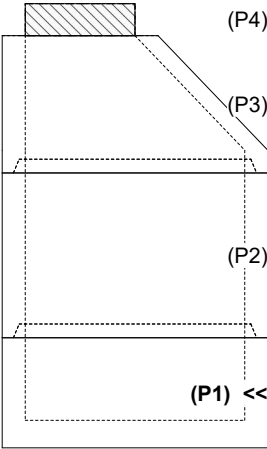
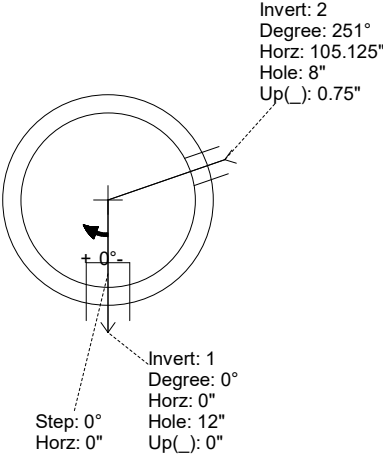


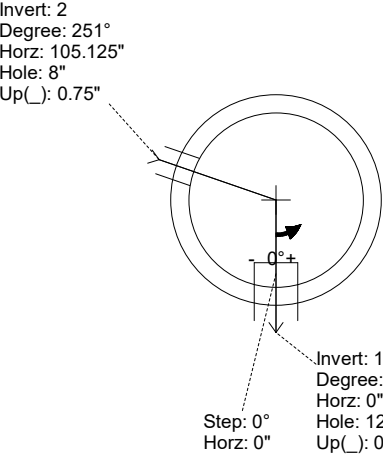
Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:04:42 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 3 SS-MH											
P1 MH048BA18CDARED					MH BASE w/ConBlock-CDA Red T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 DD (DBL Bands) 1) PSX - 8QRS DD (DBL Bands) 7) MH Step ML-10-TDS-NCR - 10"					0 lb 1961 lb 2515 lb 2519 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 8 lb 0 lb 6 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED 5. STEPS AT 0 DEGREES 6. CONBLOCK CDA RED ADMIXTURE REQUIRED 7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST 8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST				
Rim: 541' Rim to Invert: 7.64' Slack: 2.68" Sump: 2" Step Position: 0°					Structure Total: 8699 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (°)	Offset	
Invert 1	533.36'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"	
Invert 2	533.46'	251°	127"	3" PVC SDR35	3.25"	PSX 8QRS DD (DBL Bands)	8"	8.038"	0.75"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



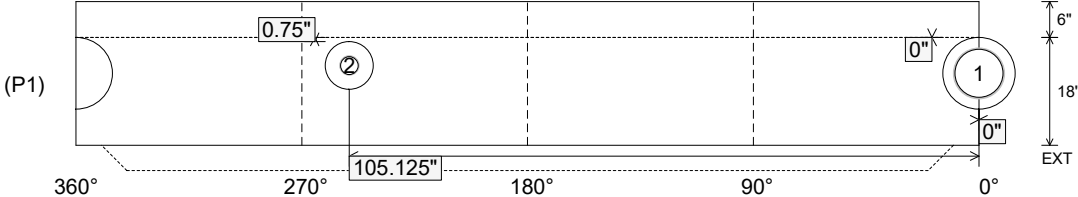
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

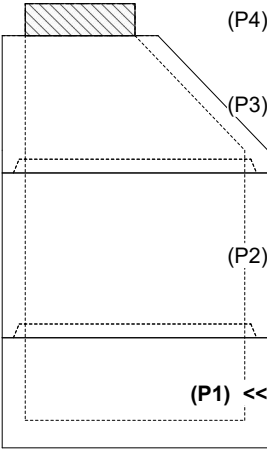


INSIDE WALL DIMENSIONS

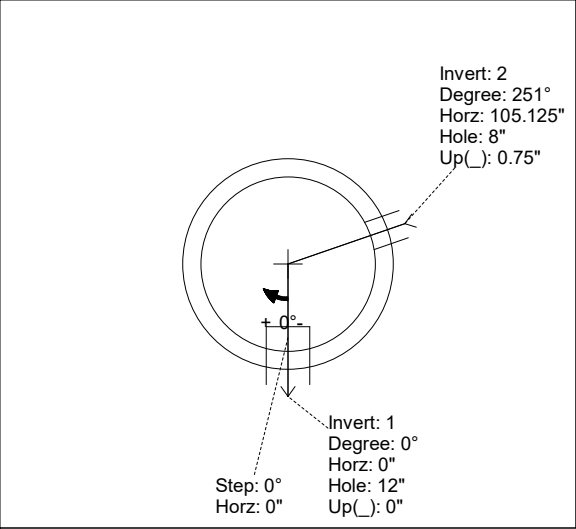


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 2519 lb Volume (Net): 0.64cu.yd
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Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:04:42 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 3 SS-MH											
P1 MH048BA18CDARED					MH BASE w/ConBlock-CDA Red T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 DD (DBL Bands) 1) PSX - 8QRS DD (DBL Bands) 7) MH Step ML-10-TDS-NCR - 10"					0 lb 1961 lb 2515 lb 2519 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 8 lb 8 lb 6 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED 5. STEPS AT 0 DEGREES 6. CONBLOCK CDA RED ADMIXTURE REQUIRED 7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST 8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST				
Rim: 541' Rim to Invert: 7.64' Slack: 2.68" Sump: 2" Step Position: 0°					Structure Total: 8699 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	533.36'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"	
Invert 2	533.46'	251°	127"	3" PVC SDR35	3.25"	PSX 8QRS DD (DBL Bands)	8"	8.038"	0.75"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)

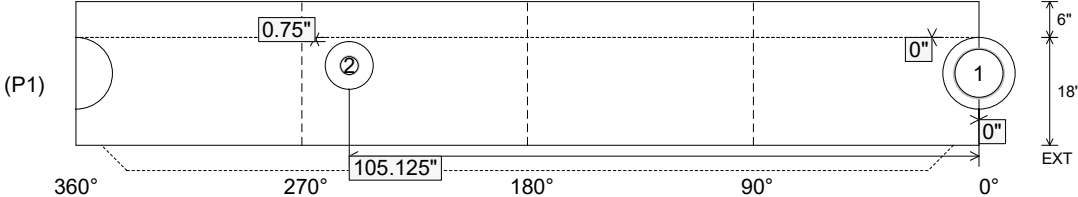


UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL
DRAWING

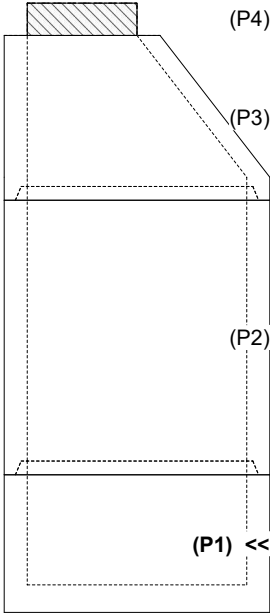
SMOOTH FINISH
REQUIRED

INSIDE WALL DIMENSIONS

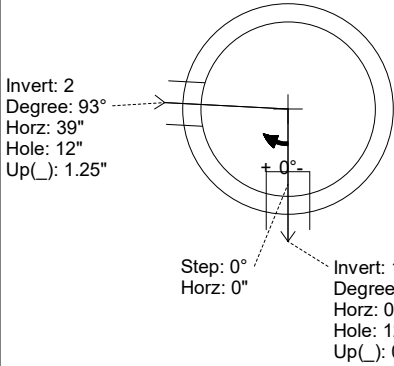


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 2519 lb Volume (Net): 0.64cu.yd
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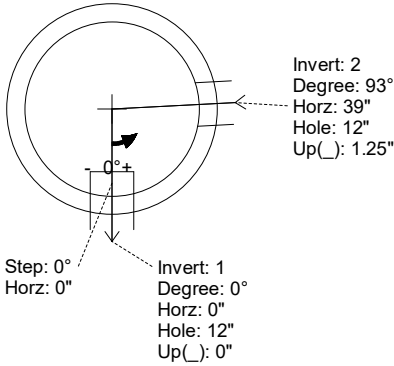
Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:04:41 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 2 SS-MH											
P1 MH048BA24CDARED					MH BASE w/ConBlock-CDA Red T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 DD (DBL Bands) 10) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- 11060 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED 5. STEPS AT 0 DEGREES 6. CONBLOCK CDA RED ADMIXTURE REQUIRED 7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST 8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST				
Rim: 541.75' Rim to Invert: 10.61' Slack: 2.32" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	531.14'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"	
Invert 2	531.24'	93°	47.125"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



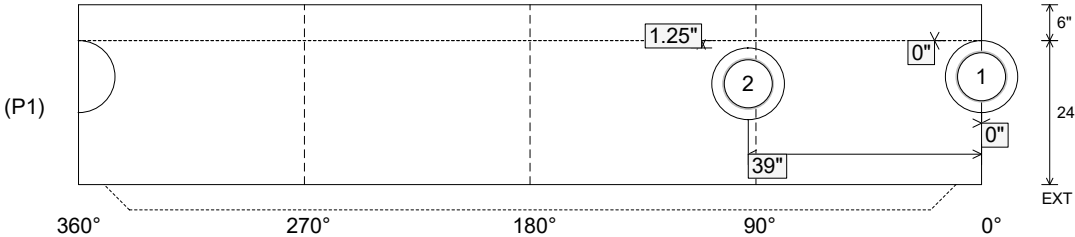
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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Job Name: 26-1715 - Christian Co HS Sewer

Job Location: Hopkinsville, KY

Contractor: West Kentucky Industrial & Plumbing

Plant: 100

6/8/2026 4:04:41 PM

Tech: Jared - A

PC: T. Lewis



Structure ID: 2 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 7"

P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"

P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"

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

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

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

1) ADMIXTURE CONBLOCK CDA RED

1) CASTING - JBS 1140 F/C SANITARY

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

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

2) PSX - 12-08 DD (DBL Bands)

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

0 lb

2251 lb

4192 lb

2911 lb

0 lb

0 lb

1440 lb

0 lb

250 lb

0 lb

0 lb

16 lb

0 lb

11060 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED

5. STEPS AT 0 DEGREES

6. CONBLOCK CDA RED ADMIXTURE REQUIRED

7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST

Structure Total:

11060 lb

Rim: 541.75'

Rim to Invert: 10.61'

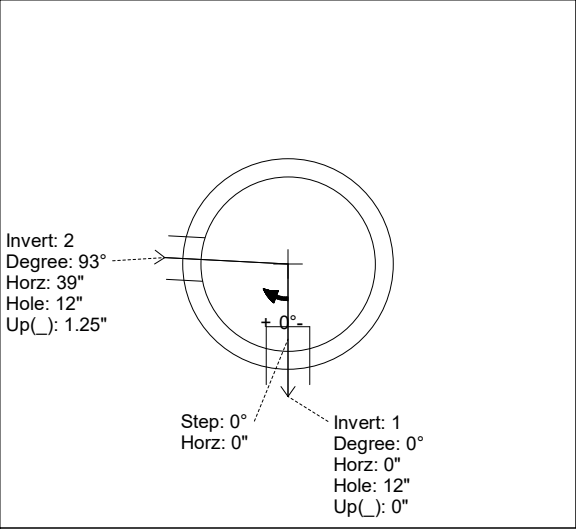
Slack: 2.32"

Sump: 2"

Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	531.14'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"
Invert 2	531.24'	93°	47.125"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2

Degree: 93°

Horz: 39"

Hole: 12"

Up(): 1.25"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 12"

Up(): 0"

Step: 0°

Horz: 0"

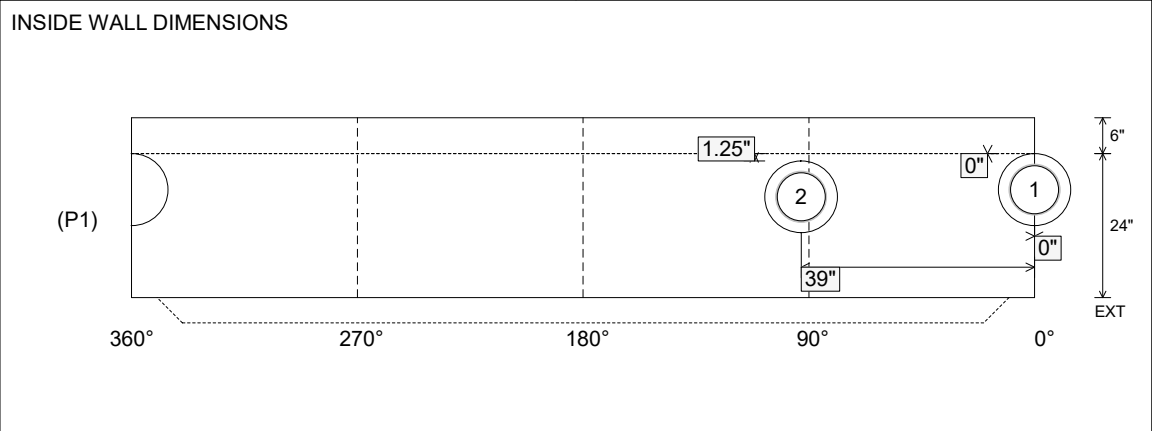
UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

SMOOTH FINISH REQUIRED

INSIDE WALL DIMENSIONS



(P1)

360°

270°

180°

90°

0°

1.25"

0"

0"

39"

6"

24"

EXT

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

Height (Int): 24"

Height (Ext): 30"

Weight (Net): 2911 lb

Volume (Net): 0.74cu.yd

Contractor: Lawrence Construction & Leasing, Inc.

TECH: J.Horsley

Plant: 100



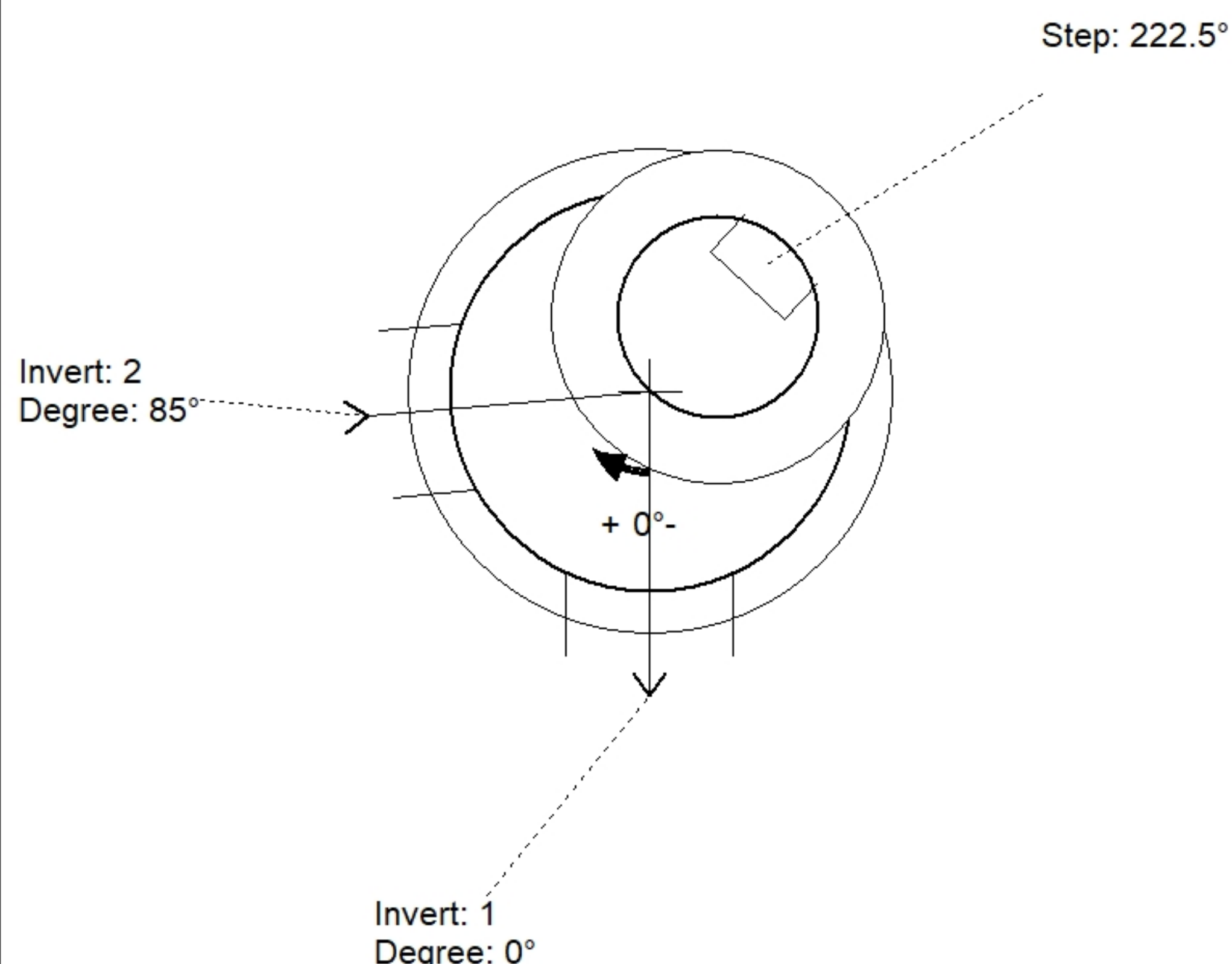
Slack: 0.16"

1. PER KYTC MH A / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60.)

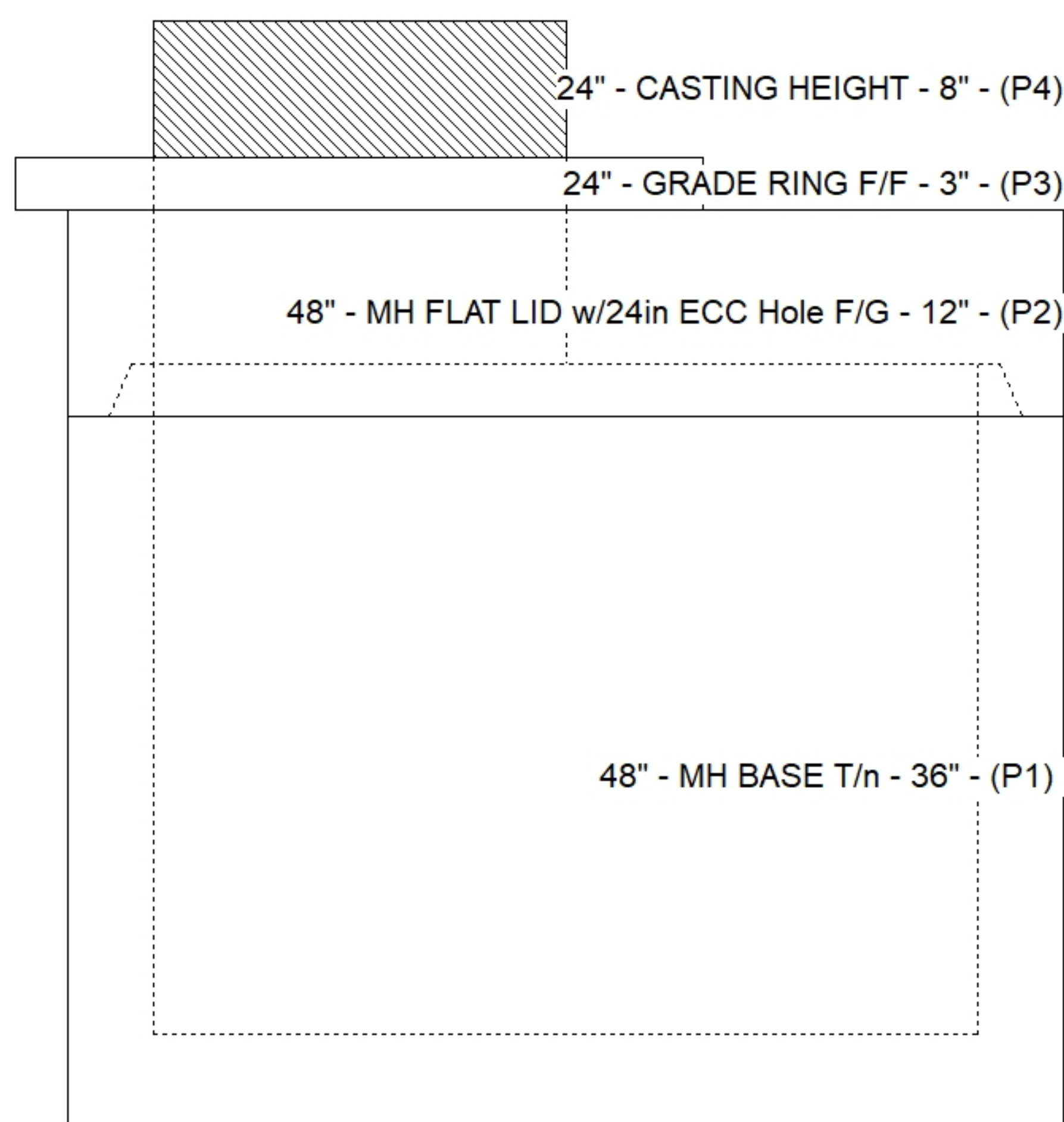
STRUCTURE SUMMARY:

249 lb

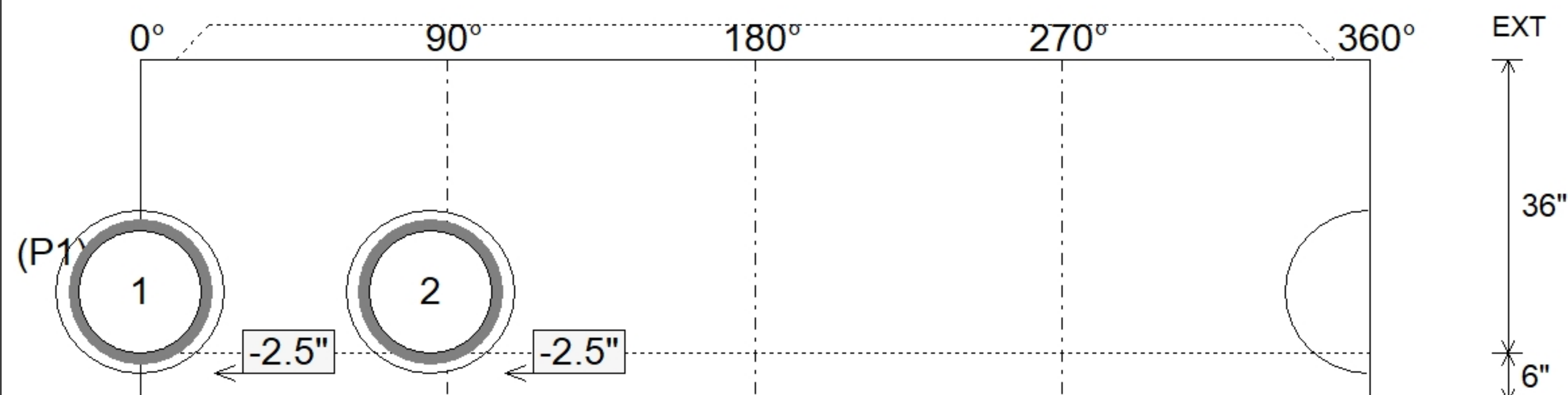
Structure Total: 5848 lb



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up (⌵)	Ref
Rim	888.44'							
Reducer								
Invert 1	883.51'	0°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 2	883.51'	85°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 3								
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								



Cast (Int. Dim.) - Interior Dimensions

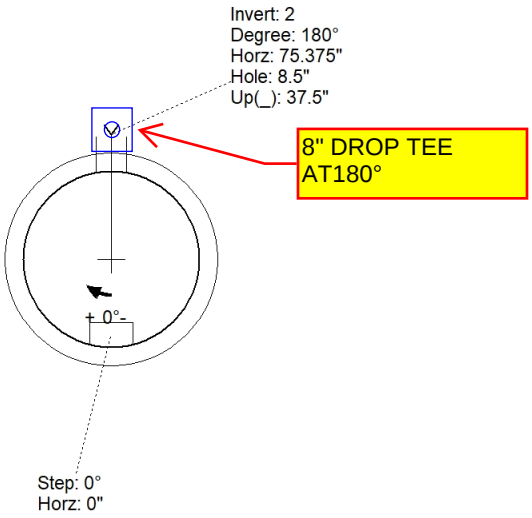


Submittal Drawing
5/13/2026 2:21:22 PM

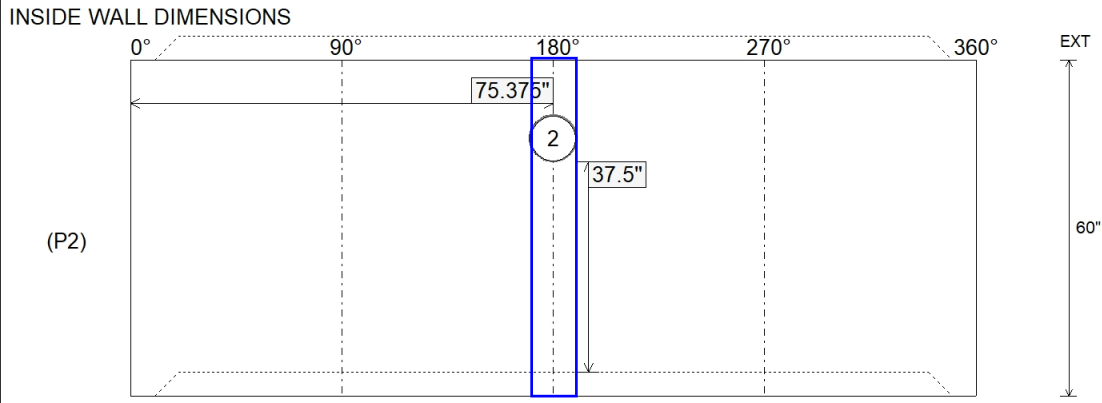
SUBMITTAL
APPROVED BY:

Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100 5/19/2026 1:01:07 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: SSMH CC-2-DROP											
P2 MH048RS60S-D		MH RISER w/DROP T/G									
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 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.				
Structure Total:					11745 lb						
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											
Invert 2	854.85'	180°	91.125"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.545"	37.5"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)

