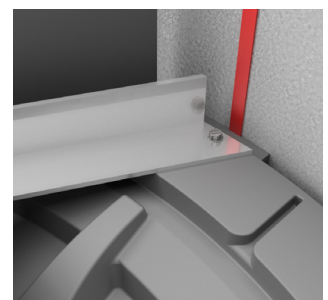
Figure 32



Figure 33



Figure 34



- a. Keep the WEIR (F) centered above the outlet pipe opening. See **figure 35**.
- b. Keep frame arms aligned with bracket centerlines during the entire lowering process. Failure to maintain alignment could result in damage to the unit. See **figure 36**.

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

Figure 35

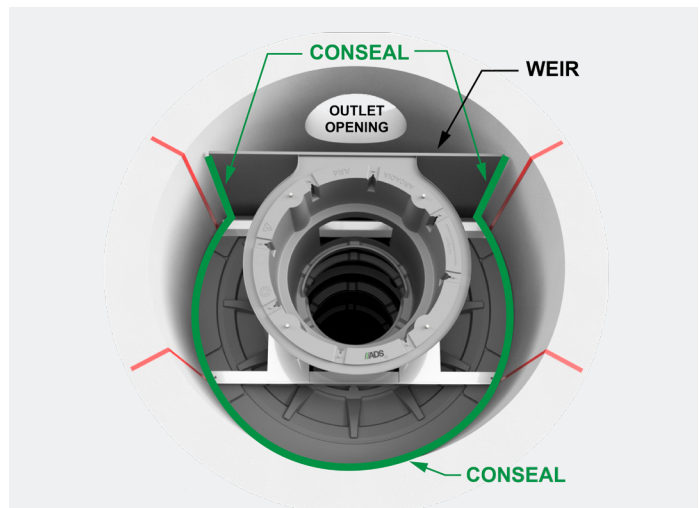


Figure 36

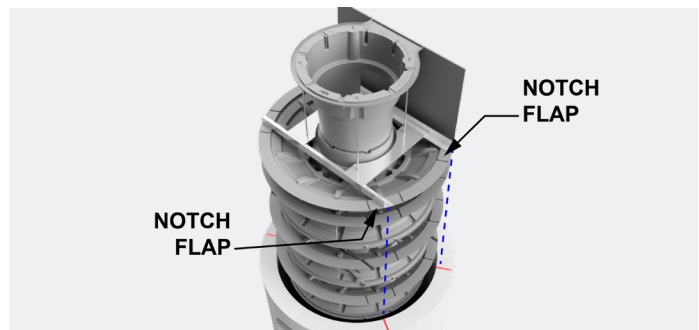


Figure 37

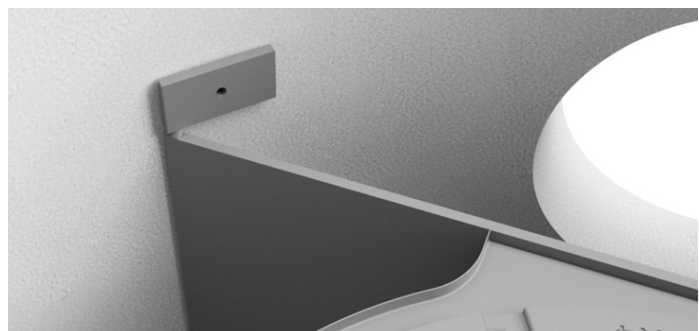
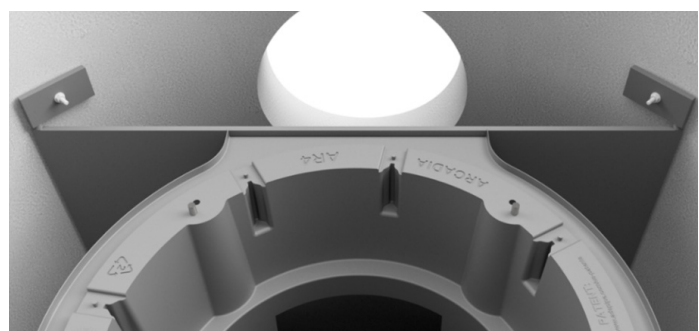


Figure 38



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

Plant: Beaver Dam, KY
6/2/2026 4:40:56 PM

Tech: K. Cardwell
PC: T. Lewis



Structure ID: QL2 GT1000 (2)

