

Structure ID: 1

P1 MH036BA18

MH BASE T/n

P6) 24" - CASTING HEIGHT - 7" P5) 24" - GRADE RING F/F - 3" P4) 36" - MH FLAT TOP w/ 24" Ctr. Hole F/G - 10" P3) 36" - MH RISER T/G - 24" P2) 36" - MH RISER T/G - 60" P1) 36" - MH BASE T/n - 18" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) ASSEMBLY REQUIRED 1) CASTING - HOE MC-375 F/C Storm 3) 36" - Conseal CS-102 1.00" (Double) 2) Hole - 12	0 lb 202 lb 896 lb 1012 lb 2454 lb 1525 lb 0 lb 0 lb 0 lb 271 lb 0 lb 0 lb ----- Structure Total: 6360 lb
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Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-375 F/C "STORM").
4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE.

REINFORCING PER ASTM A615 (GRADE 60).

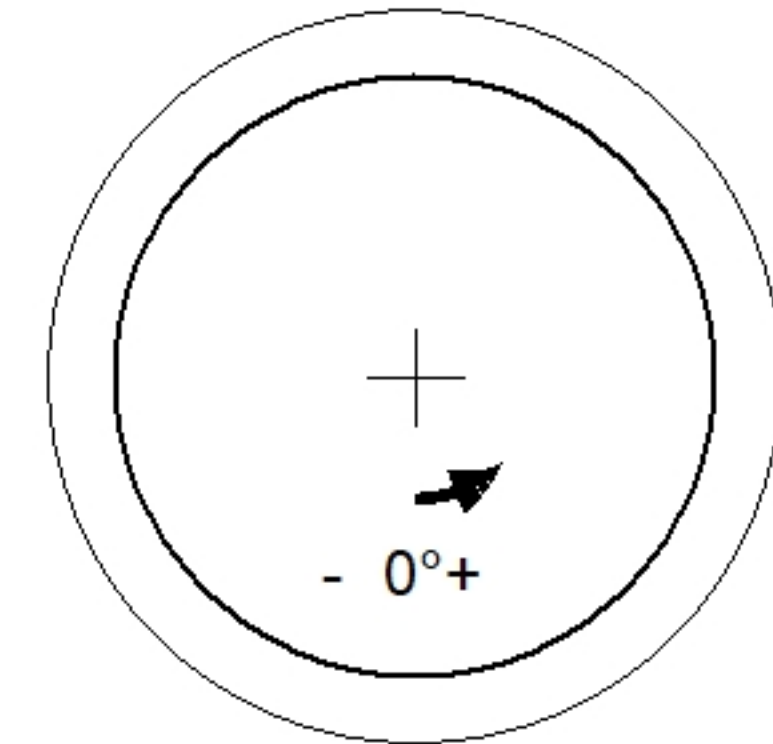
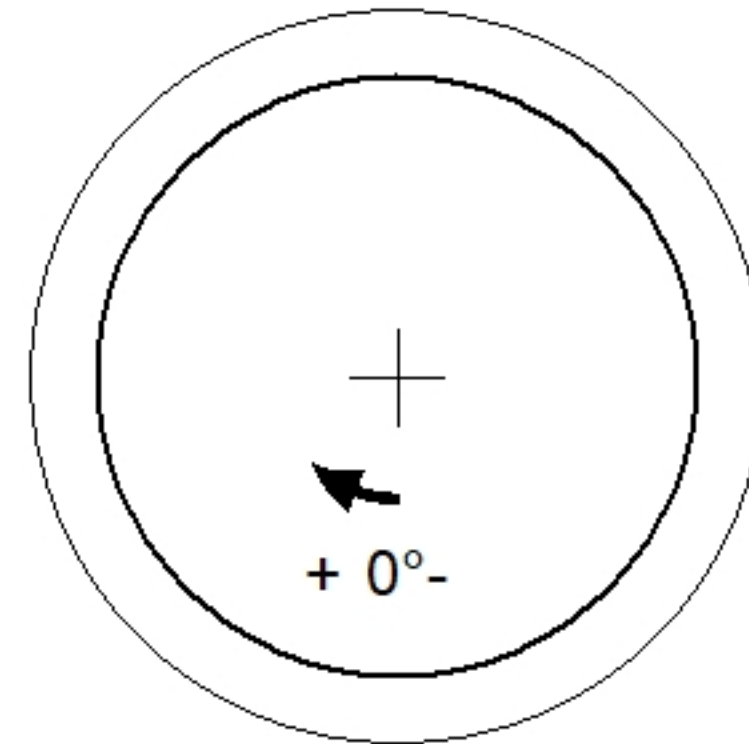
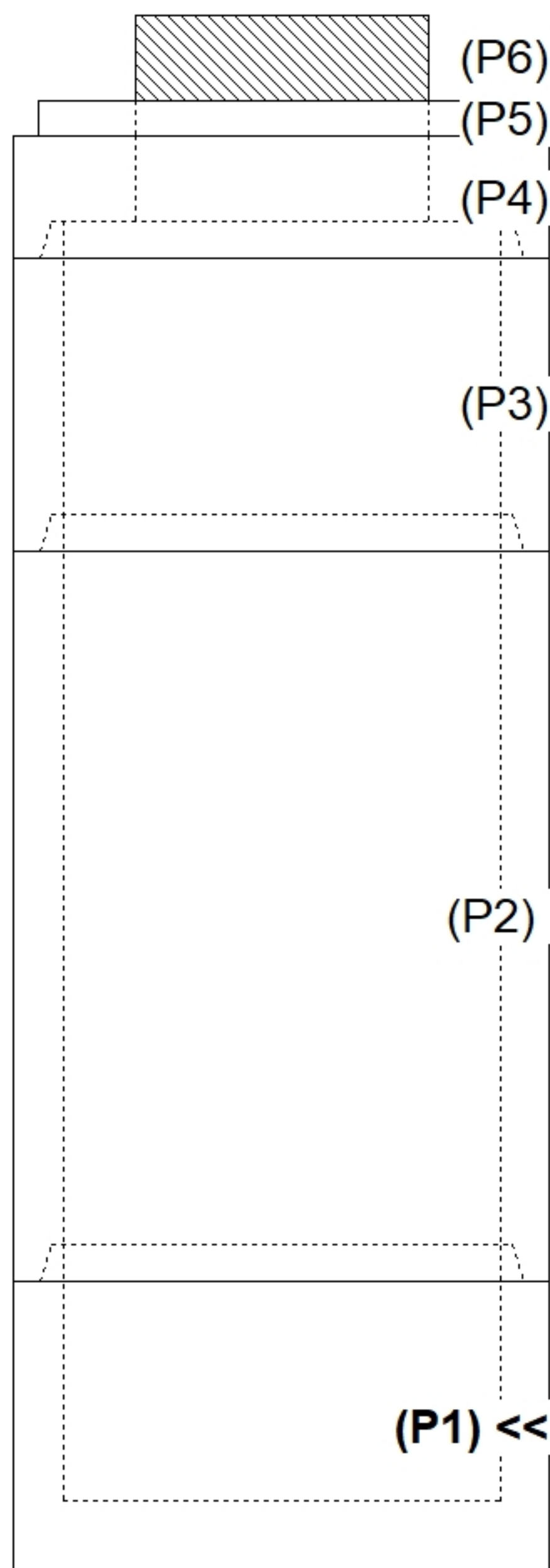
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 558' Rim to Invert: 5.64' Slack: 0.64" Sump: 54.96" Step Position:

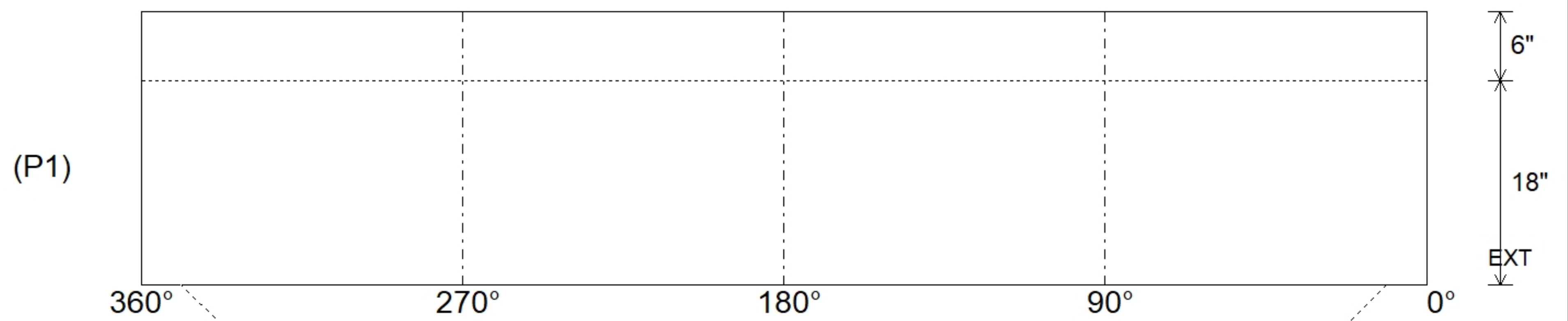
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue	Wall Thickness: 4"	Height (Int): 18"
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 24"
		Weight (Net): 1525 lb	
		Volume (Net): 0.39cu.yd	

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

Tech: Jared - A

5/14/2026 2:16:52 PM

PC: A. Chambers



Structure ID: A-2

P2 MH048RS60CDARED

MH RISER w/ConBlock-CDA Red T/G

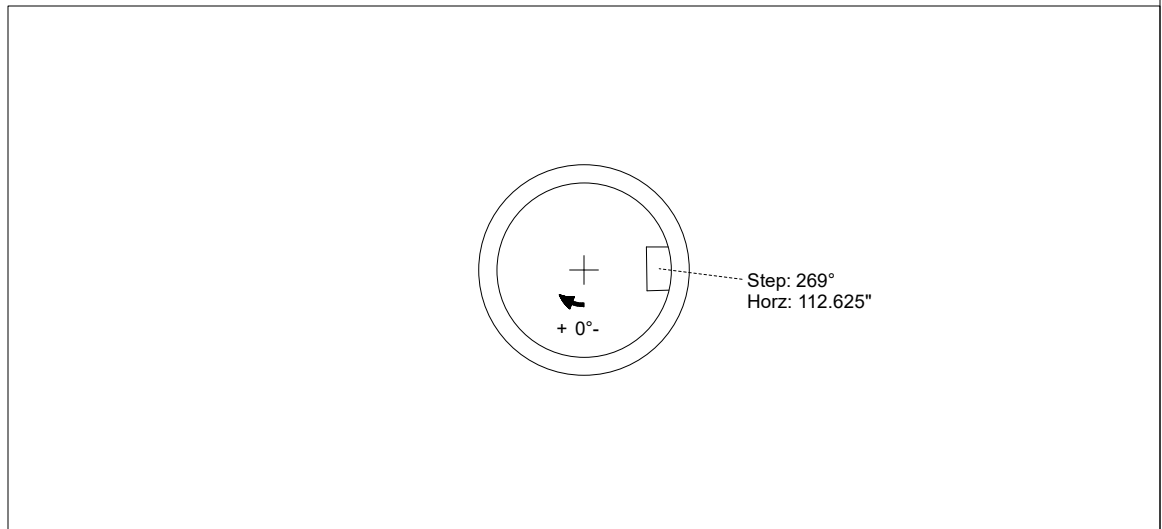
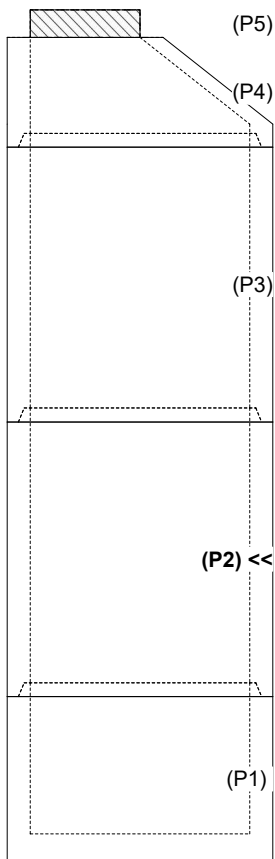
P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"	1738 lb
P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"	3330 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
3) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
14) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	15158 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CONBLOCK CDA RED ADMIXTURE REQUIRED
 5. STEPS AT 269 DEGREES
 6. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

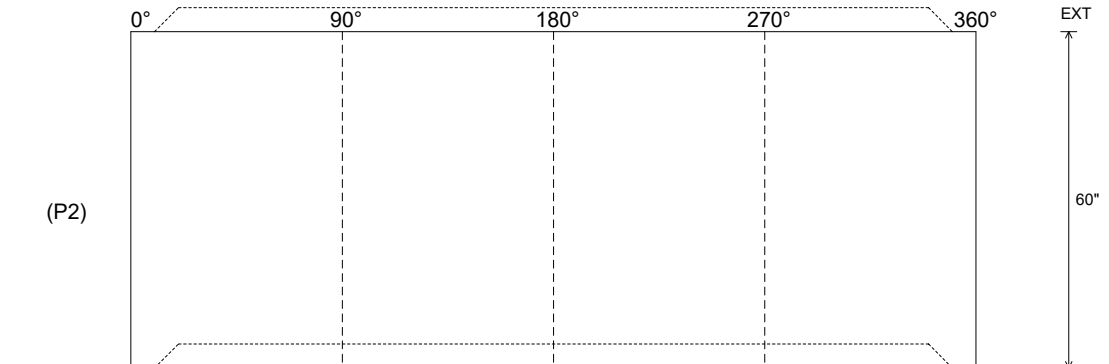
Rim: 427.11' Rim to Invert: 14.79' Slack: -0.52" Sump: 2" Step Position: 269°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 5"
 Floor Height: 0"

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

Weight (Net): 4192 lb
 Volume (Net): 1.07cu.yd

Structure ID: A-1

P2 MH048RS72CDARED

MH RISER w/ConBlock-CDA Red T/G

P5) 24" - CASTING HEIGHT - 6" P4) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 72" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 72" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30" 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1155 F/C SANITARY 3) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 17) MH Step ML-10-TDS-NCR - 10"	0 lb 1961 lb 5030 lb 5030 lb 3330 lb 1440 lb 0 lb 0 lb 0 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- Structure Total: 17057 lb
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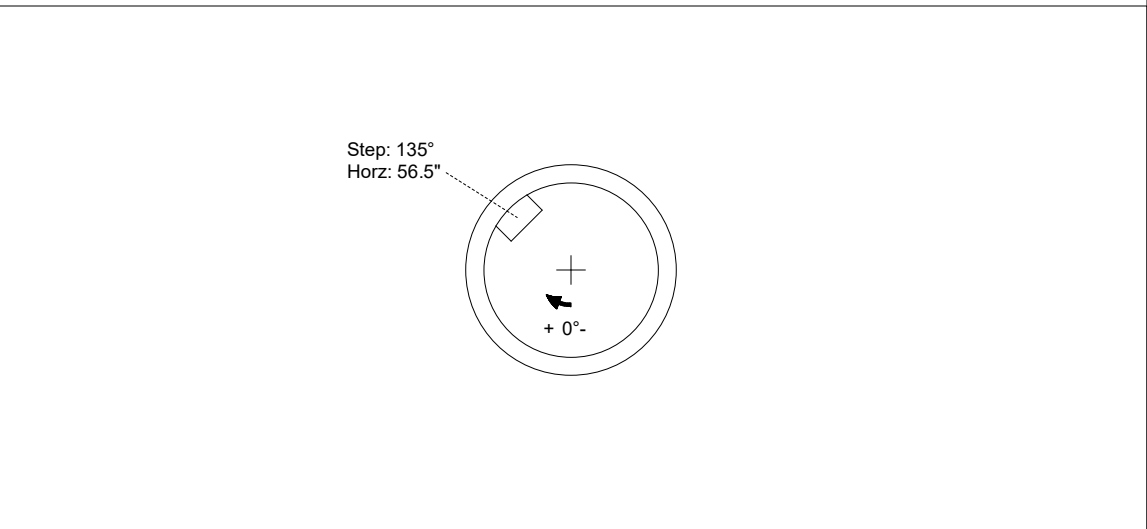
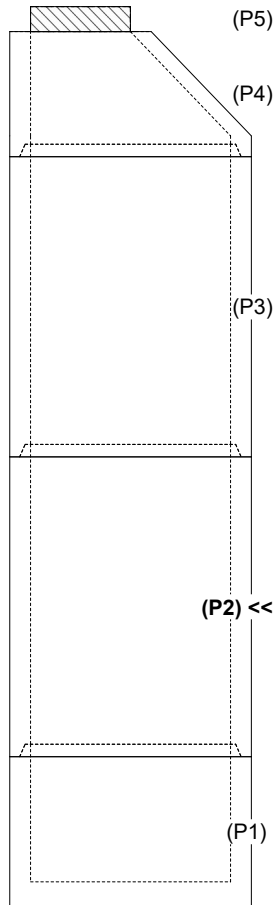
Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. CONBLOCK CDA RED ADMIXTURE REQUIRED
5. STEPS AT 135 DEGREES
6. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

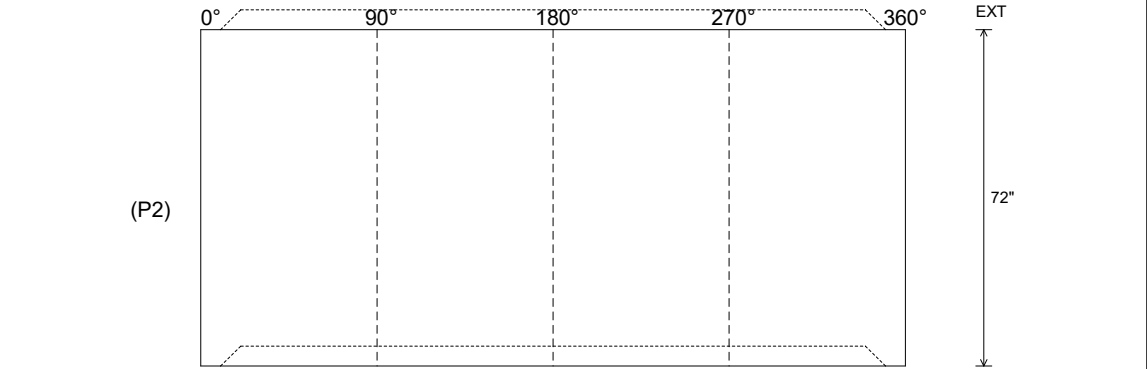
Rim: 428.02' Rim to Invert: 17.38' Slack: 0.56" Sump: 2" Step Position: 135°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 72" Height (Ext): 72"	Weight (Net): 5030 lb Volume (Net): 1.28cu.yd
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Job Name: 26-2280 - Club One Fitness Sanitary
 Job Location: Owensboro, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/21/2026 7:14:30 PM

Tech: Jared - F
 PC: A. Chambers



Structure ID: A2 SS-MH

P2 MH048CN36CDARED

ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

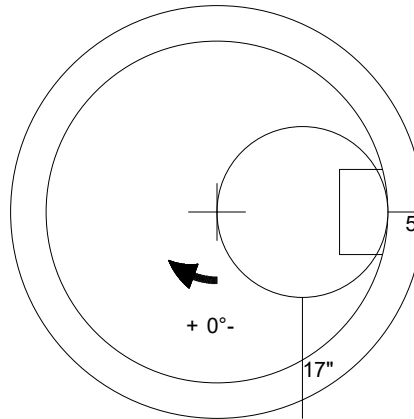
0 lb
 2251 lb
 3330 lb
 0 lb
 0 lb
 1440 lb
 258 lb
 0 lb
 0 lb
 16 lb
 0 lb

 7295 lb

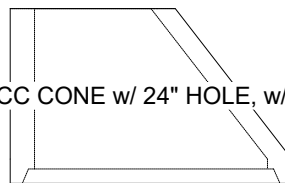
Structure Total:

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING SUPPLIED BY ICAST (HOE MC-315 F/C SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



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



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 36"

Weight (Net): 2251 lb
 Volume (Net): 0.57cu.yd

Job Name: 26-2280 - Club One Fitness Sanitary
 Job Location: Owensboro, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/21/2026 7:14:30 PM

Tech: Jared - F
 PC: A. Chambers



Structure ID: A3 SS-MH

P2 MH048CN24CDARED

ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G

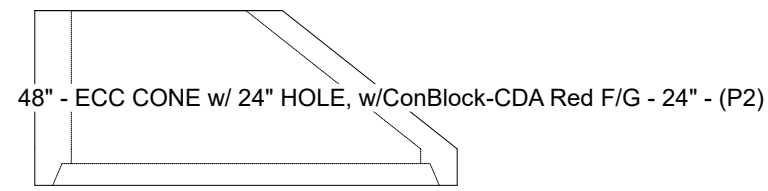
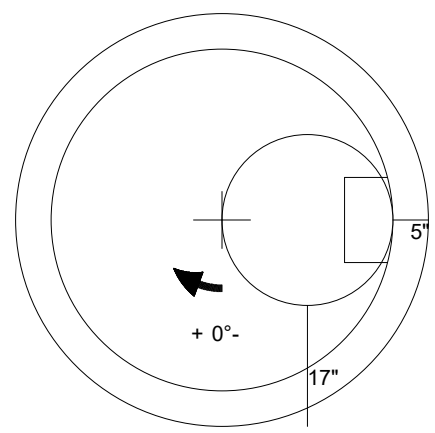
- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 1738 lb
 2911 lb
 0 lb
 0 lb
 1440 lb
 258 lb
 0 lb
 0 lb
 16 lb
 0 lb

 6363 lb

Structure Total:

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING SUPPLIED BY ICAST (HOE MC-315 F/C SANITARY).
 .
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 24"	Weight (Net): 1738 lb Volume (Net): 0.44cu.yd
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Job Name: 26-1075 - Walmart Fuel Station 00674-1008
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 5/26/2026 12:10:00 PM

Tech: Jared - A
 PC: T. Lewis



Structure ID: JB 1 (2)

P2 MH048CCN24S

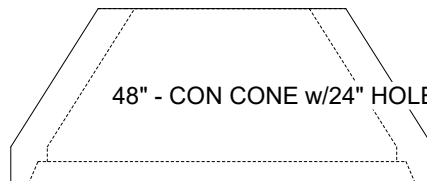
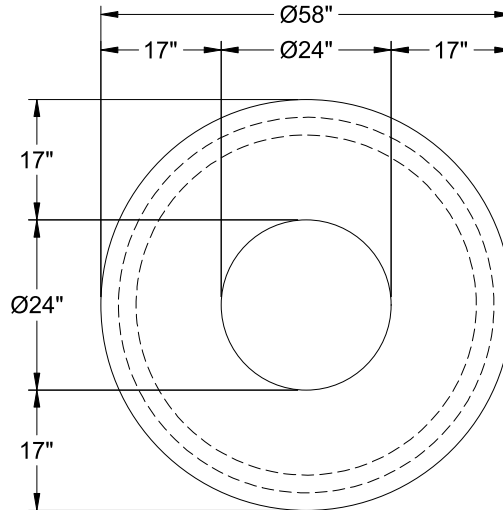
CON CONE w/24" HOLE, NO STEPS F/G

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - CON CONE w/24" HOLE, NO STEPS F/G - 24"
- P1) 48" - MH BASE EF Cust. Ht. 08"F (08"EF =74"OD) T/n - 40"
- 1) CASTING - JBS 1150 F/C STORM
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 2) Hole - 30

0 lb
 2252 lb
 5049 lb
 250 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 7552 lb

- Structure Notes:
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. NO STEPS
 5. JBS 1150 FRAME & COVER "STORM" SUPPLIED BY ICAST



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 24"

Weight (Net): 2252 lb
 Volume (Net): 0.57cu.yd

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

Plant: 100

5/26/2026 11:48:23 AM

Tech: Jared - A

PC: T. Lewis



Structure ID: JB 2 (1)

P1 MH048BAEVF

MH BASE w/FLANGE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE w/FLANGE T/n - 36"
- 1) CASTING - JBS 1150 F/C STORM
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 2) Hole - 30
- 1) Hole - 12

0 lb
 1561 lb
 4722 lb
 250 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 6533 lb

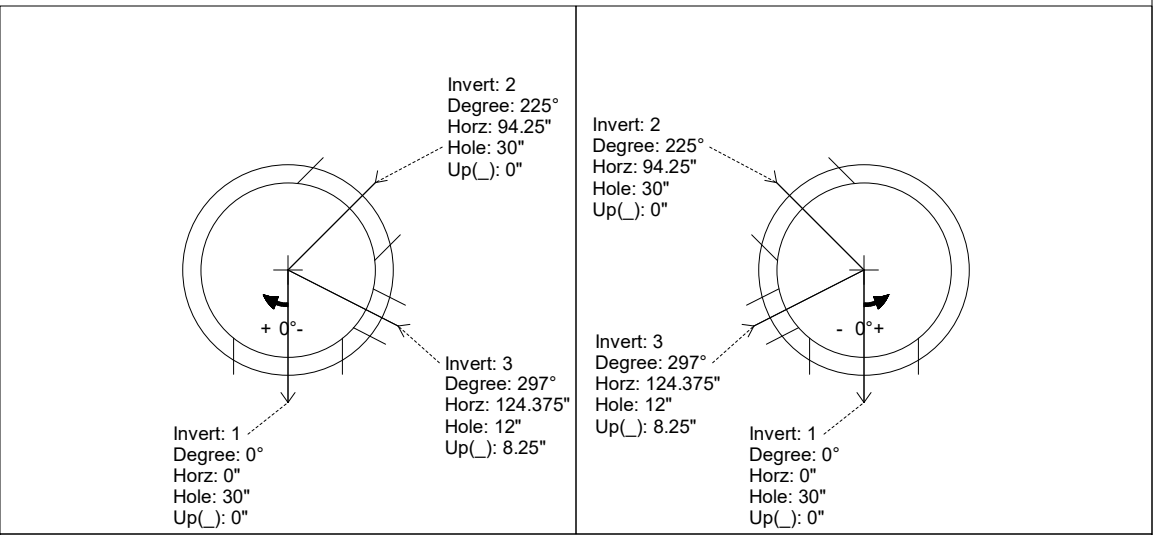
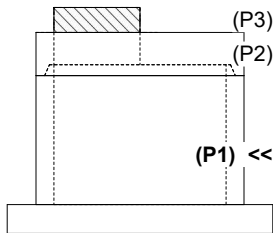
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. STORM INVERT BY OTHERS
 5. NO STEPS
 6. JBS 1150 FRAME & COVER "STORM" SUPPLIED BY ICAST

Rim: 517.2' Rim to Invert: 4.43' Slack: 0.06" Sump: 1.9" Step Position:

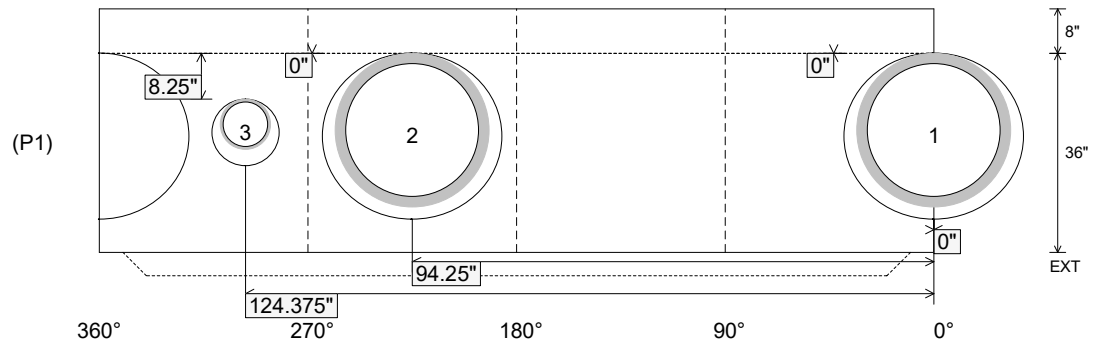
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	512.77'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"
Invert 2	512.77'	225°	113.875"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"
Invert 3	513.35'	297°	150.375"	8" HDPE	9.1"	Hole 12	12"	12.129"	8.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 8"

Height (Int): 36"
 Height (Ext): 44"

Weight (Net): 4722 lb
 Volume (Net): 1.21cu.yd

Job Name: 26-2280 - Club One Fitness Sanitary
 Job Location: Owensboro, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/21/2026 7:14:12 PM

Tech: Jared - F
 PC: A. Chambers



Structure ID: A3 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"
- 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) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 1738 lb
 2911 lb
 0 lb
 0 lb
 1440 lb
 258 lb
 0 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 6363 lb

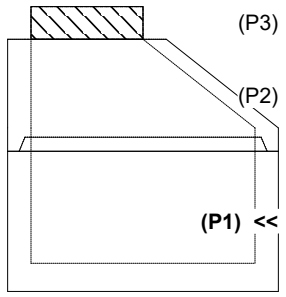
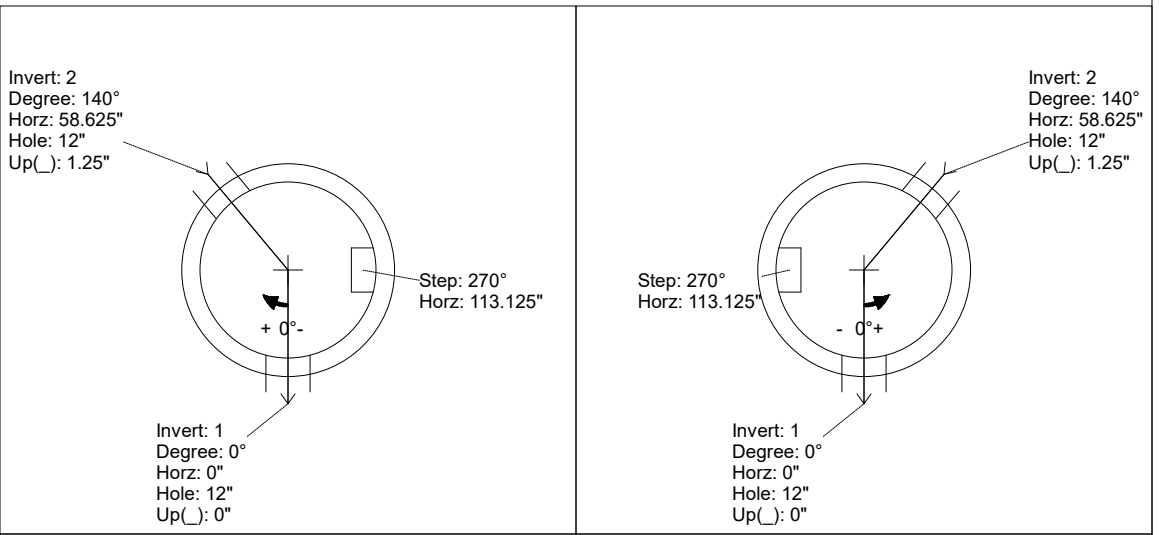
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING SUPPLIED BY ICAST (HOE MC-315 F/C SANITARY).
 .
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 392.65' Rim to Invert: 4.65' Slack: 2.8" Sump: 2" Step Position: 270

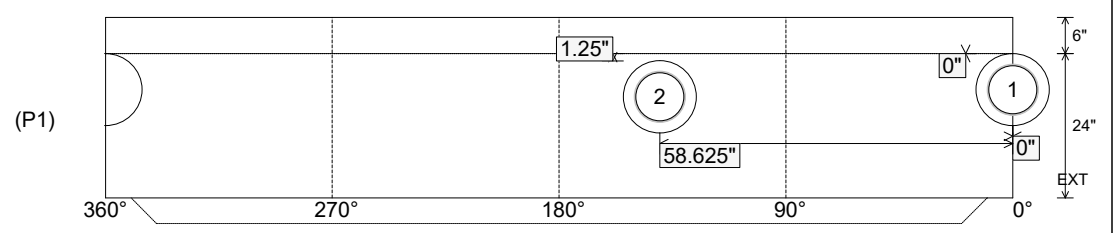
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	388'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	388.1'	140°	70.875"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



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: 26-2280 - Club One Fitness Sanitary
 Job Location: Owensboro, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/21/2026 7:14:12 PM

Tech: Jared - F
 PC: A. Chambers



Structure ID: A3 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"
- 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) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 1738 lb
 2911 lb
 0 lb
 0 lb
 1440 lb
 258 lb
 0 lb
 0 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 6363 lb

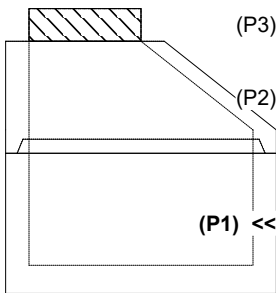
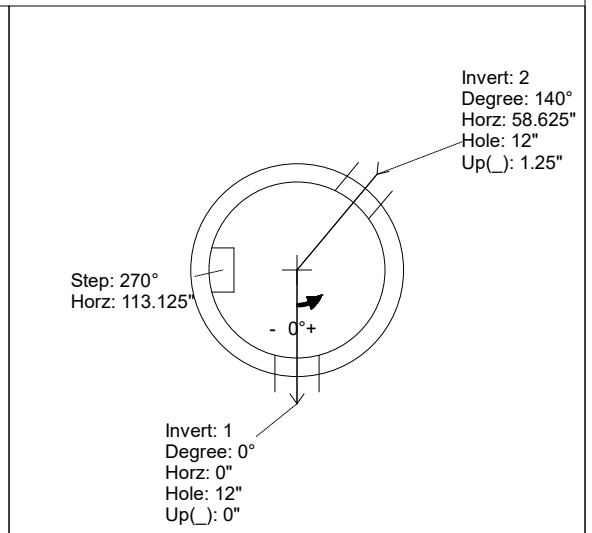
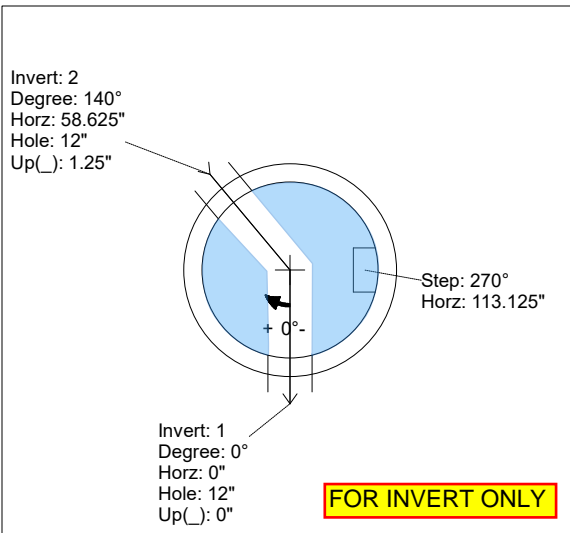
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING SUPPLIED BY ICAST (HOE MC-315 F/C SANITARY).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 392.65' Rim to Invert: 4.65' Slack: 2.8" Sump: 2" Step Position: 270

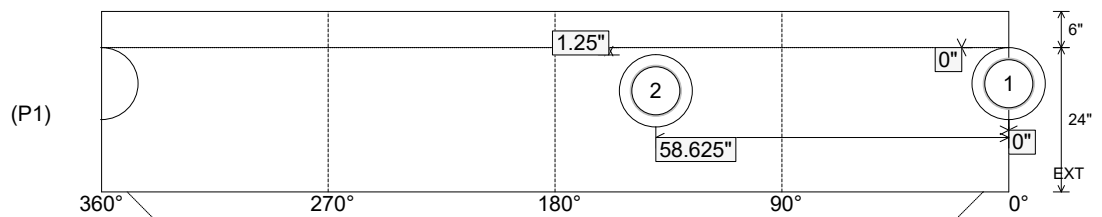
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	388'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	388.1'	140°	70.875"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



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

Job Name: 26-2280 - Club One Fitness Sanitary
 Job Location: Owensboro, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/21/2026 7:14:11 PM

Tech: Jared - F
 PC: A. Chambers



Structure ID: A2 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

Structure Notes:

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

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

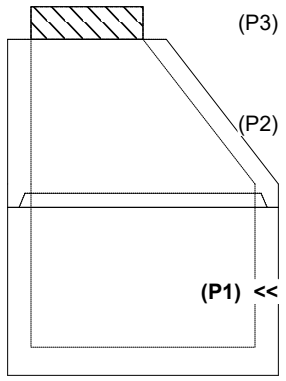
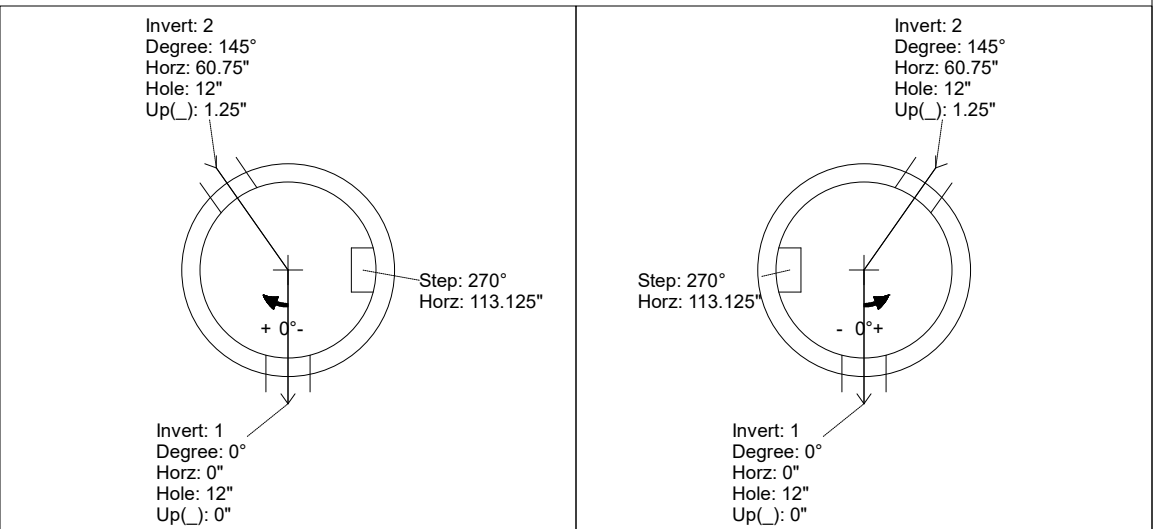
Structure Total: 7295 lb

Rim: 393.3' Rim to Invert: 6.15' Slack: 2.8" Sump: 2" Step Position: 270

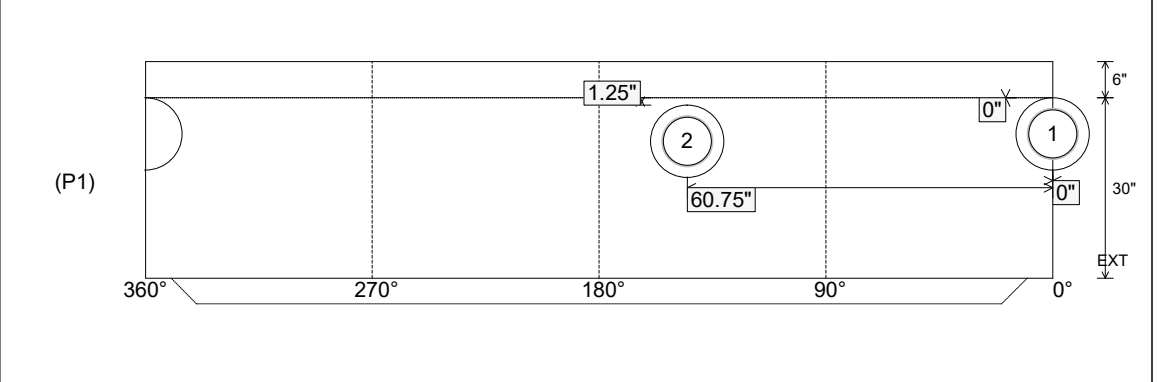
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	387.15'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	387.25'	145°	73.375"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30" Height (Ext): 36"	Weight (Net): 3330 lb Volume (Net): 0.85cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 26-2280 - Club One Fitness Sanitary
 Job Location: Owensboro, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/21/2026 7:14:11 PM

Tech: Jared - F
 PC: A. Chambers



Structure ID: A2 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

Structure Notes:

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

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

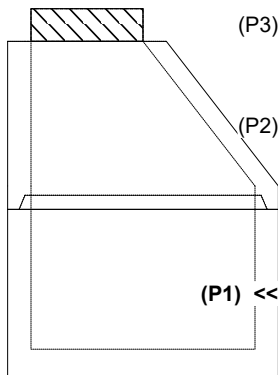
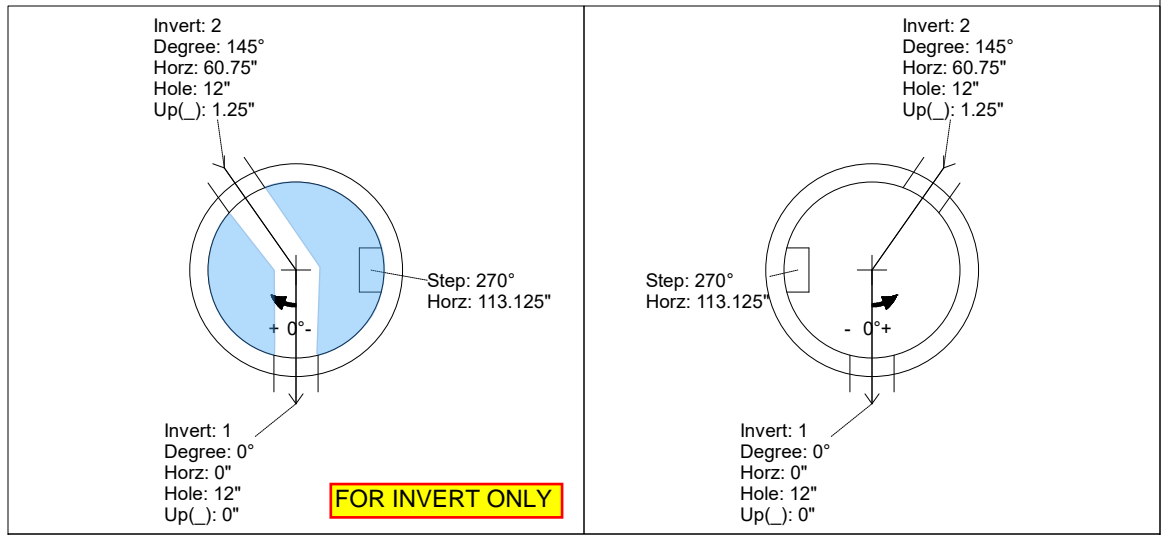
Structure Total: 7295 lb

Rim: 393.3' Rim to Invert: 6.15' Slack: 2.8' Sump: 2' Step Position: 270

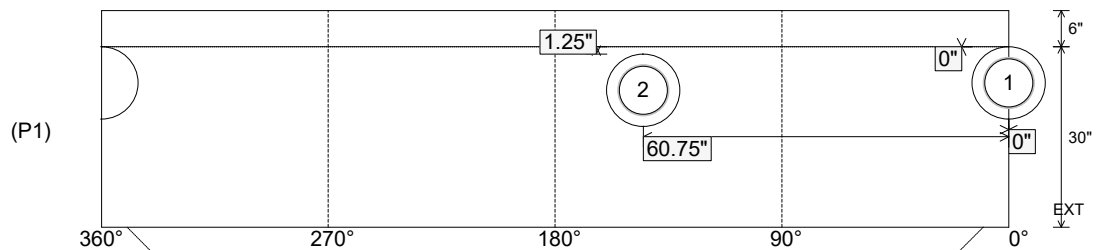
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	387.15'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	387.25'	145°	73.375"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30"
 Height (Ext): 36"

Weight (Net): 3330 lb
 Volume (Net): 0.85cu.yd

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:15:58 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-2

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"	1738 lb
P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"	3330 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
3) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
14) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	15158 lb

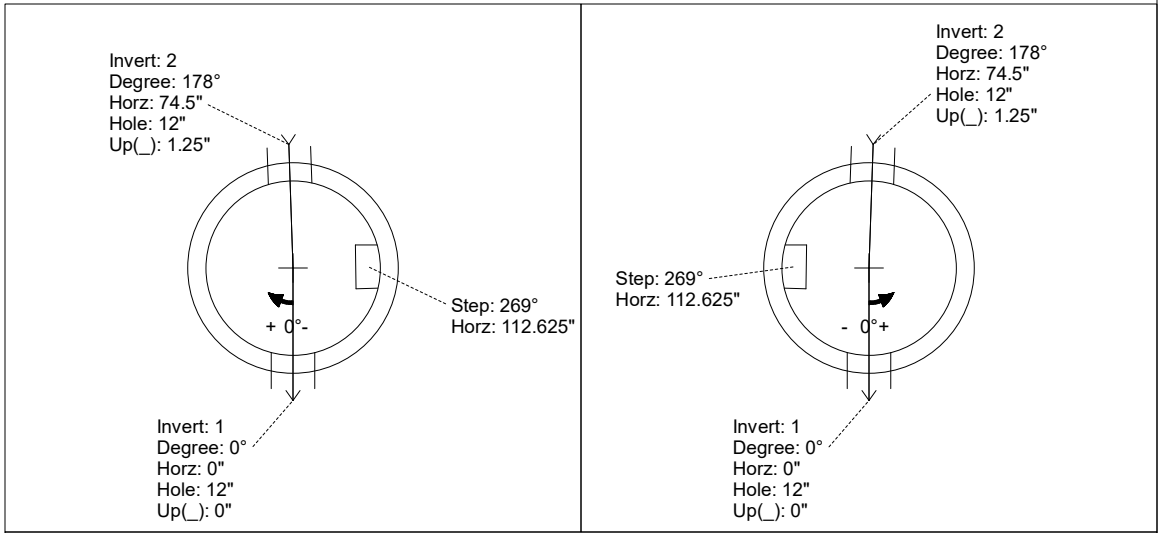
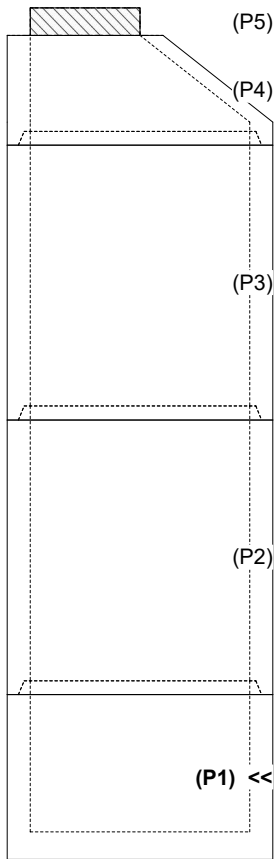
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 269 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 427.11' Rim to Invert: 14.79' Slack: -0.52" Sump: 2" Step Position: 269°

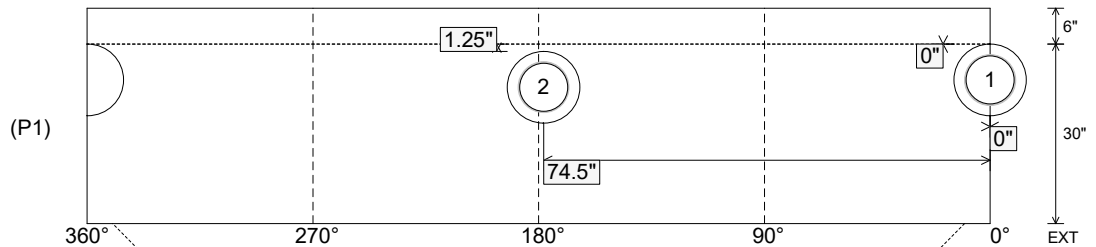
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	412.32'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	412.42'	178°	90.125"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30"
Height (Ext): 36"

Weight (Net): 3330 lb
Volume (Net): 0.85cu.yd

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)	Plant: 100	Tech: Jared - A	
Job Location: Clarksville, TN Contractor: Byard Construction, LLC	5/14/2026 2:15:58 PM	PC: A. Chambers	

Structure ID: A-2

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"	1738 lb
P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"	3330 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
3) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
14) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	15158 lb

Structure Notes:

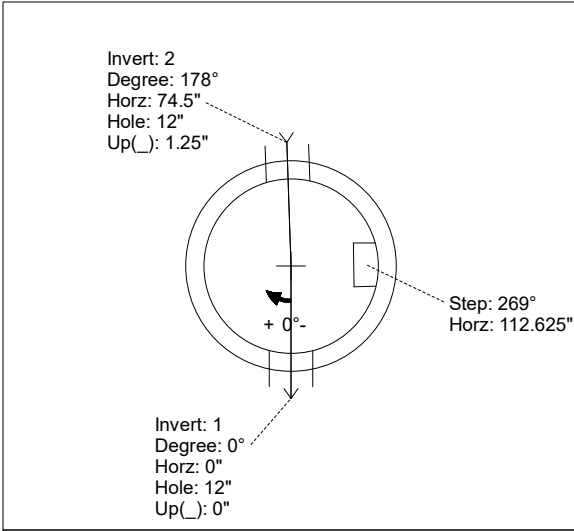
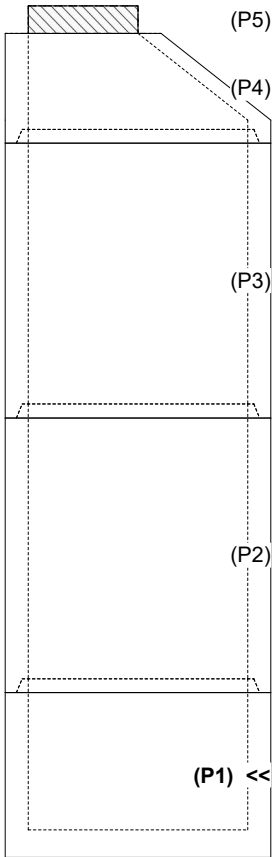
- PER ASTM C-478 SPECIFICATIONS
- CONCRETE: 4,000 PSI AT 28 DAYS
- REINFORCEMENT: PER ASTM A615
- INVERT CHANNEL REQUIRED
- CONBLOCK CDA RED ADMIXTURE REQUIRED
- STEPS AT 269 DEGREES
- JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 427.11' Rim to Invert: 14.79' Slack: -0.52" Sump: 2" Step Position: 269°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	412.32'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	412.42'	178°	90.125"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

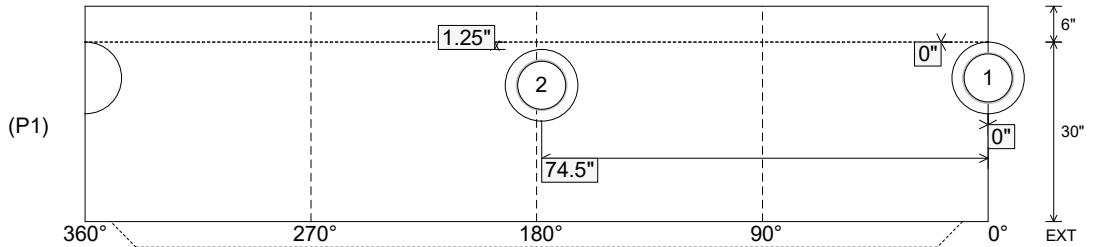
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INVERT CHANNEL
DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3330 lb Volume (Net): 0.85cu.yd
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Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:15:57 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-1

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"	1961 lb
P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"	5030 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"	5030 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"	3330 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
3) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
17) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	17057 lb

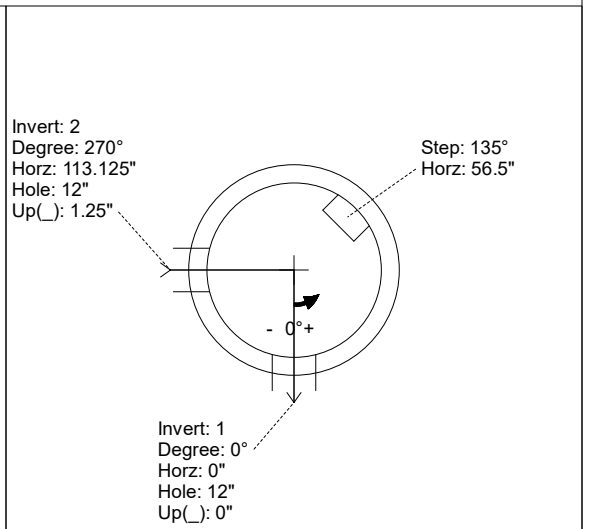
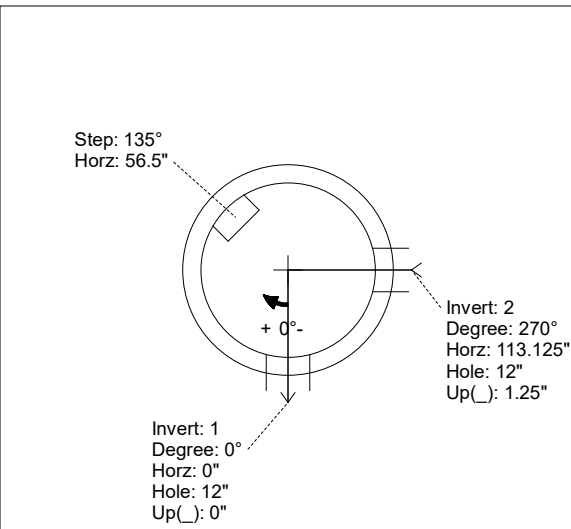
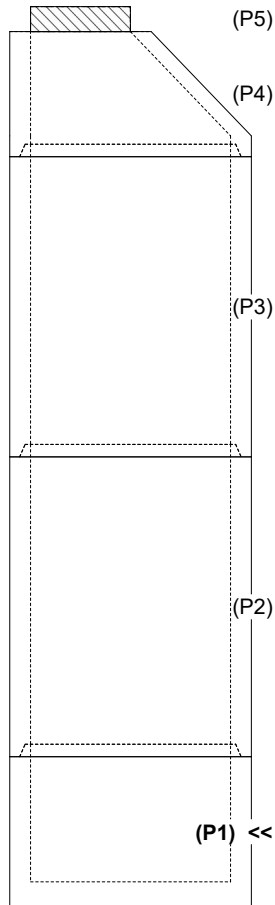
Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 135 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 428.02' Rim to Invert: 17.38' Slack: 0.56" Sump: 2" Step Position: 135°

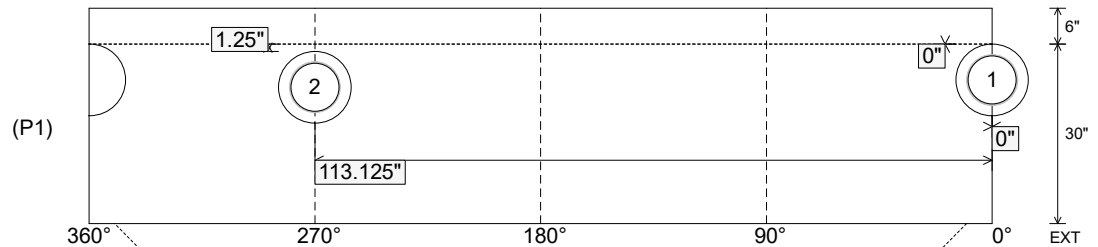
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	410.64'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	410.74'	270°	136.625"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3330 lb
 Volume (Net): 0.85cu.yd

Structure ID: A-1

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P5) 24" - CASTING HEIGHT - 6"
P4) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"
P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) ADMIXTURE CONBLOCK CDA RED
1) CASTING - JBS 1155 F/C SANITARY
3) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 12-08 NYLO
17) MH Step ML-10-TDS-NCR - 10" | 0 lb
1961 lb
5030 lb
5030 lb
3330 lb
1440 lb
0 lb
0 lb
0 lb
0 lb
250 lb
0 lb
0 lb
0 lb
16 lb
0 lb

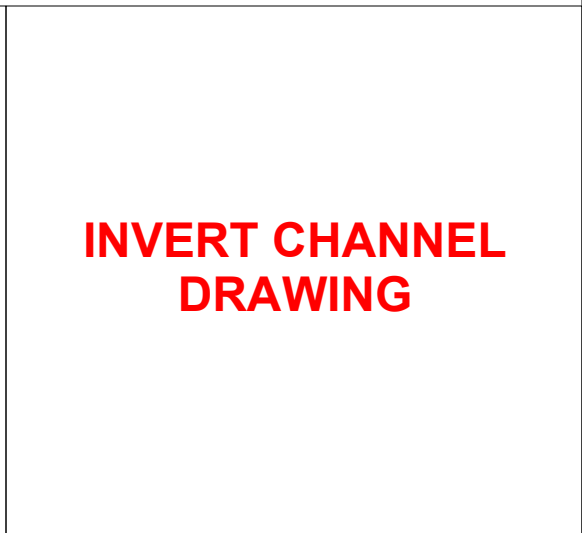
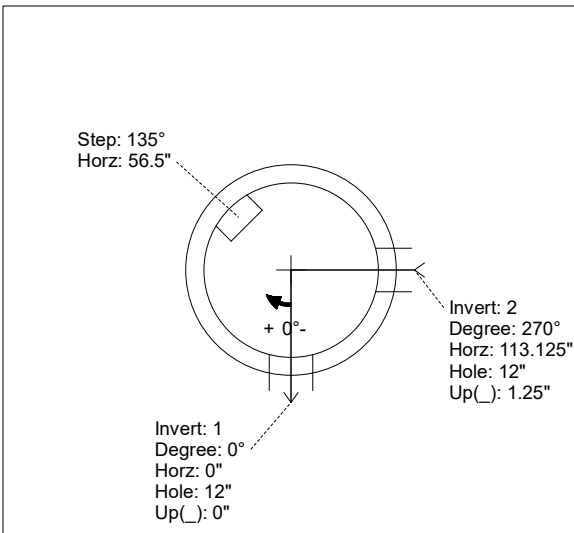
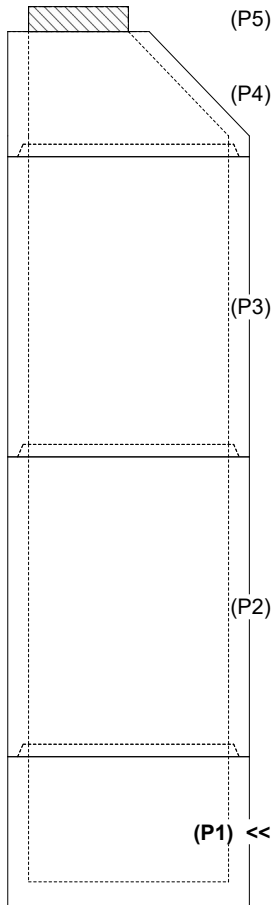
Structure Total: 17057 lb | Structure Notes:
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. INVERT CHANNEL REQUIRED
5. CONBLOCK CDA RED ADMIXTURE REQUIRED
6. STEPS AT 135 DEGREES
7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Rim: 428.02' Rim to Invert: 17.38' Slack: 0.56" Sump: 2" Step Position: 135°

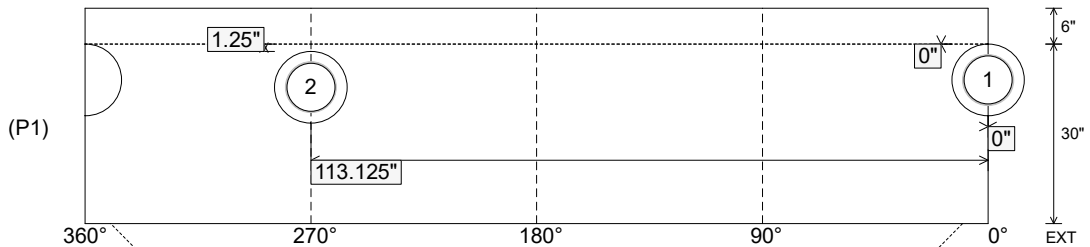
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1	410.64'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	410.74'	270°	136.625"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3330 lb Volume (Net): 0.85cu.yd
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Job Name: 26-1322B - KYTC Warren Co Call 104 (261503)
 Job Location: Bowling Green, KY
 Contractor: Cumberland Pipeline LLC

Plant: 100

Tech: Jared - A

4/21/2026 3:36:58 PM

PC: Celina Goff



Structure ID: 230-72 SS-MH

P2 MH048RS24

MH RISER T/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P2) 48" - MH RISER T/G - 24"
- P1) 48" - MH BASE (08"F) T/n - 28"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) CASTING - HOE MC-375 F/C BGMU Sanitary
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) Kor-N-Seal1 - S106-20BW
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb
 3000 lb
 1677 lb
 3459 lb
 1440 lb
 0 lb
 0 lb
 271 lb
 0 lb
 13 lb
 0 lb

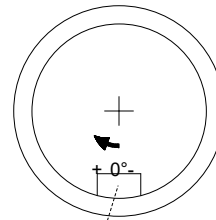
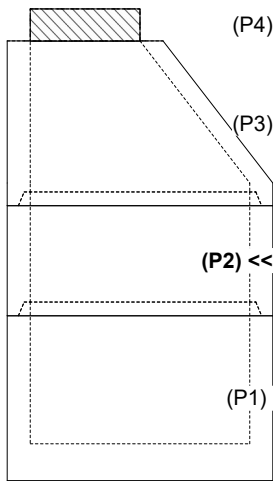
 Structure Total: 9860 lb

Structure Notes:
 1. PER KYTC & ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. STEPS AT 0 DEGREES
 5. HOE MC-375 FRAME & COVER "BGMU SANITARY" SUPPLIED BY ICAST

Rim: 484.22' Rim to Invert: 7.82' Slack: 1.34" Sump: 2.5" Step Position: 0°

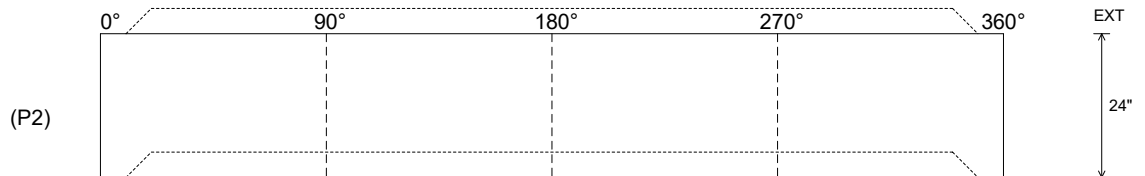
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



Step: 0°
 Horz: 0"

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 5"
 Floor Height: 0"

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

Weight (Net): 1677 lb
 Volume (Net): 0.43cu.yd

Job Name: 24-4112 - Ohio River Service Area Rehab
 Job Location: Louisville, KY 40222
 Contractor: TRC, LLC

Plant: Beaver Dam, KY
 5/13/2026 2:58:11 PM

Tech: K. Cardwell
 PC: A. Wells



Structure ID: 955

P3 MH048CN42

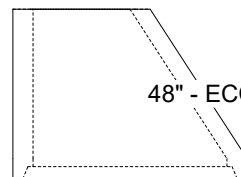
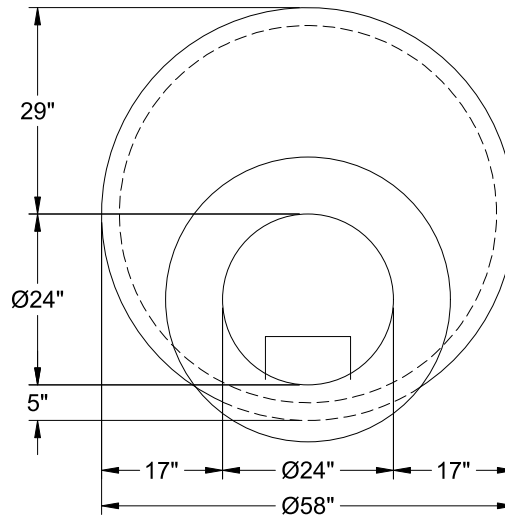
ECC CONE w/ 24" HOLE F/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - ECC CONE w/ 24" HOLE F/G - 42"
- P2) 48" - MH RISER T/G - 36"
- P1) 48" - MH BASE T/n - 24"
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 NYLO
- 8) MH Step ML-10-TDS-NCR - 10"

0 lb
 3200 lb
 2515 lb
 2863 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 10042 lb

Structure Notes:
 STATION: 3+62.99 CLUB DR
 1. PER MSD & ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 5,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. STEPS REQUIRED
 5. 7" CASTING SUPPLIED BY OTHERS



48" - ECC CONE w/ 24" HOLE F/G - 42" - (P3)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 42"

Weight (Net): 3200 lb
 Volume (Net): 0.5cu.yd

Job Name: 24-4112 - Ohio River Service Area Rehab
 Job Location: Louisville, KY 40222
 Contractor: TRC, LLC

Plant: Beaver Dam, KY

Tech: K. Cardwell

5/13/2026 2:57:48 PM

PC: A. Wells



Structure ID: 955

P2 MH048RS36

MH RISER T/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - ECC CONE w/ 24" HOLE F/G - 42"
- P2) 48" - MH RISER T/G - 36"
- P1) 48" - MH BASE T/n - 24"

- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 NYLO
- 8) MH Step ML-10-TDS-NCR - 10"

0 lb
 3200 lb
 2515 lb
 2863 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 10042 lb

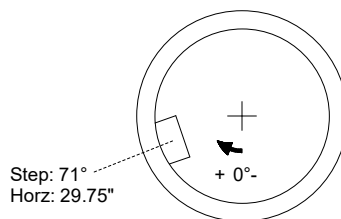
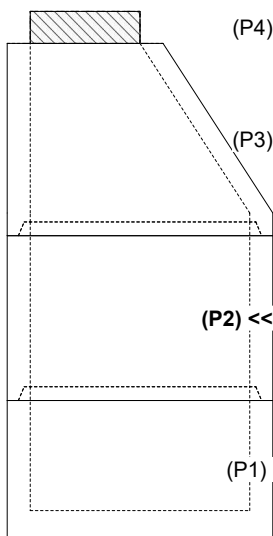
Structure Notes:

- STATION: 3+62.99 CLUB DR
- 1. PER MSD & ASTM C-478 SPECIFICATIONS
- 2. CONCRETE: 5,000 PSI AT 28 DAYS
- 3. REINFORCEMENT: PER ASTM A615
- 4. STEPS AT 71 DEGREES
- 5. 7" CASTING SUPPLIED BY OTHERS

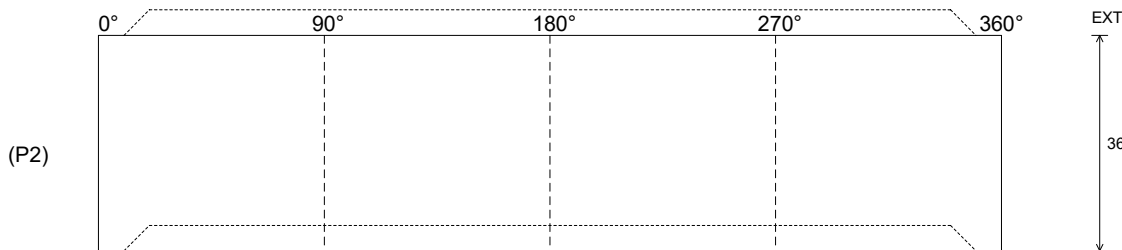
Rim: 666.7' Rim to Invert: 8.98' Slack: 1.76" Sump: 3" Step Position: 71°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 5"
 Floor Height: 0"

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

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

Job Name: 26-2131 ADS Zaxby's
 Job Location: Paris, TN
 Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam
 5/20/2026 10:38:55 AM

Tech: S. Felletter
 PC: T. Lewis



Structure ID: A1

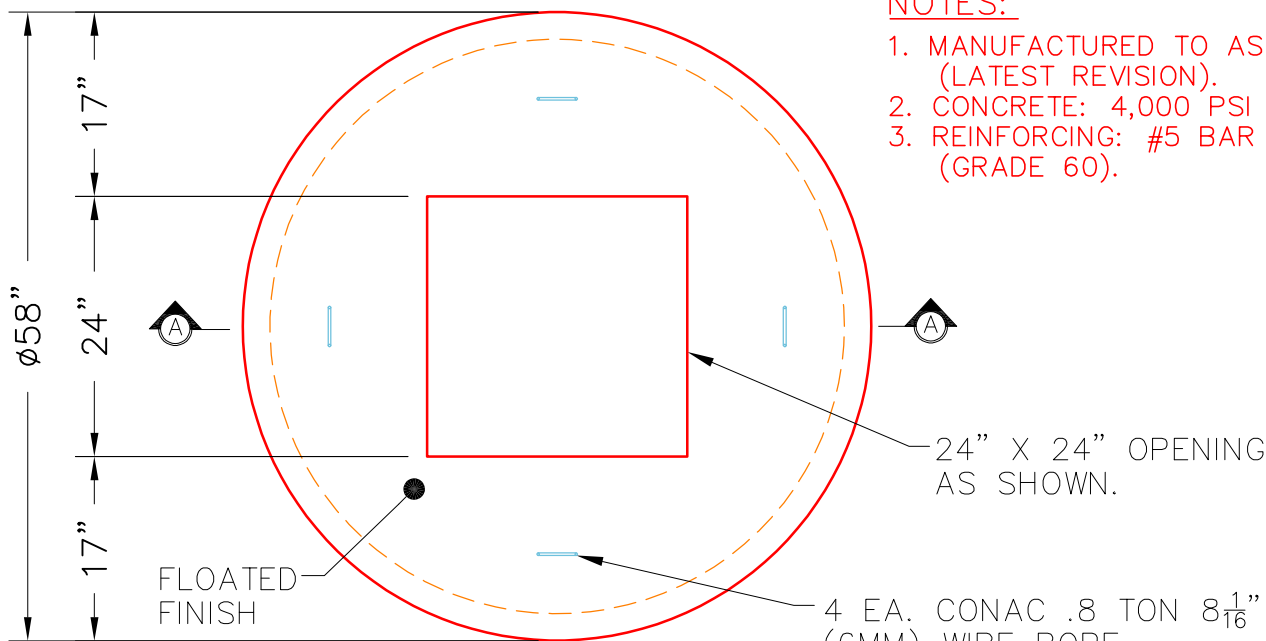
P4 MH048LD12-24SQ

MH FLAT TOP w/24"x24" Hole F/G

- P5) 24" x 24" - CASTING HEIGHT - 4"
- P4) 48" - MH FLAT TOP w/24"x24" Hole F/G - 12"
- P3) 48" - MH RISER SPECIAL T/G - 66"
- P2) 48" - MH RISER Custom Ht T/G - 41"
- P1) 48" - MH BASE T/h - 18"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ASSEMBLY REQUIRED
- 1) CASTING - HOE 280T F/G
- 3) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" x 24" - Conseal CS-102 1.00" (Double)
- 1) Hole - 26
- 1) Hole - 24

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> 0 lb 1500 lb 4180 lb 2864 lb 2588 lb 0 lb 0 lb 0 lb 182 lb 0 lb 0 lb 0 lb 0 lb 0 lb | <p>Structure Notes:</p> <ol style="list-style-type: none"> 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 280T F/G). 5. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED BEFORE INSTALL. 6. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE. <p>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.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

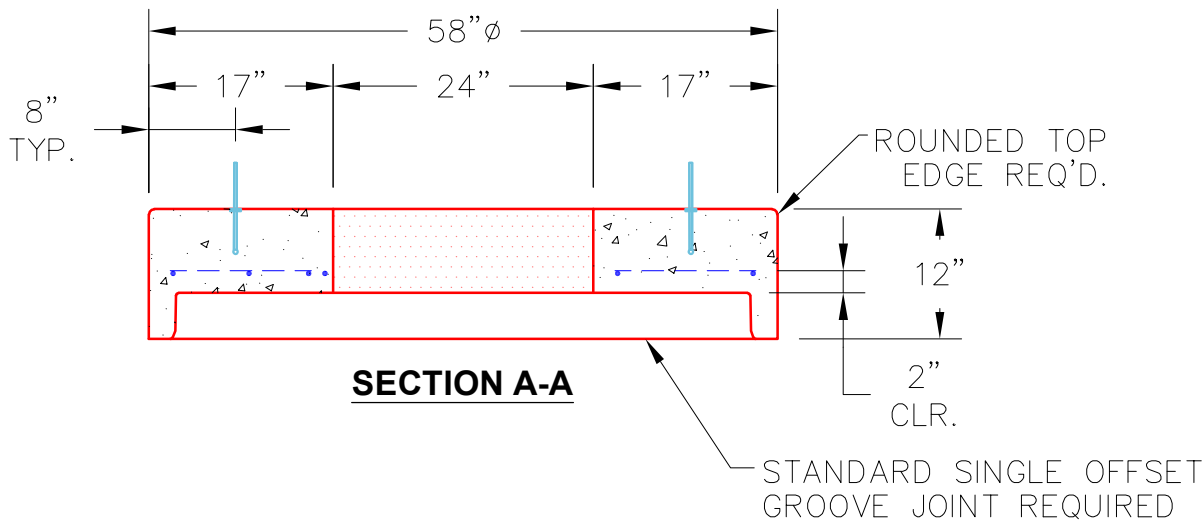
Structure Total: 11314 lb



NOTES:

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

PLAN VIEW



SECTION A-A

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 12"	Weight (Net): 1500 lb Volume (Net): 0.37cu.yd
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Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 11:42:30 AM

Tech: S. Felletter
 PC:



Structure ID: MH 3 (2+08)

P1 MH048BAVF

MH BASE Custom Ht T/n

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"	1561 lb
P1) 48" - MH BASE Custom Ht T/n - 39"	3789 lb
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT	1075 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) Chimney Seal - Trelleborg FlexRib Chimney Seal	10 lb
1) CASTING - HOE WT-420-MSD F/C Storm	340 lb
1) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 18M DD	16 lb
1) PSX - 12-06 NYLO	8 lb
3) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	6799 lb

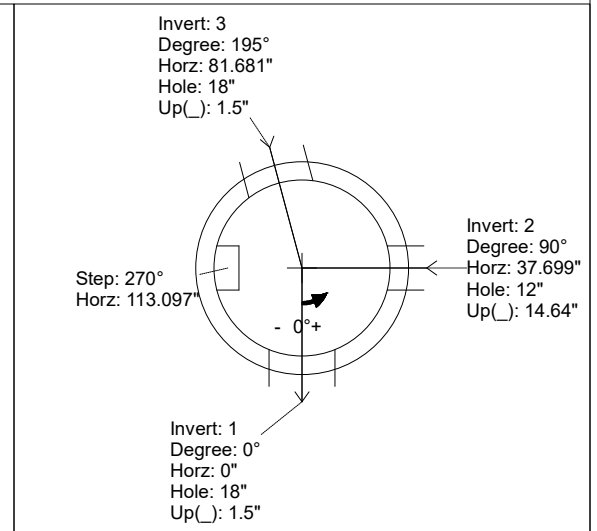
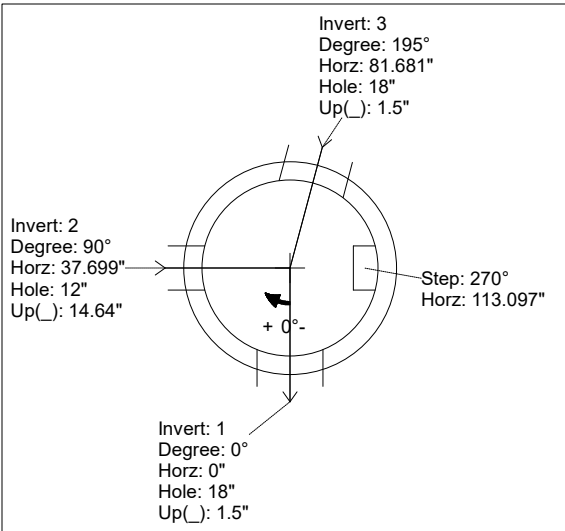
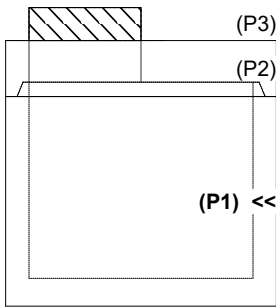
Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 413.88' Rim to Invert: 4.6' Slack: 0.2" Sump: 3" Step Position: 270°

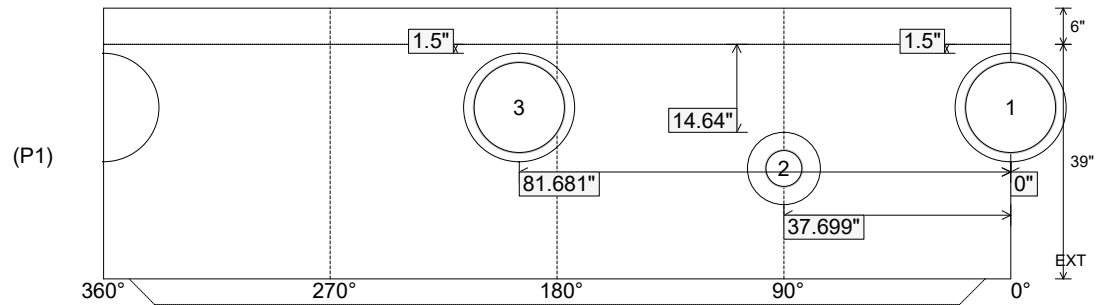
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	409.28'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	410.5'	90°	45.553"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	14.64"	0"
Invert 3	409.28'	195°	98.698"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 39" Height (Ext): 45"	Weight (Net): 3789 lb Volume (Net): 0.97cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 11:42:30 AM

Tech: S. Felletter
 PC:



Structure ID: MH 3 (2+08)

P1 MH048BAVF

MH BASE Custom Ht T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE Custom Ht T/n - 39"
- 1) **48" - STORM INVERT CHANNEL - 1/4 HEIGHT**
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 18M DD
- 1) PSX - 12-06 NYLO
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 1561 lb
 3789 lb
 1075 lb
 0 lb
 0 lb
 10 lb
 340 lb
 0 lb
 0 lb
 16 lb
 8 lb
 0 lb

 Structure Total: 6799 lb

Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Invert channel drawing
 1/4 Height invert

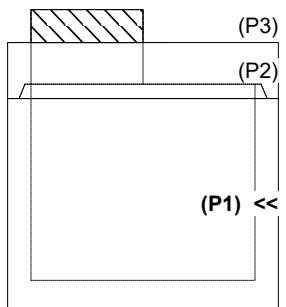
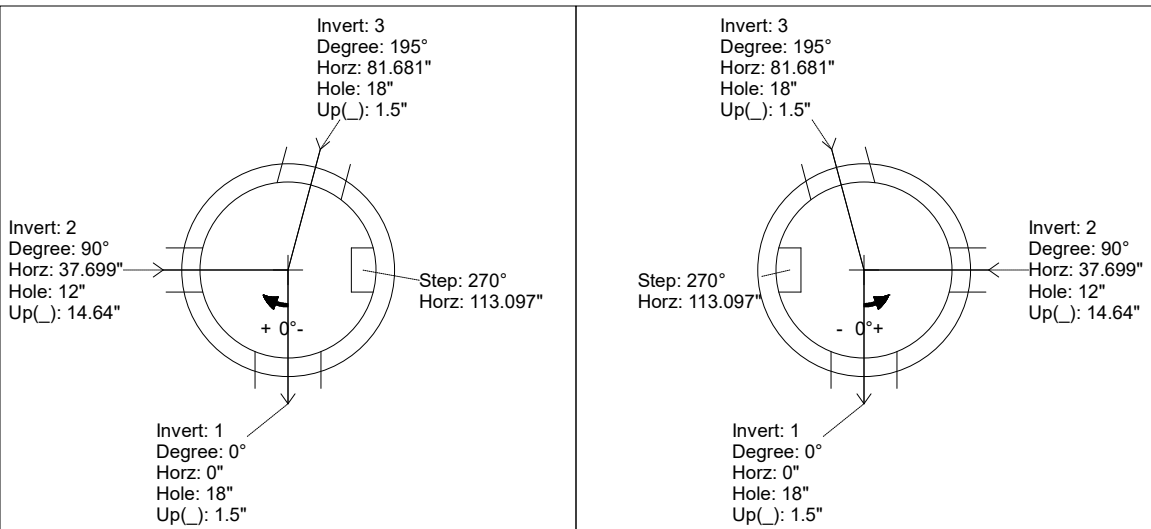
Structure Total: 6799 lb

Rim: 413.88' Rim to Invert: 4.6' Slack: 0.2" Sump: 3" Step Position: 270°

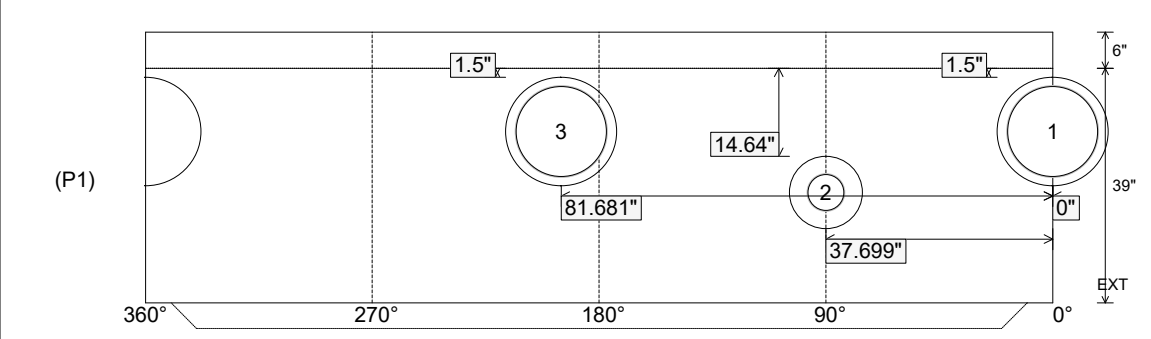
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	409.28'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	410.5'	90°	45.553"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	14.64"	0"
Invert 3	409.28'	195°	98.698"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 39" Height (Ext): 45"	Weight (Net): 3789 lb Volume (Net): 0.97cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:26 AM