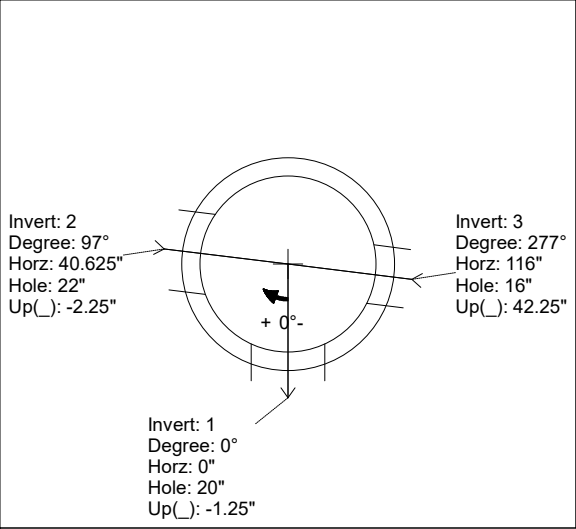


INSIDE WALL DIMENSIONS

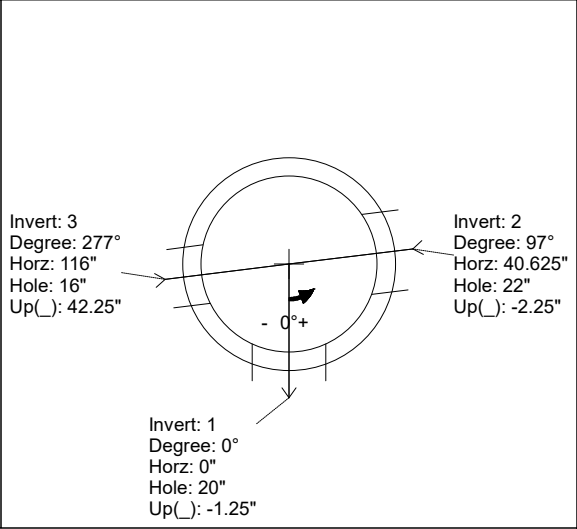


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 60" Height (Ext): 60"	Weight (Net): 4168 lb Volume (Net): 1.06cu.yd
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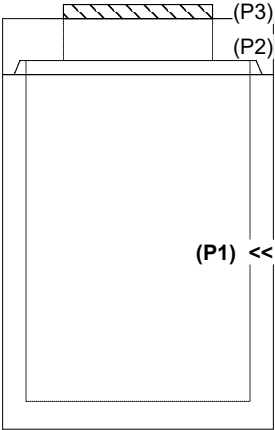
Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements Job Location: Louisville, KY 40208 Contractor: Louisville Paving and Construction					Plant: 100 4/30/2026 1:21:40 PM		Tech: Jared - F PC: J. Jarvis				
Structure ID: S107											
P1 MH048BAVF		MH BASE Custom Ht T/n									
P3) 32" x 32" - CASTING HEIGHT - 3" P2) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12" P1) 48" - MH BASE Custom Ht T/n - 70" 1) CASTING - HOE 595 F/G 1) 48" - Conseal CS-102 1.00" 1) 32" x 32" - Conseal CS-102 1.00" 1) Hole - 20 1) Hole - 22 1) Hole - 16					0 lb 1629 lb 5835 lb 376 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 7840 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: 457.85' Rim to Invert: 7.09' Slack: 0.08" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	450.76'	0°	0"	15" HDPE	17.6"	Hole 20	20"	20.629"	-1.25"	0"	
Invert 2	450.76'	97°	49.125"	15" RCP B WALL	19.5"	Hole 22	22"	22.854"	-2.25"	0"	
Invert 3	454.38'	277°	140.25"	12" HDPE	14.5"	Hole 16	16"	16.312"	42.25"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



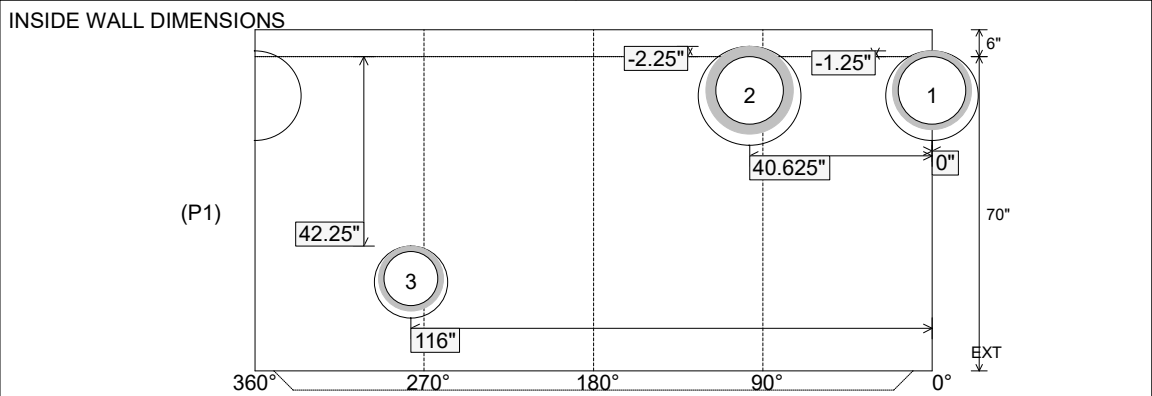
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



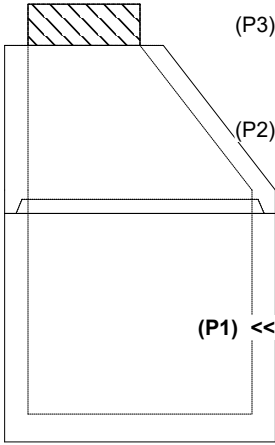
(P1) <<



INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 70" Height (Ext): 76"	Weight (Net): 5835 lb Volume (Net): 1.49cu.yd
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Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:41 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: MH-02										
P1 MH048BAVF		MH BASE Custom Ht T/n								
P3) 24" - CASTING HEIGHT - 8.85" P2) 48" - ECC CONE w/ 24" HOLE F/G - 36" P1) 48" - MH BASE Custom Ht T/n - 43" 1) CASTING - NEENAH R-1785 (F/C) 1) 48" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 20 7) MH Step ML-10-TDS-NCR - 10"					0 lb 3000 lb 3804 lb 294 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 7098 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 .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 602.85' Rim to Invert: 7.35' Slack: 0.35" Sump: 0" Step Position: 270°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	595.5'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	595.9'	93°	47.125"	16" DI	17.5"	Hole 20	20"	20.629"	4"	0"
Invert 3	595.6'	180°	91.125"	18" HDPE	21.2"	Hole 24	24"	25.133"	-0.375"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

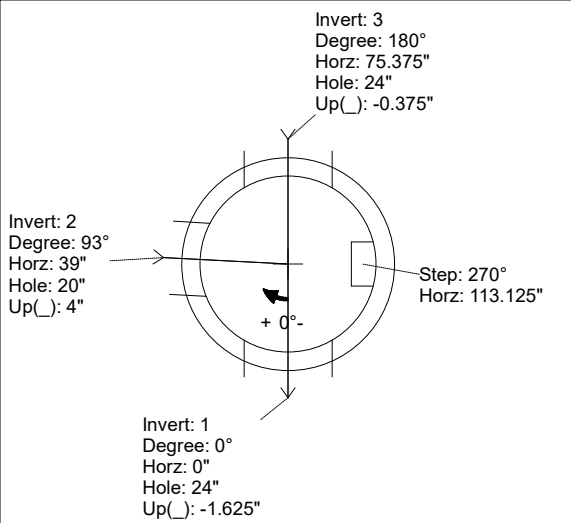


(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)



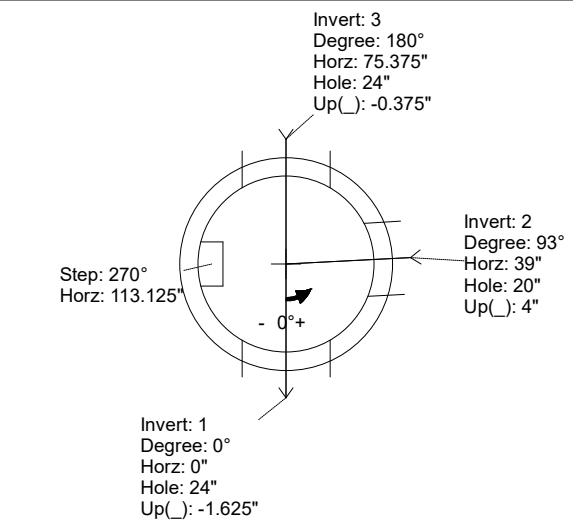
Invert: 3
Degree: 180°
Horz: 75.375"
Hole: 24"
Up(): -0.375"

Invert: 2
Degree: 93°
Horz: 39"
Hole: 20"
Up(): 4"

Step: 270°
Horz: 113.125"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 24"
Up(): -1.625"

UPSIDE-DOWN VIEW (int. dimensions)



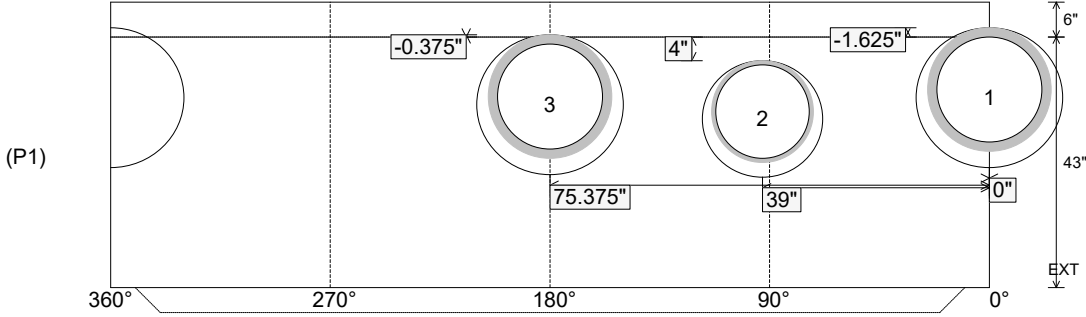
Invert: 3
Degree: 180°
Horz: 75.375"
Hole: 24"
Up(): -0.375"

Step: 270°
Horz: 113.125"

Invert: 2
Degree: 93°
Horz: 39"
Hole: 20"
Up(): 4"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 24"
Up(): -1.625"

INSIDE WALL DIMENSIONS



(P1)

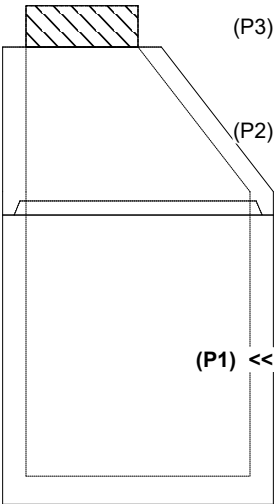
360° 270° 180° 90° 0°

EXT

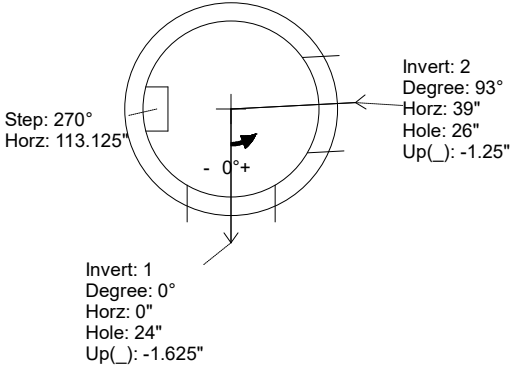
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 43" Height (Ext): 49"	Weight (Net): 3804 lb Volume (Net): 0.97cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:40 PM		Tech: Jared - F PC: E. Bradley				
Structure ID: MH-01											
P1 MH048BAVF		MH BASE Custom Ht T/n									
P3) 24" - CASTING HEIGHT - 8.85" P2) 48" - ECC CONE w/ 24" HOLE F/G - 36" P1) 48" - MH BASE Custom Ht T/n - 56" 1) CASTING - NEENAH R-1785 (F/C) 1) 48" - Conseal CS-102 1.00" 1) Hole - 24 1) Hole - 26 8) MH Step ML-10-TDS-NCR - 10"					0 lb 3000 lb 4812 lb 294 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 8106 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 .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 605.38' Rim to Invert: 8.42' Slack: 0.19' Sump: 0" Step Position: 270											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	596.96'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"	
Invert 2	597.06'	93°	47.125"	18" RCP B WALL	23"	Hole 26	26"	27.476"	-1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

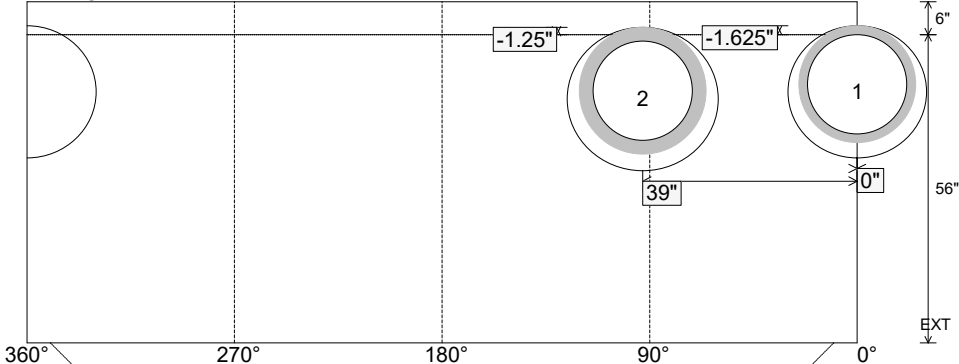
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 56" Height (Ext): 62"	Weight (Net): 4812 lb Volume (Net): 1.23cu.yd
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Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2

Job Location: Danville, KY

Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 1:48:09 PM

Tech: J. Horsley

PC: C. Goff



Structure ID: MH A8

P1 MH060BAEVF

MH BASE w/FLANGE (08F/07EF) w/Coating T/n

P5) 24" - CASTING HEIGHT - 7"

P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"

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

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 - 70"

1) JOINT WRAP - 12" WD x 060" MAC WRAP

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) SPECIAL EXTERNAL COATING - Carboline 300M

1) SECONDARY POUR - Extended Flange

2) JOINT WRAP - 12" WD x 048" MAC WRAP

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

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

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

2) A-Lok - 1040

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

308.6 SqFt) Carboline Bitumastic 300M [EXT]

0 lb

3116 lb

5030 lb

1928 lb

10274 lb

0 lb

2692 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

2 lb

0 lb

0 lb

Structure Total: 23043 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. INVERT CHANNEL REQUIRED

5. CARBOLINE 300M EXTERIOR COATING REQUIRED

6. STEPS AT 260 DEGREES

7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

Rim: 905'

Rim to Invert: 16.985'

Slack: 2.035"

Sump: 2.215"

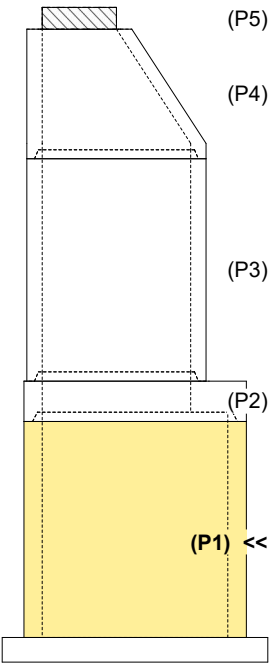
Step Position: 260°

FIRST POUR (BASE): 8,924 LBS

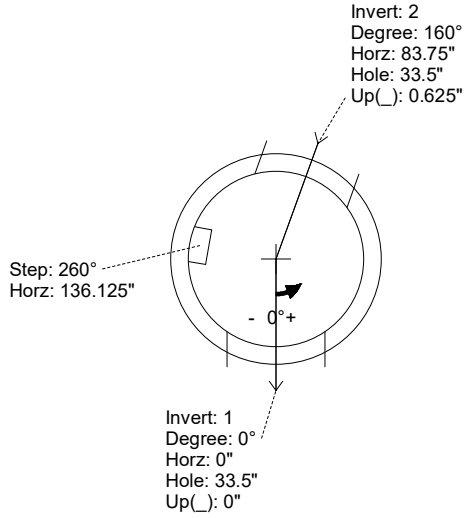
SECOND POUR (FLANGE): 1,350 LBS

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.015'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	888.065'	160°	100.5"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

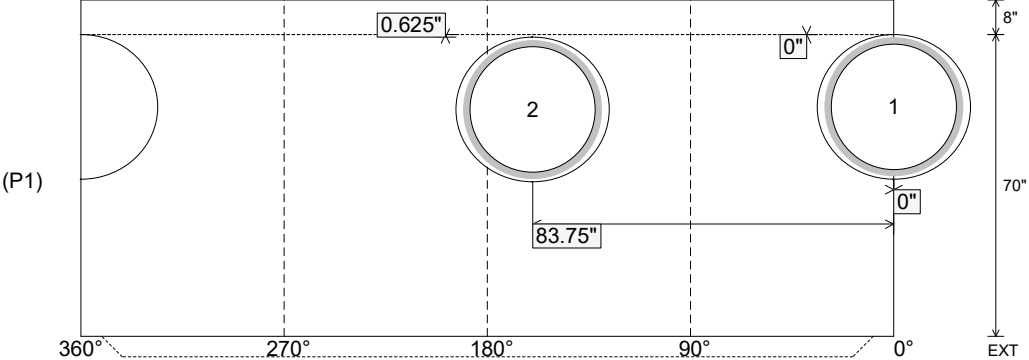
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



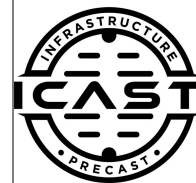
Coating (Int): Coating (Ext): Carboline Bitumastic 300M

Seam Up: Tongue Seam Dn: n/a

Wall Thickness: 6" Floor Height: 8"

Height (Int): 70" Height (Ext): 78"

Weight (Net): 10274 lb Volume (Net): 2.62cu.yd



Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 70" Height (Ext): 78"	Weight (Net): 10274 lb Volume (Net): 2.62cu.yd
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Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2

Job Location: Danville, KY

Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 1:48:09 PM

Tech: J. Horsley

PC: C. Goff



Structure ID: MH A8

P1 MH060BAEVF

MH BASE w/FLANGE (08F/07EF) w/Coating T/n

P5) 24" - CASTING HEIGHT - 7"

P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"

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

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 - 70"

1) JOINT WRAP - 12" WD x 060" MAC WRAP

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) SPECIAL EXTERNAL COATING - Carboline 300M

1) SECONDARY POUR - Extended Flange

2) JOINT WRAP - 12" WD x 048" MAC WRAP

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

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

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

2) A-Lok - 1040

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

308.6 SqFt) Carboline Bitumastic 300M [EXT]

0 lb

3116 lb

5030 lb

1928 lb

10274 lb

0 lb

2692 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

2 lb

0 lb

0 lb

Structure Total: 23043 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. INVERT CHANNEL REQUIRED

5. CARBOLINE 300M EXTERIOR COATING REQUIRED

6. STEPS AT 260 DEGREES

7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

Rim: 905'

Rim to Invert: 16.985'

Slack: 2.035"

Sump: 2.215"

Step Position: 260°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.015'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	888.065'	160°	100.5"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P5)

(P4)

(P3)

(P2)

(P1) <<

Invert: 2

Degree: 160°

Horz: 83.75"

Hole: 33.5"

Up(): 0.625"

Step: 260°

Horz: 136.125"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 33.5"

Up(): 0"

+ 0°-

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

INVERT CHANNEL

DRAWING

INSIDE WALL DIMENSIONS

0.625"

0"

83.75"

0"

0"

2

1

360°

270°

180°

90°

0°

8"

70"

EXT

Coating (Int):

Coating (Ext): Carboline Bitumastic 300M

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

Height (Int): 70"

Height (Ext): 78"

Weight (Net): 10274 lb

Volume (Net): 2.62cu.yd

Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

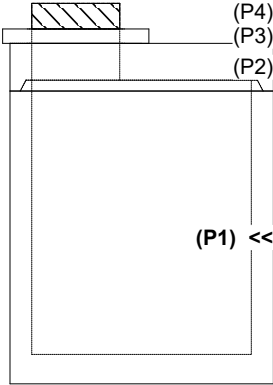
Structure:

MH A8

Note:

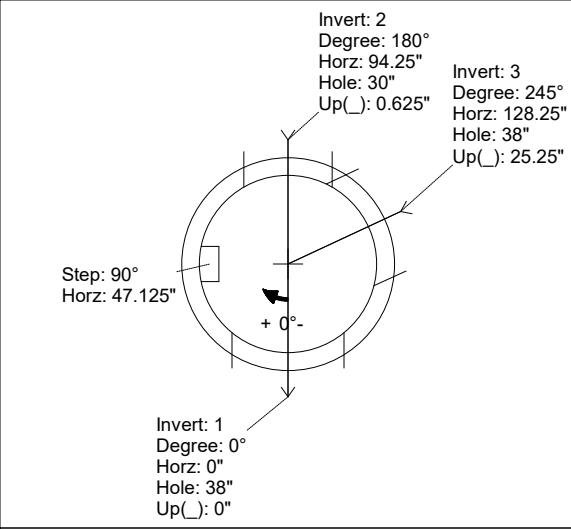
This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-4508 - Georgetown Commons Target Job Location: Georgetown, KY Contractor: Winwater Hartford KY Co.					Plant: 100 5/28/2026 11:25:34 AM		Tech: Jared - F PC: A. Chambers				
Structure ID: 14 (17)											
P1 MH060BA72		MH BASE T/n									
P4) 24" - CASTING HEIGHT - 7" P3) 24" - GRADE RING F/F - 4" P2) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P1) 60" - MH BASE T/n - 72" 1) CASTING - HOE MC-375 F/C Storm 1) 60" - Conseal CS-102 1.00" 2) Hole - 38 1) Hole - 30 6) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2869 lb 8660 lb 271 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. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE MC-375 F/C STORM). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.				
Rim: 871.55' Rim to Invert: 7.95' Slack: 1.95' Sump: 2.55' Step Position: 90°					Structure Total: 12070 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	863.6'	0°	0"	30" HDPE	35.1"	Hole 38	38"	41.151"	0"	0"	
Invert 2	863.6'	180°	113.125"	24" HDPE	27.8"	Hole 30	30"	31.416"	0.625"	0"	
Invert 3	865.7'	245°	154"	30" HDPE	35.1"	Hole 38	38"	41.151"	25.25"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 94.25"
Hole: 30"
Up(): 0.625"

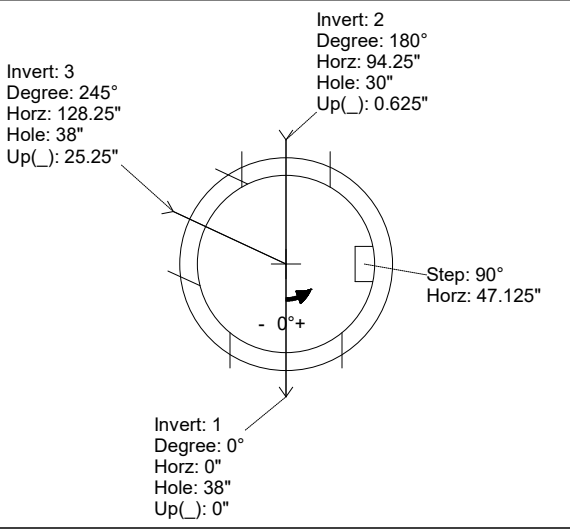
Invert: 3
Degree: 245°
Horz: 128.25"
Hole: 38"
Up(): 25.25"

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

Step: 90°
Horz: 47.125"

+ 0°-

UPSIDE-DOWN VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 94.25"
Hole: 30"
Up(): 0.625"

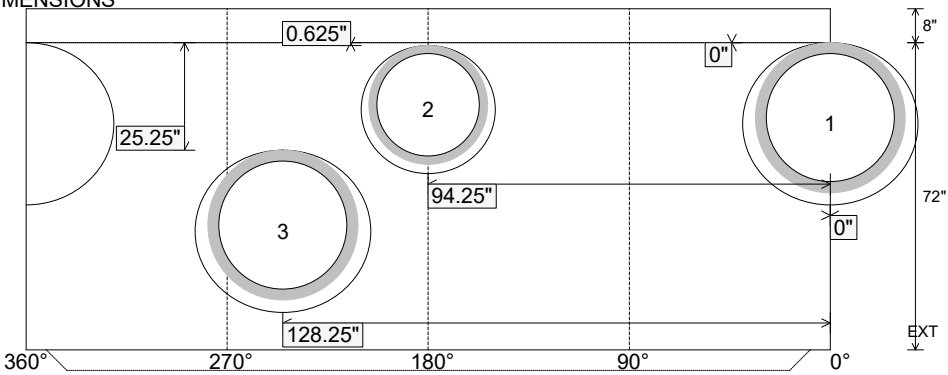
Invert: 3
Degree: 245°
Horz: 128.25"
Hole: 38"
Up(): 25.25"

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

Step: 90°
Horz: 47.125"

- 0°+

INSIDE WALL DIMENSIONS



0.625"

25.25"

94.25"

128.25"

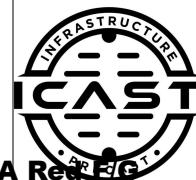
8"

72"

EXT

360° 270° 180° 90° 0°

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 72" Height (Ext): 80"	Weight (Net): 8660 lb Volume (Net): 2.21cu.yd
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Weight (Net): 1993 lb
Volume (Net): 0.51cu.yd

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192)

Job Location: Parkersburg, WV

Contractor: Triton Construction

Plant: 100

3/26/2026 1:42:33 PM

Tech: Jared - F

PC: E. Bradley



Structure ID: MH-06

P2 MH060RS24

MH RISER T/G

P4) 24" - CASTING HEIGHT - 8.85"

P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"

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

P1) 60" - MH BASE Custom Ht T/n - 55"

1) CASTING - NEENAH R-1785 (F/C)

2) 60" - Conseal CS-102 1.00"

2) Hole - 38

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

0 lb

2869 lb

2505 lb

7255 lb

294 lb

0 lb

0 lb

0 lb

12923 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: 602.48'

Rim to Invert: 8.42'

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										

(P4)

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

Step: 270°

Horz: 141.375"

+ 0°-

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

(P2)

EXT

24"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 6"

Floor Height: 0"