P2 BX60120-06LD08

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

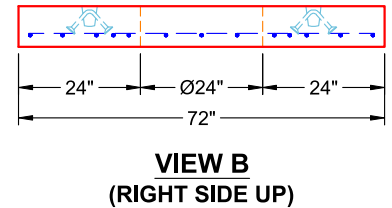
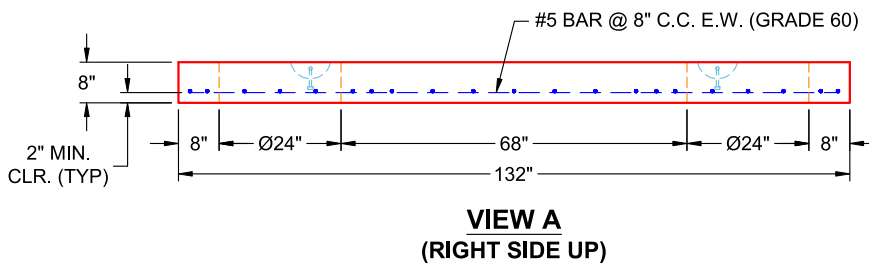
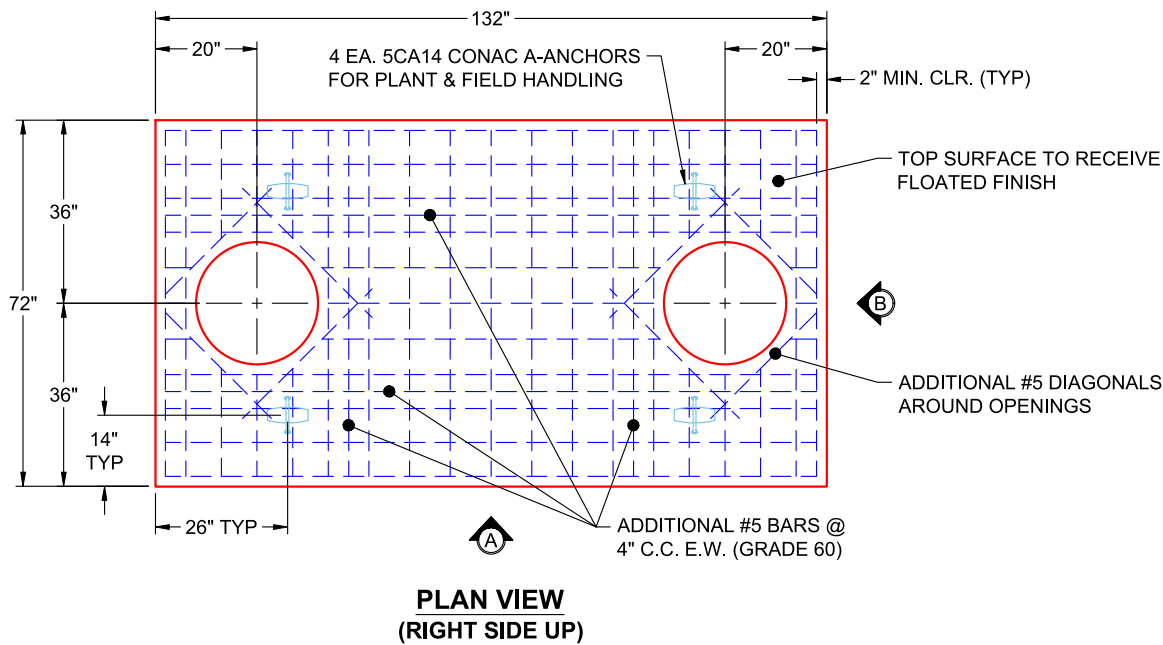
P3) 24" - CASTING HEIGHT - 7"
P2) 60" x 120" - CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F - 8"
P1) 60" x 120" - BOX BASE 6inW, 6inF F/n - 54"
1) SECONDARY POUR - Baffle Wall
1) 60" x 120" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 8QRS-S NYLO

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

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: 26-2480 - Jimmy Risinger Construction

Job Location: Louisville, KY 40219

Contractor: Bill Risinger Construction

Plant: Beaver Dam, KY

6/8/2026 11:34:50 AM

Tech: K. Cardwell

PC: J. Jarvis



Structure ID: Sump Pit

P1 BX3072-06BAVF

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

P1) 30" x 72" - BOX BASE 6inW, 6inF, Variable Ht F/n - 36"

1) SECONDARY POUR

1) 30" x 72" - Conseal CS-102 1.00"

1) No Openings

5909 lb

0 lb

0 lb

0 lb

Structure Total: 5909 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 STEPS

5. NO PIPE OPENINGS

6. NO CASTING

7. WET STICK 12" X 18" #5 L-BARS @ 12" C.C. (GRADE 60) OUT OF FLOOR FOR WALL POUR TIE-IN (SEE L-BAR DETAIL)

FIRST POUR (FLOOR): 1,776 LBS

SECOND POUR (WALLS): 4,133 LBS

Rim: 3'

Rim to Invert: 3'

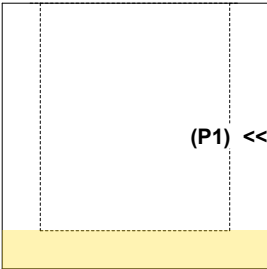
Slack: 0"

Sump: 0"

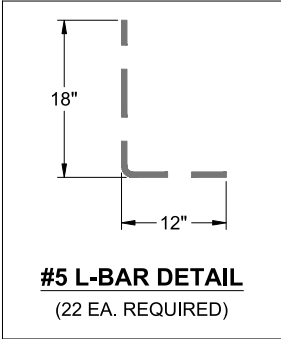
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1				No Openings						
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

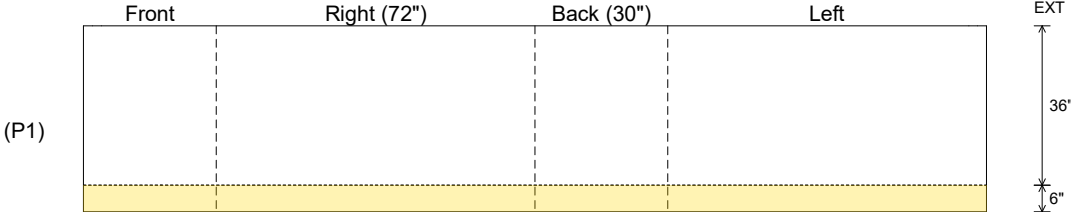
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 6"

Height (Int): 36"

Height (Ext): 42"

Weight (Net): 5909 lb

Volume (Net): 1.51cu.yd

Job Name: 26-2480 - Jimmy Risinger Construction

Job Location: Louisville, KY 40219

Contractor: Bill Risinger Construction

Plant: Beaver Dam, KY

6/8/2026 11:34:50 AM

Tech: K. Cardwell

PC: J. Jarvis



Structure ID: Sump Pit

P1 BX3072-06BAVF

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

P1) 30" x 72" - BOX BASE 6inW, 6inF, Variable Ht F/n - 36"

