

Job Name: 26-2212 - CDTI Building 1
Job Location: Charlestown, IN
Contractor: Dan Cristiani Excavating Co. Inc.

Plant: Beaver Dam
8/18/2026 1:32:55 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 303 ST-DS

P1 MH108BAVF

MH BASE Custom Ht

- P3) 24" - CASTING HEIGHT - 7"
P2) 108" - MH FLAT TOP w/24" ECC Hole - 17"
P1) 108" - MH BASE Custom Ht - 60"
1) 108" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 52
2) Hole - 24
5) MH Step ML-10-TDS-NCR - 10"

- 0 lb
10472 lb
27120 lb
0 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 37592 lb
- Structure Notes:**
INDOT STATE PROJECT
1. (GREEN HAT MH-ST-F PROVIDED BY OTHERS)
2. INDOT MH TYPE N / ASTM C478 SPEC'S.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

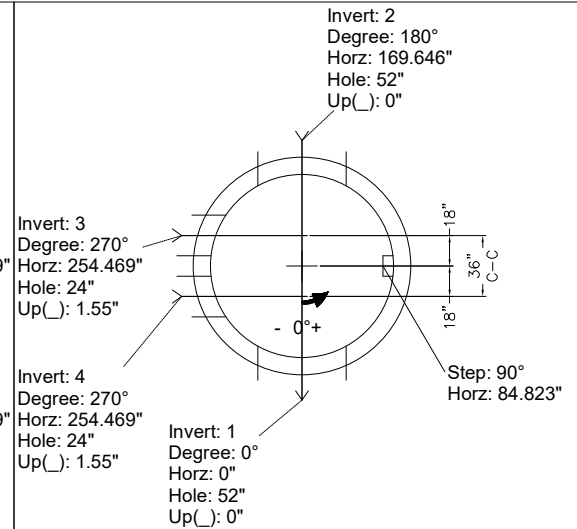
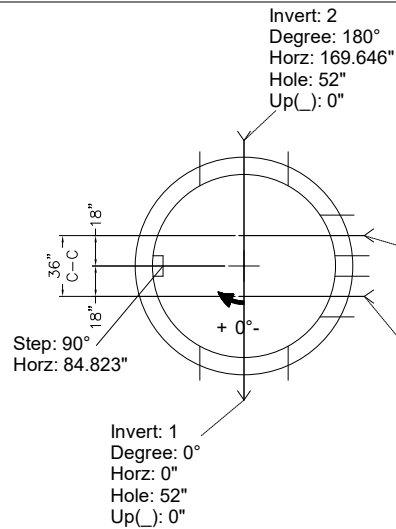
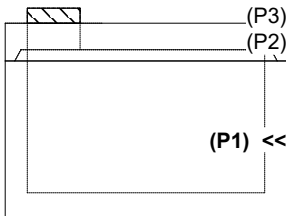
4 EA. 8CA18 CONAC A-ANCHORS FOR
PLANT & FIELD HANDLING - INSTALLED
18" FROM THE TOP OF THE WALLS

Rim: 587.76' Rim to Invert: 6.76' Slack: 0.27" Sump: 3.15" Step Position: 90°

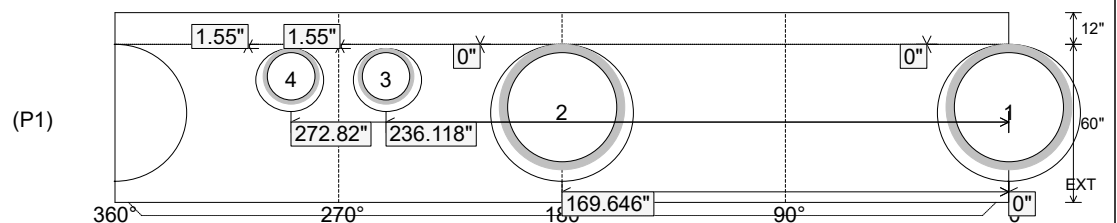
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	581'	0°	0"	42" HDPE	47.7"	Hole 52	52"	54.253"	0"	0"
Invert 2	581'	180°	201.062"	42" HDPE	47.7"	Hole 52	52"	54.253"	0"	0"
Invert 3	581'	270°	283.347"	18" HDPE	21.2"	Hole 24	24"	25.795"	1.55"	-18"
Invert 4	581'	270°	319.839"	18" HDPE	21.2"	Hole 24	24"	25.795"	1.55"	18"
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: 10"
Floor Height: 12"

Height (Int): 60"
Height (Ext): 72"

Weight (Net): 27120 lb
Volume (Net): 6.93cu.yd

Job Name: 26-2212 - CDTI Building 1
Job Location: Charlestown, IN
Contractor: Dan Cristiani Excavating Co. Inc.

Plant: Beaver Dam
8/19/2026 8:49:57 AM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 303 ST-DS

P2 MH108LD17ECC

MH FLAT TOP w/24" ECC Hole

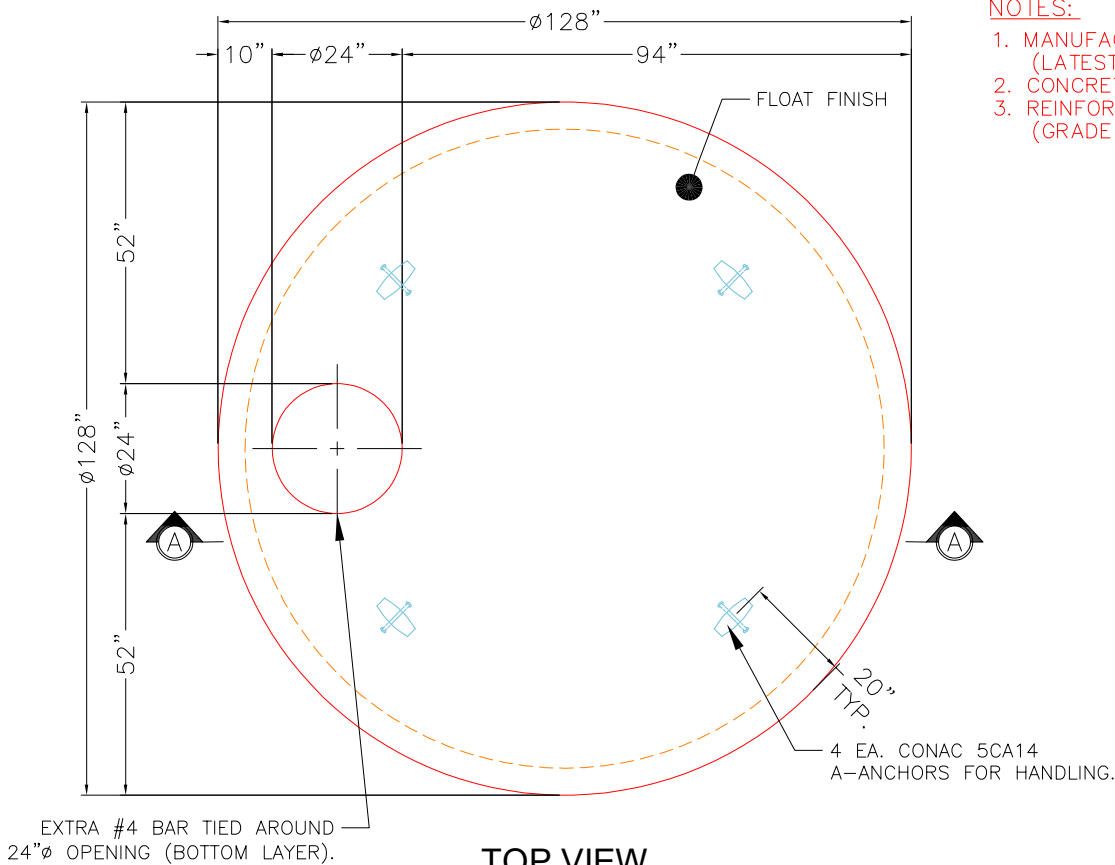
- P3) 24" - CASTING HEIGHT - 7"
P2) 108" - MH FLAT TOP w/24" ECC Hole - 17"
P1) 108" - MH BASE Custom Ht - 60"
1) 108" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 52
2) Hole - 24
5) MH Step ML-10-TDS-NCR - 10"

0 lb
10472 lb
27120 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 37592 lb

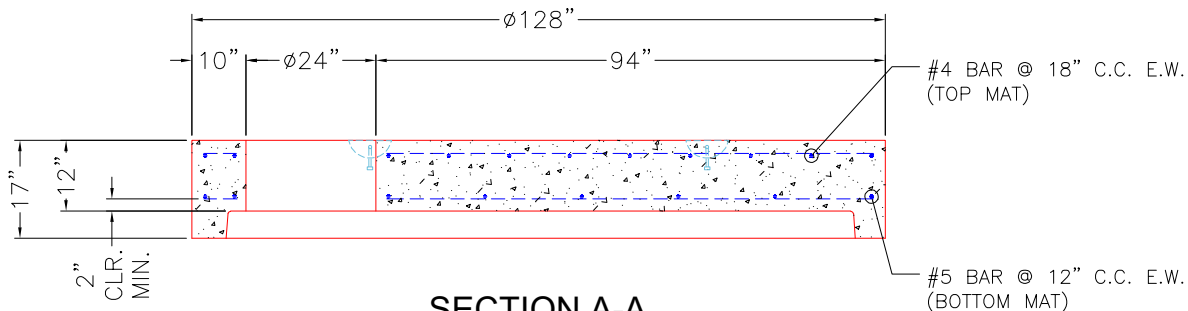
- Structure Notes:**
INDOT STATE PROJECT
1. (GREEN HAT MH-ST-F PROVIDED BY OTHERS)
2. INDOT MH TYPE N / ASTM C478 SPEC'S.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

NOTES:

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



TOP VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 10"

Height (Ext): 17"

Weight (Net): 10472 lb
Volume (Net): 2.68cu.yd

Job Name: 26-3220 844652 Montessori School of Waukesha
Job Location: Waukesha, WI
Contractor: Contech Engineering Solutions

Plant: Beaver Dam
8/25/2026 1:37:49 PM

Tech: S. Felletter
PC: C. Goff



Structure ID: Riser Set 1

P2 MH036LD10-30ECC

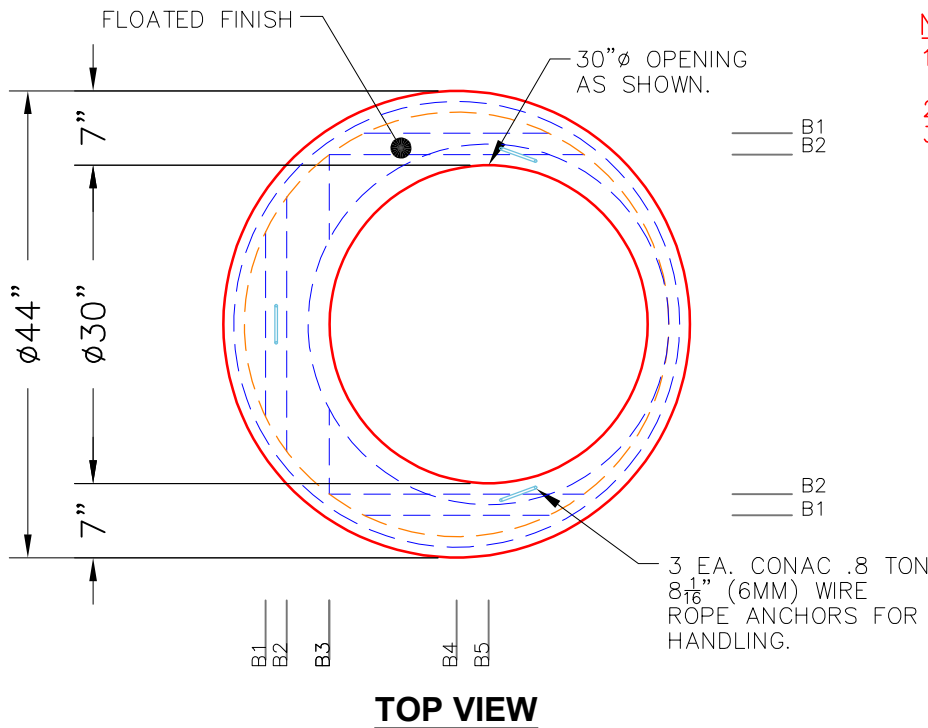
MH FLAT LID w/30in ECC Hole F/G

- P3) 30" - CASTING HEIGHT - 4"
P2) 36" - MH FLAT LID w/30in ECC Hole F/G - 10"
P1) 36" - MH RISER Custom Ht T/F - 33"
1) CVSTENCILING
1) 36" - Conseal CS-102 1.00"

0 lb
683 lb
1392 lb
0 lb
0 lb

Structure Total: 2075 lb

Structure Notes: 1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. 4" CASTING BY OTHERS.
4. CONTECH'S LOGO TO BE STENCILED ONTO 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)



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).

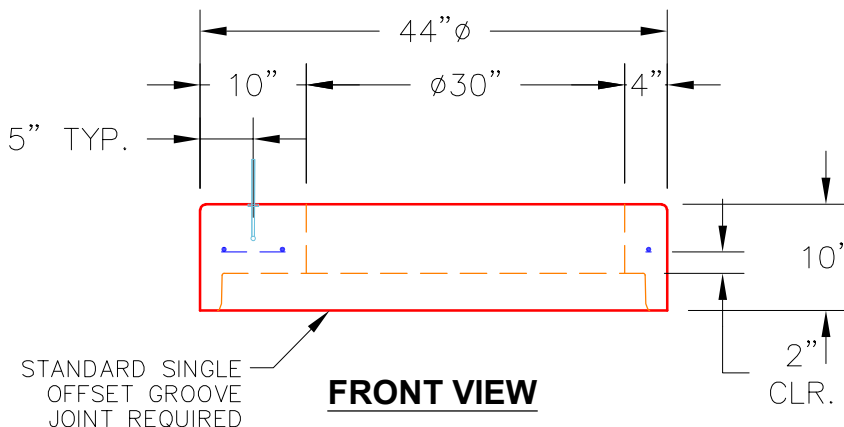
REBAR TAKEOFF SUMMARY

BAR	SIZE	LENGTH	QTY
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B1	#5	17 in (1'-5")	3 pcs
B2	#5	24 in (2'-0")	3 pcs
B3	#5	8 in (0'-8")	2 pcs
B4	#5	ø42 in (3'-6")	1 pcs
B5	#5	ø34 in (2'-10")	1 pcs

Total Pieces: 10 Pcs
Total Footage: 17.92 LF
Total Weight: 18.69 lbs (0.010 Tons)

TYP SPA = #5 BARS AT 6" C.C.E.W.
SPACING BETWEEN B1-B5 & B1-B2
2" O.C



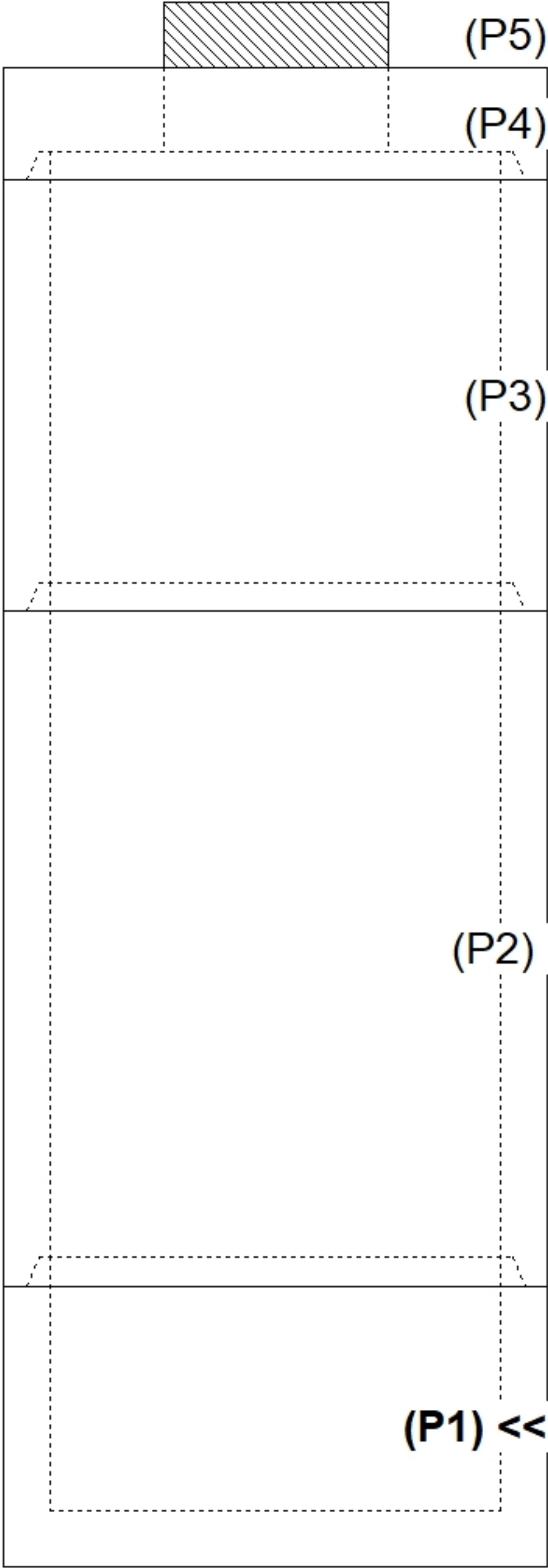
Coating (Int):
Coating (Ext):

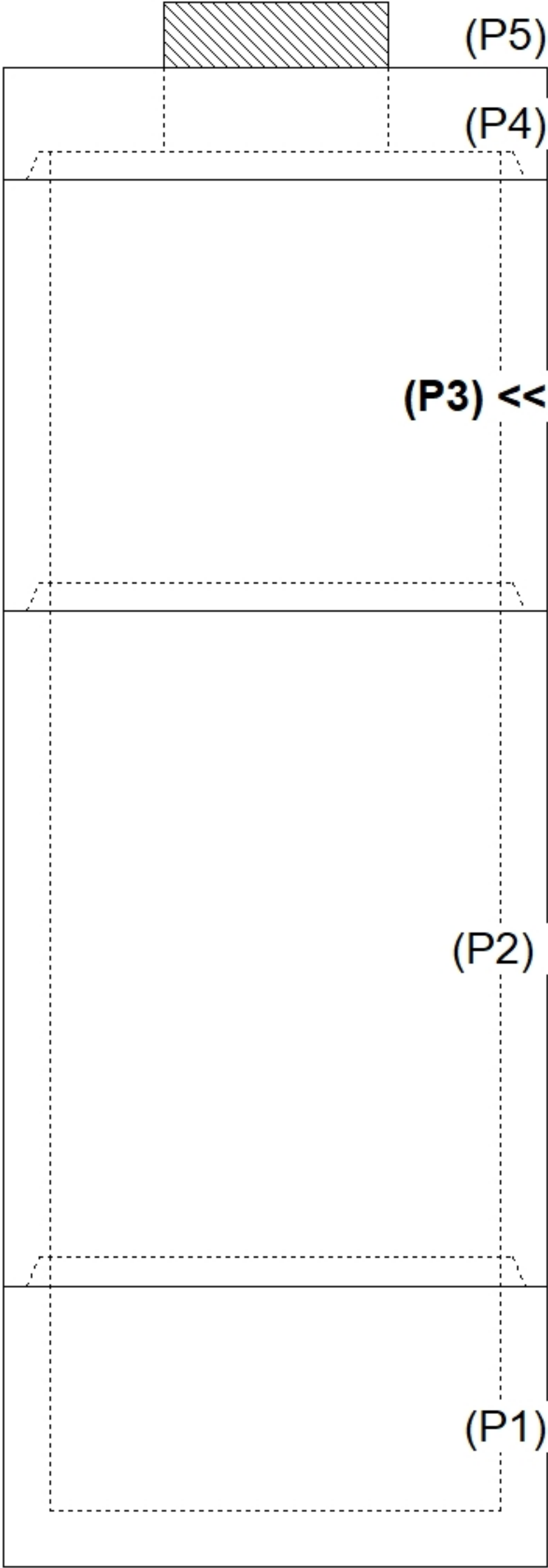
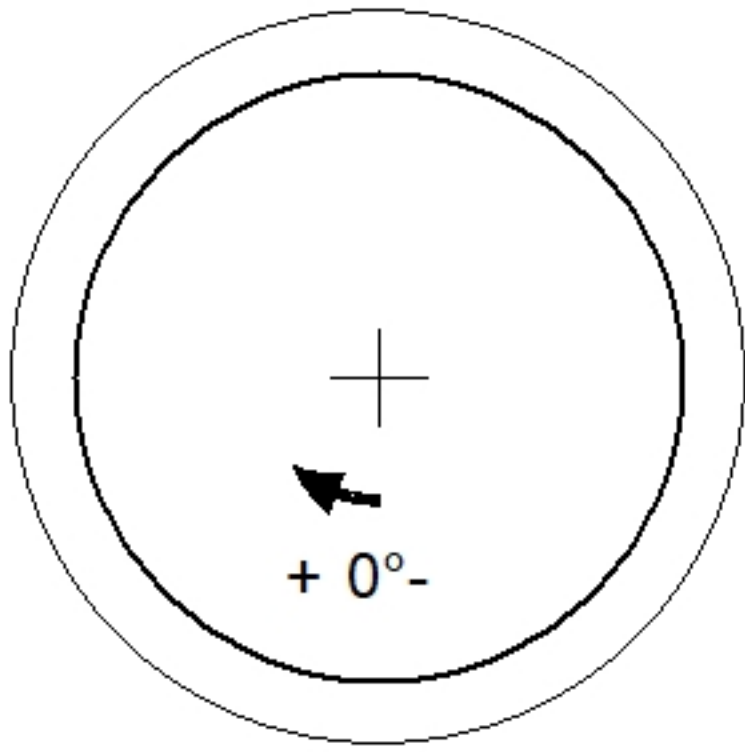
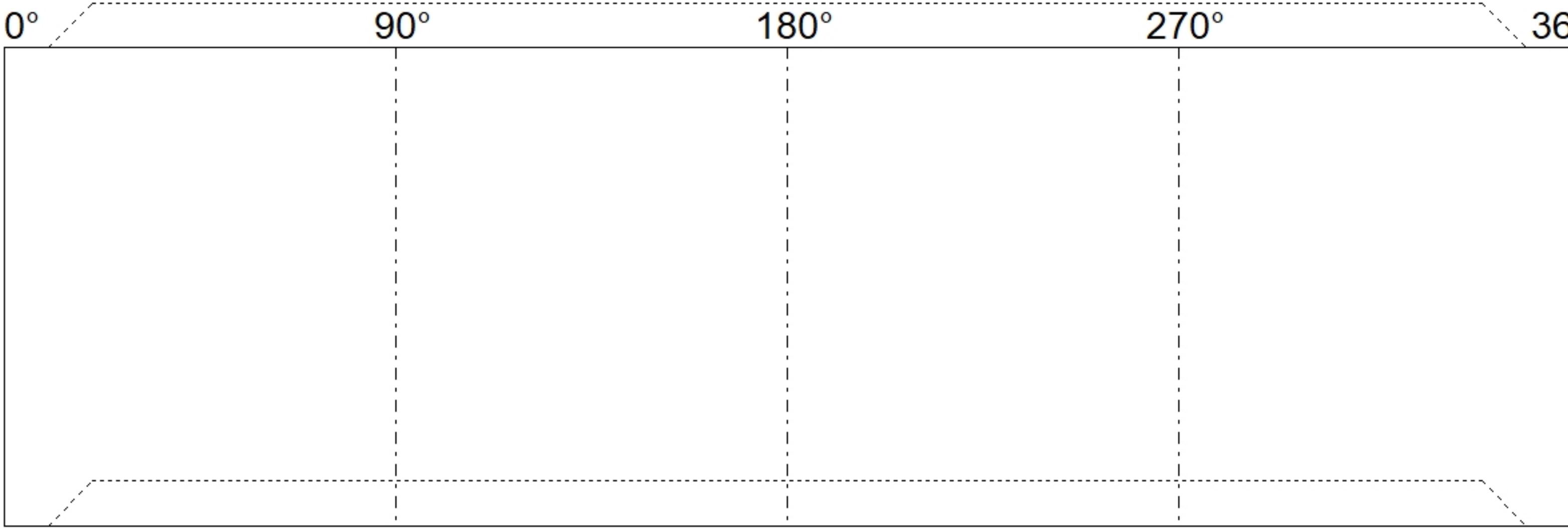
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 4"

Height (Ext): 10"

Weight (Net): 683 lb
Volume (Net): 0.17cu.yd

Job Name: 26-3425 ADS Advanced Ready Mix Plant Job Location: Louisville, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 8/26/2026 11:11:14 AM		Tech: S. Felletter PC: M. Sullivan						
Structure ID: WQU													
P1			MH048BA24			MH BASE T/n							
P5) 24" - CASTING HEIGHT - 7" P4) 48" - MH FLAT LID w/24" Center Hole F/G - 12" P3) 48" - MH RISER Custom Ht T/G - 46" P2) 48" - MH RISER SPECIAL T/G - 72" P1) 48" - MH BASE T/n - 24" 1) ASSEMBLY REQUIRED 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 Storm 3) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) Hole - 16						0 lb 1580 lb 3213 lb 4828 lb 3007 lb 0 lb 0 lb 0 lb 271 lb 0 lb 0 lb 0 lb ----- 12899 lb		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: 455.88' Rim to Invert: 6.73' Slack: 0.76" Sump: 81" 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)  UPSIDE-DOWN VIEW (int. dimenions) 													
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): 3007 lb Volume (Net): 0.77cu.yd			

Job Name: 26-3425 ADS Advanced Ready Mix Plant Job Location: Louisville, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 8/26/2026 11:12:06 AM		Tech: S. Felletter PC: M. Sullivan						
Structure ID: WQU													
P3		MH048RSVF		MH RISER Custom Ht T/G									
P5) 24" - CASTING HEIGHT - 7" P4) 48" - MH FLAT LID w/24" Center Hole F/G - 12" P3) 48" - MH RISER Custom Ht T/G - 46" P2) 48" - MH RISER SPECIAL T/G - 72" P1) 48" - MH BASE T/n - 24" 1) ASSEMBLY REQUIRED 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 Storm 3) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) Hole - 16						0 lb 1580 lb 3213 lb 4828 lb 3007 lb 0 lb 0 lb 0 lb 271 lb 0 lb 0 lb 0 lb ----- 12899 lb		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: 455.88' Rim to Invert: 6.73' Slack: 0.76" Sump: 81" 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)													
													
INSIDE WALL DIMENSIONS													
				0°90°180°270°360° EXT 46"									
Coating (Int): Coating (Ext):				Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 5" Floor Height: 0"		Height (Int): 46" Height (Ext): 46"		Weight (Net): 3213 lb Volume (Net): 0.82cu.yd			

Job Name: 26-3354 ADS Nottingham Flats

Job Location: Florence, KY

Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

8/26/2026 10:58:10 AM

Tech: S. Felletter

PC: M. Sullivan



Structure ID: S227

P2 MH048RS36S

MH RISER NO STEPS T/G

P7) 24" - CASTING HEIGHT - 7"

P6) 24" - GRADE RING F/F - 4"

P5) 48" - MH FLAT LID w/24" Center Hole F/G - 12"

P4) 48" - MH RISER NO STEPS T/G - 72"

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

P2) 48" - MH RISER NO STEPS T/G - 36"

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

1) ASSEMBLY REQUIRED

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 Storm

4) 48" - Conseal CS-102 1.00"

2) 24" - Conseal CS-102 1.00"

2) Hole - 30

0 lb

270 lb

1580 lb

5030 lb

4398 lb

2515 lb

2588 lb

0 lb

0 lb

0 lb

271 lb

0 lb

0 lb

0 lb

Structure Total: 16651 lb

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.

5. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY

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: 925.03'

Rim to Invert: 11.72'

Slack: 0.64"

Sump: 81"

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										

(P7)

(P6)

(P5)

(P4)

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

+ 0°-

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

EXT

36"

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: 26-3354 ADS Nottingham Flats

Job Location: Florence, KY

Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

8/26/2026 10:58:11 AM

Tech: S. Felletter

PC: M. Sullivan

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: S227

P3MH048RS72SMH RISER SPECIAL T/G

P7) 24" - CASTING HEIGHT - 7"

P6) 24" - GRADE RING F/F - 4"

P5) 48" - MH FLAT LID w/24" Center Hole F/G - 12"

P4) 48" - MH RISER NO STEPS T/G - 72"

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

P2) 48" - MH RISER NO STEPS T/G - 36"

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

1) ASSEMBLY REQUIRED

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 Storm

4) 48" - Conseal CS-102 1.00"

2) 24" - Conseal CS-102 1.00"

2) Hole - 30

0 lb

270 lb

1580 lb

5030 lb

4398 lb

2515 lb

2588 lb

0 lb

0 lb

0 lb

271 lb

0 lb

0 lb

0 lb

Structure Total: 16651 lb

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.

5. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY

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: 925.03'

Rim to Invert: 11.72'

Slack: 0.64"

Sump: 81"

Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	913.31'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	19.75"	0"
Invert 2	913.31'	187°	94.649"	24" HDPE	27.8"	Hole 30	30"	32.406"	19.75"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P7)

(P6)

(P5)

(P4)

(P3) <<

(P2)

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

Invert: 2

Degree: 187°

Horz: 78.33"

Hole: 30"

Up(): 19.75"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 30"

Up(): 19.75"

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

0"

78.33"

1

2

19.75"

19.75"

EXT

72"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

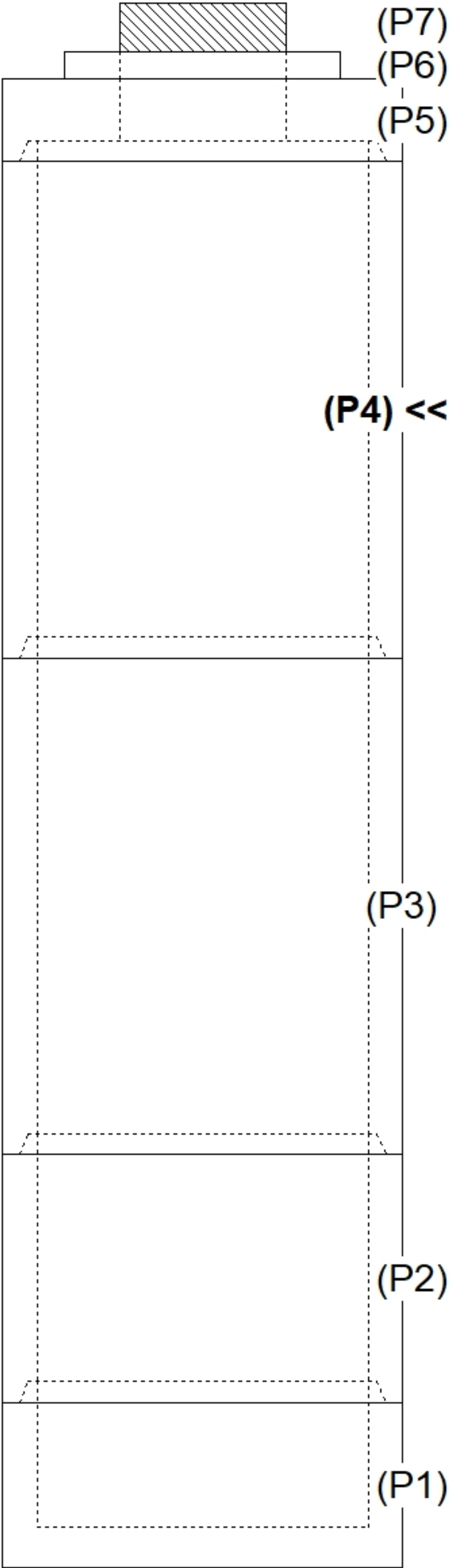
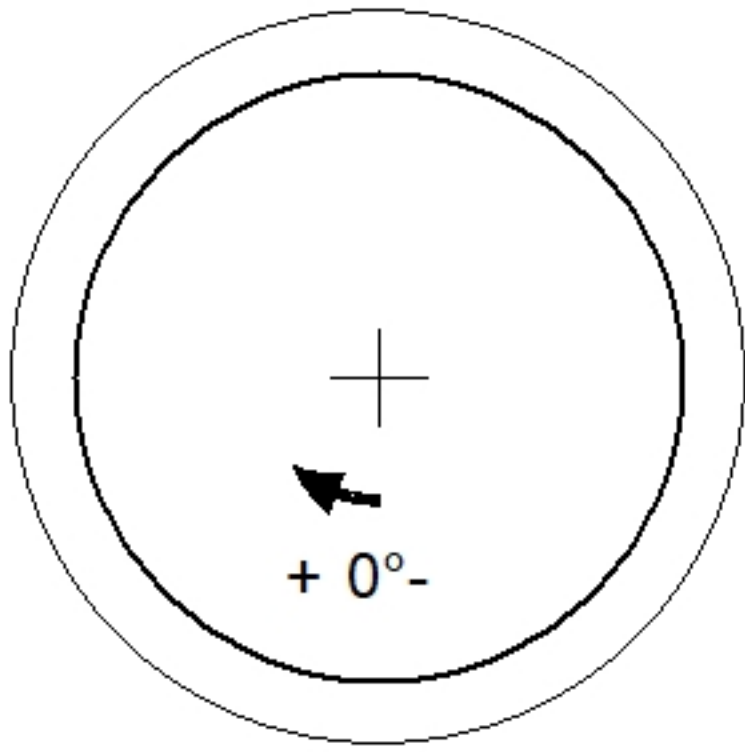
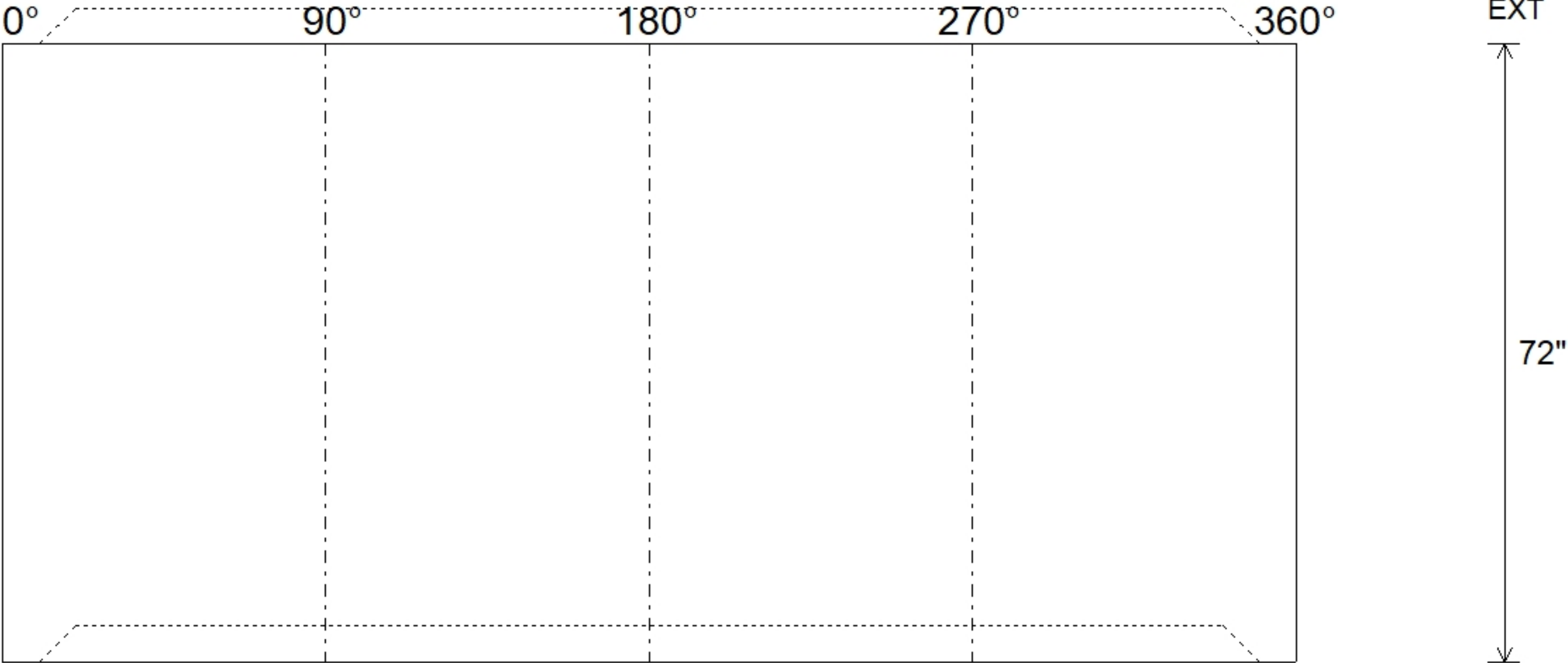
Floor Height: 0"

Height (Int): 72"

Height (Ext): 72"

Weight (Net): 4398 lb

Volume (Net): 1.12cu.yd

Job Name: 26-3354 ADS Nottingham Flats Job Location: Florence, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 8/26/2026 10:58:12 AM		Tech: S. Felletter PC: M. Sullivan						
Structure ID: S227													
P4		MH048RS72S		MH RISER NO STEPS T/G									
P7) 24" - CASTING HEIGHT - 7" P6) 24" - GRADE RING F/F - 4" P5) 48" - MH FLAT LID w/24" Center Hole F/G - 12" P4) 48" - MH RISER NO STEPS T/G - 72" P3) 48" - MH RISER SPECIAL T/G - 72" P2) 48" - MH RISER NO STEPS T/G - 36" P1) 48" - MH BASE T/n - 18" 1) ASSEMBLY REQUIRED 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 Storm 4) 48" - Conseal CS-102 1.00" 2) 24" - Conseal CS-102 1.00" 2) Hole - 30						0 lb 270 lb 1580 lb 5030 lb 4398 lb 2515 lb 2588 lb 0 lb 0 lb 0 lb 271 lb 0 lb 0 lb 0 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-375 F/C "STORM"). 4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE. 5. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY . 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: 925.03' Rim to Invert: 11.72' Slack: 0.64" Sump: 81" Step Position: 0°						Structure Total: 16651 lb							
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			

Job Name: 26-3354 ADS Nottingham Flats

Job Location: Florence, KY

Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

8/26/2026 10:57:31 AM

Tech: S. Felletter

PC: M. Sullivan



Structure ID: S227

P1MH048BA18MH BASE T/n

P7) 24" - CASTING HEIGHT - 7"

P6) 24" - GRADE RING F/F - 4"

P5) 48" - MH FLAT LID w/24" Center Hole F/G - 12"

P4) 48" - MH RISER NO STEPS T/G - 72"

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

P2) 48" - MH RISER NO STEPS T/G - 36"

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

1) ASSEMBLY REQUIRED

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 Storm

4) 48" - Conseal CS-102 1.00"

2) 24" - Conseal CS-102 1.00"

2) Hole - 30

0 lb

270 lb

1580 lb

5030 lb

4398 lb

2515 lb

2588 lb

0 lb

0 lb

0 lb

271 lb

0 lb

0 lb

0 lb

Structure Total: 16651 lb

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.

5. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY

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: 925.03'

Rim to Invert: 11.72'

Slack: 0.64"

Sump: 81"

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										

(P7)

(P6)

(P5)

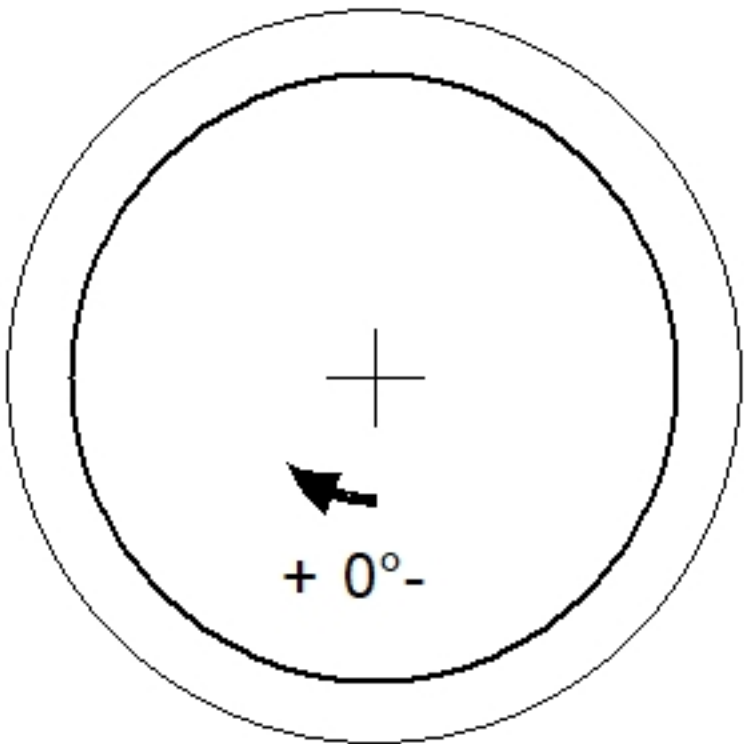
(P4)

(P3)

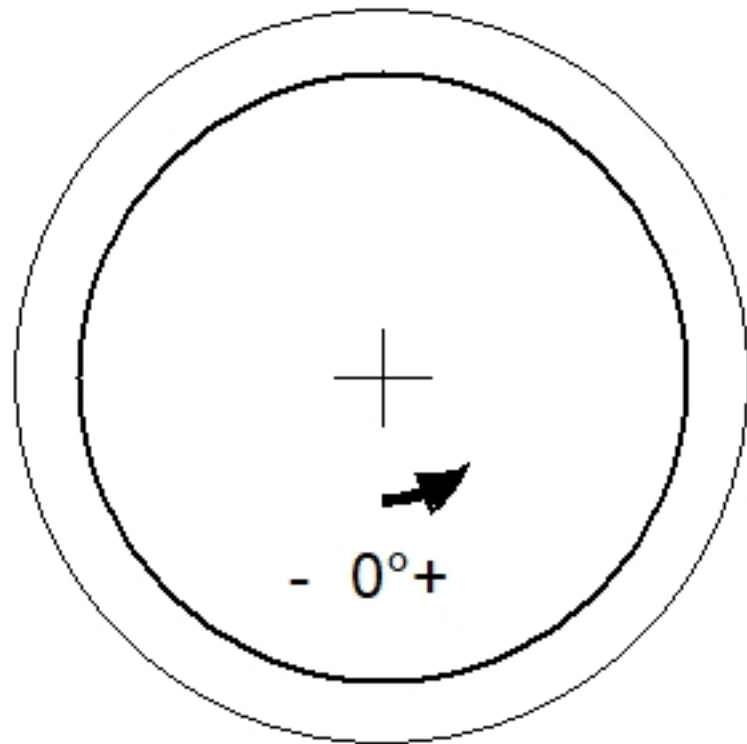
(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

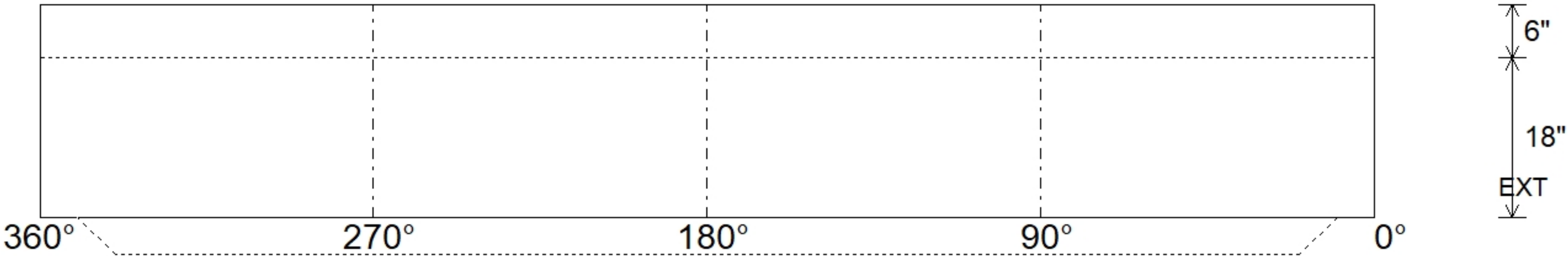


UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS

(P1)



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

Height (Int): 18"

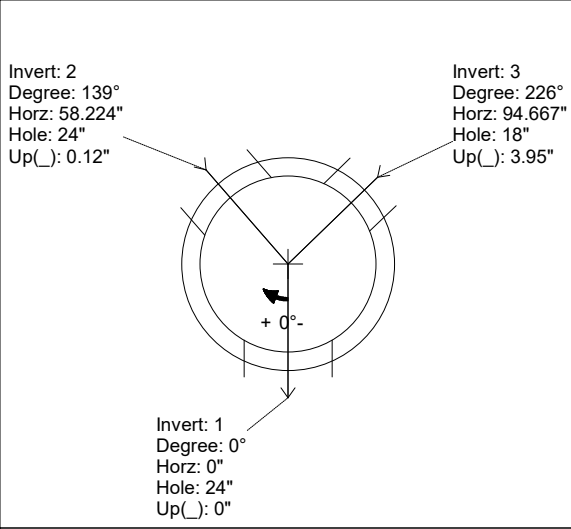
Height (Ext): 24"

Weight (Net): 2588 lb

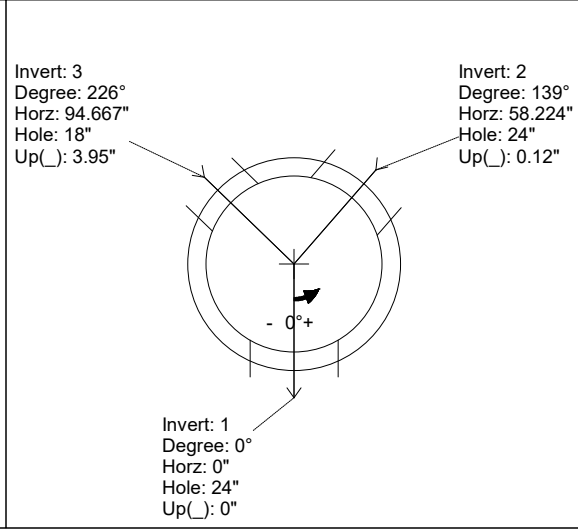
Volume (Net): 0.66cu.yd

Job Name: 25-4490P2 Heartland Meadows Subdivision Job Location: Elizabethtown, KY 40165 Contractor: Kauffeld Brothers Construction					Plant: 100 7/30/2026 10:22:51 AM		Tech: Jared - A PC: Celina Goff			
Structure ID: CB 4-46 (55)										
P1 MH048BAVF			MH BASE Custom Ht							
P3) 24" x 30" - CASTING HEIGHT - 6" P2) 48" - MH FLAT TOP w/24"x30" Hole - 12" P1) 48" - MH BASE Custom Ht - 52" 1) CASTING - HOE 360 L Vane Set (F/G/H) 1) 48" - Conseal CS-102 1.00" 1) 24" x 30" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 18						0 lb 1935 lb 4426 lb 362 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 6723 lb		Structure Notes: 1. HOE 360 FLAT SET PROVIDED BY ICAST. 2. PER ASTM C478 SPECIFICATIONS. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. 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: 873.69' Rim to Invert: 5.74' Slack: 0.48" Sump: 1.6" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	867.95'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133", 5.33"	0"	0"
Invert 2	867.96'	139°	70.354"	18" HDPE	21.2"	Hole 24	24"	25.133"	0.12"	0"
Invert 3	868.25'	226°	114.389"	12" HDPE	14.5"	Hole 18	18"	18.451", 4.243"	3.95"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

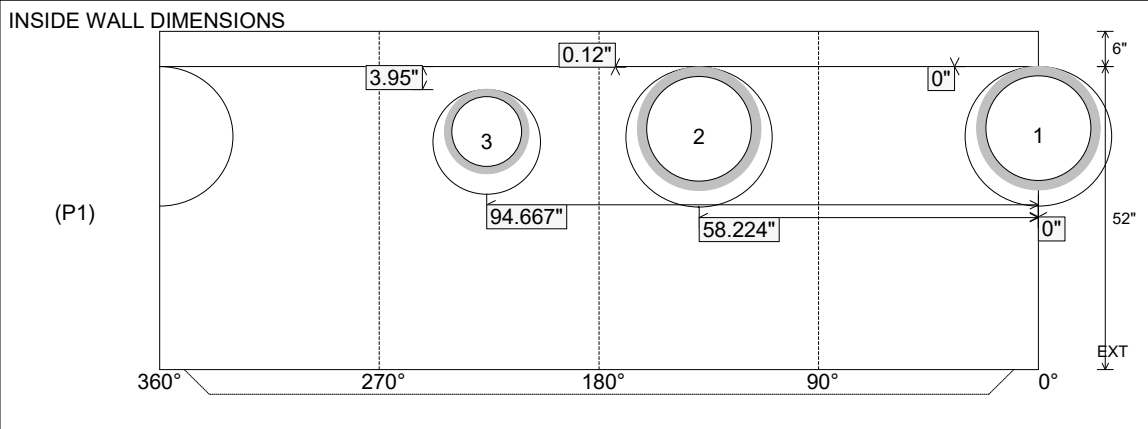
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



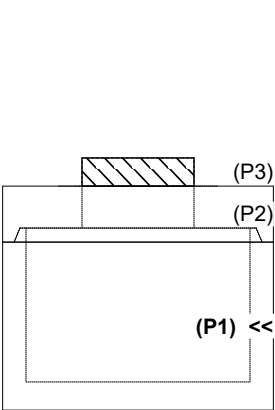
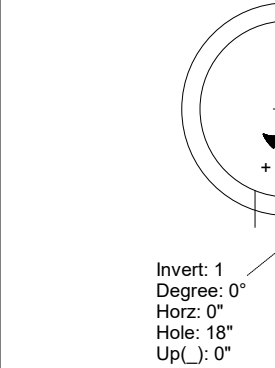
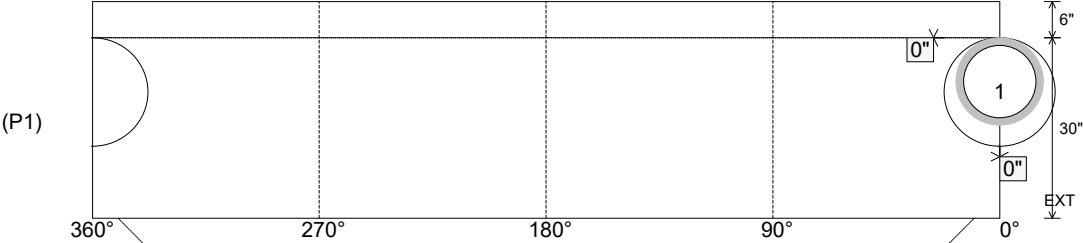
Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 52"
 Height (Ext): 58"

Weight (Net): 4426 lb
 Volume (Net): 1.13cu.yd

Job Name: 25-4490P2 Heartland Meadows Subdivision Job Location: Elizabethtown, KY 40165 Contractor: Kauffeld Brothers Construction					Plant: 100 7/30/2026 10:22:59 AM		Tech: Jared - A PC: Celina Goff				
Structure ID: CB 5-56 (68)											
P1 MH048BA30		MH BASE									
P3) 24" x 30" - CASTING HEIGHT - 6" P2) 48" - MH FLAT TOP w/24"x30" Hole - 12" P1) 48" - MH BASE - 30" 1) CASTING - HOE 360 L Vane Set (F/G/H) 1) 48" - Conseal CS-102 1.00" 1) 24" x 30" - Conseal CS-102 1.00" 1) Hole - 18" Structure Total: 5539 lb						0 lb 1935 lb 3241 lb 362 lb 0 lb 0 lb 0 lb ----- 5539 lb		Structure Notes: . 1. HOE 360 FLAT SET PROVIDED BY ICAST. 2. PER ASTM C478 SPECIFICATIONS. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. NO INVERT CHANNEL. 5. 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.. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 868.08' Rim to Invert: 3.92' Slack: 0.29" Sump: 1.25" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	864.16'	0°	0"	12" HDPE	14.5"	Hole 18	18"	18.451", 12.728"	0"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)						UPSIDE-DOWN VIEW (int. dimenions)					
											
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): 3241 lb Volume (Net): 0.83cu.yd		

Job Name: 25-4490P2 Heartland Meadows Subdivision Job Location: Elizabethtown, KY 40165 Contractor: Kauffeld Brothers Construction					Plant: 100 7/30/2026 10:22:47 AM		Tech: Jared - A PC: Celina Goff			
Structure ID: CB 2-33 (49)										
P1 MH048BAVF			MH BASE Custom Ht							
P3) 24" x 30" - CASTING HEIGHT - 6" P2) 48" - MH FLAT TOP w/24"x30" Hole - 12" P1) 48" - MH BASE Custom Ht - 55" 1) CASTING - HOE 360 L Vane Set (F/G/H) 1) 48" - Conseal CS-102 1.00" 1) 24" x 30" - Conseal CS-102 1.00" 3) Hole - 18"						0 lb 1935 lb 4845 lb 362 lb 0 lb 0 lb 0 lb ----- Structure Total: 7143 lb		Structure Notes: 1. HOE 360 FLAT SET PROVIDED BY ICAST. 2. PER ASTM C478 SPECIFICATIONS. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. 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: 884.38' Rim to Invert: 6.03' Slack: 0.61" Sump: 1.25" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	878.35'	0°	0"	12" HDPE	14.5"	Hole 18	18"	18.451"	0"	0"
Invert 2	878.46'	160°	80.983"	12" HDPE	14.5"	Hole 18	18"	18.451"	1.32"	0"
Invert 3	878.43'	273°	138.178"	12" HDPE	14.5"	Hole 18	18"	18.451"	0.96"	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): 55" Height (Ext): 61"	Weight (Net): 4845 lb Volume (Net): 1.24cu.yd
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Job Name: 25-4490P2 Heartland Meadows Subdivision Job Location: Elizabethtown, KY 40165 Contractor: Kauffeld Brothers Construction					Plant: 100 7/30/2026 10:22:58 AM		Tech: Jared - A PC: Celina Goff			
Structure ID: CB 5-57 (67)										
P1 MH048BAVF		MH BASE Custom Ht								
P3) 24" x 30" - CASTING HEIGHT - 6" P2) 48" - MH FLAT TOP w/24"x30" Hole - 12" P1) 48" - MH BASE Custom Ht - 31" 1) CASTING - HOE 360 L Vane Set (F/G/H) 1) 48" - Conseal CS-102 1.00" 1) 24" x 30" - Conseal CS-102 1.00" 2) Hole - 18"						0 lb 1935 lb 3202 lb 362 lb 0 lb 0 lb 0 lb ----- Structure Total: 5500 lb		Structure Notes: 1. HOE 360 FLAT SET PROVIDED BY ICAST. 2. PER ASTM C478 SPECIFICATIONS. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. NO INVERT CHANNEL. 5. 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.. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.		
Rim: 867.39' Rim to Invert: 4' Slack: 0.25" Sump: 1.25" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	863.39'	0°	0"	12" HDPE	14.5"	Hole 18	18"	18.451"	0"	0"
Invert 2	863.39'	127°	64.28"	12" HDPE	14.5"	Hole 18	18"	18.451", 12.728"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

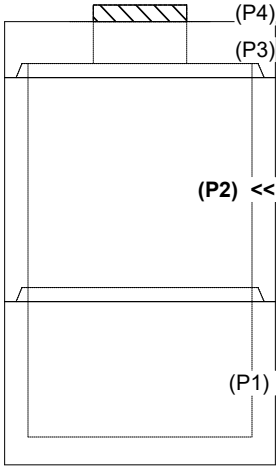
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

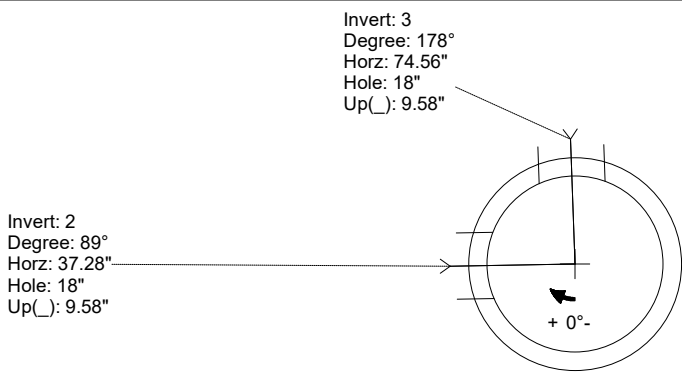
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 31" Height (Ext): 37"	Weight (Net): 3202 lb Volume (Net): 0.82cu.yd
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Job Name: 25-4490P2 Heartland Meadows Subdivision Job Location: Elizabethtown, KY 40165 Contractor: Kauffeld Brothers Construction					Plant: 100 7/30/2026 10:20:29 AM		Tech: Jared - A PC: Celina Goff				
Structure ID: CB 5-59 (65)											
P2 MH048RS48S		MH RISER SPECIAL									
P4) 20" x 24" - CASTING HEIGHT - 3.5" P3) 48" - MH FLAT TOP w/20"x24" Hole - 12" P2) 48" - MH RISER SPECIAL - 48" P1) 48" - MH BASE Custom Ht - 29" 1) CASTING - HOE 410 F/G 2) 48" - Conseal CS-102 1.00" 1) Hole - 24 2) Hole - 18						0 lb 1562 lb 3135 lb 3159 lb 228 lb 0 lb 0 lb 0 lb ----- Structure Total: 8084 lb		Structure Notes: . 1. HOE 410 F/G PROVIDED BY ICAST. 2. PER ASTM C478 SPECIFICATIONS. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. 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: 863.26' Rim to Invert: 7.59' Slack: 0.18" Sump: 1.6" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2	859.21'	89°	45.047"	12" HDPE	14.5"	Hole 18	18"	18.451"	9.58"	0"	
Invert 3	859.21'	178°	90.094"	12" HDPE	14.5"	Hole 18	18"	18.451"	9.58"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

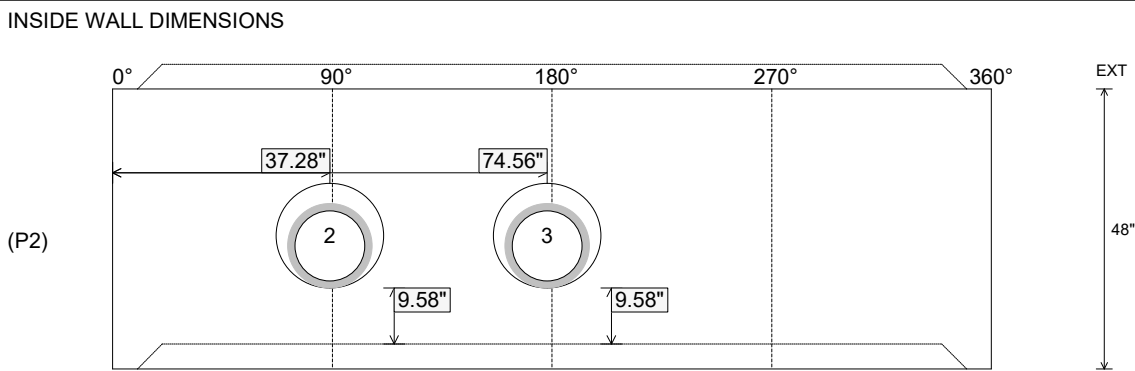
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 3
Degree: 178°
Horz: 74.56"
Hole: 18"
Up(): 9.58"

Invert: 2
Degree: 89°
Horz: 37.28"
Hole: 18"
Up(): 9.58"

INSIDE WALL DIMENSIONS



(P2)

0° 90° 180° 270° 360°

37.28" 74.56"

2 3

9.58" 9.58"

48"

EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 48" Height (Ext): 48"	Weight (Net): 3135 lb Volume (Net): 0.8cu.yd
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Job Name: 26-3367 ADS Paddocks of Parkridge Sec.2

Job Location: Louisville, KY

Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

8/26/2026 10:19:04 AM

Tech: S. Felletter

PC: M. Sullivan



Structure ID: WQU

P1MH060BAVF

MH BASE Custom Ht T/n

P5) 24" - CASTING HEIGHT - 7"

P4) 60" - MH FLAT TOP w/24" Ctr. Hole F/G - 13"

P3) 60" - MH RISER Custom Ht T/G - 69"

P2) 60" - MH RISER SPECIAL T/G - 72"

P1) 60" - MH BASE Custom Ht T/n - 25"

1) ASSEMBLY REQUIRED

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 Storm

3) 60" - Conseal CS-102 1.00" (Double)

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

2) Hole - 16

0 lb

2674 lb

7203 lb

7312 lb

5343 lb

0 lb

0 lb

0 lb

271 lb

0 lb

0 lb

0 lb

22803 lb

Structure Total:

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 .18)

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

Rim: 479.17'

Rim to Invert: 8.75'

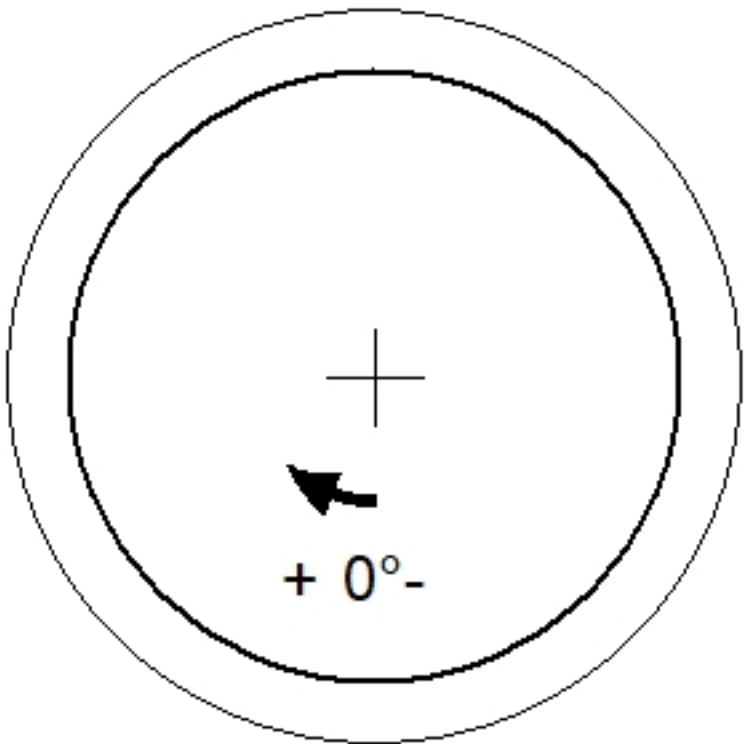
Slack: 0"

Sump: 81"

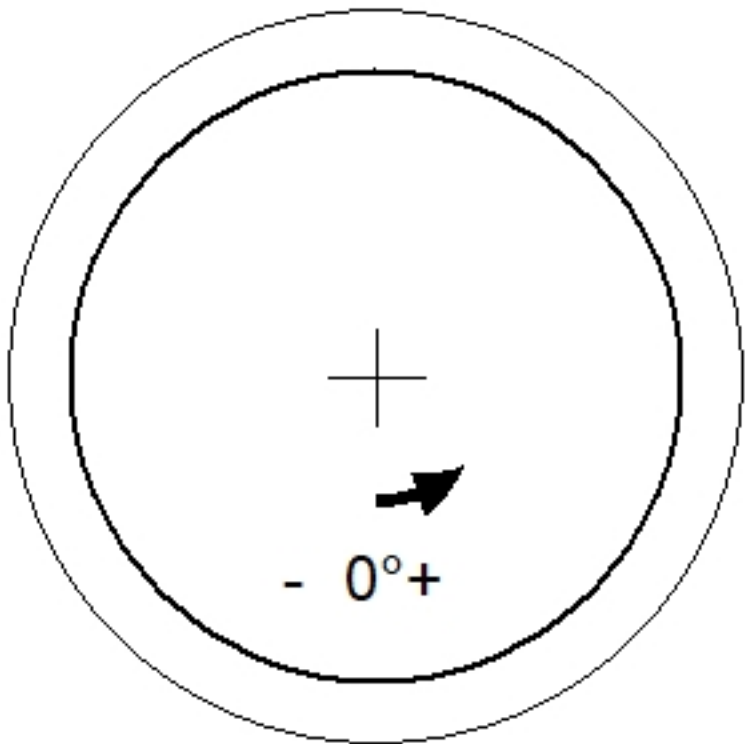
Step Position: 0°

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										

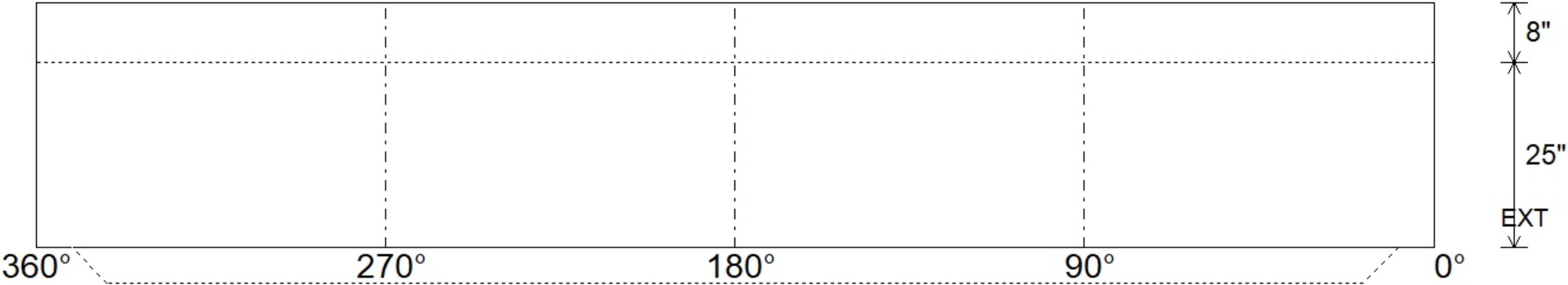
RIGHT-SIDE UP VIEW (int. dimensions)