Height (Int): 24"

Height (Ext): 24"

Weight (Net): 2505 lb

Volume (Net): 0.64cu.yd

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100		Tech: Jared - F			
					3/26/2026 1:41:44 PM		PC: E. Bradley			
Structure ID: MH-07										
P1 MH060BAVF			MH BASE Custom Ht T/n							
P4) 24" - CASTING HEIGHT - 8.85" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER T/G - 24" P1) 60" - MH BASE Custom Ht T/n - 59" 1) CASTING - NEENAH R-1785 (F/C) 2) 60" - Conseal CS-102 1.00" 1) Hole - 40 1) Hole - 38 7) MH Step ML-10-TDS-NCR - 10"					0 lb 2869 lb 2505 lb 7601 lb 294 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 13269 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: 602.3' Rim to Invert: 8.8' Slack: 0.75" Sump: 0" Step Position: 180										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	593.5'	0°	0"	30" RCP B WALL	37"	Hole 40	40"	43.784"	-3.5"	0"
Invert 2	593.62'	263°	165.25"	30" HDPE	35.1"	Hole 38	38"	41.151"	-1.125"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

Step: 180°
Horz: 94.25"

Invert: 2
Degree: 263°
Horz: 137.75"
Hole: 38"
Up(): -1.125"

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

UPSIDE-DOWN VIEW (int. dimensions)

Step: 180°
Horz: 94.25"

Invert: 2
Degree: 263°
Horz: 137.75"
Hole: 38"
Up(): -1.125"

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

INSIDE WALL DIMENSIONS

(P1)

Dimensions: 137.75", 0", -3.5", -1.125", 59", 8", 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): 59" Height (Ext): 67"	Weight (Net): 7601 lb Volume (Net): 1.94cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
Job Location: Fort Mitchell, KY 41017
Contractor: Lykins Contracting

Plant: 100

3/27/2026 11:40:30 AM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301556.5

P2 MH060TS15-48ECC

MH Transition Slab 48" Hole T/G

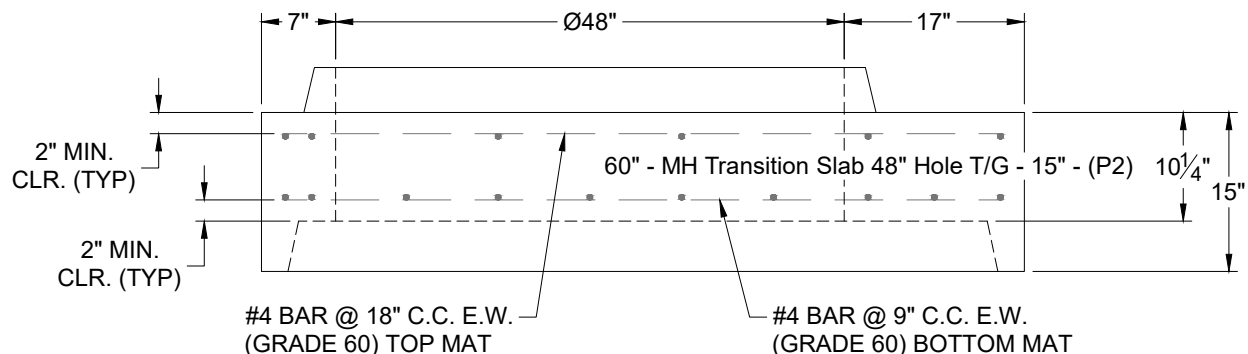
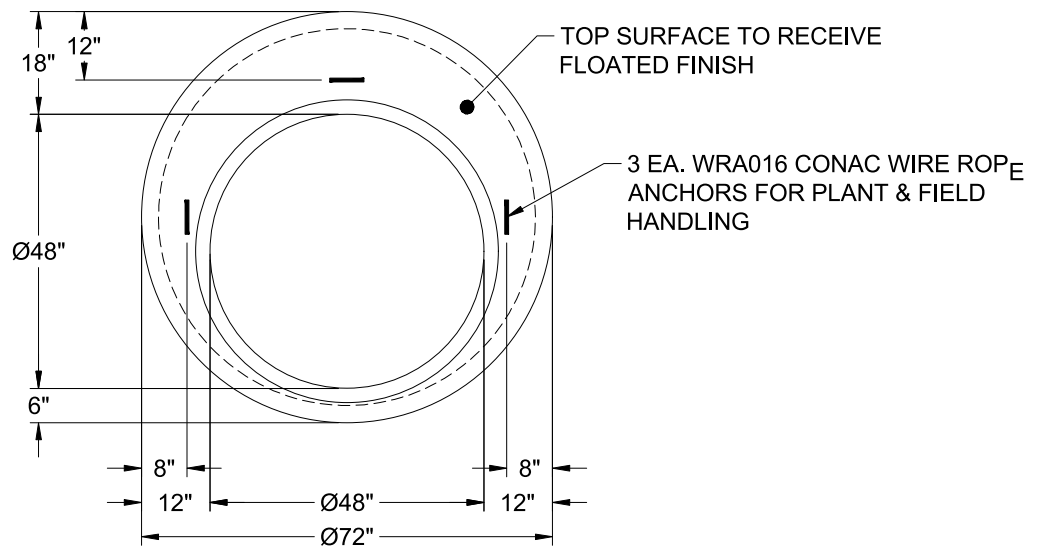
P6) 24" - CASTING HEIGHT - 7"
P5) 48" - CON CONE w/24" HOLE F/G - 36"
P4) 48" - MH RISER T/G - 72"
P3) 48" - MH RISER T/G - 72"
P2) 60" - MH Transition Slab 48" Hole T/G - 15"
P1) 60" - MH BASE (12"F) Custom Ht T/n - 72"
1) 60" - MH INVERT CHANNEL - FULL HEIGHT
1) 60" - Conseal CS-102 1.00" (Double)
3) 48" - Conseal CS-102 1.00" (Double)
2) A-Lok - 1235
21) MH Step ML-10-TDS-NCR - 10"

0 lb
2252 lb
5030 lb
5030 lb
2204 lb
10262 lb
2692 lb
0 lb
0 lb
2 lb
0 lb

Structure Total: 27472 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. 7" CASTING SUPPLIED BY OTHERS
5. LIFTERS: 3 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

Weight (Net): 2204 lb
Volume (Net): 0.56cu.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 10:56:54 AM

PC: E. Bradley



Structure ID: Lift Station

P2 MH072RS48X

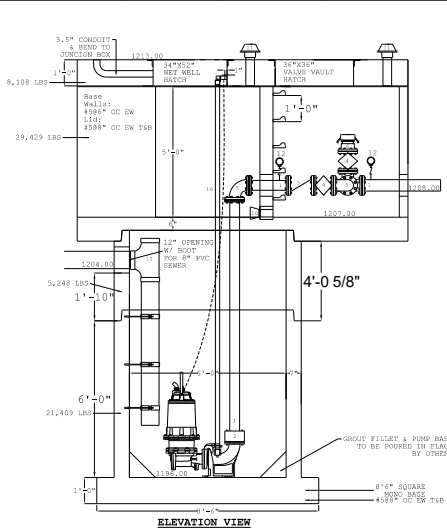
MH RISER w/XYPEX

- 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)

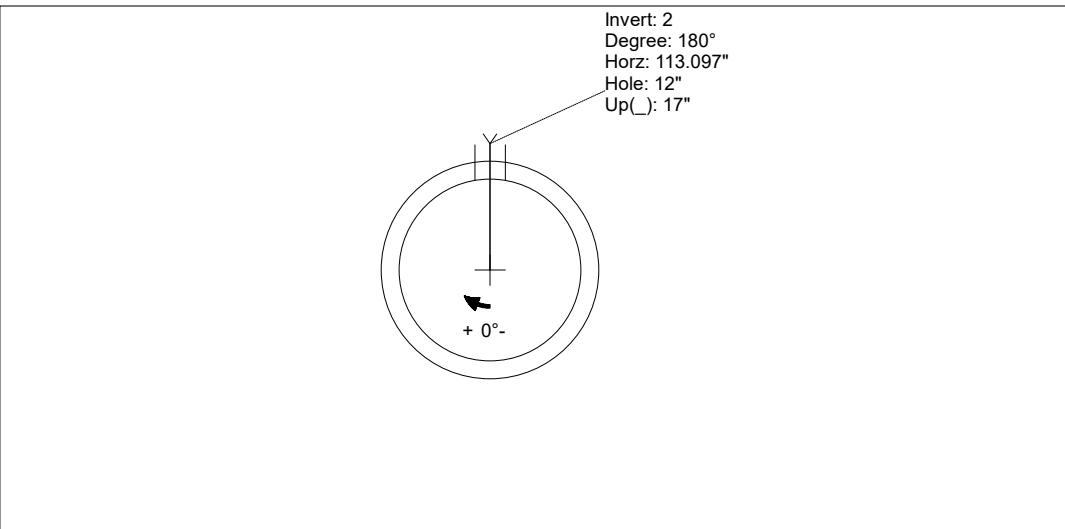
- 0 lb
- 8108 lb
- 29399 lb
- 6931 lb
- 20973 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 46 lb
- 46 lb
- 0 lb
- 0 lb

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 (As .37) #5 BARS AT 10" C.C.E.W.

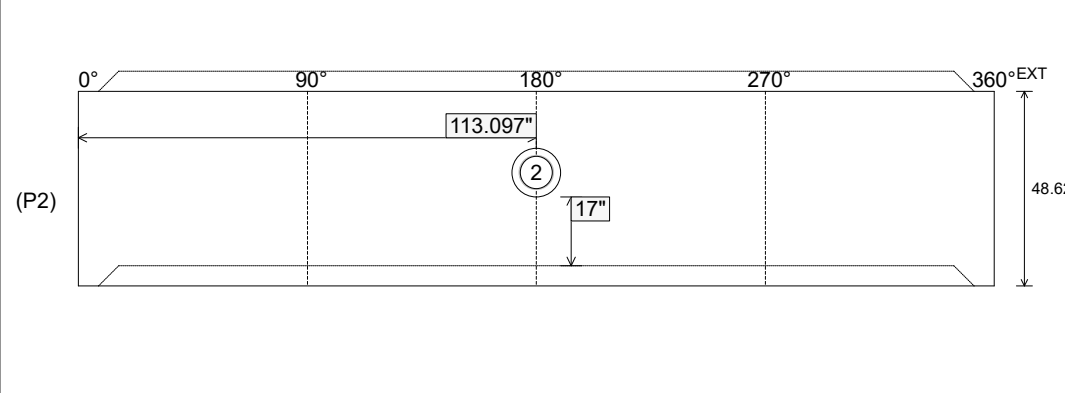
1) Rim 36" x 36" - Combined Lift Station Top Slab Custom w/Xypex - 12"	1) Hole - 8	1) PSX - 12-08 NYLO	Angle	Ext (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
346.82 Sq Ft) Carboline Bitumastic 300M [INT]	488.26 Sq Ft) Carboline Bitumastic 300M [EXT]										
Invert 2	1204'	180°	135.088"	8" PVC SDR35	Structure Total: 48.625"	PSX 12-08 NYLO	12"	12.056"	17"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Carboline Bitumastic 300M Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 7" Floor Height: 0"	Height (Int): 48.625" Height (Ext): 48.625"	Weight (Net): 6931 lb Volume (Net): 1.77cu.yd
--	------------------------------------	--	--	--

Job Name: 25-4279 - KYTC Christian Co (251031)
Job Location: Hopkinsville, KY
Contractor: CITCO Water

Plant: 100

5/11/2026 6:35:23 PM

Tech: Jared- F

PC: C. Goff



Structure ID: WW

P4 MH072LD15SCDARED

MH FLAT TOP w/42"x42" Hatch w/ConBlock-CDA Red

- P4) 72" - MH FLAT TOP w/42"x42" Hatch w/ConBlock-CDA Red - 15"
P3) 72" - MH RISER w/ConBlock-CDA Red - 72"
P2) 72" - MH RISER Custom Ht. w/ConBlock-CDA Red - 75"
P1) 72" - MH BASE EF Cust. Ht. 8" F (7" EF = 100" OD) w/ ConBlock CDA RED - 54"
1) ADMIXTURE CONBLOCK CDA RED
1) JOINT WRAP - 12" WD x 072" MAC WRAP
1) SECONDARY POUR - EXT. FLANGE
3) 72" - Con Seal CS-231 1.00" (Double)
3) Hole - 4
2) Hole - 12

3774 lb
10473 lb
10800 lb
13144 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
38192 lb

Structure Total:

Structure Notes:

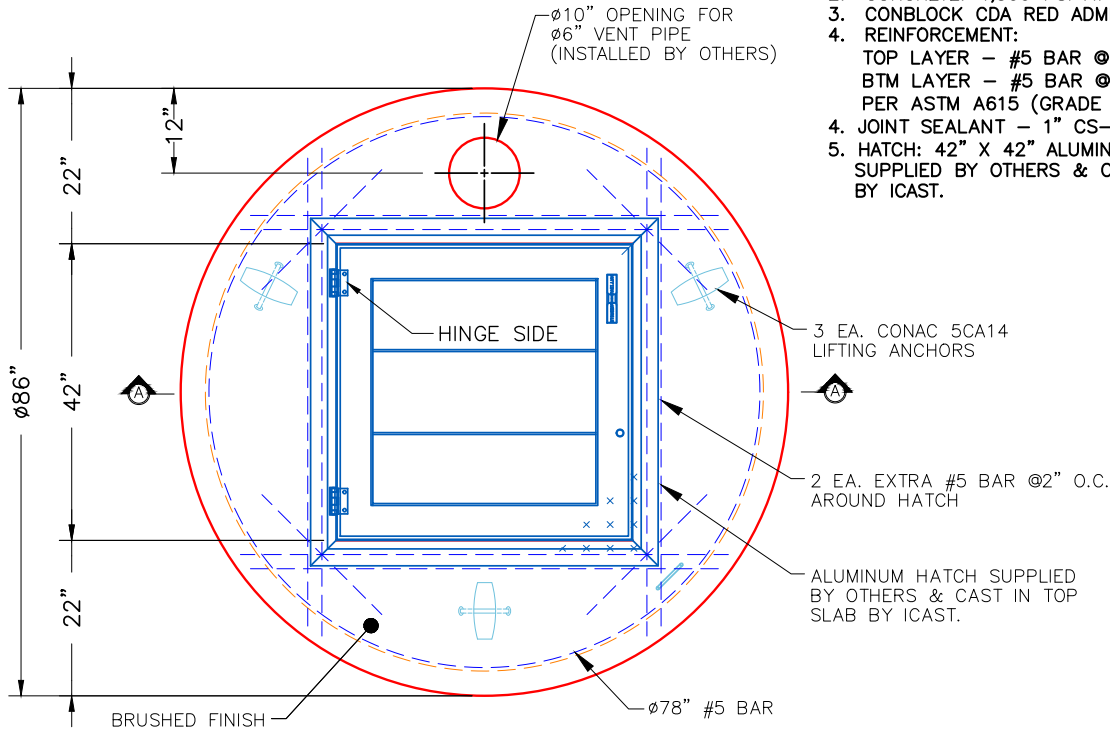
1. PER ASCTM C478 SPECIFICATIONS.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. ALUMINUM HATCH SUPPLIED BY OTHERS & CAST IN TOP SLAB BY ICAST. CENTERED LOCATION TO BE VERIFIED.

REINFORCING PER ASTM A615 (GRADE 60)

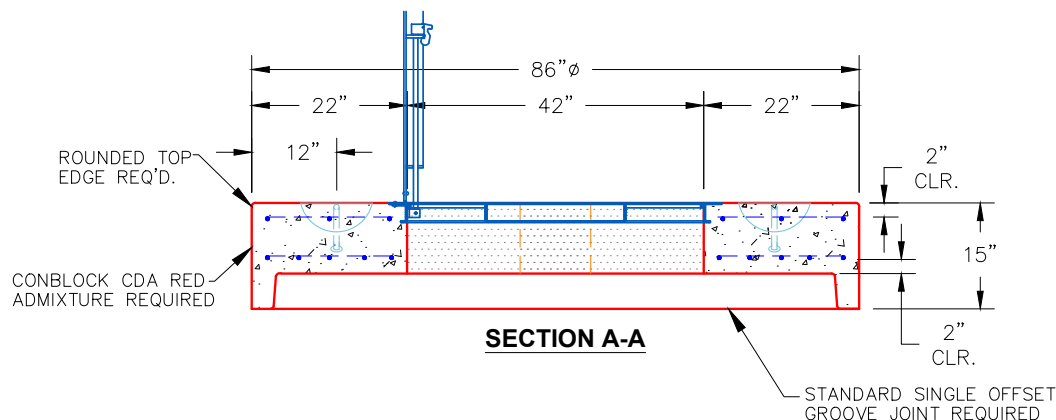
- TOP SLAB TOP LAYER= #5 BARS AT 12" C/C.
- TOP SLAB BTM LAYER= #5 BARS AT 6" C/C.
- RISER/WALLS (As .24)
- BTM SLAB - DBL MAT #4 BARS AT 12" C/C.

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,500 PSI AT 28 DAYS.
3. CONBLOCK CDA RED ADMIXTURE REQUIRED.
4. REINFORCEMENT:
TOP LAYER - #5 BAR @ 12" C.C.E.W.
BTM LAYER - #5 BAR @ 6" C.C.E.W.
PER ASTM A615 (GRADE 60).
4. JOINT SEALANT - 1" CS-231- DOUBLE
5. HATCH: 42" X 42" ALUMINUM HATCH SUPPLIED BY OTHERS & CAST IN TOP SLAB BY ICAST.



PLAN VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 7"

Height (Ext): 15"

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

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements

Job Location: Fort Mitchell, KY 41017

Contractor: Lykins Contracting

Plant: 100

3/20/2026 1:21:29 PM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301547

P1 MH072DPVF

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

P6) 24" - CASTING HEIGHT - 7"

P5) 24" - GRADE RING F/F - 4"

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

P3) 72" - MH Transition Slab 48" Hole T/G - 15"

P2) 72" - MH RISER w/DROP Custom Ht T/n - 72"

P1) 72" - MH BASE (10"F) w/DROP Custom Ht T/n - 72"

1) 72" - MH INVERT CHANNEL - FULL HEIGHT

1) SECONDARY POUR - Add Exterior Drop to Base (P1)

1) SECONDARY POUR - Add Exterior Drop to Riser (P2)

2) 72" - Conseal CS-102 1.00" (Double)

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

2) A-Lok - 1235

1) Drop Tee - 8" PVC

1) Drop Elbow - 8" PVC

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

0 lb

270 lb

2252 lb

3864 lb

10463 lb

17336 lb

5422 lb

3526 lb

3096 lb

0 lb

0 lb

2 lb

0 lb

0 lb

0 lb

Structure Total: 46231 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT:

- WALLS: PER ASTM A615 - DOUBLE MAT

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

4. INVERT CHANNEL REQUIRED

5. STEPS AT 270 DEGREES

6. 7" CASTING SUPPLIED BY OTHERS

7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST

First Pour (Base): 17,336 LBS

Second Pour (Drop): 3,526 LBS

Rim: 752.09'

Rim to Invert: 17'

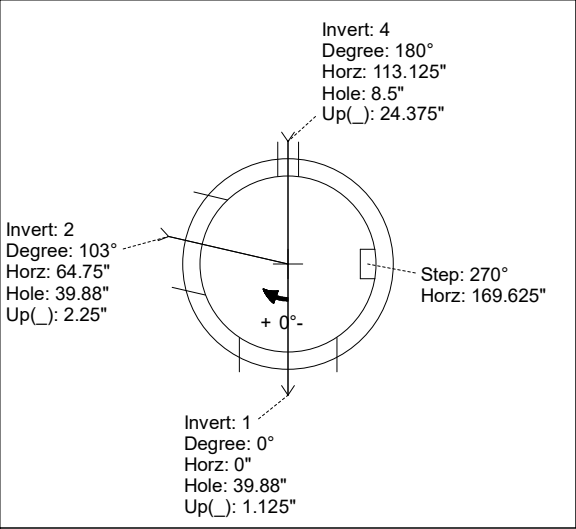
Slack: 1"

Sump: 3"

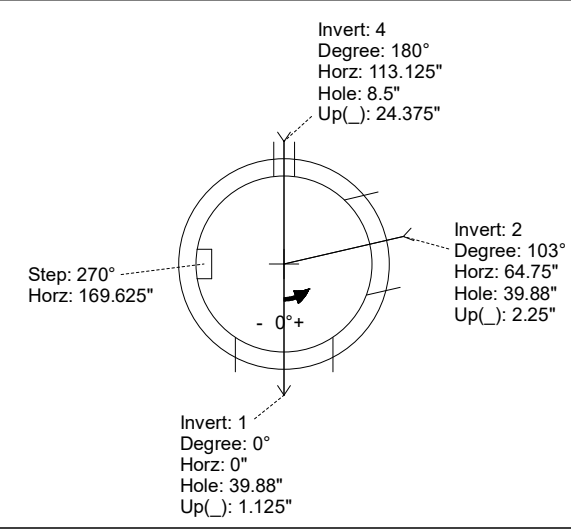
Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	735.09'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"
Invert 2	735.19'	103°	77.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"
Invert 3										
Invert 4	736.89'	180°	135.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.52"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

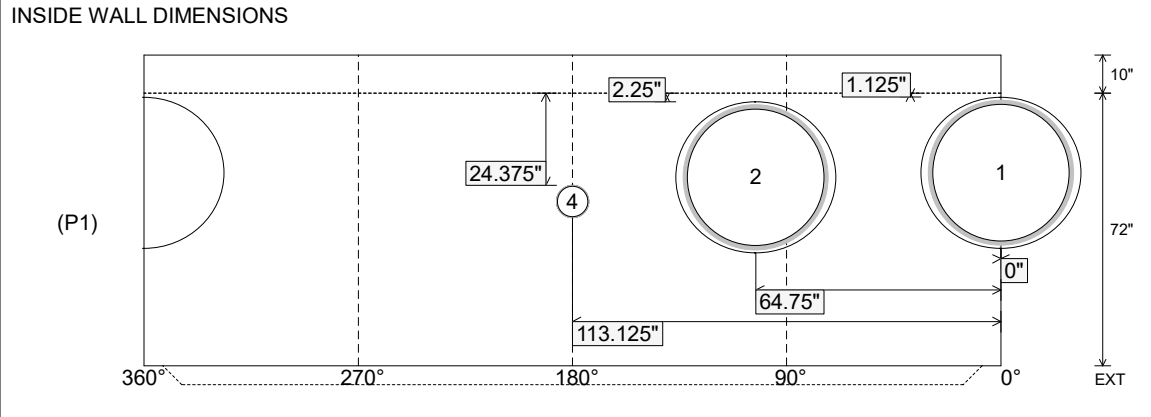
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 7"

Floor Height: 10"

Height (Int): 72"

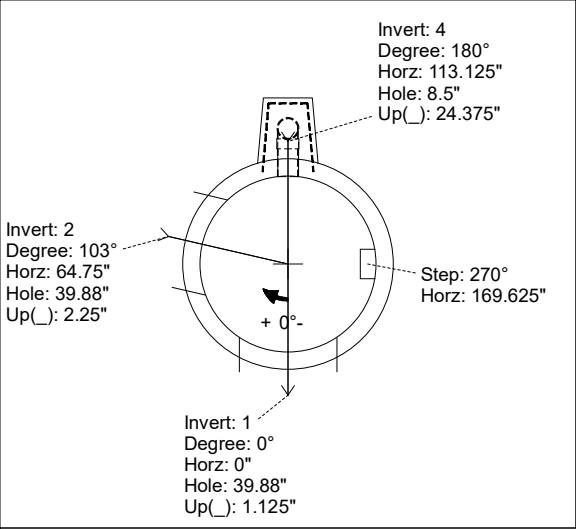
Height (Ext): 82"

Weight (Net): 17336 lb

Volume (Net): 4.43cu.yd

Weight (Net): 17336 lb
Volume (Net): 4.43cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100 3/20/2026 1:21:29 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301547											
P1 MH072DPVF		MH BASE (10"F) w/DROP Custom Ht T/n									
P6) 24" - CASTING HEIGHT - 7" P5) 24" - GRADE RING F/F - 4" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 72" - MH Transition Slab 48" Hole T/G - 15" P2) 72" - MH RISER w/DROP Custom Ht T/n - 72" P1) 72" - MH BASE (10"F) w/DROP Custom Ht T/n - 72" 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 72" - Conseal CS-102 1.00" (Double) 1) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 16) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2252 lb 3864 lb 10463 lb 17336 lb 5422 lb 3526 lb 3096 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 270 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS 7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST				
Rim: 752.09' Rim to Invert: 17' Slack: 1" Sump: 3" Step Position: 270°					Structure Total: 46231 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	735.09'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"	
Invert 2	735.19'	103°	77.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"	
Invert 3											
Invert 4	736.89'	180°	135.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.52"	24.375"	0"	
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

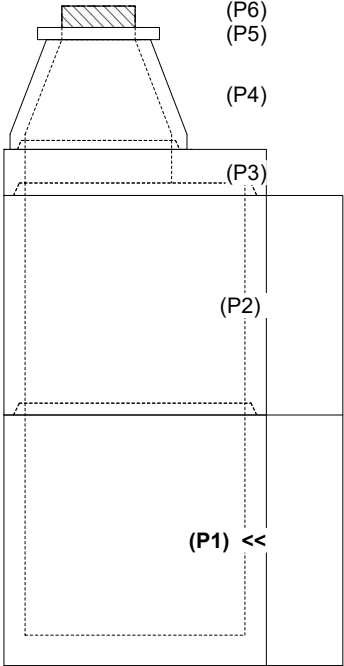


Diagram showing the vertical assembly of components P1 through P6.