Tech: S. Felletter
 PC:



Structure ID: MH 1 (3+75)

P1 MH048BA30

MH BASE T/n

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 48" - ECC CONE w/ 24" HOLE F/G - 36"	3000 lb
P1) 48" - MH BASE T/n - 30"	3269 lb
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT	1075 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) Chimney Seal - Trelleborg FlexRib Chimney Seal	10 lb
1) CASTING - HOE WT-420-MSD F/C Storm	340 lb
1) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) PSX - 18M DD	8 lb
1) PSX - 12-06 NYLO	8 lb
5) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	7710 lb

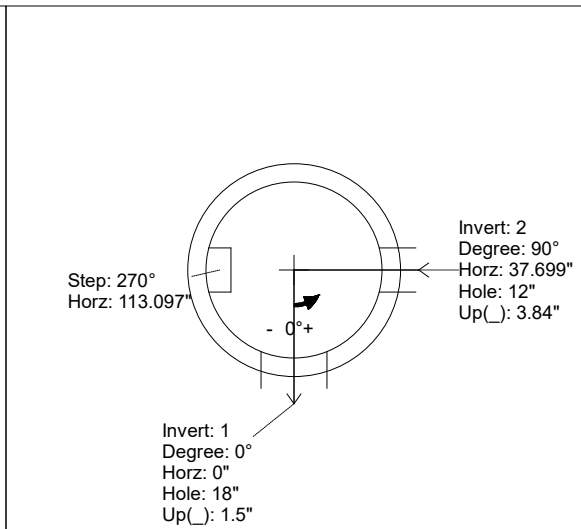
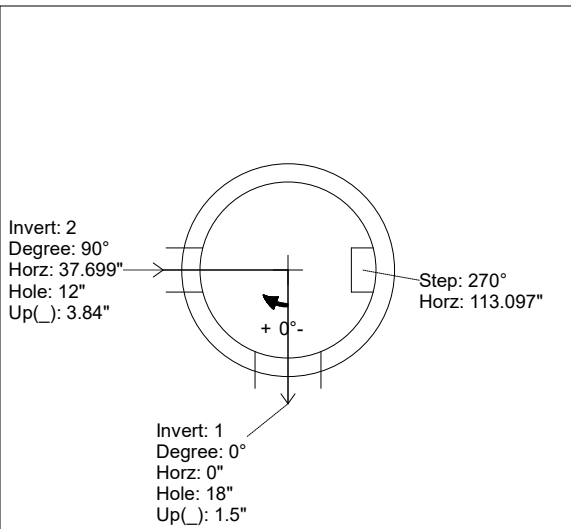
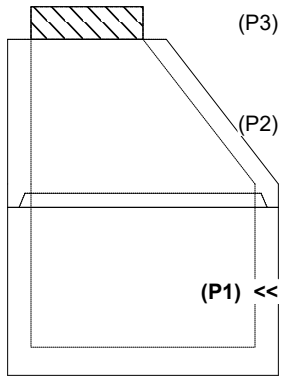
Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 418.16' Rim to Invert: 5.98' Slack: 1.76" Sump: 3" Step Position: 270°

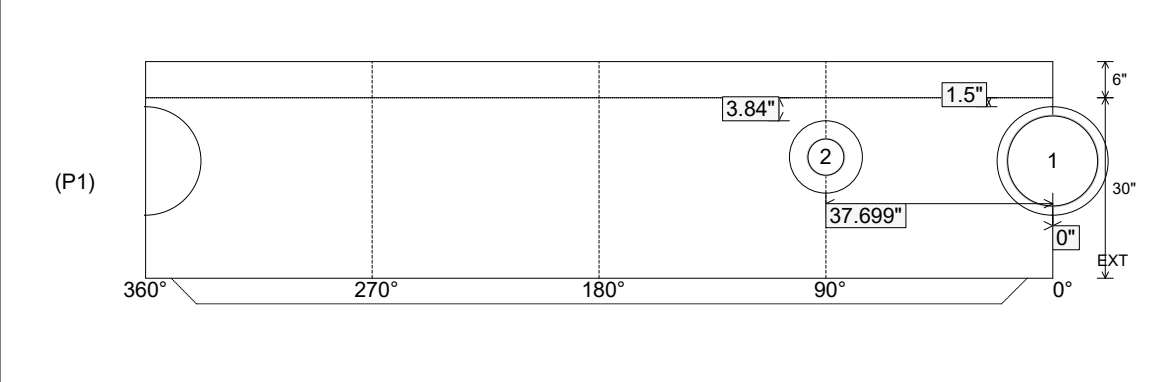
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	412.18'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	412.5'	90°	45.553"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	3.84"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3269 lb Volume (Net): 0.84cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:26 AM

Tech: S. Felletter
 PC:



Structure ID: MH 1 (3+75)

P1 MH048BA30

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE T/n - 30"
- 1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) PSX - 18M DD
- 1) PSX - 12-06 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 3000 lb
 3269 lb
 1075 lb
 0 lb
 0 lb
 10 lb
 340 lb
 0 lb
 8 lb
 8 lb
 0 lb

Structure Total: 7710 lb

Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

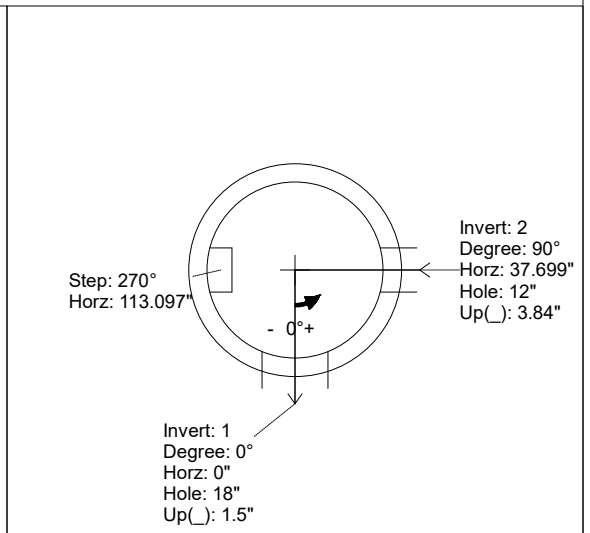
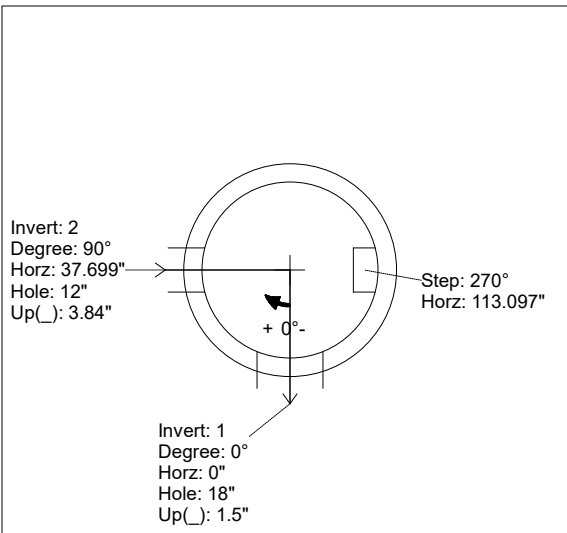
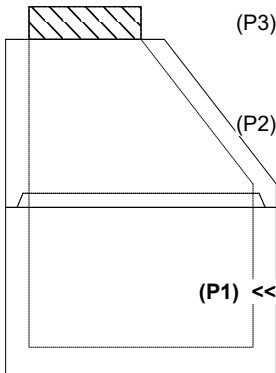
Invert channel drawing
 1/4 Height invert

Rim: 418.16' Rim to Invert: 5.98' Slack: 1.76" Sump: 3" Step Position: 270°

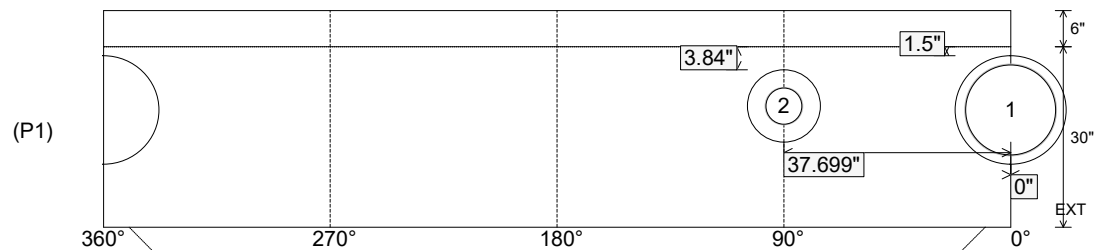
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	412.18'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	412.5'	90°	45.553"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	3.84"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

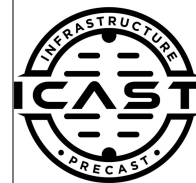
Height (Int): 30"
 Height (Ext): 36"

Weight (Net): 3269 lb
 Volume (Net): 0.84cu.yd

Job Name: 25-4299 - Seneca High School
 Job Location: Louisville, KY
 Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100
 2/16/2026 10:16:35 AM

Tech: J. Horsley
 PC: J. Jarvis



Structure ID: E5

P1 MH048BAVF

MH BASE Custom Ht F/n

- P3) 18" x 18" - CASTING HEIGHT - 4"
- P2) 48" - MH FLAT TOP w/18"x18" Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 33"
- 1) 48" - Conseal CS-102 1.00"
- 1) 18" x 18" - Conseal CS-102 1.00"
- 1) Hole - 16

0 lb
 1362 lb
 3550 lb
 0 lb
 0 lb
 0 lb

 0 lb

Structure Total: 4911 lb

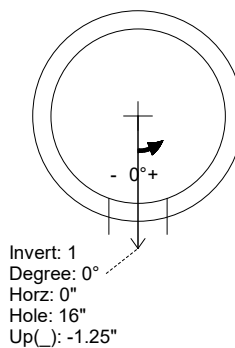
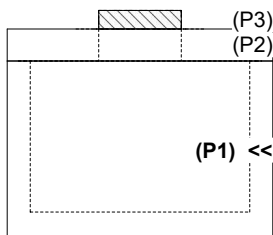
- Structure Notes:**
1. PER LOUISVILLE MSD / ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. NO STORM INVERT
 5. NO STEPS
 6. HOE 165-A FRAME & GRATE SUPPLIED BY OTHERS

Rim: 489.7' Rim to Invert: 3.7' Slack: 0.4" Sump: 0" Step Position:

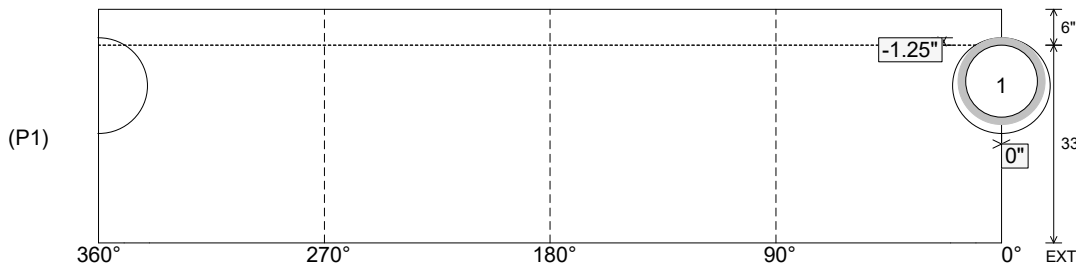
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	486'	0°	0"	12" HDPE	14.5"	Hole 16	16"	16.312"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 33"
 Height (Ext): 39"

Weight (Net): 3550 lb
 Volume (Net): 0.91cu.yd

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:29 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-A3

P1 MH048BA42

MH BASE T/n

- P4) 30" x 30" - CASTING HEIGHT - 6"
- P3) 30" x 30" - GRADE RING F/F - 3"
- P2) 48" - MH FLAT TOP w/30"x30" Hole F/G - 12"
- P1) 48" - MH BASE T/n - 42"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 2) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 32
- 1) Hole - 26
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 218 lb
 1350 lb
 3304 lb
 619 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 5491 lb

- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 3101 SINGLE SET (F/G/H))

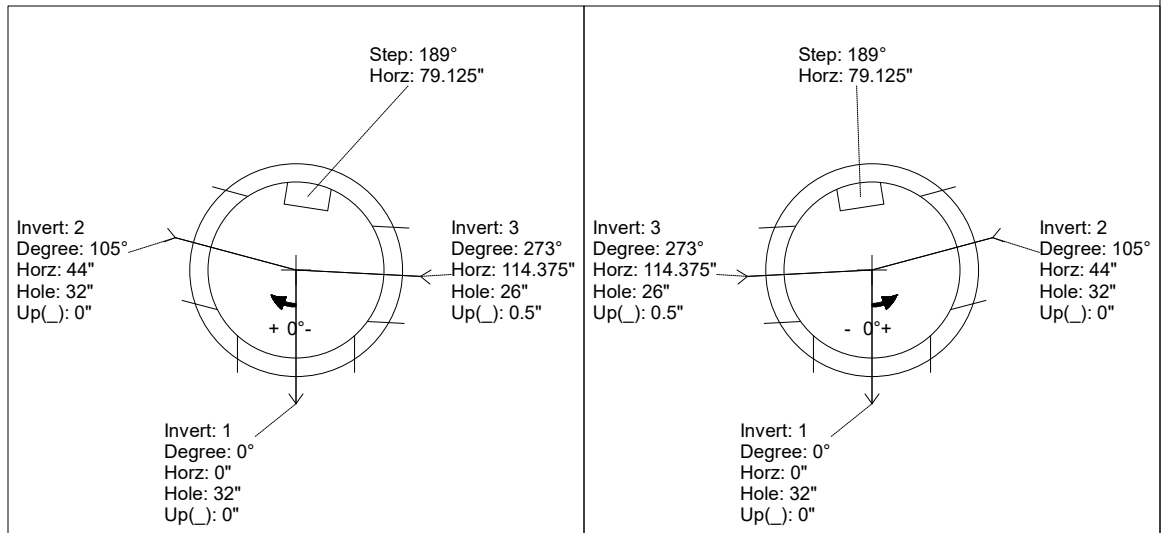
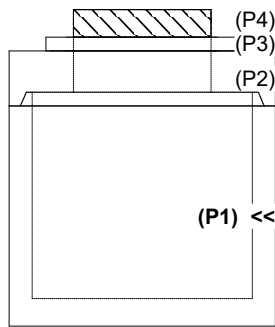
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 470.17' Rim to Invert: 5.06' Slack: 0.72' Sump: 3' Step Position: 189°

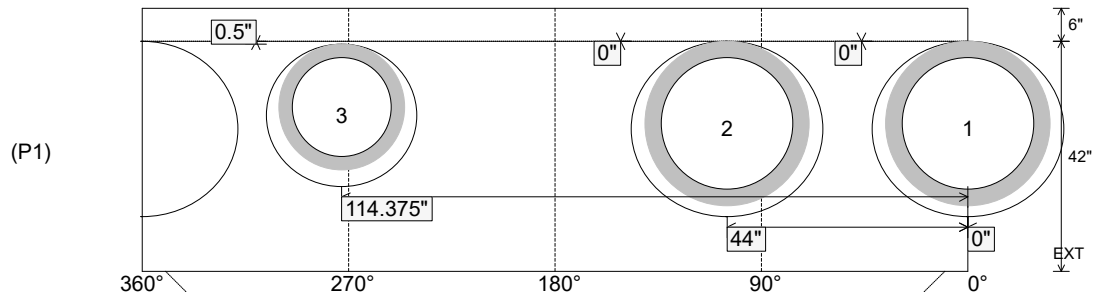
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	465.11'	0°	0"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 2	465.11'	105°	53.125"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 3	465.11'	273°	138.125"	18" RCP B WALL	23"	Hole 26	26"	27.476"	0.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 42"
 Height (Ext): 48"

Weight (Net): 3304 lb
 Volume (Net): 0.84cu.yd

Job Name: 26-1219 - 1662 Pinkerton Road
 Job Location: Brentwood, TN
 Contractor: Hayes Pipe Supply

Plant: 100
 5/11/2026 5:32:37 PM

Tech: Jared - F
 PC: T. Ryan



Structure ID: 5-9 SS-MH

P3 MH048CCN36CDARED

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

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - CON 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 - 30"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) PSX - 12-08 NYLO
- 2) PSX - 12-06 NYLO
- 10) MH Step ML-10-TDS-NCR - 10"

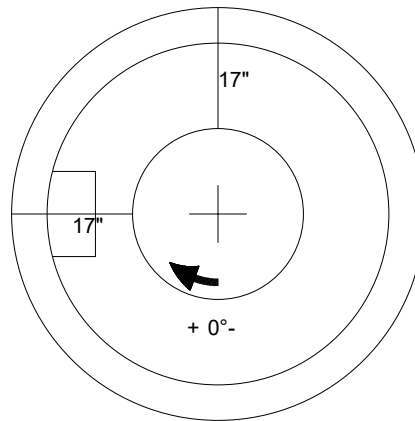
0 lb
 2251 lb
 4192 lb
 3282 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 8 lb
 16 lb
 0 lb

 Structure Total: 11189 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING SUPPLIED BY OTHERS.

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



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



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 36"

Weight (Net): 2251 lb
 Volume (Net): 0.57cu.yd

Structure ID: 223-75 SS-MH

P1 MH048BA30

MH BASE (08"F) T/n

P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 24" P2) 48" - MH RISER SPECIAL T/G - 36" P1) 48" - MH BASE (08"F) T/n - 30" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-375 F/C BGMU Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 1) Kor-N-Seal2 - S206-22L 1) Kor-N-Seal1 - S106-20BW 6) MH Step ML-10-TDS-NCR - 10"	<table style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">1550 lb</td><td></td></tr> <tr><td style="text-align: right;">2380 lb</td><td></td></tr> <tr><td style="text-align: right;">3705 lb</td><td></td></tr> <tr><td style="text-align: right;">1440 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">271 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">6 lb</td><td></td></tr> <tr><td style="text-align: right;">6 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">-----</td><td></td></tr> <tr><td style="text-align: right;">Structure Total:</td><td style="text-align: right;">9358 lb</td></tr> </table>	0 lb		1550 lb		2380 lb		3705 lb		1440 lb		0 lb		0 lb		271 lb		0 lb		6 lb		6 lb		0 lb		-----		Structure Total:	9358 lb
0 lb																													
1550 lb																													
2380 lb																													
3705 lb																													
1440 lb																													
0 lb																													
0 lb																													
271 lb																													
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6 lb																													
0 lb																													

Structure Total:	9358 lb																												

Structure Notes:

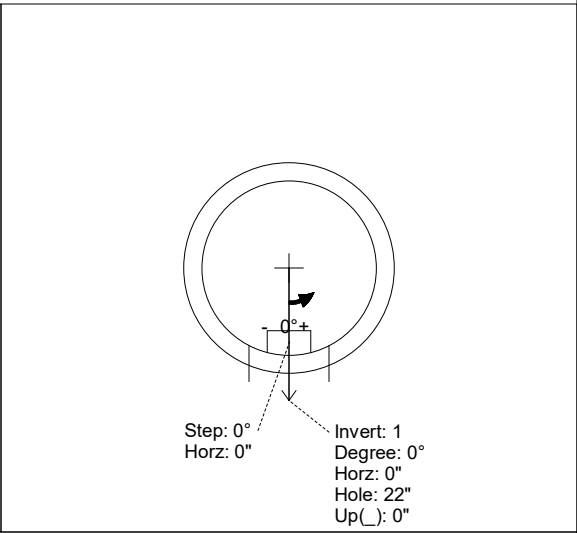
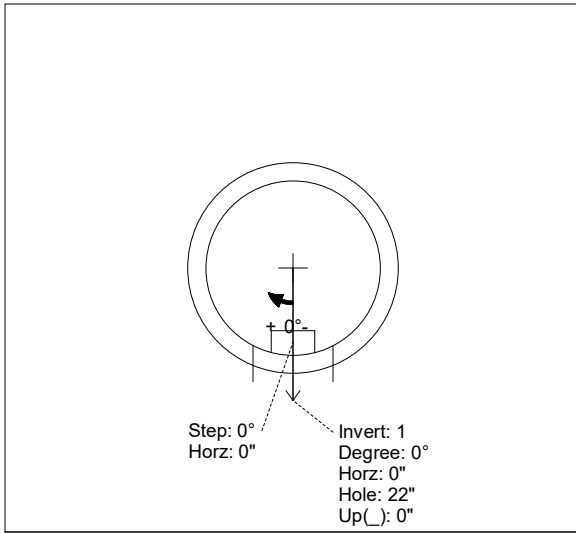
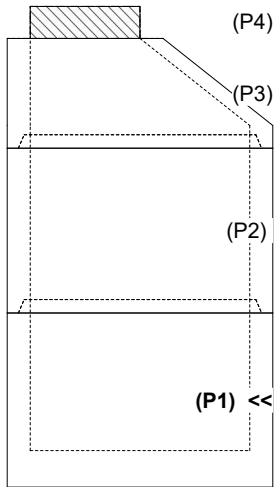
1. PER KYTC & ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. INVERT CHANNEL REQUIRED
5. STEPS AT 0 DEGREES
6. HOE MC-375 FRAME & COVER "BGMU SANITARY" SUPPLIED BY ICAST

Rim: 478.3' Rim to Invert: 7.92' Slack: 1.54" Sump: 3.5" Step Position: 0°

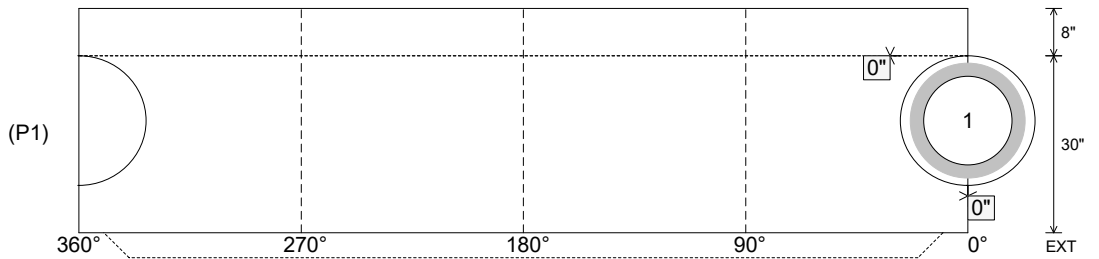
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	470.38'	0°	0"	15" RCP B WALL	19.5"	Kor-N-Seal2 S206-22L	22"	22.854"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 3705 lb Volume (Net): 0.95cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 26-1322B - KYTC Warren Co Call 104 (261503)	Plant: 100	Tech: Jared - A	
Job Location: Bowling Green, KY Contractor: Cumberland Pipeline LLC	4/21/2026 2:25:09 PM	PC: Celina Goff	

Structure ID: 223-75 SS-MH

P1 MH048BA30

MH BASE (08"F) T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE F/G - 24"	1550 lb
P2) 48" - MH RISER SPECIAL T/G - 36"	2380 lb
P1) 48" - MH BASE (08"F) T/n - 30"	3705 lb
1) 48" - MH INVERT CHANNEL - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) CASTING - HOE MC-375 F/C BGMU Sanitary	271 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) Kor-N-Seal2 - S206-22L	6 lb
1) Kor-N-Seal1 - S106-20BW	6 lb
6) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	9358 lb

Structure Notes:

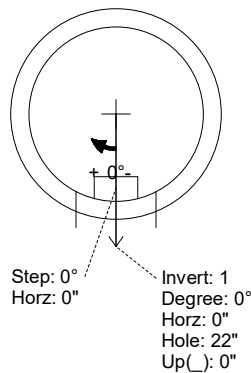
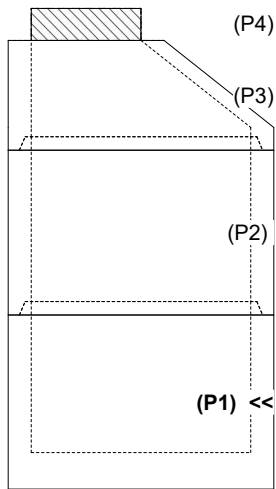
1. PER KYTC & ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. INVERT CHANNEL REQUIRED
5. STEPS AT 0 DEGREES
6. HOE MC-375 FRAME & COVER "BGMU SANITARY" SUPPLIED BY ICAST

Rim: 478.3' Rim to Invert: 7.92' Slack: 1.54" Sump: 3.5" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	470.38'	0°	0"	15" RCP B WALL	19.5"	Kor-N-Seal2 S206-22L	22"	22.854"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

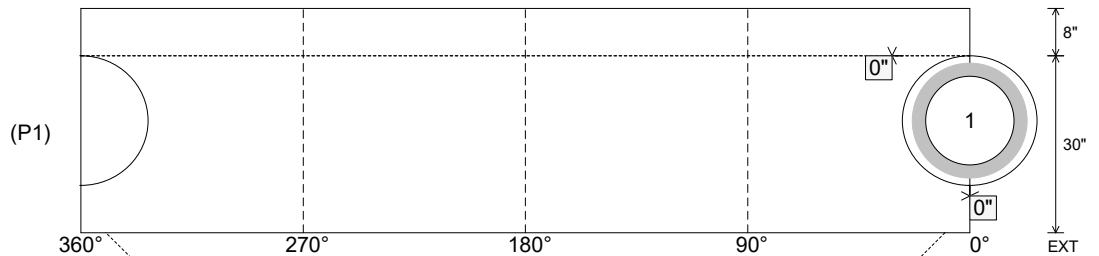
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 3705 lb Volume (Net): 0.95cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:29 AM

Tech: S. Felletter
 PC:



Structure ID: MH 6 (0+31)

P1 MH060BA36

MH BASE T/n

P5) 24" - CASTING HEIGHT - 7"	0 lb
P4) 24" - GRADE RING F/F - 6"	405 lb
P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"	2869 lb
P2) 60" - MH RISER T/G - 48"	4909 lb
P1) 60" - MH BASE T/n - 36"	6217 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) 60" - STORM INVERT CHANNEL - 1/4 HEIGHT	1700 lb
1) Chimney Seal - Trelleborg FlexRib Chimney Seal	10 lb
1) CASTING - HOE WT-420-MSD F/C Storm	340 lb
2) 60" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 16L NYLO	16 lb
3) PSX - 12-06 NYLO	24 lb
Structure Total:	16490 lb

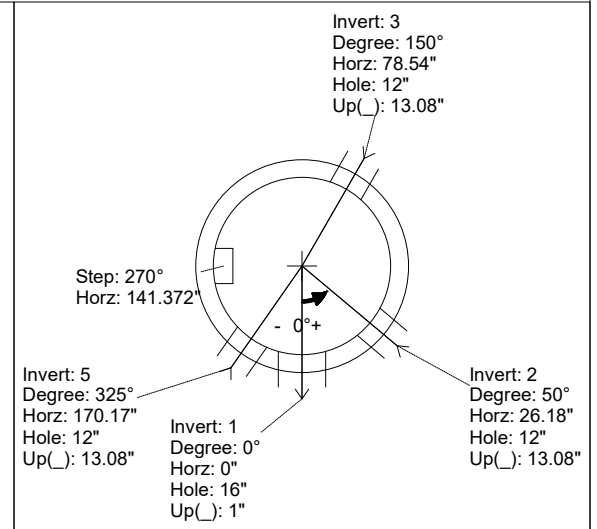
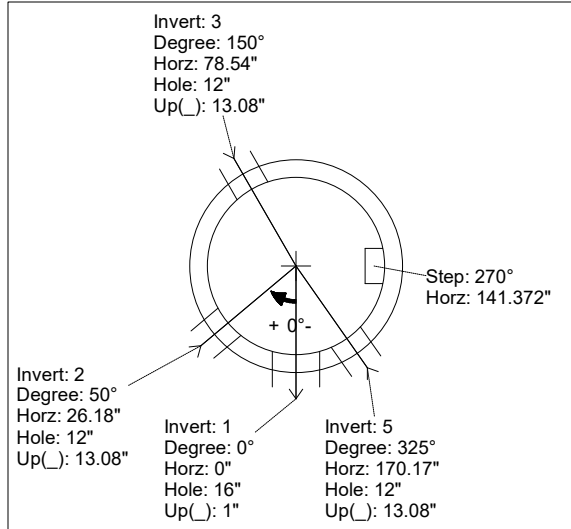
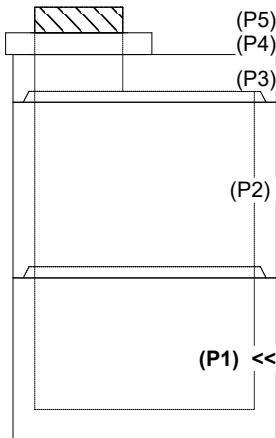
Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BAR AT 6" C.C.E.W.
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 414.13' Rim to Invert: 8.92' Slack: 0.04" Sump: 3" Step Position: 270

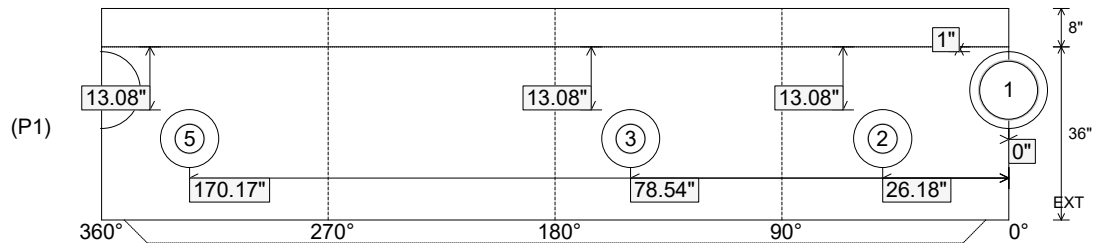
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	405.21'	0°	0"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.196"	1"	0"
Invert 2	406.3'	50°	31.416"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.081"	13.08"	0"
Invert 3	406.3'	150°	94.248"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.081"	13.08"	0"
Invert 4										
Invert 5	406.3'	325°	204.204"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.081"	13.08"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 8"

Height (Int): 36"
 Height (Ext): 44"

Weight (Net): 6217 lb
 Volume (Net): 1.59cu.yd

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:29 AM

Tech: S. Felletter
 PC:



Structure ID: MH 6 (0+31)

P1 MH060BA36

MH BASE T/n

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING F/F - 6"
- P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"
- P2) 60" - MH RISER T/G - 48"
- P1) 60" - MH BASE T/n - 36"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 60" - STORM INVERT CHANNEL - 1/4 HEIGHT
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 2) 60" - Conseal CS-102 1.00" (Double)
- 2) PSX - 16L NYLO
- 3) PSX - 12-06 NYLO

0 lb
 405 lb
 2869 lb
 4909 lb
 6217 lb
 0 lb
 0 lb
 1700 lb
 10 lb
 340 lb
 0 lb
 16 lb
 24 lb

 Structure Total: 16490 lb

Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BAR AT 6" C.C.E.W.
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

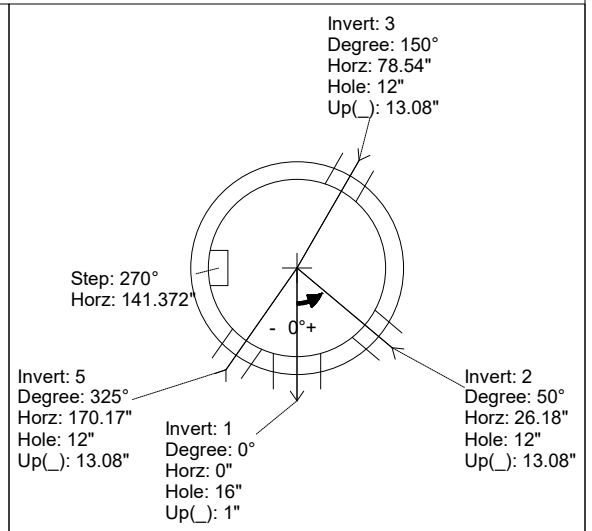
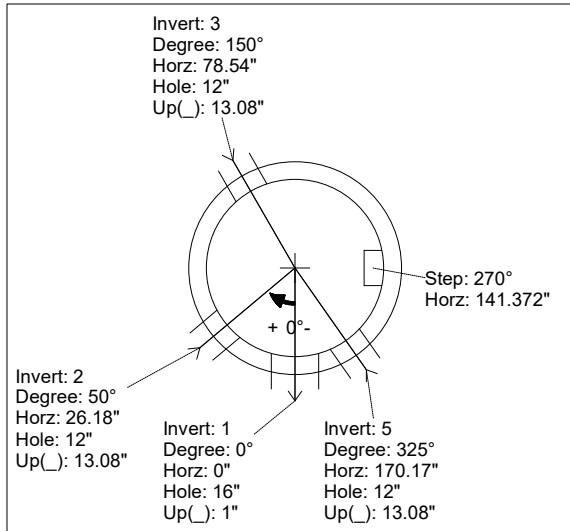
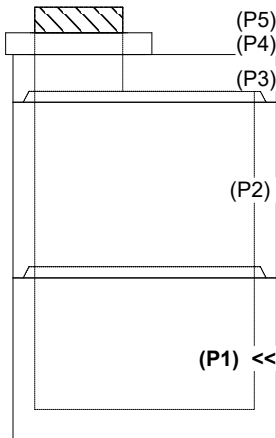
Invert channel drawing
 1/4 Height invert

Rim: 414.13' Rim to Invert: 8.92' Slack: 0.04" Sump: 3" Step Position: 270

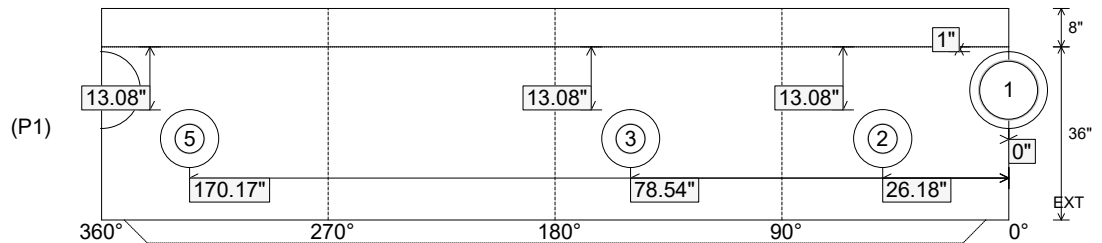
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	405.21'	0°	0"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.196"	1"	0"
Invert 2	406.3'	50°	31.416"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.081"	13.08"	0"
Invert 3	406.3'	150°	94.248"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.081"	13.08"	0"
Invert 4										
Invert 5	406.3'	325°	204.204"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.081"	13.08"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 8"

Height (Int): 36"
 Height (Ext): 44"

Weight (Net): 6217 lb
 Volume (Net): 1.59cu.yd

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements
 Job Location: Louisville, KY 40208
 Contractor: Louisville Paving and Construction

Plant: 100
 4/30/2026 1:23:05 PM

Tech: Jared - F
 PC: J. Jarvis



Structure ID: S304

P3 MH060LD13

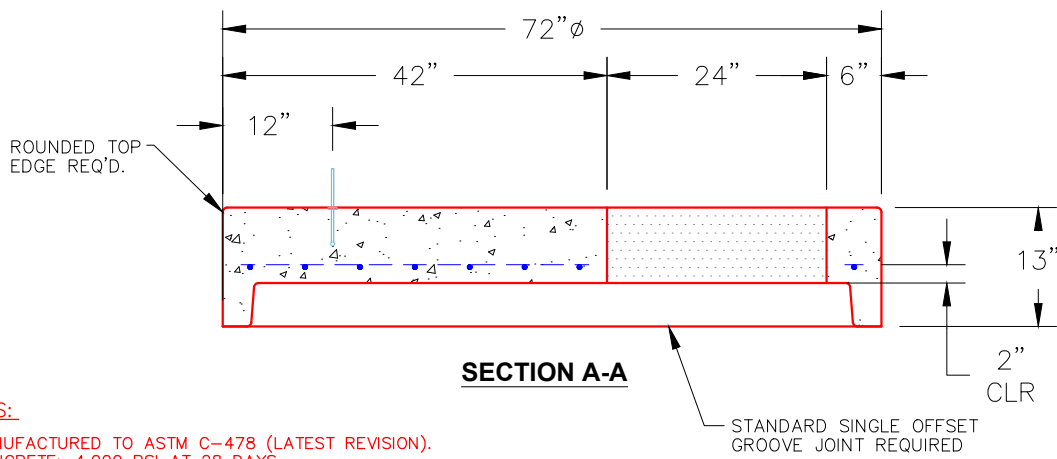
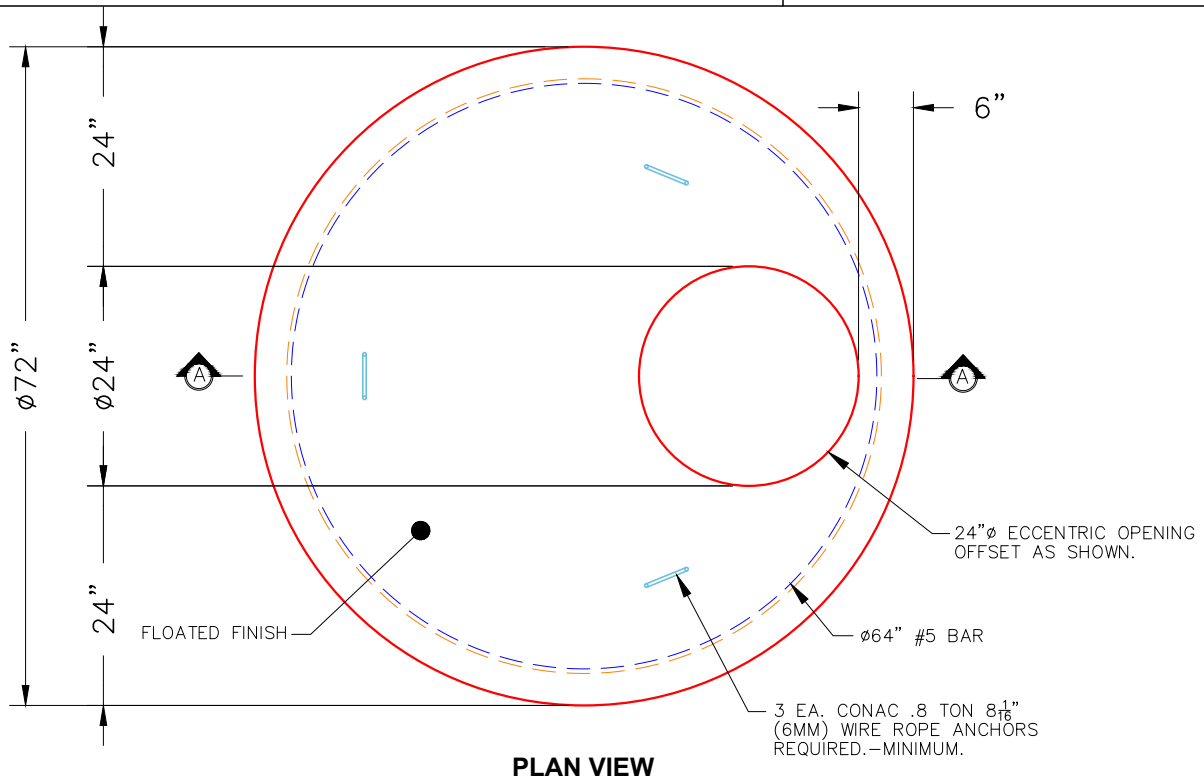
MH FLAT TOP w/ 24" ECC Hole F/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"
- P2) 60" - MH RISER T/G - 42"
- P1) 60" - MH BASE Custom Ht T/n - 70"
- 1) CASTING - HOE MC-420 F/C Storm
- 2) 60" - Conseal CS-102 1.00"
- 2) Hole - 44
- 1) Hole - 14
- 10) MH Step ML-10-TDS-NCR - 10"

0 lb
 2869 lb
 4384 lb
 8280 lb
 340 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 15873 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-420 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.