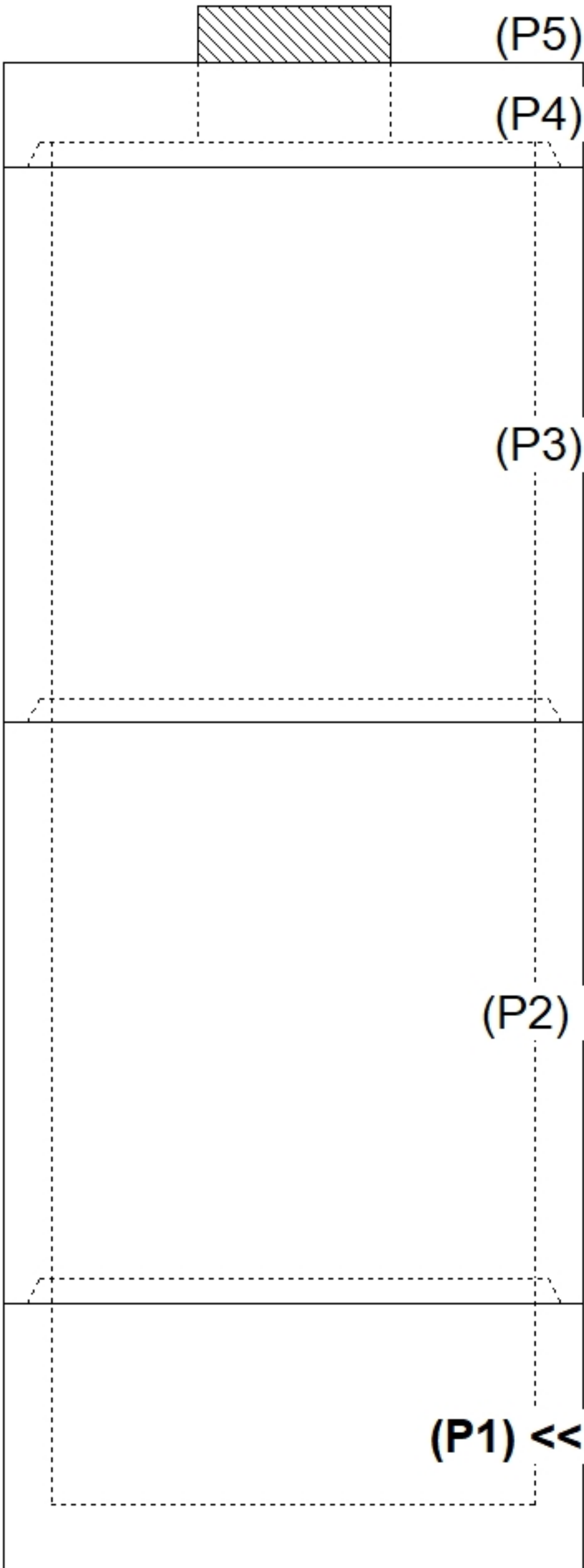


UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS





(P1) <<

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

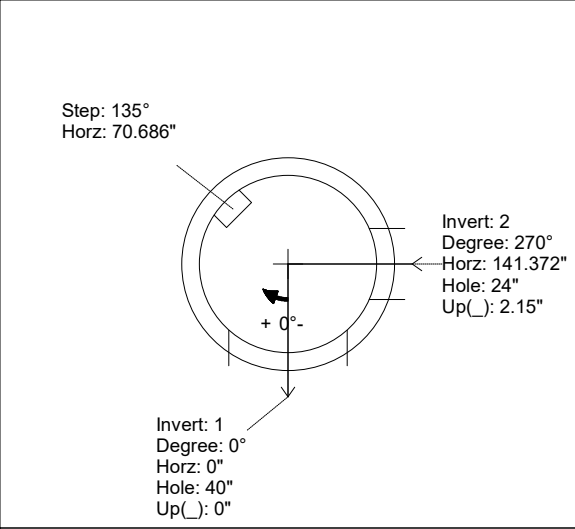
Height (Int): 25"

Height (Ext): 33"

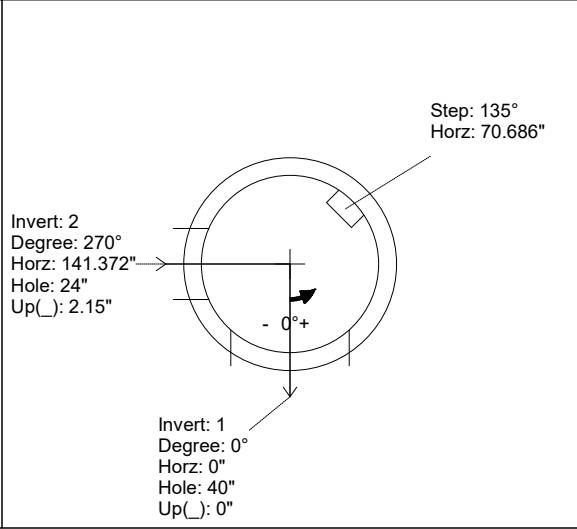
Weight (Net): 5343 lb

Volume (Net): 1.36cu.yd

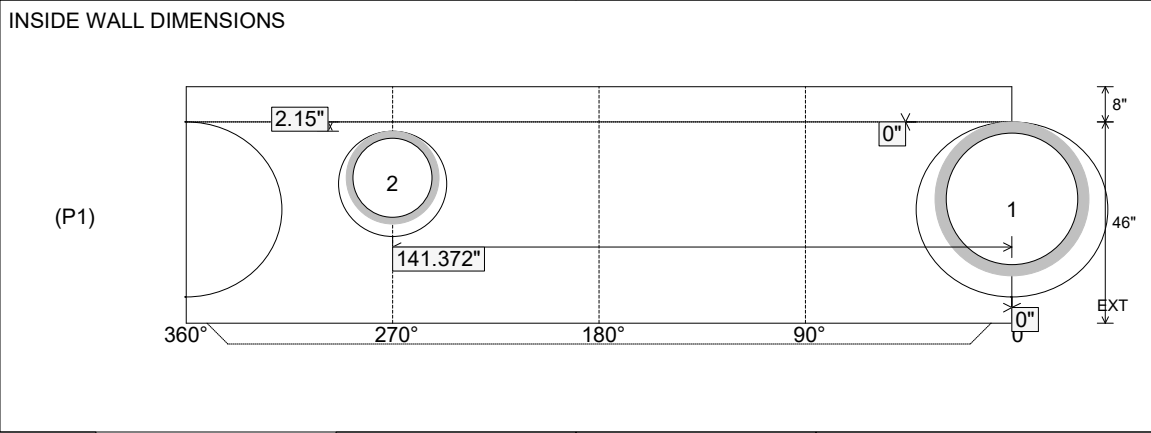
Job Name: 26-2212 - CDTI Building 1 Job Location: Charlestown, IN Contractor: Dan Cristiani Excavating Co. Inc.					Plant: Beaver Dam 8/18/2026 12:38:36 PM		Tech: J. Coppage PC: E. Bradley				
Structure ID: 202 ST-MH											
P1 MH060BAVF		MH BASE Custom Ht									
P3) 24" x 48" - CASTING HEIGHT - 8" P2) 60" - MH FLAT TOP w/24"x48" Hole - 13" P1) 60" - MH BASE Custom Ht - 46" 1) 60" - Conseal CS-102 1.00" 1) 24" x 48" - Conseal CS-102 1.00" 1) Hole - 40 1) Hole - 24 4) MH Step ML-10-TDS-NCR - 10"						0 lb 2272 lb 6620 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 8892 lb		Structure Notes: . **INDOT STATE PROJECT** 1. (NEENAH R-3287-15 PROVIDED BY OTHERS) 2. INDOT MH TYPE J / ASTM C478 SPEC'S. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. NO INVERT CHANNEL. 5. REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .12) - FLOOR (As .62) #5 BARS AT 6" C.C.E.W.			
Rim: 607.39'		Rim to Invert: 5.38'		Slack: 0.11"		Sump: 2.55"		Step Position: 135°			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	602.01'	0°	0"	30" HDPE	35.1"	Hole 40	40"	43.784"	0"	0"	
Invert 2	602.11'	270°	169.646"	18" HDPE	21.2"	Hole 24	24"	24.691"	2.15"	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: 8"	Height (Int): 46" Height (Ext): 54"	Weight (Net): 6620 lb Volume (Net): 1.69cu.yd
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Job Name: 26-2820 - Utility Relocation
Job Location: Jackson, KY
Contractor: Triton Construction

Plant: 100

8/19/2026 11:09:13 AM

Tech: Jared - F
PC: E. Bradley



Structure ID: QL1

P4 MH060LD13S

MH FLAT TOP w/24"x36" Hatch F/G

P5) 24" x 36" - HATCH (CAST FLUSH) - 3"
P4) 60" - MH FLAT TOP w/24"x36" Hatch F/G - 13"
P3) 60" - MH RISER SPECIAL T/G - 60"
P2) 60" - MH RISER SPECIAL T/G - 36"
P1) 60" - MH BASE Custom Ht T/n - 56"
1) HATCH (Alum.) - HALLIDAY W1S 24"x36"
3) JOINT WRAP - 12" WD x 060" MAC WRAP
3) 60" - Conseal CS-231 1.00" (Double)
3) PSX - 8QRS-S NYLO
2) PSX - 12-08 NYLO

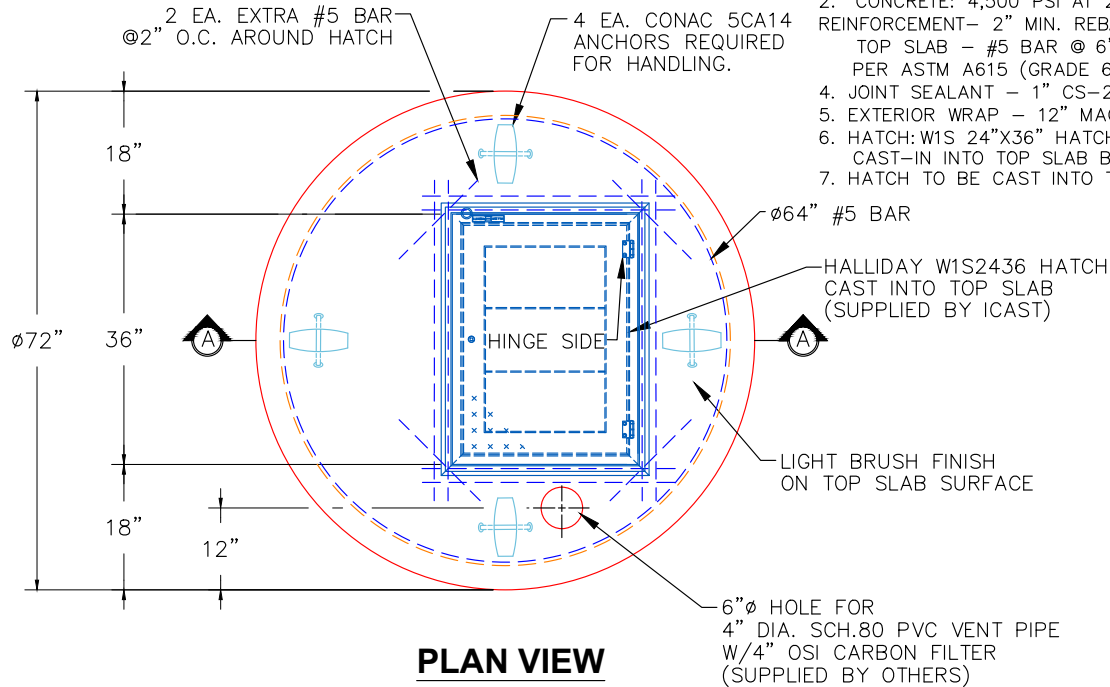
100 lb
2478 lb
6128 lb
3701 lb
8579 lb
61 lb
0 lb
0 lb
20 lb
16 lb

Structure Total: 21082 lb

Structure Notes:

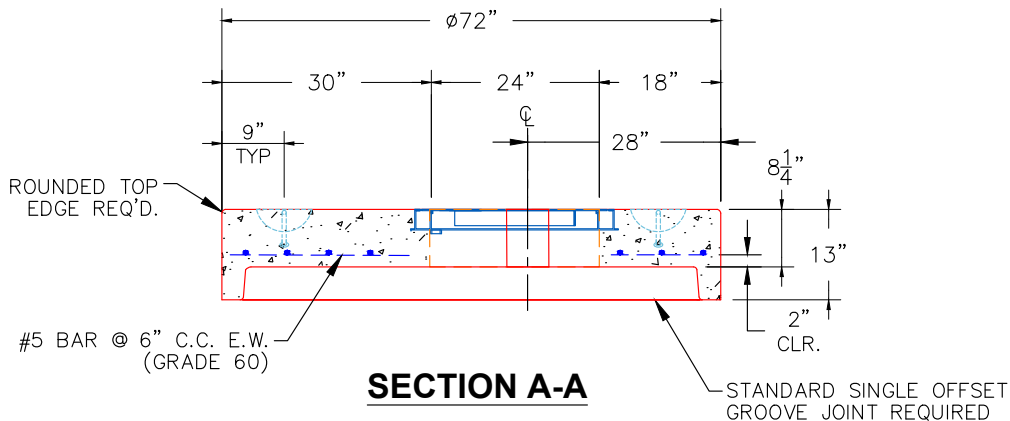
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,500 PSI AT 28 DAYS.
3. HALLIDAY W1S 36" X24" HATCH TO BE SUPPLIED BY ICAST & CAST-IN INTO TOP SLAB BY ICAST.

REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .24)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



NOTES:

1. PER ASTM C-478 LATEST REVISION
2. CONCRETE: 4,500 PSI AT 28 DAYS.
- REINFORCEMENT- 2" MIN. REBAR CLEARANCE (TYP):
TOP SLAB - #5 BAR @ 6" C.C.E.W.
PER ASTM A615 (GRADE 60)
4. JOINT SEALANT - 1" CS-231-DOUBLE
5. EXTERIOR WRAP - 12" MACWRAP. (SUPPLIED BY ICAST).
6. HATCH: W1S 24"x36" HATCH IS PROVIDED BY ICAST & CAST-IN INTO TOP SLAB BY ICAST
7. HATCH TO BE CAST INTO TOP SLAB.



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 13"

Weight (Net): 2478 lb
Volume (Net): 0.63cu.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 1:21:19 PM		PC: Celina Goff			
Structure ID: 2301583										
P1 MH060BA72			MH BASE T/n							
P6) 24" - CASTING HEIGHT - 7" P5) 24" - GRADE RING F/F - 6" P4) 48" - CON CONE w/24" HOLE F/G - 24" P3) 48" - MH RISER T/G - 48" P2) 60" - MH Transition Slab 48" Hole T/G - 15" P1) 60" - MH BASE T/n - 72" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 12) MH Step ML-10-TDS-NCR - 10"					0 lb 405 lb 2252 lb 3353 lb 2204 lb 8895 lb 2692 lb 0 lb 0 lb 2 lb 0 lb ----- Structure Total: 19803 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 90 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS			
Rim: 747.54' Rim to Invert: 14.21' Slack: 1.52" Sump: 3" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.33'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.43'	182°	114.375"	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: 8"	Height (Int): 72" Height (Ext): 80"	Weight (Net): 8895 lb Volume (Net): 2.27cu.yd
----------------------------------	---------------------------------	--	--	--

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

Job Location: Fort Mitchell, KY 41017

Contractor: Lykins Contracting

Plant: 100

3/20/2026 1:21:19 PM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301583

P1 MH060BA72

MH BASE T/n

P6) 24" - CASTING HEIGHT - 7"

P5) 24" - GRADE RING F/F - 6"

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

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

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

P1) 60" - MH BASE T/n - 72"

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

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

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

2) A-Lok - 1235

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

0 lb

405 lb

2252 lb

3353 lb

2204 lb

8895 lb

2692 lb

0 lb

0 lb

2 lb

0 lb

Structure Total: 19803 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT:

- WALLS: PER ASTM A615 - DOUBLE MAT

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

4. INVERT CHANNEL REQUIRED

5. STEPS AT 90 DEGREES

6. 7" CASTING SUPPLIED BY OTHERS

Rim: 747.54' Rim to Invert: 14.21' Slack: 1.52" Sump: 3" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.33'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.43'	182°	114.375"	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

(P6)

(P5)

(P4)

(P3)

(P2)

(P1) <<

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

Height (Int): 72"

Height (Ext): 80"

Weight (Net): 8895 lb

Volume (Net): 2.27cu.yd

Job Name: 26-2212 - CDTI Building 1
Job Location: Charlestown, IN
Contractor: Dan Cristiani Excavating Co. Inc.

Plant: Beaver Dam

Tech: J. Coppage

8/18/2026 12:40:28 PM

PC: E. Bradley



Structure ID: 108 ST-MH

P3 MH072LD10-24X36RECT

MH FLAT TOP w/24"x36" Hole

- P4) 24" x 36" - CASTING HEIGHT - 6"
P3) 72" - MH FLAT TOP w/24"x36" Hole - 10"
P2) 72" - MH RISER Custom Ht - 39"
P1) 72" - MH BASE Custom Ht - 66"
2) 72" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
2) Hole - 52
1) DOGHOUSE INVRTD - 32"x28"
5) MH Step ML-10-TDS-NCR - 10"

0 lb
4149 lb
5189 lb
10787 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Total:

20126 lb

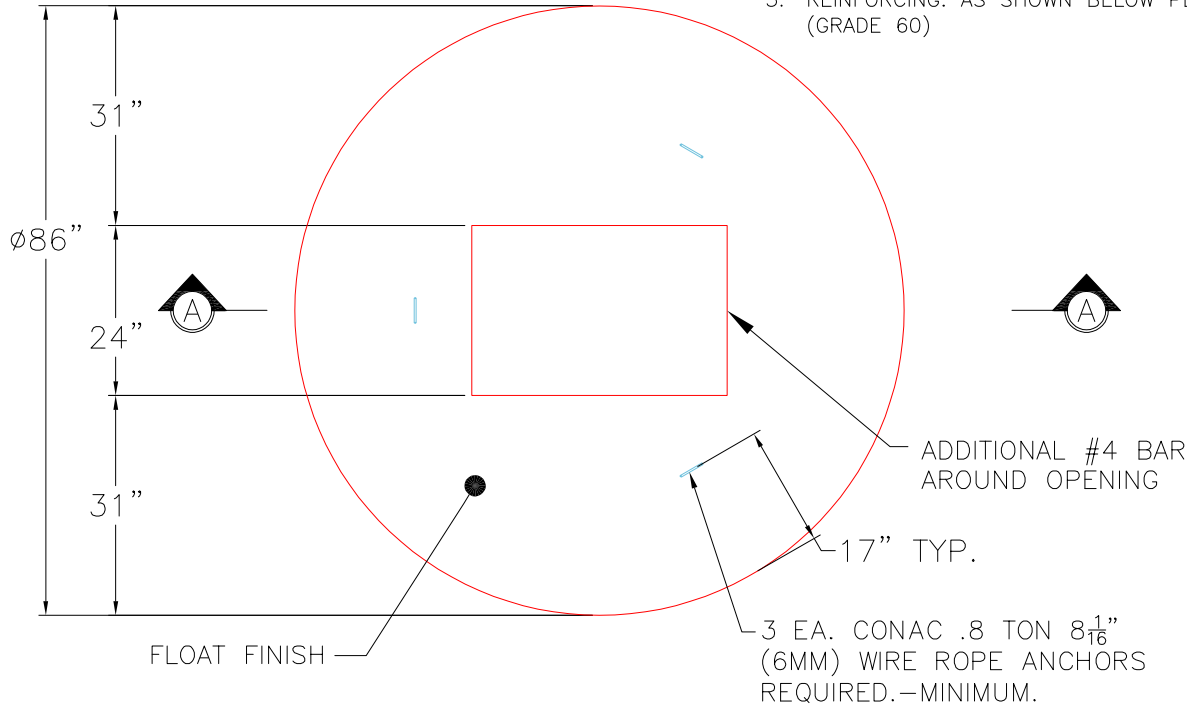
Structure Notes:

INDOT STATE PROJECT

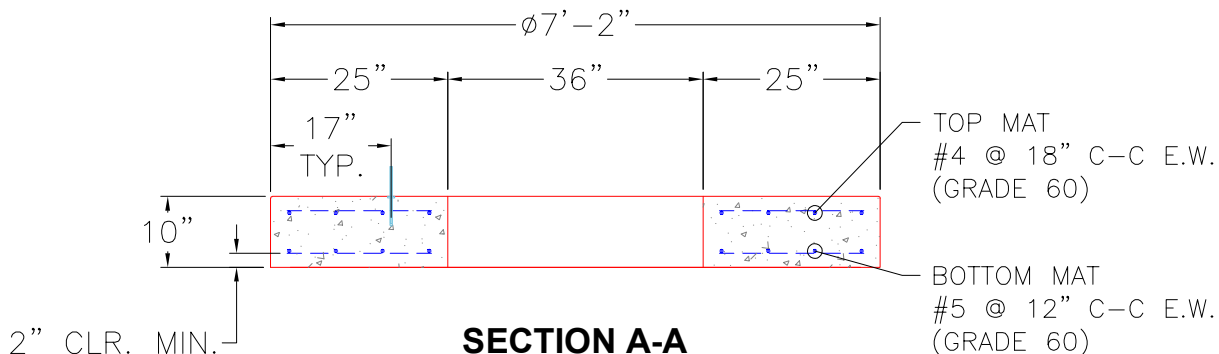
1. (GREEN HAT CI3158-F PROVIDED BY OTHERS)
2. INDOT MH TYPE K / ASTM C478 SPEC'S.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE 4,000 PSI AT 28 DAYS.
3. REINFORCING: AS SHOWN BELOW PER ASTM C-478 (GRADE 60)



PLAN VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

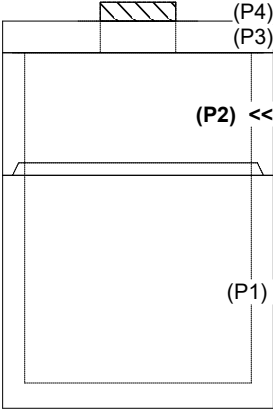
Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 7"

Height (Ext): 10"

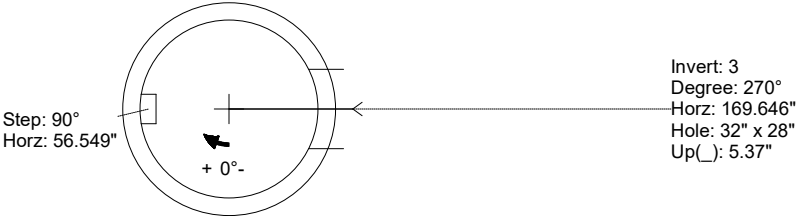
Weight (Net): 4149 lb
Volume (Net): 1.06cu.yd

Job Name: 26-2212 - CDTI Building 1 Job Location: Charlestown, IN Contractor: Dan Cristiani Excavating Co. Inc.					Plant: Beaver Dam 8/18/2026 12:42:51 PM		Tech: J. Coppage PC: E. Bradley				
Structure ID: 108 ST-MH											
P2		MH072RSVF		MH RISER Custom Ht							
P4) 24" x 36" - CASTING HEIGHT - 6" P3) 72" - MH FLAT TOP w/24"x36" Hole - 10" P2) 72" - MH RISER Custom Ht - 39" P1) 72" - MH BASE Custom Ht - 66" 2) 72" - Conseal CS-102 1.00" 1) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 52 1) DOGHOUSE INVRTD - 32"x28" 5) MH Step ML-10-TDS-NCR - 10"					0 lb 4149 lb 5189 lb 10787 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 20126 lb		Structure Notes: . **INDOT STATE PROJECT** 1. (GREEN HAT CI3158-F PROVIDED BY OTHERS) 2. INDOT MH TYPE K / ASTM C478 SPEC'S. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. NO INVERT CHANNEL. 5. REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .12) - FLOOR (As .62) #5 BARS AT 6" C.C.E.W.				
Rim: 606.47' Rim to Invert: 9.98' Slack: 1.91" Sump: 3.15" Step Position: 90°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2											
Invert 3	602.75'	270°	202.633"	24" HDPE	27.8"	DOGHOUSE INVRTD 32"x28"	32" x 28"	33.16"	5.37"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

RIGHT-SIDE UP VIEW (int. dimensions)

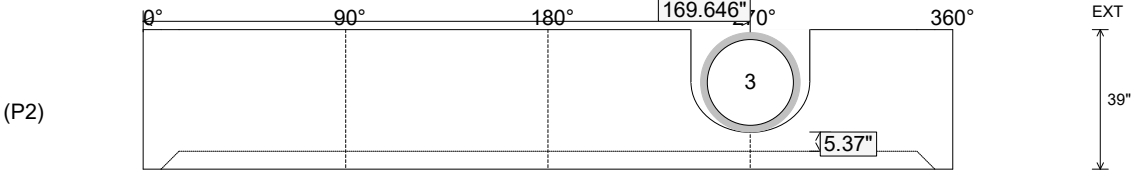


Step: 90°
Horz: 56.549"

Invert: 3
Degree: 270°
Horz: 169.646"
Hole: 32" x 28"
Up(): 5.37"

+ 0°

INSIDE WALL DIMENSIONS



(P2)

0° 90° 180° 169.646" 0° 360°

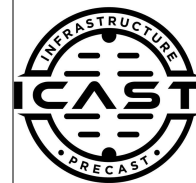
3

5.37"

39"

EXT

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 7" Floor Height: 0"	Height (Int): 39" Height (Ext): 39"	Weight (Net): 5189 lb Volume (Net): 1.32cu.yd
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Weight (Net): 12637 lb
Volume (Net): 3.23cu.yd

Job Name: 26-2212 - CDTI Building 1
Job Location: Charlestown, IN
Contractor: Dan Cristiani Excavating Co. Inc.

Plant: Beaver Dam

Tech: J. Coppage

8/18/2026 12:40:39 PM

PC: E. Bradley



Structure ID: 211 ST-MH

P2 MH072TS15-48ECC

MH Transition Slab 48" Hole

P6) 24" x 36" - CASTING HEIGHT - 7"
P5) 48" - MH FLAT TOP w/24"x36" Hole - 7"
P4) 48" - MH RISER Custom Ht - 30"
P3) 48" - MH RISER Custom Ht - 63"
P2) 72" - MH Transition Slab 48" Hole - 15"
P1) 72" - MH BASE Custom Ht - 67"
1) 72" - Conseal CS-102 1.00"
3) 48" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
2) Hole - 58
2) Hole - 32
14) MH Step ML-10-TDS-NCR - 10"

0 lb
1044 lb
1870 lb
3900 lb
3864 lb
10159 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 20838 lb

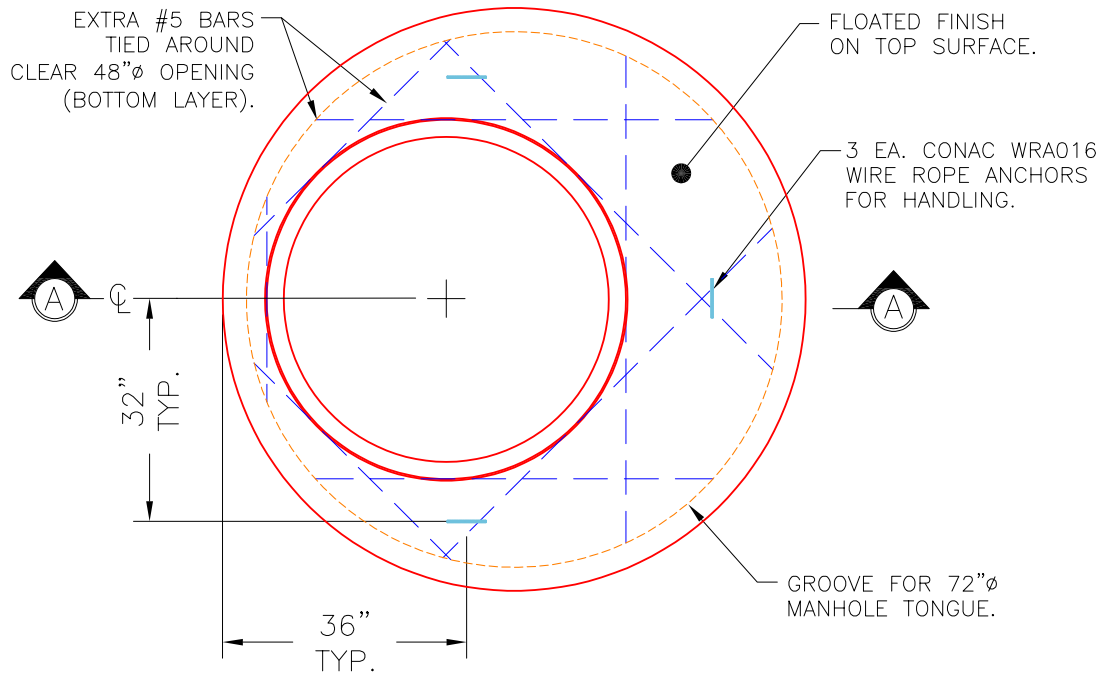
Structure Notes:

INDOT STATE PROJECT

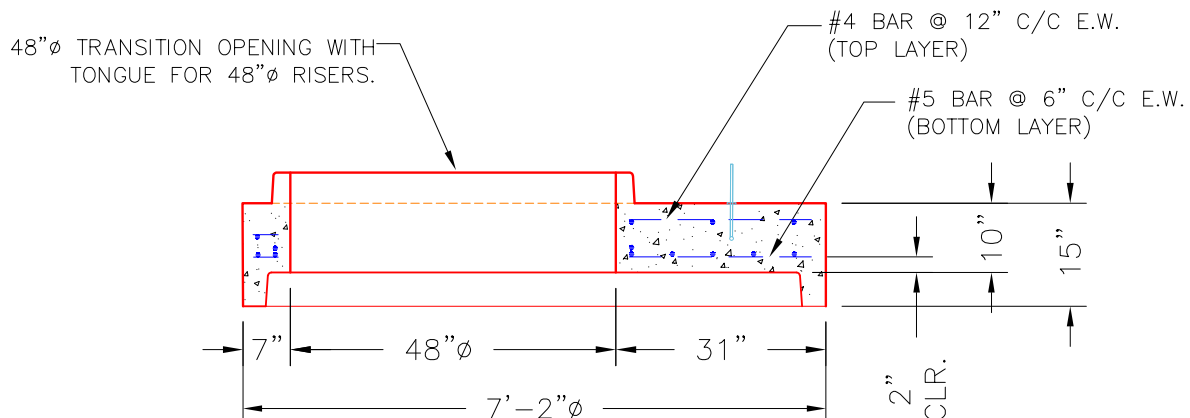
1. (GREEN HAT CB2436-7-F PROVIDED BY OTHERS)
2. INDOT MH TYPE K / ASTM C478 SPEC'S.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB AS SHOWN BELOW
 - RISER/WALLS (As .12)
 - FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #4 & #5 BAR AS SHOWN (GRADE 60).
4. TONGUE REQUIRED OFFSET FOR 48"Ø COMPONENTS.



PLAN VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 7"

Height (Ext): 15"

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

Job Name: 26-1549 Cowan St. Trunk Sewer
Job Location: Nashville, TN
Contractor: Garney Companies, Inc.