INSIDE WALL DIMENSIONS

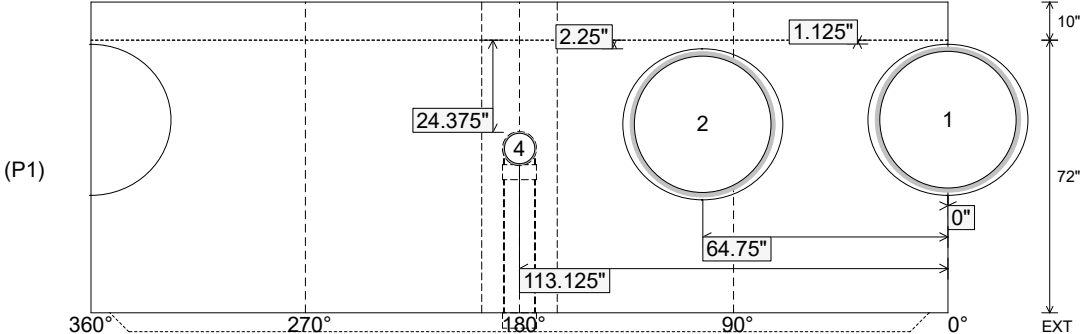


Diagram showing the inside wall dimensions and angles (360°, 270°, 180°, 90°, 0°) and various measurements (24.375", 113.125", 64.75", 2.25", 1.125", 10", 72", EXT).

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 7" Floor Height: 10"	Height (Int): 72" Height (Ext): 82"	Weight (Net): 17336 lb Volume (Net): 4.43cu.yd
----------------------------------	---------------------------------	---	--	---

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

Plant: Beaver Dam

6/1/2026 8:23:22 AM

Tech: J. Coppage

PC: C. Goff



Structure ID: MD-10

P1 MH084BAVF

MH BASE Custom Ht

- 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

- 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.

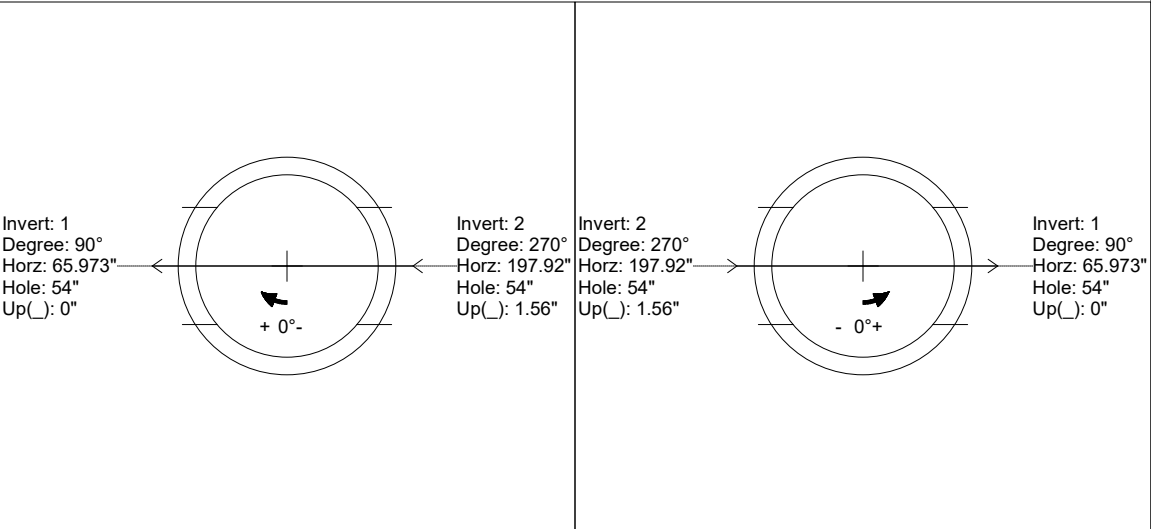
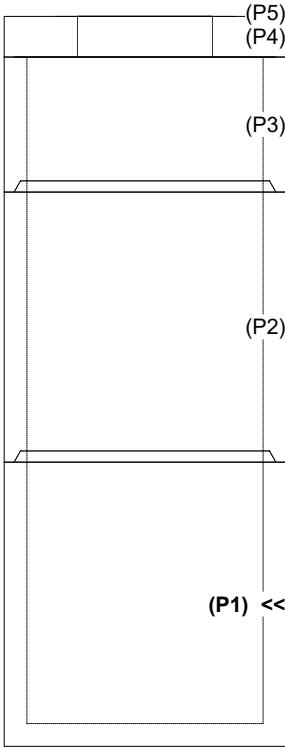
Structure Total: 55174 lb

Rim: 815.25' Rim to Invert: 20.6' Slack: 0.2' Sump: 4.5' Step Position:

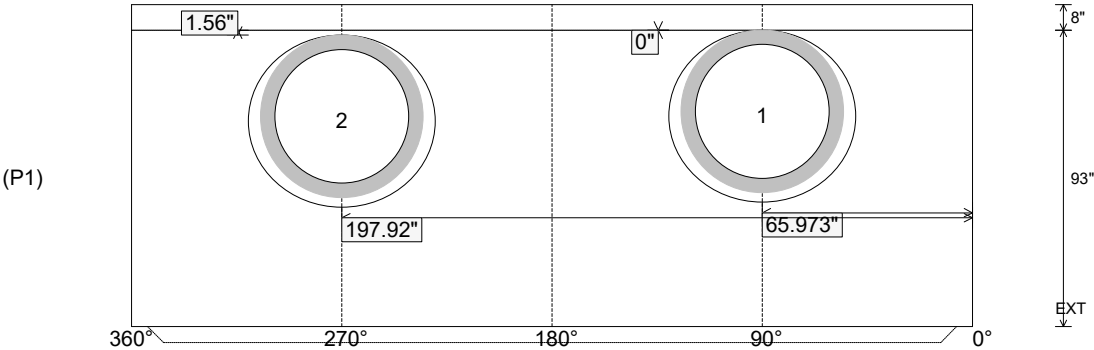
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	794.65'	90°	78.54"	42" RCP B WALL	51"	Hole 54	54"	58.651"	0"	0"
Invert 2	794.78'	270°	235.619"	42" RCP B WALL	51"	Hole 54	54"	58.651"	1.56"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 93"
Height (Ext): 101"

Weight (Net): 20023 lb
Volume (Net): 5.11cu.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

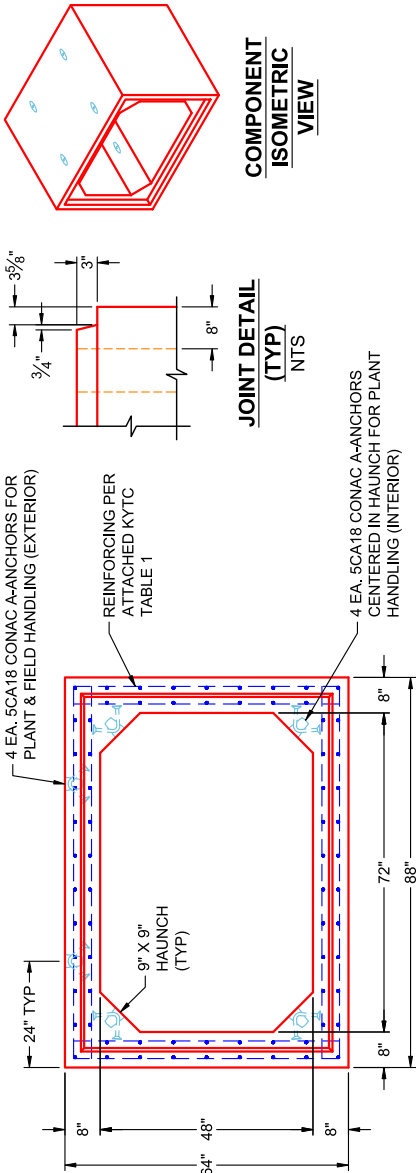
Tech: Jared - A
PC: A. Chambers



Structure ID: BC 6 x 4 (Sec G)

P1 BC048072-08WLF-9H

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

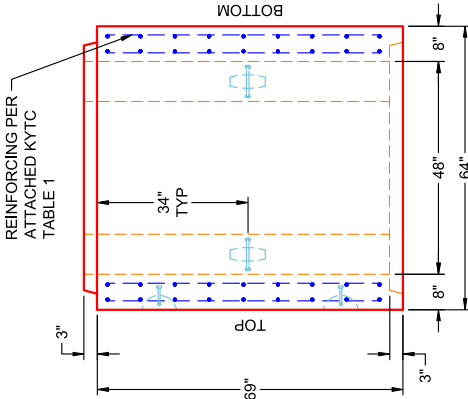


COMPONENT
ISOMETRIC
VIEW

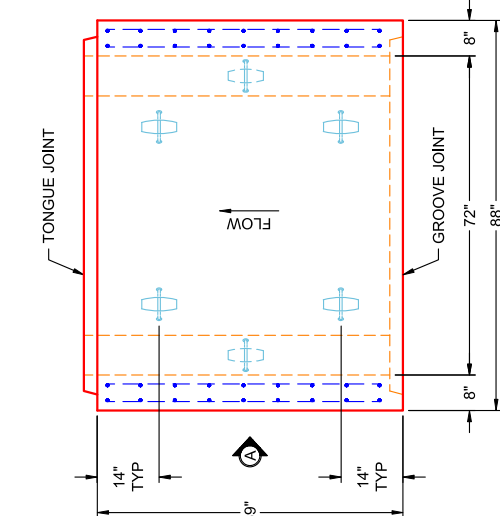
JOINT DETAIL
(TYP)
NTS

- 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)

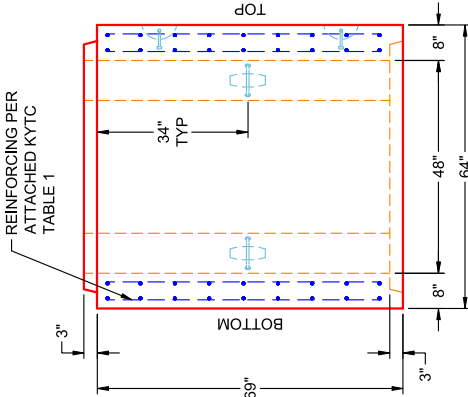
END VIEW
TYPICAL



VIEW B
SEC G
(UPRIGHT IN MOLD)



PLAN VIEW
SEC G
(UPRIGHT IN MOLD)



VIEW A
SEC G
(UPRIGHT IN MOLD)

PRODUCTION WORK ORDER



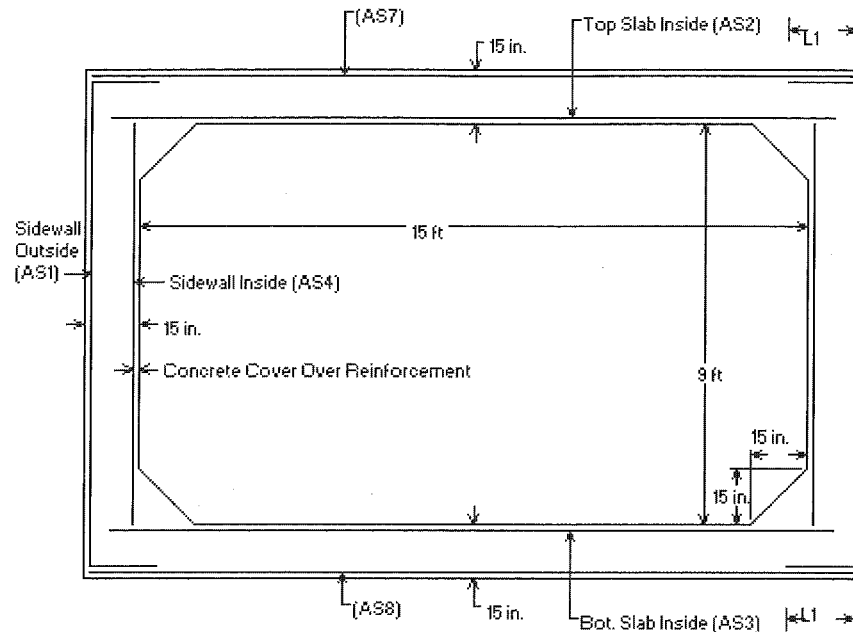
QUALITY CONTROL CHECKLIST

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

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

Notes:

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

KY Table 1

Precast Culvert KYHL-93 Design Table

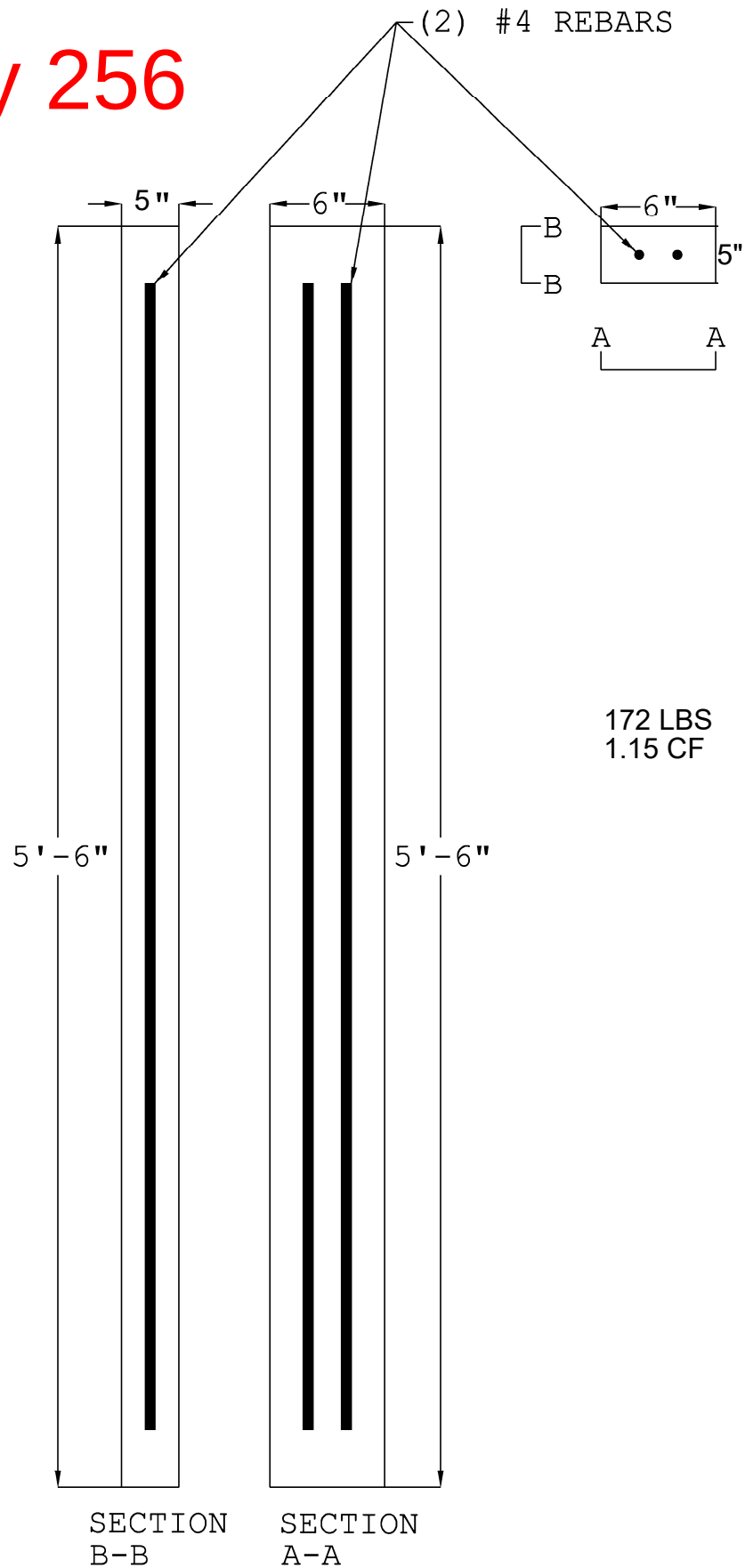
Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x4x7	0<2*	0.202	0.421	0.266	0.168	0.192	0.168	0.192	0.192
	2<3	0.251	0.368	0.288	0.168	0.168	0.168		
	3-5	0.19	0.271	0.24	0.168	0.168	0.168		
	10	0.168	0.228	0.234	0.168	0.168	0.168		
	15	0.216	0.306	0.313	0.168	0.168	0.168		
	20	0.275	0.391	0.398	0.168	0.168	0.168		
	25	0.338	0.479	0.487	0.168	0.168	0.168		
	30	0.404	0.571	0.579	0.168	0.168	0.168		
	35	0.473	0.667	0.675	0.168	0.168	0.168		
*top slab 8"									

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

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

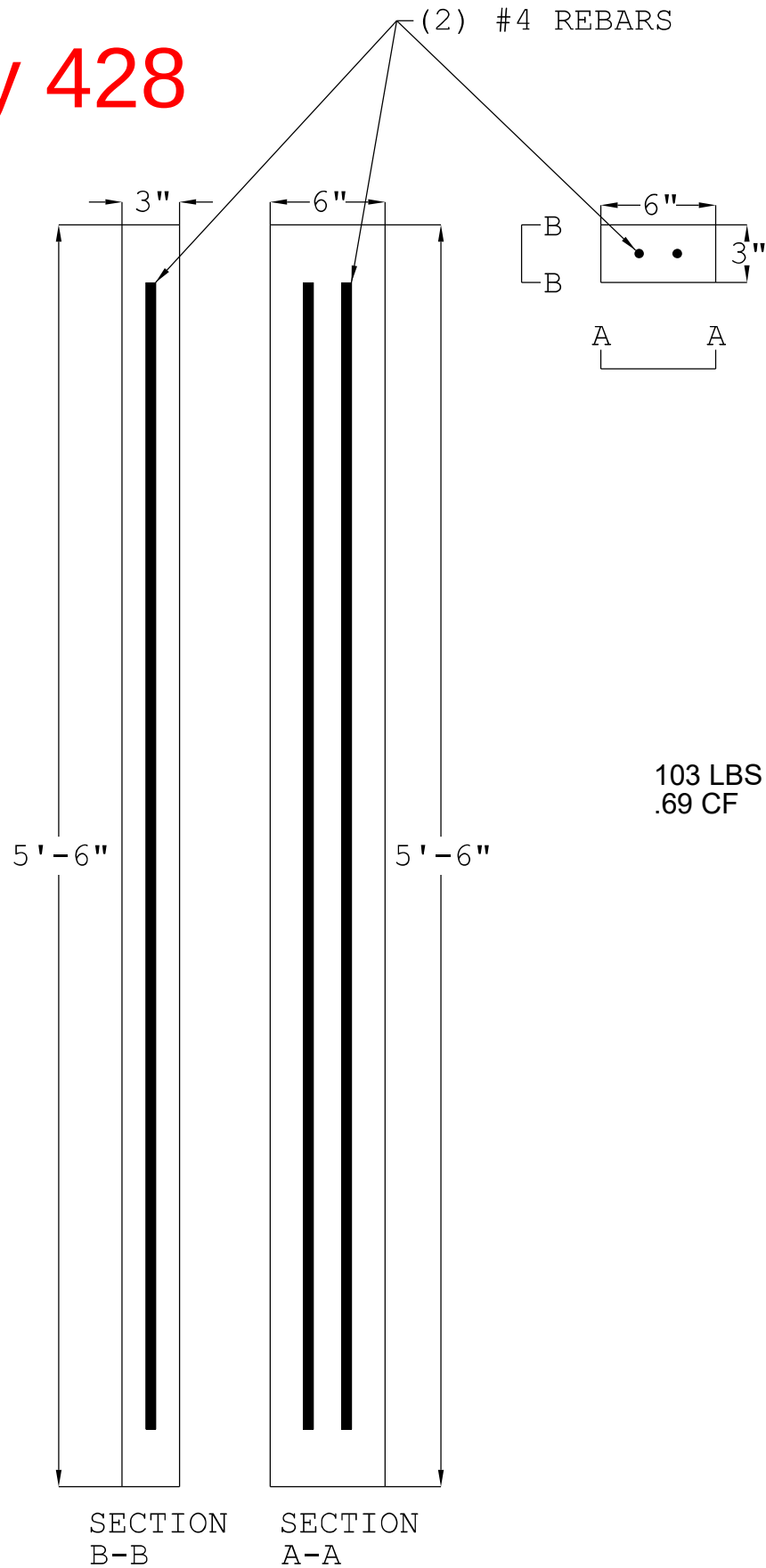
ALCOA CONCRETE LOGS

Quantity 256



ALCOA CONCRETE LOGS

Quantity 428



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

Plant: Beaver Dam

Tech: J. Coppage

6/1/2026 8:23:23 AM

PC: C. Goff



Structure ID: MD-12

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 - 42"
1) CASTING - JBS TYPE 39 TDOT GRATES (48" X 48")
1) Hole - 26

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.

0 lb
8709 lb
459 lb
0 lb

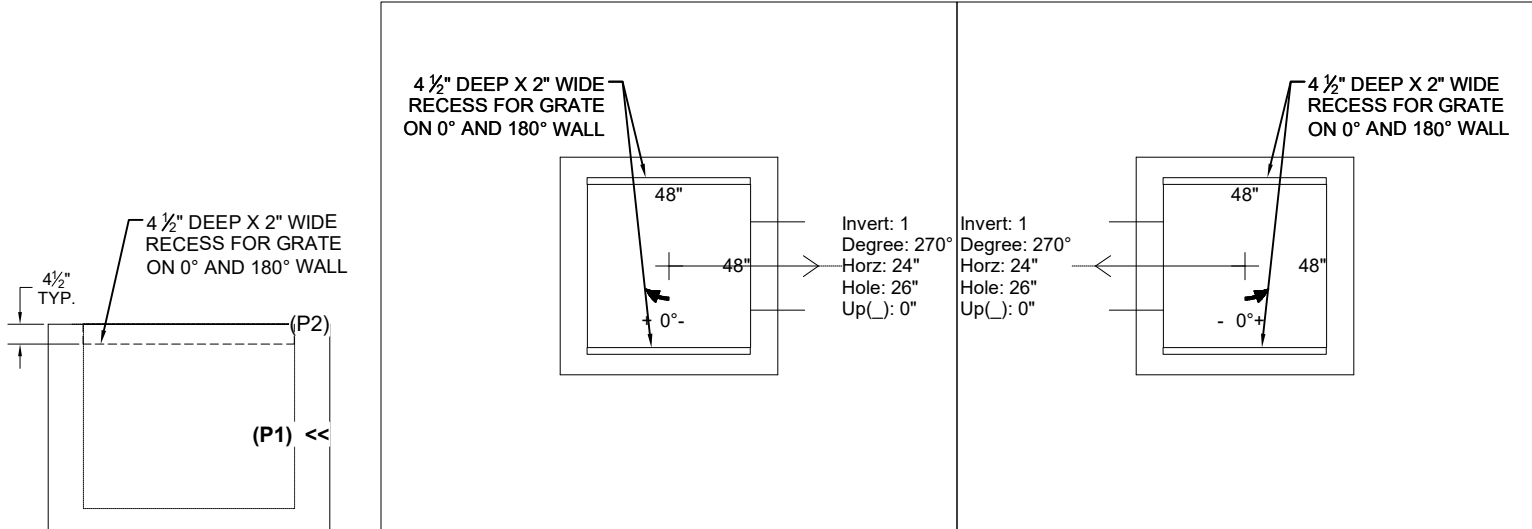
Structure Total: 9168 lb

Rim: 767.13' Rim to Invert: 3.29' Slack: -0.02" Sump: 2.5" Step Position:

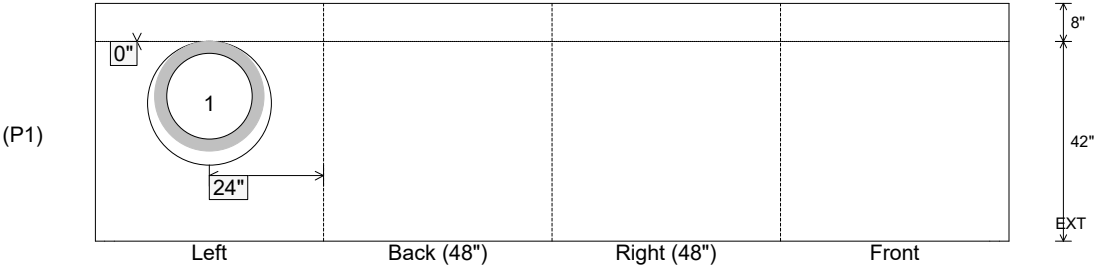
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	763.84'	270°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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"

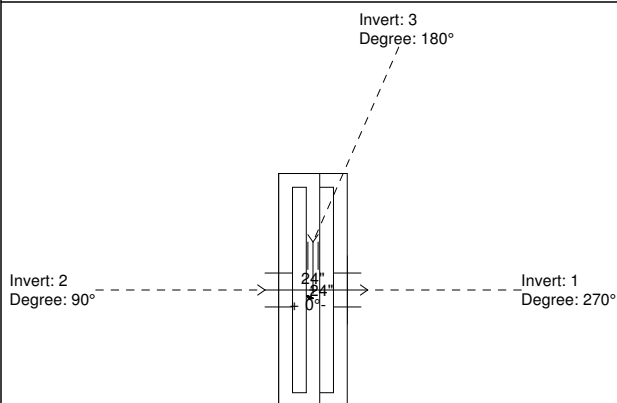
Height (Int): 42"
Height (Ext): 50"

Weight (Net): 8709 lb
Volume (Net): 2.22cu.yd

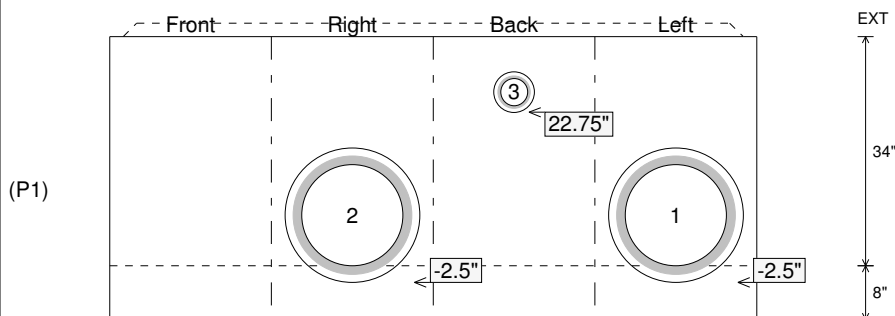
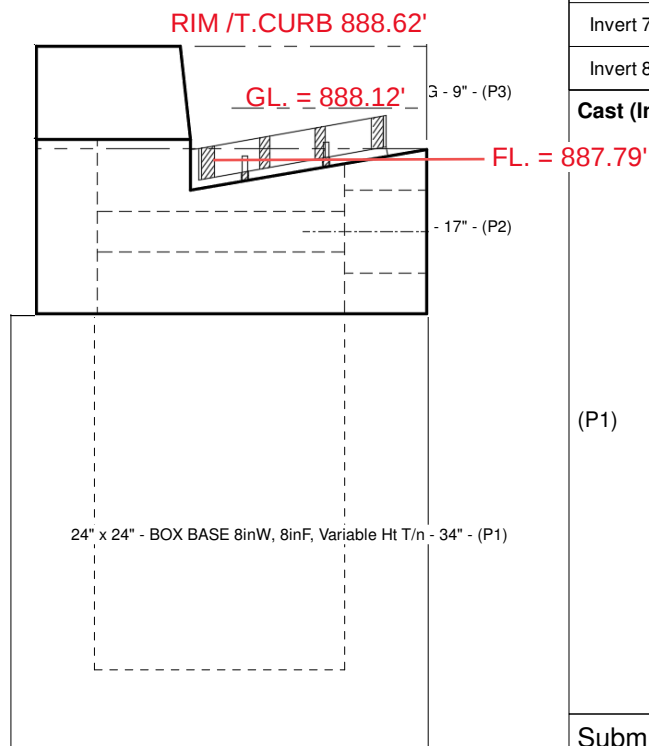