1) SECONDARY POUR

1) 30" x 72" - Conseal CS-102 1.00"

1) No Openings

5909 lb

0 lb

0 lb

0 lb

Structure Total: 5909 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 STEPS

5. NO PIPE OPENINGS

6. NO CASTING

7. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN

FIRST POUR (FLOOR): 1,776 LBS

SECOND POUR (WALLS): 4,133 LBS

Rim: 3'

Rim to Invert: 3'

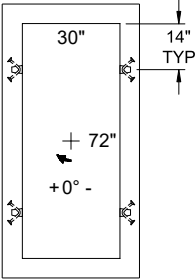
Slack: 0"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1				No Openings						
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)

(P1) <<

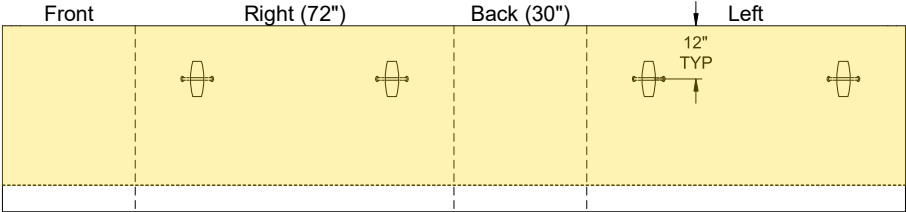
INSIDE WALL DIMENSIONS

Front

Right (72")

Back (30")

Left



EXT

36"

6"

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 6"

Height (Int): 36"

Height (Ext): 42"

Weight (Net): 5909 lb

Volume (Net): 1.51cu.yd

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

Plant: Beaver Dam, KY

Tech: K. Cardwell

6/2/2026 4:11:04 PM

PC: T. Lewis



Structure ID: QL2 GT1000 (3)

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

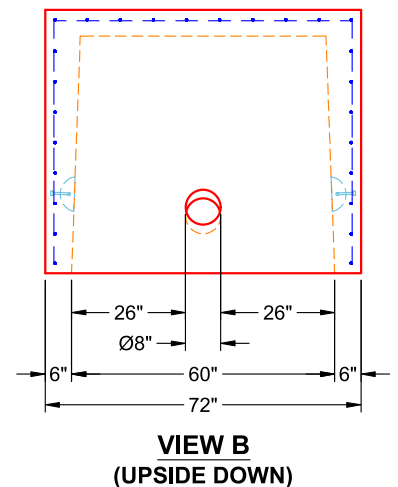
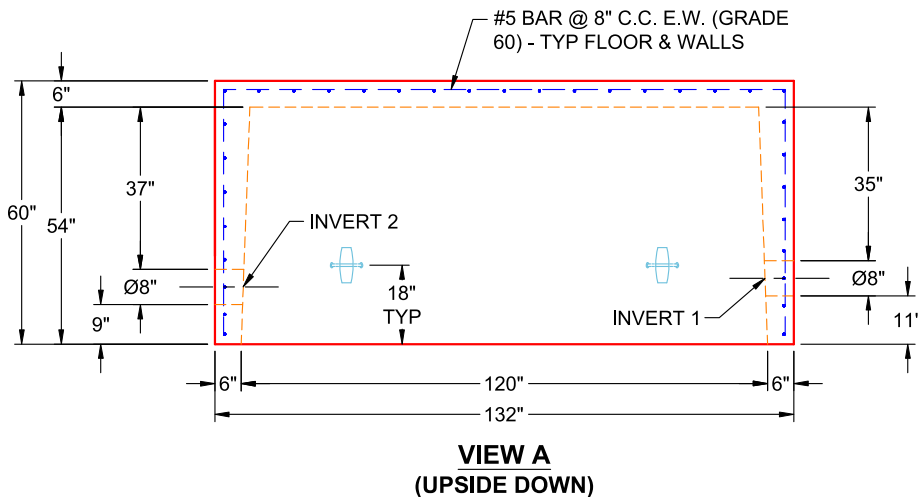
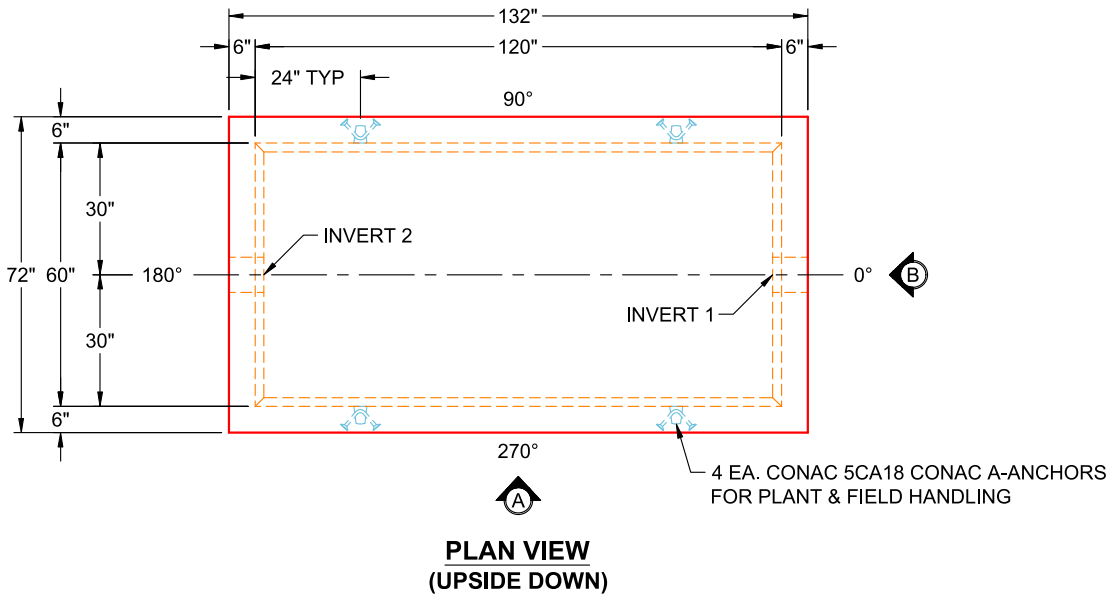
Structure Notes:

1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. NO FLOW CHANNEL
5. 2 EA. 7" CASTINGS SUPPLIED BY OTHERS
6. LIFTERS: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN

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										



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

Plant: Beaver Dam, KY
6/2/2026 4:11:04 PM

Tech: K. Cardwell
PC: T. Lewis



Structure ID: QL2 GT1000 (3)

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:

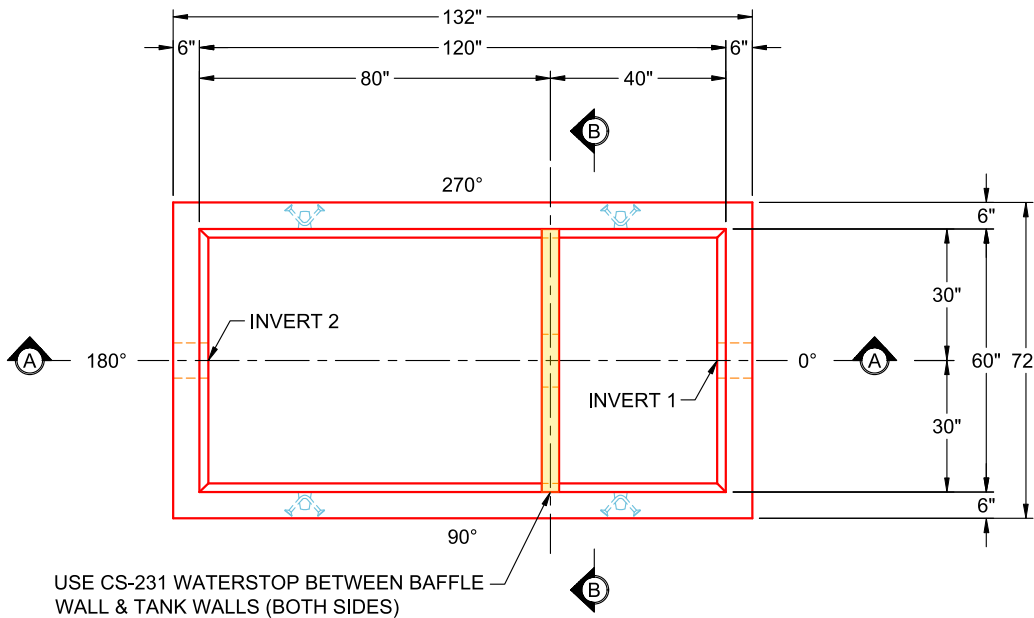
1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR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

FIRST POUR (BASE): 16,155 LBS

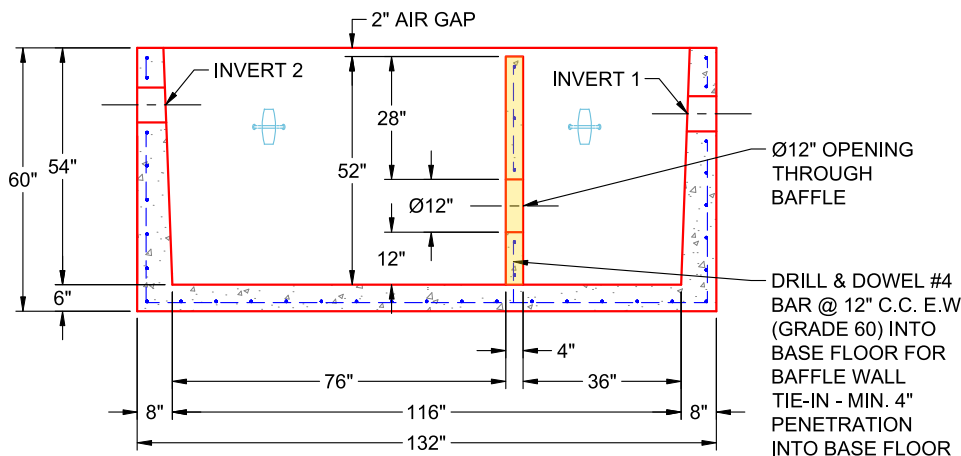
SECOND POUR (BAFFLE WALL): 975 LBS

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

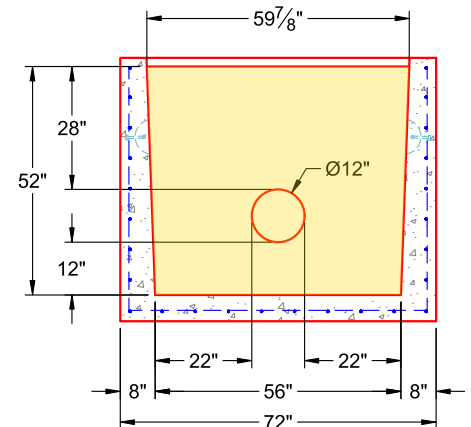
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



**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

Tech: K. Cardwell

6/2/2026 4:11:03 PM

PC: T. Lewis



Structure ID: QL2 GT1000 (2)