Plant: 100

8/5/2026 9:31:50 AM

Tech: Jared - A

PC: Jay Ross Jarvis



Structure ID: MH-5-6 SS-MH

P5 MH084LD17SPX

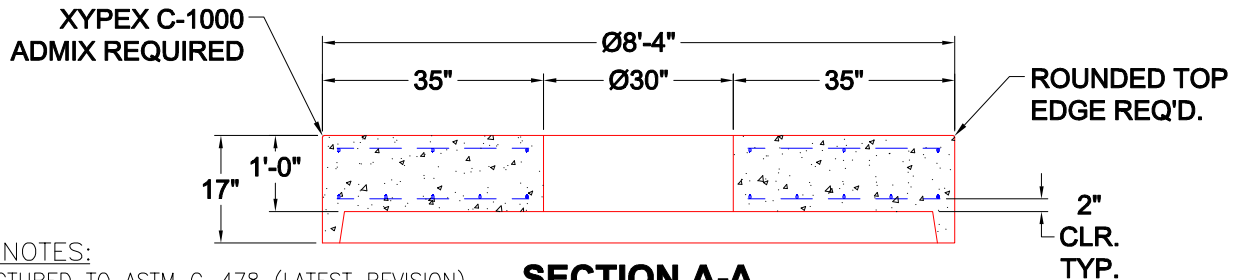
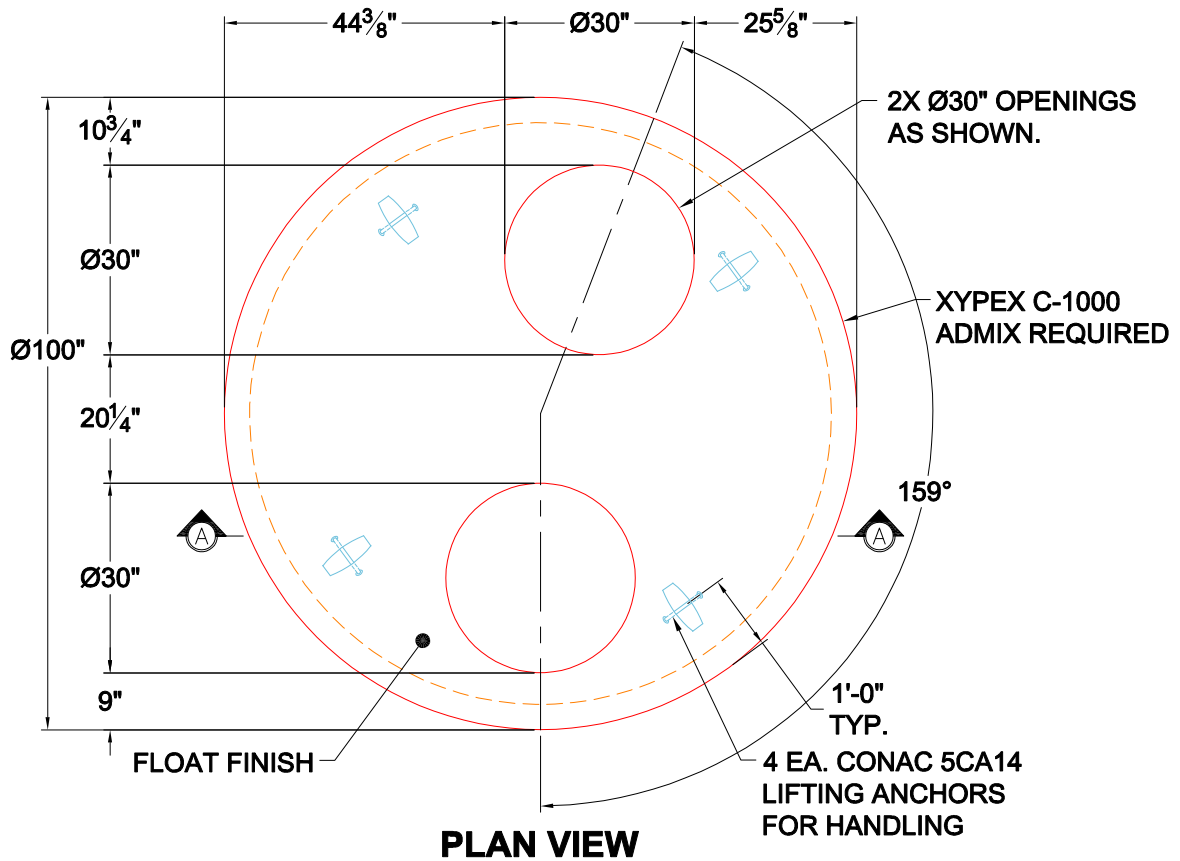
MH FLAT TOP w/2X 30" Holes ECC w/XYPEX

- P6) 30" - CASTING HEIGHT - 6"
P5) 84" - MH FLAT TOP w/2X 30" Holes ECC w/XYPEX - 17"
P4) 84" - MH RISER w/XYPEX - 96"
P3) 84" - MH RISER w/XYPEX - 96"
P2) 84" - MH RISER w/XYPEX - 96"
P1) 84" - MH BASE w/FLANGE (12F/14EF) w/XYPEX - 93"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) ADMIXTURE XYPEX C-1000 RED
1) SECONDARY POUR - EXT. FLANGE
2) CASTING - JBS 1312 WT F/C SANITARY
4) 84" - Conseal CS-102 1.00" (Double)
2) A-Lok - 1840
1) Kor-N-Seal2 - S206-30 (DBL Bands)

Structure Total:

- 0 lb
6992 lb
18626 lb
18143 lb
18626 lb
27004 lb
0 lb
0 lb
0 lb
0 lb
600 lb
0 lb
2 lb
6 lb

89999 lb
- Structure Notes:**
PLAN LABEL: MH-5
1. JBS 1312 WT F/C SANITARY PROVIDED BY ICAST.
2. PER ASTM C478 SPECIFICATIONS.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. ADMIXTURE = XYPEX C-1000 RED.
5. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB AS SHOWN BELOW.
- RISER/WALLS (As .24)
- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.
6. DOUBLE BANDS FOR BOOTS
7. ANY REQUIRED INTERIOR COATINGS TO BE SUPPLIED & APPLIED BY OTHERS.
8. **NO STEPS**



GENERAL NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE 5,000 PSI AT 28 DAYS.
3. XYPEX C-1000 ADMIX REQUIRED.
4. REINFORCING: TOP MAT #4 @ 18" O.C. E.W.
BOTTOM MAT #4 @ 9" O.C. E.W.
(GRADE 60)

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

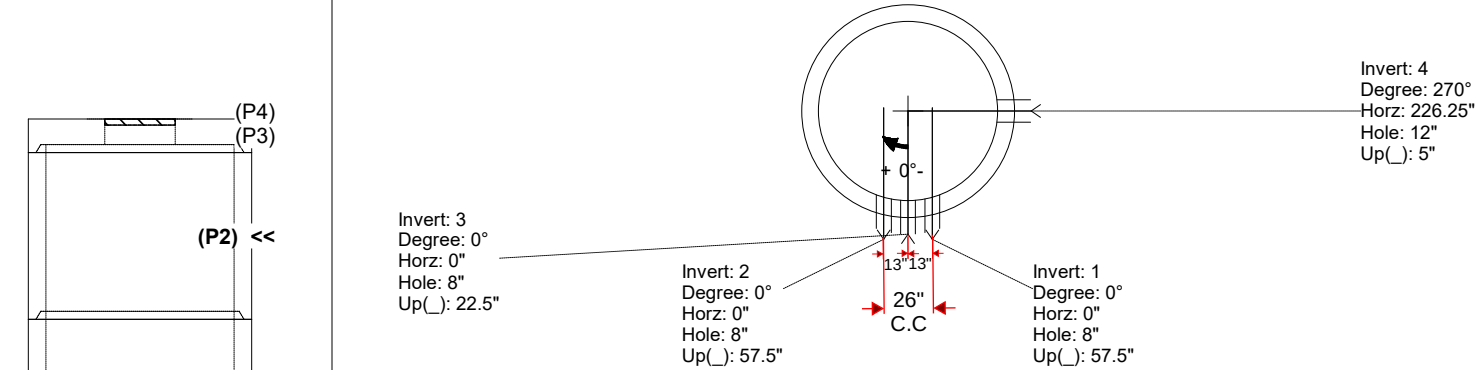
Wall Thickness: 8"

Height (Ext): 17"

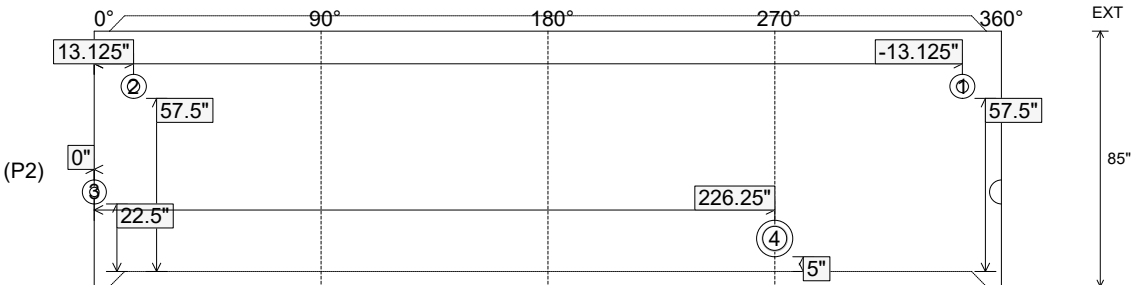
Weight (Net): 6992 lb
Volume (Net): 1.79cu.yd

Job Name: 26-1814 - Brownsville Sewer System Additions Job Location: Cave City, KY Contractor: Luttrell & Sons, LLC				Plant: 100 8/4/2026 6:58:39 PM		Tech: Jared - F PC: A. Chambers				
Structure ID: QL3										
P2		MH096RSVF		MH RISER Custom Ht T/G						
P4) 37" x 59" - HATCH (CAST FLUSH) - 3" P3) 96" - MH FLAT TOP w/37"x59" Hatch F/G - 17" P2) 96" - MH RISER Custom Ht T/G - 85" P1) 96" - MH BASE EF Cust. Ht. 12"F (12"EF =138"OD) T/n - 60" 2) JOINT WRAP - 12" WD x 096" MAC WRAP 2) 96" - Conseal CS-231 1.00" (Double) 3) PSX - 8QRS-S NYLO 1) PSX - 12-08 NYLO NOTE: 4 EA. 5CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING – INSTALLED AT 45, 135, 225, & 315, 24" FROM TOP OF WALLS				100 lb 8296 lb 20973 lb 30008 lb 0 lb 0 lb 20 lb 8 lb ----- Structure Total: 59404 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. 37" X 59" USF ALUMINIUM DOUBLE DOOR HATCH APD TO BE SUPPLIED BY OTHERS & CAST-IN INTO CENTER OF TOP SLAB BY ICAST. REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. (DOUBLE MAT) - RISER/WALLS (As .24) - FLOOR (As .47) TOP AND BTM LAYER AT #5 BARS AT 12" C.C.E.W.				
Rim: 496.5' Rim to Invert: 7.5' Slack: 0" Sump: 72" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	493.38'	0°	-13.125"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.324"	57.5"	-13"
Invert 2	493.38'	0°	13.125"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.324"	57.5"	13"
Invert 3	490.5'	0°	0"	3" PVC SDR35	3.25"	PSX 8QRS-S NYLO	8"	8.009"	22.5"	0"
Invert 4	489'	270°	268.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.031"	5"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

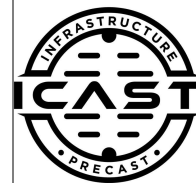


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 9" Floor Height: 0"	Height (Int): 85" Height (Ext): 85"	Weight (Net): 20973 lb Volume (Net): 5.36cu.yd
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Plant: 100

8/4/2026 6:58:24 PM

Tech:	Jared - F
PC:	A. Chambers

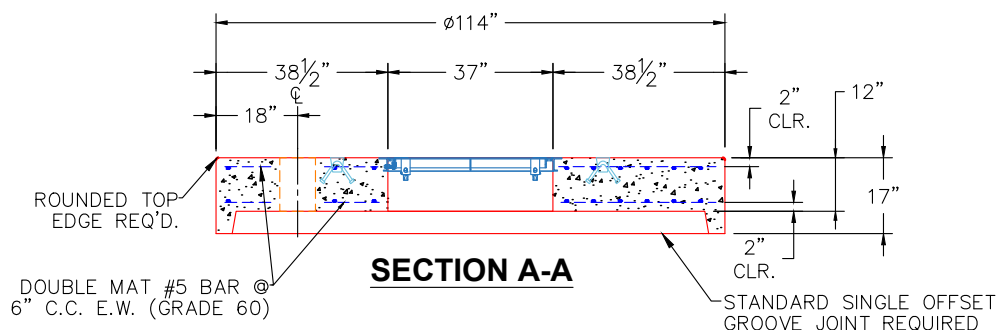
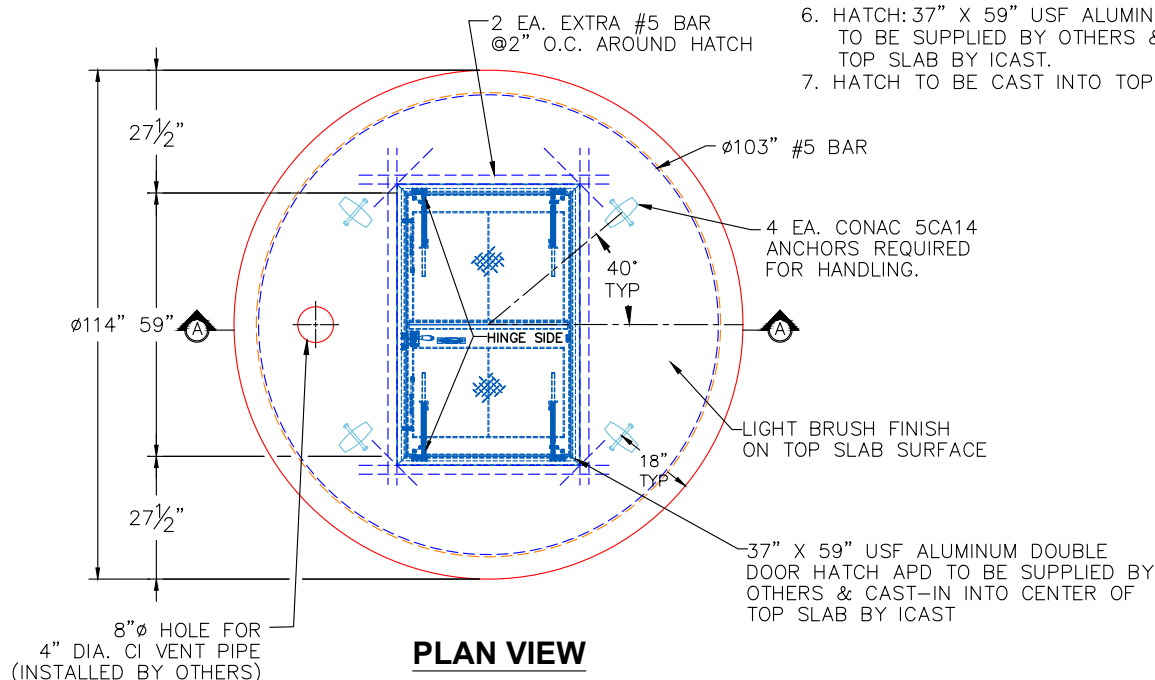


MH FLAT TOP w/37"x59" Hatch F/G

	100 lb
	8296 lb
	20973 lb
	30008 lb
	0 lb
	0 lb
	20 lb
	8 lb
Structure Total:	<u>59404 lb</u>

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. 37" X 59" USF ALUMINIUM DOUBLE DOOR HATCH
APD TO BE SUPPLIED BY OTHERS & CAST-IN INTO
CENTER OF TOP SLAB BY ICAST.
4. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. (DOUBLE MAT)
 - RISER/WALLS (As .24)
 - FLOOR (As .47) TOP AND BTM LAYER AT #5 BARS AT 12" C.C.E.W.

1. PER ASTM C-478 LATEST REVISION
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP):
TOP LAYER - #5 BAR @ 6" C.C.E.W.
BTM LAYER - #5 BAR @ 6" C.C.E.W.
PER ASTM A615 (GRADE 60).
4. JOINT SEALANT - 1" CS-231-DOUBLE.
5. EXTERIOR WRAP - 12" MACWRAP. (SUPPLIED BY ICAST).
6. HATCH: 37" X 59" USF ALUMINUM DOUBLE DOOR HATCH APD
TO BE SUPPLIED BY OTHERS & CAST-IN INTO CENTER OF
TOP SLAB BY ICAST.
7. HATCH TO BE CAST INTO TOP SLAB.



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 9"

Height (Ext): 17"

Weight (Net): 8296 lb
Volume (Net): 2.12cu.yd

Job Name: 25-4490P2 Heartland Meadows Subdivision

Job Location: Elizabethtown, KY 40165

Contractor: Kauffeld Brothers Construction

Plant: 100

7/30/2026 10:22:50 AM

Tech: Jared - A

PC: Celina Goff

Structure ID: CB 4-48 (53)

P1 BX3636-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

P3) 24" x 36" - CASTING HEIGHT - 6"

P2) 36" x 36" - CB FLAT TOP 8"W w/24"x36" HOLE - 8"

P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 46"

1) CASTING - HOE 470 SET LV (F/G/H)

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

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

1) Hole - 30

1) Hole - 24

0 lb

1235 lb

6472 lb

394 lb

0 lb

0 lb

0 lb

0 lb

8101 lb

Structure Notes:

1. HOE 470 FLAT SET PROVIDED BY ICAST.

2. PER ASTM C913 SPECIFICATIONS.

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

4. NO INVERT CHANNEL.

5. 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.

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

Rim: 871.92'

Rim to Invert: 5'

Slack: 0"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	866.92'	180°	26"	24" HDPE	27.8"	Hole 30	30"	30"	-1.9"	0"
Invert 2	866.92'	270°	26"	18" HDPE	21.2"	Hole 24	24"	24"	-1.6"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

(P3)

(P2)

(P1) <<

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 46"

Height (Ext): 54"

Weight (Net): 6472 lb

Volume (Net): 1.65cu.yd

Job Name: 25-4490P2 Heartland Meadows Subdivision
Job Location: Elizabethtown, KY 40165
Contractor: Kauffeld Brothers Construction

Plant: 100
7/31/2026 9:24:18 AM

Tech: Jared - A
PC: Celina Goff



Structure ID: CB 4-42 (59)

P1 BX2430-08BA48

BOX BASE 8inW, 8inF

P3) 24" x 30" - CASTING HEIGHT - 6"
P2) 24" x 30" - BOX RISER 8inW, Variable Ht - 25"
P1) 24" x 30" - BOX BASE 8inW, 8inF - 48"
1) CASTING - HOE 360 L Vane Set (F/G/H)
2) 24" x 30" - Conseal CS-102 1.00"
1) Hole - 18

Structure Total: 8287 lb

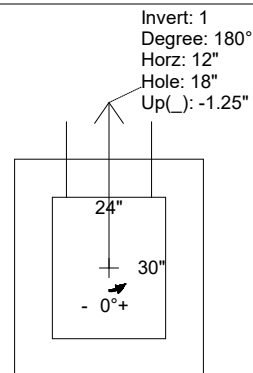
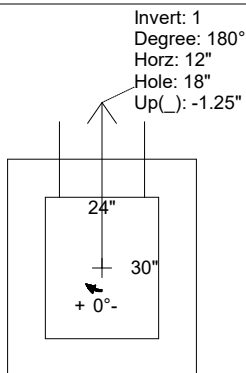
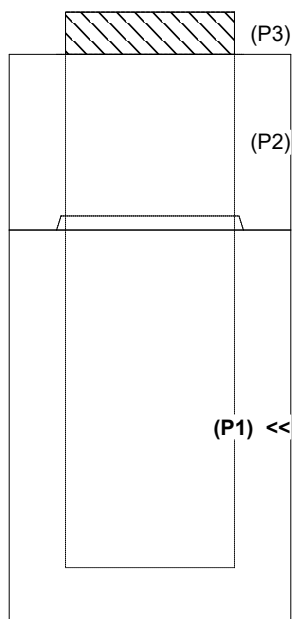
Structure Notes:
1. HOE 360 FLAT SET PROVIDED BY ICAST.
2. PER ASTM C913 SPECIFICATIONS.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 897.02' Rim to Invert: 6.61' Slack: 0.32' Sump: 0' Step Position:

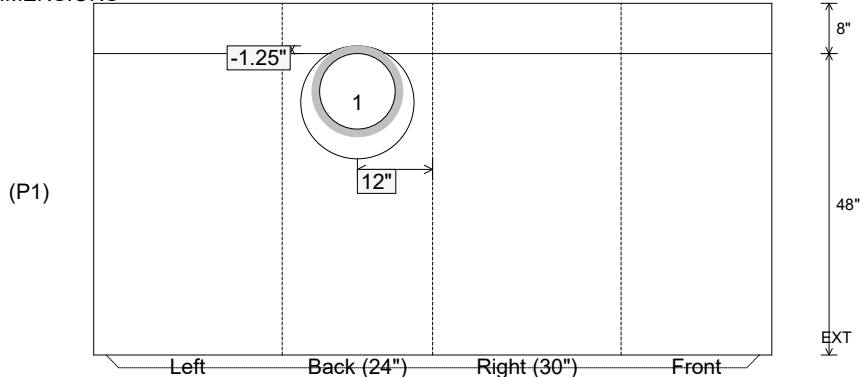
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	890.41'	180°	20"	12" HDPE	14.5"	Hole 18	18"	18"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 48"
Height (Ext): 56"

Weight (Net): 5575 lb
Volume (Net): 1.42cu.yd

Job Name: 26-1333B Mitchell Hill Road Project Job Location: Louisville, KY Contractor: Hall Contracting of Kentucky Inc				Plant: Beaver Dam 8/13/2026 3:42:05 PM		Tech: S. Felletter PC: J. Jarvis					
Structure ID: STR-2											
P1 BX2424-08BAVF				BOX BASE 8inW, 8inF, Variable Ht F/n							
P2) 24" x 24" - CB FLAT TOP 8"W (HOE KY-215 F&G) F/F - 8" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 34" 1) This Structure Includes a Cast-in Item 1) CASTING - HOE KY-215 F/BEEHIVE (DBI 15) 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 22				770 lb 3740 lb 0 lb 317 lb 0 lb 0 lb ----- Structure Total: 4828 lb		Structure Notes: 1. KYTC DBI TYPE 15 / ASTM C913 SPECIFICATIONS 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. DBI-15 F/G CAST INTO TOP SLAB (HOE KY-215 F/G BEEHIVE). . REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.					
Rim: 676.35' 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	672.85'	0°	20"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-3.5"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions) UPSIDE-DOWN VIEW (int. dimensions)											
INSIDE WALL DIMENSIONS											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 34" Height (Ext): 42"		Weight (Net): 3740 lb Volume (Net): 0.96cu.yd	

Job Name: 26-1000P2 Clark Distributing New HQ - Site Structures

Job Location: Bowling Green, KY

Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam

8/11/2026 9:19:04 AM

Tech: S. Felletter

PC: M. Sullivan



Structure ID: DBI-6

P1 BX4848-08BAVF

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

P2) 48" x 48" - CASTING HEIGHT - 4.5"

P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 40"

1) CASTING - HOE 918 F/G

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

1) Hole - 30

0 lb

8290 lb

228 lb

0 lb

0 lb

Structure Total: 8518 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. CASTING BY ICAST (HOE 918 F/G).

REINFORCING PER ASTM A615 (GRADE 60).

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

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

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

Rim: 582.71'

Rim to Invert: 3.71'

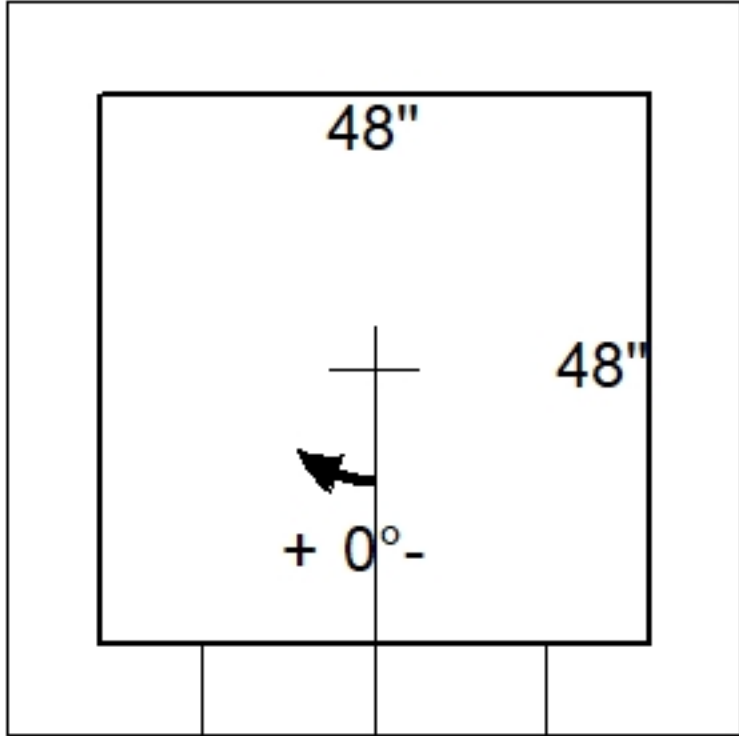
Slack: 0.02"

Sump: 0"

Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (␣)	Offset
Invert 1	579'	0°	32"	24" HDPE	27.8"	Hole 30	30"	30"	-1.9"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 1

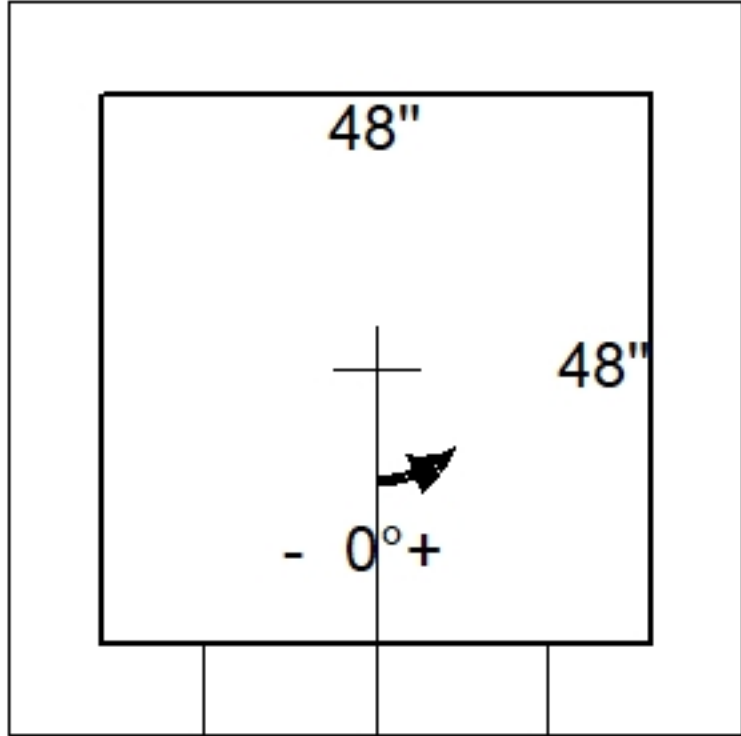
Degree: 0°

Horz: 24"

Hole: 30"

Up(α): -1.9"

UPSIDE-DOWN VIEW (int. dimensions)



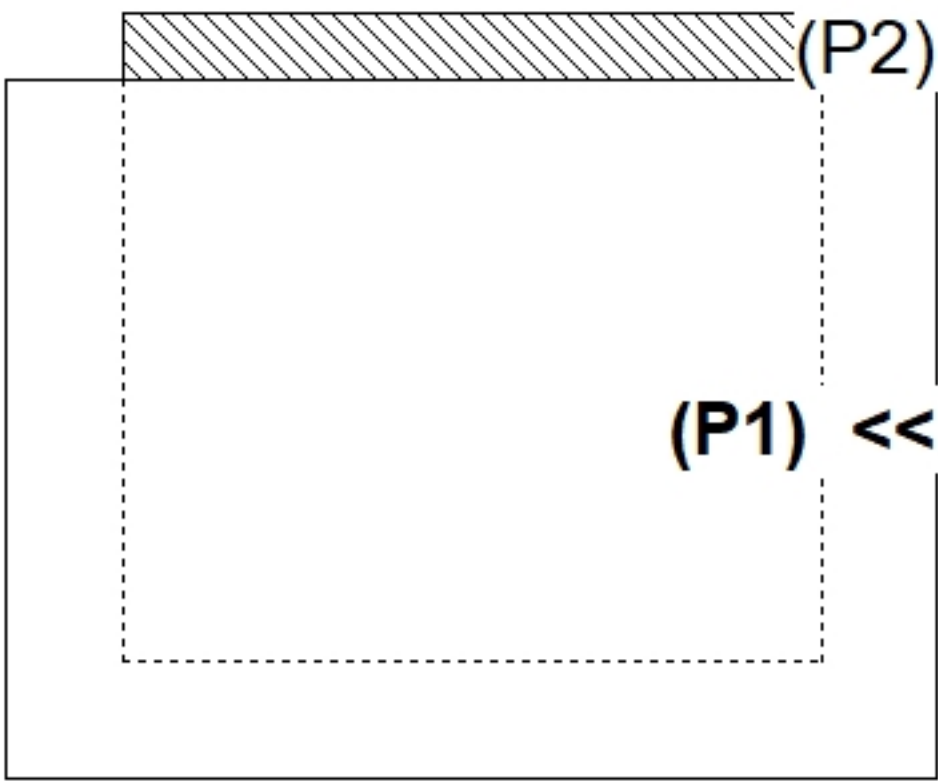
Invert: 1

Degree: 0°

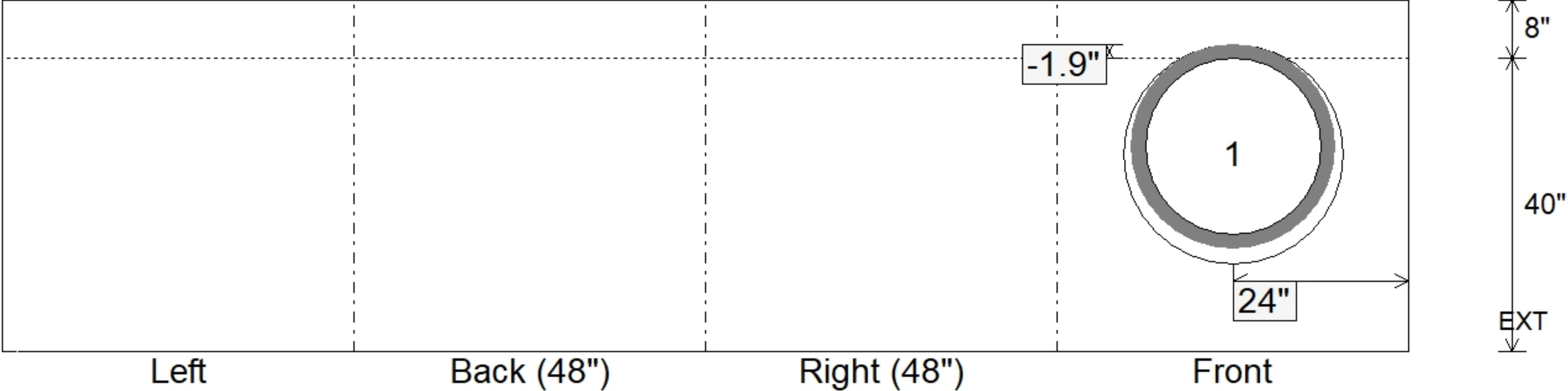
Horz: 24"

Hole: 30"

Up(α): -1.9"



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

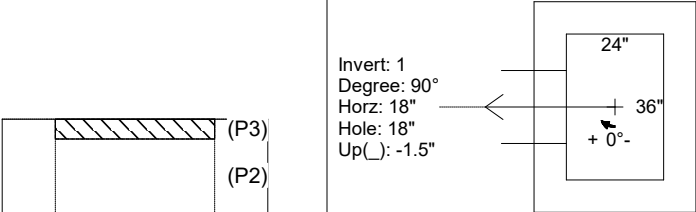
Height (Int): 40"

Height (Ext): 48"

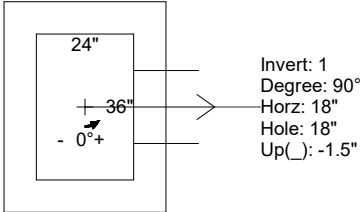
Weight (Net): 8290 lb

Volume (Net): 2.12cu.yd

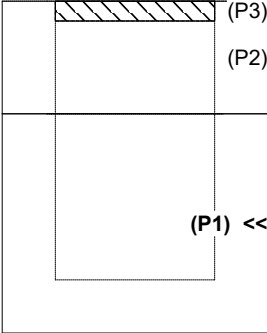
Job Name: 25-1684P14 KYTC Jefferson Co. Call 200 (251007) Job Location: I-264 Louisville, Ky. Contractor: Cleary Construction, Inc.					Plant: Beaver Dam, KY 8/6/2026 2:45:51 PM		Tech: J. Coppage PC: T. Ryan				
Structure ID: 4014+56 LT CBBI-MOD B1											
P1		BX2436-08BVF		BOX BASE 8inW, 8inF, Variable Ht							
P3) 24" x 120" - CASTING (cast in) - 3" P2) 24" x 120" - CB MED BAR BOX INLET 9B1 RH - 17" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 25" 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 18					0 lb 4000 lb 3776 lb 0 lb 0 lb ----- 7776 lb Structure Total:		Structure Notes: . -KYTC STATE PROJECT 251007 -REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.) -CASTING FRAMES & GRATES BY OTHERS. -CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST). -KYTC CERTIFICATIONS REQUIRED.				
Rim: 587.11' Rim to Invert: 3.9' Slack: 4.8" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	583.21'	90°	26"	15" CMP	16"	Hole 18	18"	18"	-1.5"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

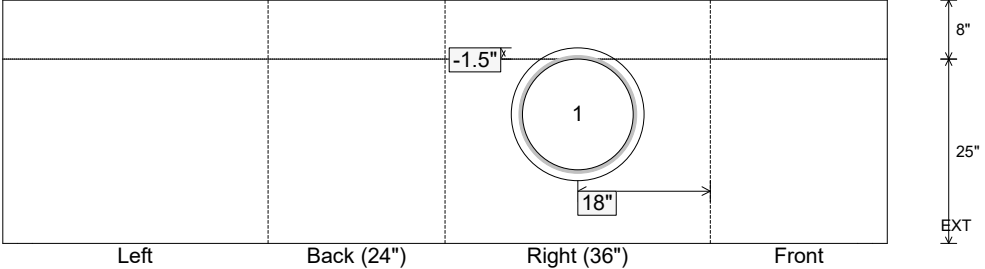


(P1) << (P2) (P3)

INVERT: 1
Degree: 90°
Horz: 18"
Hole: 18"
Up(_): -1.5"

INVERT: 1
Degree: 90°
Horz: 18"
Hole: 18"
Up(_): -1.5"

INSIDE WALL DIMENSIONS



(P1)

Left Back (24") Right (36") Front

8" 25" EXT

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 25" Height (Ext): 33"	Weight (Net): 3776 lb Volume (Net): 0.96cu.yd
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Job Name: 25-1684P14 KYTC Jefferson Co. Call 200 (251007)
Job Location: I-264 Louisville, Ky.
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, KY
8/6/2026 2:25:42 PM

Tech: J. Coppage
PC: T. Ryan



Structure ID: 5096+43 LT CBBI-MOD B1

P1 BX3648-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

P4) 24" x 120" - CASTING (cast in) - 3"
P3) 24" x 120" - CB MED BAR BOX INLET 9B1 LH - 17"
P2) 36" x 48" - CB FT REDUCER 24"X36" HOLE-FT - 8"
P1) 36" x 48" - BOX BASE 8inW, 8inF, Variable Ht - 41"
1) 36" x 48" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) DOGHOUSE INVRTD - 40"x43"
1) Hole - 34"

Structure Notes:
-KYTC STATE PROJECT 251007
-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)
-CASTING FRAMES & GRATES BY OTHERS.
-CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST).
-KYTC CERTIFICATIONS REQUIRED.