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

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 6"	Height (Ext): 13"	Weight (Net): 2869 lb Volume (Net): 0.73cu.yd
----------------------------------	----------------------------------	--------------------	-------------------	--------------------------------------------------

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements
 Job Location: Louisville, KY 40208
 Contractor: Louisville Paving and Construction

Plant: 100
 4/30/2026 1:22:32 PM

Tech: Jared - F
 PC: J. Jarvis



Structure ID: S211

P2 MH060RS18S

MH RISER T/G

- P4) 32" x 32" - CASTING HEIGHT - 3"
- P3) 60" - MH FLAT TOP w/32"x32" Hole F/G - 13"
- P2) 60" - MH RISER T/G - 18"
- P1) 60" - MH BASE Custom Ht T/n - 64"
- 1) CASTING - HOE 595 F/G
- 2) 60" - Conseal CS-102 1.00"
- 1) 32" x 32" - Conseal CS-102 1.00"
- 2) Hole - 30
- 1) Hole - 20
- 1) Hole - 8

0 lb
 2369 lb
 1854 lb
 8514 lb
 376 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 13112 lb

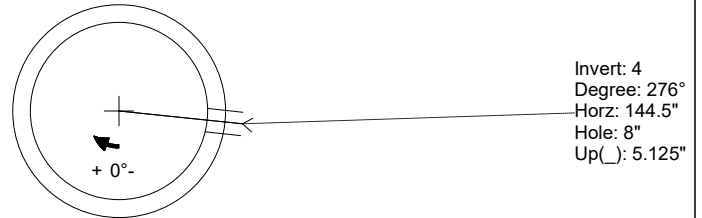
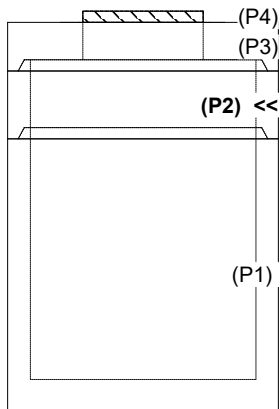
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE 595 F/G)

REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18)
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

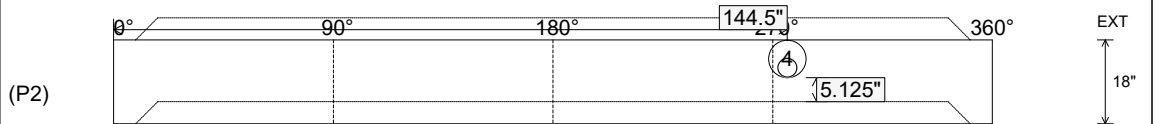
Rim: 454.52' Rim to Invert: 8.48' Slack: 3.76" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4	452.21'	276°	173.375"	4" PVC SDR26	4.25"	Hole 8	8"	8.024"	5.125"	0"
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: 6" Floor Height: 0"	Height (Int): 18" Height (Ext): 18"	Weight (Net): 1854 lb Volume (Net): 0.47cu.yd
----------------------------------	------------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
 Job Location: Fort Mitchell, KY 41017
 Contractor: Lykins Contracting

Plant: 100

3/27/2026 11:39:55 AM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301543

P2 MH060TS15-48ECC

MH Transition Slab 48" Hole T/G

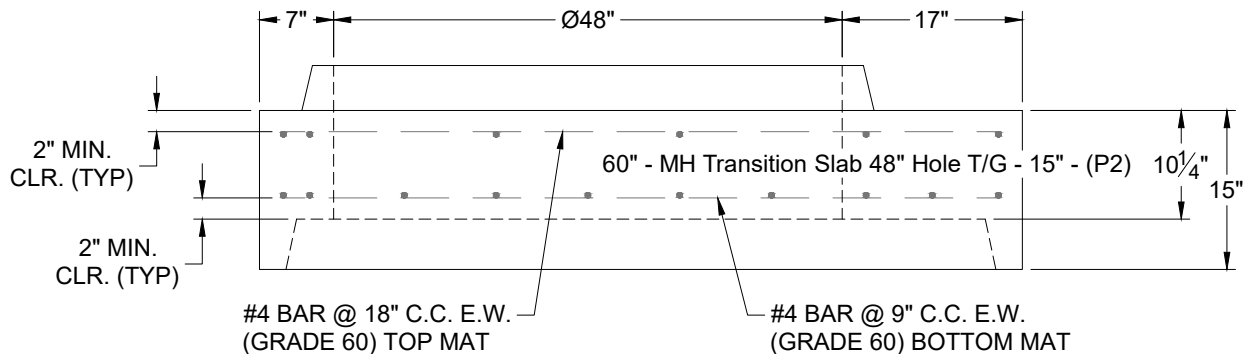
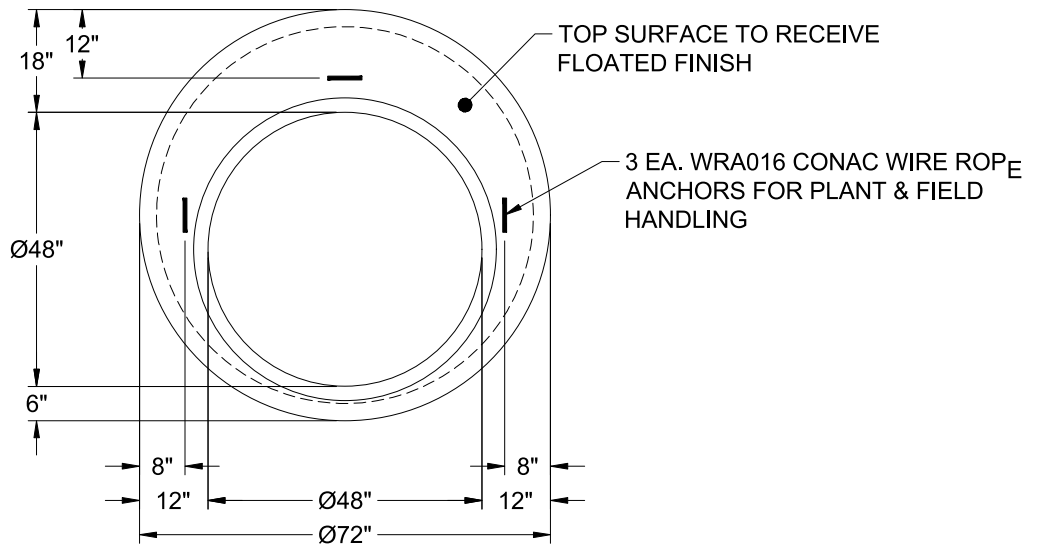
- P6) 24" - CASTING HEIGHT - 7"
- P5) 48" - CON CONE w/24" HOLE F/G - 36"
- P4) 48" - MH RISER T/G - 60"
- P3) 48" - MH RISER T/G - 72"
- P2) 60" - MH Transition Slab 48" Hole T/G - 15"
- P1) 60" - MH BASE (12"F) Custom Ht T/n - 58"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 60" - Conseal CS-102 1.00" (Double)
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 19) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 2252 lb
- 4192 lb
- 5030 lb
- 2204 lb
- 8800 lb
- 2692 lb
- 0 lb
- 0 lb
- 2 lb
- 0 lb

Structure Total: 25172 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

Structure ID: 2301541

P1 MH060BAVF

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

P6) 24" - CASTING HEIGHT - 7" P5) 48" - CON CONE w/24" HOLE F/G - 24" P4) 48" - MH RISER T/G - 60" P3) 48" - MH RISER T/G - 60" P2) 60" - MH Transition Slab 48" Hole T/G - 15" P1) 60" - MH BASE (10"F) Custom Ht T/n - 62" 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 17) MH Step ML-10-TDS-NCR - 10"	0 lb 2252 lb 4192 lb 4192 lb 2204 lb 8534 lb 2692 lb 0 lb 0 lb 2 lb 0 lb _____ Structure Total: 24068 lb
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Structure Notes:

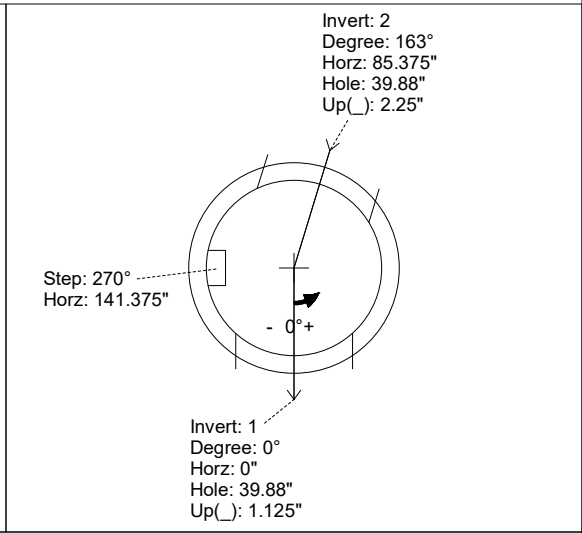
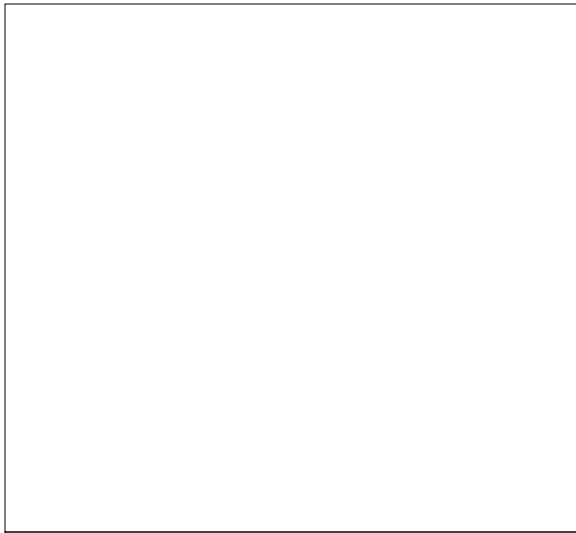
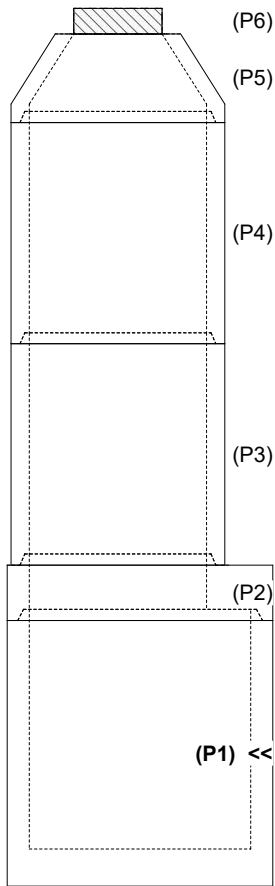
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
 - WALLS: PER ASTM A615 - DOUBLE MAT
 - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 752.73' Rim to Invert: 19.01' Slack: 3.12" Sump: 3" Step Position: 270°

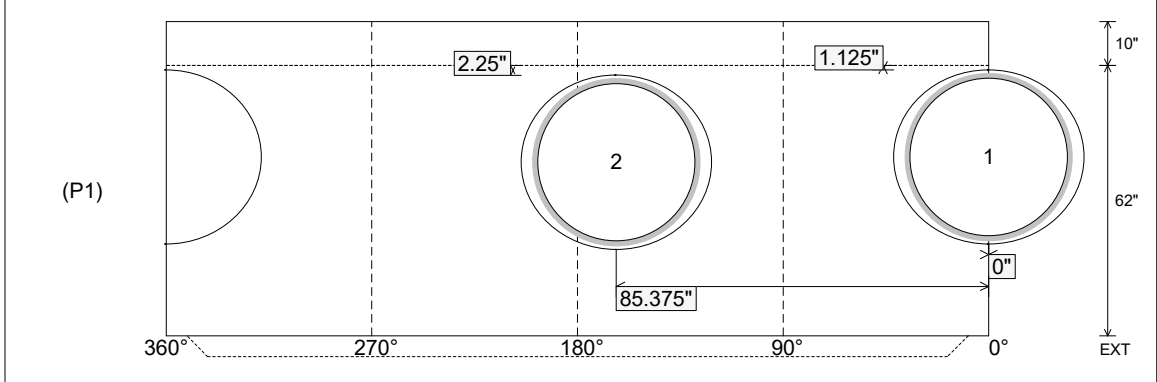
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.72'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.82'	163°	102.375"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 10"	Height (Int): 62" Height (Ext): 72"	Weight (Net): 8534 lb Volume (Net): 2.18cu.yd
----------------------------------	---------------------------------	-----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
 Job Location: Fort Mitchell, KY 41017
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:22 PM

PC: Celina Goff



Structure ID: 2301541

P1 MH060BAVF

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

- P6) 24" - CASTING HEIGHT - 7"
- P5) 48" - CON CONE w/24" HOLE F/G - 24"
- P4) 48" - MH RISER T/G - 60"
- P3) 48" - MH RISER T/G - 60"
- P2) 60" - MH Transition Slab 48" Hole T/G - 15"
- P1) 60" - MH BASE (10"F) Custom Ht T/n - 62"
- 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
- 17) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 4192 lb
 4192 lb
 2204 lb
 8534 lb
 2692 lb
 0 lb
 0 lb
 2 lb
 0 lb

 Structure Total: 24068 lb

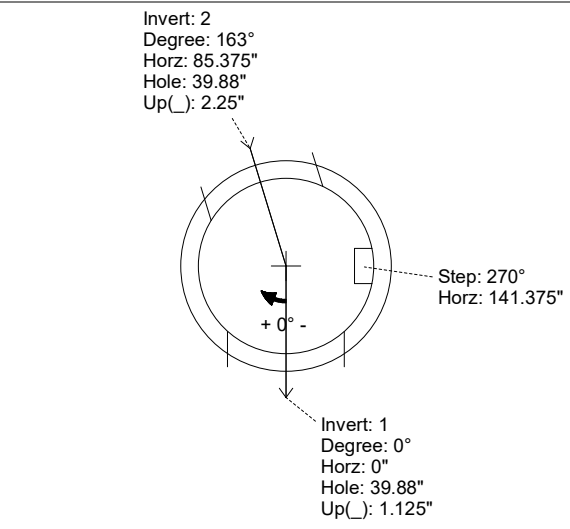
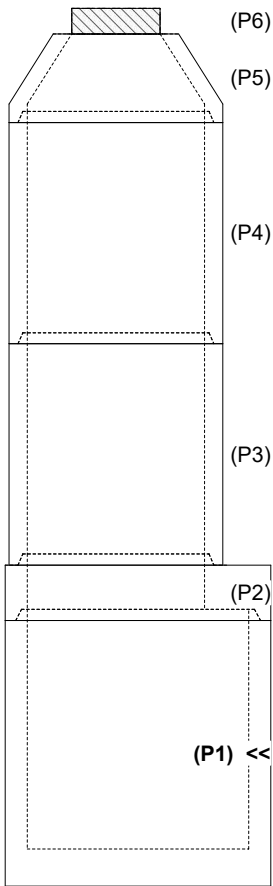
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT:
 - WALLS: PER ASTM A615 - DOUBLE MAT
 - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. INVERT CHANNEL REQUIRED
 5. STEPS AT 270 DEGREES
 6. 7" CASTING SUPPLIED BY OTHERS

Rim: 752.73' Rim to Invert: 19.01' Slack: 3.12" Sump: 3" Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.72'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.82'	163°	102.375"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

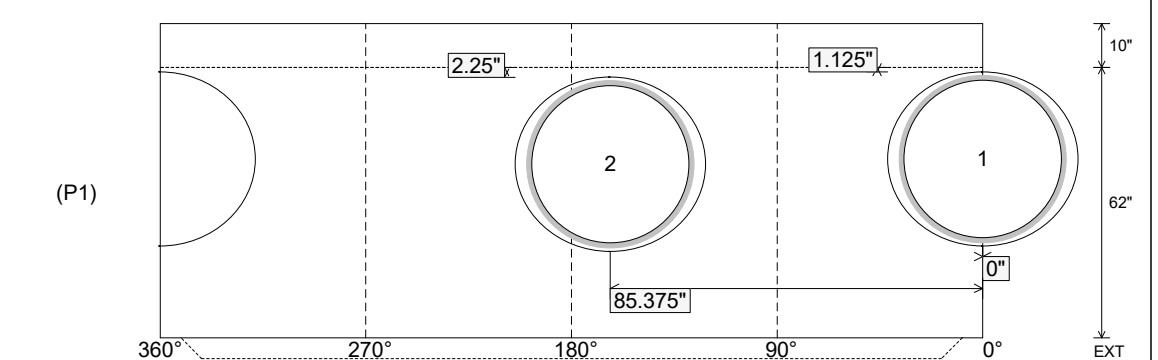
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

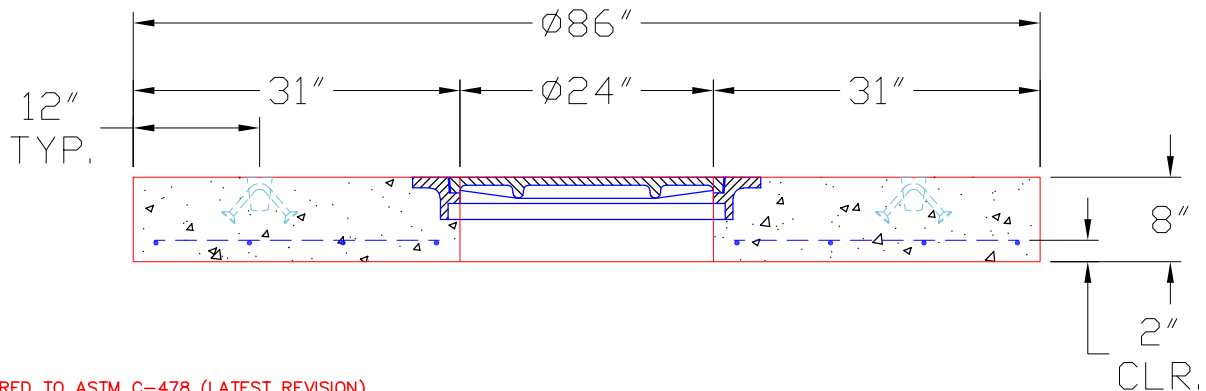
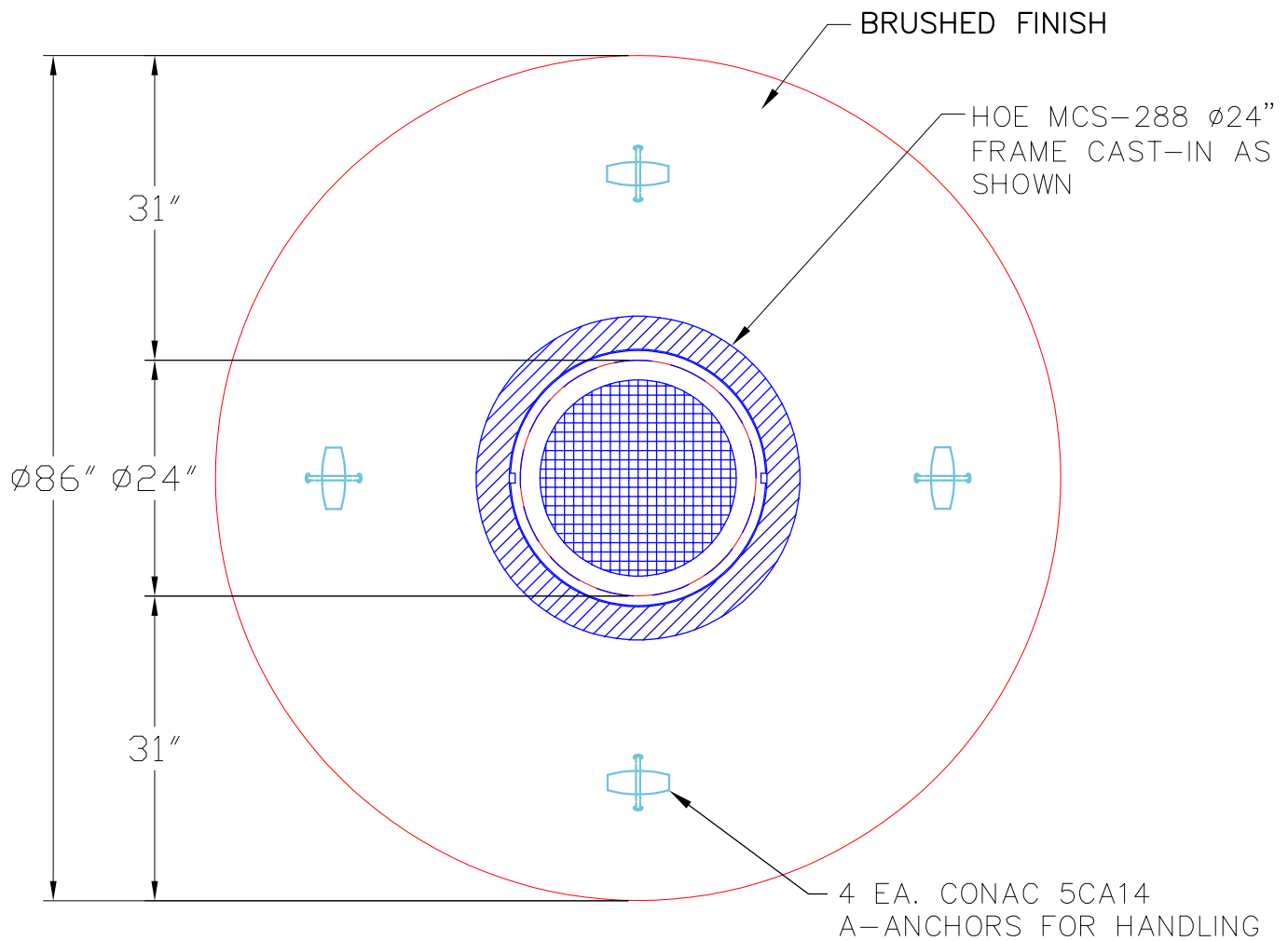
Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 10"

Height (Int): 62"
 Height (Ext): 72"

Weight (Net): 8534 lb
 Volume (Net): 2.18cu.yd

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR.



NOTES:

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

<p>PRODUCTION WORK ORDER</p>		<p>PRODUCT I.D.: MH072LD08S</p>	<p>DESCRIPTION: 86"Ø X 8" MH TOP SLAB W/ Ø24" CAST-IN CENTERED</p>	
	<p>QUALITY CONTROL CHECKLIST</p>	<p>PRODUCT VIEW: RIGHT SIDE UP</p>	<p>CUSTOMER: ADS ADVANCED DRAINAGE SYSTEMS, INC.</p>	
	<p><input type="checkbox"/> ALL DIMENSIONS CORRECT.</p>	<p>PLANT: BEAVER DAM, KY.</p>	<p>PROJECT: ADS SELCAT TRAINING</p>	
	<p><input type="checkbox"/> LIFTERS INSTALLED.</p>	<p>WEIGHT: 3,844 LBS.</p>	<p>STRUCTURE: QL1 TOP SLAB</p>	
	<p><input type="checkbox"/> HOLE LOCATION CORRECT.</p>	<p>TOP SECTION JOINT: N/A</p>	<p>QUOTE/SALES ORDER NO: 26-2132</p>	
	<p><input type="checkbox"/> REINFORCING CORRECT.</p>	<p>BASE SECTION JOINT: N/A</p>	<p>PC: T. RYAN</p>	<p>DRAWING: S. FELLETTA</p>
<p><input type="checkbox"/> FINISH ON SLAB SURFACE UNIFORM.</p>	<p>QC CHECK INITIALS:</p>	<p>DATE: 05/13/26</p>	<p>SCALE: NTS</p>	<p>PG. 1 of 1</p>
<p><input type="checkbox"/> OUTSIDE TOP EDGE TROWELLED.</p>				
<p><input type="checkbox"/> FLAT BOTTOM.</p>				

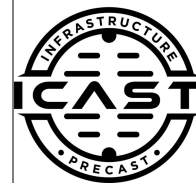
Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
 Job Location: Fort Mitchell, KY 41017
 Contractor: Lykins Contracting

Plant: 100

3/20/2026 1:21:49 PM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301562

P1 MH072BAVF

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

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 60"
- P2) 72" - MH Transition Slab 48" Hole T/G - 15"
- P1) 72" - MH BASE (10" F) Custom Ht T/n - 67"
- 1) 72" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 72" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 14) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 4192 lb
 3864 lb
 13101 lb
 5422 lb
 0 lb
 0 lb
 2 lb
 0 lb

 Structure Total: 28833 lb

Structure Notes:

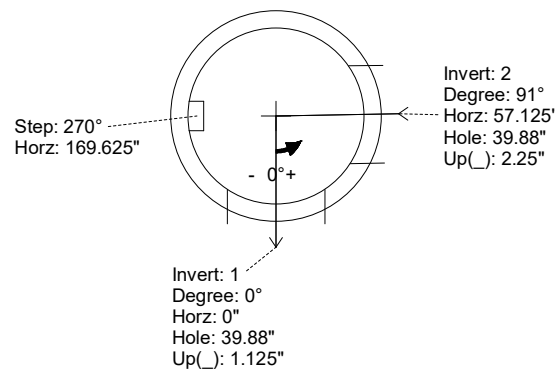
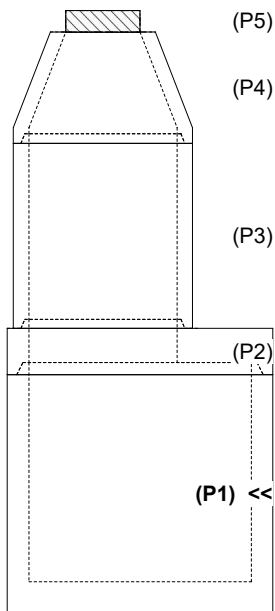
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
 - WALLS: PER ASTM A615 - DOUBLE MAT
 - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 758.2' Rim to Invert: 15.42' Slack: 3.04" Sump: 3" Step Position: 270°

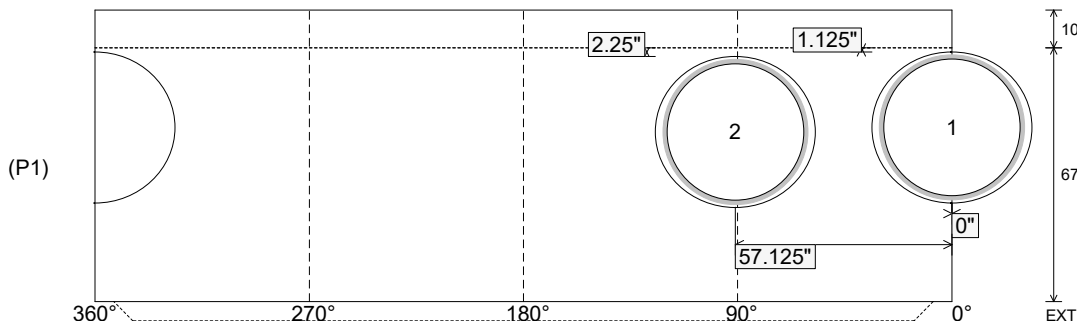
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	742.78'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"
Invert 2	742.88'	91°	68.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 7"
 Floor Height: 10"

Height (Int): 67"
 Height (Ext): 77"

Weight (Net): 13101 lb
 Volume (Net): 3.35cu.yd

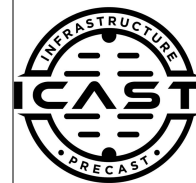
Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
 Job Location: Fort Mitchell, KY 41017
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:49 PM

PC: Celina Goff



Structure ID: 2301562

P1 MH072BAVF

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

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 60"
- P2) 72" - MH Transition Slab 48" Hole T/G - 15"
- P1) 72" - MH BASE (10" F) Custom Ht T/n - 67"
- 1) 72" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 72" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 14) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 4192 lb
 3864 lb
 13101 lb
 5422 lb
 0 lb
 0 lb
 2 lb
 0 lb

 Structure Total: 28833 lb

Structure Notes:

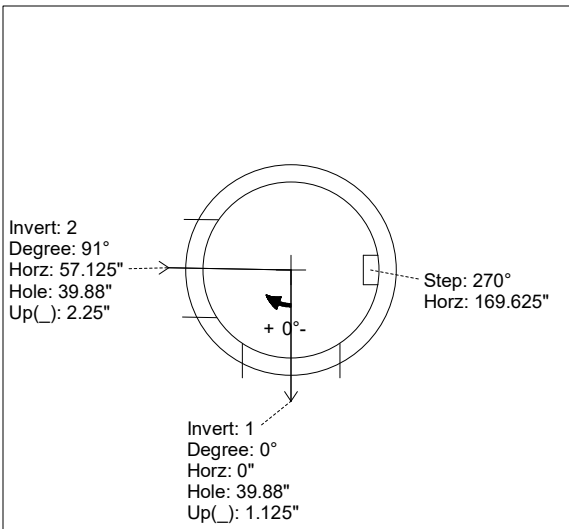
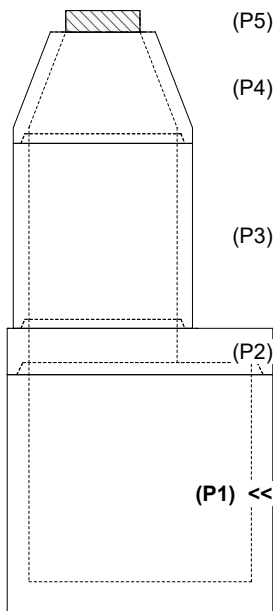
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
 - WALLS: PER ASTM A615 - DOUBLE MAT
 - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 758.2' Rim to Invert: 15.42' Slack: 3.04" Sump: 3" Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	742.78'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"
Invert 2	742.88'	91°	68.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

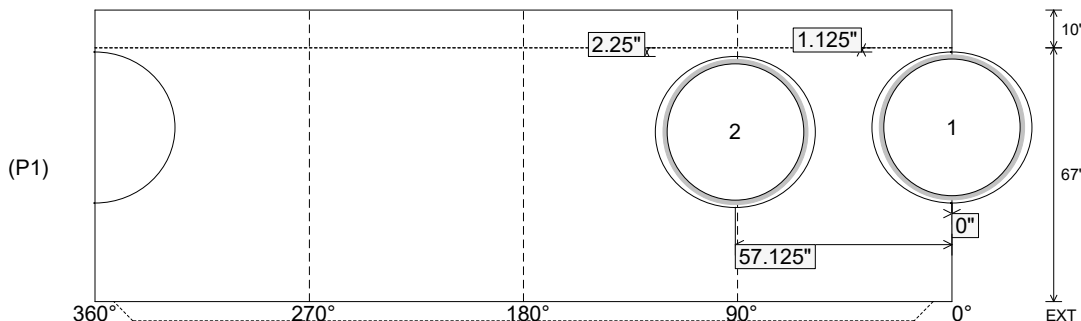
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 7"
 Floor Height: 10"

Height (Int): 67"
 Height (Ext): 77"

Weight (Net): 13101 lb
 Volume (Net): 3.35cu.yd



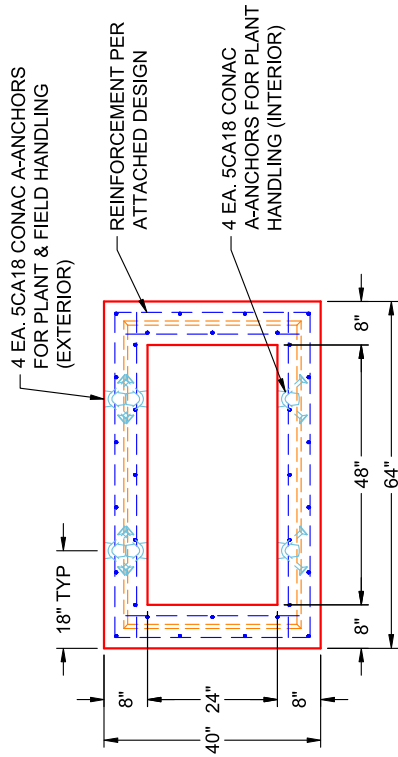
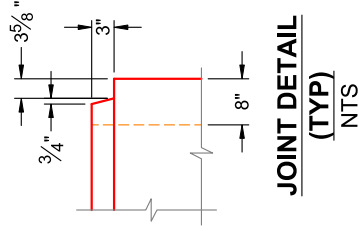
Structure ID: BC 4 x 2 (PC 10)

P1 BC048024-08WLF

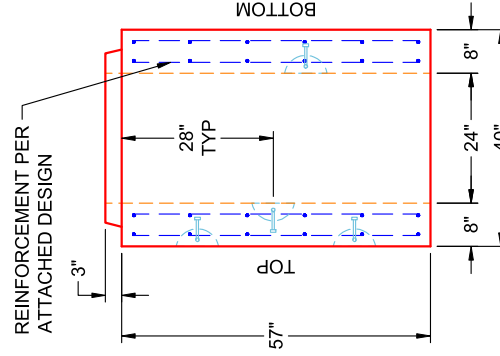
BOX CULVERT (08W/08F/08T) No Haunch & Groove



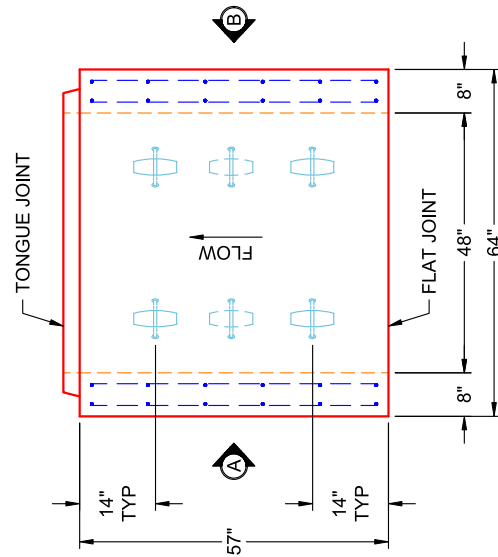
COMPONENT ISOMETRIC VIEW



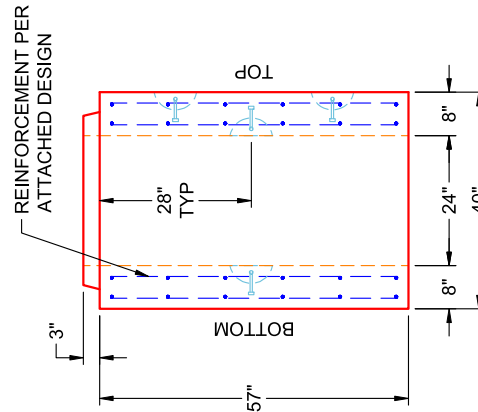
END VIEW TYPICAL



VIEW B
PC 10
(UPRIGHT IN MOLD)



PLAN VIEW
PC 10
(UPRIGHT IN MOLD)



VIEW A
PC 10
(UPRIGHT IN MOLD)

- GENERAL NOTES:**
- MANUFACTURED TO ASTM C-1577 & SECTION 714 OF INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES
 - LOAD REQUIREMENTS: HL93
 - REINFORCEMENT PER ATTACHED DESIGN
 - COVER DEPTH: 4'-8"
 - CONCRETE: 5,000 PSI AT 28 DAYS
 - JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
 - WEIGHT: 4' X 2' (48" X 24") RCBC = 1,418 LBS / LF (57" LONG SECTION = 6,734 LBS)

INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____
 By: J. Horsley
 Ck: _____
 5/11/2026 4:10:17 PM
 p. 1 of 3

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

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

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

Physical Dimensions

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

Material Properties

Concrete
 Strength, f_c: 5.000 ksi
 Density: 0.150 kcf
 Elasticity, E_c: 3834 ksi
 Type: Normal wt
 Steel
 Yield, f_y: 60 ksi
 Allow Stress: 36 ksi
 Elasticity, E_s: 29000 ksi
 Soil
 Density: 0.120 kcf
 Exposure Factor
 Class 2 Exposure
 Reinforcement Covers
 Ext. Cover Top Slab: 2"
 Ext. Cover Bottom Slab: 1"
 Ext. Cover Walls: 1"
 Int. Cover Walls: 1"
 Int. Cover Top Slab: 1"
 Int. Cover Bottom Slab: 1"

Controlling Ratings

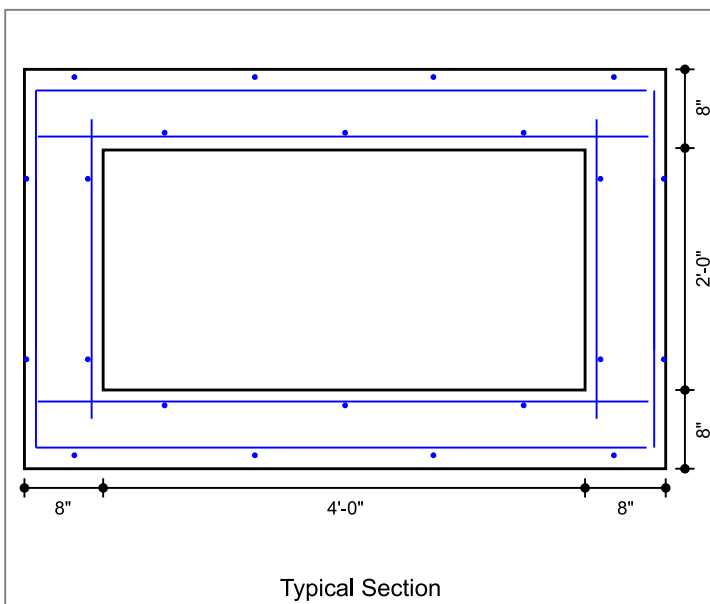
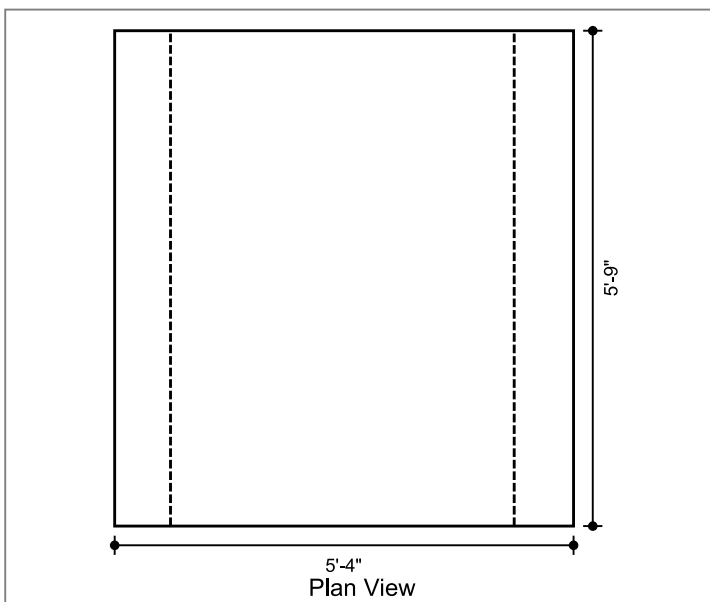
Inventory Rating: NaN
 Operating Rating: NaN

Loads

Live Load
 Vehicle Names: HL-93
 Traffic Direction: Parallel
 Eq. Height of Soil: Calculated
 Dead Load
 Future Wearing Surface: 0.000 klf
 Additional Dead Load: 0.000 klf
 Concentrated Loads: none

Lateral Soil Loads
 Eq. Fluid Press. Max: 60.00 pcf
 Eq. Fluid Press. Min: 30.00 pcf

Interior Water Pressure: yes, head pressure = 0 ft
 Exterior Water Pressure: no



INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

etc of 3

Project : Alcoa Outfall

Task :

Client: Bowen Engineering Co

Job No. : 25-2073

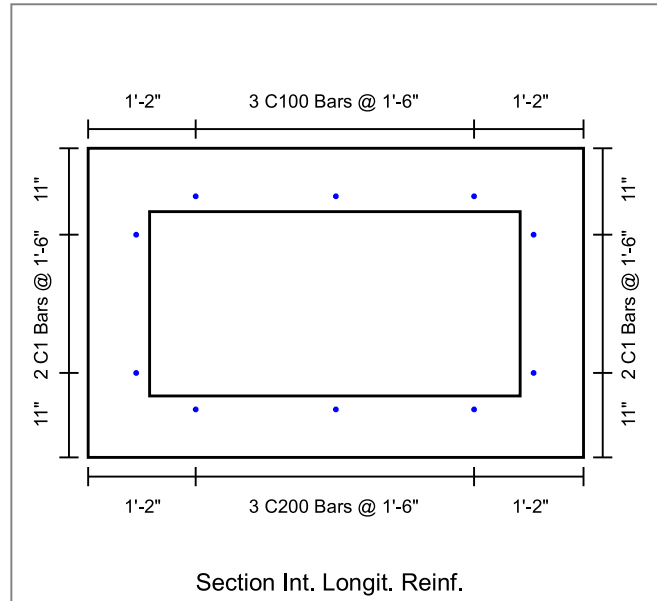
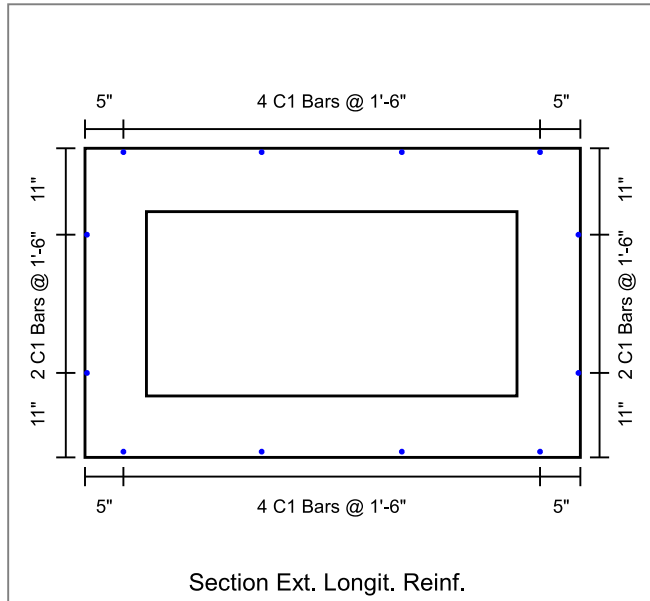
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Concrete Summary

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

Reinforcing Steel Bar Schedule (lb)

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



INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

Project : Alcoa Outfall

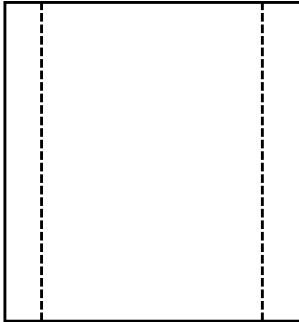
Client: Bowen Engineering Co

Task :

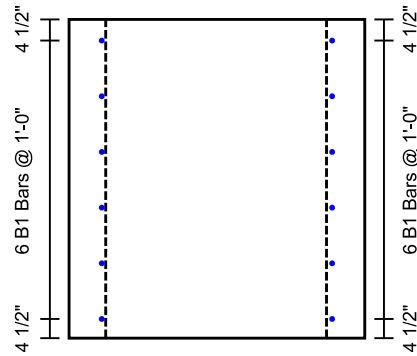
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Job No. : 25-2073

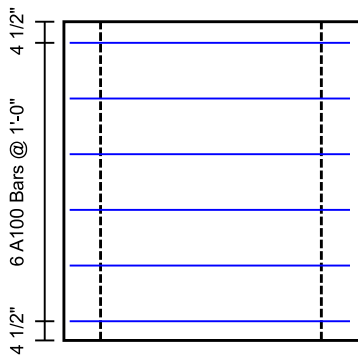
Sheet 3 of 3



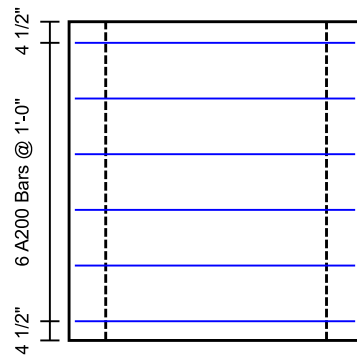
Ext. Wall Reinf.