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

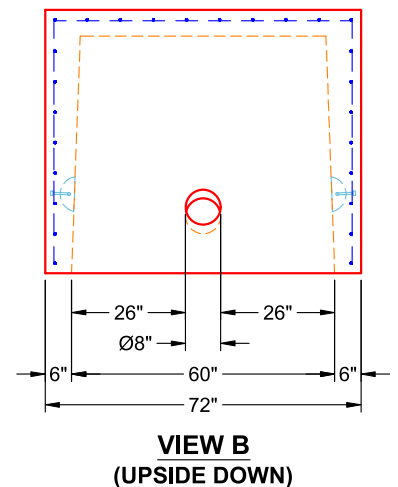
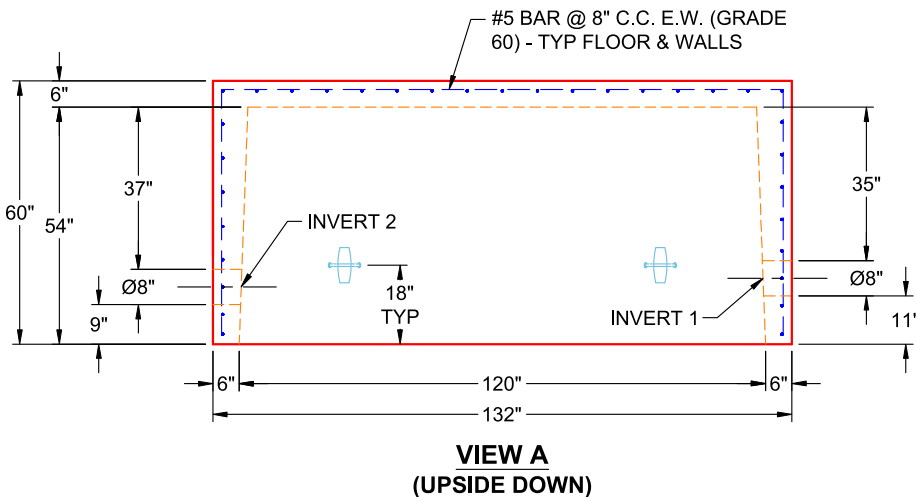
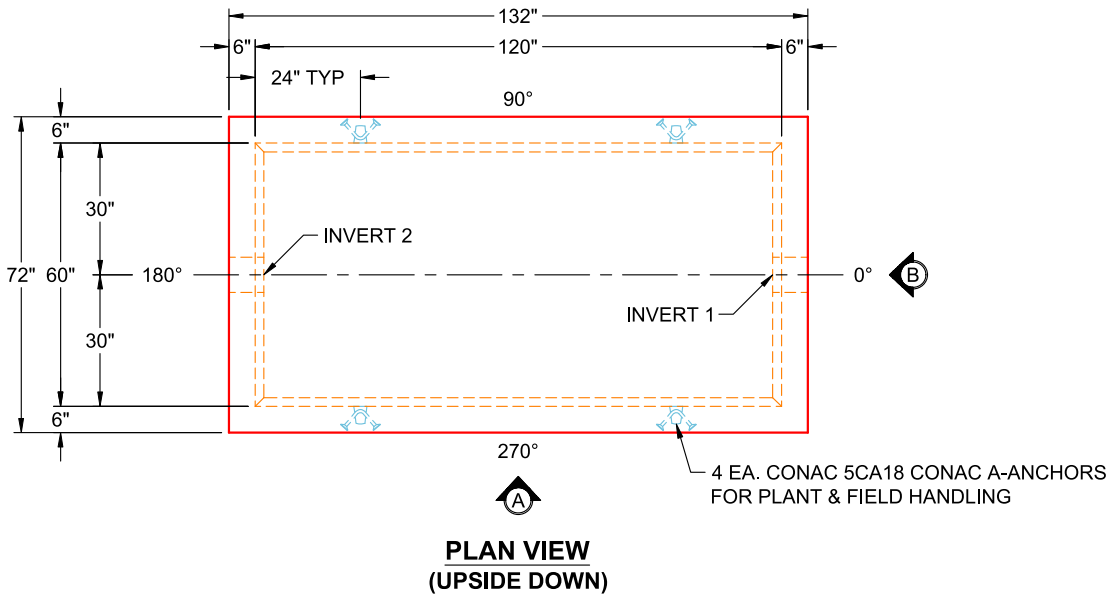
Structure Notes:

1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. NO FLOW CHANNEL
5. 2 EA. 7" CASTINGS SUPPLIED BY OTHERS
6. LIFTERS: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN

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										



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

Plant: Beaver Dam, KY
6/2/2026 4:11:03 PM

Tech: K. Cardwell
PC: T. Lewis



Structure ID: QL2 GT1000 (2)

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:

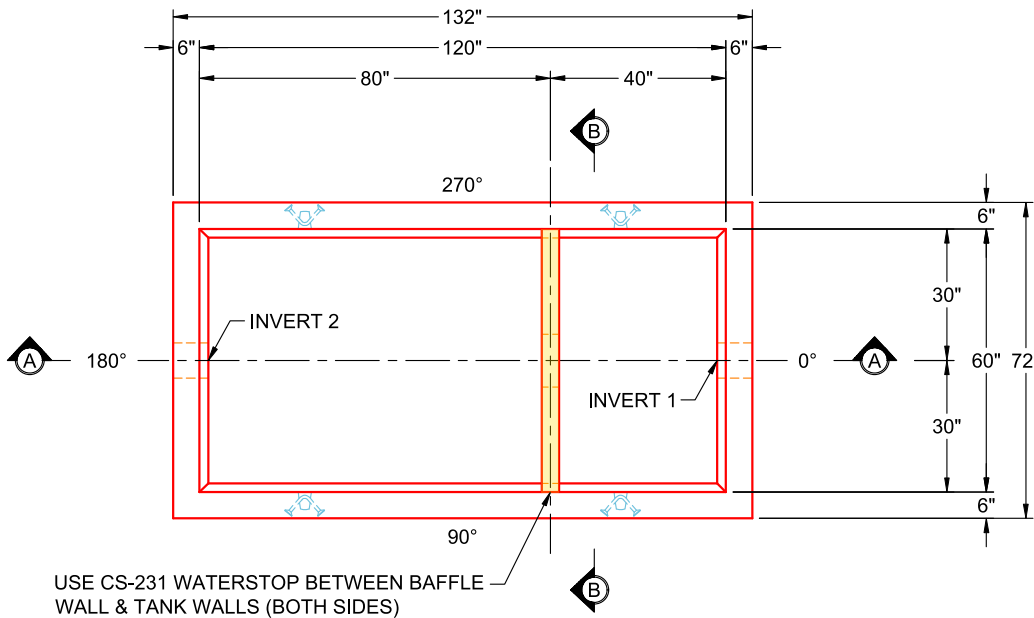
1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR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