Floor (Bot): 882.933'
Overall Height: 5.667'
Slack: 0.24"

Structure Total: 8155 lb

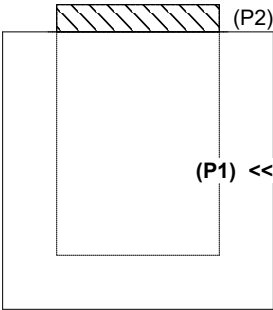


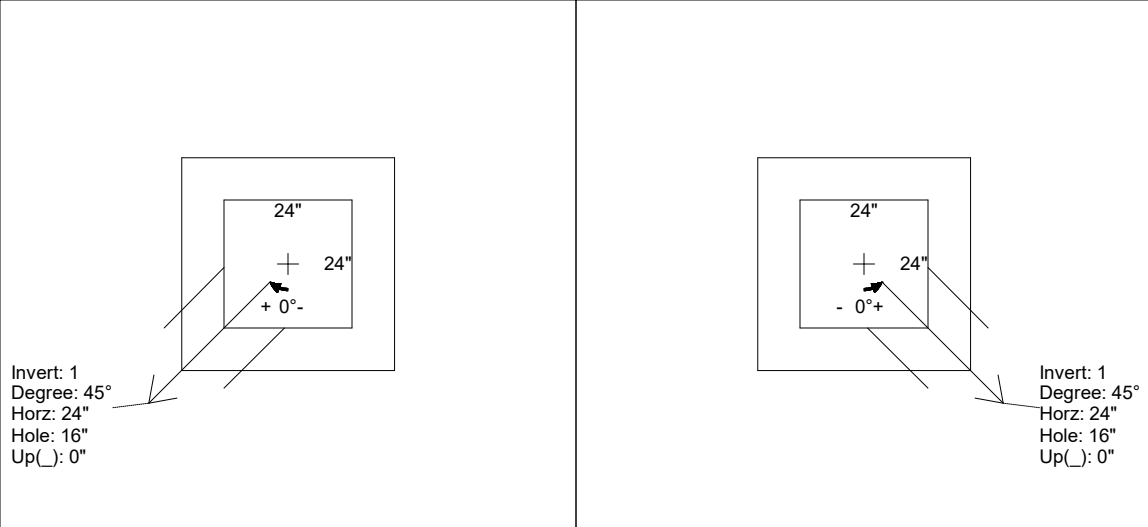
Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up ()	Ref
Rim	888.62'							
Reducer								
Invert 1	883.6'	270°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 2	883.6'	90°	15" HDPE	17.6"	20"	Hole 20	-2.5"	P1
Invert 3	885.58'	180°	4" HDPE (perf pipe)	4.8"	6"	Hole 6	22.75"	P1
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								

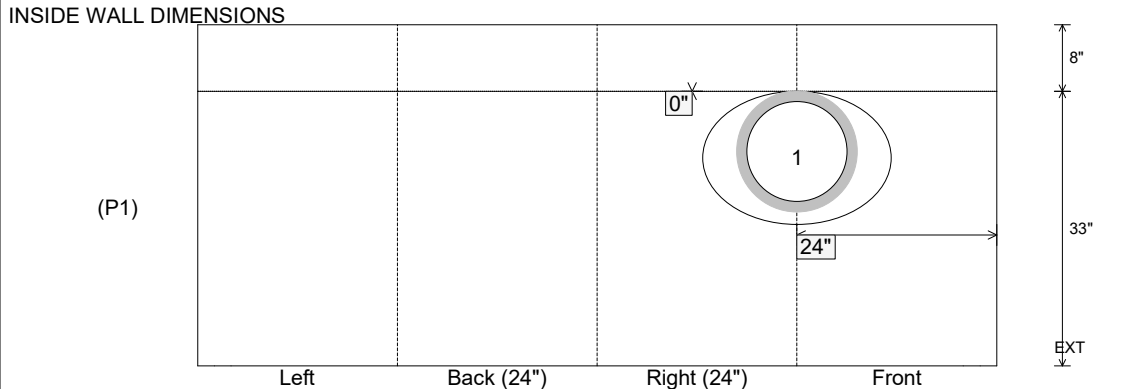
Cast (Int. Dim.) - Interior Dimensions

SUBMITTAL
APPROVED BY:

Job Name: 25-4508 - Georgetown Commons Target Job Location: Georgetown, KY Contractor: Winwater Hartford KY Co.				Plant: 100 5/28/2026 11:25:27 AM		Tech: Jared - F PC: A. Chambers				
Structure ID: 1 (4)										
P1 BX2424-08BAVF				BOX BASE 8inW, 8inF, Variable Ht F/n						
P2) 24" x 24" - CASTING HEIGHT - 4" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 33" 1) CASTING - HOE 280T F/G 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 16				0 lb 3719 lb 182 lb 0 lb 0 lb ----- 0 lb Structure Total: 3901 lb		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 280T F/G) REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.				
Rim: 871.5' Rim to Invert: 3' Slack: 0.25" Sump: 1.25" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	868.5'	45°	40"	12" HDPE	14.5"	Hole 16	16"	11.314", 11.314"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



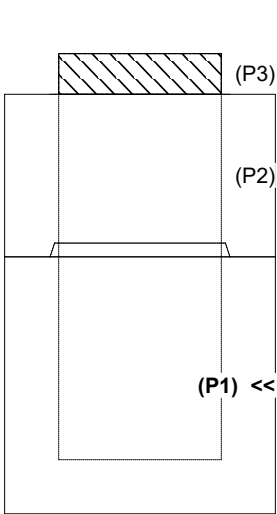




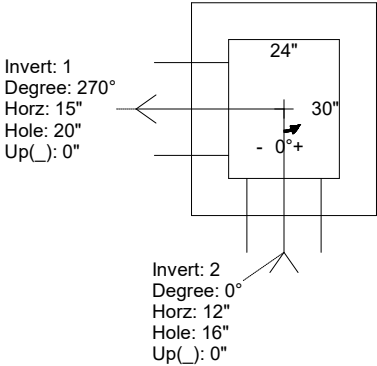
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 33" Height (Ext): 41"	Weight (Net): 3719 lb Volume (Net): 0.95cu.yd
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Job Name: 25-4508 - Georgetown Commons Target Job Location: Georgetown, KY Contractor: Winwater Hartford KY Co.					Plant: 100 5/28/2026 11:25:36 AM		Tech: Jared - F PC: A. Chambers			
Structure ID: 100 (23)										
P1 BX2430-08BA30 BOX BASE 8inW, 8inF T/n										
P3) 24" x 30" - CASTING HEIGHT - 6" P2) 24" x 30" - BOX RISER 8inW F/G - 24" P1) 24" x 30" - BOX BASE 8inW, 8inF T/n - 30" 1) CASTING - HOE 360 Set (F/G/H) 2) 24" x 30" - Conseal CS-102 1.00" 1) Hole - 20 1) Hole - 16					0 lb 2256 lb 3709 lb 362 lb 0 lb 0 lb 0 lb ----- Structure Total: 6326 lb		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 360 SET (F/G/H)). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 874.66' Rim to Invert: 4.91' Slack: 0.17' Sump: 1.25" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	869.75'	270°	23"	15" HDPE	17.6"	Hole 20	20"	20"	0"	0"
Invert 2	869.75'	0°	20"	12" HDPE	14.5"	Hole 16	16"	16"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

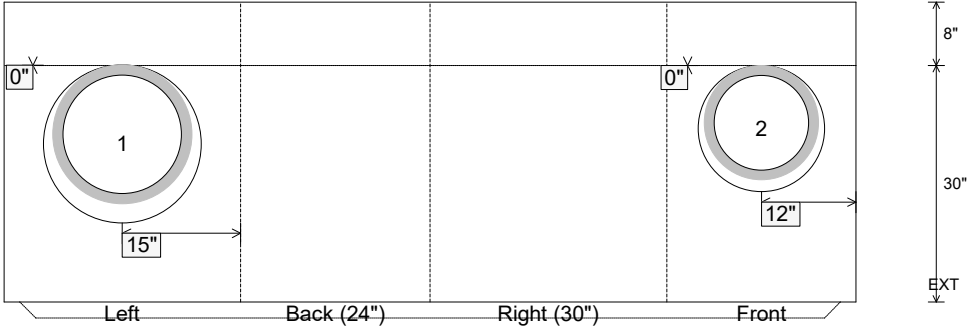
RIGHT-SIDE UP VIEW (int. dimensions)



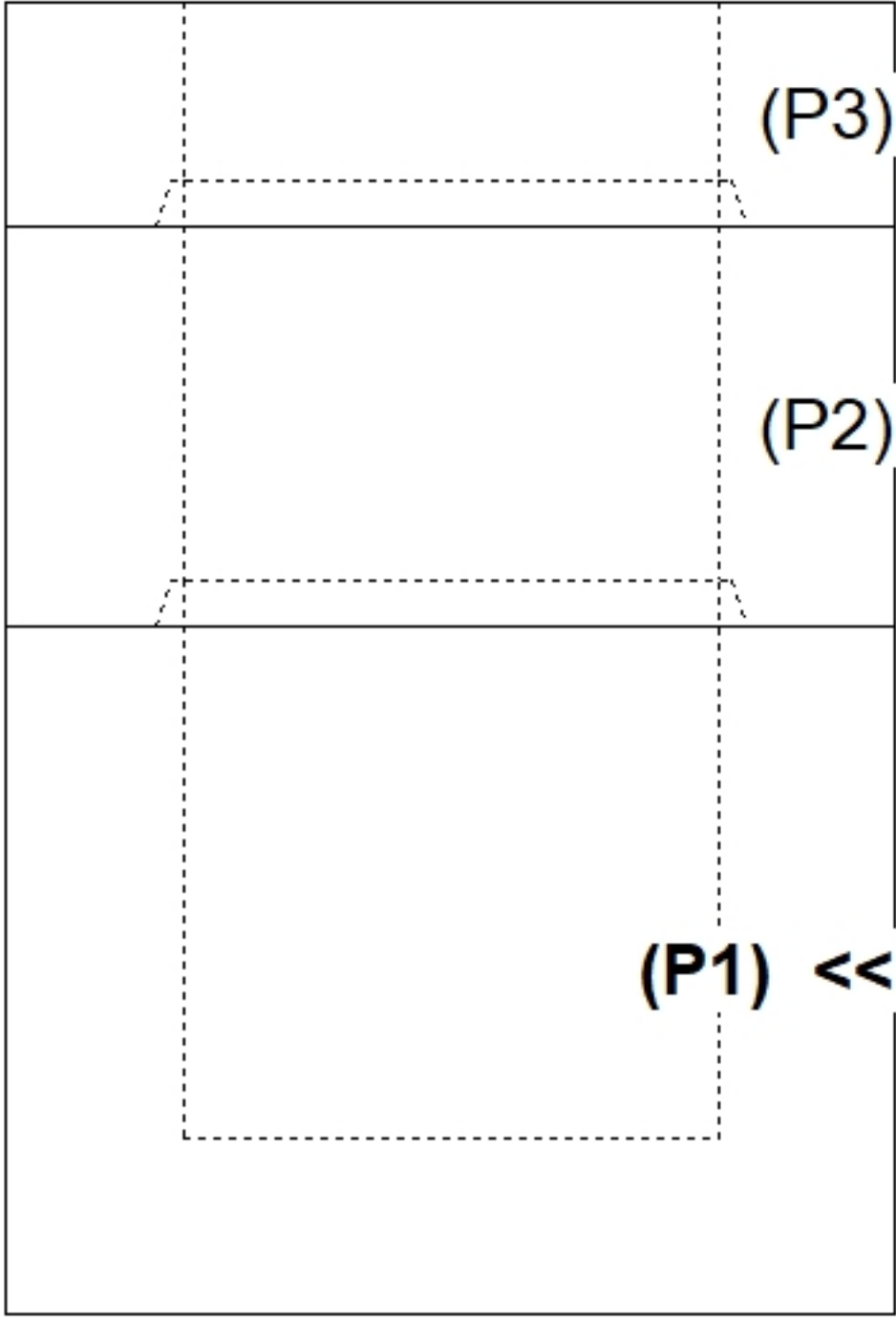
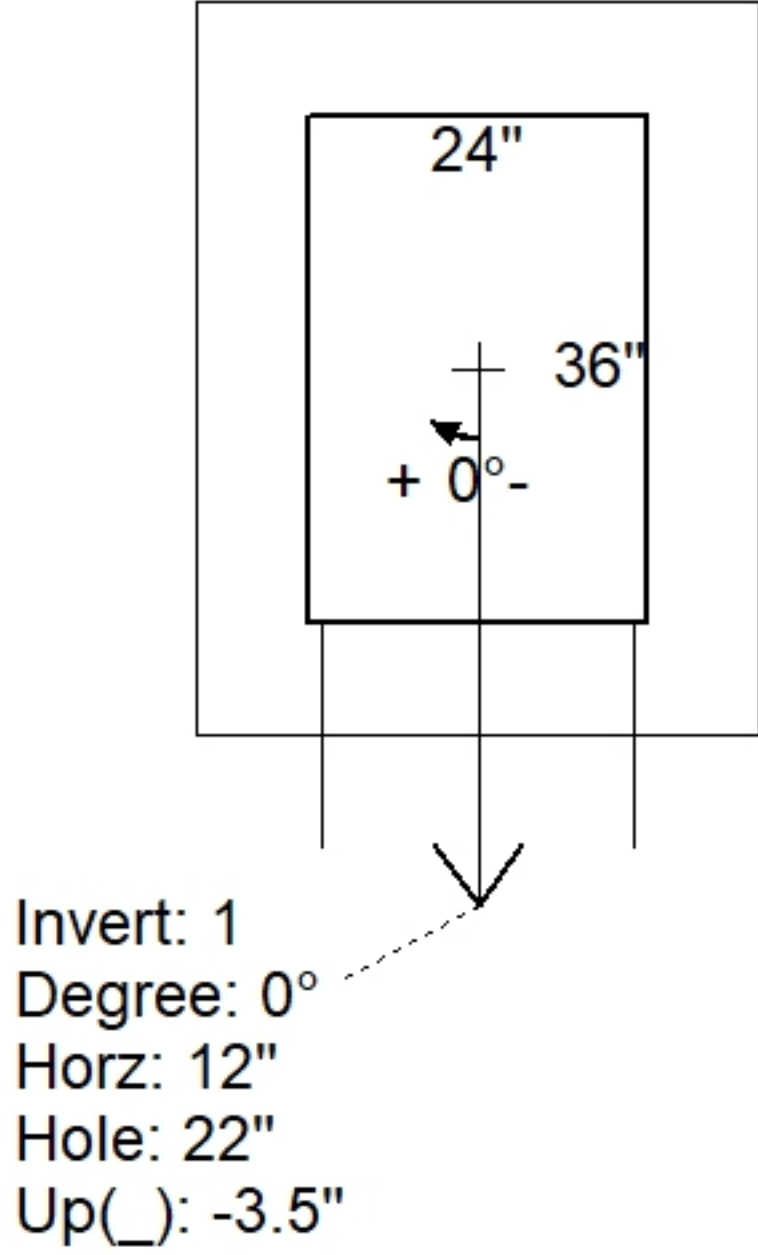
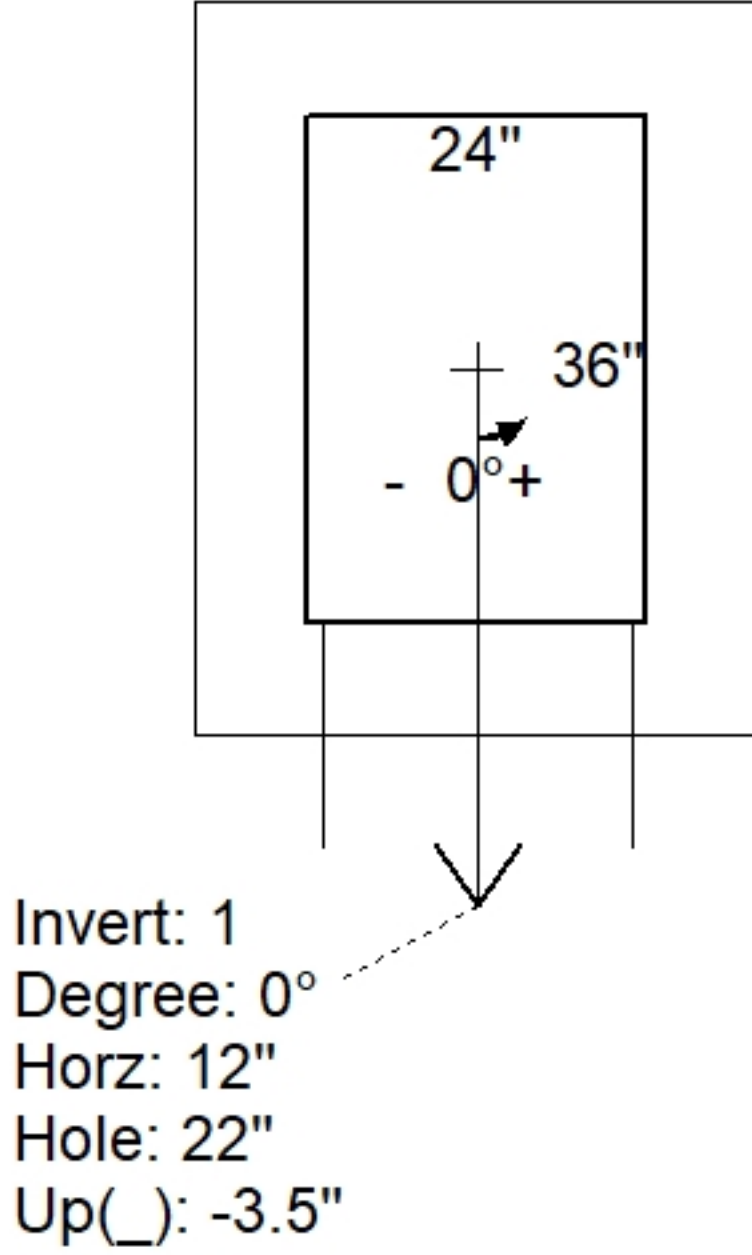
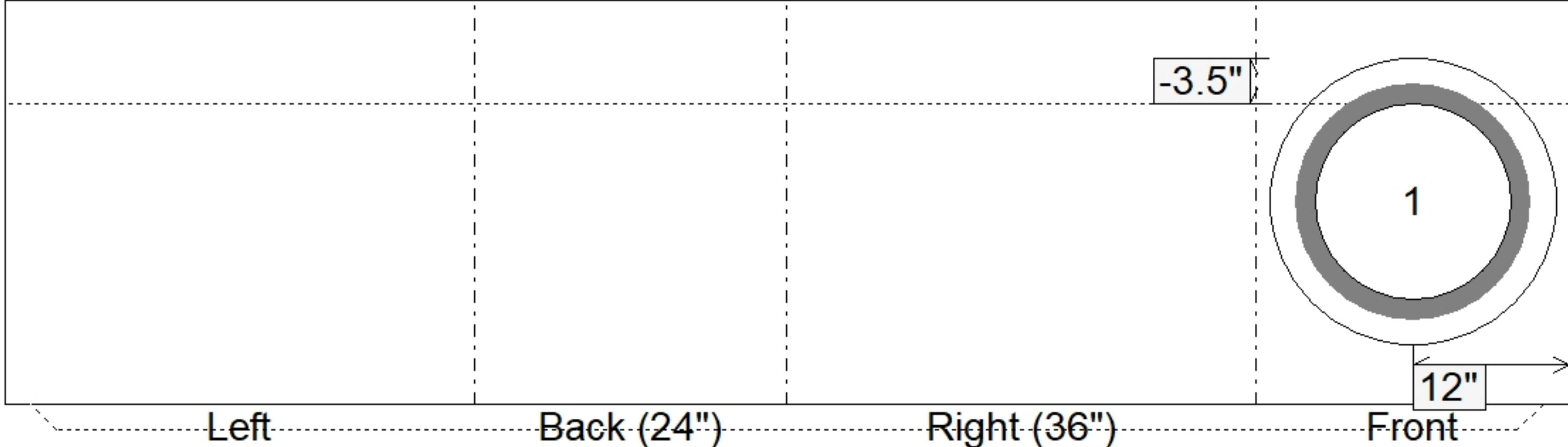
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 3709 lb Volume (Net): 0.95cu.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 12:59:23 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: CBI-E5										
P1		BX2436-08BVF		BOX BASE 8inW, 8inF, Variable Ht T/n						
P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10" P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 23" 1) CASTING - HOE KY-206 F/C (KY CBI A) 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 22				3398 lb 5270 lb 3488 lb 206 lb 0 lb 0 lb ----- Structure Total: 12362 lb		Structure Notes: 1. PER KYTC CBI A / ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE. REINFORCING PER ASTM AS615 (GRADE 60). - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W. - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W. - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 908.99'		Rim to Invert: 4.25'		Slack: 0"		Sump: 0"		Step Position:		
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	904.74'	0°	20"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										
				RIGHT-SIDE UP VIEW (int. dimensions)			UPSIDE-DOWN VIEW (int. dimenions)			
										
(P1)				INSIDE WALL DIMENSIONS						
										
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 23" Height (Ext): 31"		Weight (Net): 3488 lb Volume (Net): 0.89cu.yd	

Job Name: 23-2404 Hampton Hills (Phase 1)

Job Location: Richmond, KY

Contractor: Seven Earthmovers LLC

Plant: 100

5/19/2026 12:59:25 PM

Tech: J. Horsley

PC: C. Golf

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: CBI-H3

P1 BX2436-08BVF

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

P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10"

P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18"

P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 23"

1) CASTING - HOE KY-206 F/C (KY CBI A)

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

2) Hole - 22

3398 lb

5270 lb

3233 lb

206 lb

0 lb

0 lb

Structure Total: 12107 lb

Structure Notes:

1. PER KYTC CBI A / ASTM C913 SPEC'S.

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

3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE.

REINFORCING PER ASTM AS615 (GRADE 60).

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

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

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

Rim: 910.62'

Rim to Invert: 4.25'

Slack: 0"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	906.37'	90°	26"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"
Invert 2	906.37'	180°	20"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

Invert: 2

Degree: 180°

Horz: 12"

Hole: 22"

Up(): -3.5"

24"

36"

+ 0°-

Invert: 1

Degree: 90°

Horz: 18"

Hole: 22"

Up(): -3.5"

(P3)

(P2)

(P1) <<

Invert: 2

Degree: 180°

Horz: 12"

Hole: 22"

Up(): -3.5"

24"

36"

- 0°+

Invert: 1

Degree: 90°

Horz: 18"

Hole: 22"

Up(): -3.5"

(P3)

(P2)

(P1) <<

INSIDE WALL DIMENSIONS

2

1

-3.5"

-3.5"

12"

18"

Left

Back (24")

Right (36")

Front

8"

23"

EXT

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 23"

Height (Ext): 31"

Weight (Net): 3233 lb

Volume (Net): 0.83cu.yd



Weight (Net): 3299 lb
Volume (Net): 0.84cu.yd

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:45 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: A-05										
P1 BX2428-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n							
P2) 24" x 28" - CASTING HEIGHT - 8" P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 69" 1) Conseal CS-102 1.00" (Single) 1) SECONDARY POUR - Walls 1) CASTING - NEENAH R-3588-L (L GRATE) 1) CASTING - NEENAH R-3589 (FRAME) 1) Hole - 24"					0 lb 7177 lb 0 lb 0 lb 152 lb 250 lb 0 lb ----- Structure Total: 7579 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 610.47' Rim to Invert: 6.96' Slack: 6.52" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	603.51'	270°	22"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

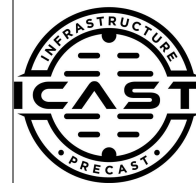
UPSIDE-DOWN VIEW (int. dimensions)

1ST POUR (FLOOR) = 1,182 LBS
 2ND POUR (WALLS) = 5,995 LBS

INSIDE WALL DIMENSIONS

Front	Right (28")	Back (24")	Left

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 69" Height (Ext): 77"	Weight (Net): 7177 lb Volume (Net): 1.83cu.yd
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Weight (Net): 7177 lb
Volume (Net): 1.83cu.yd

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:44 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: A-04										
P1 BX2428-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n							
P2) 24" x 28" - CASTING HEIGHT - 8" P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 76" 1) Conseal CS-102 1.00" (Single) 1) SECONDARY POUR - Walls 1) CASTING - NEENAH R-3588-L (L GRATE) 1) CASTING - NEENAH R-3589 (FRAME) 1) Hole - 24					0 lb 7816 lb 0 lb 0 lb 152 lb 250 lb 0 lb ----- Structure Total: 8218 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 612.02' Rim to Invert: 7.51' Slack: 6.12" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	604.51'	90°	22"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)					UPSIDE-DOWN VIEW (int. dimenions)				
					1ST POUR (FLOOR) = 1,182 LBS 2ND POUR (WALLS) = 6,634 LBS				
INSIDE WALL DIMENSIONS									
1ST POUR (FLOOR) STUB #5 L BARS OUT TOP FLOOR, SPA AT 12" C/C FOR CONNECTING WALLS									

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 76" Height (Ext): 84"	Weight (Net): 7816 lb Volume (Net): 2cu.yd
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Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:44 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: A-04										
P1 BX2428-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n							
P2) 24" x 28" - CASTING HEIGHT - 8" P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 76" 1) Con Seal CS-102 1.00" (Single) 1) SECONDARY POUR - Walls 1) CASTING - NEENAH R-3588-L (L GRATE) 1) CASTING - NEENAH R-3589 (FRAME) 1) Hole - 24					0 lb 7816 lb 0 lb 0 lb 152 lb 250 lb 0 lb ----- Structure Total: 8218 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 612.02' Rim to Invert: 7.51' Slack: 6.12" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	604.51'	90°	22"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	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)

1ST POUR (FLOOR) = 1,182 LBS
2ND POUR (WALLS) = 6,634 LBS

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 76" Height (Ext): 84"	Weight (Net): 7816 lb Volume (Net): 2cu.yd
----------------------------------	-------------------------------	--	--	---



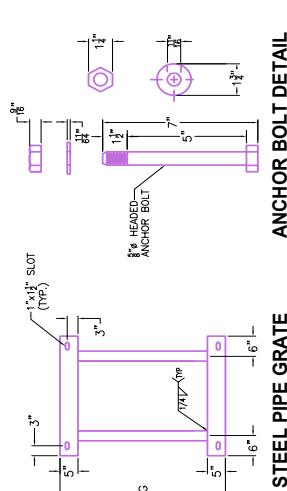
Structure ID: S3-4 HW

P1 HWTDOT6-1SA18

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

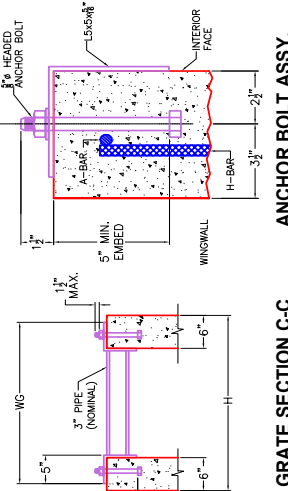
GENERAL NOTES

1. DRAWING TO BE USED FOR ALL 15" THROUGH 48" SIDE DRAIN CONCRETE ENDWALLS.
2. CONCRETE: $f'_c = 4,500$ PSI @ 28 DAYS.
3. 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 MATERIALS.
4. SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
5. APPROPRIATE SIZING AND LOCATIONS OF THE LIFTING INSERTS WILL BE THE RESPONSIBILITY OF INFRASTRUCTURE PRECAST, INC.
6. LIFTING INSERT POCKETS SHALL BE GROUTED ON SITE BY THE CONTRACTOR AFTER THE ENDWALL IS SET AS PER TDOT REQUIREMENTS.
7. DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 5-3.
8. PIPE OPENINGS FOR HEADWALLS ARE BASED ON REINFORCED CONCRETE PIPE WITH TYPE "B" WALL AS PER AMERICAN CONCRETE PIPE ASSOCIATION (ACPA). OUTSIDE DIAMETER $\pm 3"$ - $4"$.
9. TOE WALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.