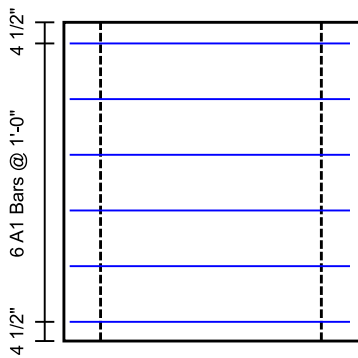
Int. Wall Reinf.



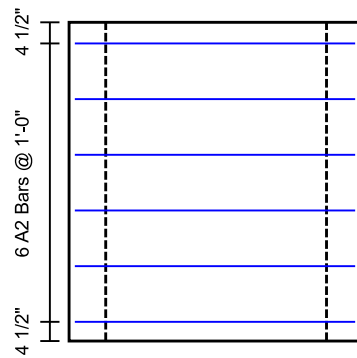
Top Slab Int. Reinf.



Bottom Slab Int. Reinf.



Top Slab Corner Reinf.



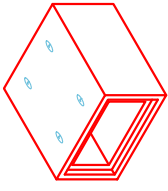
Bottom Slab Corner Reinf.



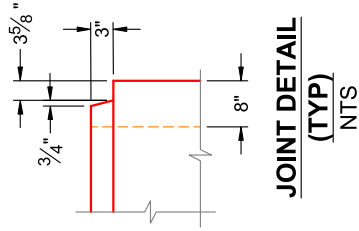
Structure ID: BC 4 x 2 (PC 7)

P1 BC048024-08WLF

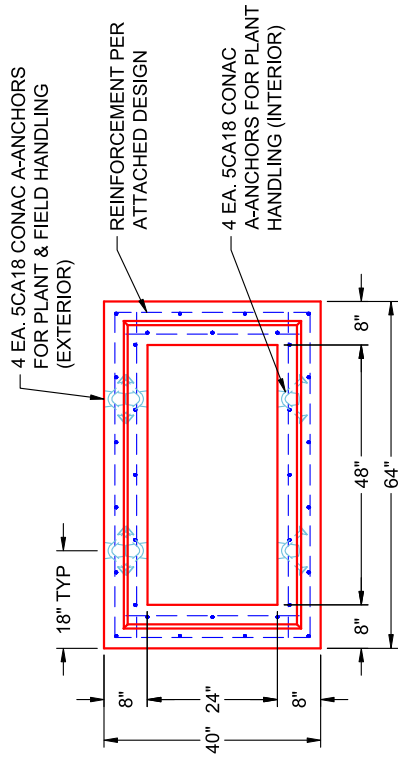
BOX CULVERT (08W/08F/08T) No Haunch G/T



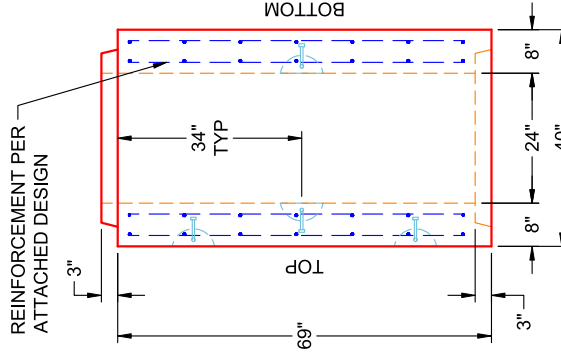
COMPONENT ISOMETRIC VIEW



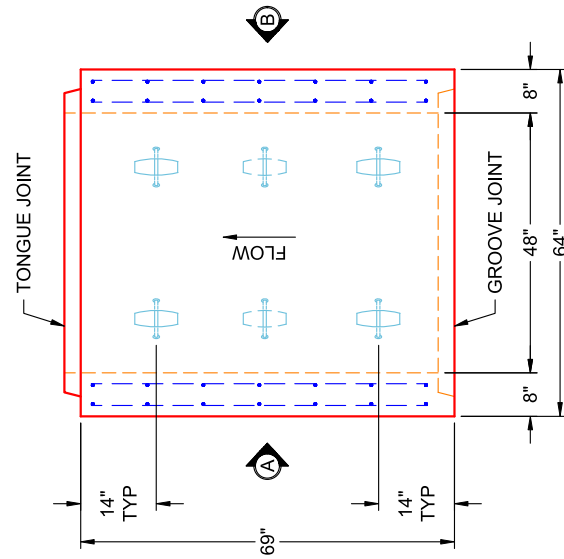
JOINT DETAIL (TYP) NTS



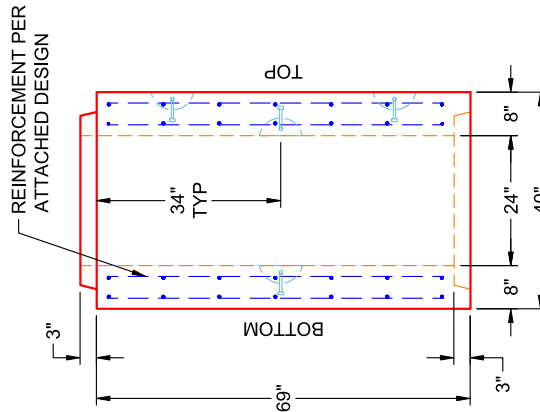
END VIEW TYPICAL



VIEW B PC 7 (UPRIGHT IN MOLD)



PLAN VIEW PC 7 (UPRIGHT IN MOLD)



VIEW A PC 7 (UPRIGHT IN MOLD)

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-1577 & SECTION 714 OF INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES
2. LOAD REQUIREMENTS: HL93
3. REINFORCEMENT PER ATTACHED DESIGN
4. COVER DEPTH: 4'-8"
5. CONCRETE: 5,000 PSI AT 28 DAYS
6. JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
7. WEIGHT: 4' X 2' (48" X 24") RCBC = 1,418 LBS / LF (69" LONG SECTION = 8,152 LBS)

INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____
 By: J. Horsley
 Ck: _____
 5/11/2026 4:10:17 PM
 p. 1 of 3

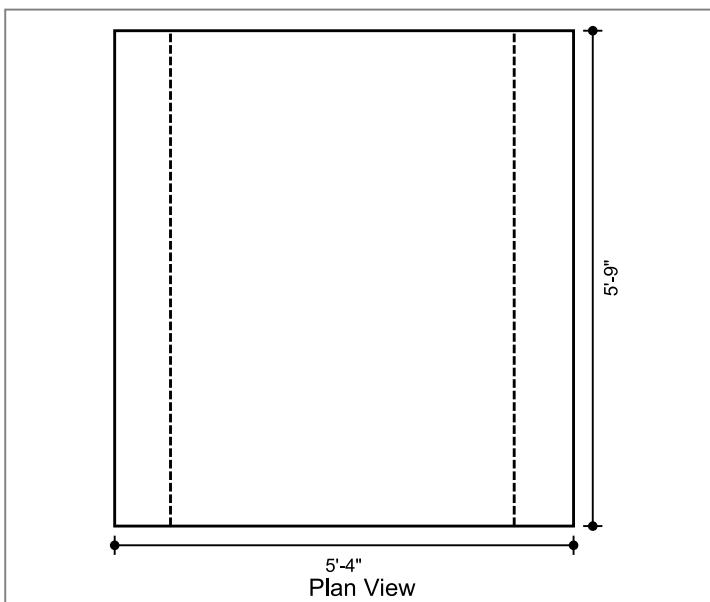
Project : Alcoa Outfall
 Task :
 Job No. : 25-2073

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

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

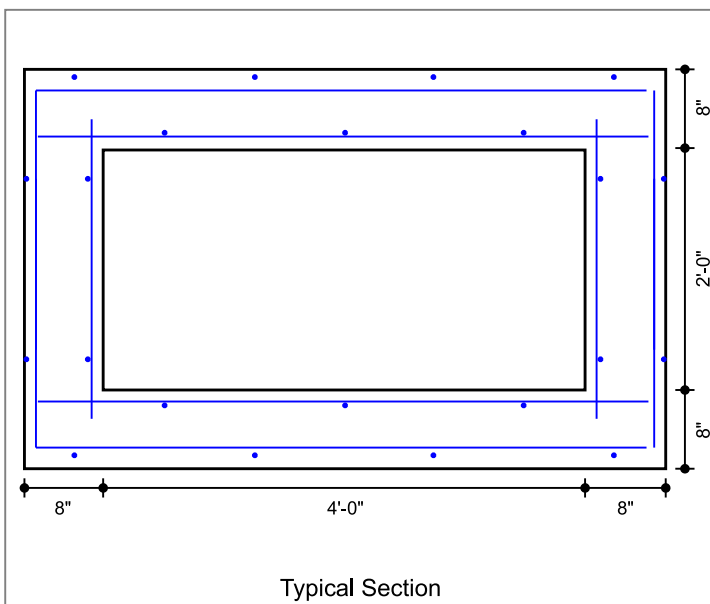
Physical Dimensions

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



Material Properties

Concrete
 Strength, f_c: 5.000 ksi
 Density: 0.150 kcf
 Elasticity, E_c: 3834 ksi
 Type: Normal wt
 Steel
 Yield, f_y: 60 ksi
 Allow Stress: 36 ksi
 Elasticity, E_s: 29000 ksi
 Soil
 Density: 0.120 kcf
 Exposure Factor
 Class 2 Exposure
 Reinforcement Covers
 Ext. Cover Top Slab: 2"
 Ext. Cover Bottom Slab: 1"
 Ext. Cover Walls: 1"
 Int. Cover Walls: 1"
 Int. Cover Top Slab: 1"
 Int. Cover Bottom Slab: 1"



Controlling Ratings

Inventory Rating: NaN
 Operating Rating: NaN

Loads

Live Load
 Vehicle Names: HL-93
 Traffic Direction: Parallel
 Eq. Height of Soil: Calculated
 Dead Load
 Future Wearing Surface: 0.000 klf
 Additional Dead Load: 0.000 klf
 Concentrated Loads: none

Lateral Soil Loads
 Eq. Fluid Press. Max: 60.00 pcf
 Eq. Fluid Press. Min: 30.00 pcf

Interior Water Pressure: yes, head pressure = 0 ft
 Exterior Water Pressure: no

INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

etc of 3

Project : Alcoa Outfall

Task :

Client: Bowen Engineering Co

Job No. : 25-2073

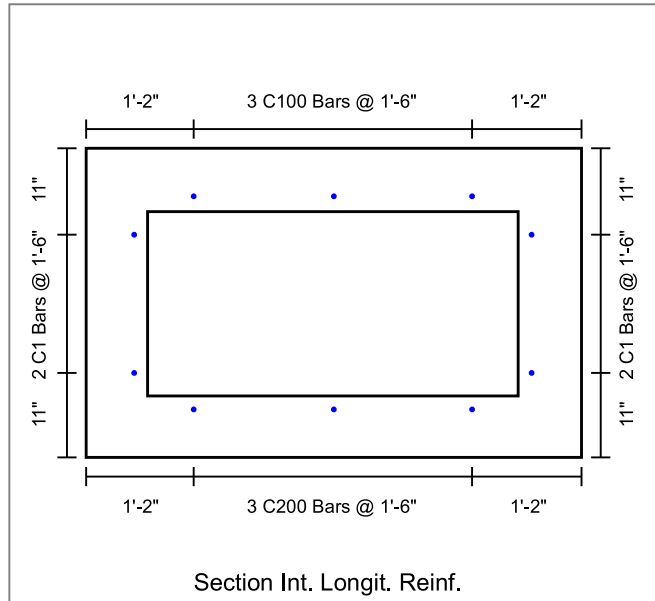
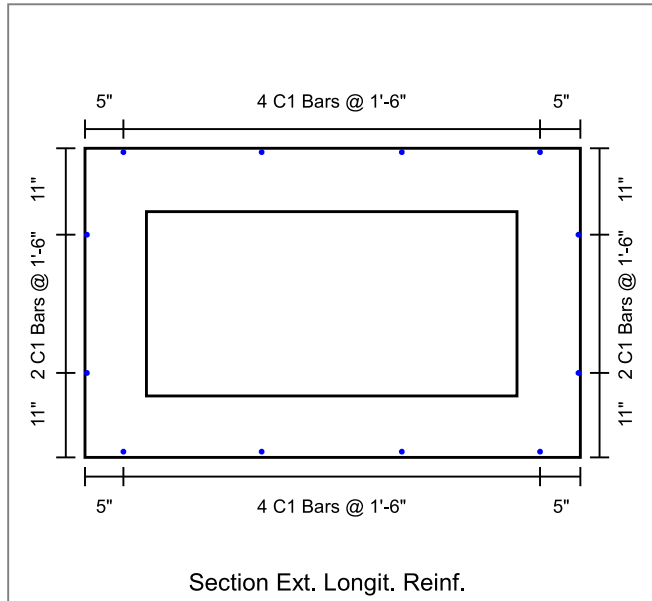
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Concrete Summary

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

Reinforcing Steel Bar Schedule (lb)

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



INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

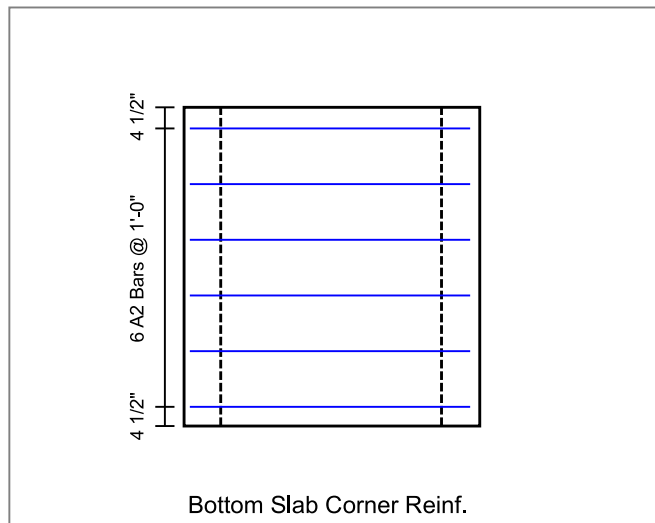
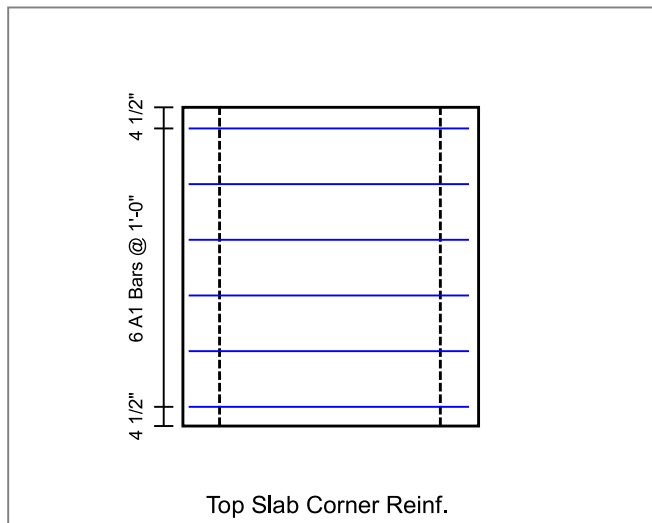
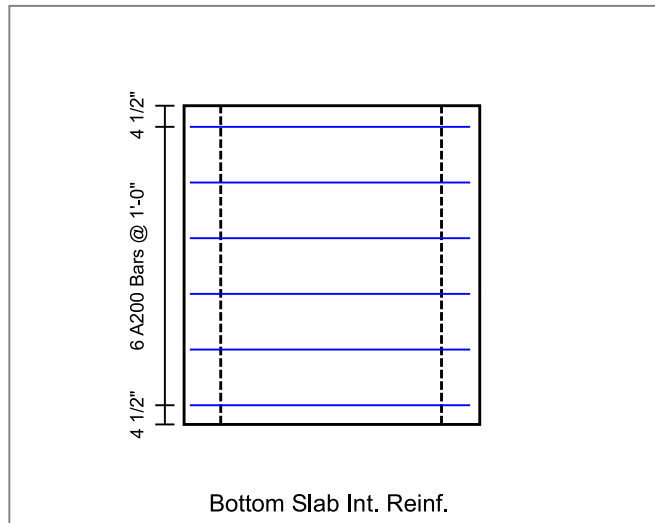
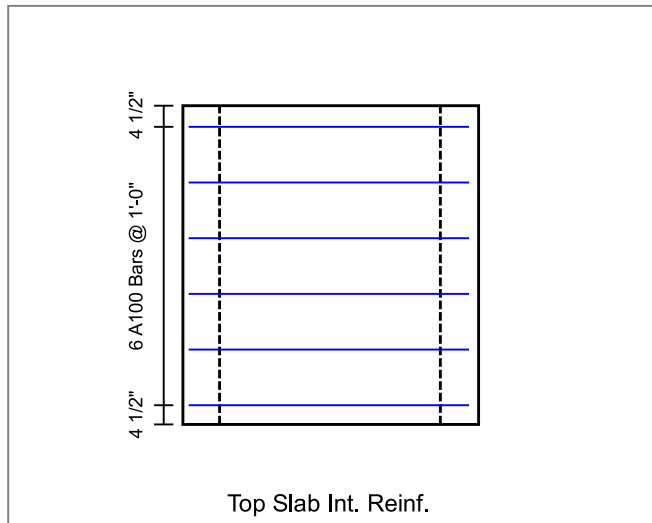
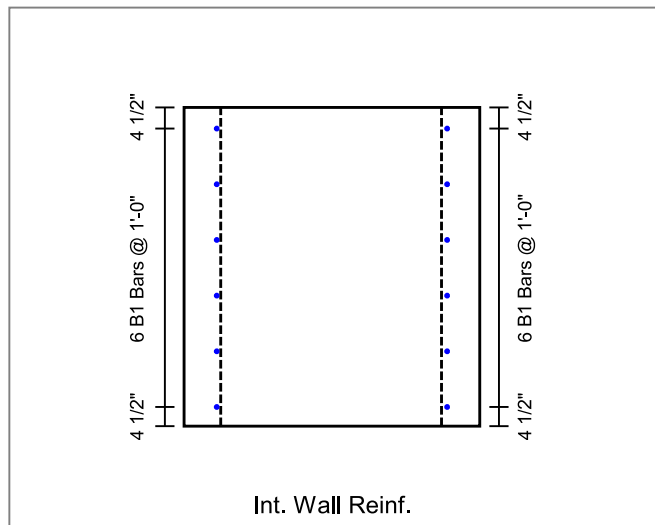
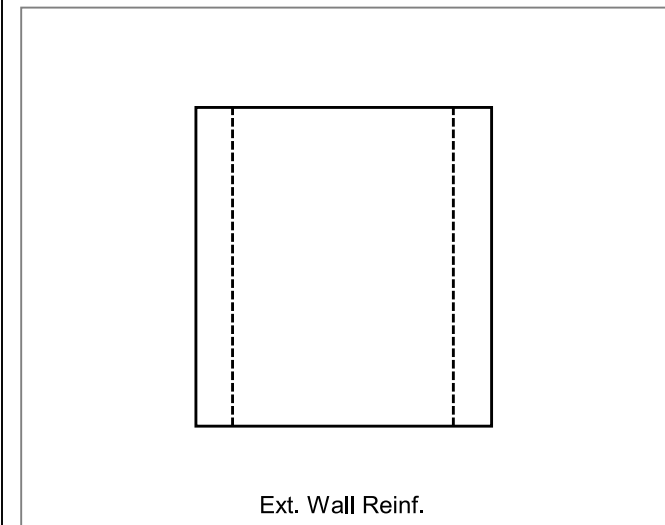
Project : Alcoa Outfall

Client: Bowen Engineering Co

Task :

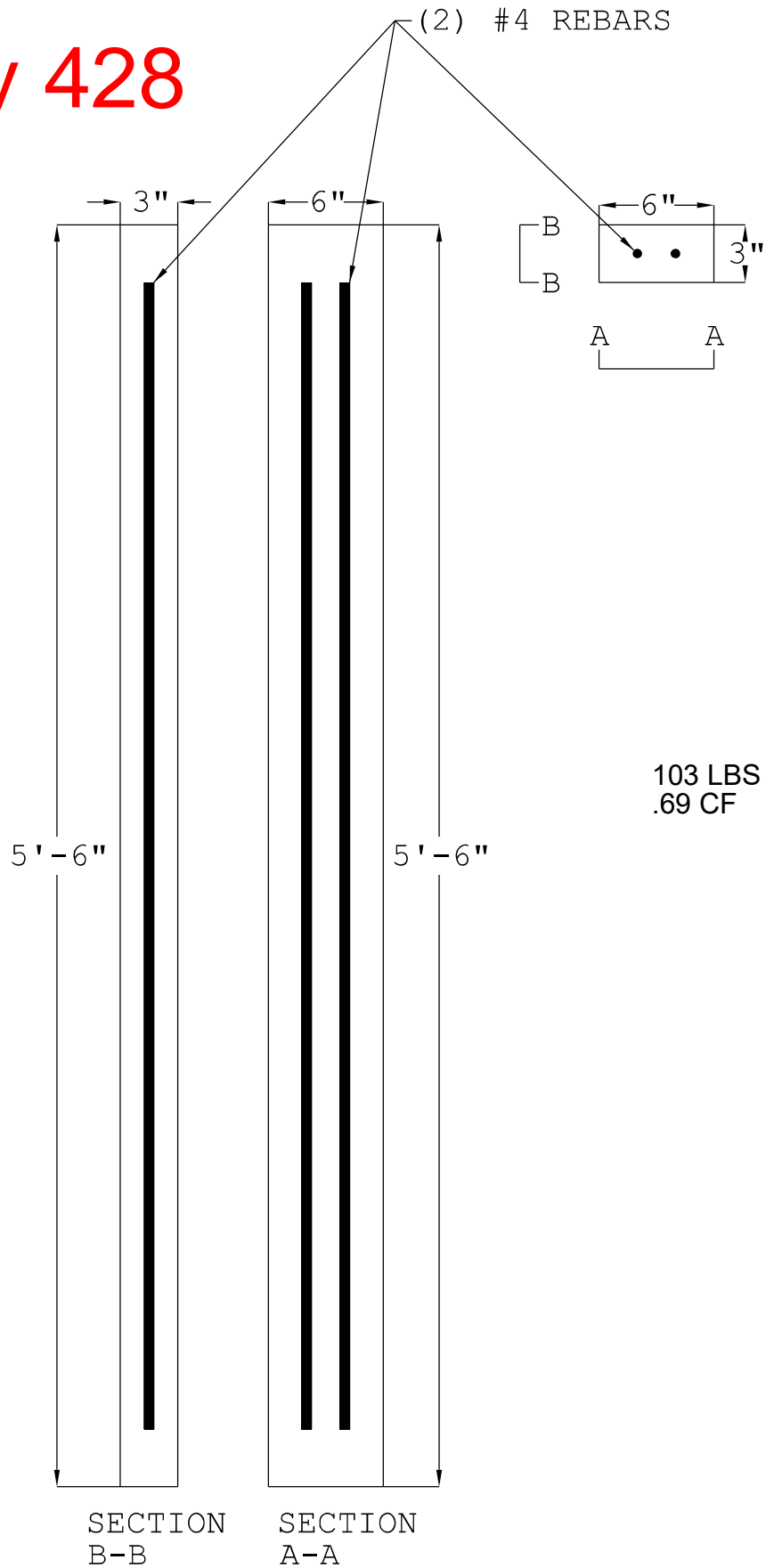
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Page 3 of 3



ALCOA CONCRETE LOGS

Quantity 428



Job Name: 25-4733 - The Paddock
 Job Location: Springfield, KY
 Contractor: Core & Main LP (Lou)

Plant: 100
 5/14/2026 1:09:52 PM

Tech: Jared - F
 PC: T. Lewis



Structure ID: CI-A1

P2 BX2436-08R36

BOX RISER 8inW F/G

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 24" x 36" - BOX RISER 8inW F/G - 36"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 55"
- 1) CASTING - HOE 525 SET FLAT GRATE (F/G/H)
- 2) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 30

0 lb
 3673 lb
 6059 lb
 442 lb
 0 lb
 0 lb

 Structure Total: 10175 lb

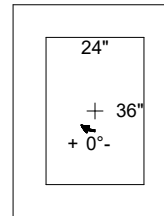
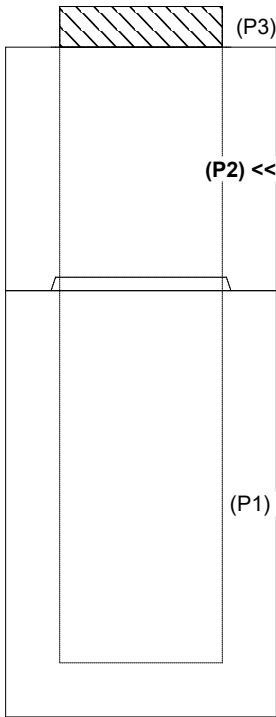
Structure Notes:
 1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE 525 SET FLAT GRATE (F/G/H)).

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

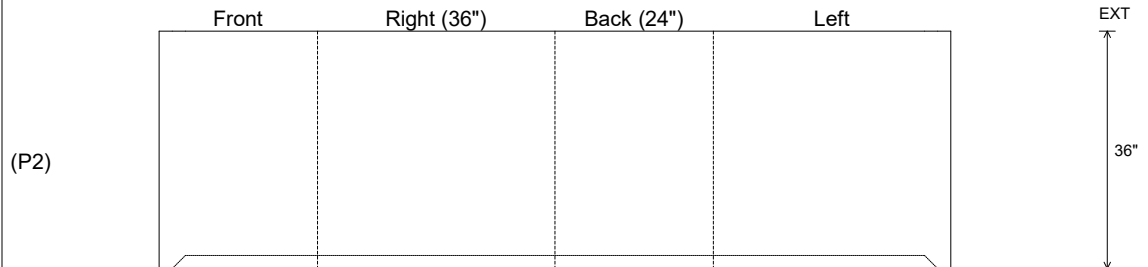
Rim: 887.42' Rim to Invert: 8.05' Slack: 1.475" Sump: 1.875" Step Position:

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 8"
 Floor Height: 0"

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

Weight (Net): 3673 lb
 Volume (Net): 0.94cu.yd

Job Name: 26-1699 - ECTC Culinary Kitchen	Plant: 100	Tech: Jared - A	
Job Location: Elizabethtown, KY	5/20/2026 8:22:31 AM	PC: M. Sullivan	
Contractor: Advanced Mechanical LLC			

Structure ID: 1 GT2500

P1 BX072144-06W06F-VF

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

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 72" x 144" - CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F - 8"	8190 lb
P1) 72" x 144" - BOX BASE 6inW, 6inF, Variable Ht F/n - 72"	22925 lb
1) SECONDARY POUR - Base Walls	0 lb
1) SECONDARY POUR - 6" Thick Baffle Wall	2481 lb
2) CASTING - HOE MC-375 F/C Grease	542 lb
1) 72" x 144" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 16M NYLO	16 lb
Structure Total:	34154 lb

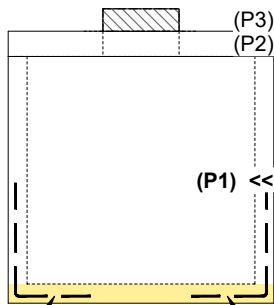
- Structure Notes:**
- PER ASTM C-890-13 SPECIFICATIONS
 - CONCRETE: 4,500 PSI AT 28 DAYS
 - REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 - NO STEPS
 - 2 EA. HOE MC-375 FRAMES & COVERS "GREASE" SUPPLIED BY ICAST
 - WET STICK 24" X 36" #5 L-BAR SPACED @ 12" C.C. E.W. (GRADE 60) OUT OF FLOOR FOR WALL POUR TIE-IN (SEE L-BAR DETAIL)

FIRST POUR (FLOOR): 6,598 LBS
SECOND POUR (WALLS): 16,327 LBS
THIRD POUR (BAFFLE WALL): 2,481 LBS

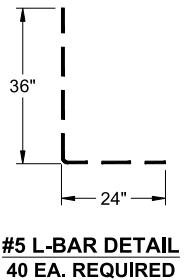
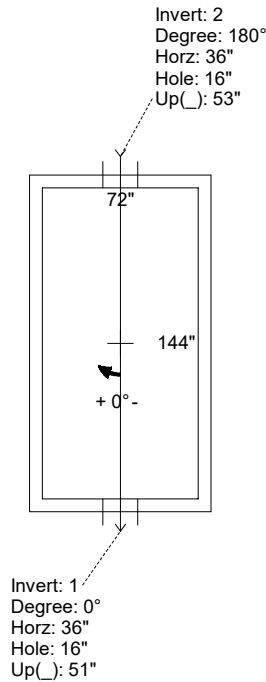
Rim: 7.25' Rim to Invert: 2.833' Slack: 0" Sump: 53.004" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	4.417'	0°	42"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16"	51"	0"
Invert 2	4.583'	180°	42"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16"	53"	0"
Invert 3										

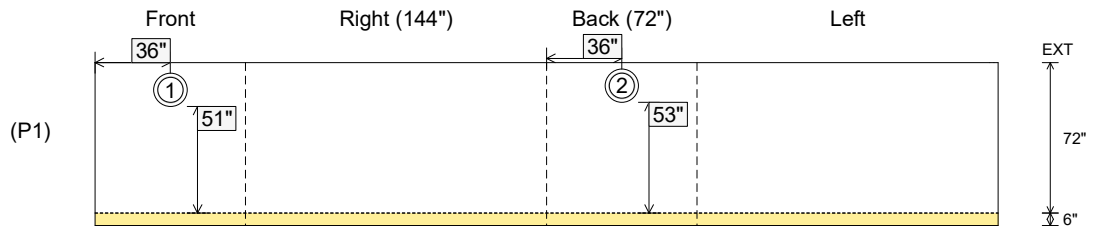
RIGHT-SIDE UP VIEW (int. dimensions)



WET STICK 24" X 36" #5 L-BARS @ 12" C.C. E.W. (GRADE 60) OUT OF FLOOR FOR WALL POUR TIE-IN



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 72" Height (Ext): 78"	Weight (Net): 22925 lb Volume (Net): 5.86cu.yd
----------------------------------	-------------------------------	----------------------------------------	----------------------------------------	---------------------------------------------------

Job Name: 26-1699 - ECTC Culinary Kitchen
 Job Location: Elizabethtown, KY
 Contractor: Advanced Mechanical LLC

Plant: 100

Tech: Jared - A

5/20/2026 8:22:31 AM

PC: M. Sullivan



Structure ID: 1 GT2500

P1 BX072144-06W06F-VF

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

- P3) 24" - CASTING HEIGHT - 7"
- P2) 72" x 144" - CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F - 8"
- P1) 72" x 144" - BOX BASE 6inW, 6inF, Variable Ht F/n - 72"
- 1) SECONDARY POUR - Base Walls
- 1) SECONDARY POUR - 6" Thick Baffle Wall
- 2) CASTING - HOE MC-375 F/C Grease
- 1) 72" x 144" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 16M NYLO

0 lb
 8190 lb
 22925 lb
 0 lb
 2481 lb
 542 lb
 0 lb
 0 lb
 16 lb

 Structure Total: 34154 lb

Structure Notes:

1. PER ASTM C-890-13 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 STEPS
5. 2 EA. HOE MC-375 FRAMES & COVERS "GREASE" SUPPLIED BY ICAST
6. PLACE STRIP OF CS-231 1" BUTYL PRIOR TO WALL POUR TO CREATE WATERTIGHT SEAL
7. LIFTERS: 4 EA. 6CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 90° & 270° WALLS, MIN. 16" FROM TOP OF WALLS

FIRST POUR (FLOOR): 6,598 LBS

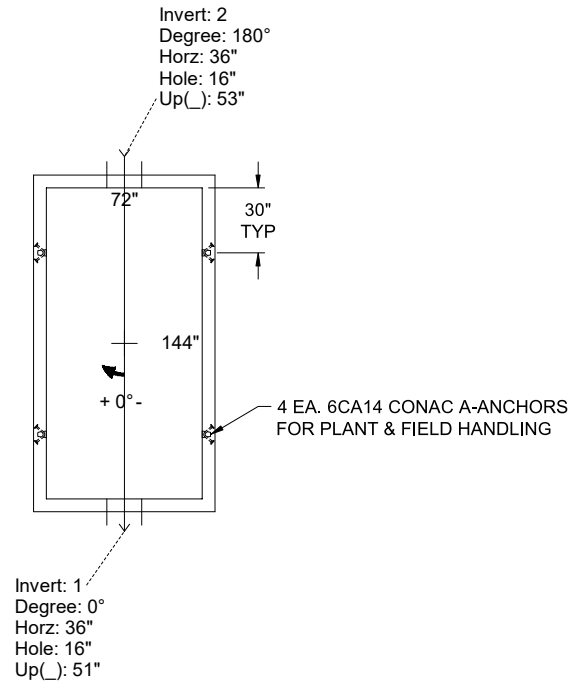
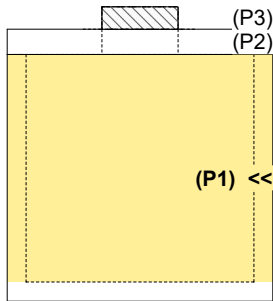
SECOND POUR (WALLS): 16,327 LBS

THIRD POUR (BAFFLE WALL): 2,481 LBS

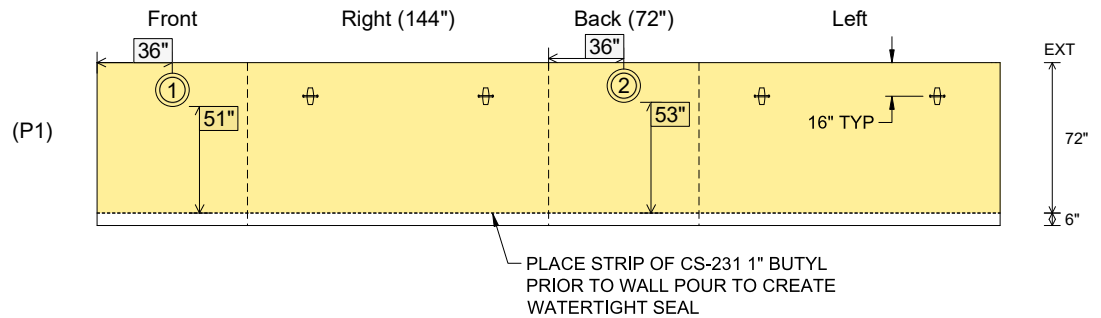
Rim: 7.25' Rim to Invert: 2.833' Slack: 0" Sump: 53.004" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	4.417'	0°	42"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16"	51"	0"
Invert 2	4.583'	180°	42"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16"	53"	0"
Invert 3										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 6"

Height (Int): 72"
 Height (Ext): 78"

Weight (Net): 22925 lb
 Volume (Net): 5.86cu.yd

Job Name: 26-1699 - ECTC Culinary Kitchen
 Job Location: Elizabethtown, KY
 Contractor: Advanced Mechanical LLC

Plant: 100

5/20/2026 8:22:31 AM

Tech: Jared - A

PC: M. Sullivan



Structure ID: 1 GT2500

P1 BX072144-06W06F-VF

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

- P3) 24" - CASTING HEIGHT - 7"
- P2) 72" x 144" - CB FLAT TOP 6"W w/(2) 24" HOLES (Grease Trap) F/F - 8"
- P1) 72" x 144" - BOX BASE 6inW, 6inF, Variable Ht F/n - 72"
- 1) SECONDARY POUR - Base Walls
- 1) SECONDARY POUR - 6" Thick Baffle Wall
- 2) CASTING - HOE MC-375 F/C Grease
- 1) 72" x 144" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 16M NYLO

0 lb
 8190 lb
 22925 lb
 0 lb
 2481 lb
 542 lb
 0 lb
 0 lb
 16 lb

 Structure Total: 34154 lb

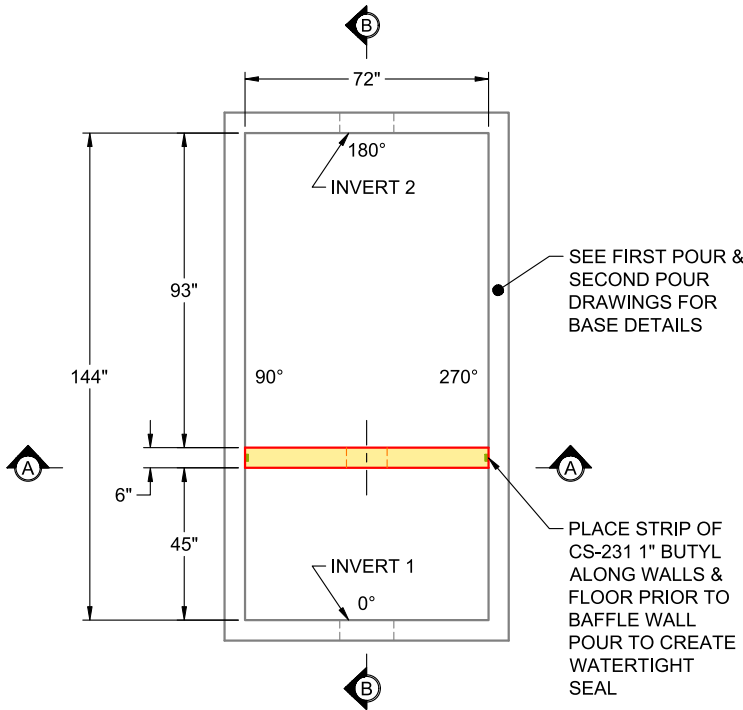
Structure Notes:

1. PER ASTM C-890-13 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. PLACE STRIP OF CS-231 1" BUTYL PRIOR TO BAFFLE WALL POUR TO CREATE WATERTIGHT SEAL
5. DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR BAFFLE WALL POUR TIE-IN - MIN. 4" PENETRATION INTO FLOOR