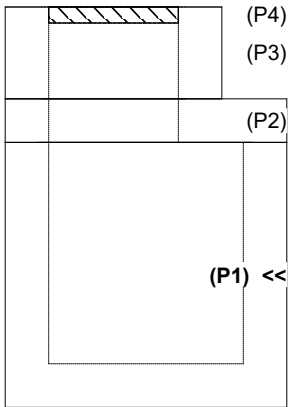
Structure Total: 11744 lb

Rim: 586.09' Rim to Invert: 5.5' Slack: 0" Sump: 0" Step Position:

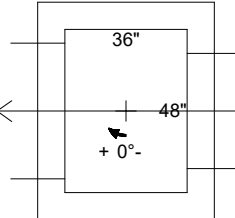
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	580.59'	90°	32"	36" CMP	37"	DOGHOUSE INVRTD 40"x43"	40" x 43"	40"	-2"	0"
Invert 2	580.59'	270°	32"	30" CMP	31"	Hole 34	34"	34"	-2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

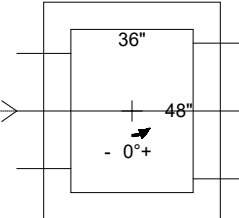


Invert: 1
Degree: 90°
Horz: 24"
Hole: 40" x 43"
Up(): -2"



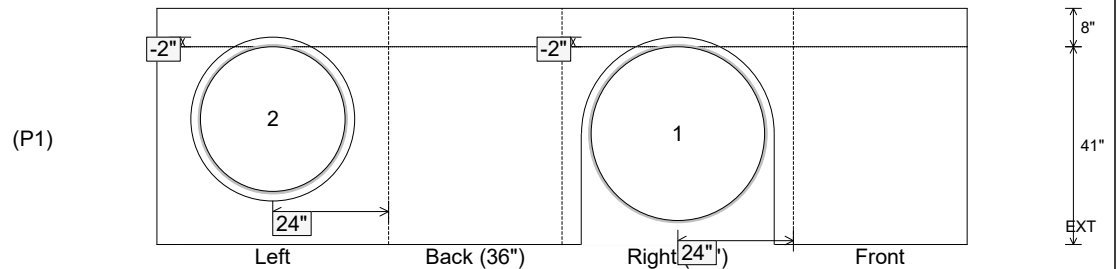
Invert: 2
Degree: 270°
Horz: 24"
Hole: 34"
Up(): -2"

Invert: 2
Degree: 270°
Horz: 24"
Hole: 34"
Up(): -2"



Invert: 1
Degree: 90°
Horz: 24"
Hole: 40" x 43"
Up(): -2"

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

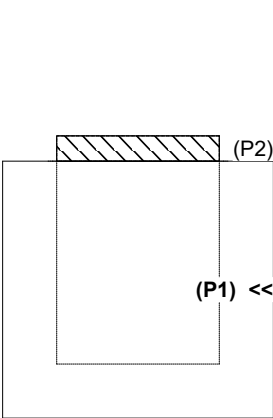
Seam Up: Flat
Seam Dn: n/a

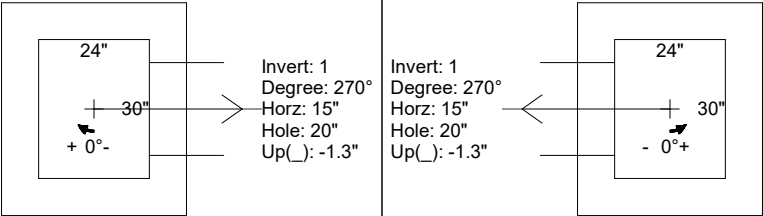
Wall Thickness: 8"
Floor Height: 8"

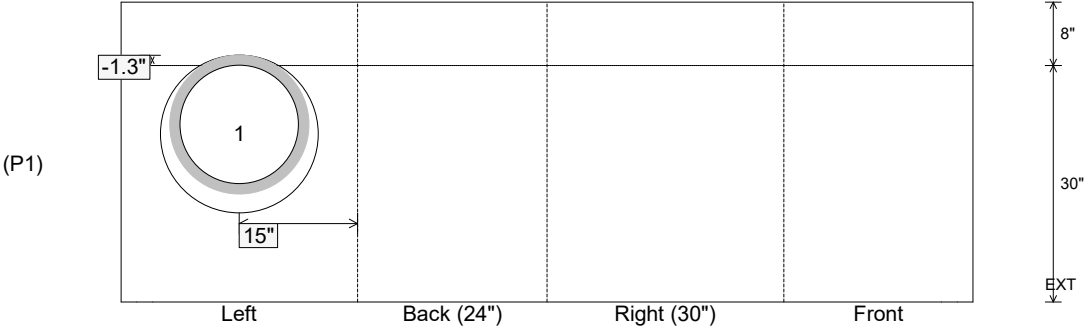
Height (Int): 41"
Height (Ext): 49"

Weight (Net): 6090 lb
Volume (Net): 1.56cu.yd

Job Name: 24-4208 - KYTC Christian Co. Call 100 (ID 241018) Job Location: Hopkinsville, KY Contractor: Scotty's Contracting & Stone, LLC				Plant: Beaver Dam 7/30/2026 8:55:29 AM		Tech: J. Horsley PC: C. Goff				
Structure ID: 246 (428+75 LT)										
P1 BX2430-08BA30				BOX BASE 8inW, 8inF F/n						
P2) 24" x 30" - CASTING HEIGHT - 3.75" P1) 24" x 30" - BOX BASE 8inW, 8inF F/n - 30" 1) CASTING - HOE KY-460-11 F/G (DBI 11) 1) 24" x 30" - Conseal CS-102 1.00" 1) Hole - 20"						0 lb 3844 lb 421 lb 0 lb 0 lb ----- 0 lb Structure Total: 4265 lb		Structure Notes: . **KYTC STATE PROJECT** 1. KYTC DBI TYPE 11 / ASTM C-913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE KY-460-11 F/G). 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: 539.9' Rim to Invert: 2.92' Slack: 1.29' Sump: 0' Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	536.98'	270°	23"	15" HDPE	17.6"	Hole 20	20"	20"	-1.3"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										







Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 30" Height (Ext): 38"	Weight (Net): 3844 lb Volume (Net): 0.98cu.yd
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Coating (Int):	Seam Up: Flat	Wall Thickness: 8"	Height (Ext): 17"	Weight (Net): 4000 lb
Coating (Ext):	Seam Dn: Flat			Volume (Net): 0cu.yd

Arcadia™ Hydrodynamic Separator Installation Guide

Concrete Manhole Installation

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

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

Content

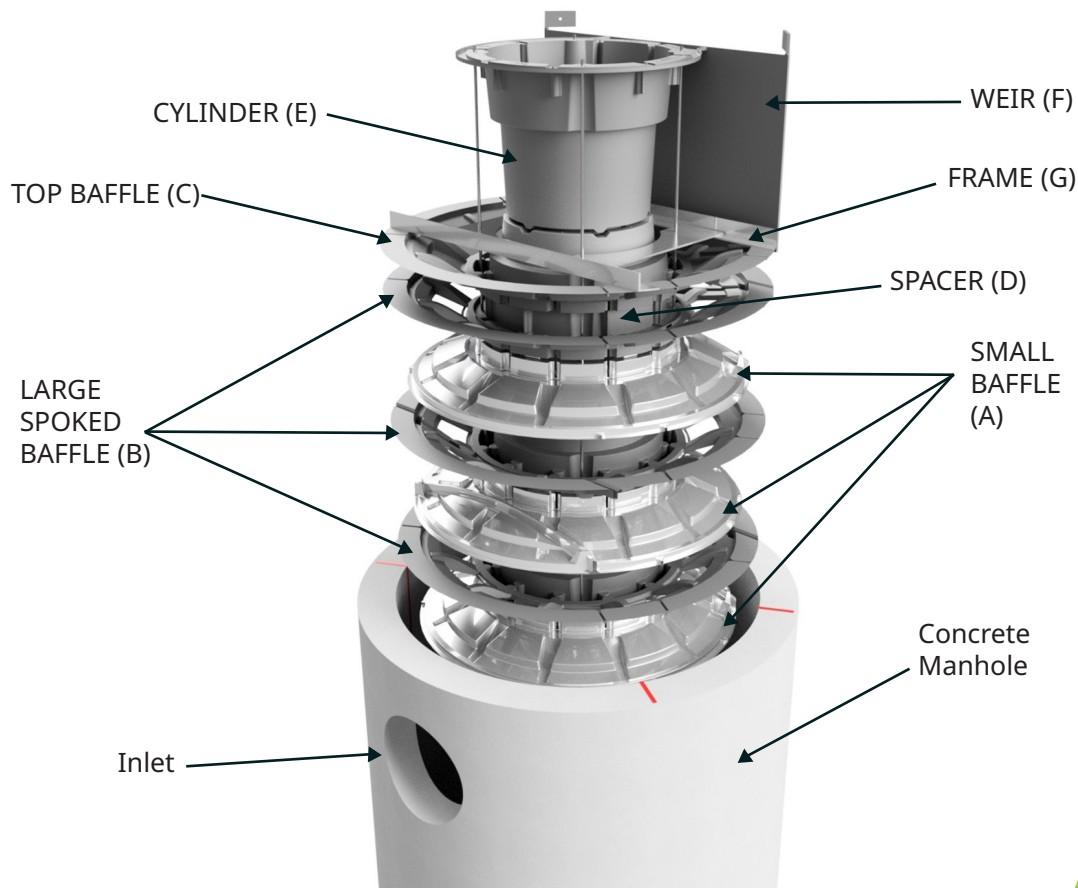
Section 1: Internal Components, Hardware & Tools

Section 2: Assembling Internal Components

Section 3: Mounting Brackets within Concrete Manhole Riser

Section 4: Transporting Assembled Arcadia Internals

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



Section 1: Internal Components, Hardware and Tools



SMALL BAFFLE (A) Qty: 3



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



TOP BAFFLE (C) Qty: 1



SPACER (D) Qty: 1



CYLINDER (E) Qty: 1



WEIR (F) Qty: 1



FRAME (G) Qty: 1

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

Hardware Provided by ADS



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



**Washers
Qty: 12**



**Nuts
Qty: 12**



**Threaded
Coupling
Qty: 4**



Screws



**Bolts for frame
Assembly**



**Rod Caps
Qty: 4**



**Threadlocker
Capsules
Qty: 2**

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

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

Other Tools Needed

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

Section 2: Assembling Internal Components

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

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

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

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

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

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

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

Scan the QR Code
to watch the
Arcadia
installation video



Figure 1

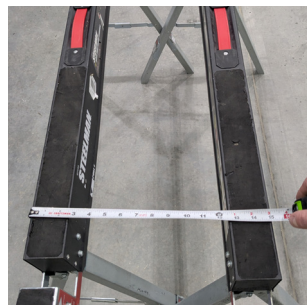


Figure 2



Figure 3



Figure 4



Figure 5

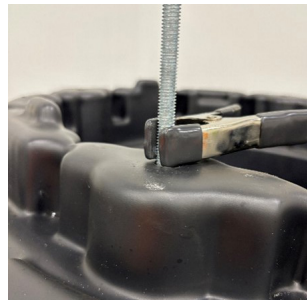


Figure 6



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

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

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

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

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

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

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

Figure 7



Figure 8

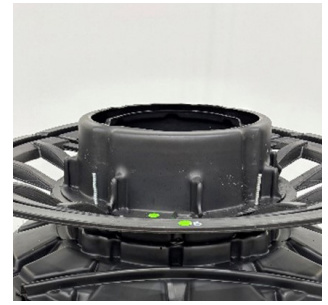


Figure 9



Figure 10



Figure 11



Figure 12

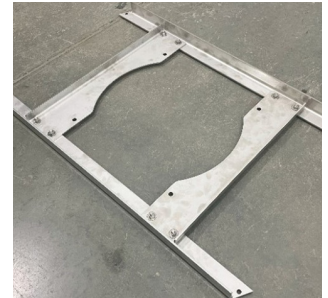


Figure 13

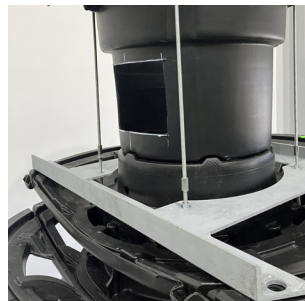


Figure 14



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

Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Section 3: Mounting Brackets within Concrete Manhole Riser

Materials provided by ADS

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

Other Tools Needed

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

Figure 22

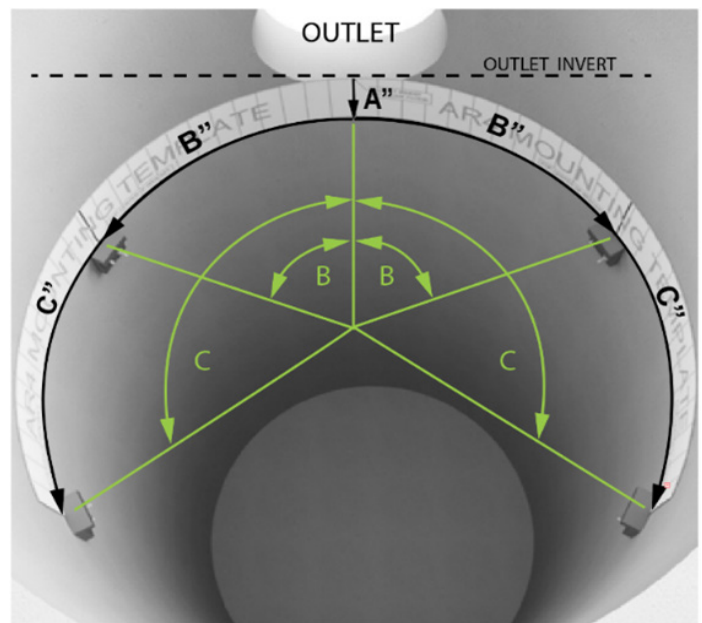


Table 1: Angular Measurements

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

Table 2: Linear Measurements

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

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

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

Figure 23



Figure 24



Figure 25

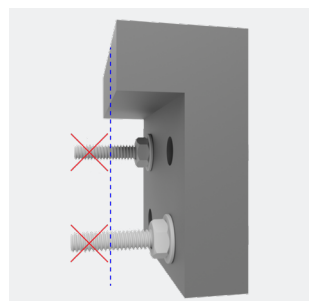
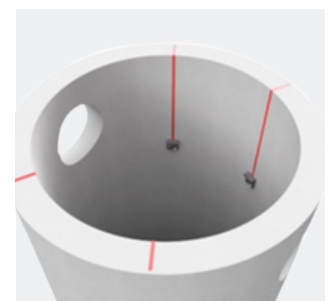


Figure 26



Section 4: Transporting Assembled Arcadia Internals

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

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

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

Figure 27



Figure 28



Figure 29



Figure 30



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

- Small hardware package marked “Arcadia Installation, For Jobsite Contractor (NOT FOR PRECASTER)”
- Con Seal roll(s)
- Copy of the Installation Guide

Transporting without a concrete riser?
Contact ADS for guidance.

Table 4: Arcadia Separator Internals Weight Once Assembled

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

Section 5: Installing Arcadia Internals into the Manhole

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

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

Materials provided by ADS

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

Other Tools Needed

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

Figure 31



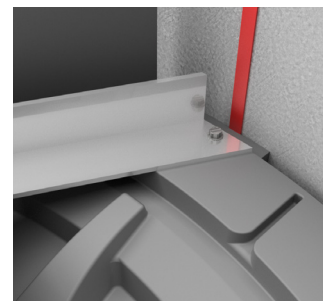
Figure 32



Figure 33



Figure 34



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

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

Figure 35

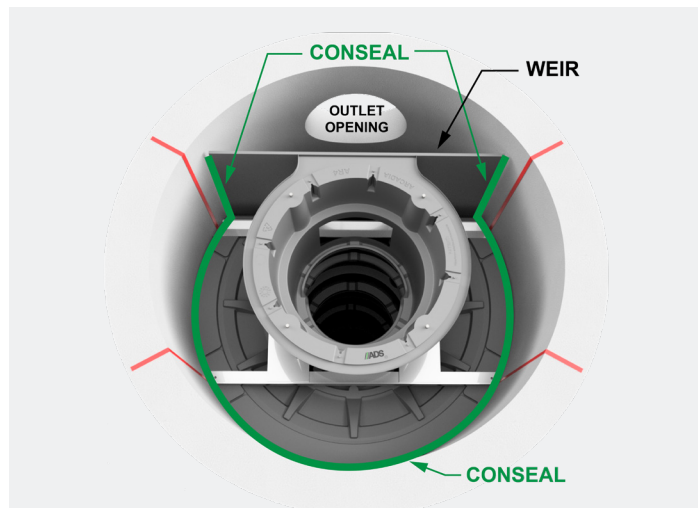


Figure 36

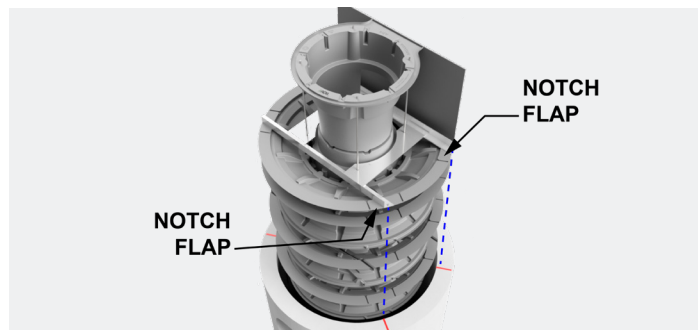


Figure 37

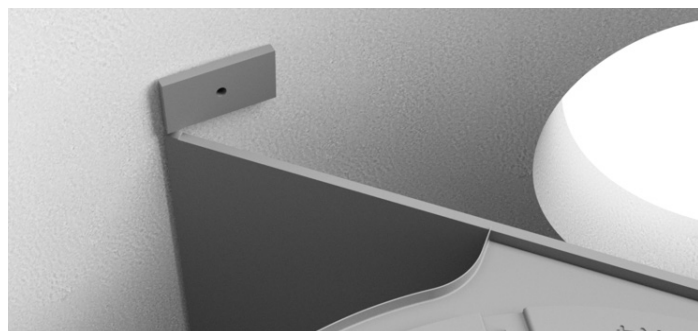
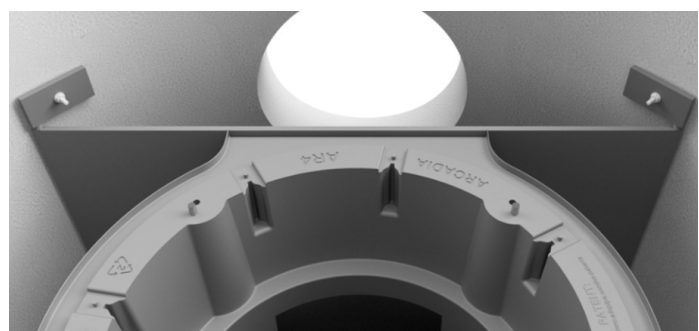


Figure 38



Arcadia™ Hydrodynamic Separator Installation Guide

Concrete Manhole Installation

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

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

Content

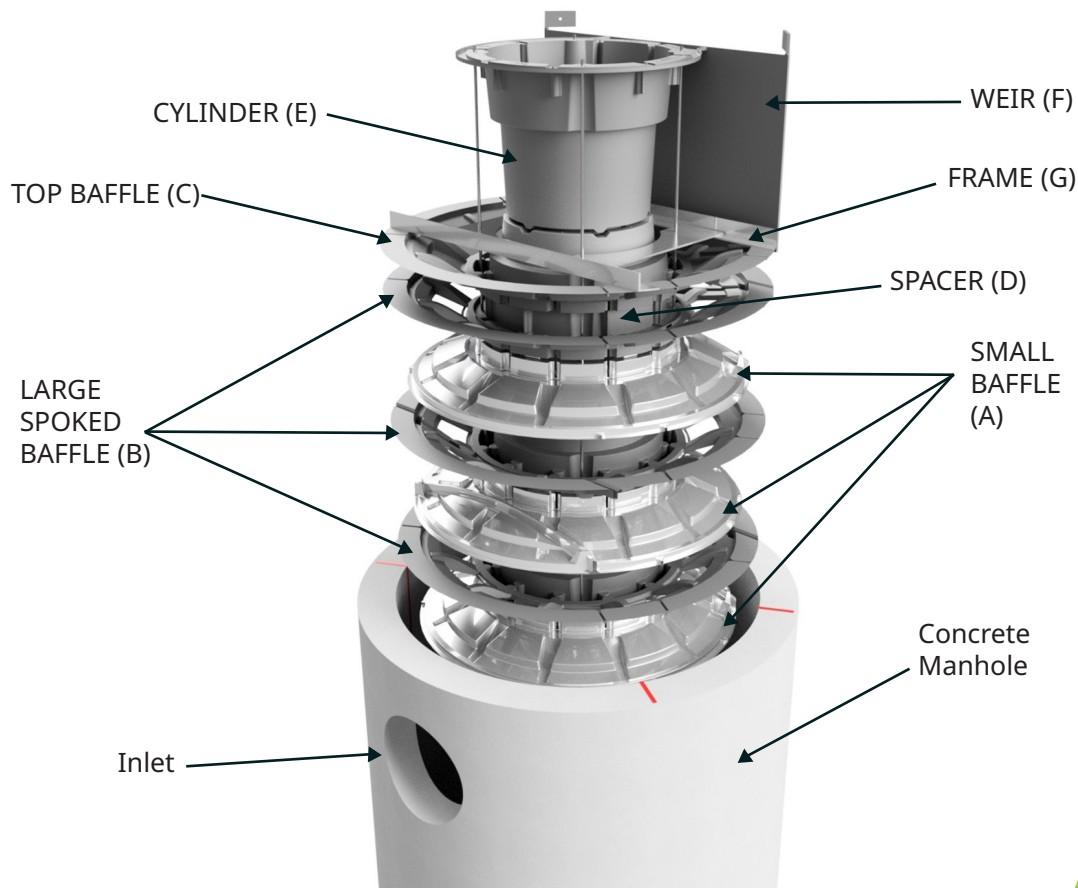
Section 1: Internal Components, Hardware & Tools

Section 2: Assembling Internal Components

Section 3: Mounting Brackets within Concrete Manhole Riser

Section 4: Transporting Assembled Arcadia Internals

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



Section 1: Internal Components, Hardware and Tools



SMALL BAFFLE (A) Qty: 3



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



TOP BAFFLE (C) Qty: 1



SPACER (D) Qty: 1



CYLINDER (E) Qty: 1



WEIR (F) Qty: 1



FRAME (G) Qty: 1

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

Hardware Provided by ADS



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



**Washers
Qty: 12**



**Nuts
Qty: 12**



**Threaded
Coupling
Qty: 4**



Screws



**Bolts for frame
Assembly**



**Rod Caps
Qty: 4**



**Threadlocker
Capsules
Qty: 2**

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

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

Other Tools Needed

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

Section 2: Assembling Internal Components

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

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

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

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

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

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

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

Scan the QR Code
to watch the
Arcadia
installation video



Figure 1

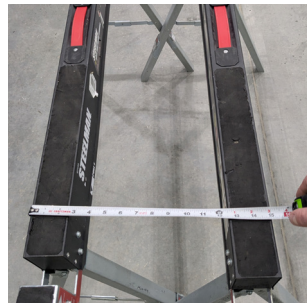


Figure 2



Figure 3



Figure 4



Figure 5

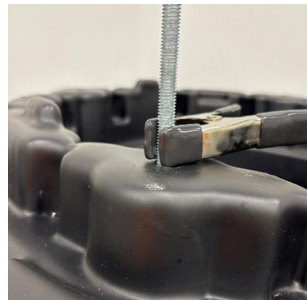


Figure 6



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

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

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

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

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

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

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

Figure 7



Figure 8

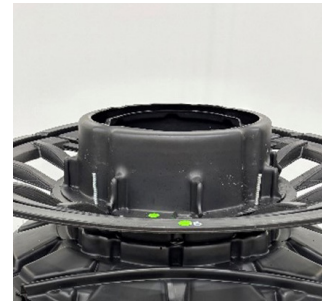


Figure 9



Figure 10



Figure 11



Figure 12

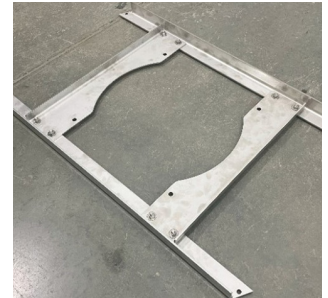


Figure 13

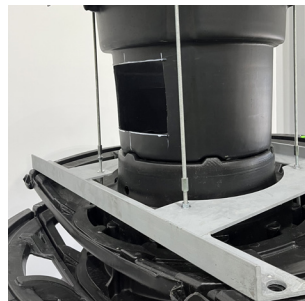


Figure 14



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

Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Section 3: Mounting Brackets within Concrete Manhole Riser

Materials provided by ADS

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

Other Tools Needed

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

Figure 22

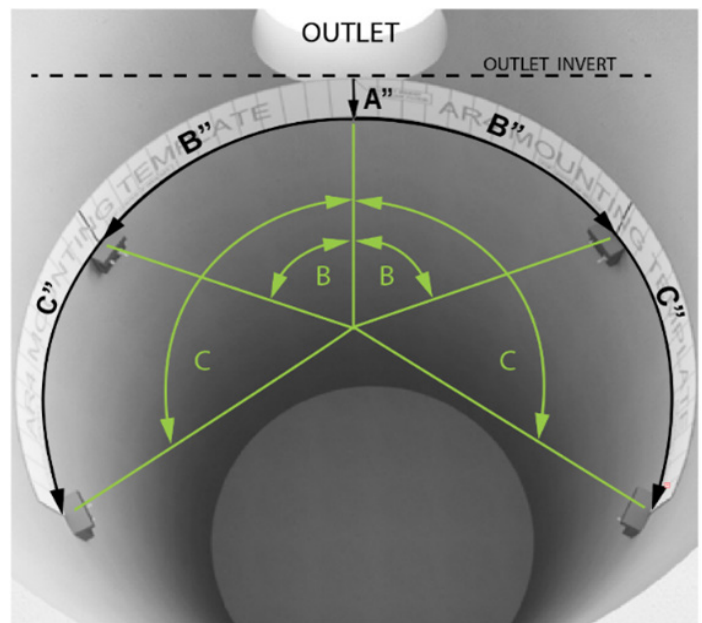


Table 1: Angular Measurements

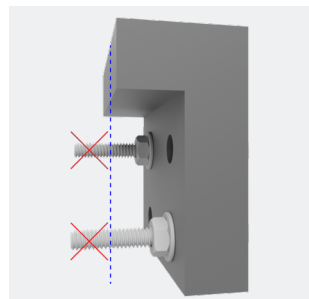
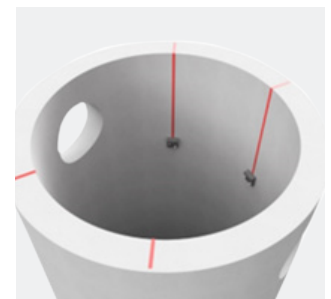
Arcadia Model	A. Depth from Outlet Invert in (mm)	B. Angle from Outlet Center	C. Angle from Outlet Center
AR3	4 1/2 (114.3)	65°	115°
AR4	5 1/2 (139.7)	60°	120°
AR5	6 (150)	65°	115°
AR6	6 1/2 (165.1)	60°	120°
AR8	8 (200)	60°	120°

Table 2: Linear Measurements

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

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

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

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

Section 4: Transporting Assembled Arcadia Internals

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

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

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

Figure 27



Figure 28



Figure 29



Figure 30



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

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

Transporting without a concrete riser?
Contact ADS for guidance.