FIRST POUR (BASE): 16,155 LBS

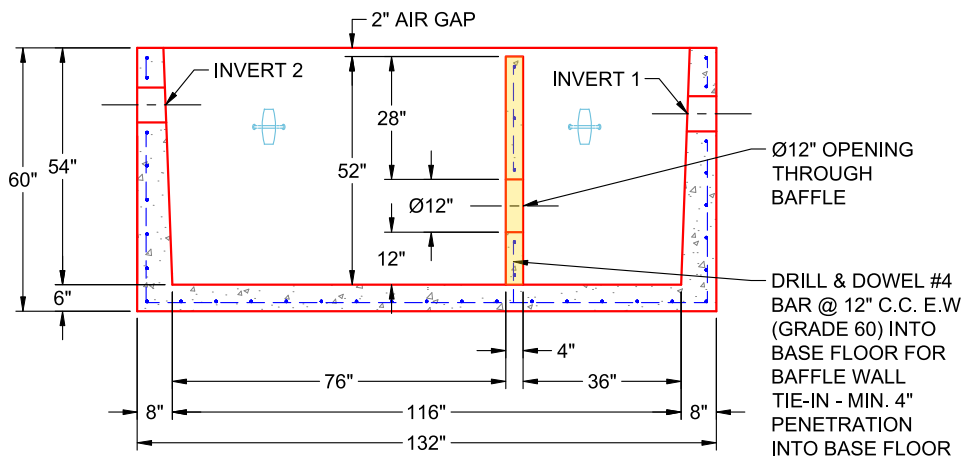
SECOND POUR (BAFFLE WALL): 975 LBS

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

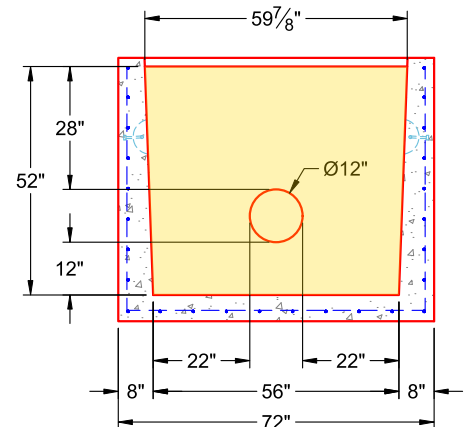
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