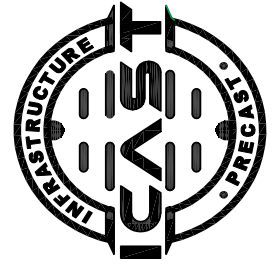
ANCHOR BOLT DETAIL

STEEL PIPE GRATE



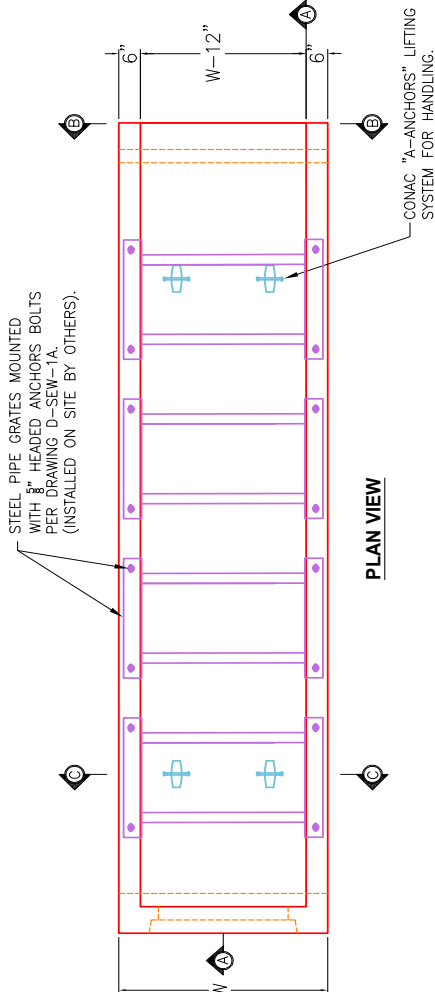
ANCHOR BOLT ASSY.

GRATE SECTION C-C



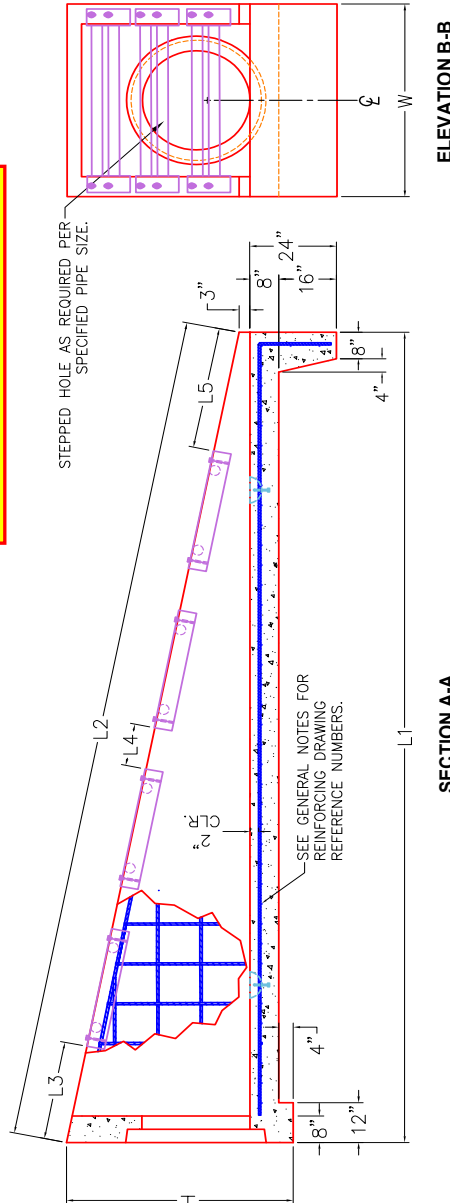
INFRASTRUCTURE PRECAST, INC.
981 WEST 7TH ST., BEAVER DAM, KY. 42320
PHONE: (270) 363-2238, FAX: (270) 298-7424

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	DRAWN BY: N. RICHARDS
WEB: WWW.ICASTINC.COM	SCALE: NTS



PLAN VIEW

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



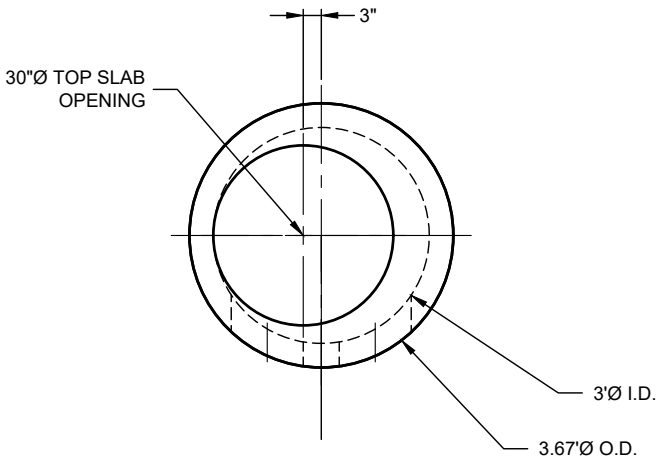
SECTION A-A

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 6:1

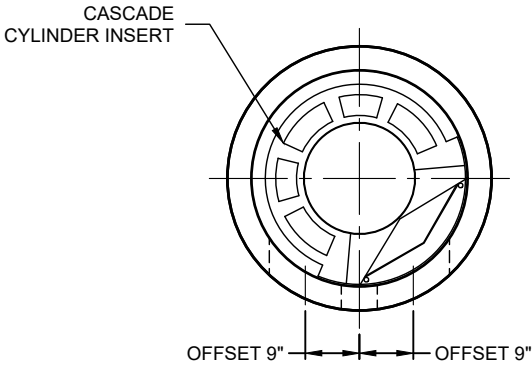
SIDE DRAIN DIA. (O)	CONCRETE ENDWALL DIMENSIONS			GRATE DISPLACEMENT DIMENSIONS			STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY			STRUCT. STEEL		WEIGHT LBS.
	H	W	L1	L2	L3	L4	WG	NO.	REQ'D.	LBS.	REQ'D.	LBS.
15"	2'-11"	2'-8"	11'-2"	11'-3"	2'-2"	1'-0"	2'-1"	2	5"	172	2	4,737
18"	3'-2"	2'-11"	12'-8"	12'-10"	2'-2"	1'-0"	2'-8"	3	5"	269	3	5,833
24"	3'-9"	3'-6"	16'-2"	16'-4"	2'-2"	1'-0"	3'-2"	3	5"	296	3	8,848
30"	4'-5"	4'-1"	20'-2"	20'-5"	2'-2"	1'-0"	3'-10"	4	5"	694	4	12,860
36"	5'-0"	4'-8"	23'-8"	23'-11"	2'-2"	1'-0"	4'-5"	5	5"	975	5	17,186
42"	5'-6"	5'-3"	26'-8"	27'-0"	2'-2"	1'-0"	5'-0"	6	5"	1,300	6	21,532
48"	6'-1"	5'-10"	30'-2"	30'-7"	2'-2"	1'-0"	5'-7"	7	5"	1,669	7	27,092

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 12:1

PIPE DIA.	CONCRETE ENDWALL DIMENSIONS			STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY			STRUCT. STEEL		WEIGHT LBS.
	H	W	L1	L2	L3	L4	LBS.	REQ'D.	LBS.
18"	3'-11"	3'-1"	26'-0"	24'-1"	2'-1"	3'-0"	5	5"	256

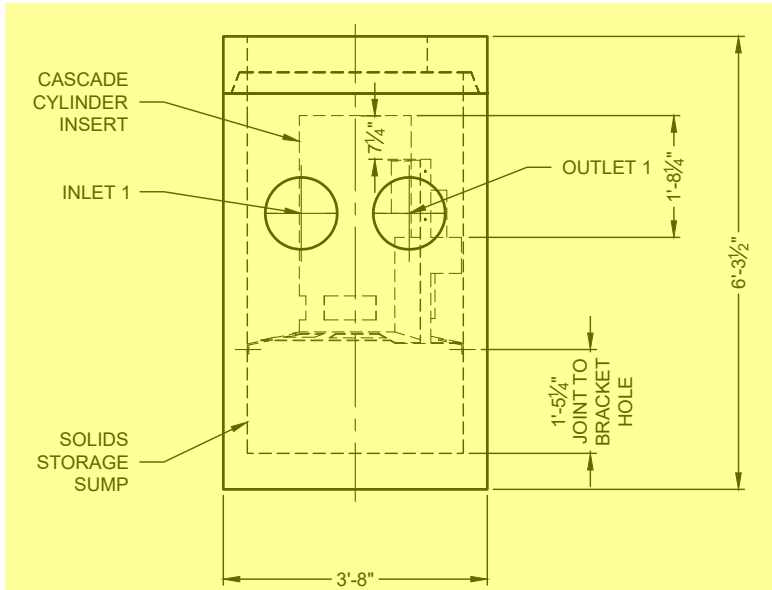


PLAN VIEW
INTERNALS NOT SHOWN

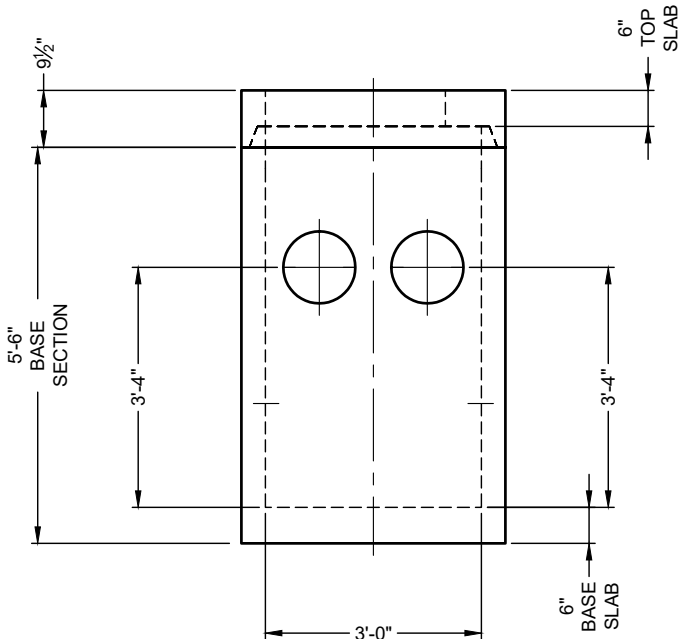


PLAN VIEW FOR PIPE ORIENTATION
TOP SLAB NOT SHOWN

SEE INSTALLATION NOTE A



ELEVATION VIEW



PRECAST COMPONENTS
INTERNALS NOT SHOWN

ICAST
5888 / 757440
LAYOUT 1A
1.99TS

CONTECH
FABRICATION
DRAWING

MATERIAL LIST

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-3 CYLINDER INSERT, STD.	325-004190	CONTECH	PRECASTER
3	CS-3 ALUMINUM INSTALLATION BRACKETS	325-003956	CONTECH	PRECASTER
1	CS-3 HARDWARE KIT	325-003955	CONTECH	PRECASTER
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
1	30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV.	325-000332	CONTECH	CONTRACTOR

GENERAL NOTES

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

INSTALLATION NOTES

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

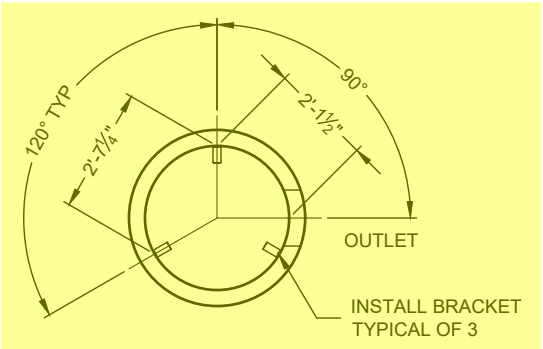
SITE INFORMATION

RIM ELEV. = 696.8+/-
TOP OF STRUCTURE = 695.69
INLET PIPE 1 INVERT ELEV. = 692.90
INLET PIPE 1 DIAMETER AND MATERIAL = 8"Ø HDPE
OUTLET PIPE INVERT ELEV. = 692.90
OUTLET PIPE DIAMETER AND MATERIAL = 8"Ø HDPE
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 689.40

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 4000 LBS.
STRUCTURE IS DELIVERED IN 2 PIECES

TOP SLAB = 1000 LBS.
BASE SECTION = 4000 LBS.



SUPPORT BRACKET LAYOUT PLAN VIEW

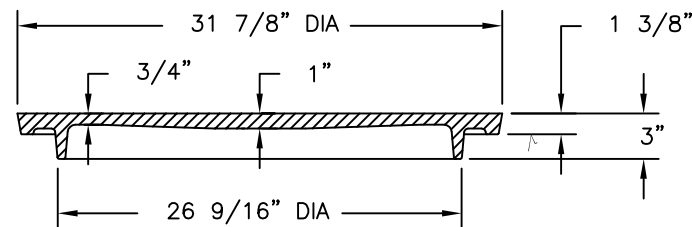
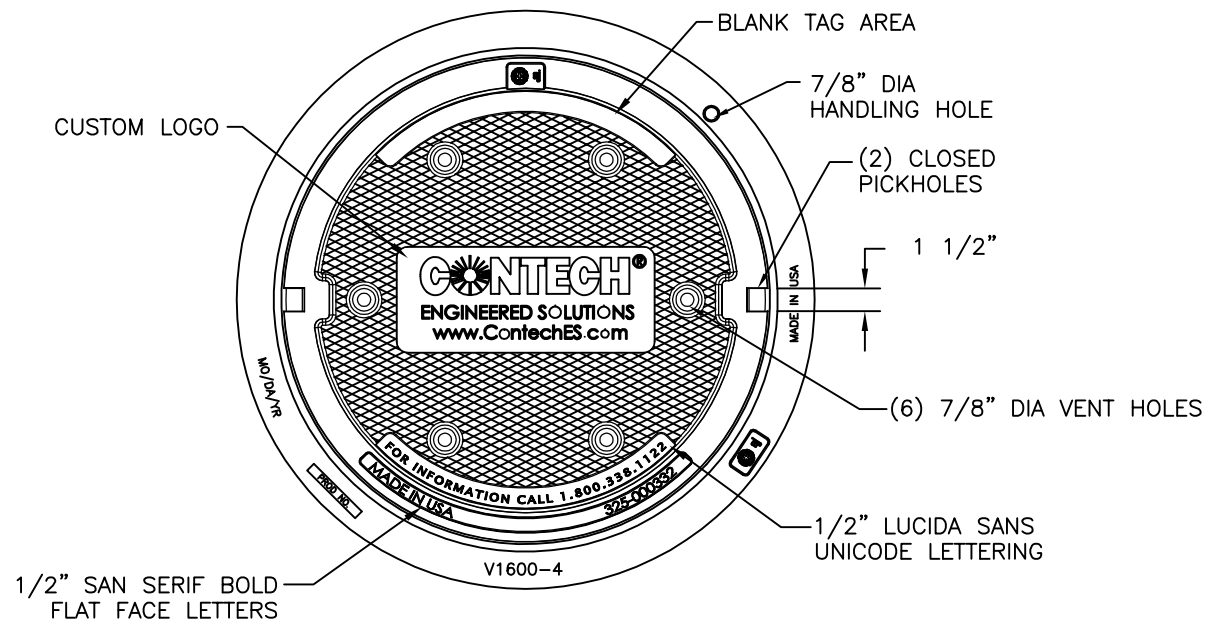
CS-3 - 884687-10
MANTRA JOURNEY - MEDICAL
MARIJUANA DISPENSARY
BARDSTOWN, KY
SITE DESIGNATION: WQU

CONTECH
ENGINEERED SOLUTIONS LLC
A CONTECH COMPANY
910 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-345-7000 513-345-7893 FAX
CASCADE
separator®
FOR PATENT INFORMATION, GO TO www.contechES.com/PP

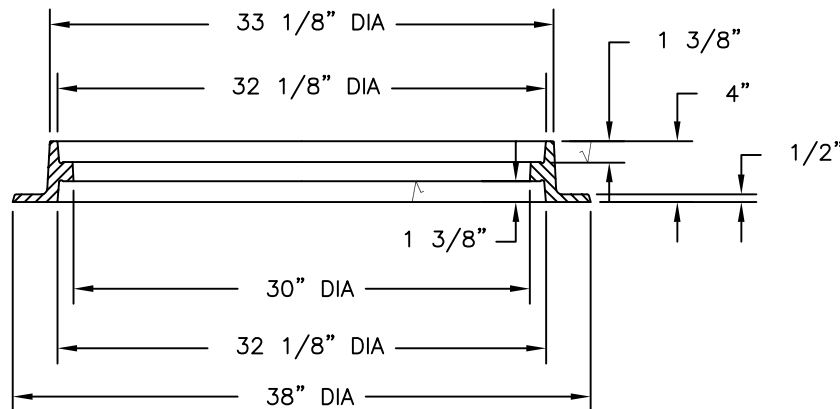
DATE:	5/12/2026
DESIGNED:	MDB
CHECKED:	MSB
PROJECT No.:	884687
SEQUENCE No.:	10
SHEET:	1 OF 1

26-2457 884687 Mantra Journey

1810B4 V1600-4 Assembly



COVER SECTION



FRAME SECTION

Product Number

41600483

Design Features

- Materials
 - Cover
 - Gray Iron (CL35B)
 - Frame
 - Gray Iron (CL35B)
- Design Load
 - Heavy Duty
- Open Area
 - n/a
- Coating
 - Undipped
- √ Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Major Components

00180783
41600410

Drawing Revision

05/09/2007 Designer: SMH
6/26/2017 Revised By: DAE

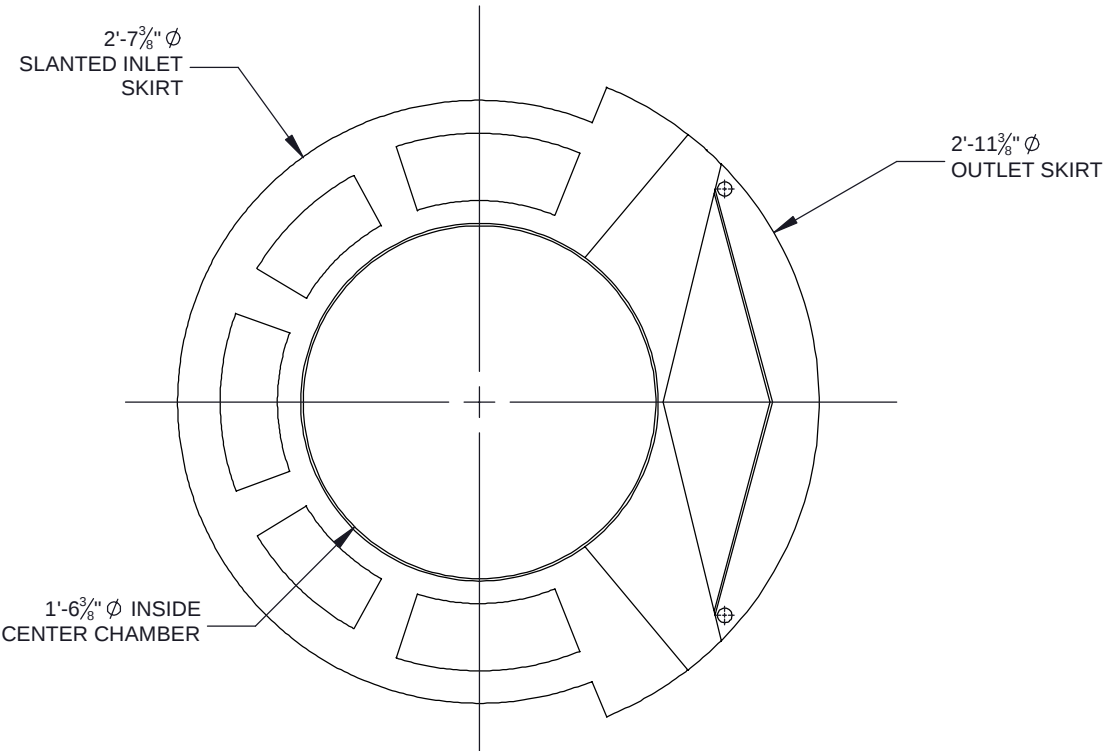
Disclaimer

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

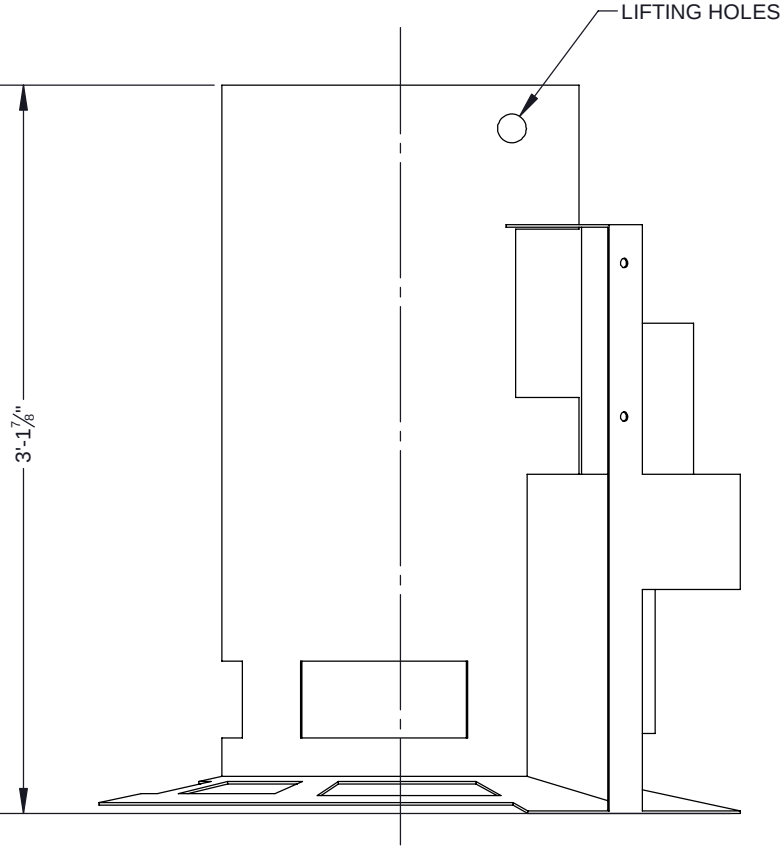
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Contact