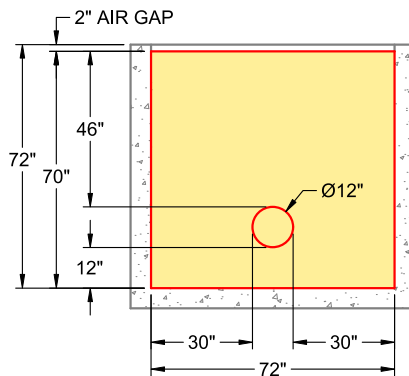
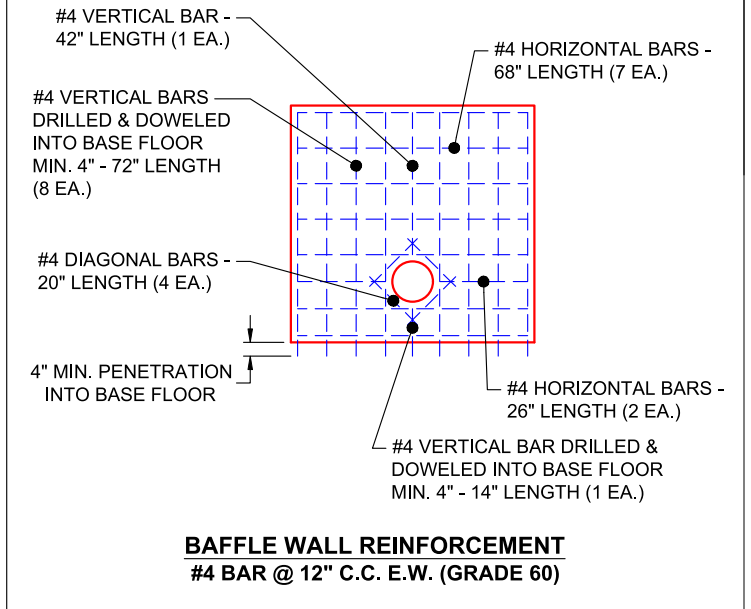
FIRST POUR (FLOOR): 6,598 LBS
SECOND POUR (WALLS): 16,327 LBS
THIRD POUR (BAFFLE WALL): 2,481 LBS

Rim: 7.25' Rim to Invert: 2.833' Slack: 0" Sump: 53.004" Step Position:

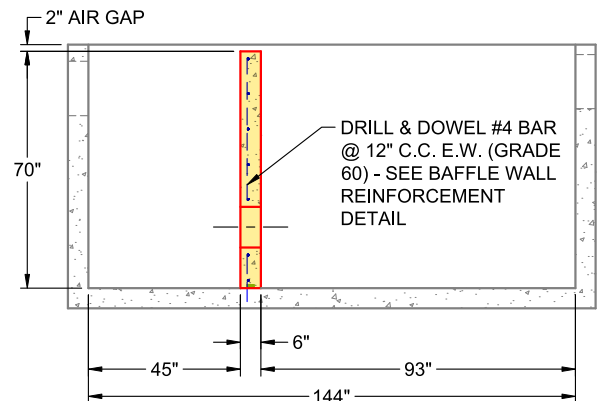
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1	4.417'	0°	42"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16"	51"	0"
Invert 2	4.583'	180°	42"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16"	53"	0"
Invert 3										



PLAN VIEW (RIGHT SIDE UP)



SECTION A-A (RIGHT SIDE UP)



SECTION B-B (RIGHT SIDE UP)

Job Name: 25-4733 - The Paddock
 Job Location: Springfield, KY
 Contractor: Core & Main LP (Lou)

Plant: 100
 5/14/2026 1:08:55 PM

Tech: Jared - F
 PC: T. Lewis



Structure ID: CI-A1

P1 BX2436-08BVF

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

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 24" x 36" - BOX RISER 8inW F/G - 36"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 55"
- 1) CASTING - HOE 525 SET FLAT GRATE (F/G/H)
- 2) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 30

0 lb
 3673 lb
 6059 lb
 442 lb
 0 lb
 0 lb

 Structure Total: 10175 lb

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

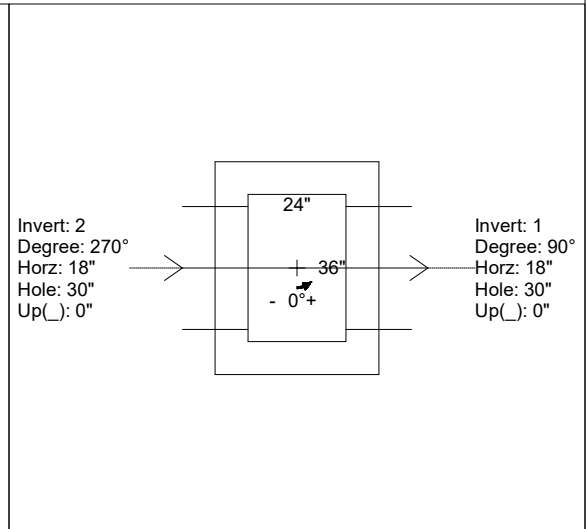
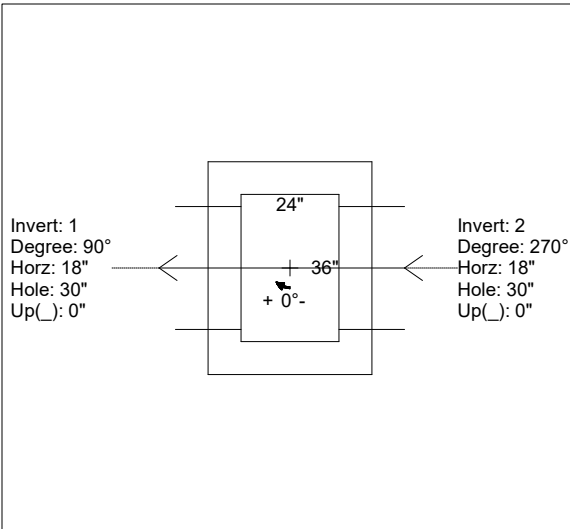
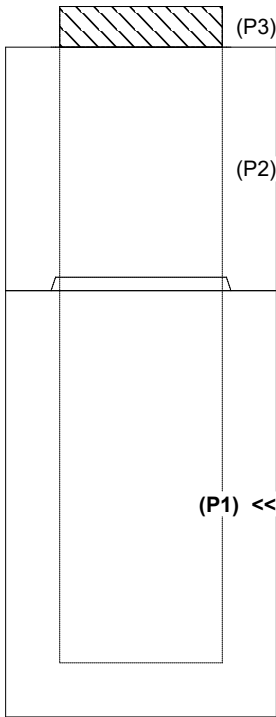
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 887.42' Rim to Invert: 8.05' Slack: 1.475' Sump: 1.875' Step Position:

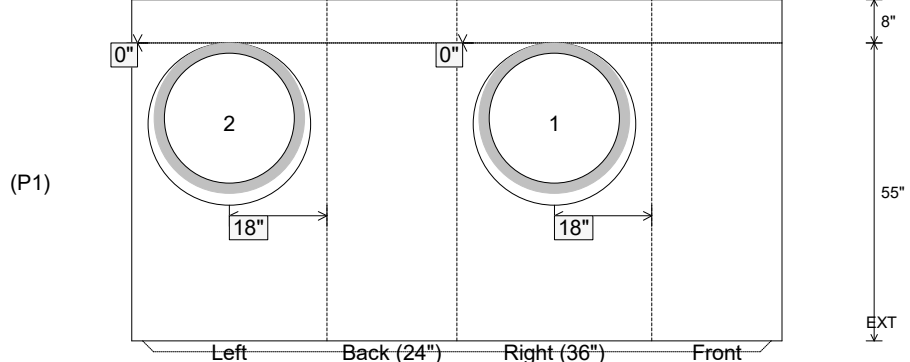
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	879.37'	90°	26"	24" HDPE	27.8"	Hole 30	30"	30"	0"	0"
Invert 2	879.37'	270°	26"	24" HDPE	27.8"	Hole 30	30"	30"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
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): 55"
 Height (Ext): 63"

Weight (Net): 6059 lb
 Volume (Net): 1.55cu.yd

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/19/2025 3:13:45 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

Structure ID: N

P1 BX28108-06W06F-BAVF

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

- P2) 28" x 108" - CASTING HEIGHT (CI TRPL) - 6"
- P1) 28" x 108" - BOX BASE 6inW, 6inF, Variable Ht F/n - 38"
- 1) Conseal CS-102 1.00" (Single)
- 3) CASTING - JBS 3080-V SET (F/G/H)
- 2) Hole - 24

0 lb
7624 lb
0 lb
1500 lb
0 lb

Structure Total: 9124 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 I-CAST (3 ea. - JBS 3080-V SET (F/G/H)).

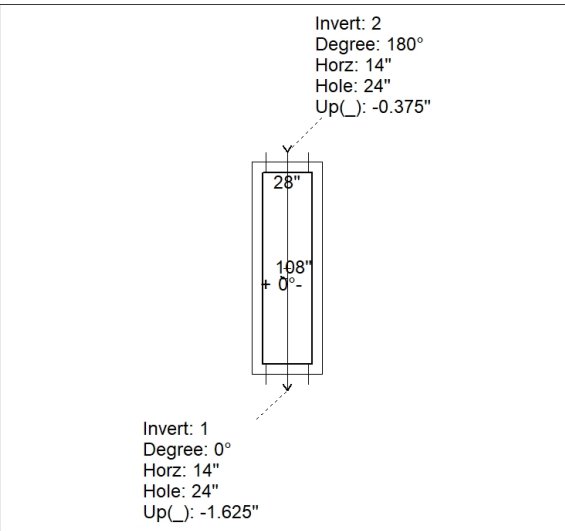
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 508.67' Rim to Invert: 3.7' Slack: 0.4" Sump: 0" Step Position:

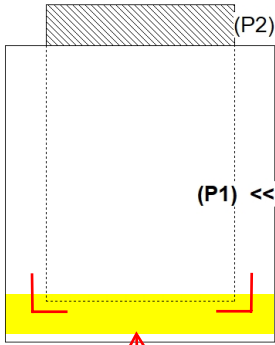
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	504.97'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2	505.07'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

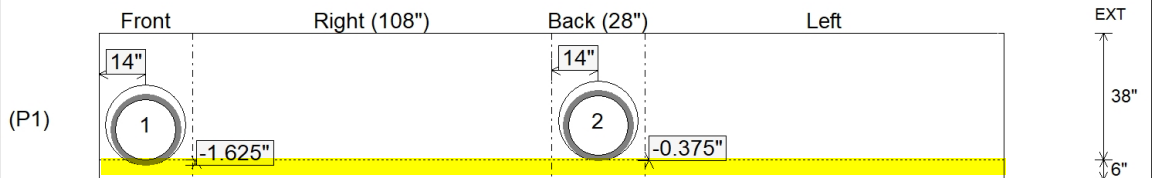
UPSIDE-DOWN VIEW (int. dimenions)



1ST POUR (FLOOR) = 2,417 LBS
 2ND POUR (WALLS) = 5,193 LBS



INSIDE WALL DIMENSIONS



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

Coating (Int):	Seam Up: Flat	Wall Thickness: 6"	Height (Int): 38"	Weight (Net): 7624 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 44"	Volume (Net): 1.95cu.yd

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/19/2025 3:13:45 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

Structure ID: N

P1A BX28108-06W06F-BAVF

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

- P2) 28" x 108" - CASTING HEIGHT (CI TRPL) - 6"
- P1) 28" x 108" - BOX BASE 6inW, 6inF, Variable Ht F/n - 38"
- 1) Conseal CS-102 1.00" (Single)
- 3) CASTING - JBS 3080-V SET (F/G/H)
- 2) Hole - 24

0 lb
7624 lb
0 lb
1500 lb
0 lb

Structure Total: 9124 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 I-CAST (3 ea. - JBS 3080-V SET (F/G/H)).

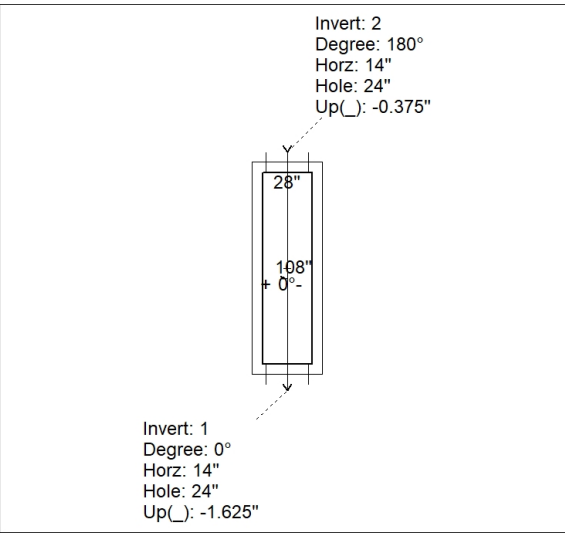
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 508.67' Rim to Invert: 3.7' Slack: 0.4" Sump: 0" Step Position:

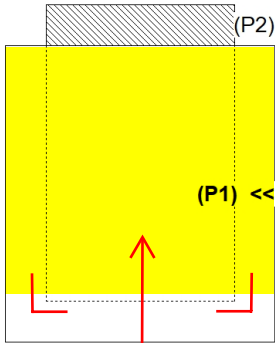
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	504.97'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2	505.07'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

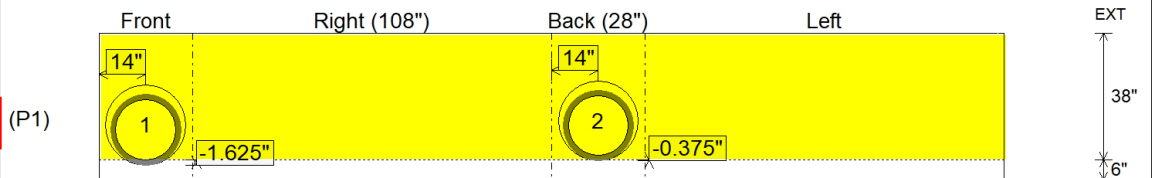


1ST POUR (FLOOR) = 2,417 LBS
 2ND POUR (WALLS) = 5,193 LBS



2ND POUR (WALLS)

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 38" Height (Ext): 44"	Weight (Net): 7624 lb Volume (Net): 1.95cu.yd
----------------------------------	-------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/17/2025 5:01:35 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

Structure ID: D

P1 BX28280606VH

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

P2) 28" x 28" - CASTING HEIGHT - 6"	0 lb
P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht F/n - 36"	3028 lb
1) Conseal CS-102 1.00" (Single)	0 lb
1) CASTING - JBS 3080-V SET (F/G/H)	500 lb
1) Hole - 24	0 lb
Structure Total:	3528 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 I-CAST (JBS 3080-V SET (F/G/H)).

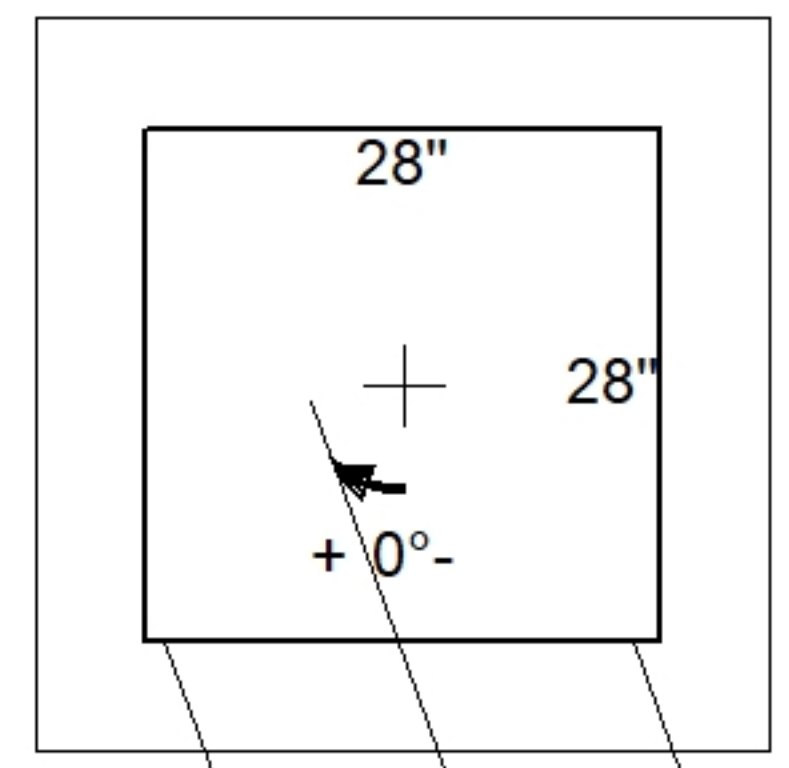
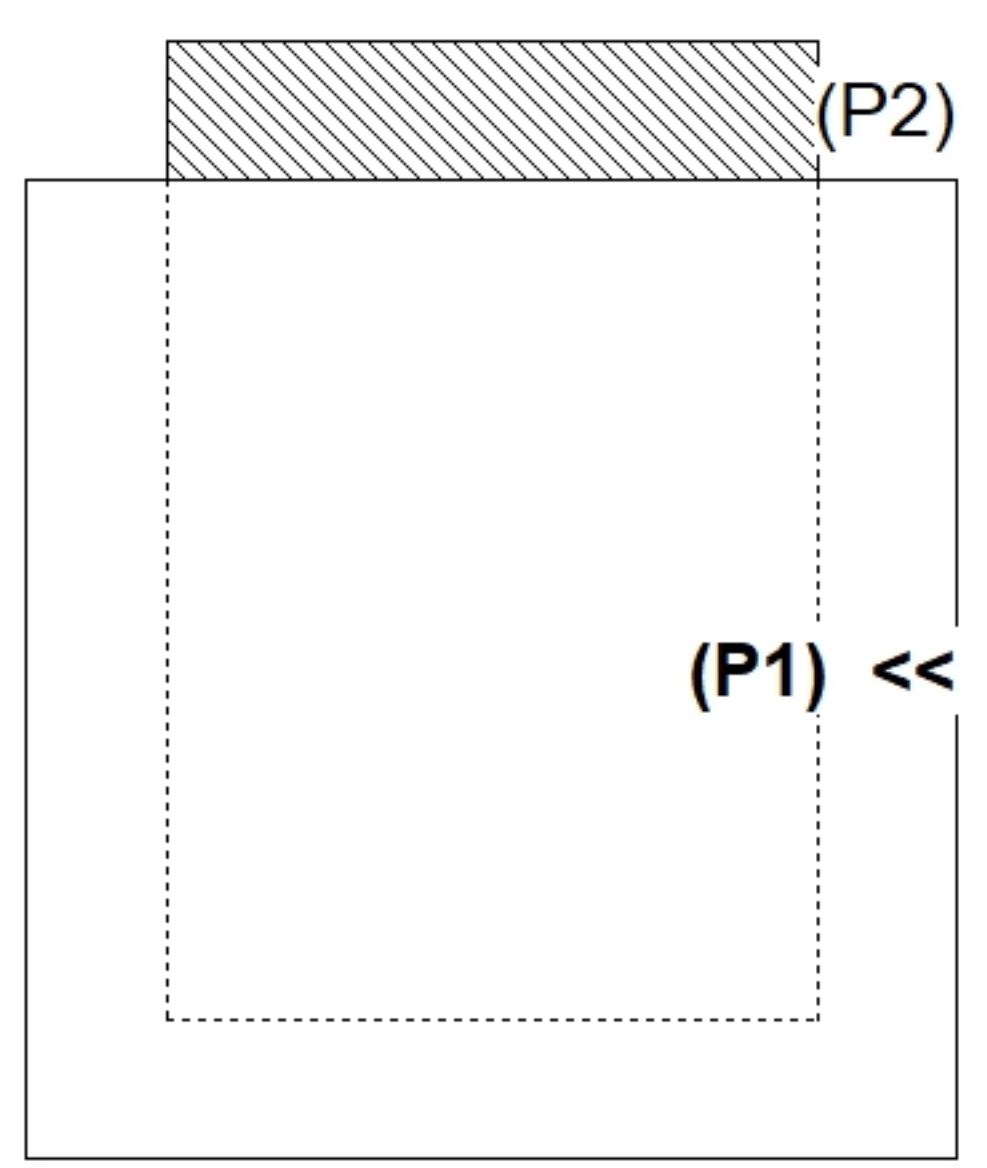
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 528.02' Rim to Invert: 3.5' Slack: 0" Sump: 0" Step Position:

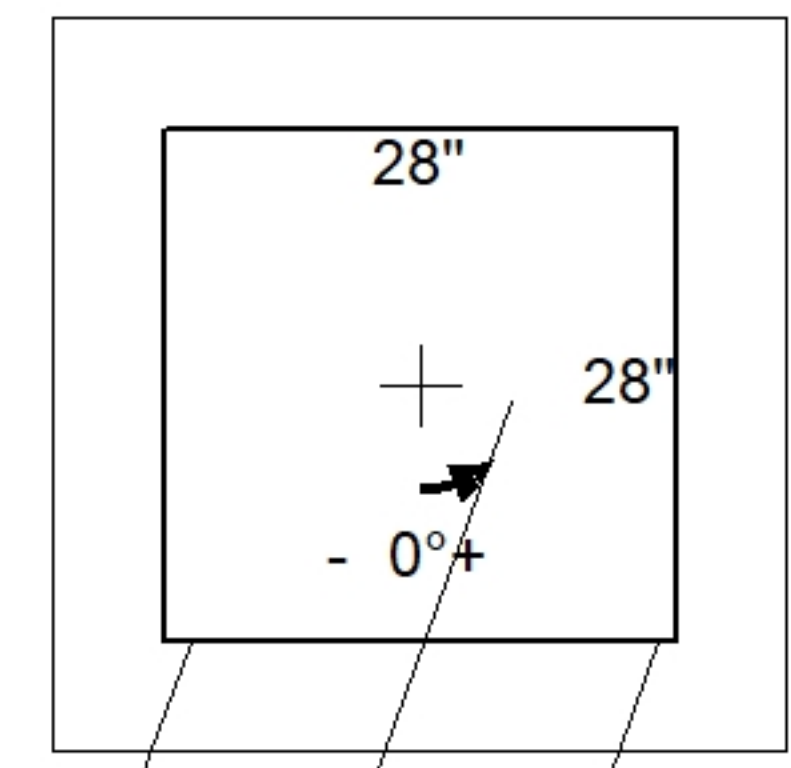
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	524.52'	340°	18"	18" HDPE	21.2"	Hole 24	24"	25.54"	-1.625"	5"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

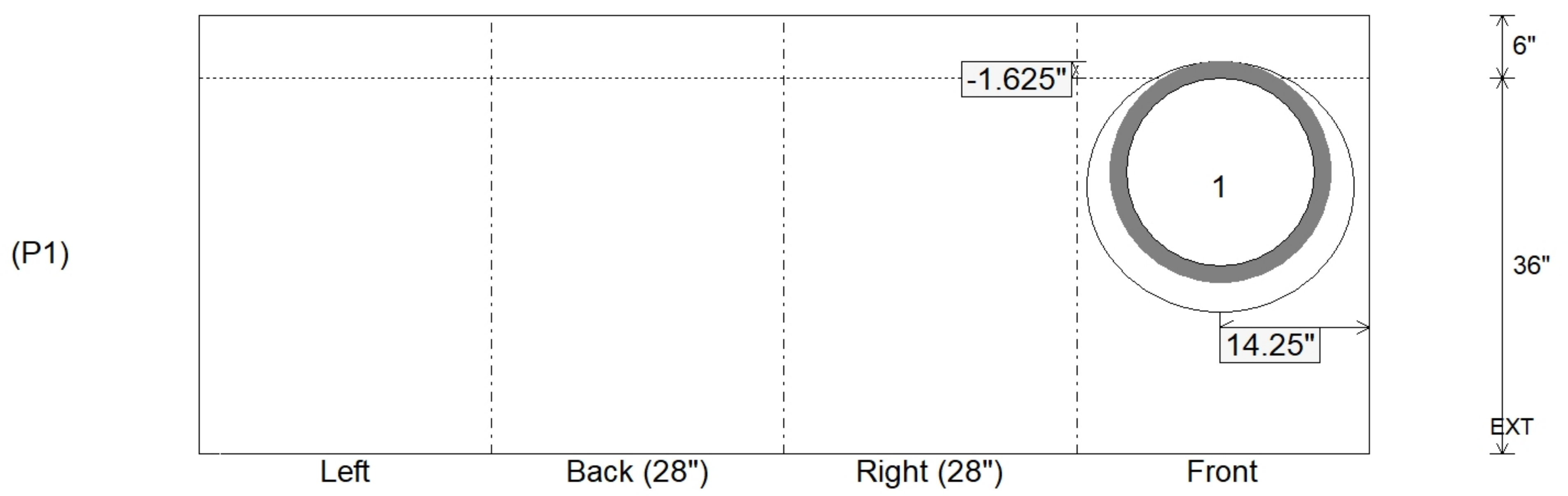


Invert: 1
 Degree: 340°
 Horz: 14.25"
 Hole: 24"
 Up(): -1.625"



Invert: 1
 Degree: 340°
 Horz: 14.25"
 Hole: 24"
 Up(): -1.625"

INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Flat	Wall Thickness: 6"	Height (Int): 36"	Weight (Net): 3028 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 42"	Volume (Net): 0.77cu.yd

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)	Plant: 100	Tech: J. Horsley - A	
Job Location: Indiana, KY Contractor: Louisville Paving and Construction	5/12/2026 12:59:30 PM	PC: J. Jarvis	

Structure ID: 140

P1 BX18180606VF

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

P3) 18" x 18" - CASTING HEIGHT - 4"	0 lb
P2) 18" x 18" - BOX RISER 6inW, Variable Ht F/G - 12"	580 lb
P1) 18" x 18" - BOX BASE 6inW, 6inF, Variable Ht T/n - 20"	1319 lb
2) 18" x 18" - Conseal CS-102 1.00"	0 lb
1) Hole - 16	0 lb
Structure Total:	1899 lb

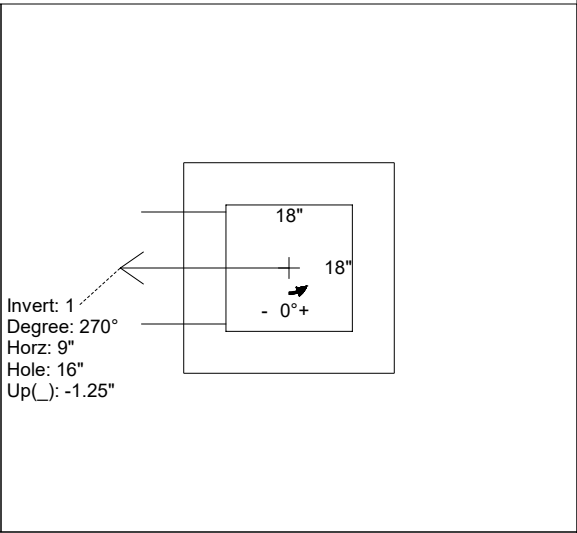
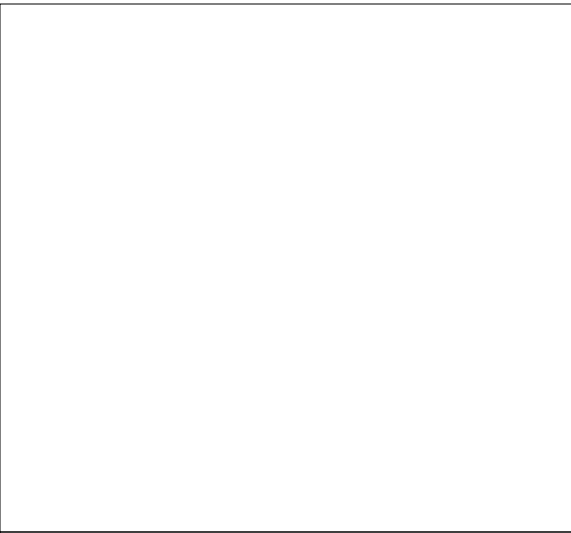
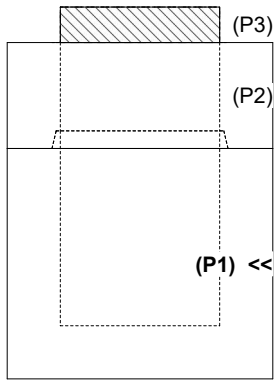
- Structure Notes:
1. PER MSD YARD DRAIN / ASTM C-913 SPECS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. NO STORM INVERT
 5. NO STEPS
 6. HOE 165-A FRAME & GRATE SUPPLIED BY OTHERS

Rim: 565.95' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

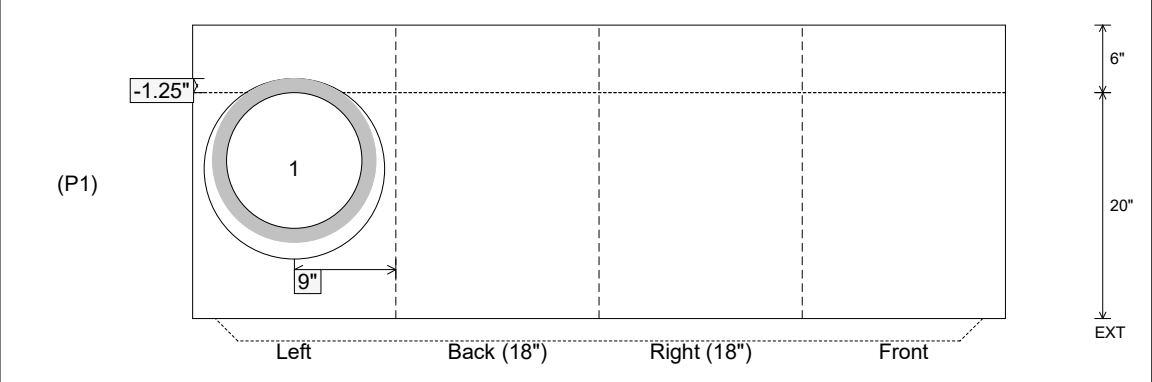
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	562.95'	270°	15"	12" HDPE	14.5"	Hole 16	16"	16"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 20" Height (Ext): 26"	Weight (Net): 1319 lb Volume (Net): 0.34cu.yd
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Job Name: 25-4299 - Seneca High School
 Job Location: Louisville, KY
 Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100
 2/13/2026 10:04:59 AM

Tech: J. Horsley
 PC: J. Jarvis



Structure ID: A24

P1 BX2436-08BVF

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

P2) 24" x 36" - CASTING HEIGHT - 6"
 P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 19"
 1) 24" x 36" - Conseal CS-102 1.00"
 2) Hole - 16

0 lb
 3044 lb
 0 lb
 0 lb

 Structure Total: 3044 lb

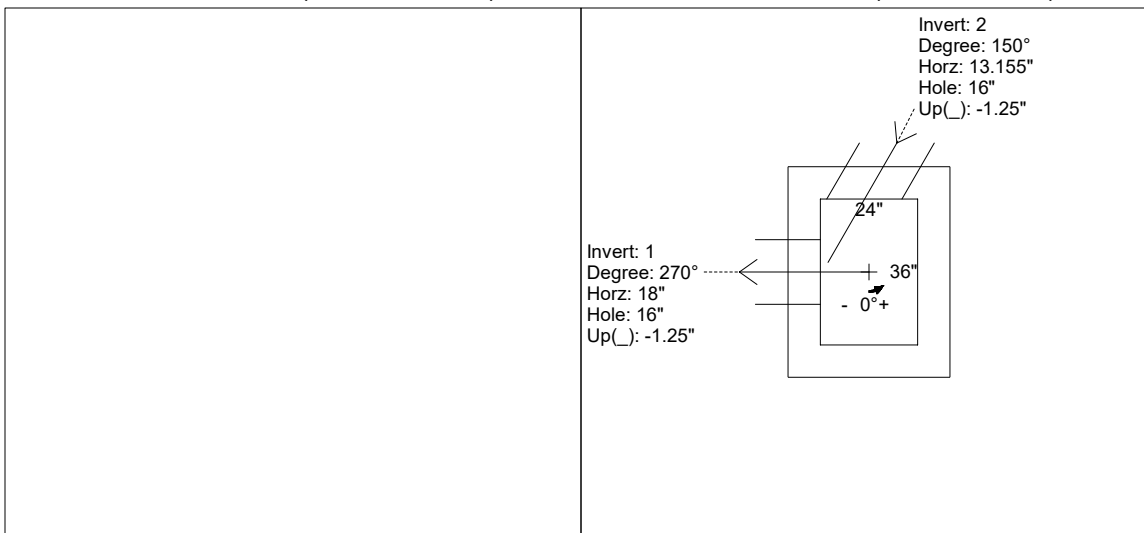
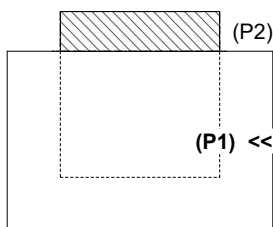
- Structure Notes:**
1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. NO STORM INVERT
 5. NO STEPS
 6. HOE 470 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 484.9' Rim to Invert: 2.1' Slack: 0.2" Sump: 0" Step Position:

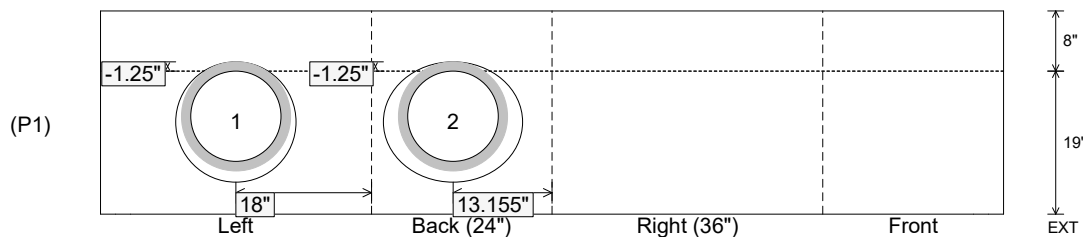
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	482.8'	270°	26"	12" HDPE	14.5"	Hole 16	16"	16"	-1.25"	0"
Invert 2	482.8'	150°	16.536"	12" HDPE	14.5"	Hole 16	16"	18.475"	-1.25"	10"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 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): 19"
 Height (Ext): 27"

Weight (Net): 3044 lb
 Volume (Net): 0.78cu.yd

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:29 AM

Tech: S. Felletter
 PC:



Structure ID: MH 5 (1+32)

P1 MH048BA30

MH BASE T/n

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"	1561 lb
P1) 48" - MH BASE T/n - 30"	3292 lb
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT	1075 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) Chimney Seal - Trelleborg FlexRib Chimney Seal	10 lb
1) CASTING - HOE WT-420-MSD F/C Storm	340 lb
1) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) PSX - 16M NYLO	8 lb
1) PSX - 12-06 NYLO	8 lb
2) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	6294 lb

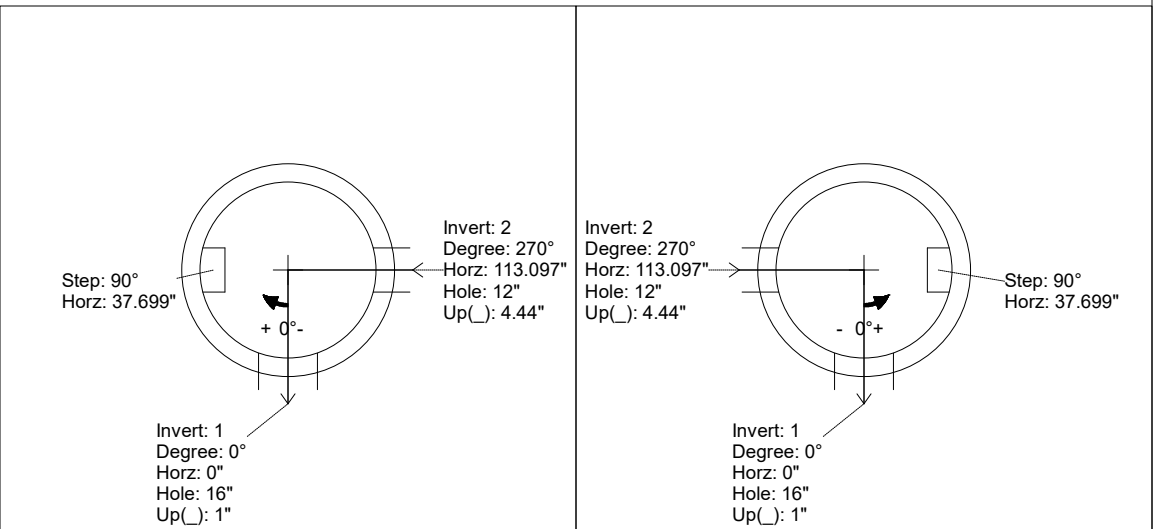
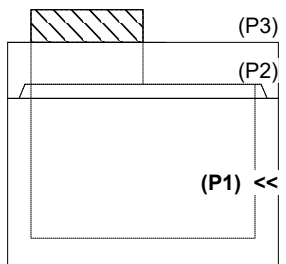
Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BAR AT 6" C.C.E.W.
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 416.01' Rim to Invert: 4.08' Slack: 2.96" Sump: 3" Step Position: 90°

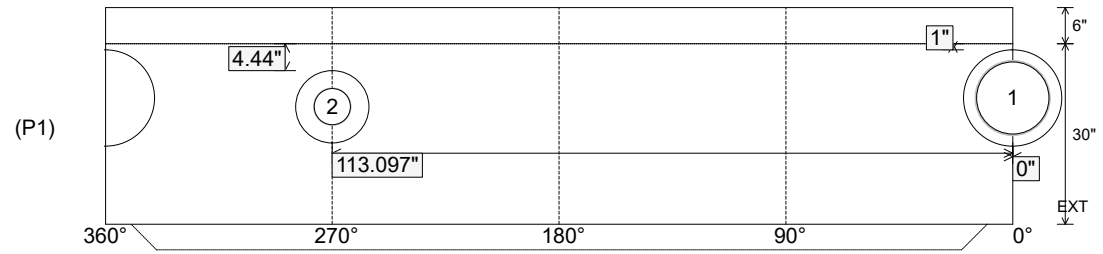
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	411.93'	0°	0"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16.312"	1"	0"
Invert 2	412.3'	270°	136.659"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	4.44"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3292 lb Volume (Net): 0.84cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:29 AM

Tech: S. Felletter
 PC:



Structure ID: MH 5 (1+32)

P1 MH048BA30

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 30"
- 1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) PSX - 16M NYLO
- 1) PSX - 12-06 NYLO
- 2) MH Step ML-10-TDS-NCR - 10"

0 lb
 1561 lb
 3292 lb
 1075 lb
 0 lb
 0 lb
 10 lb
 340 lb
 0 lb
 8 lb
 8 lb
 0 lb

Structure Total: 6294 lb

Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BAR AT 6" C.C.E.W.
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

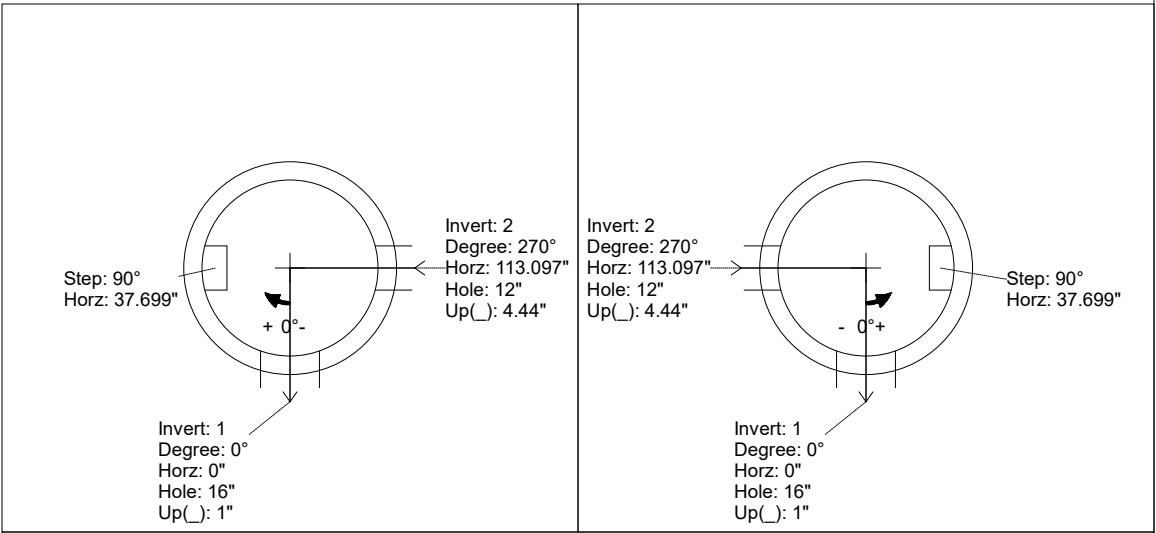
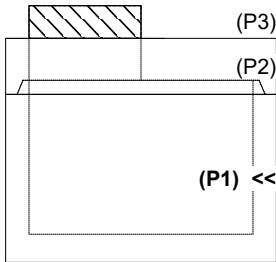
Invert channel drawing
 1/4 Height invert