Table 4: Arcadia Separator Internals Weight Once Assembled

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

Section 5: Installing Arcadia Internals into the Manhole

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

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

Materials provided by ADS

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

Other Tools Needed

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

Figure 31



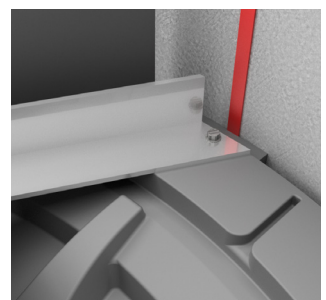
Figure 32



Figure 33



Figure 34



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

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

Figure 35

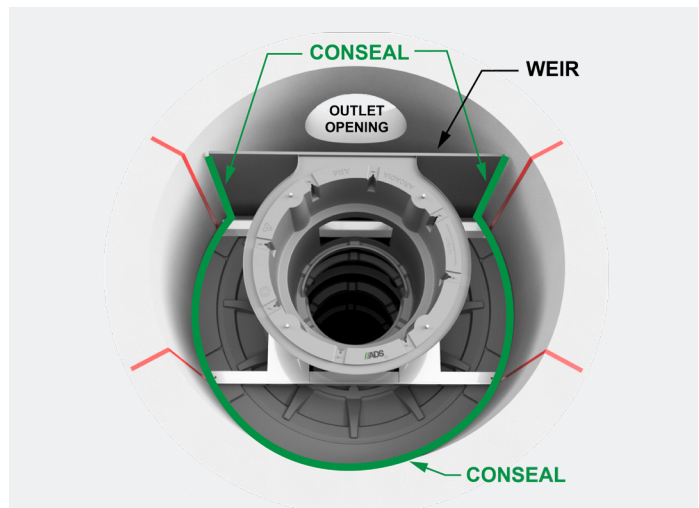


Figure 36

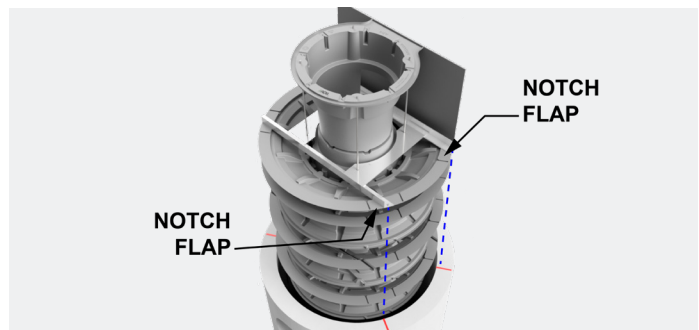


Figure 37

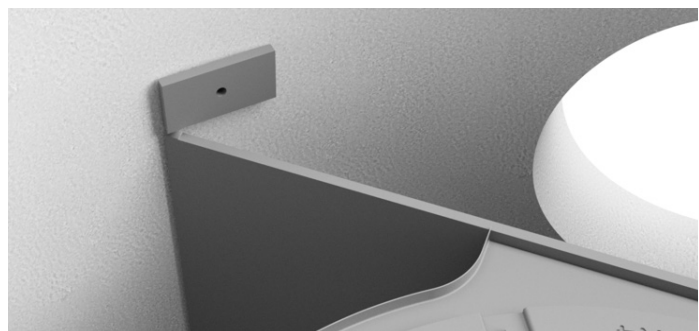
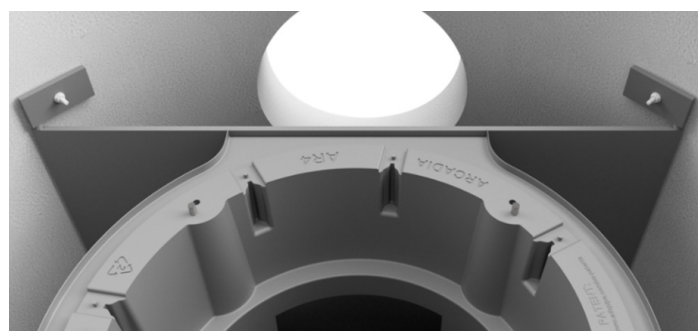


Figure 38



Job Name: 25-4490P2 Heartland Meadows Subdivision
Job Location: Elizabethtown, KY 40165
Contractor: Kauffeld Brothers Construction

Plant: 100

7/30/2026 10:24:48 AM

Tech: Jared - A
PC: Celina Goff



Structure ID: CB 4-48 (53)

P2 BX036036-08LD08-24x36

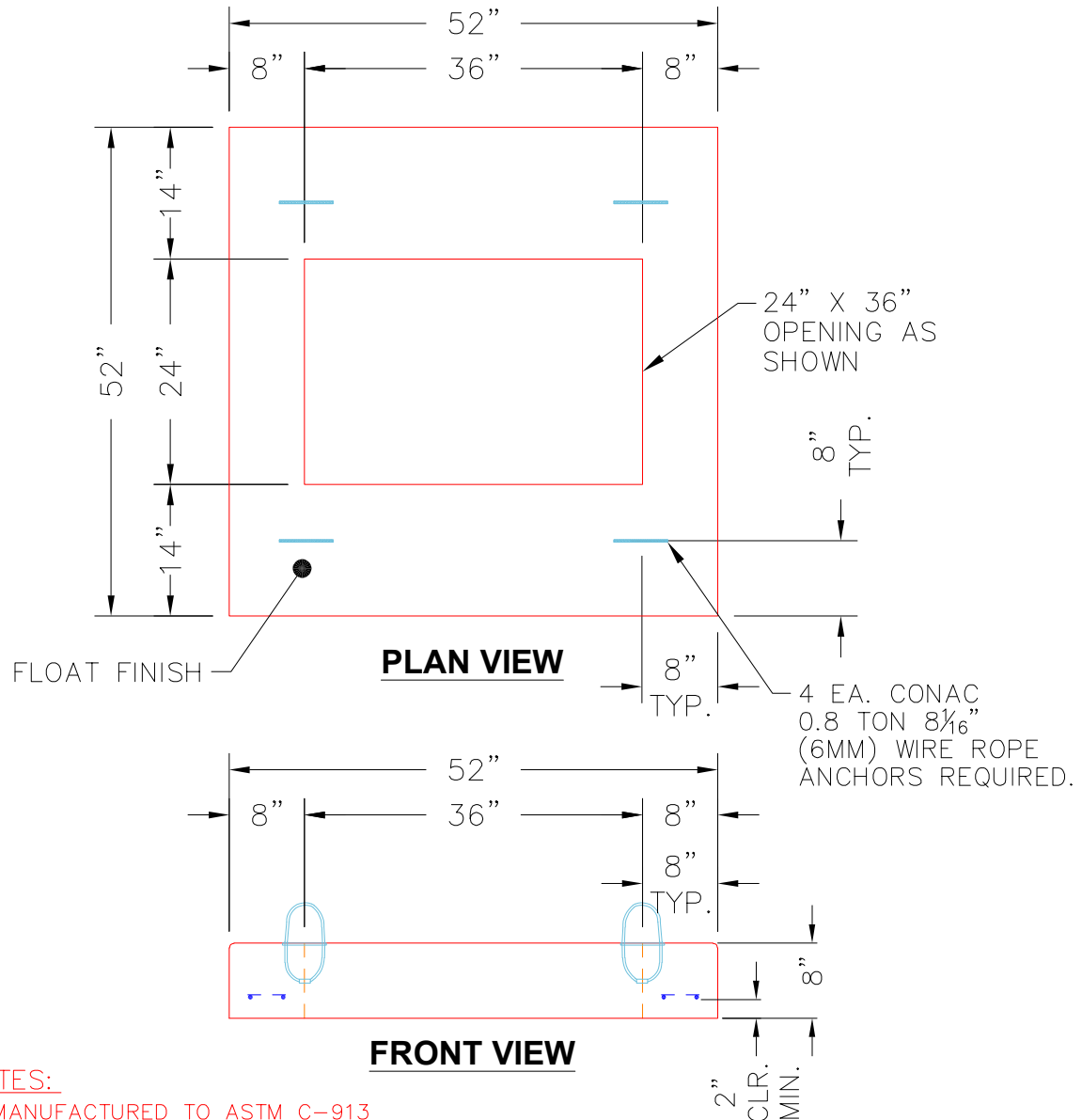
CB FLAT TOP 8"W w/24"x36" HOLE

P3) 24" x 36" - CASTING HEIGHT - 6"
P2) 36" x 36" - CB FLAT TOP 8"W w/24"x36" HOLE - 8"
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 46"
1) CASTING - HOE 470 SET LV (F/G/H)
1) 36" x 36" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 30
1) Hole - 24

0 lb
1235 lb
6472 lb
394 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 8101 lb

Structure Notes:
1. HOE 470 FLAT SET PROVIDED BY ICAST.
2. PER ASTM C913 SPECIFICATIONS.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. 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.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.



NOTES:

1. MANUFACTURED TO ASTM C-913 (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: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 1235 lb
Volume (Net): 0.32cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:16 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 2-62050-2

P1 CVBS

BX Separate Base Slab

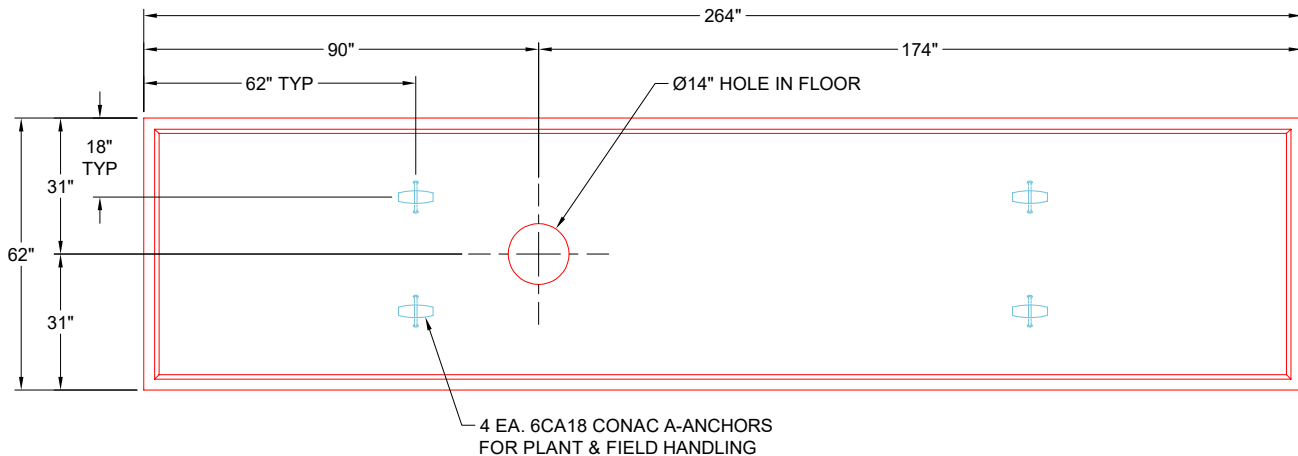
P3) 50" x 252" - CASTING HEIGHT - 0"
P2) 50" x 252" - BOX RISER 6inW, Variable Ht - 28"
P1) 50" x 252" - BX Separate Base Slab - 6"
2) 50" x 252" - Conseal CS-102 1.00"

Structure Total: 17043 lb

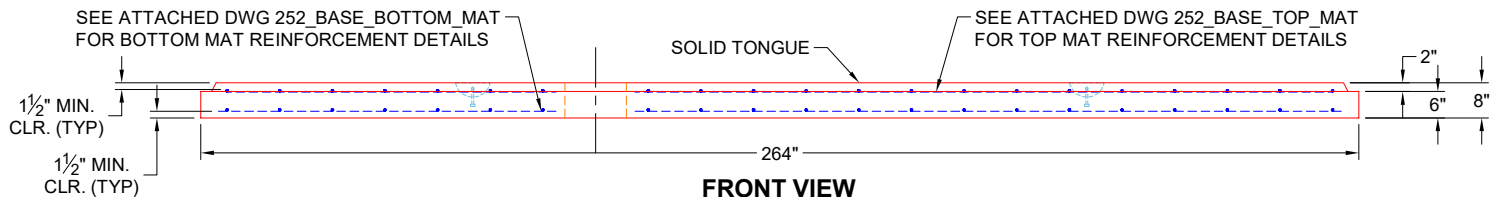
Structure Notes:
A) PER ASTM C913.
B) CONCRETE = 4,500 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT - MIN. 1½" REBAR
CLEARANCE:
- TOP MAT: PER ATTACHED DWG 252_BASE_TOP_MAT
- BOTTOM MAT: PER ATTACHED DWG 252_BASE_BOTTOM_MAT
4. WEIGHTS: 8,241 LBS



PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 6"

Height (Int): 0"
Height (Ext): 0"

Weight (Net): 8241 lb
Volume (Net): 2.1cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:16 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 2-62050-2

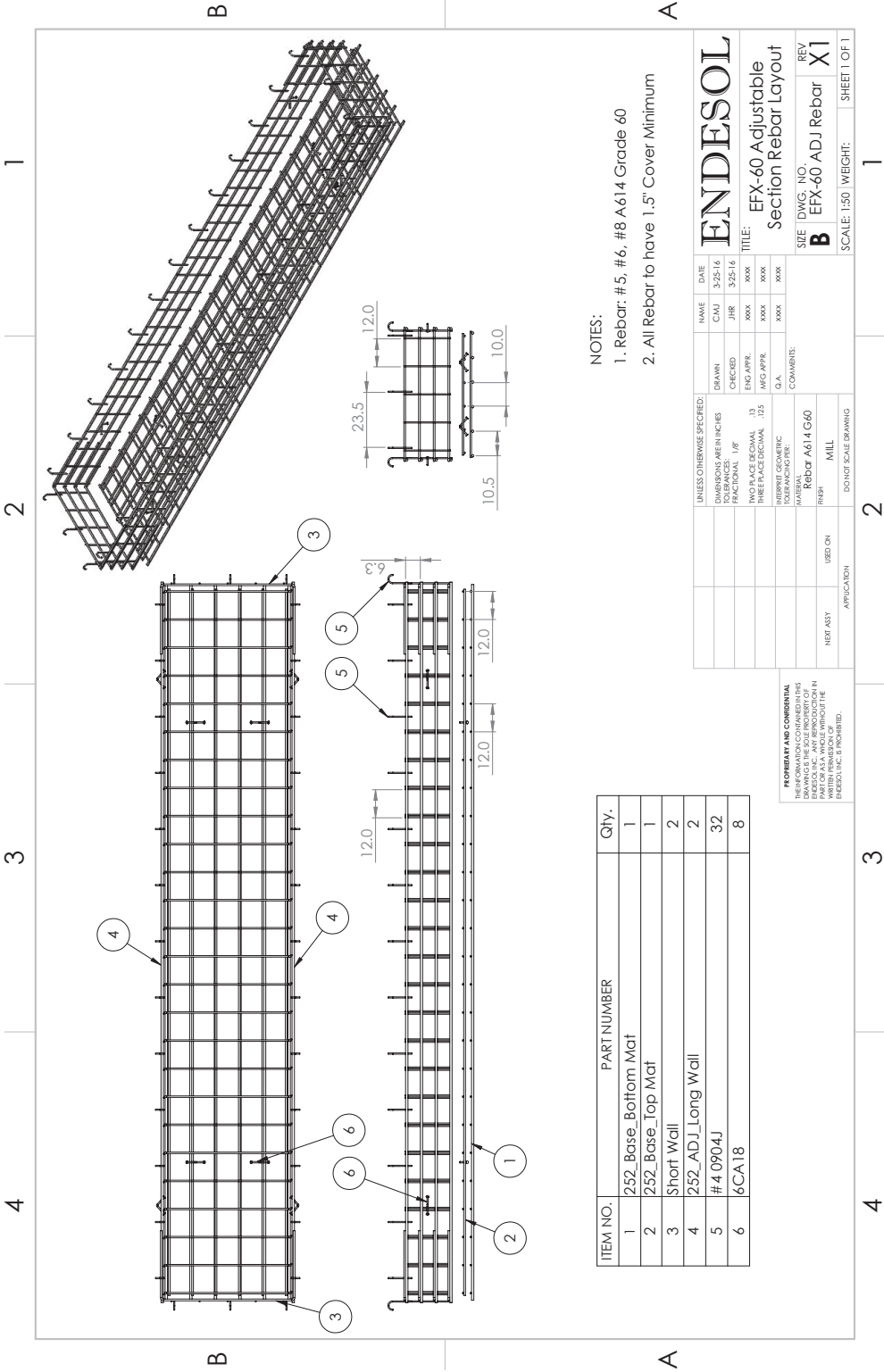
P1 CVBS

BX Separate Base Slab

- P3) 50" x 252" - CASTING HEIGHT - 0"
P2) 50" x 252" - BOX RISER 6inW, Variable Ht - 28"
P1) 50" x 252" - BX Separate Base Slab - 6"
2) 50" x 252" - Conseal CS-102 1.00"

Structure Notes:
A) PER ASTM C913.
B) CONCRETE = 4,500 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

Structure Total: 17043 lb



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

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		CAJ	5/25/16
FRACTIONAL 1/8"		JHR	5/25/16
TWO PLACE DECIMAL		XXX	XXX
THREE PLACE DECIMAL		XXX	XXX
INHERENT GEOMETRIC TOLERANCES		XXX	XXX
TOLERANCES		XXX	XXX
REBAR A614 G60		XXX	XXX
MILL		XXX	XXX
DO NOT SCALE DRAWING		XXX	XXX
USED ON		XXX	XXX
APPLICATION		XXX	XXX
SCALE: 1:50		XXX	XXX
WEIGHT:		XXX	XXX
SHEET 1 OF 1		XXX	XXX

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

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PROJECT AND NOT BE REPRODUCED IN
PART OR AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF ENDSOL.
REVISED LINES IS FORBIDDEN.

Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 6"

Height (Int): 0"
Height (Ext): 0"

Weight (Net): 8241 lb
Volume (Net): 2.1cu.yd



Weight (Net): 8241 lb
Volume (Net): 2.1cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:16 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 2-62050-2

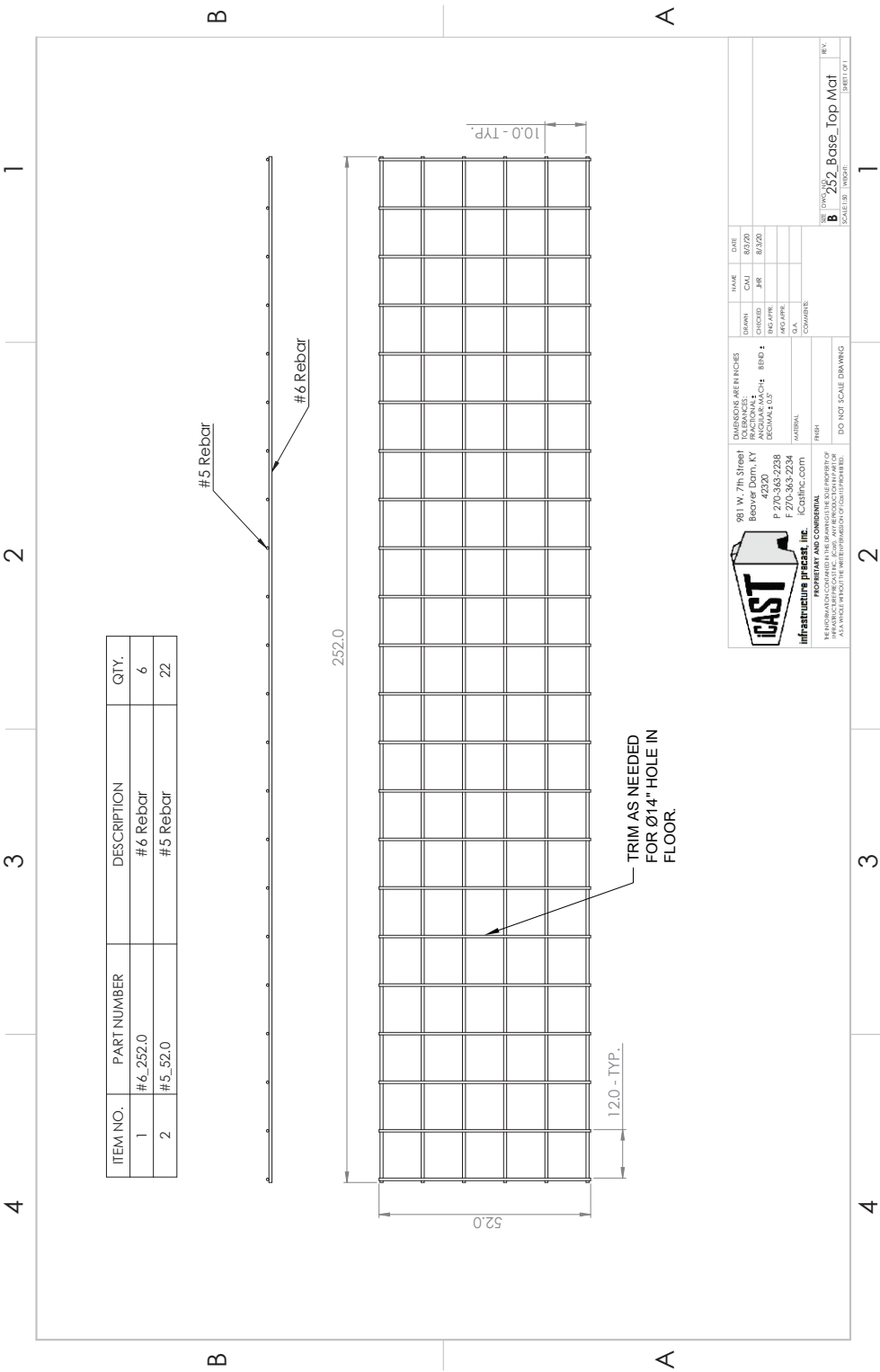
P1 CVBS

BX Separate Base Slab

- P3) 50" x 252" - CASTING HEIGHT - 0"
P2) 50" x 252" - BOX RISER 6inW, Variable Ht - 28"
P1) 50" x 252" - BX Separate Base Slab - 6"
2) 50" x 252" - Conseal CS-102 1.00"

Structure Notes: .
A) PER ASTM C913.
B) CONCRETE = 4,500 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

Structure Total: 17043 lb



981 W. 7th Street Beverly Hills, KY 40301 P 270-363-2238 F 270-363-2234 ICasting.com		DATE 8/17/20	NAME CAJ	DATE 8/17/20	REVISIONS 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0 31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0 40.0 41.0 42.0 43.0 44.0 45.0 46.0 47.0 48.0 49.0 50.0 51.0 52.0 53.0 54.0 55.0 56.0 57.0 58.0 59.0 60.0 61.0 62.0 63.0 64.0 65.0 66.0 67.0 68.0 69.0 70.0 71.0 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0 81.0 82.0 83.0 84.0 85.0 86.0 87.0 88.0 89.0 90.0 91.0 92.0 93.0 94.0 95.0 96.0 97.0 98.0 99.0 100.0
---	--	-----------------	-------------	-----------------	---

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 0" Height (Ext): 0"	Weight (Net): 8241 lb Volume (Net): 2.1cu.yd
----------------------------------	---------------------------------	--	--------------------------------------	---

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:37 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 2-62050-2

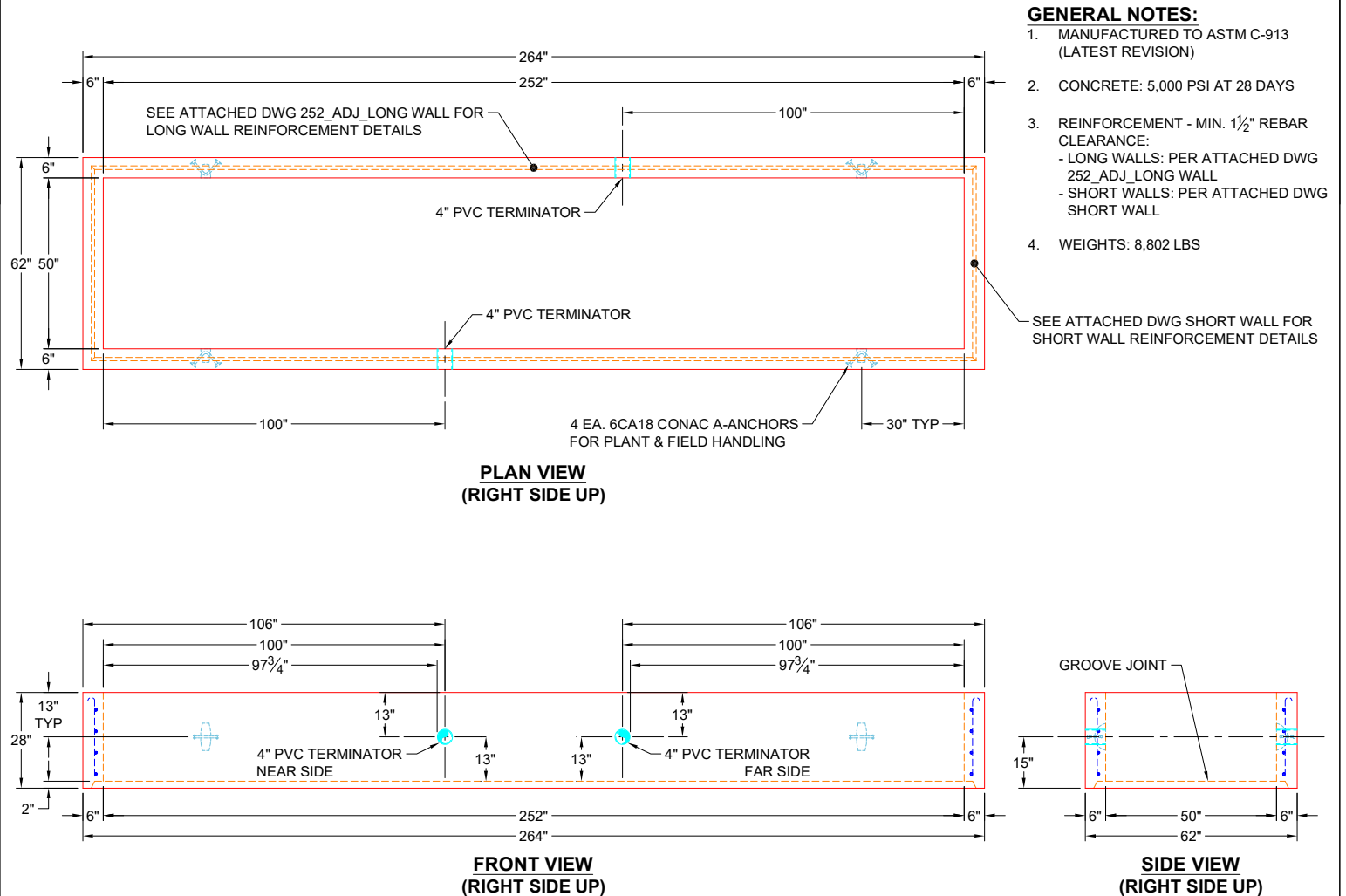
P2 CVR

BOX RISER 6inW, Variable Ht

P3) 50" x 252" - CASTING HEIGHT - 0"
P2) 50" x 252" - BOX RISER 6inW, Variable Ht - 28"
P1) 50" x 252" - BX Separate Base Slab - 6"
2) 50" x 252" - Conseal CS-102 1.00"

Structure Total: 17043 lb

Structure Notes: .
A) PER ASTM C913.
B) CONCRETE = 4,500 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 6" Floor Height: 0"	Height (Int): 28" Height (Ext): 28"	Weight (Net): 8802 lb Volume (Net): 2.25cu.yd
----------------------------------	----------------------------------	--	--	--



Structure Total:

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ENDRESCOL INC., ANY REPRODUCTION IN
PART OR AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF
ENDRESCOL INC. IS PROHIBITED.

Weight (Net): 8802 lb
Volume (Net): 2.25cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:37 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 2-62050-2

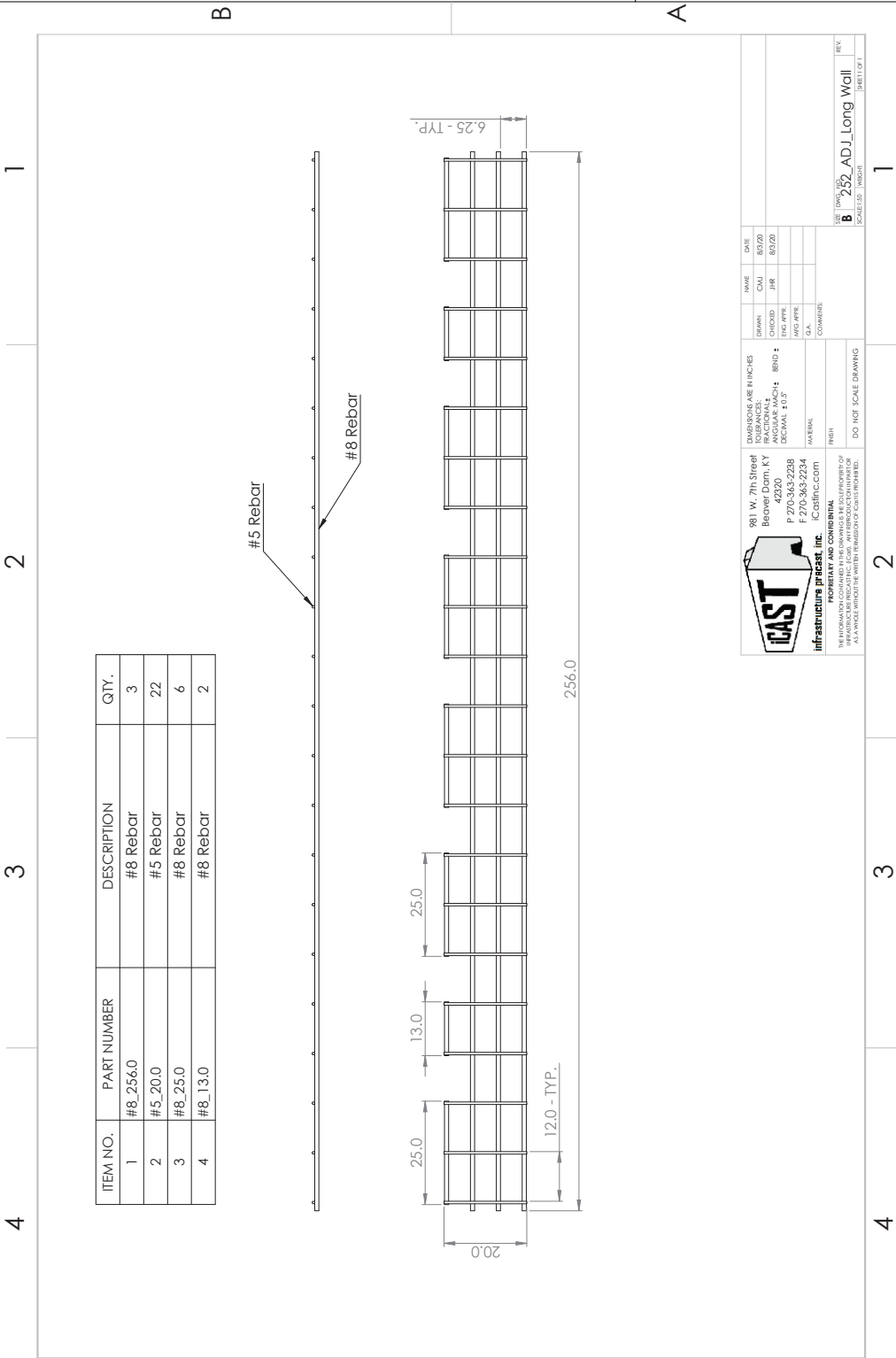
P2 CVR

BOX RISER 6inW, Variable Ht

- P3) 50" x 252" - CASTING HEIGHT - 0"
P2) 50" x 252" - BOX RISER 6inW, Variable Ht - 28"
P1) 50" x 252" - BX Separate Base Slab - 6"
2) 50" x 252" - Conseal CS-102 1.00"

Structure Notes: .
A) PER ASTM C913.
B) CONCRETE = 4,500 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

Structure Total: 17043 lb



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"
Floor Height: 0"

Height (Int): 28"
Height (Ext): 28"

Weight (Net): 8802 lb
Volume (Net): 2.25cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:37 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 2-62050-2

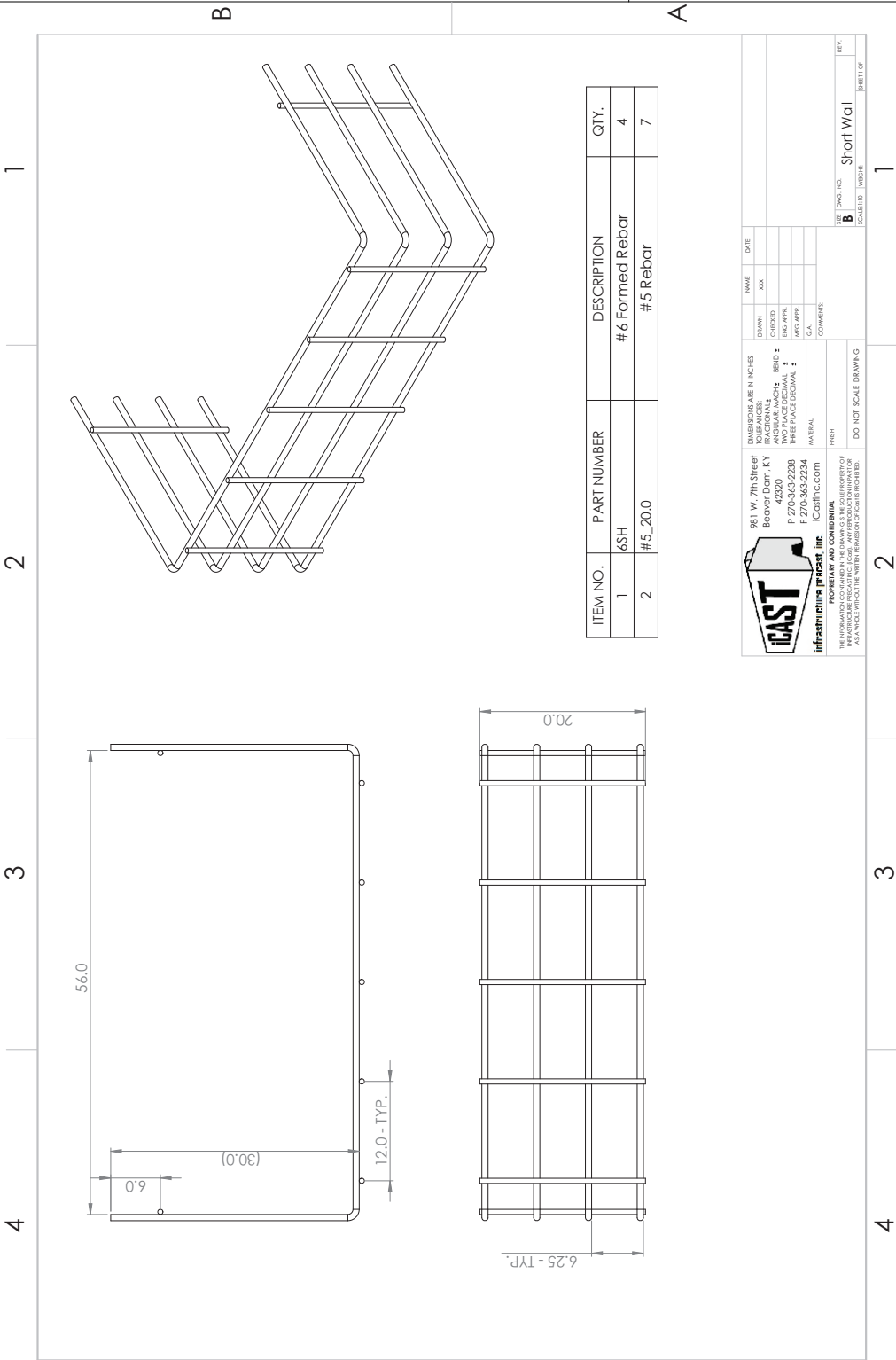
P2 CVR

BOX RISER 6inW, Variable Ht

- P3) 50" x 252" - CASTING HEIGHT - 0"
P2) 50" x 252" - BOX RISER 6inW, Variable Ht - 28"
P1) 50" x 252" - BX Separate Base Slab - 6"
2) 50" x 252" - Conseal CS-102 1.00"

