

Job Name: 25-2073 - Alcoa Outfall

Job Location: Newburgh, IN

Contractor: Bowen Engineering Corporation

Plant: 100

6/16/2026 2:36:25 PM

Tech: J. Horsley

PC: A. Chambers



Structure ID: MH 3

P1 BX084084-08RVF

BOX RISER 8inW, Variable Ht FB T/F

P5) 30" x 30" - CASTING HEIGHT - 4"

P4) 30" x 30" - GRADE RING F/F - 3"

P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8"

P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 61"

P1) 84" x 84" - BOX RISER 8inW, Variable Ht FB T/F - 96"

1) CASTING - HOE 468 F/G

2) 84" x 84" - Conseal CS-102 1.00"

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

2) DOGHOUSE - 48"x48"

1) SQ. Hole n/n - 68"x42"

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

0 lb

218 lb

6109 lb

15069 lb

19029 lb

489 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 40914 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS

2. CONCRETE: 4,500 PSI AT 28 DAYS

3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

- ADDITIONAL REBAR REQUIRED AROUND OPENING FOR INVERT 3

4. STEPS AT 90 DEGREES

5. HOE 468 FRAME & GRATE SUPPLIED BY ICAST

6. LIFTERS: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 0° & 180° WALLS, 24" FROM TOP OF WALLS

Rim: 396.08'

Rim to Invert: 14.02'

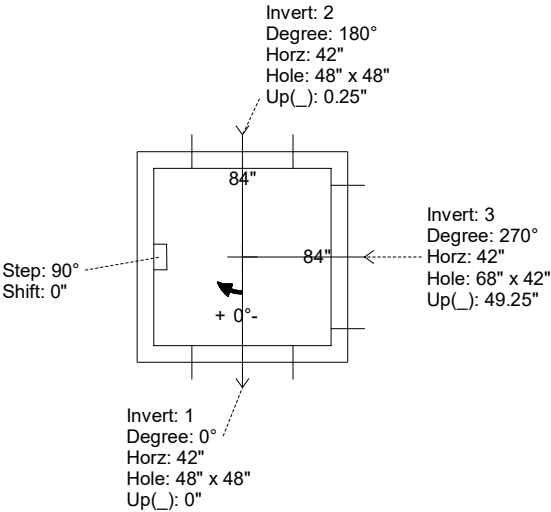
Slack: 0.24"

Sump: 4"

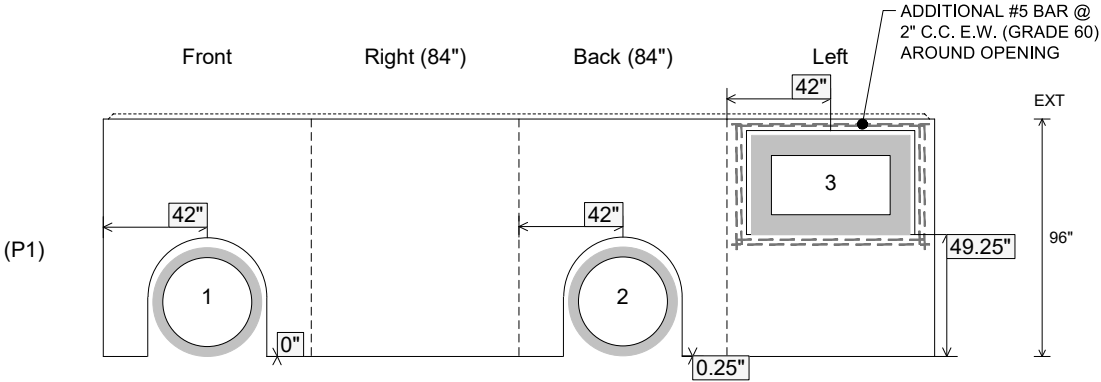
Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	382.06'	0°	50"	36" RCP B WALL	44"	DOGHOUSE 48"x48"	48" x 48"	48"	0"	0"
Invert 2	382.08'	180°	50"	36" RCP B WALL	44"	DOGHOUSE 48"x48"	48" x 48"	48"	0.25"	0"
Invert 3	386.5'	270°	50"	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	SQ. Hole 68"x42"	68" x 42"	68"	49.25"	0"
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: Flat

Wall Thickness: 8"

Floor Height: 0"

Height (Int): 96"

Height (Ext): 96"

Weight (Net): 19029 lb

Volume (Net): 4.86cu.yd