Rim: 416.01' Rim to Invert: 4.08' Slack: 2.96" Sump: 3" Step Position: 90°

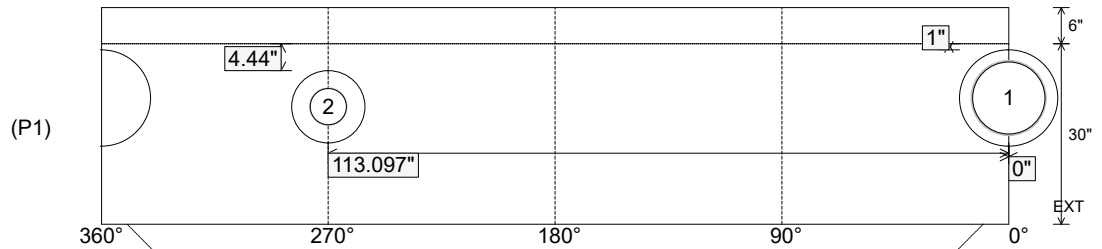
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	411.93'	0°	0"	12" PVC SDR35	12.5"	PSX 16M NYLO	16"	16.312"	1"	0"
Invert 2	412.3'	270°	136.659"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	4.44"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3292 lb Volume (Net): 0.84cu.yd
----------------------------------	---------------------------------	----------------------------------------	----------------------------------------	--------------------------------------------------

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:28 AM

Tech: S. Felletter
 PC:



Structure ID: MH 4 (0+30)

P1 MH048BA24

MH BASE T/n

- P4) 24" - CASTING HEIGHT - 7" 0 lb
 - P3) 24" - GRADE RING F/F - 4" 270 lb
 - P2) 48" - ECC CONE w/ 24" HOLE F/G - 24" 1550 lb
 - P1) 48" - MH BASE T/n - 24" 2741 lb
 - 1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT 1075 lb
 - 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 0 lb
 - 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 0 lb
 - 1) Chimney Seal - Trelleborg FlexRib Chimney Seal 10 lb
 - 1) CASTING - HOE WT-420-MSD F/C Storm 340 lb
 - 1) 48" - Conseal CS-102 1.00" (Double) 0 lb
 - 2) PSX - 18M DD 16 lb
 - 1) PSX - 12-06 NYLO 8 lb
 - 4) MH Step ML-10-TDS-NCR - 10" 0 lb
- Structure Total: 6010 lb

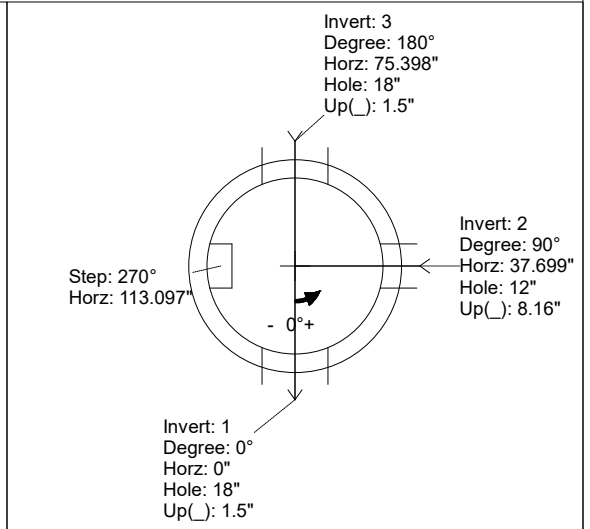
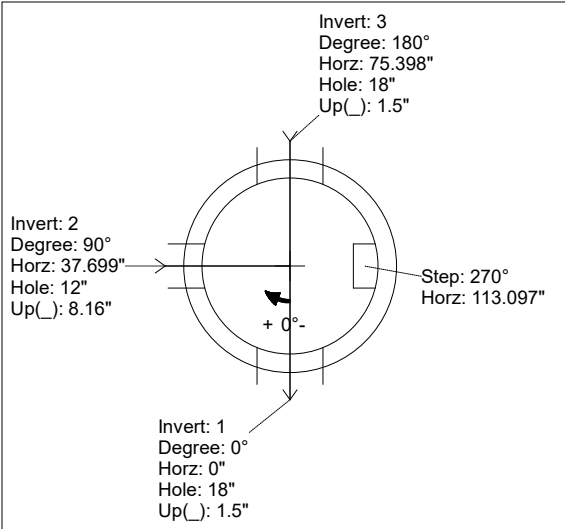
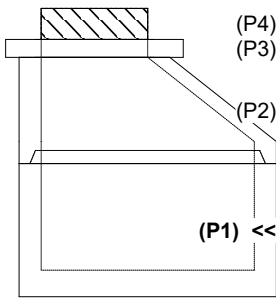
Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 410.86' Rim to Invert: 4.74' Slack: 0.88" Sump: 3" Step Position: 270°

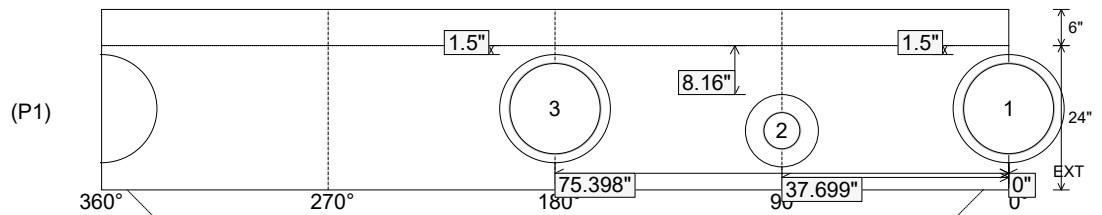
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	406.12'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	406.8'	90°	45.553"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	8.16"	0"
Invert 3	406.12'	180°	91.106"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 2741 lb
 Volume (Net): 0.7cu.yd

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:28 AM

Tech: S. Felletter
 PC:



Structure ID: MH 4 (0+30)

P1 MH048BA24

MH BASE T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - GRADE RING F/F - 4"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 24"
- 1) **48" - STORM INVERT CHANNEL - 1/4 HEIGHT**
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 18M DD
- 1) PSX - 12-06 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 1550 lb
 2741 lb
 1075 lb
 0 lb
 0 lb
 10 lb
 340 lb
 0 lb
 16 lb
 8 lb
 0 lb

 Structure Total: 6010 lb

Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Invert channel drawing
 1/4 Height invert

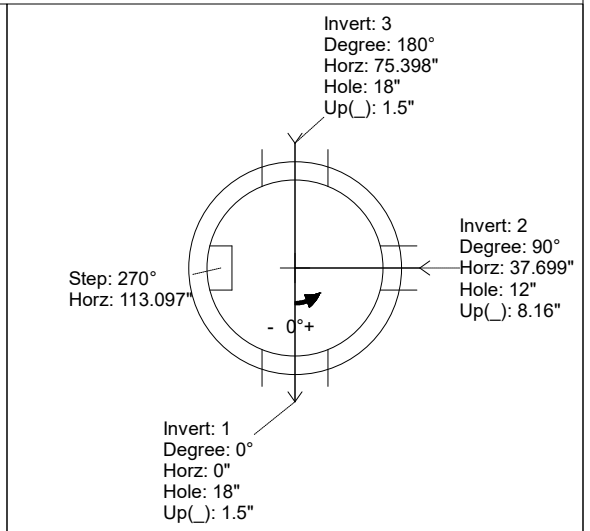
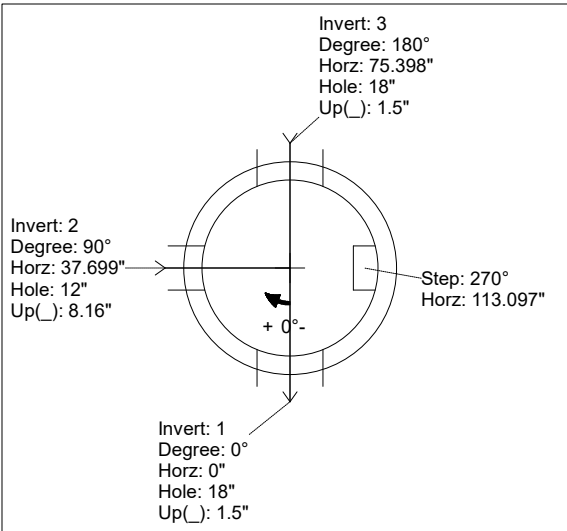
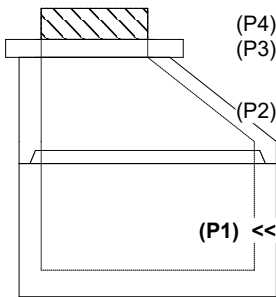
Structure Total: 6010 lb

Rim: 410.86' Rim to Invert: 4.74' Slack: 0.88" Sump: 3" Step Position: 270°

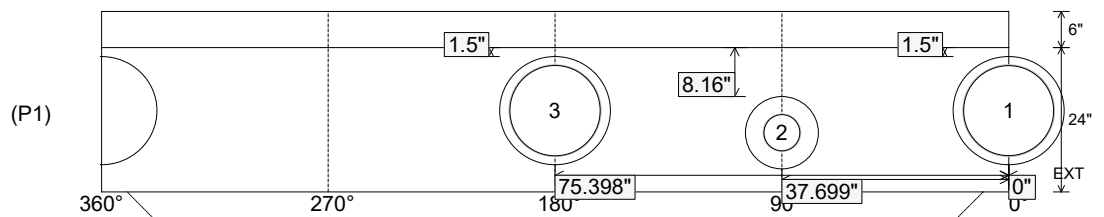
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	406.12'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	406.8'	90°	45.553"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	8.16"	0"
Invert 3	406.12'	180°	91.106"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 2741 lb
 Volume (Net): 0.7cu.yd

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:27 AM

Tech: S. Felletter
 PC:



Structure ID: MH 2 (2+91)

P1 MH048BA24

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 24"
- 1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 18M DD
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 1550 lb
 2789 lb
 1075 lb
 0 lb
 0 lb
 10 lb
 340 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 5780 lb

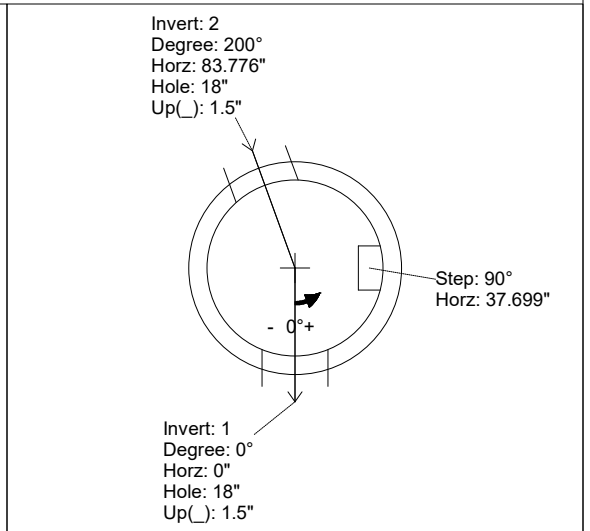
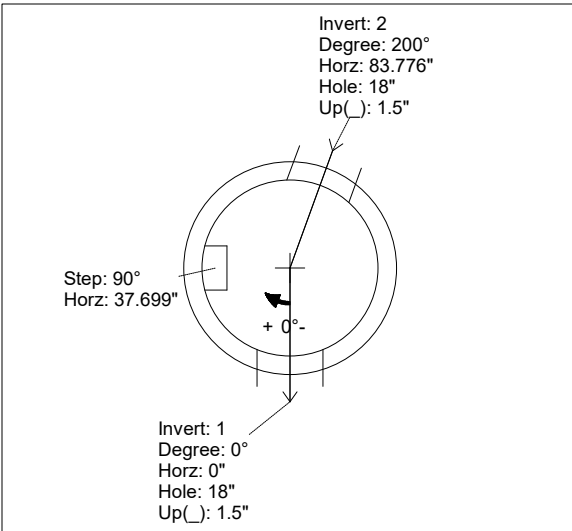
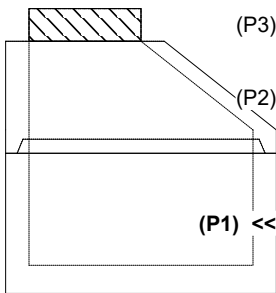
Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 415.88' Rim to Invert: 4.55' Slack: 2.6" Sump: 3" Step Position: 90°

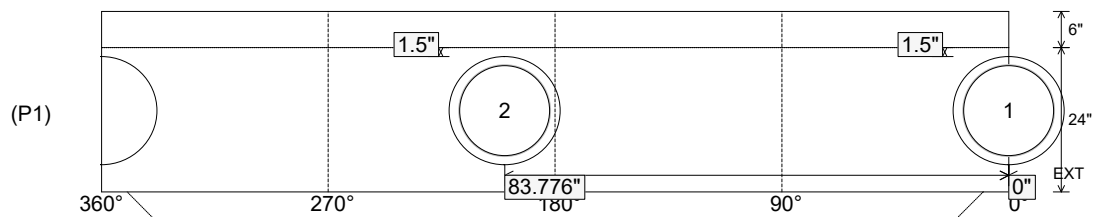
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	411.33'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	411.33'	200°	101.229"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 2789 lb
 Volume (Net): 0.71cu.yd

Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:27 AM

Tech: S. Felletter
 PC:



Structure ID: MH 2 (2+91)

P1 MH048BA24

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 24"
- 1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) Chimney Seal - Trelleborg FlexRib Chimney Seal
- 1) CASTING - HOE WT-420-MSD F/C Storm
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 18M DD
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 1550 lb
 2789 lb
 1075 lb
 0 lb
 0 lb
 10 lb
 340 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 5780 lb

Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS.
 2. CONCRETE = 5,000 PSI AT 28 DAYS.
 3. CASTING BY ICST (HOE MC-420).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12).
 - RISER/WALLS (As .12).
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

**Invert channel drawing
 1/4 Height invert**

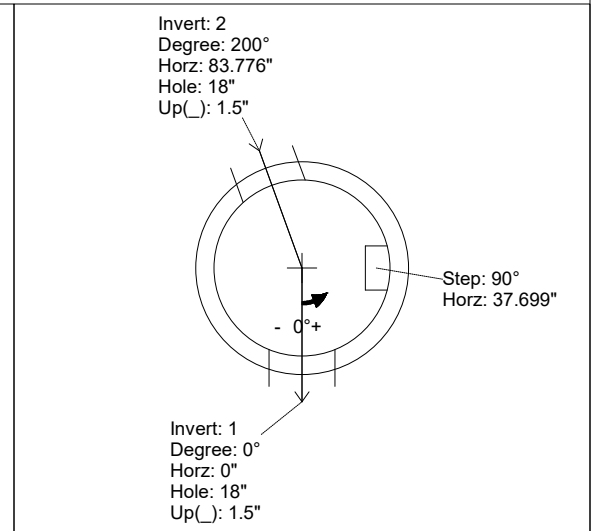
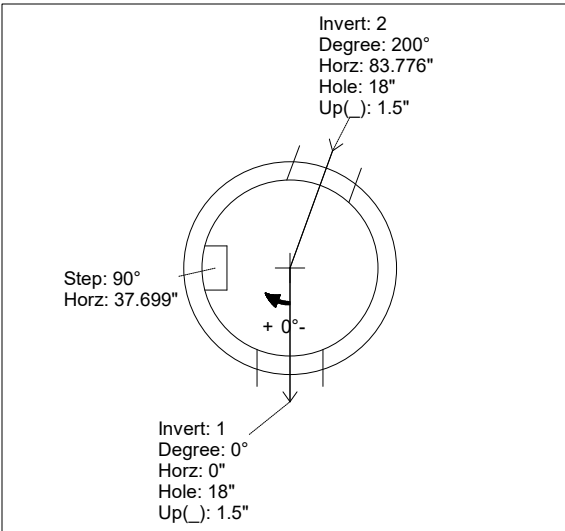
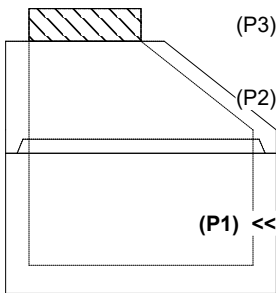
Structure Total: 5780 lb

Rim: 415.88' Rim to Invert: 4.55' Slack: 2.6" Sump: 3" Step Position: 90°

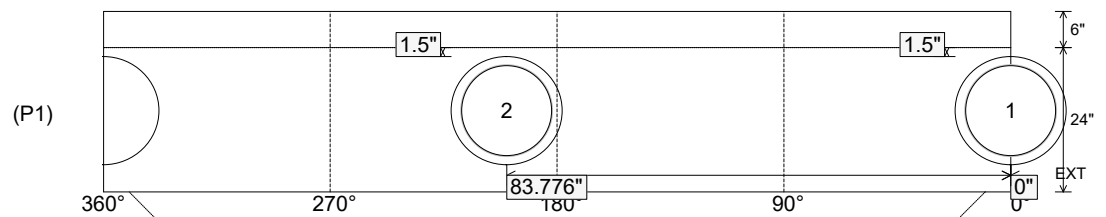
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	411.33'	0°	0"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 2	411.33'	200°	101.229"	15" PVC SDR35	15.3"	PSX 18M DD	18"	18.451"	1.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 2789 lb
 Volume (Net): 0.71cu.yd

Structure ID: AB

P1 HWA18F

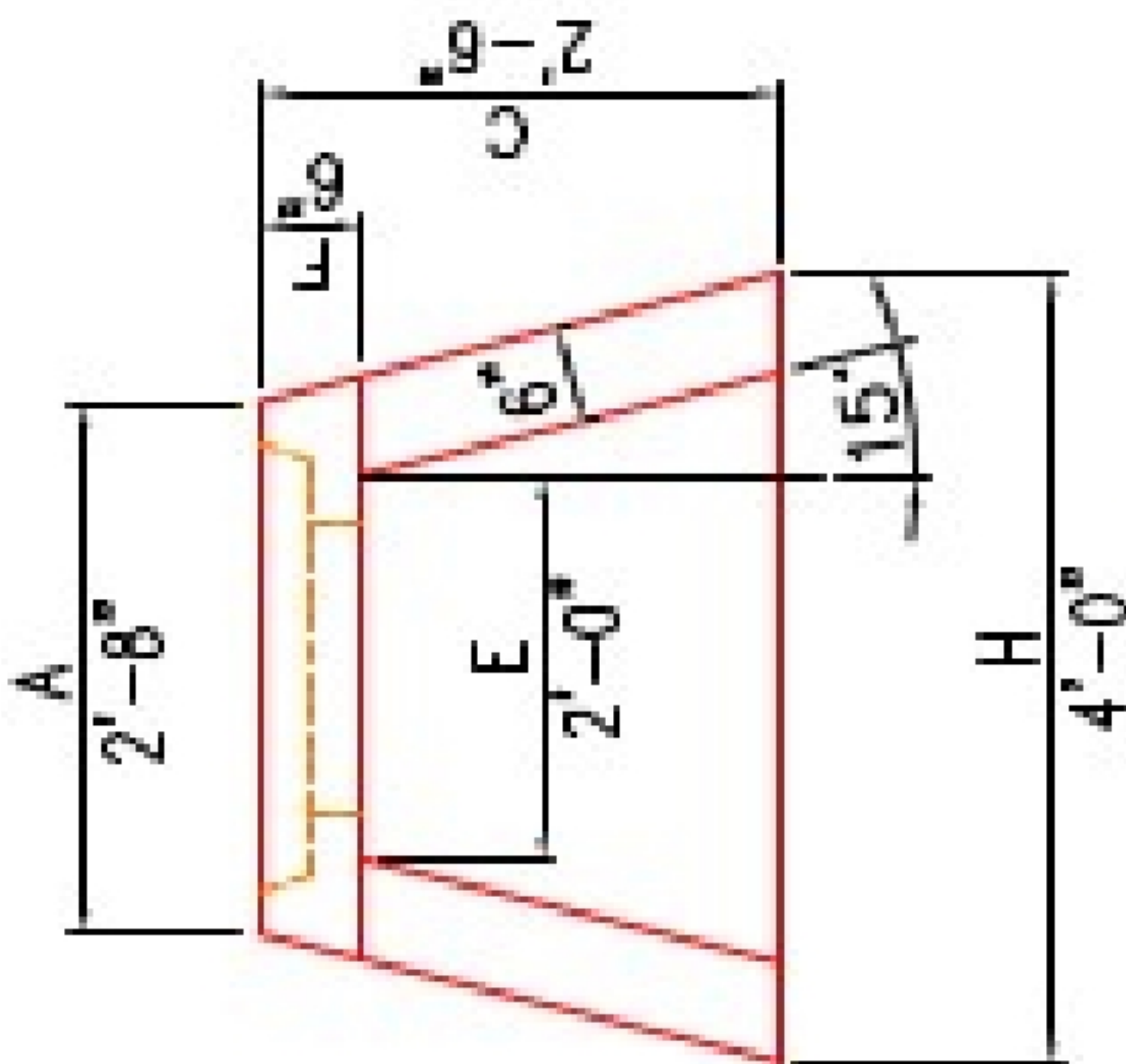
18" - HW AW w/FLAT BOTTOM F/F

DIMENSIONS & QUANTITIES

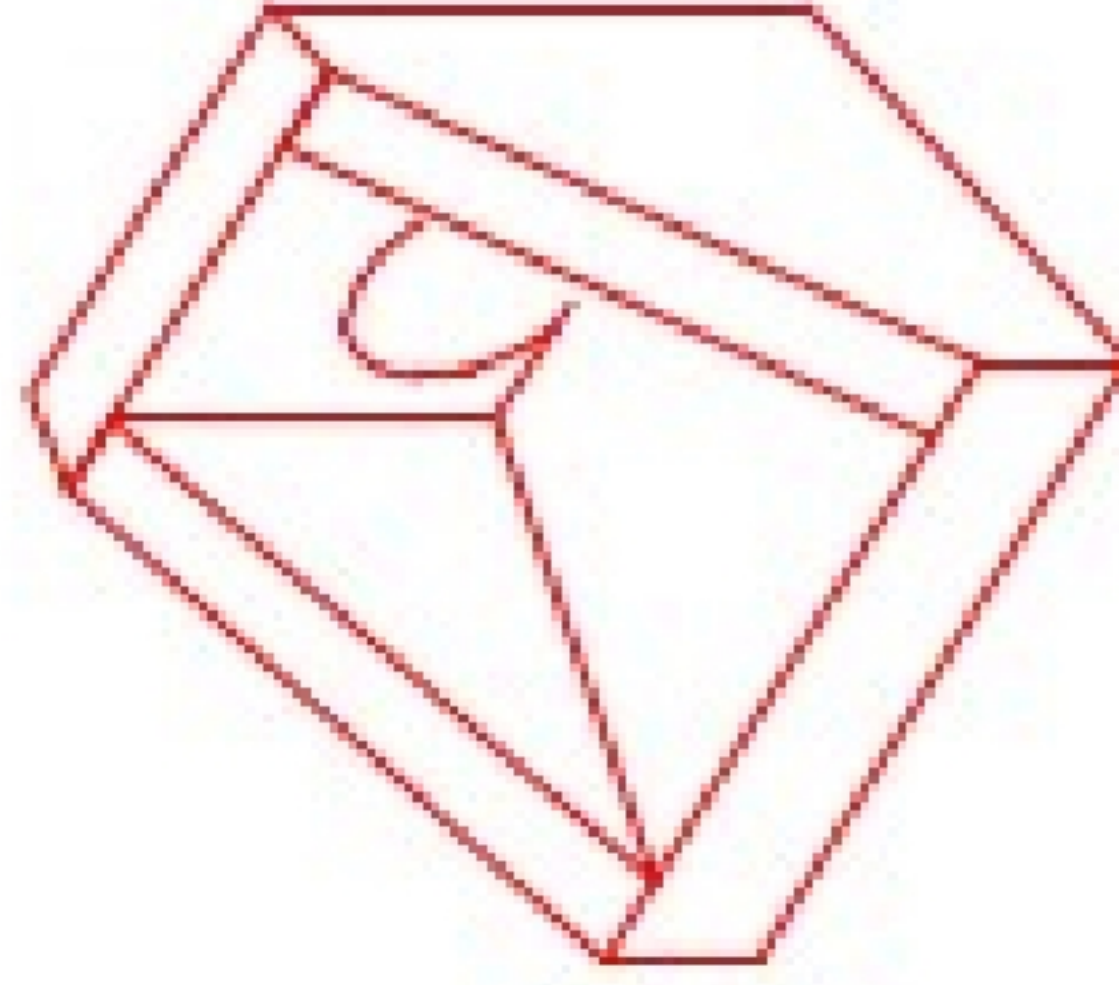
TYPE	PIPE Ø	A	B	C	D	E	F	G	H	WEIGHT W/TOE	WEIGHT
AW	18"	2'-8"	2'-8"	2'-6"	2'-2"	2'-0"	6"	0"	4'-0"	1,830 LBS.	1,380 LBS.

NOTES:

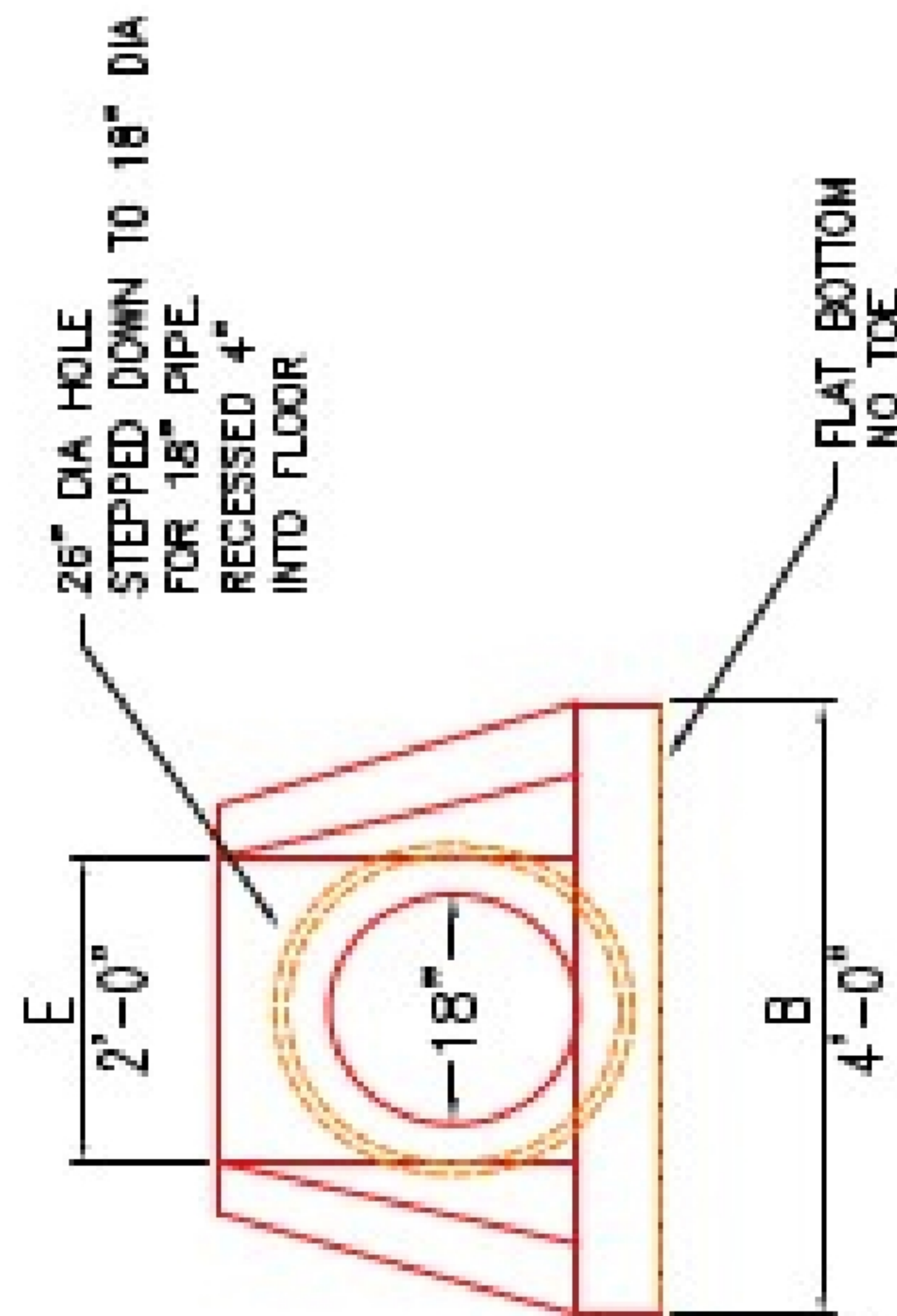
1. CONCRETE: 4500 PSI AT 28 DAYS MINIMUM COMPRESSIVE STRENGTH.
2. REINFORCING: #4 BAR @ 12" C/C E.W.-GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
3. REINFORCING BARS TO BE TACK WELDED OR TIED.
4. PIPE AND LIFTING ANCHOR POCKETS TO BE GROUTED WITH NON-SHRINK GROUT AFTER SETTING.
5. PREFORMED STEPPED HOLE SIZED AS PER O.D. OF PIPE + 3" - 4".
6. OPTIONAL FOOTING (TOE) AVAILABLE FOR ALL SIZES.



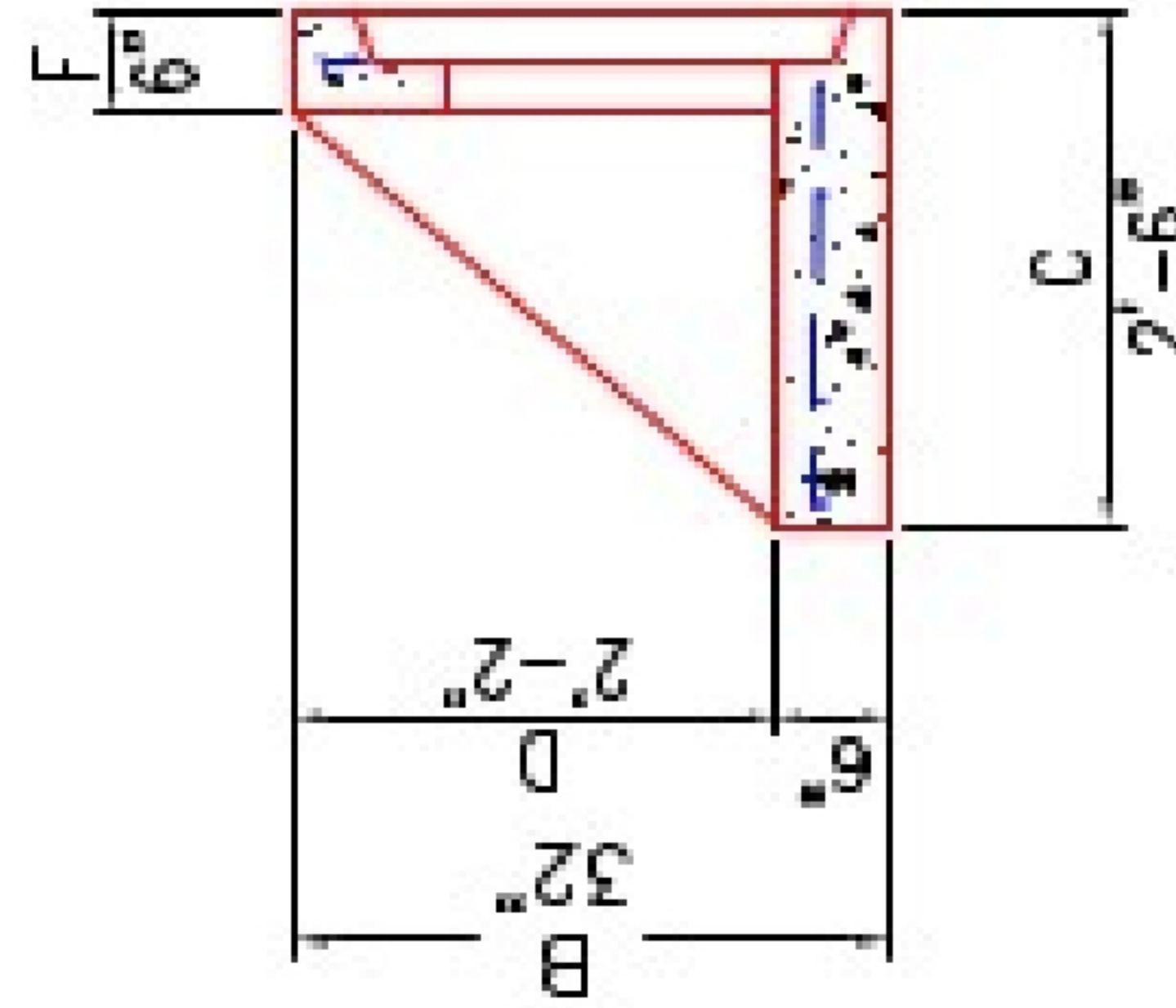
PLAN VIEW



ISOMETRIC VIEW



FRONT ELEVATION



SECTION A-A

PRODUCTION WORK ORDER

QUALITY CONTROL CHECKLIST

- ALL DIMENSIONS CORRECT.
- LIFTERS INSTALLED.
- STEPPED HF CORRECT SIZE.
- REINFORCING CORRECT.
- CLEARANCE ON REINFORCING CORRECT.
- EDGES CHAMFERED.
- ALL PATCHWORK ACCEPTABLE.



DESCRIPTION: 18in AW WINGED HEADWALL, FLAT

CUSTOMER: STOOK
 PROJECT: STOOK
 STRUCTURE ID.: T.B.D.
 SALES ORDER NO: T.B.D.
 PC: B. KELLY DRAWING: J. HORSLEY
 DATE: 10/30/23 SCALE: NTS PG. 1 of 1



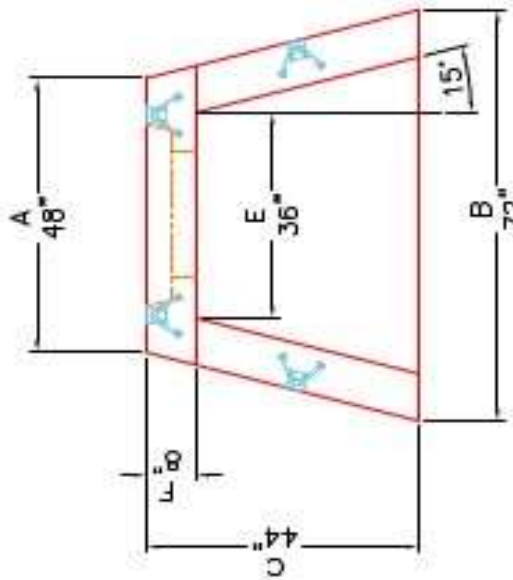
Structure ID: STM-A1

P1 HWBW24F

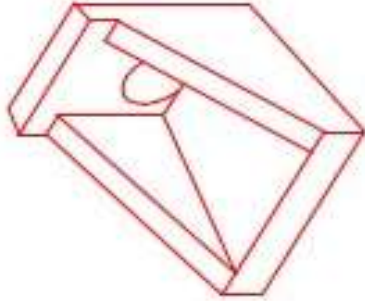
24" - HW BW w/FLAT BOTTOM

DIMENSIONS & QUANTITIES

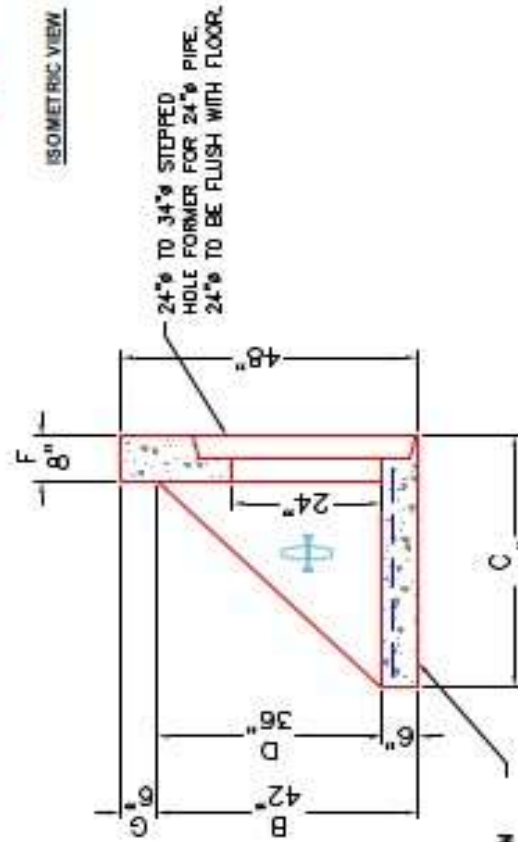
TYPE	PIPE Ø	A	B	C	D	E	F	G	WEIGHT
BW	24"	4'-0"	6'-0"	3'-8"	3'-0"	3'-0"	6"	6"	3,100 LBS.



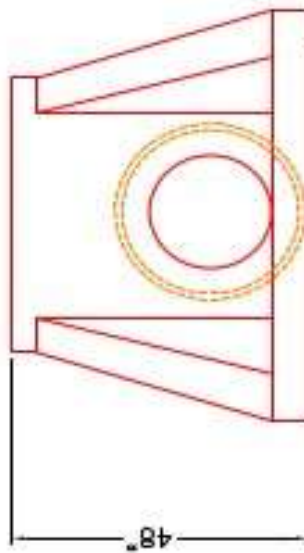
PLANVIEW



ISOMETRIC VIEW



SECTION A-A



FRONT ELEVATION

NOTES:

1. CONCRETE: 4500 PSI AT 28 DAYS MIN. STRENGTH.
2. REINFORCING: #4 BAR @ 12" C/C E.W. - GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
3. REINFORCING BARS TO BE TACK WELDED OR TIED.

PRODUCTION WORK ORDER

QUALITY CONTROL CHECKLIST

- ALL DIMENSIONS CORRECT.
- LIFTERS INSTALLED.
- STOPPED HF CORRECT SIZE.
- REINFORCING CORRECT.
- CLEARANCE ON REINFORCING CORRECT.
- EDGES CHAMFERED.
- ALL PATCHWORK ACCEPTABLE.

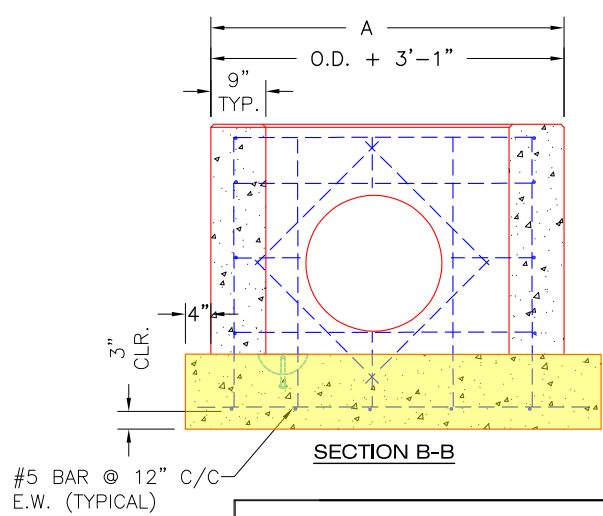
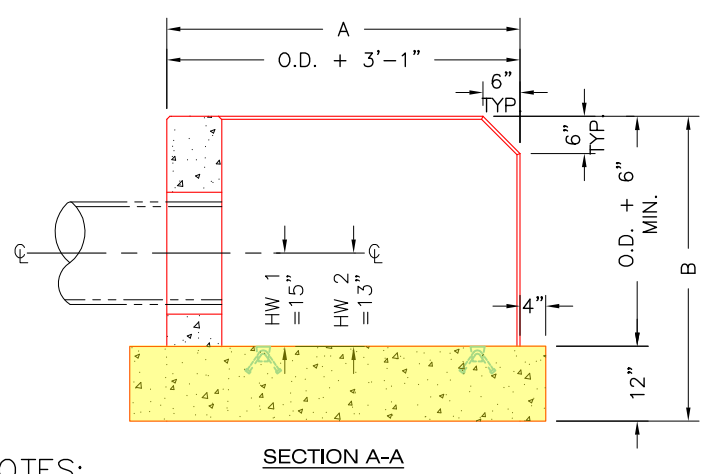
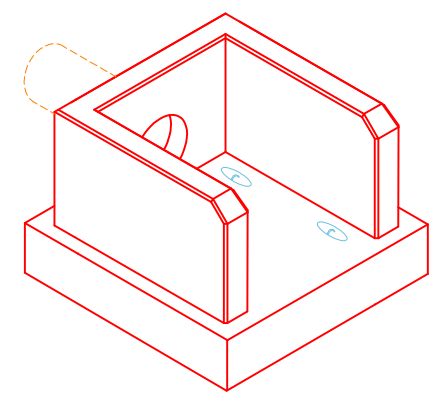
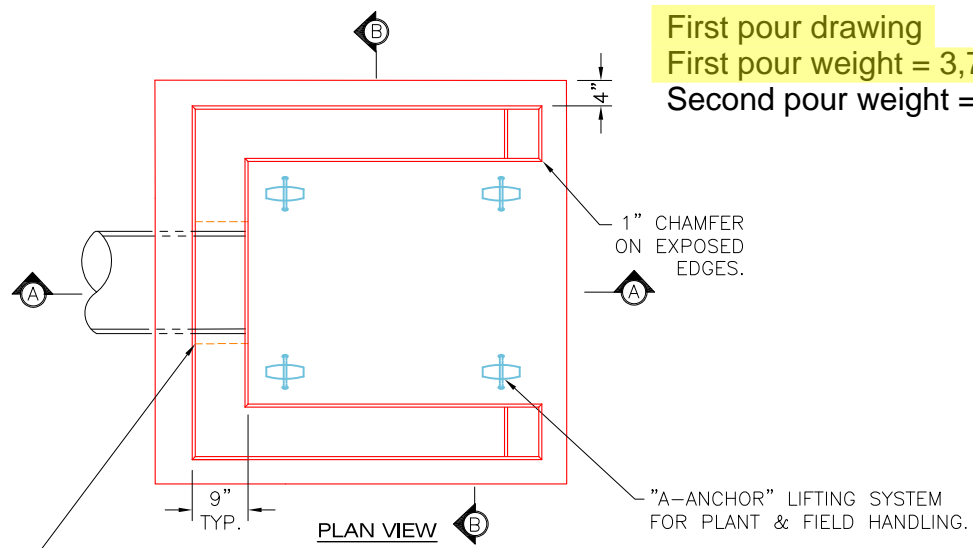


PRODUCT I.D.: HWBW24F	DESCRIPTION: 24in BW HEADWALL FLAT BOTTOM
PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: STOCK
PLANT: BEAVER DAM, KY.	PROJECT: T.B.D.
WEIGHT: 3,475 LBS.	STRUCTURE ID: T.B.D.
TOP SECTION JOINT: N/A	SALES ORDER NO: STOCK
BASE SECTION JOINT: N/A	CHECK: B. SMITH
QC CHECK INITIALS:	DRAWING: J. HORSLEY
	DATE: 06/04/24
	SCALE: NTS
	PG. 1 of 1

P1 Structure ID: HDWL. 1
HWLOUMSD-U-15
15" - HW LOU-MSD "U" HEADWALL F/F

DIMENSIONS & WEIGHTS FOR PVC PIPE					
PIPE ϕ	PVC O.D.	A	B	HF ϕ	WEIGHT
12"	12.5"	50"	38"	16"	5,845 LBS.
15"	15.3"	52"	42"	18"	6,575 LBS.
18"	18.7"	56"	48"	22"	7,920 LBS.
24"	24.8"	62"	54"	28"	9,800 LBS.