Structure Notes: .
A) PER ASTM C913.
B) CONCRETE = 4,500 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

Structure Total: 17043 lb



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"
Floor Height: 0"

Height (Int): 28"
Height (Ext): 28"

Weight (Net): 8802 lb
Volume (Net): 2.25cu.yd

Job Name: 26-1333B Mitchell Hill Road Project
Job Location: Louisville, KY
Contractor: Hall Contracting of Kentucky Inc

Plant: Beaver Dam
8/13/2026 3:43:05 PM

Tech: S. Felletter
PC: J. Jarvis



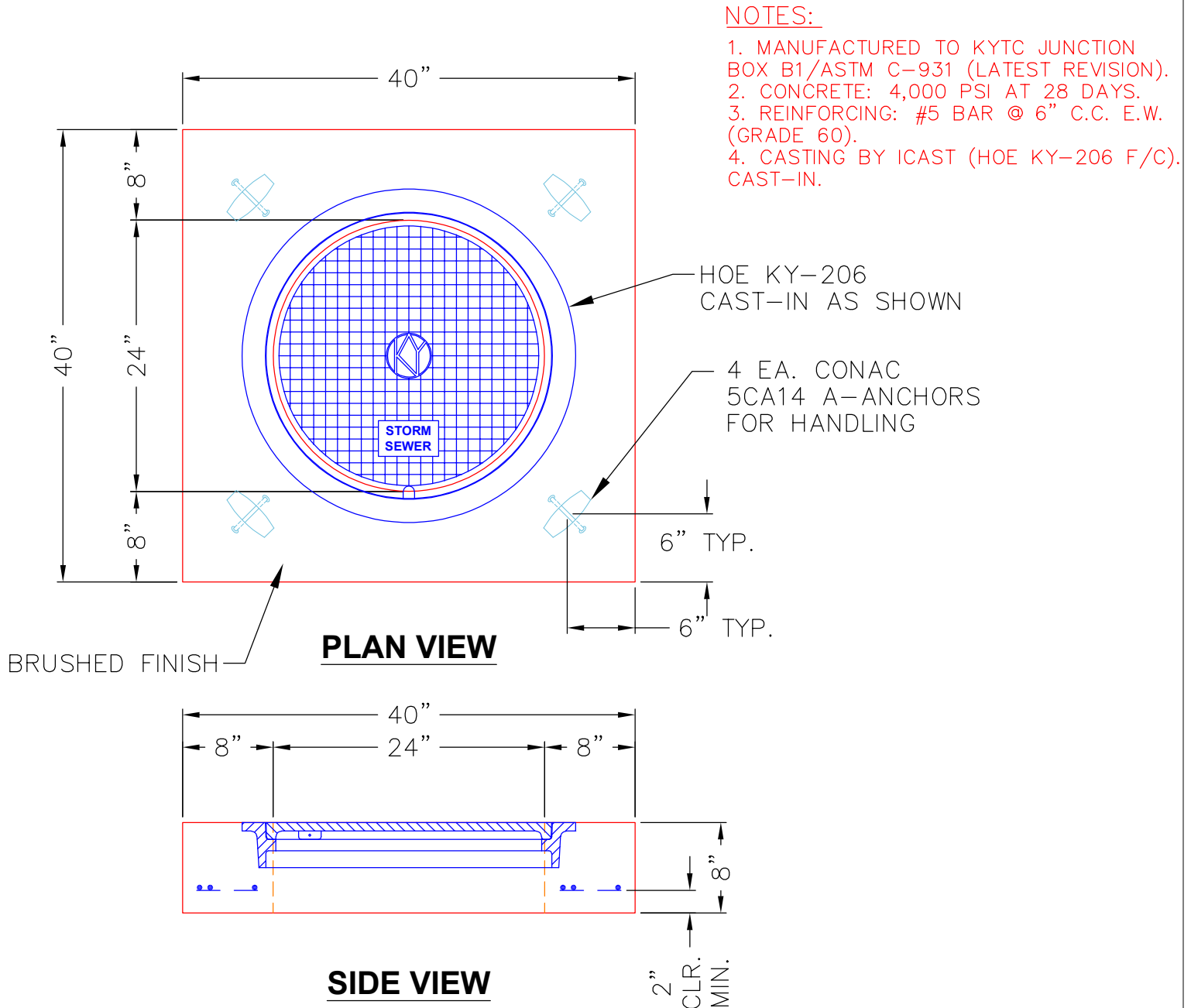
Structure ID: STR-3

P2 BX024024-08LD08S

BX FLAT LID 8inW SPEC. (KY JB-B1) F/F

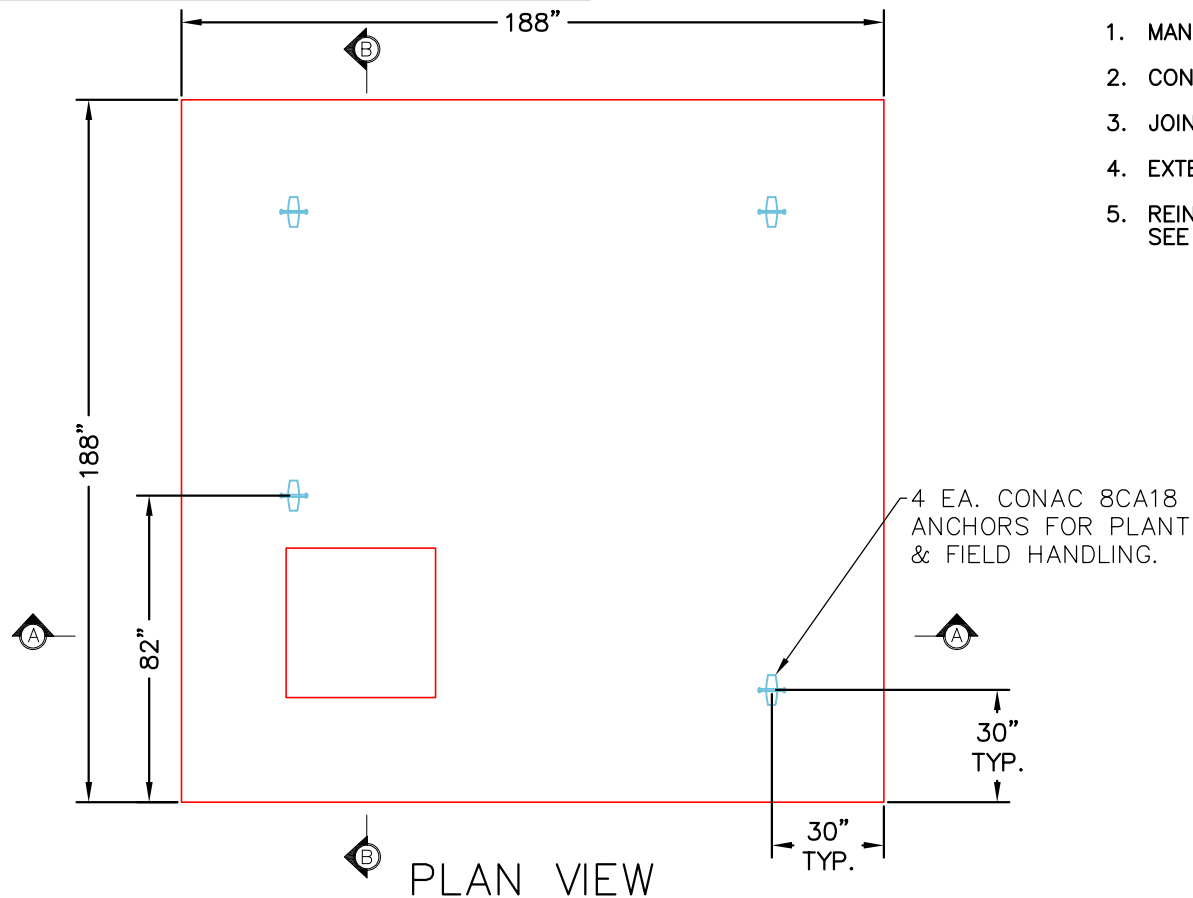
- P3) CASTING (cast in) - 0
P2) 24" x 24" - BX FLAT LID 8inW SPEC. (KY JB-B1) F/F - 8"
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 44"
1) CASTING - HOE KY-206 F/C (KY TY1)
1) This Structure Includes a Cast-in Item
1) 24" x 24" - SGL 1"x14.5' Butyl
1) Hole - 22
1) Hole - 20

	0 lb	Structure Notes:
	770 lb	1. KYTC JUNCTION BOX B1 / PER ASTM C913 SPEC'S.
	4389 lb	2. CONCRETE = 4,000 PSI AT 28 DAYS.
	206 lb	3. TOP SLAB w KYTC TYPE 1 F/C CAST FLUSH.
	0 lb	4. CASTING BY ICAST (HOE KY-206 F/C). CAST-IN.
	0 lb	
	0 lb	REINFORCING PER ASTM A615 (GRADE 60).
	0 lb	- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
Structure Total:	5365 lb	- WALLS (As .31) #5 BARS AT 12" C.C.E.W.
		- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



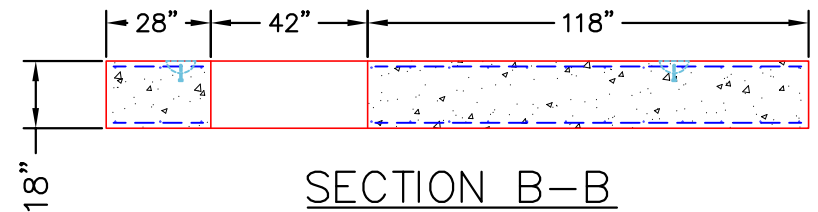
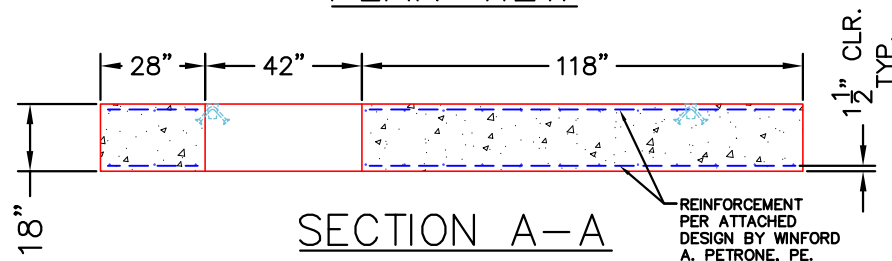
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 8"	Height (Ext): 8"	Weight (Net): 770 lb Volume (Net): 0.2cu.yd
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THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR.



STRUCTURE NOTES:

1. MANUFACTURED PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 5,000 PSI AT 28 DAYS.
3. JOINT SEALANT - CONSEAL CS-231.
4. EXTERIOR JOINT WRAP - CONSEAL CS-212 & CS-75.
5. REINFORCING PER ASTM A615 (GRADE 60) EPOXY COATED. SEE ATTACHED DESIGN BY WINFORD A. PETRONE, PE



PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

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

PRODUCT I.D.: CBS

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY.

WEIGHT: 50,720 LBS.

TOP JOINT: FLAT

BOTTOM JOINT: N/A

QC CHECK INITIALS:

DESCRIPTION: 132" X 132" X 18" THICK SEPARATE EXT. BASE SLAB

CUSTOMER: CLEARY CONSTRUCTION INC

PROJECT: UK BP9 SITE THERMAL AND ELECTRIC UTILITIES

STRUCTURE: VAULT 3

SALES ORDER/QUOTE NO: 25-2504

PC: C. GOFF

DRAWING: S. FELLETER

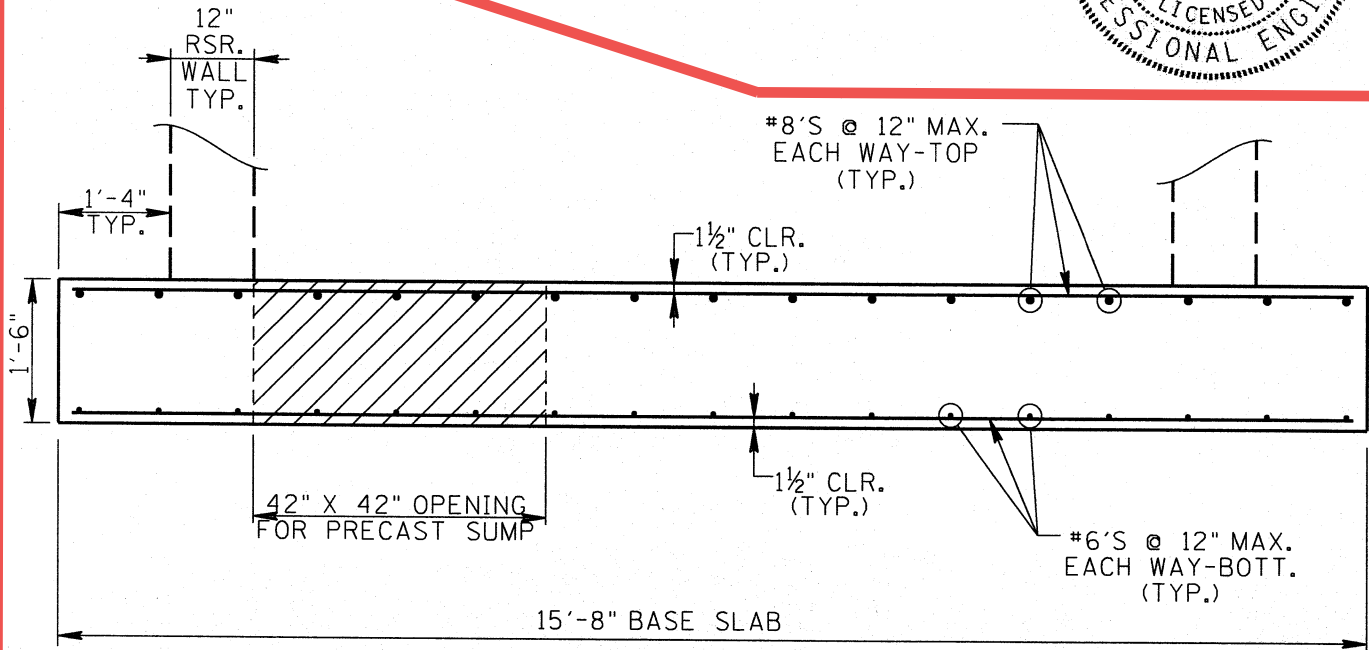
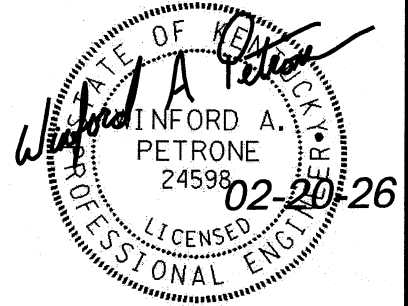
DATE: 07/30/26

SCALE: NTS

PG. 1 of 1

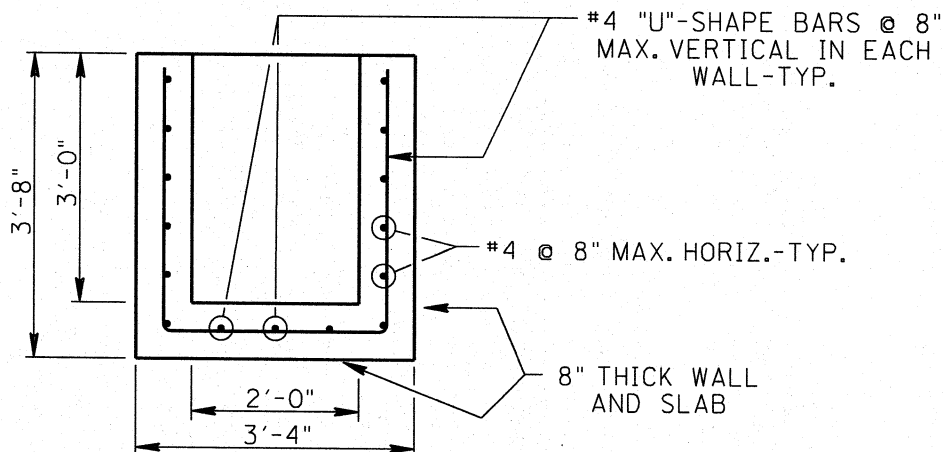
NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



TYPICAL BASE SLAB SECTION
SHOWING REINFORCEMENT

NOTE: STOP SCHEDULED REINFORCEMENT 2" CLEAR OF SUMP OPENING AND PROVIDE ADDITIONAL 2-#8X8'-0" @ 3" CC AT TOP OF SLAB, AND 2-#6X6'-0" @ 3" CC AT BOTTOM OF SLAB ADJACENT TO SUMP OPENING.



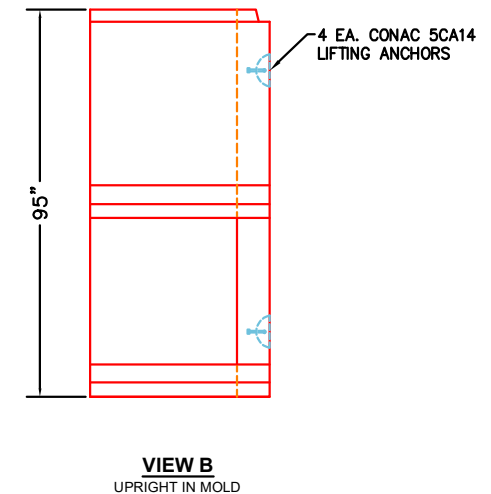
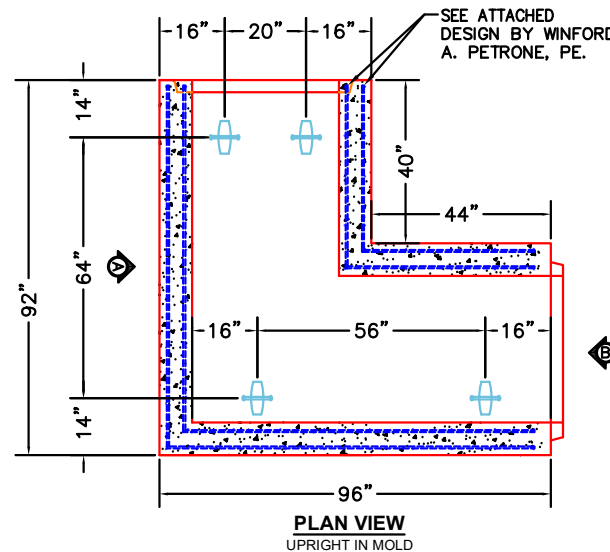
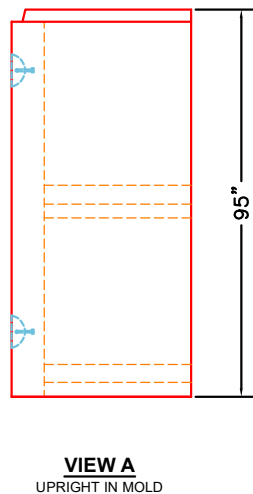
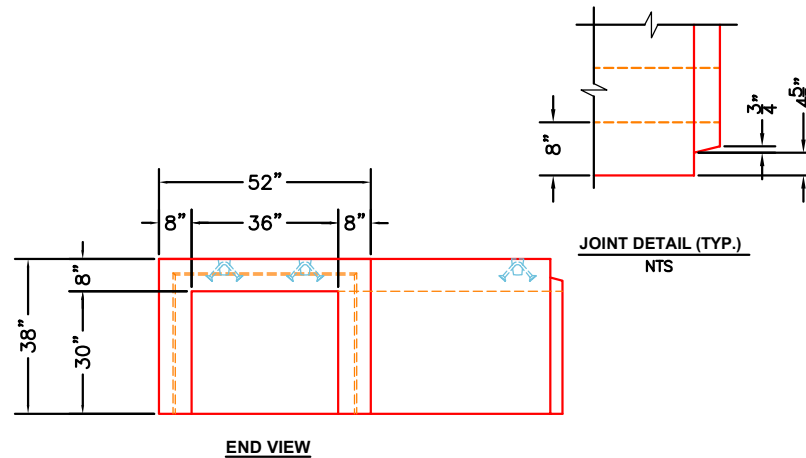
SECTION @ PRECAST SUMP
SHOWING REINFORCEMENT

SK-10

VAULT 3, PRECAST BASE SLAB AND SUMP
UK BP9 SITE THERMAL AND ELECTRIC

GENERAL NOTES

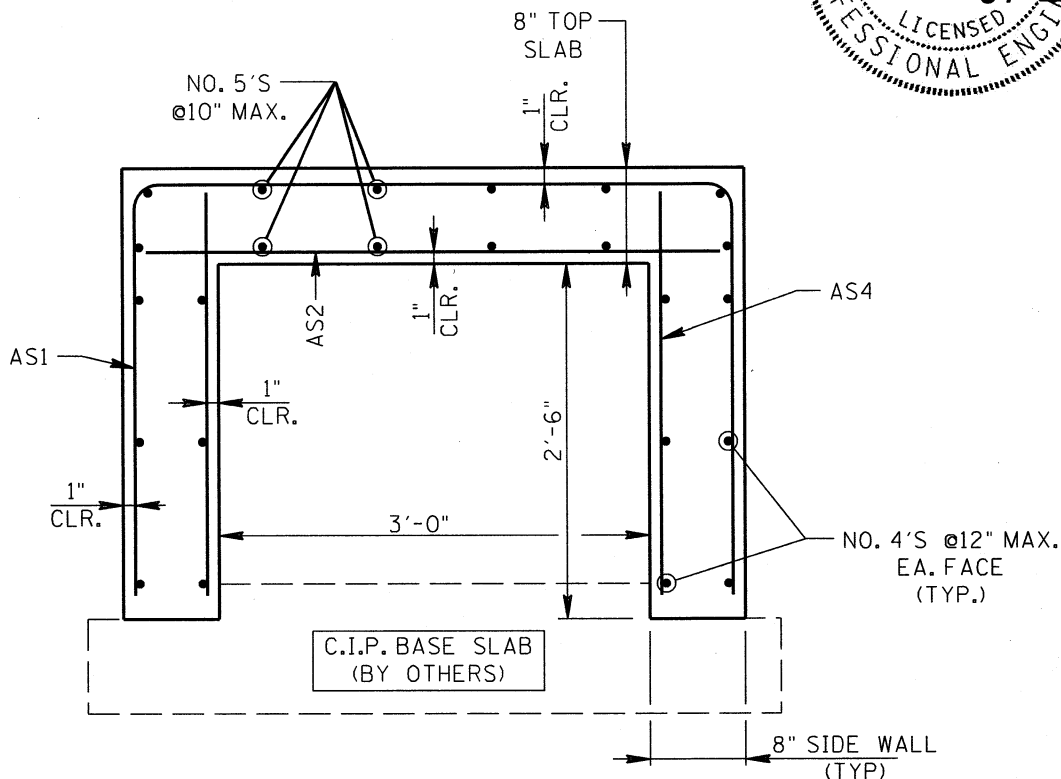
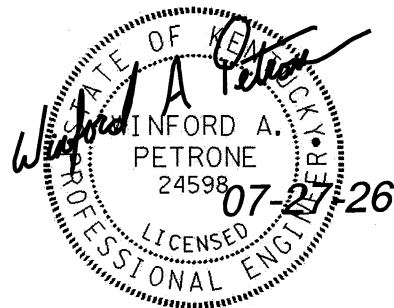
1. MANUFACTURED TO ASTM C1577 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. LOAD REQUIREMENTS = KY-HL93 (KY TABLE1).
4. COVER DEPTH = 4' TO 6'.
5. REINFORCING: PER ASTM C1577 (GRADE 60). SEE ATTACHED STAMPED DESIGN CALCULATIONS.
6. BOX CULVERT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST).
7. EXTERIOR JOINT WRAP TO BE 12" WIDE CS212.
8. WEIGHT: 36" X 30" X 188" LONG SECTION = 10,225 LBS.



PRODUCTION WORK ORDER		PRODUCT I.D.: CBS	DESCRIPTION: 36" X 30" X 188" (BEND) LONG 3-SIDED BOX CULVERT	
	QUALITY CONTROL CHECKLIST ☐ ALL DIMENSIONS CORRECT. ☐ LIFTERS INSTALLED INSIDE. ☐ RECESS WITH HAUNCHES CORRECT. ☐ REINFORCING CORRECT. ☐ SURFACE QUALITY ACCEPTABLE. ☐ LIFTERS INSTALLED OUTSIDE. ☐ PRODUCT SQUARE.	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: CLEARY CONSTRUCTION INC	
		PLANT: BEAVER DAM, KY.	PROJECT: UK BP9 SITE THERMAL AND ELECTRIC UTILITIES	
		WEIGHT: 10,225 LBS.	STRUCTURE: 36" X 30" X 168" (BEND) BOX CULVERT (P8)	
		TOP JOINT: GROOVE	SALES ORDER/QUOTE NO: 25-2504	
		BOTTOM JOINT: TONGUE	PC: C. GOFF	DRAWING: S. FELLETER
		QC CHECK INITIALS:	DATE: 07/31/26	SCALE: NTS PG. 1 of 1

NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



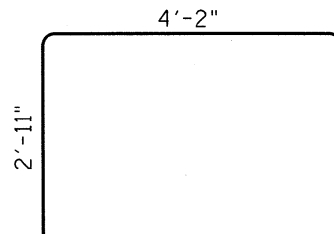
PRECAST TUNNEL SECTION

3'-0"X2'-6" STEAM TUNNEL RUN #2
BEND UNITS

NOTE: CLEARANCE BETWEEN CUT-OFF
ENDS OF BARS AND OUTSIDE
FACES OF CONCRETE=2".

NOTE: AT BEND UNIT CORNERS, PROVIDE
ADDITIONAL #5'S BETWEEN BARS
AS1 AND AS2 WHICH ARE SHOWN
ON THIS SKETCH.
SEE SK-6 FOR ADDITIONAL DETAIL.

REINFORCING STEEL		
LOCATION	REQUIRED	COMMENTS
AS1	NO. 5'S@10"	BEND AS SHOWN
AS2	NO. 5'S@10"	EXTEND TO EXTER. FACES
AS3	NOT USED	NOT USED
AS4	NO. 4'S@12"	



AS1, AS2, AND AS4 REINFORCING BARS

Fy-min=60 K.S.I.

BARS AS1

THIS SECTION TO BE USED FOR ALL
RUN #2: BEND UNITS.

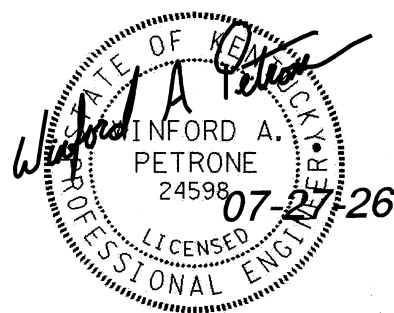
SK-5

PRECAST STEAM TUNNELS: RUN NO. 2, TYP. SECTION @ BEND UNITS

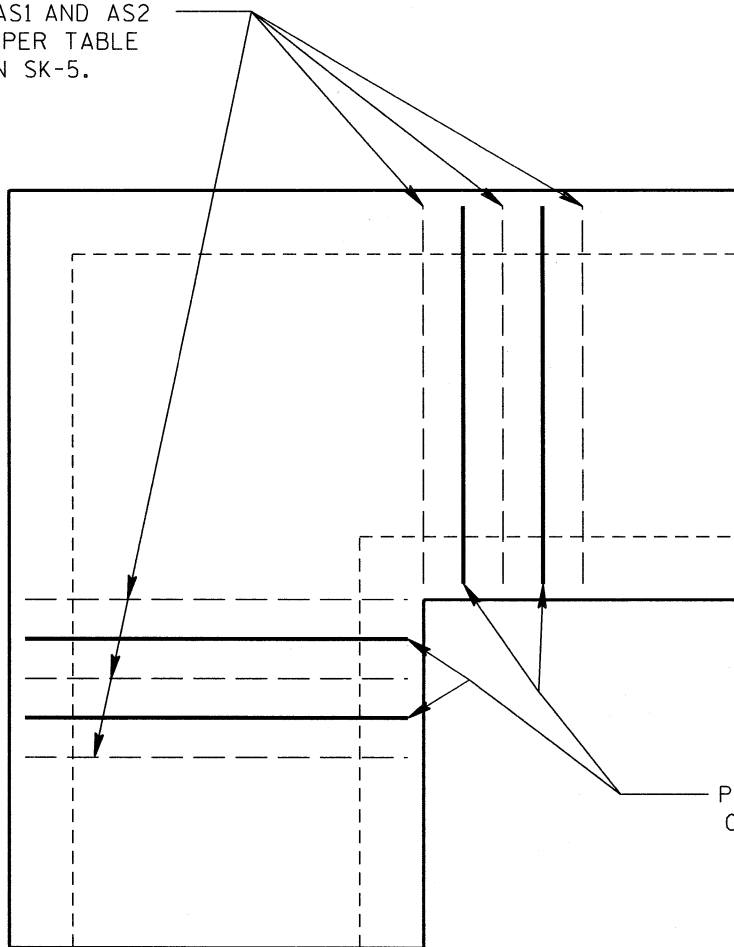
UK BP9 SITE THERMAL AND ELECTRIC: 3'-0"X2'-6" STEAM TUNNEL RUN #2

NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



BARS AS1 AND AS2
@ 10" PER TABLE
ON SK-5.



PROVIDE 2 ADD'L. SETS
OF AS1 AND AS2 BARS
BETWEEN SCHEDULED
RE-BARS EACH WAY
@ BEND CORNERS
ASSHOWN.

TYPICAL PRECAST TUNNEL BEND UNIT PLAN

SHOWING ADDITIONAL BARS AS1 AND AS2 AT BEND CORNERS
(SHOWN AT PC08)

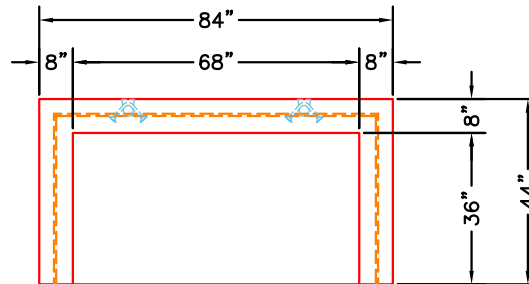
SK-6

PRECAST STEAM TUNNELS: RUN NO. 2, PLAN VIEW @ BEND UNITS

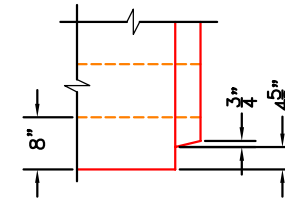
UK BP9 SITE THERMAL AND ELECTRIC: 3'-0"X2'-6" STEAM TUNNEL RUN #2

GENERAL NOTES

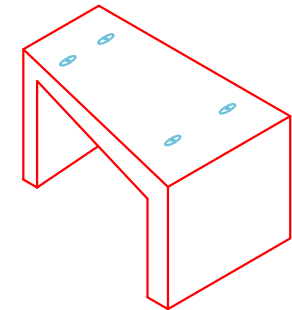
1. MANUFACTURED TO ASTM C1577 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. .LOAD REQUIREMENTS = KY-HL93 (KY TABLE1).
4. COVER DEPTH = 4' TO 6'.
3. REINFORCEMENT PER ATTACHED DESIGN BY WINFORD A. PETRONE, PE
4. BOX CULVERT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST).
5. EXTERIOR JOINT WRAP TO BE 12" WIDE CS212.
6. WEIGHT: 68" X 36" X 75" (SKEWED) LONG SECTION = 6,874 LBS.