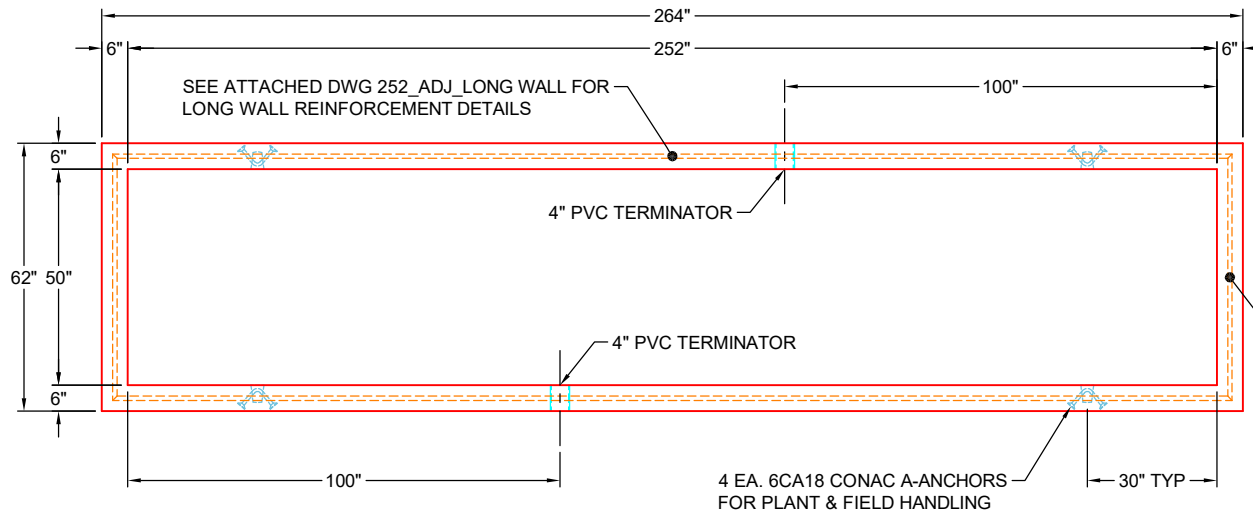
**PLAN VIEW
(RIGHT SIDE UP)**



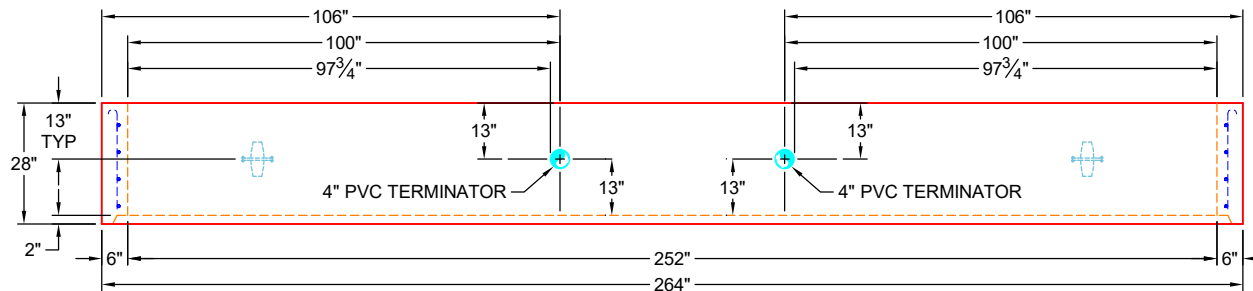
**SECTION A-A
(RIGHT SIDE UP)**



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



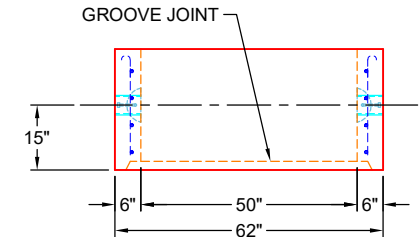
**PLAN VIEW
(RIGHT SIDE UP)**



**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. 1 1/2" 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: 1-26 691249488

WEIGHT: 9,178 LBS

STRUCTURE: 2-61615 1 (EFX-60 21 PN VAULT)

TOP SECTION JOINT: GROOVE

ORDER NO: 26-1615

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

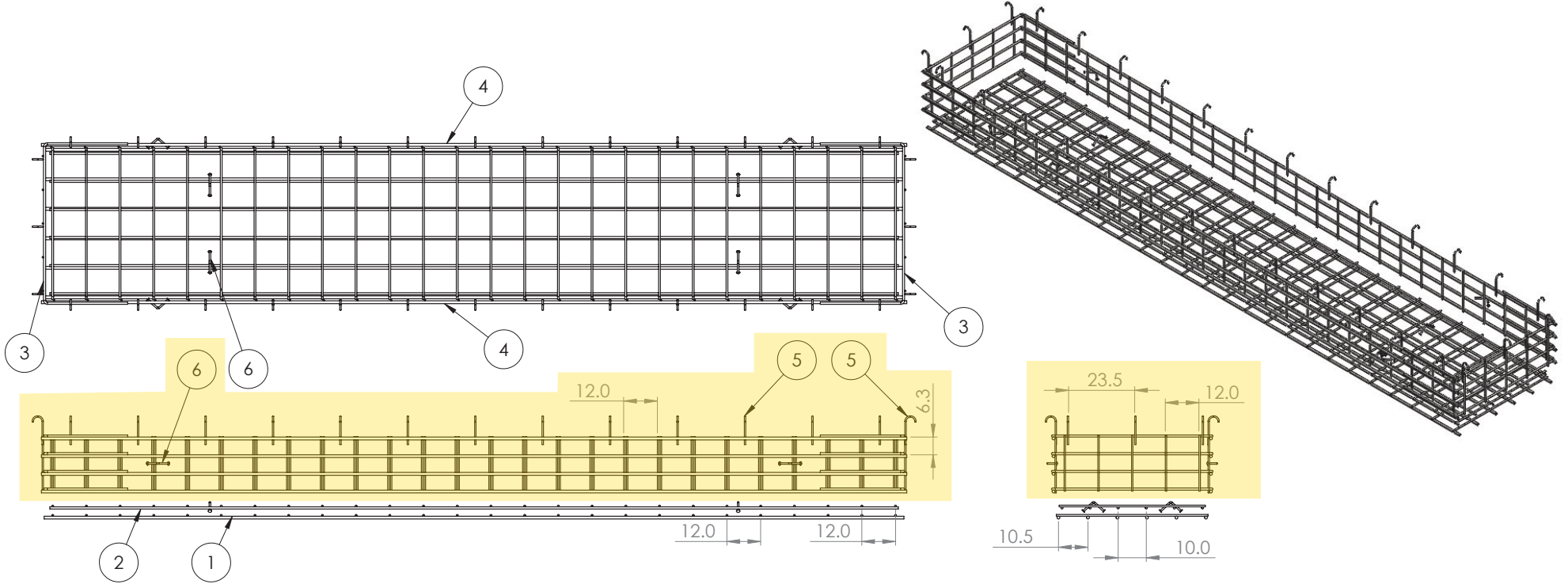
3

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 O904J	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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THE INFORMATION CONTAINED IN THIS
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ENDESOL INC. ANY REPRODUCTION IN
PART OR AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF
ENDESOL INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	ENDESOL TITLE: EFX-60 Adjustable Section Rebar Layout
		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		
			SIZE B	DWG. NO. EFX-60 ADJ Rebar	REV X1
			SCALE: 1:50	WEIGHT:	SHEET 1 OF 1