First pour drawing
First pour weight = 3,750 LBS
Second pour weight = 2,825 LBS



~NOTES:

1. CONCRETE: 4,500 PSI @ 28 DAYS.
2. REINFORCING: #5 BAR @ 12" C/C E.W., GRADE 60, WITH 2" CONCRETE COVER MIN. (TYPICAL).
3. 1" CHAMFER REQUIRED ON EXPOSED EDGES.
4. CAGE REINFORCING BARS TO BE TACK WELDED OR TIED.
5. PIPE AND LIFTING ANCHOR POCKETS TO BE GROUTED WITH MSD APPROVED NON-SHRINK GROUT.
6. DRAWING TO BE USED IN CONJUNCTION WITH MSD STANDARD DRAWING DH-03-01.
7. PREFORMED HOLE SIZES ARE OUTSIDE DIAMETER OF PIPE + 3"-4".

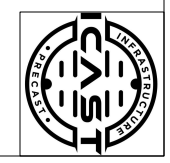
INFRASTRUCTURE PRECAST, INC.
 981 WEST 7TH ST., BEAVER DAM, KY. 42320
 PHONE: (270) 363-2238, FAX: (270) 298-7424

MSD 12"-24" "U" HEADWALL
 (FOR CIRCULAR OR NON-CIRCULAR PIPE)

DRAWING NO.: ET-MSD-403	DATE: 07-31-24
REVIEWED BY: J.H. ROSS, PE	DRAWN BY: N. RICHARDS
WEB: WWW.ICASTINC.COM	SCALE: NTS

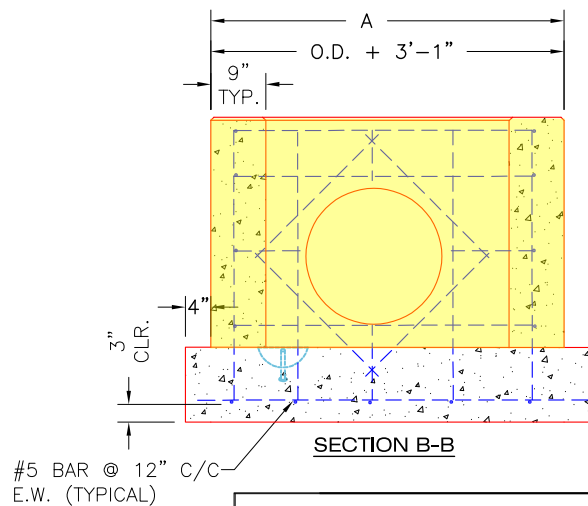
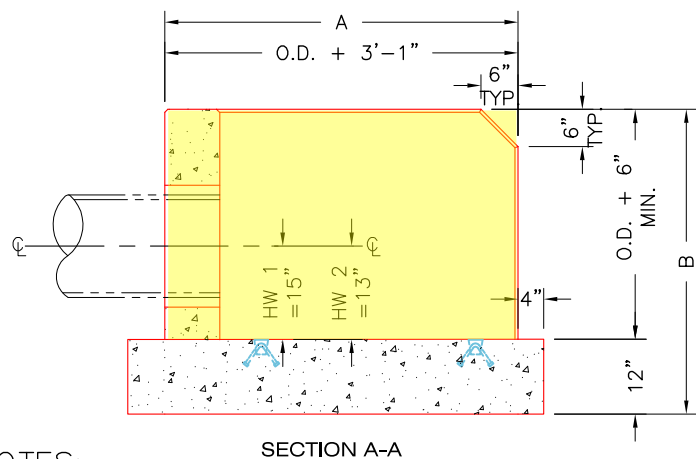
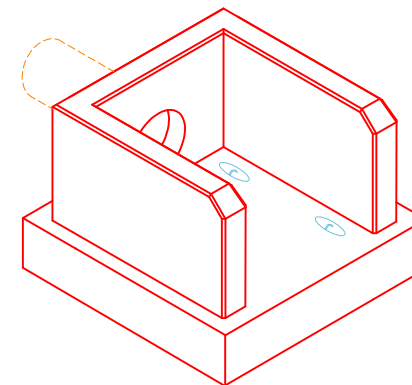
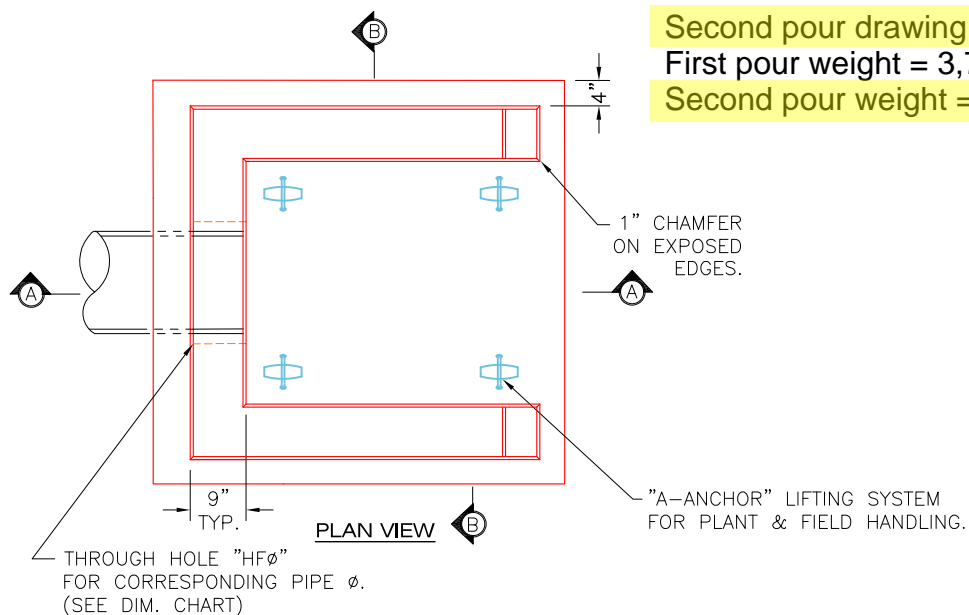


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DIMENSIONS & WEIGHTS FOR PVC PIPE					
PIPE ϕ	PVC O.D.	A	B	HF ϕ	WEIGHT
12"	12.5"	50"	38"	16"	5,845 LBS.
15"	15.3"	52"	42"	18"	6,575 LBS.
18"	18.7"	56"	48"	22"	7,920 LBS.
24"	24.8"	62"	54"	28"	9,800 LBS.

Second pour drawing
 First pour weight = 3,750 LBS
 Second pour weight = 2,825 LBS



~NOTES:

1. CONCRETE: 4,500 PSI @ 28 DAYS.
2. REINFORCING: #5 BAR @ 12" C/C E.W., GRADE 60, WITH 2" CONCRETE COVER MIN. (TYPICAL).
3. 1" CHAMFER REQUIRED ON EXPOSED EDGES.
4. CAGE REINFORCING BARS TO BE TACK WELDED OR TIED.
5. PIPE AND LIFTING ANCHOR POCKETS TO BE GROUTED WITH MSD APPROVED NON-SHRINK GROUT.
6. DRAWING TO BE USED IN CONJUNCTION WITH MSD STANDARD DRAWING DH-03-01.
7. PREFORMED HOLE SIZES ARE OUTSIDE DIAMETER OF PIPE + 3"-4".

INFRASTRUCTURE PRECAST, INC.

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

MSD 12"-24" "U" HEADWALL
 (FOR CIRCULAR OR NON-CIRCULAR PIPE)

DRAWING NO.: ET-MSD-403 DATE: 07-31-24
 REVIEWED BY: J.H. ROSS, PE DRAWN BY: N. RICHARDS
 WEB: WWW.ICASTINC.COM SCALE: NTS



Job Name: 25-2511B - Blue Sky Sec 1 (Storm)
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: 100

Tech: J. Horsley - F

11/17/2025 5:05:51 PM

PC: A. Chambers

Structure ID: X1

P1 HWBW24-CUST

24" - HW BW Custom F/F

**CUSTOM
CAD DRAWING
REQUIRED**

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

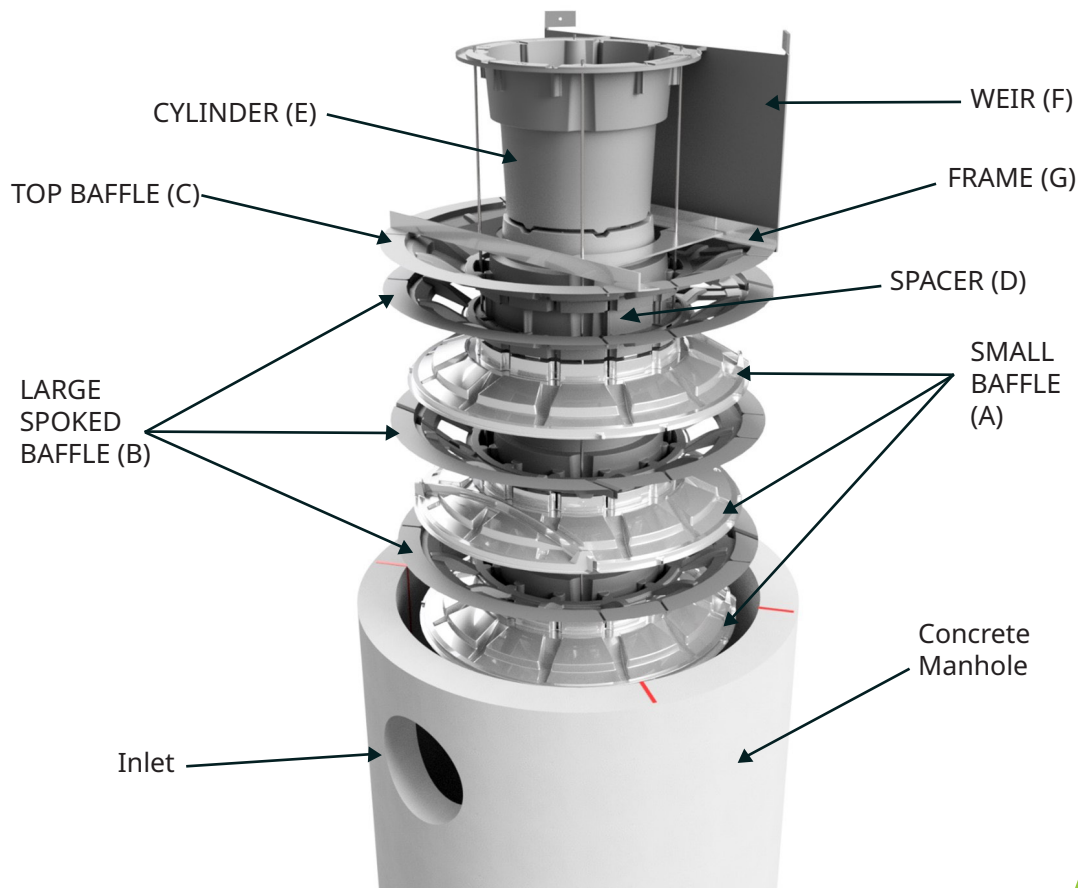
Section 1: Internal Components, Hardware & Tools

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



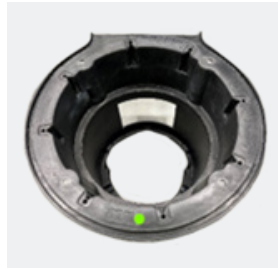
LARGE SPOKED BAFFLE (B)
Qty: 3



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

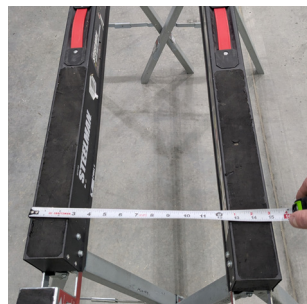


Figure 2



Figure 3



Figure 4



Figure 5

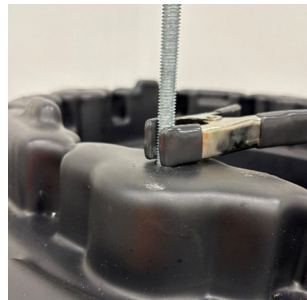


Figure 6



- 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**.
- 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.

- 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.
- 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.

- 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**.
- 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**.*

- 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

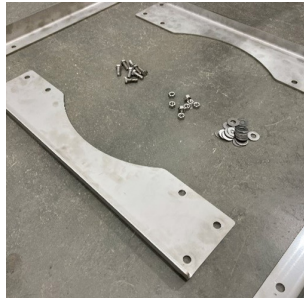


Figure 12

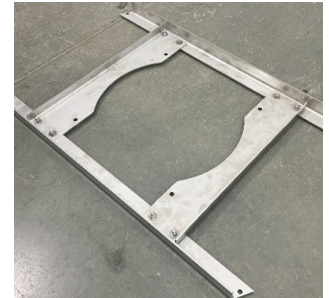


Figure 13

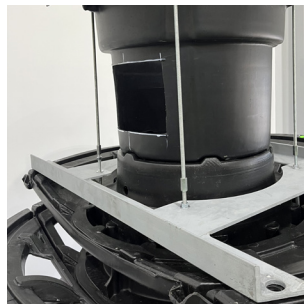


Figure 14



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

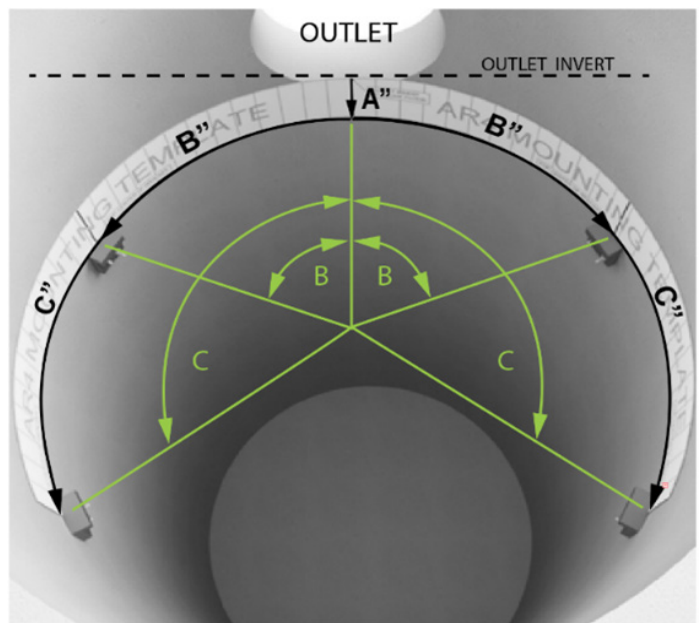


Table 1: Angular Measurements

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

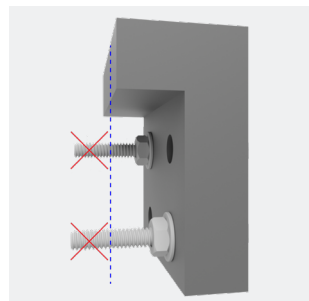
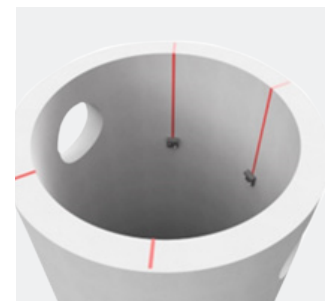


Figure 26



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)
- 5/16" (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
 - 3/16" (4.76 mm) Multi-Purpose Drill Bit
 - Hammer
 - 7/16" (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



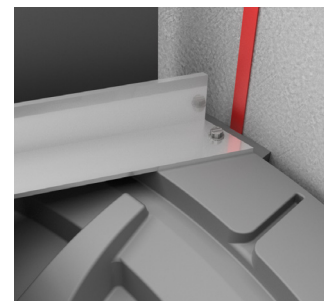
Figure 32



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

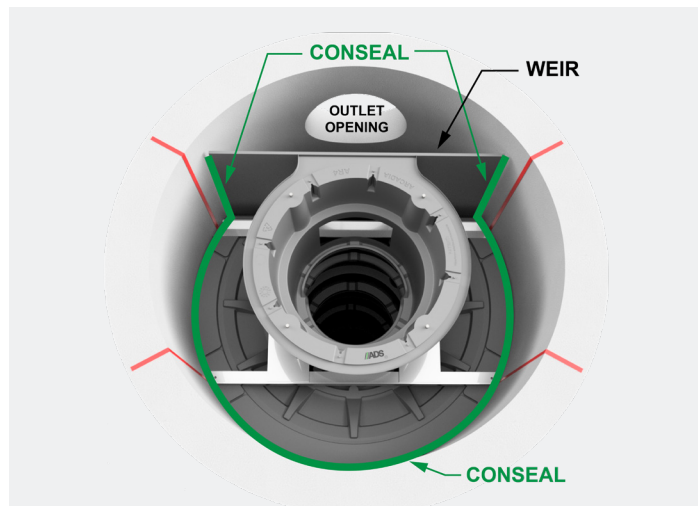


Figure 36

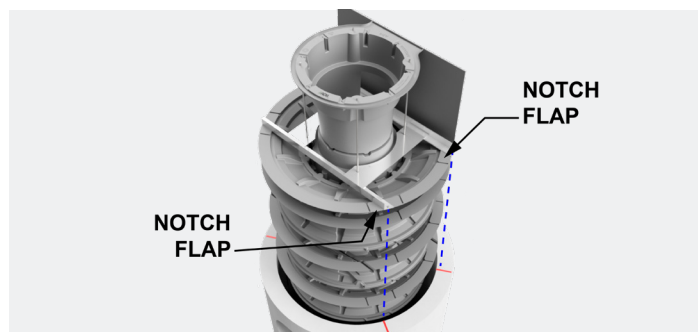


Figure 37

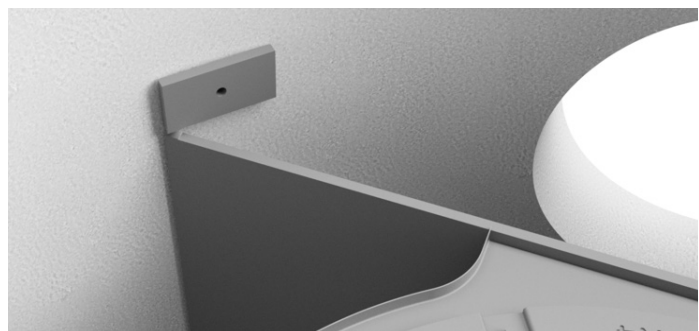
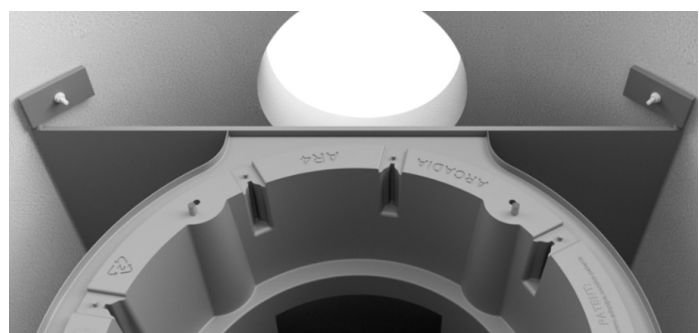


Figure 38



Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)
 Job Location: Indiana, KY
 Contractor: Louisville Paving and Construction

Plant: 100

Tech: J. Horsley - A

5/12/2026 1:01:36 PM

PC: J. Jarvis



Structure ID: 80

P2 BX024030-08LD08-15X27

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

- P3) 15" x 27" - P.I.P. - BY OTHERS - 8"
- P2) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"
- P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht F/n - 38"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 1) 15" x 27" - Conseal CS-102 1.00"
- 1) Hole - 20
- 2) Hole - 4

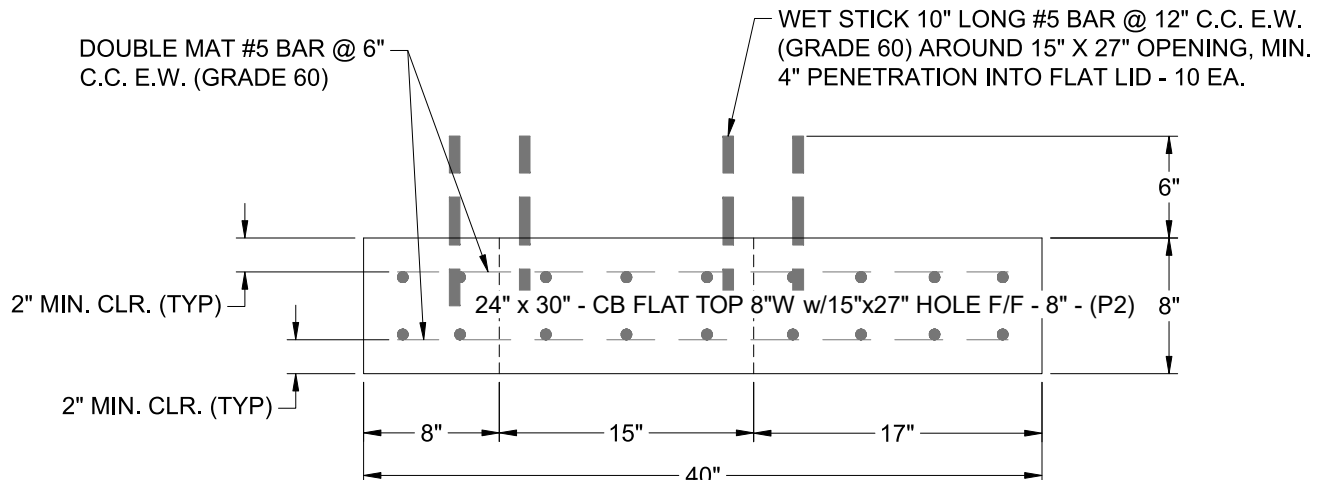
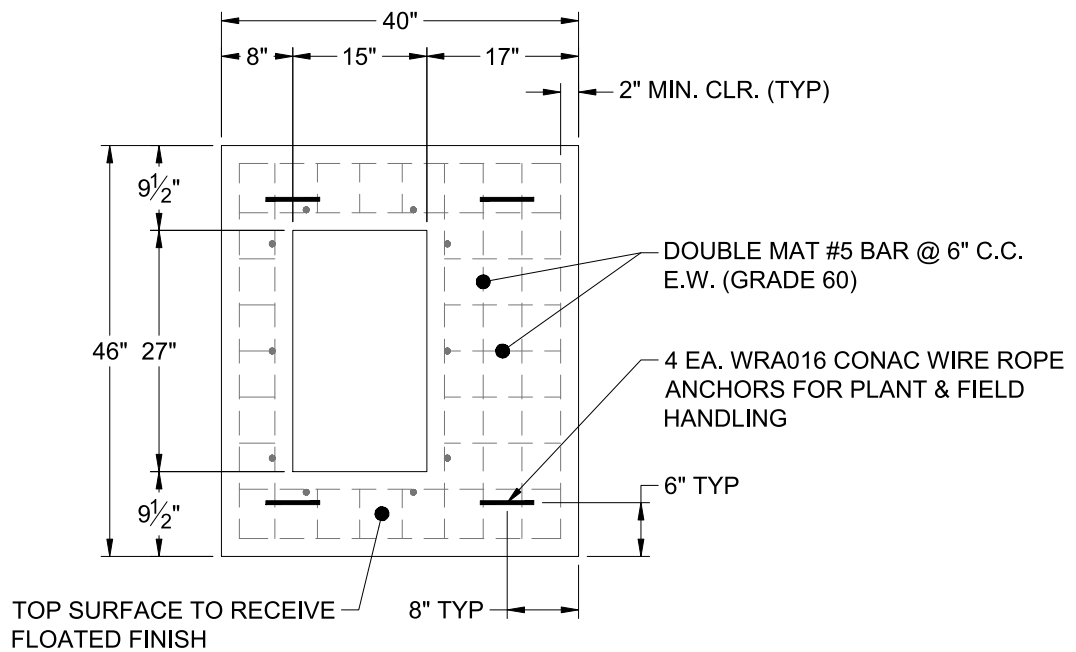
0 lb
 963 lb
 4579 lb
 0 lb
 0 lb
 0 lb
 0 lb

 5542 lb

Structure Total: 5542 lb

Structure Notes:

- **KYTC STATE PROJECT**
- 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS
- 2. CONCRETE: 4,000 PSI AT 28 DAYS
- 3. REINFORCEMENT: DOUBLE MAT #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
- 4. HOE KY-230G FRAME & GRATE SUPPLIED BY OTHERS
- 5. STUB #5 BAR SPACED @ 12" C.C. (GRADE 60) 6" OUT TOP OF FLAT LID AROUND 15" X 27" OPENING FOR FIELD POUR TIE-IN
- 6. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
- 7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

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

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)
 Job Location: Indiana, KY
 Contractor: Louisville Paving and Construction

Plant: 100

5/12/2026 1:01:37 PM

Tech: J. Horsley - A

PC: J. Jarvis



Structure ID: 81

P3 BX024030-08LD08-15X27

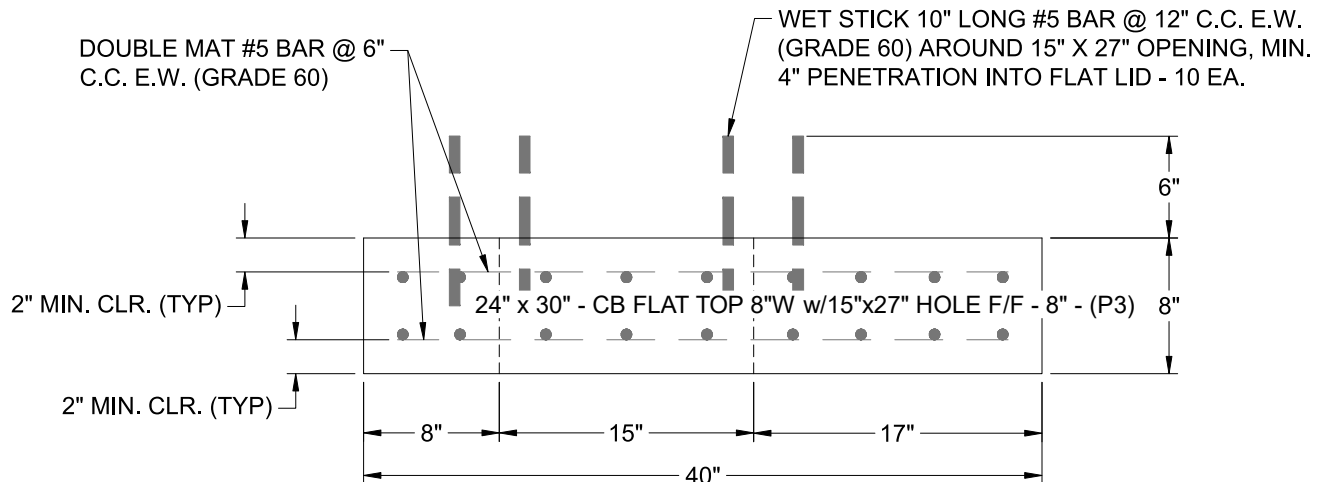
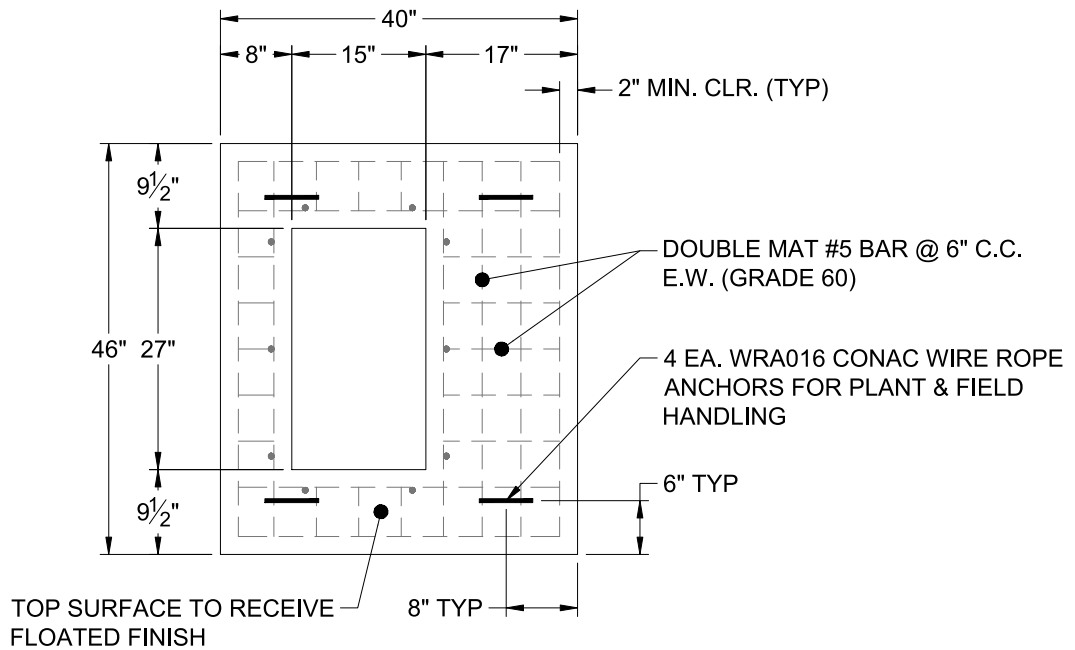
CB FLAT TOP 8"W w/15"x27" HOLE F/F

- P4) 15" x 27" - P.I.P. - BY OTHERS - 8"
- P3) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"
- P2) 24" x 30" - BOX RISER 8inW F/G - 36"
- P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht T/n - 44"
- 2) 24" x 30" - Conseal CS-102 1.00"
- 1) 15" x 27" - Conseal CS-102 1.00"
- 3) Hole - 20
- 1) Hole - 18
- 2) Hole - 4

0 lb
963 lb
3366 lb
4540 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 8870 lb

- Structure Notes:**
- **KYTC STATE PROJECT**
 - 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS
 - 2. CONCRETE: 4,000 PSI AT 28 DAYS
 - 3. REINFORCEMENT: DOUBLE MAT #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 - 4. HOE KY-230G FRAME & GRATE SUPPLIED BY OTHERS
 - 5. STUB #5 BAR SPACED @ 12" C.C. (GRADE 60) 6" OUT TOP OF FLAT LID AROUND 15" X 27" OPENING FOR FIELD POUR TIE-IN
 - 6. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
 - 7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 8"	Height (Ext): 8"	Weight (Net): 963 lb Volume (Net): 0.25cu.yd
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Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)
 Job Location: Indiana, KY
 Contractor: Louisville Paving and Construction

Plant: 100

Tech: J. Horsley - A

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PC: J. Jarvis



Structure ID: 78

P2 BX024030-08LD08-15X27

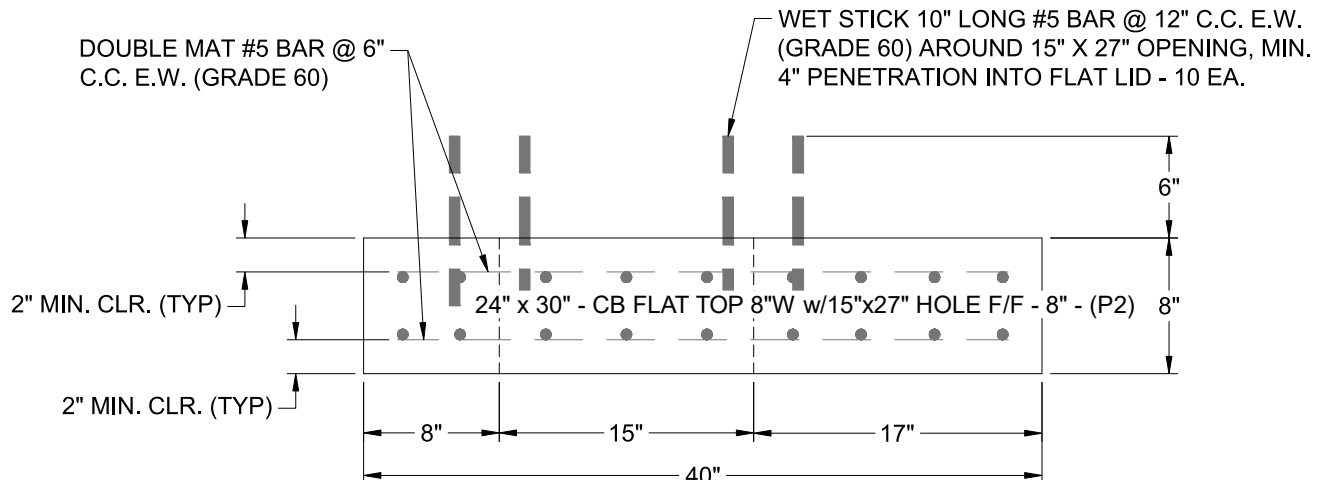
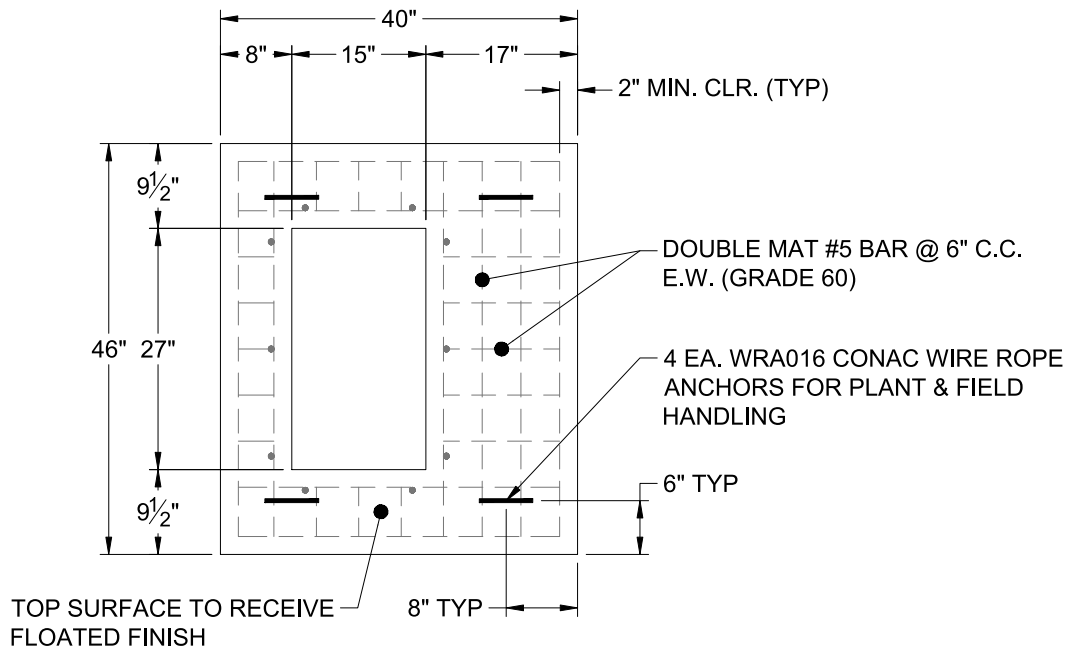
CB FLAT TOP 8"W w/15"x27" HOLE F/F

- P3) 15" x 27" - P.I.P. - BY OTHERS - 8"
- P2) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"
- P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht F/n - 38"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 1) 15" x 27" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 18
- 2) Hole - 4

0 lb
 963 lb
 4408 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 5371 lb

Structure Notes:

- **KYTC STATE PROJECT**
- 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS
- 2. CONCRETE: 4,000 PSI AT 28 DAYS
- 3. REINFORCEMENT: DOUBLE MAT #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
- 4. HOE KY-230G FRAME & GRATE SUPPLIED BY OTHERS
- 5. STUB #5 BAR SPACED @ 12" C.C. (GRADE 60) 6" OUT TOP OF FLAT LID AROUND 15" X 27" OPENING FOR FIELD POUR TIE-IN
- 6. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
- 7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

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

Job Name: 26-2231 - Pace Vault
 Job Location: Louisville, KY
 Contractor: Pace Contracting, LLC

Plant: 100
 5/20/2026 12:33:10 PM

Tech: Jared - F
 PC: J. Jarvis



Structure ID: QL1

P2 BX4872-06R48

BOX RISER 6inW F/F

- P4) 30" x 30" - HATCH (CAST FLUSH) - 3"
- P3) 48" x 72" - CB FLAT TOP 6"W w/30"x30" HATCH F/F - 8"
- P2) 48" x 72" - BOX RISER 6inW F/F - 48"
- P1) 48" x 72" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
- 1) HATCH (Alum.) - HALLIDAY W1S 30"x30"
- 2) 48" x 72" - Conseal CS-102 1.00" (Double)
- 1) 30" x 30" - Conseal CS-102 1.00" (Double)
- 1) Hole - 0

100 lb
 2779 lb
 6380 lb
 0 lb
 62 lb
 0 lb
 0 lb
 0 lb

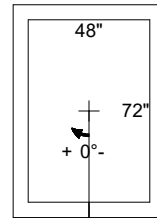
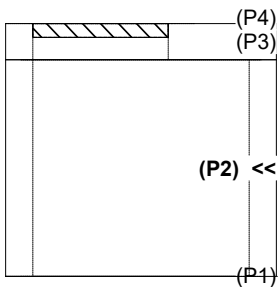
 Structure Total: 9321 lb

Structure Notes:
 1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 30"x30") - TO BE CAST INTO TOP SLAB.
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 4.67' Rim to Invert: 4.67' Slack: 0.04" Sump: 0" Step Position:

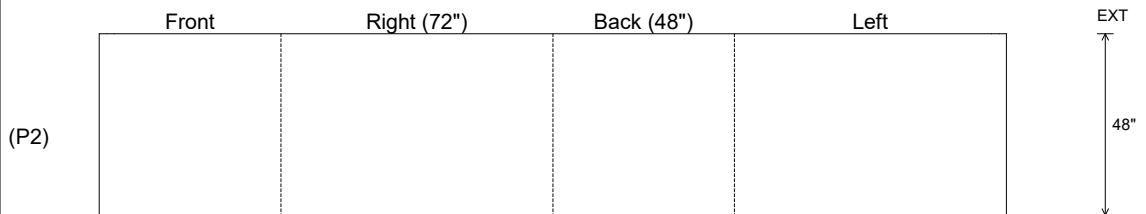
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	0'	0°	30"	0" No Hole	0.01"	Hole 0	0"	0"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



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

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 6"
 Floor Height: 0"

Height (Int): 48"
 Height (Ext): 48"

Weight (Net): 6380 lb
 Volume (Net): 1.63cu.yd