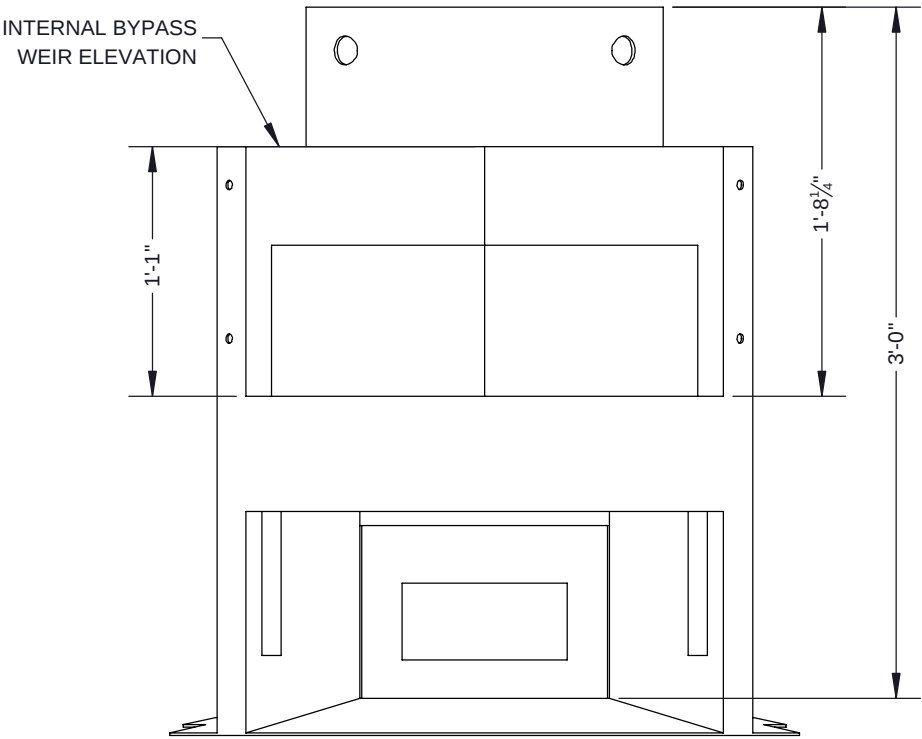
800 626 4653
ejco.com



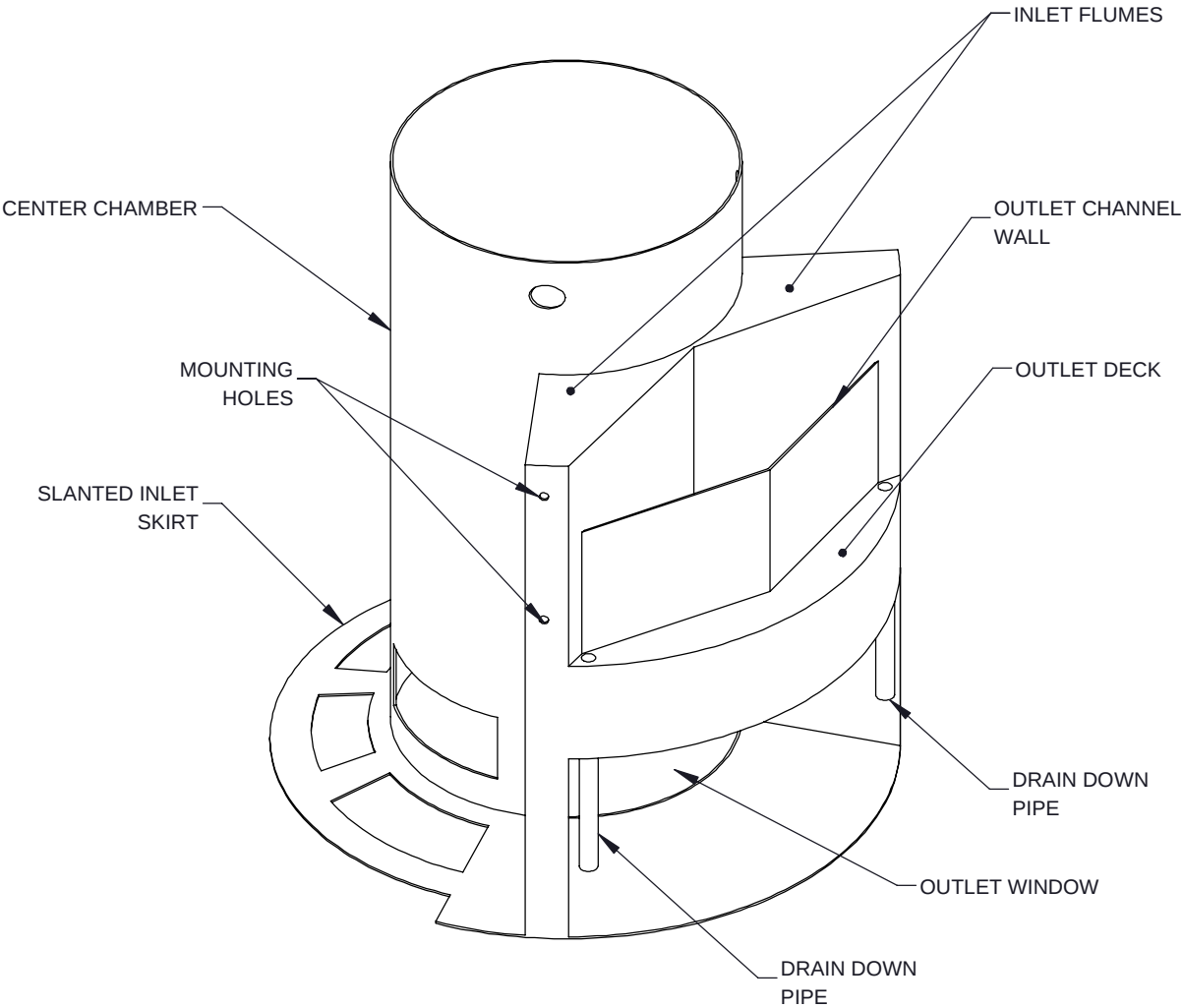
PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



ISOMETRIC VIEW

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

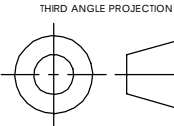
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REFERENCE DETAIL
INTERNALS ALUMINUM CS-3
CASCADE SEPARATOR



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: 325-004190		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.16	REV: A
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

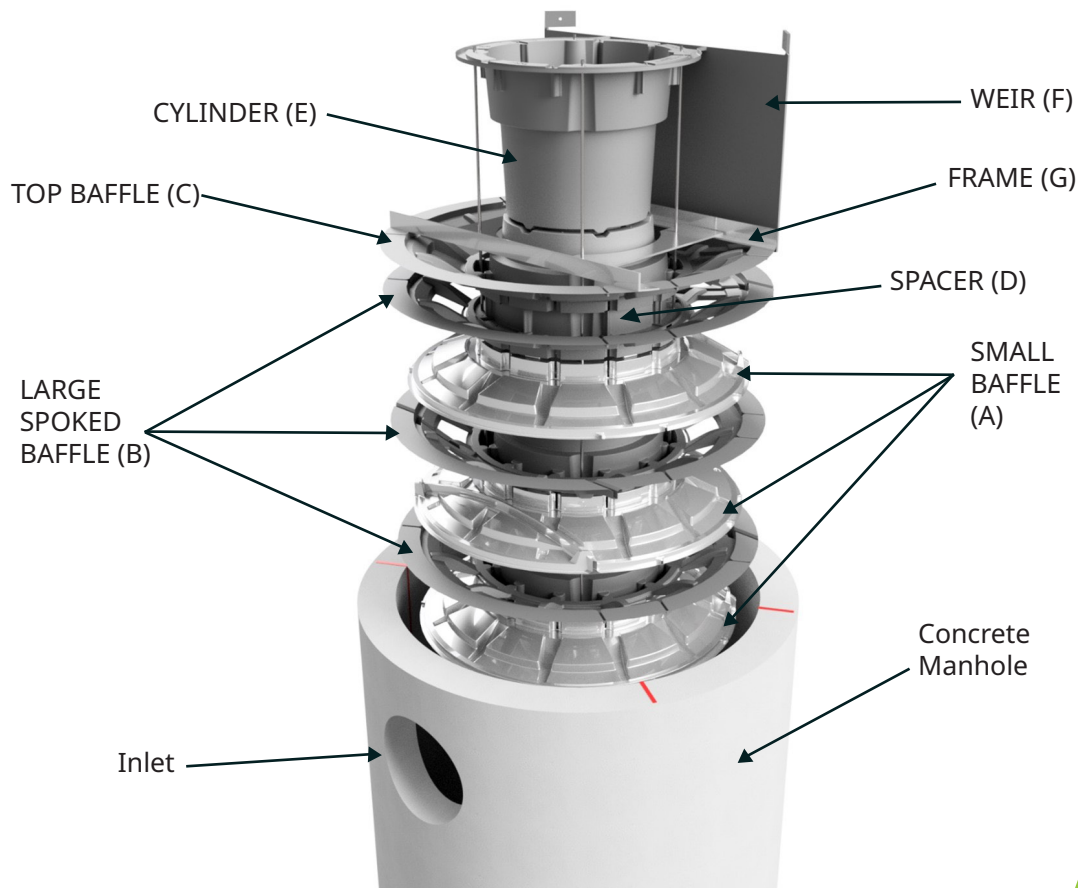
Section 1: Internal Components, Hardware & Tools

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)".
- Conseal Roll(s).
- Copy of the Installation Guide

Other Tools Needed

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

Section 2: Assembling Internal Components

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

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

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

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

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

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

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

Scan the QR Code
to watch the
Arcadia
installation video



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

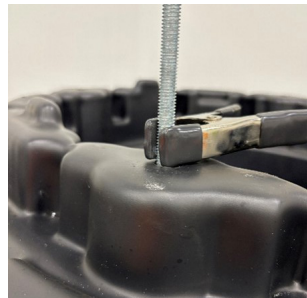


Figure 6



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

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

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

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

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

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

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

Figure 7



Figure 8

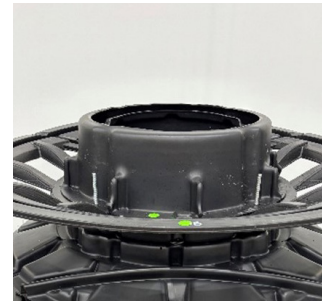


Figure 9



Figure 10



Figure 11



Figure 12

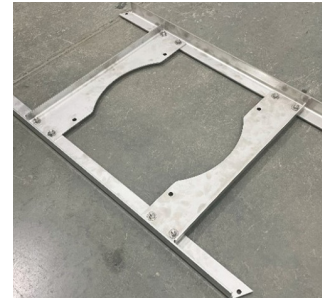


Figure 13

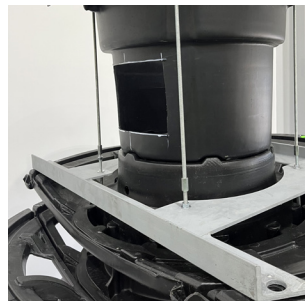


Figure 14



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

Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Section 3: Mounting Brackets within Concrete Manhole Riser

Materials provided by ADS

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

Other Tools Needed

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

Figure 22

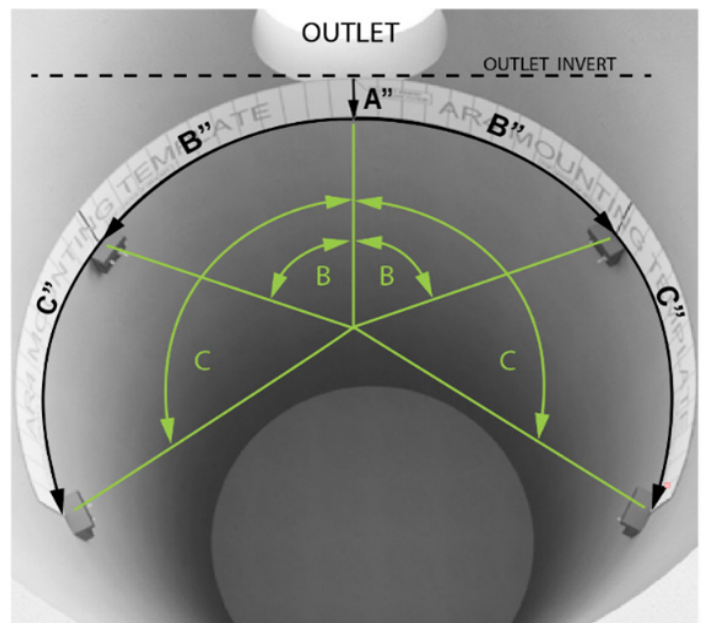


Table 1: Angular Measurements

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

Table 2: Linear Measurements

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

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

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

Figure 23



Figure 24



Figure 25

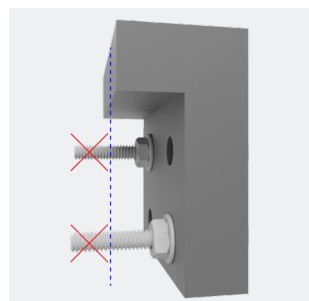
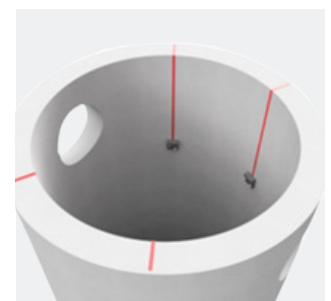


Figure 26



Section 4: Transporting Assembled Arcadia Internals

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

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

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



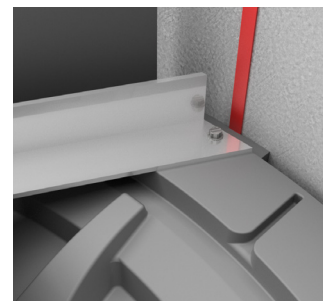
Figure 32



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

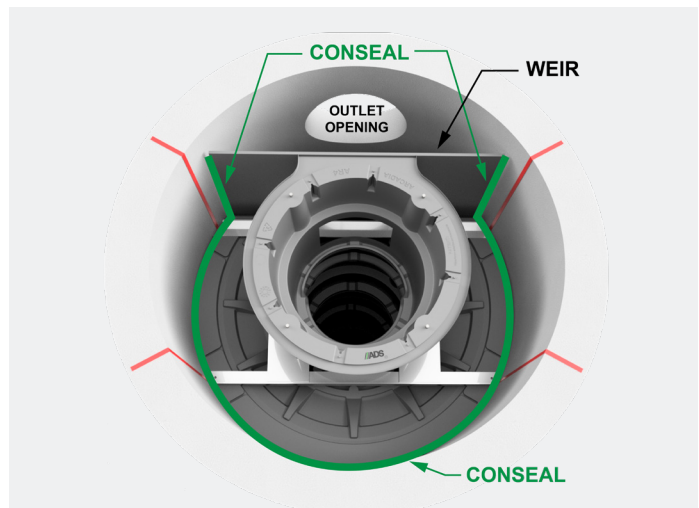


Figure 36

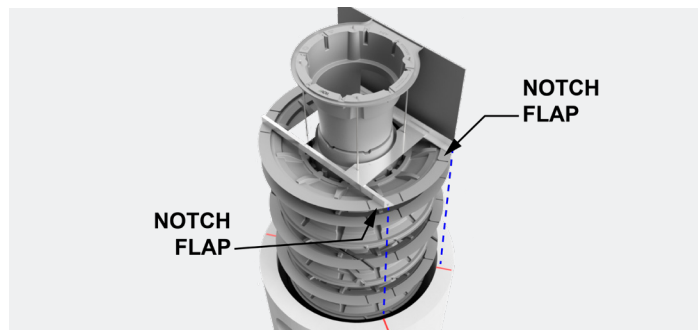


Figure 37

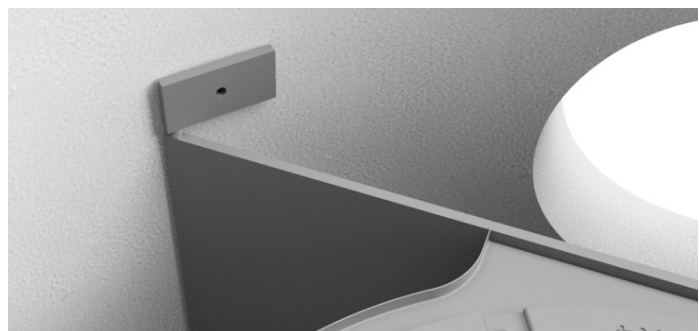
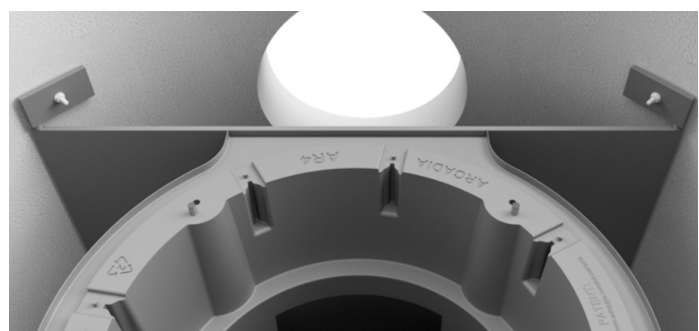


Figure 38



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

Plant: Beaver Dam, KY

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

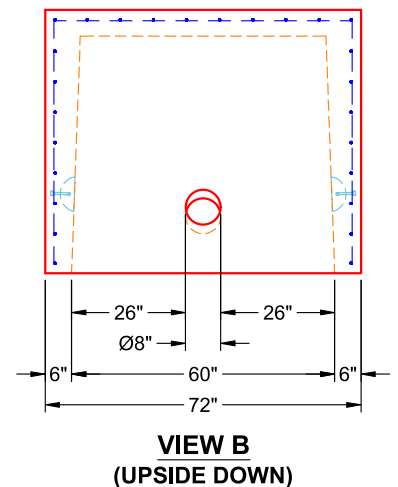
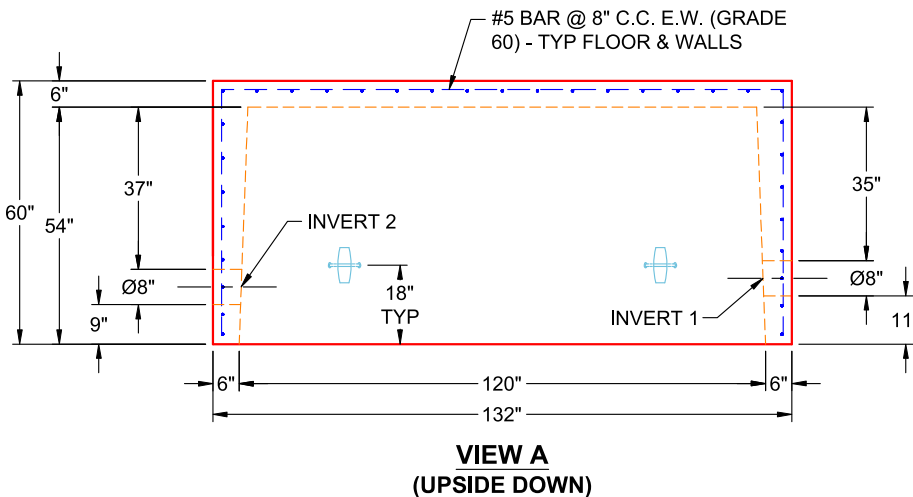
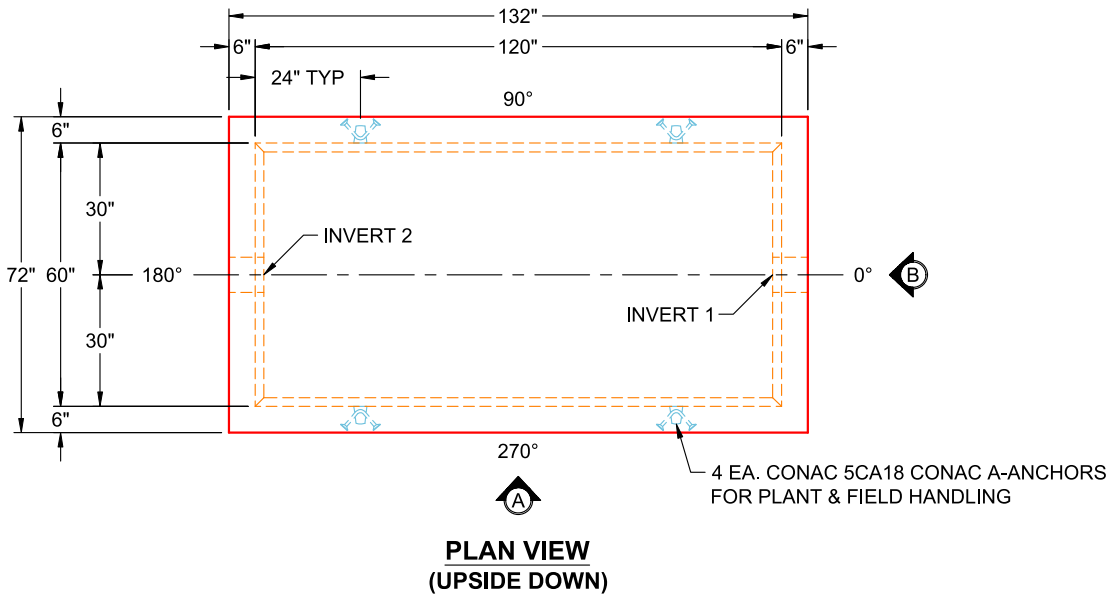
Structure Notes:

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:

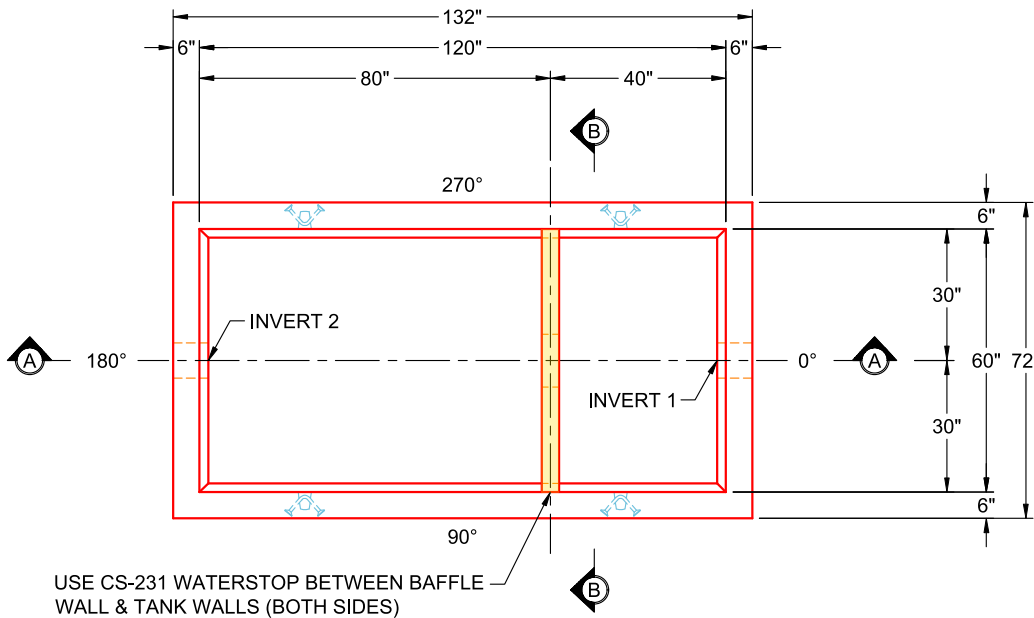
1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR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

FIRST POUR (BASE): 16,155 LBS

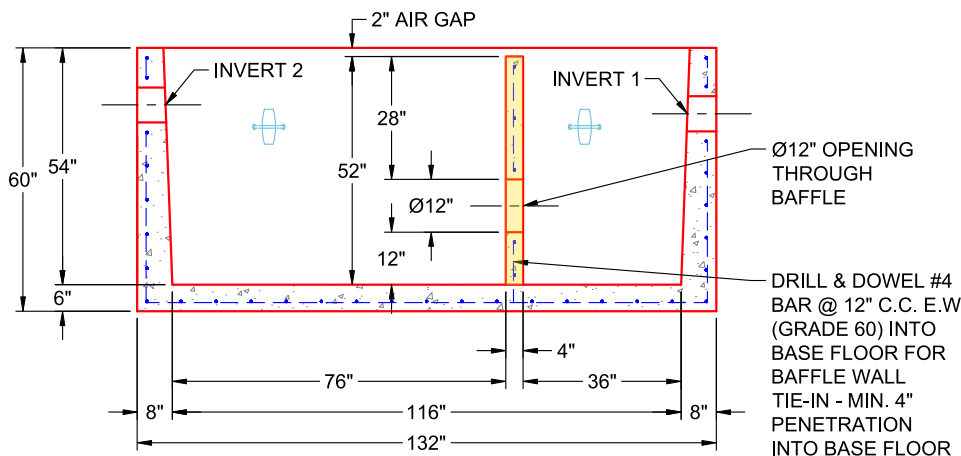
SECOND POUR (BAFFLE WALL): 975 LBS

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

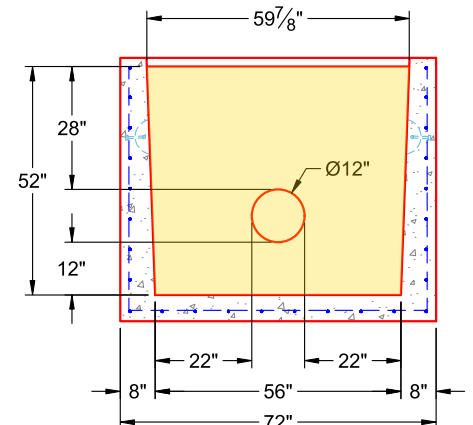
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