4

3

2

1

A

A

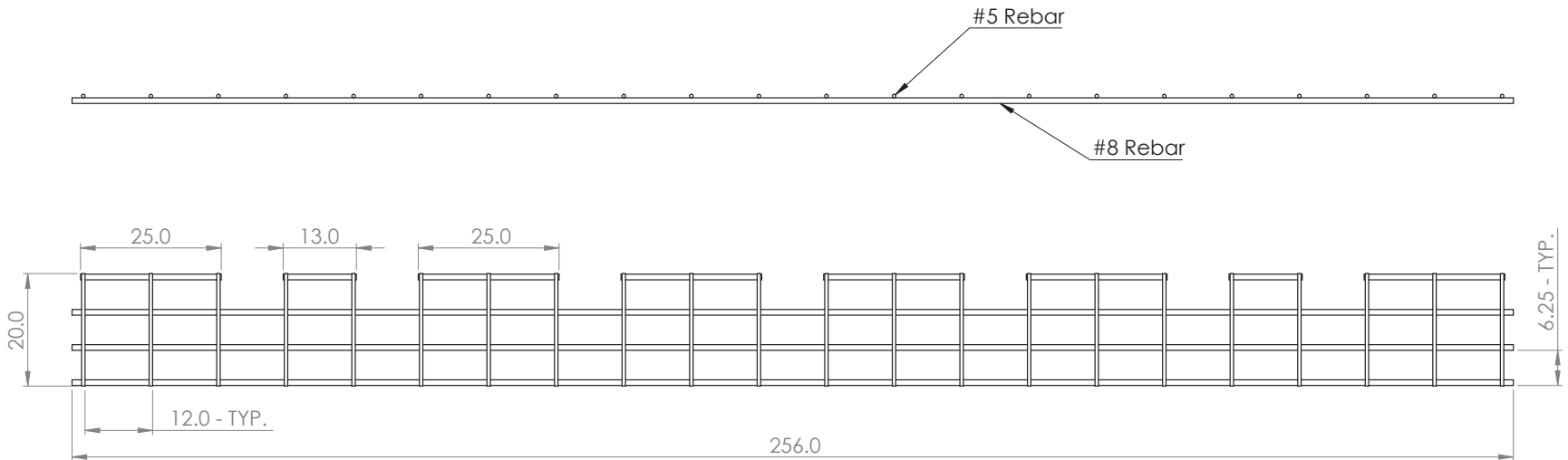
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3

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



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Beaver Dam, KY
42320
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F 270-363-2234
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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

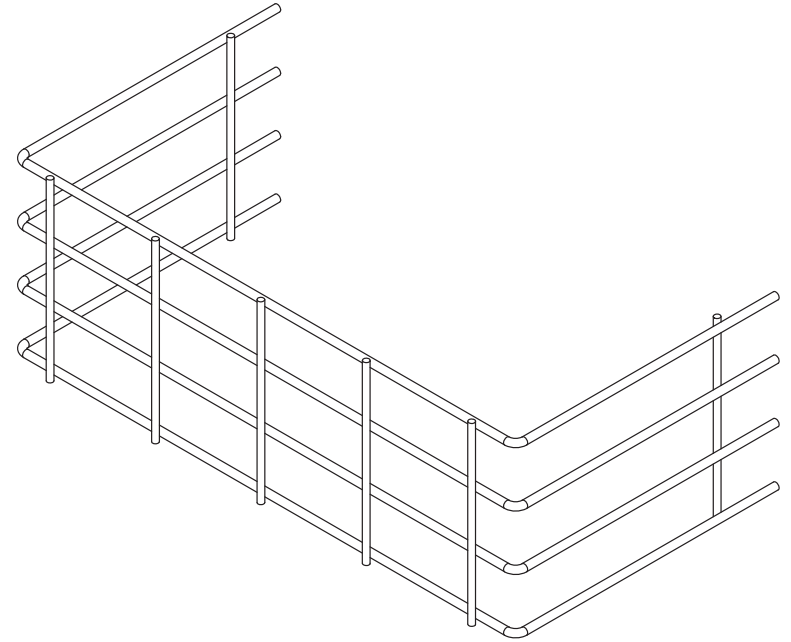
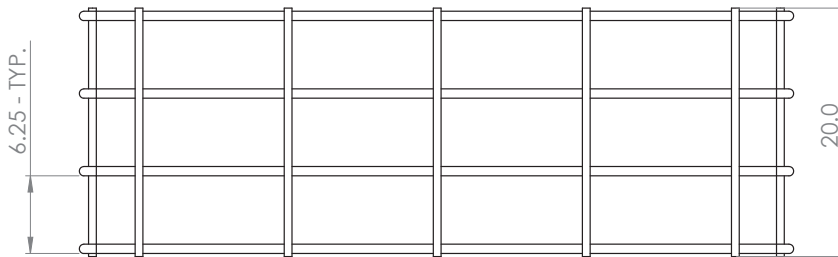
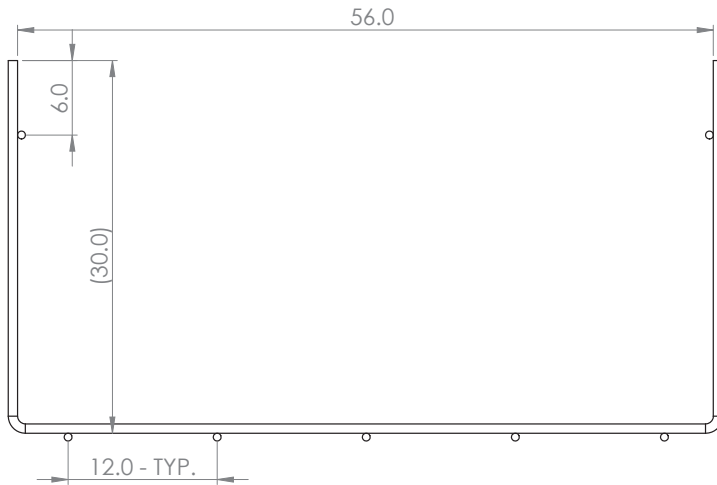
1

4

3

2

1



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



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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

	NAME	DATE
DRAWN	XXX	
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

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

Job Number:

26-1615

Job Name:

1-26 691249488

Structure:

2-61615 1

Note:

Nosing Kit To Be Shipped. See Chad Jarvis.