**PLAN VIEW
(RIGHT SIDE UP)**



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



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

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

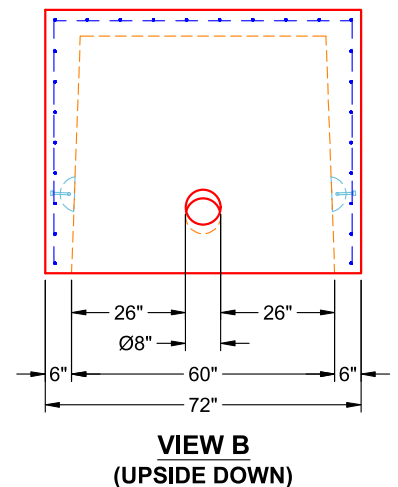
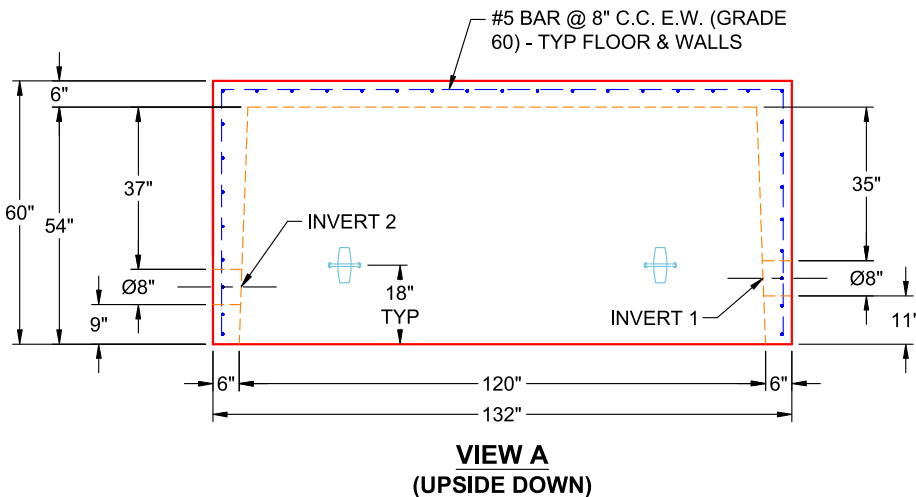
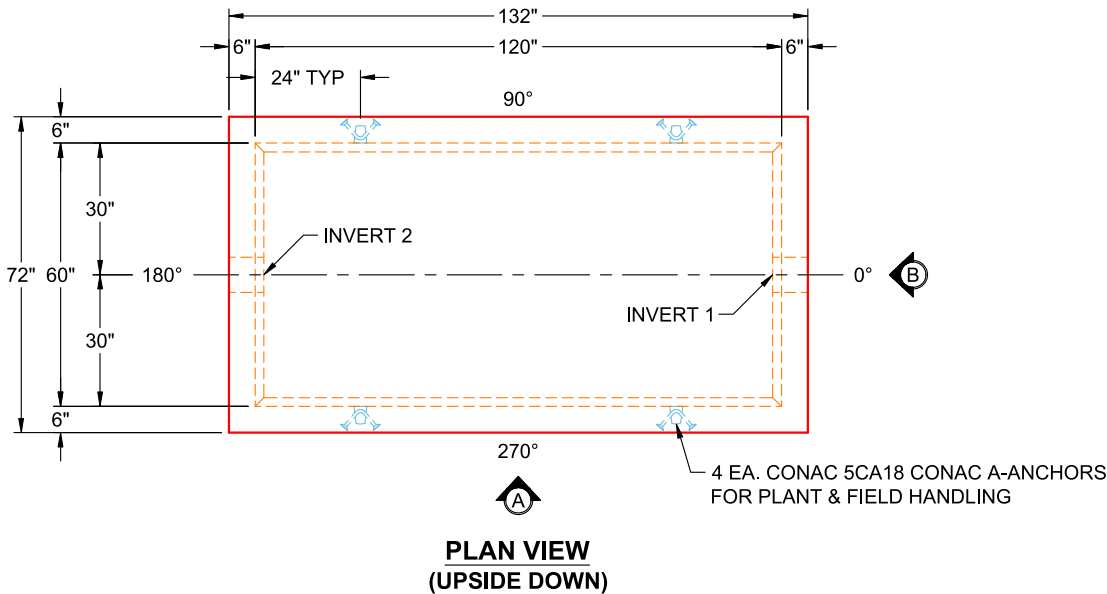
Structure Notes:

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:

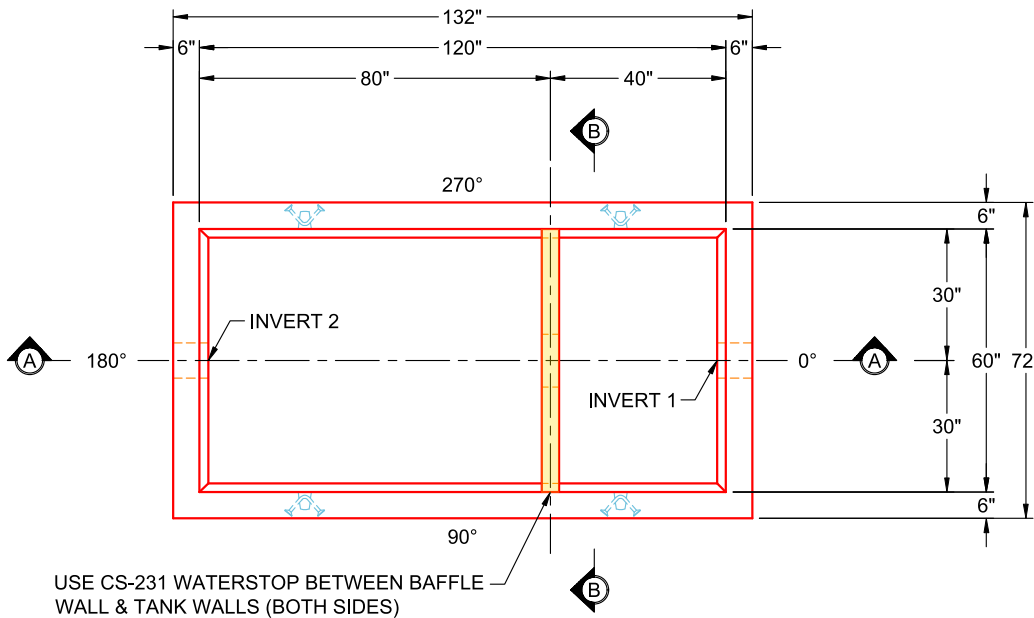
1. PER ASTM C-890-13 & ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR
5. PRIOR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

FIRST POUR (BASE): 16,155 LBS

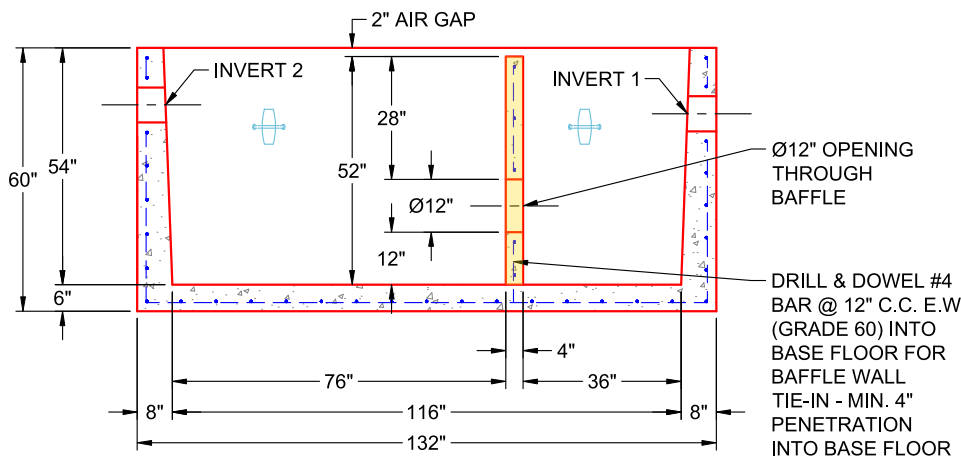
SECOND POUR (BAFFLE WALL): 975 LBS

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

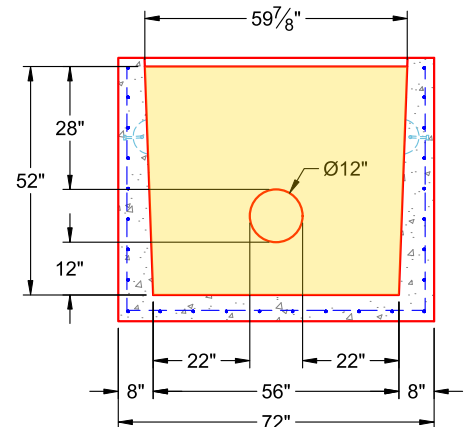
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	3.083'	0°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	35"	0"
Invert 2	3.25'	180°	36"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8"	37"	0"
Invert 3										



**PLAN VIEW
(RIGHT SIDE UP)**



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



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

Job Name: 26-1763 - MSU Commons Vault
Job Location: Murray, KY
Contractor: West Kentucky Industrial & Plumbing

Plant: 100
5/22/2026 5:04:04 PM

Tech: Jared - F
PC: T. Lewis



Structure ID: QL2 MV

P2 BX048108-08LD08S

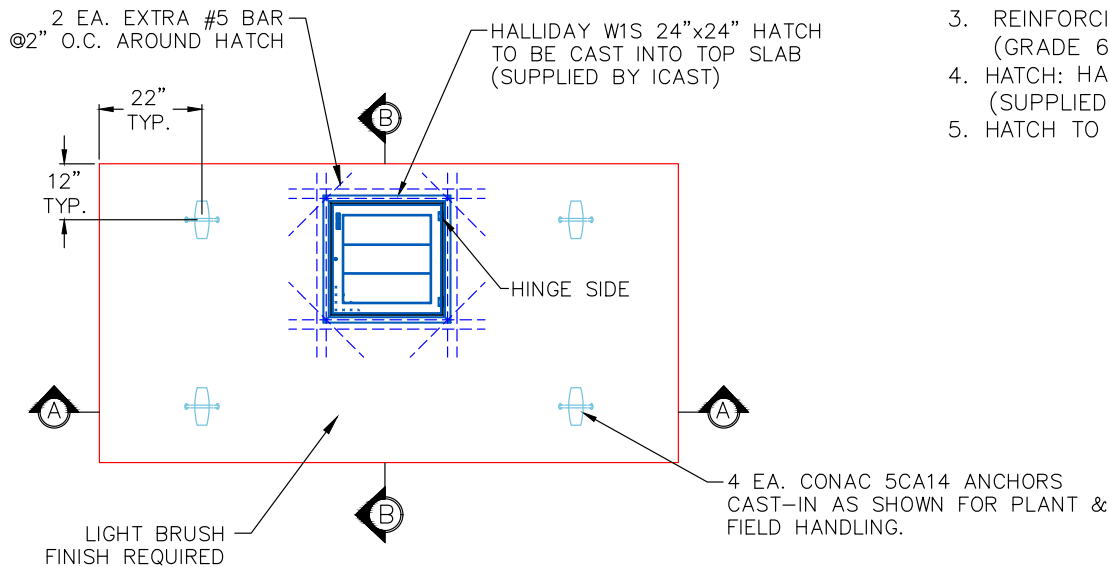
BX FLAT TOP 8"W w/24"x24" HATCH F/F

- P3) 24" x 24" - HATCH (CAST FLUSH) - 3"
P2) 48" x 108" - BX FLAT TOP 8"W w/24"x24" HATCH - 8"
P1) 48" x 108" - BOX BASE 8inW, 8inF, Variable Ht - 72"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) HATCH (Alum.) - HALLIDAY W1S 24"x24"
1) SECONDARY POUR - WALLS
1) 24" x 24" - Conseal CS-102 1.00" (Double)
2) Hole - 8

Structure Total: 26973 lb

Structure Notes:

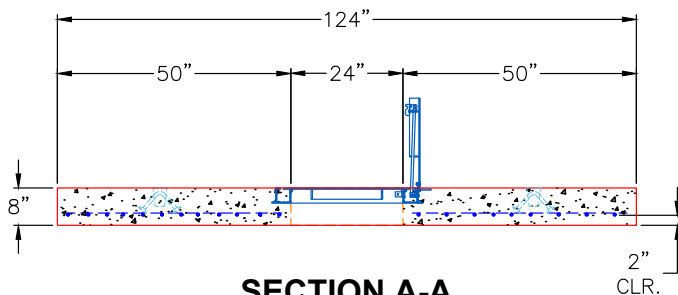
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. HATCH PROVIDED BY ICAST (HALLIDAY W1S 24"x24")
- REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB #5 BAR @ 6" C.C E.W.
 - WALLS #5 BAR @ 12" C.C E.W.
 - FLOOR #5 BAR @ 12" C.C E.W.



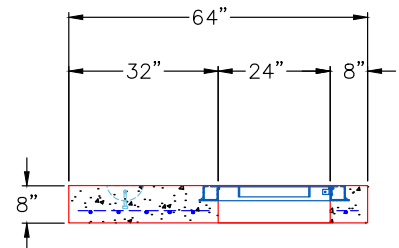
PLAN VIEW

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" E.W. O.C. (GRADE 60).
4. HATCH: HALLIDAY W1S 24"x24" HATCH (SUPPLIED BY ICAST)
5. HATCH TO BE CAST INTO TOP OF LID.



SECTION A-A
(RIGHT SIDE-UP VIEW)



SECTION B-B
(RIGHT SIDE-UP VIEW)

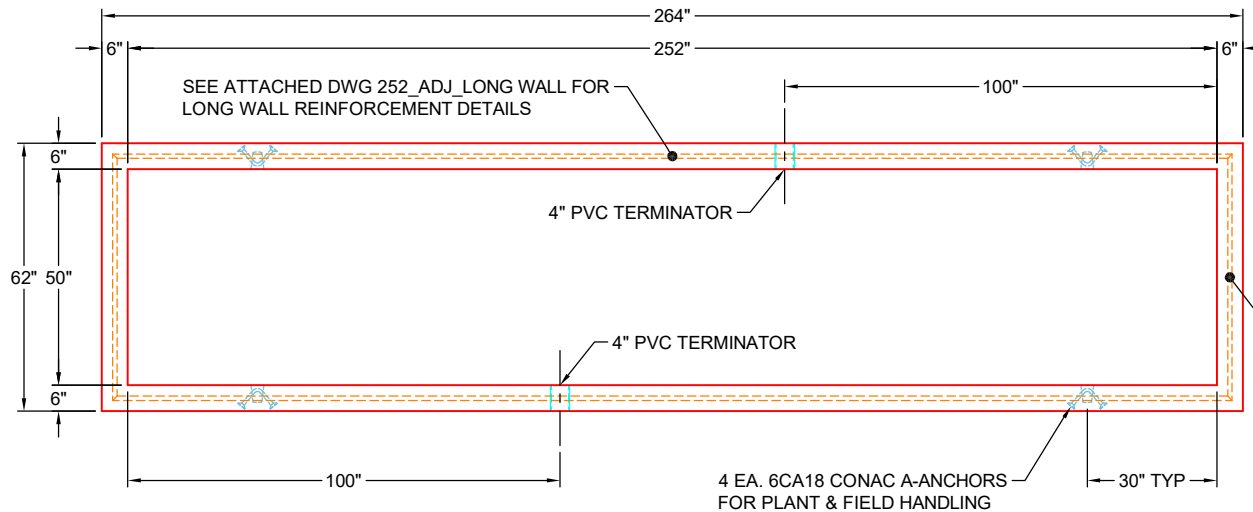
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

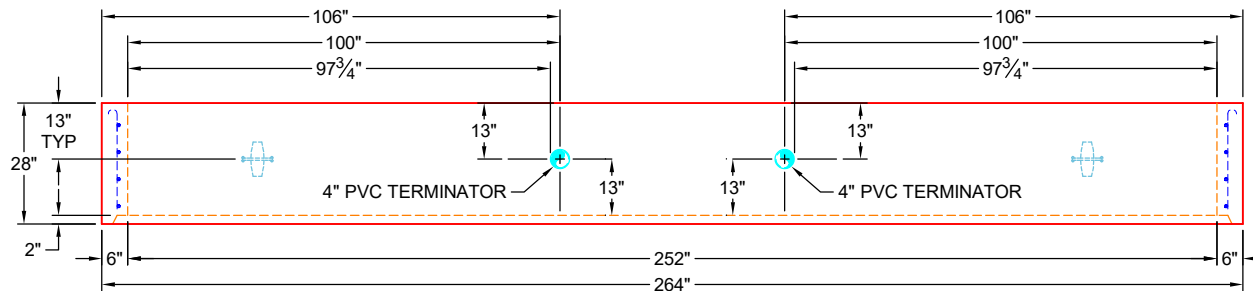
Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 4941 lb
Volume (Net): 1.26cu.yd



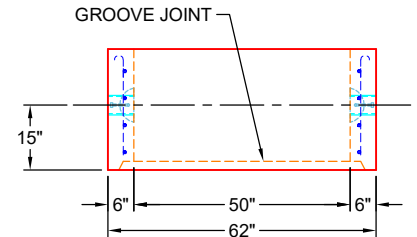
**PLAN VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**

GENERAL NOTES:

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



**SIDE VIEW
(RIGHT SIDE UP)**

PRODUCTION WORK ORDER

PRODUCT I.D.: CVR

DESCRIPTION: 50" X 252" X 28" RISER



QUALITY CONTROL CHECKLIST

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

PRODUCT VIEW: UPSIDE DOWN

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 1-26 691249488

WEIGHT: 9,178 LBS

STRUCTURE: 2-61615 2 (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

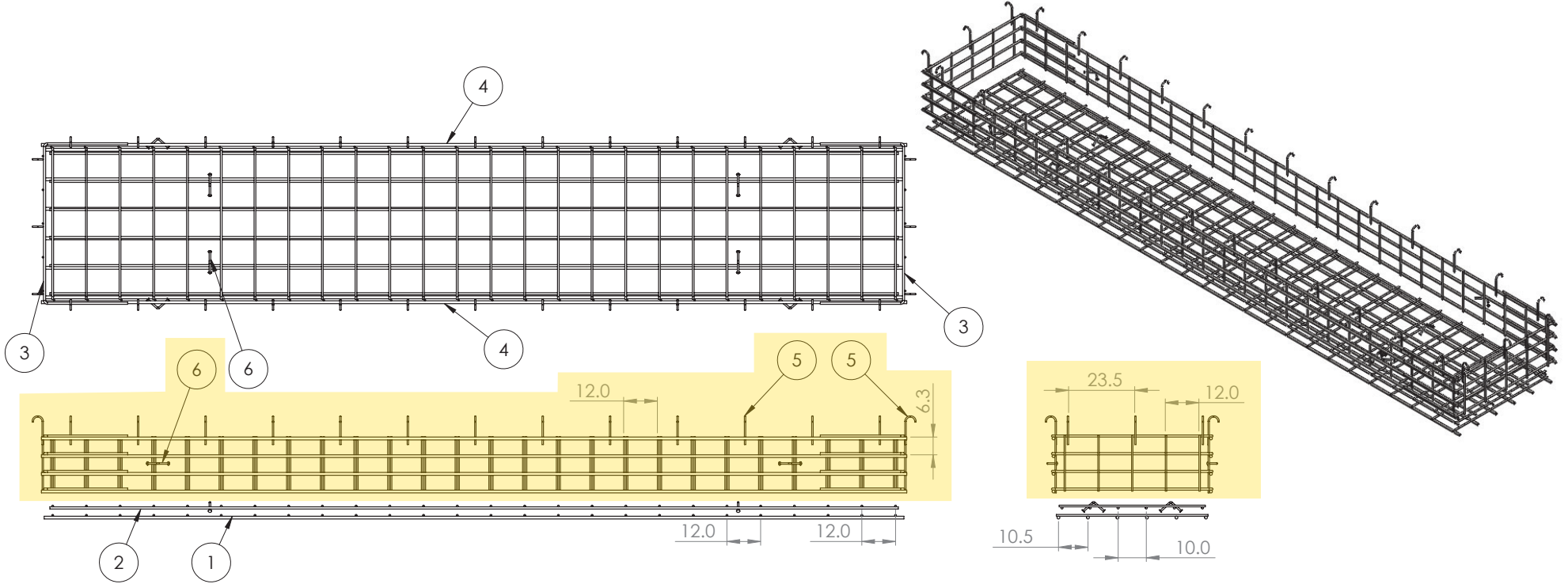
3

2

1

B

B



NOTES:

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

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

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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		
			ENG APPR.	XXXX	XXXX		
		INTERPRET GEOMETRIC TOLERANCING PER:	MFG APPR.	XXXX	XXXX		
		MATERIAL Rebar A614 G60	Q.A.	XXXX	XXXX		
		FINISH	COMMENTS:			SIZE DWG. NO. REV B EFX-60 ADJ Rebar X1	
NEXT ASSY	USED ON	MILL					
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:50 WEIGHT: SHEET 1 OF 1				

4

3

2

1

A

A

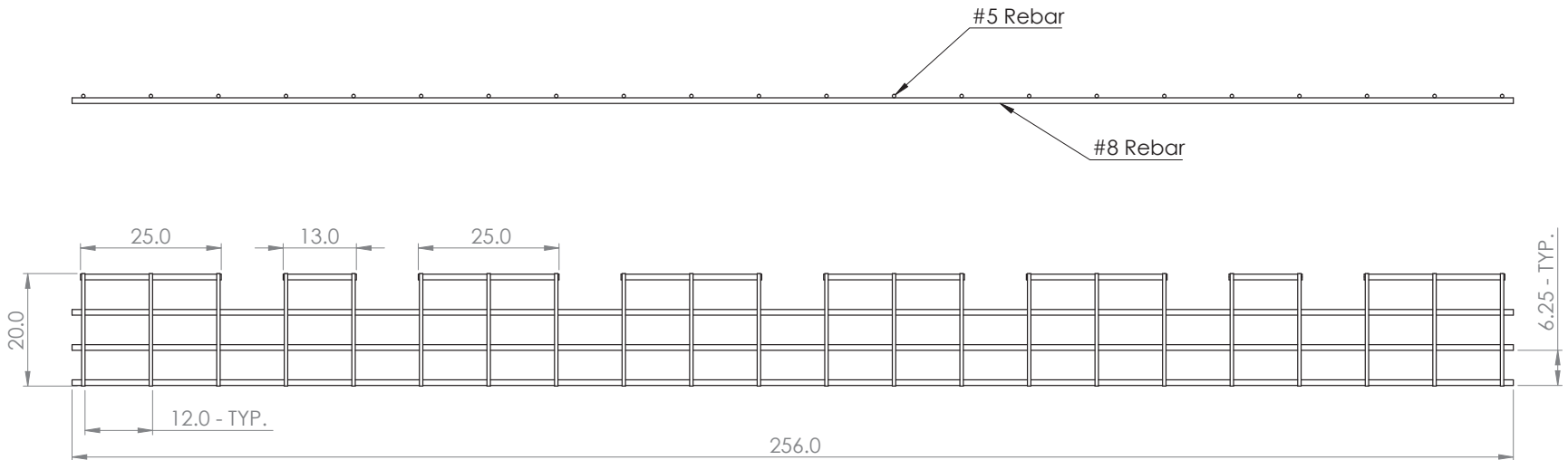
4

3

2

1

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



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

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

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

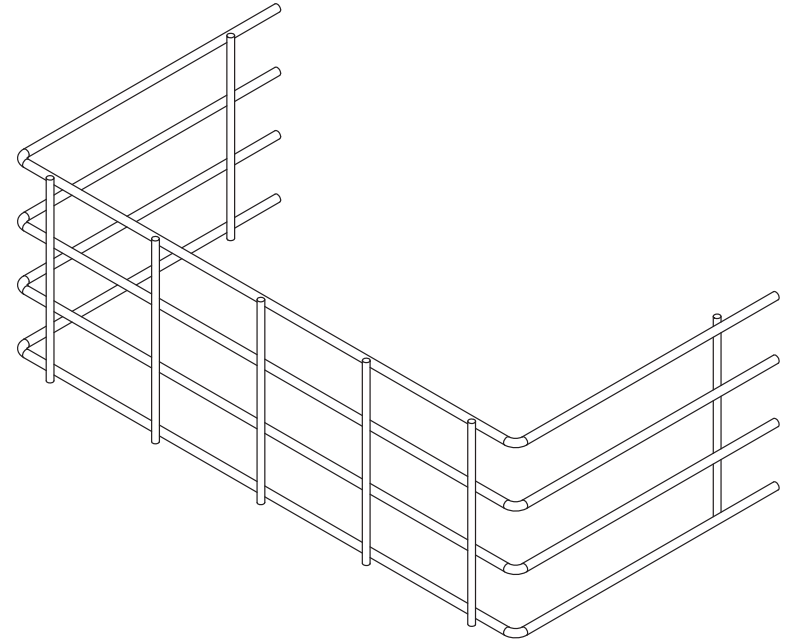
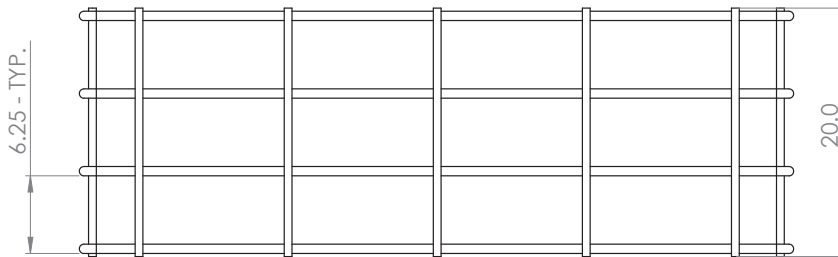
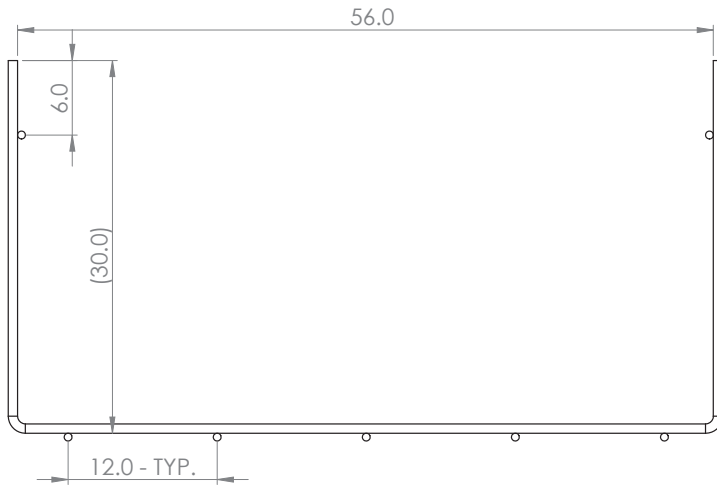
SIZE DWG. NO. REV.
B 252_ADJ_Long Wall
SCALE: 1:50 WEIGHT: SHEET 1 OF 1

4

3

2

1



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

 infrastructure precast, inc.	981 W. 7th Street Beaver Dam, KY 42320 P 270-363-2238 F 270-363-2234 iCastinc.com	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN XXX	NAME	DATE
			CHECKED		
			ENG APPR.		
			MFG APPR.		
			Q.A.		
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DO NOT SCALE DRAWING		SCALE: 1:10			WEIGHT:

SIZE B	DWG. NO.	Short Wall	REV.
SHEET 1 OF 1			

4

3

2

1

Job Number:

26-1615

Job Name:

1-26 691249488

Structure:

2-61615 2

Note:

Nosing Kit To Be Shipped. See Chad Jarvis.