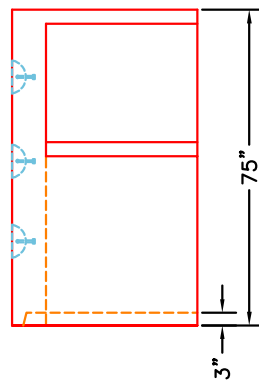
END VIEW



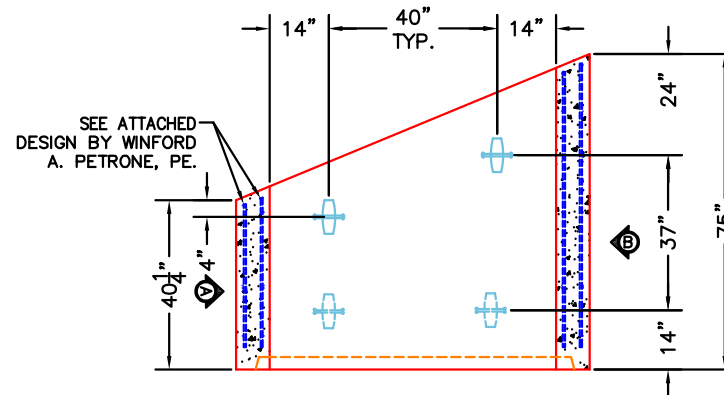
JOINT DETAIL (TYP.)
NTS



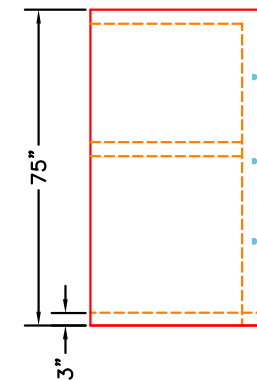
COMPONENT
ISOMETRIC VIEW



VIEW A
UPRIGHT IN MOLD



PLAN VIEW
UPRIGHT IN MOLD



VIEW B
UPRIGHT IN MOLD

4 EA. CONAC 5CA14
LIFTING ANCHORS

PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

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

PRODUCT I.D.: CBS

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY.

WEIGHT: 6,874 LBS.

TOP JOINT: FLAT

BOTTOM JOINT: GROOVE

QC CHECK INITIALS:

DESCRIPTION: 68" X 36" X 75" SKEWED LONG 3-SIDED BOX CULVERT

CUSTOMER: CLEARY CONSTRUCTION INC

PROJECT: UK BP9 SITE THERMAL AND ELECTRIC UTILITIES

STRUCTURE: 68" X 36" X 45" SKEWED BOX CULVERT (P12)

SALES ORDER/QUOTE NO: 25-2504

PC: C. GOFF

DRAWING: S. FELLETER

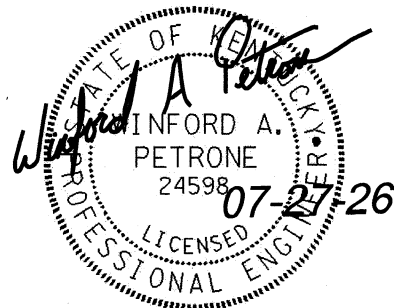
DATE: 07/31/26

SCALE: NTS

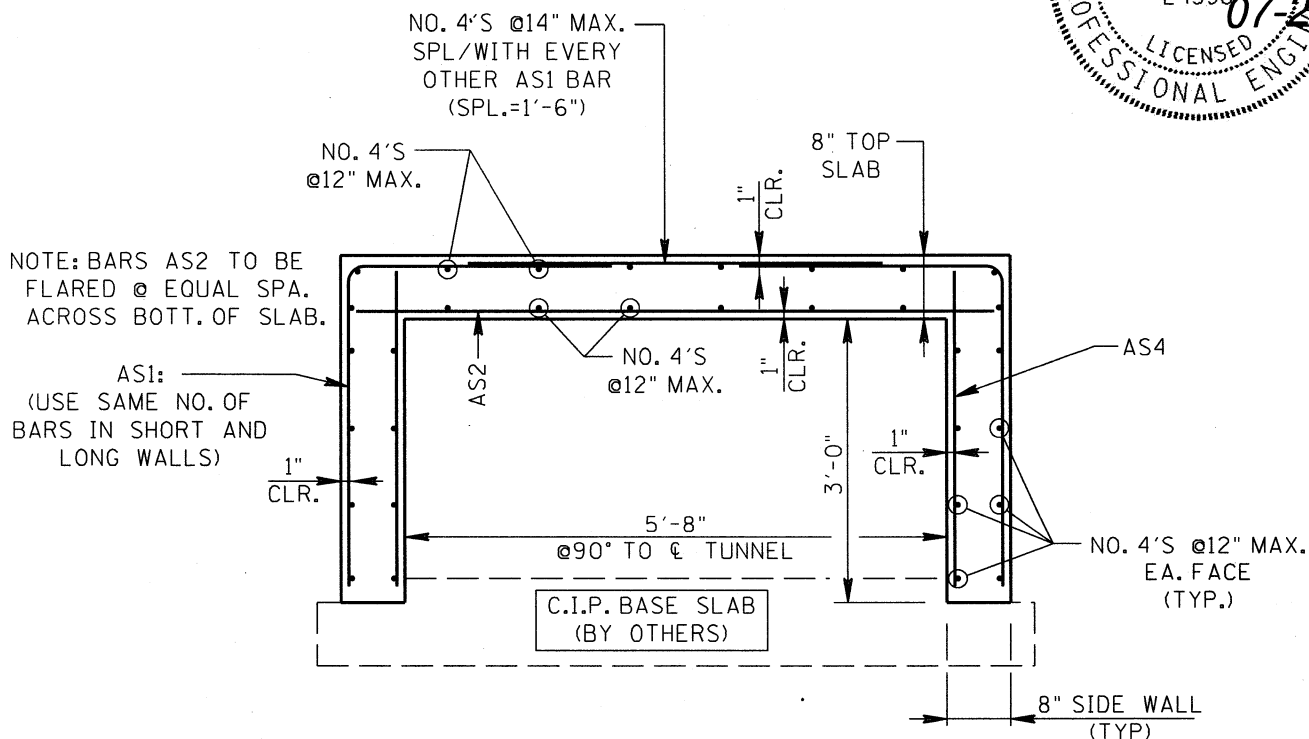
PG. 1 of 1

NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



5/6/60

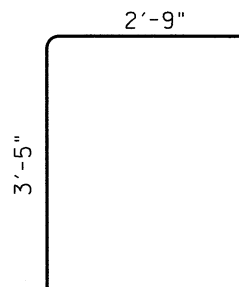


PRECAST TUNNEL SECTION

5'-8"X3'-0" STEAM TUNNEL RUN #1
WEDGED UNITS

NOTE: CLEARANCE BETWEEN CUT-OFF
ENDS OF BARS AND OUTSIDE
FACES OF CONCRETE=2".

LOCATION	REINFORCING STEEL AT RE-STL "A"	REINFORCING STEEL AT RE-STL "B"	COMMENTS
AS1	11 NO. 4'S	8 NO. 4'S	BEND AS SHOWN
AS2	11 NO. 4'S	8 NO. 4'S	EXTEND TO EXTER. FACES
AS3	NOT USED	NOT USED	NOT USED
AS4	NO. 4'S@12"	NO. 4'S@12"	



BARS AS1

AS1, AS2, AND AS4 REINFORCING BARS

Fy-min=60 K.S.I.

THIS SECTION TO BE USED FOR ALL
RUN #1: WEDGED-SHAPED UNITS,
NON-RECTANGULAR IN PLAN VIEW.

THESE UNITS INCLUDE:

LONG END TO	SHORT END	RE-STL
6'-3"	3'-4 1/4"	"A"
7'-0"	4'-1 3/16"	"A"
6'-7 5/8"	3'-8 3/4"	"A"
4'-9" *	1'-10 1/4" *	"B"

*: THE LENGTH OF THE UNIT
ADJACENT TO VAULT 2
AS INDICATED HAS BEEN
SHORTENED 1'-6" TO ALLOW
A CIP CLOSURE POUR.

SK-2

PRECAST STEAM TUNNELS: RUN NO. 1, WEDGED UNIT SECTION

UK BP9 SITE THERMAL AND ELECTRIC: 5'-8"X3'-0" STEAM TUNNEL RUN #1

1. MANUFACTURED TO ASTM C1577 (LATEST REVISION).

2. 2. CONCRETE: 5,000 PSI AT 28 DAYS
3. .LOAD REQUIREMENTS = KY-HL93 (KY TABLE1).
4. COVER DEPTH = 4' TO 6'.
3. REINFORCEMENT PER ATTACHED DESIGN BY WINFORD A. PETRONE, PE
4. BOX CULVERT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST).
5. EXTERIOR JOINT WRAP TO BE 12" WIDE CS212.
6. WEIGHT: 68" X 36" X 84" (SKEWED) LONG SECTION = 6,874 LBS.

2. 2. CONCRETE: 5,000 PSI AT 28 DAYS

3. .LOAD REQUIREMENTS = KY-HL93 (KY TABLE1).

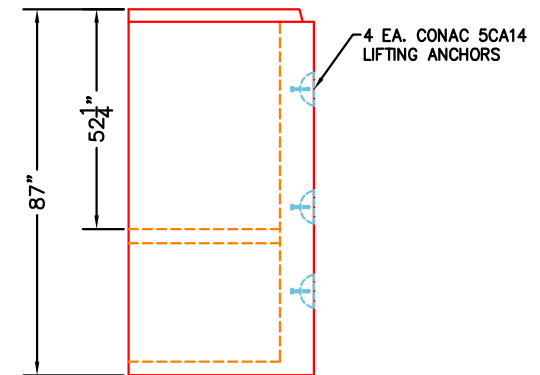
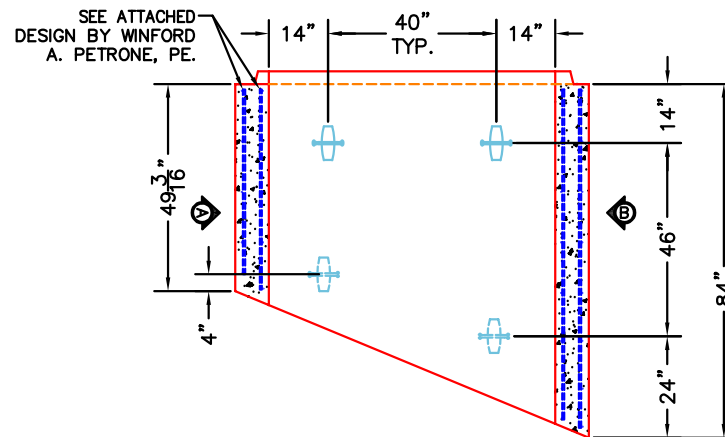
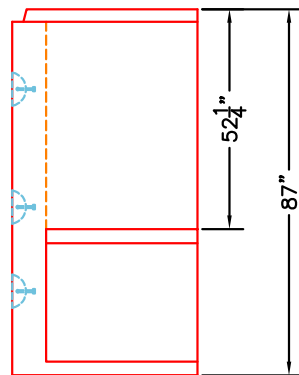
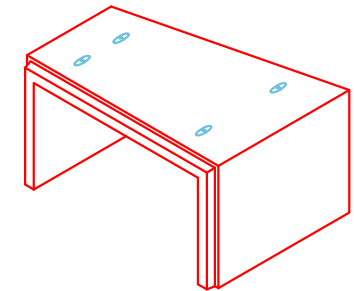
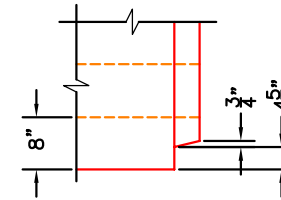
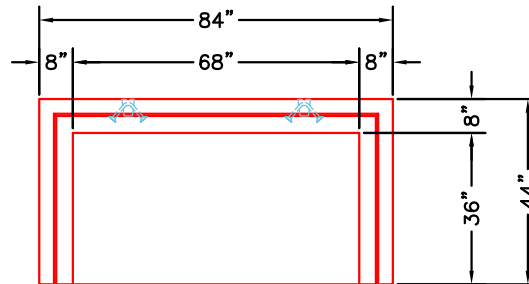
4. COVER DEPTH = 4' TO 6'.

3. REINFORCEMENT PER ATTACHED DESIGN BY WINFORD A. PETRONE, PE

4. BOX CULVERT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST).

5. EXTERIOR JOINT WRAP TO BE 12" WIDE CS212.

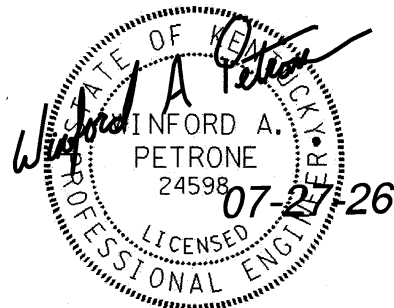
6. WEIGHT: 68" X 36" X 84" (SKEWED) LONG SECTION = 6,874 LBS.



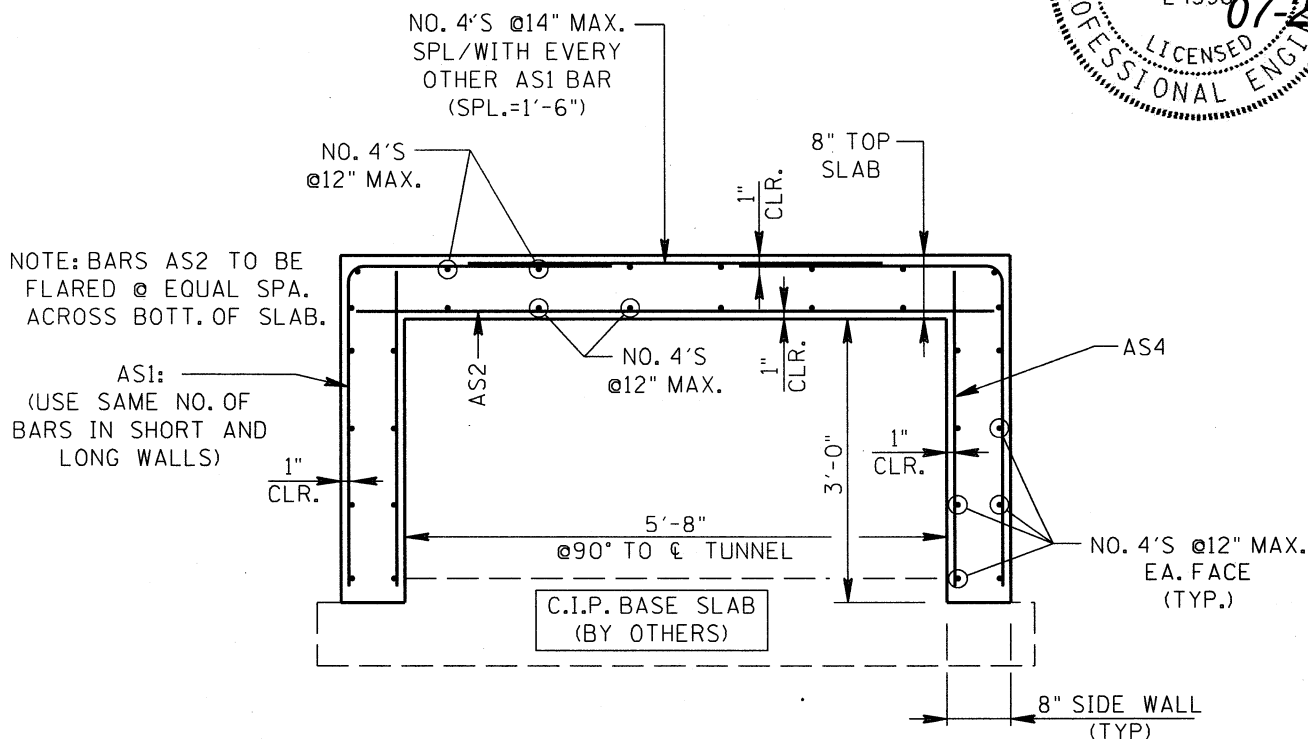
PRODUCTION WORK ORDER		PRODUCT I.D.: CBS	DESCRIPTION: 68" X 36" X 84" SKEWED LONG 3-SIDED BOX CULVERT		
	QUALITY CONTROL CHECKLIST	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: CLEARY CONSTRUCTION INC		
	☐ ALL DIMENSIONS CORRECT. ☐ LIFTERS INSTALLED INSIDE. ☐ RECESS WITH HAUNCHES CORRECT. ☐ REINFORCING CORRECT. ☐ SURFACE QUALITY ACCEPTABLE. ☐ LIFTERS INSTALLED OUTSIDE. ☐ PRODUCT SQUARE.	PLANT: BEAVER DAM, KY.	PROJECT: UK BP9 SITE THERMAL AND ELECTRIC UTILITIES		
		WEIGHT: 8,413 LBS.	STRUCTURE: 68" X 36" X 84" SKEWED BOX CULVERT (P13)		
		TOP JOINT: TONGUE	SALES ORDER/QUOTE NO: 25-2504		
		BOTTOM JOINT: FLAT	PC: C. GOFF		DRAWING: S. FELLETTTER
		QC CHECK INITIALS:	DATE: 07/31/26	SCALE: NTS	PG. 1 of 1

NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



5/6/60

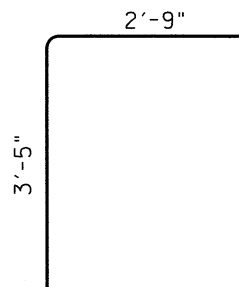


PRECAST TUNNEL SECTION

5'-8"X3'-0" STEAM TUNNEL RUN #1
WEDGED UNITS

NOTE: CLEARANCE BETWEEN CUT-OFF
ENDS OF BARS AND OUTSIDE
FACES OF CONCRETE=2".

LOCATION	REINFORCING STEEL AT RE-STL "A"	REINFORCING STEEL AT RE-STL "B"	COMMENTS
AS1	11 NO. 4'S	8 NO. 4'S	BEND AS SHOWN
AS2	11 NO. 4'S	8 NO. 4'S	EXTEND TO EXTER. FACES
AS3	NOT USED	NOT USED	NOT USED
AS4	NO. 4'S@12"	NO. 4'S@12"	



BARS AS1

AS1, AS2, AND AS4 REINFORCING BARS

Fy-min=60 K.S.I.

THIS SECTION TO BE USED FOR ALL
RUN #1: WEDGED-SHAPED UNITS,
NON-RECTANGULAR IN PLAN VIEW.

THESE UNITS INCLUDE:

LONG END TO	SHORT END	RE-STL
6'-3"	3'-4 1/4"	"A"
7'-0"	4'-1 3/16"	"A"
6'-7 5/8"	3'-8 3/4"	"A"
4'-9" *	1'-10 1/4" *	"B"

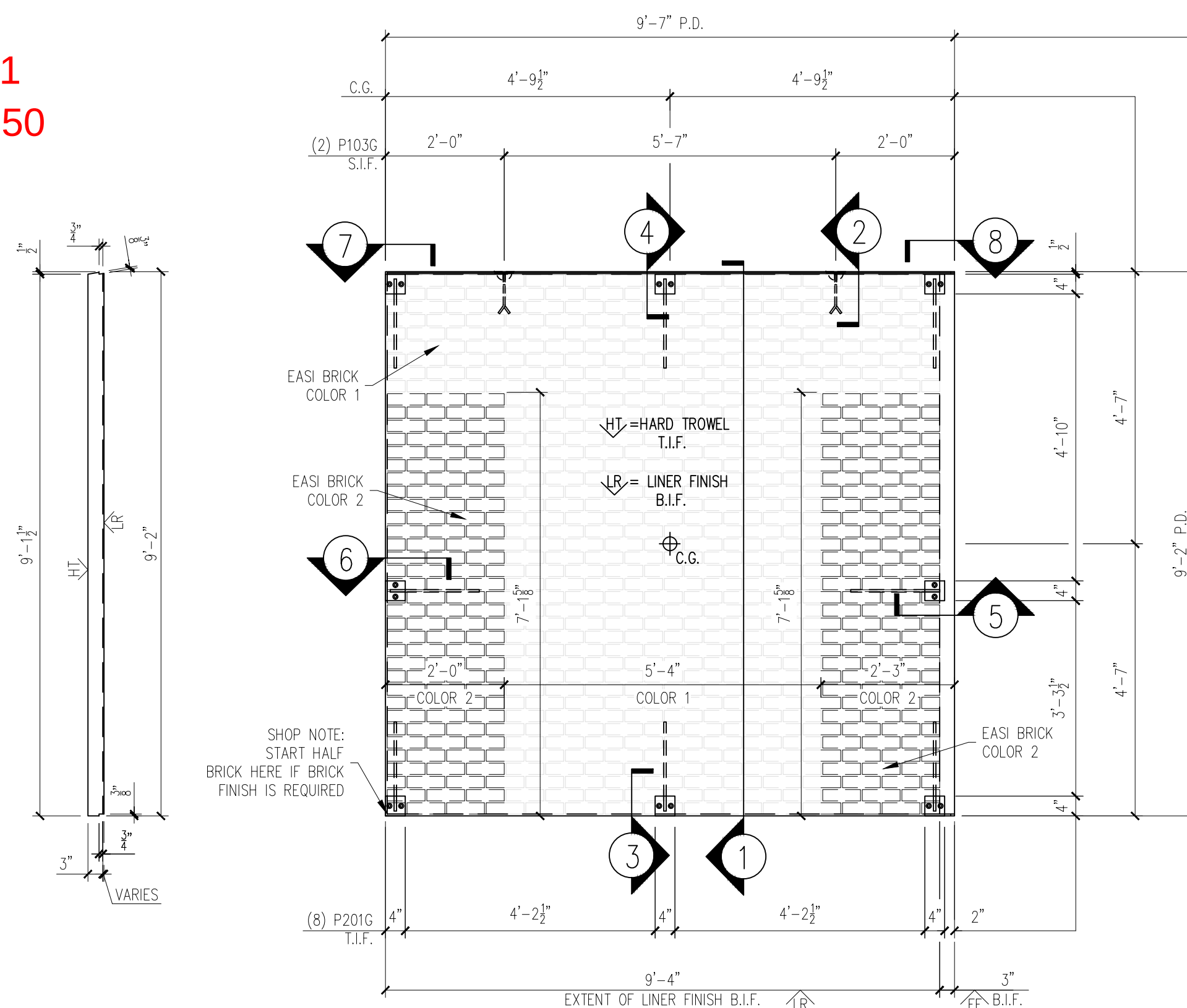
*: THE LENGTH OF THE UNIT
ADJACENT TO VAULT 2
AS INDICATED HAS BEEN
SHORTENED 1'-6" TO ALLOW
A CIP CLOSURE POUR.

SK-2

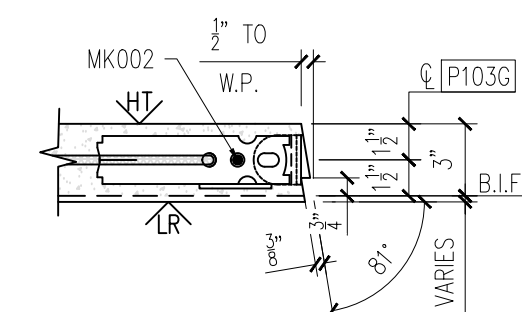
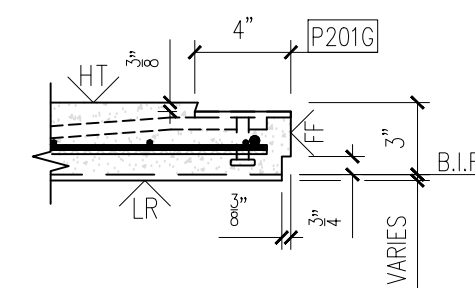
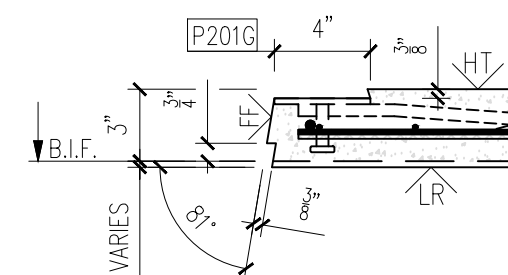
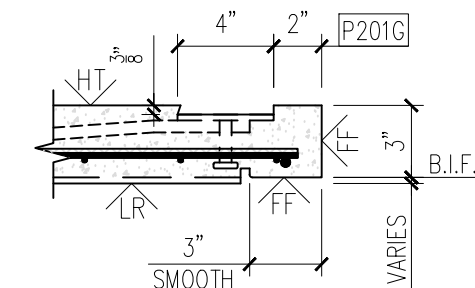
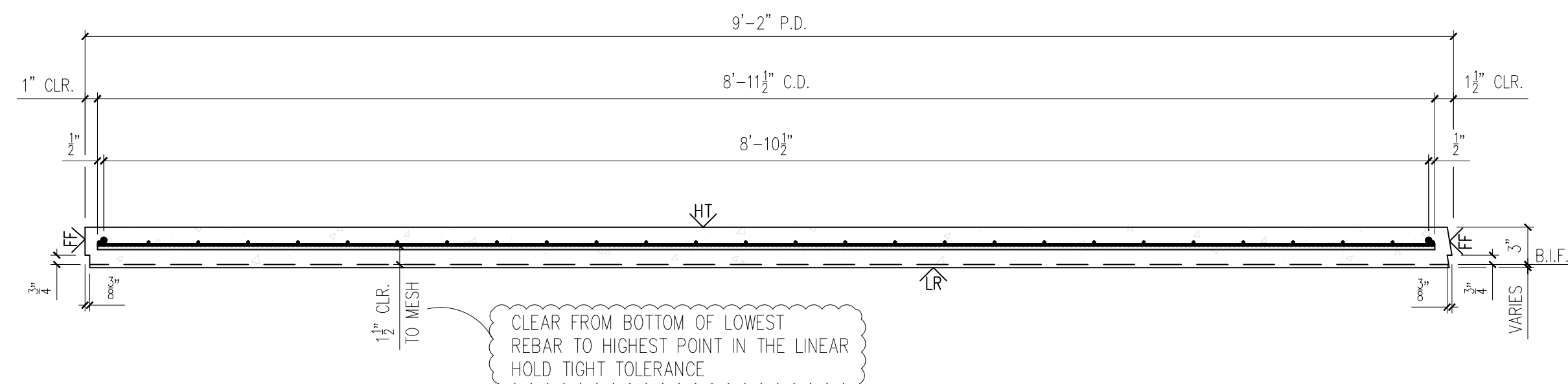
PRECAST STEAM TUNNELS: RUN NO. 1, WEDGED UNIT SECTION

UK BP9 SITE THERMAL AND ELECTRIC: 5'-8"X3'-0" STEAM TUNNEL RUN #1

25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVW
Wall - WP-01
Weight - 3,550
1 Required



FORM VIEW
SCALE: $\frac{1}{2}" = 1'-0"$



MESSAGE CENTER

1. REFER TO DETAILS AND SECTION FOR REINFORCEMENT PLACEMENT
2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

CHECKED BY:

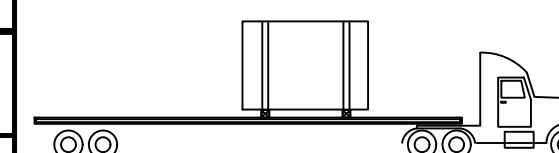
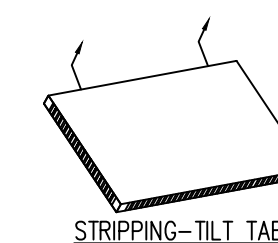
DATE:

APPROVED BY:

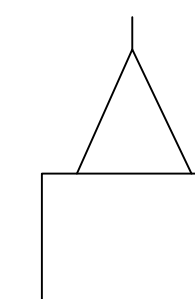
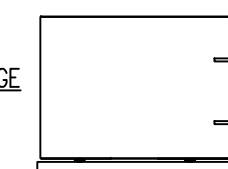
DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	Q
P103G	2 TON RL-4 TECH ERECTION ANCHOR (79527) (GALV.)	
P201G	4"X4"X $\frac{3}{8}$ " W/(2) $\frac{3}{8}$ " $\emptyset$ X 1 $\frac{1}{2}$ " H.A.S. W/ 1'-4" BENT REBAR (GALVANIZED)	

HANDLING INSTRUCTIONS



YARD STORAGE



CONCRETE INSTRUCTIONS

CONCRETE RELEASE @: 2,500 P.S.I.

CONCRETE @ 28 DAYS: 5,000 P.S.I.

CONCRETE MIXES

CONCRETE - GRAY	VOLUME = 0.87	C.Y.
CONCRETE - MIX 1	VOLUME = -	C.Y.
CONCRETE - MIX 2	VOLUME = -	C.Y.
SOFT SOUND	VOLUME = -	C.Y.
TOTALS	VOLUME = 0.87	C.Y.

		VOLUME
WEIGHT:	3,550	LBS

FINISHING INSTRUCTIONS

LR = LINER FINISH

FF = FORM FINISH

HT = HARD TROWEL FINISH

H =	9'-2"	SQ.FT.(T.I.F.) =	87.38
W =	9'-7"	SQ.FT.(T.I.F.) =	-
D =	3"	SQ.FT.(T.I.F.) =	-

CONTROL NUMBERS:

1

PRODUCT BUILDING	SALES ORDER NUMBER -
SHEET NUMBER 1 OF 2	NUMBER REQUIRED 1

DATE	DESCRIPTION	INI.	REV.
			Δ
			Δ
			Δ
			Δ
			Δ

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE
NTS

DRAWN BY
FTI

CHECK BY
WCR

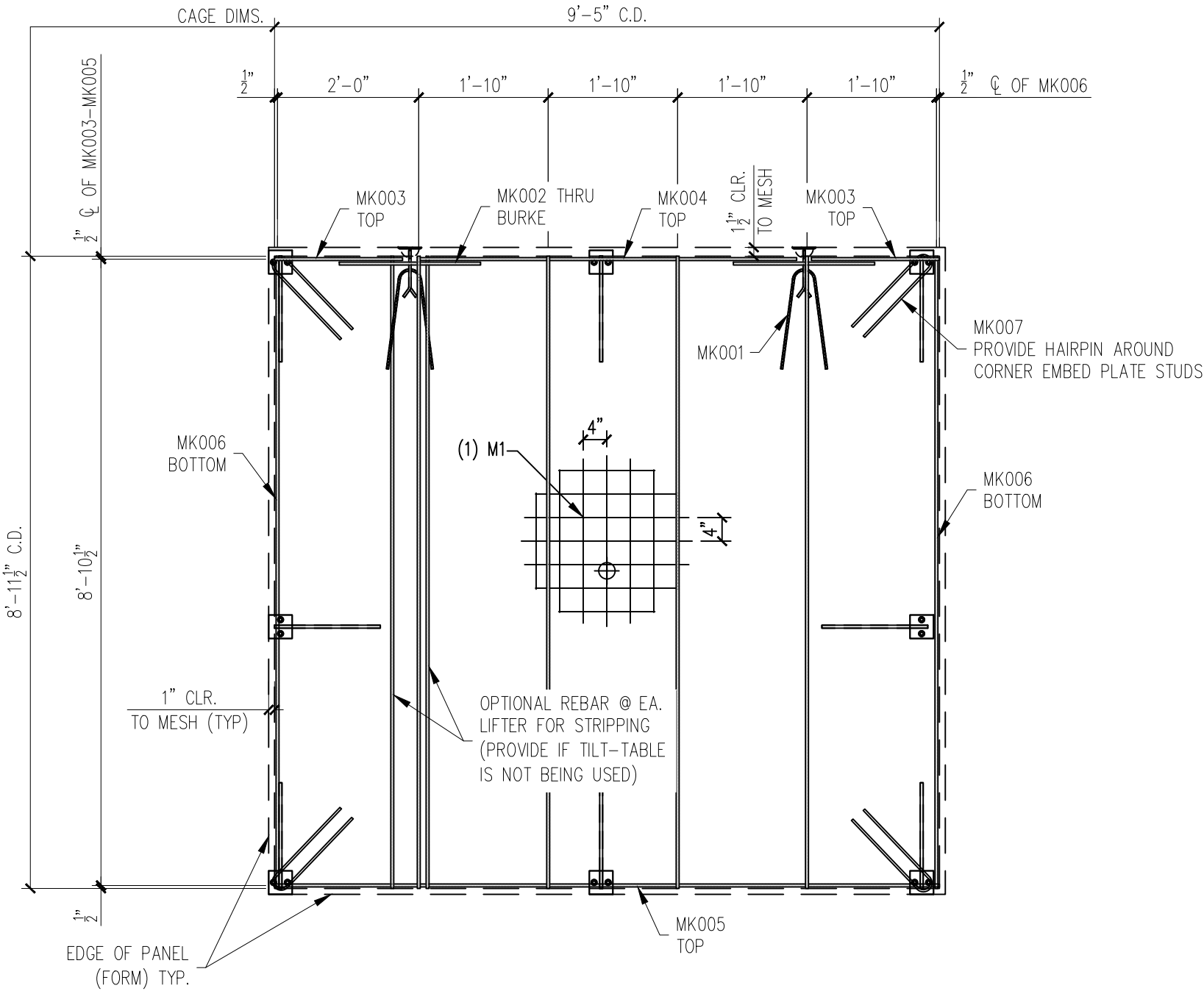
ISSUE DATE
07.21.26

PIECE MARK
WP-01

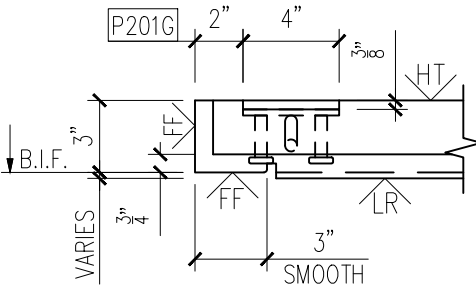
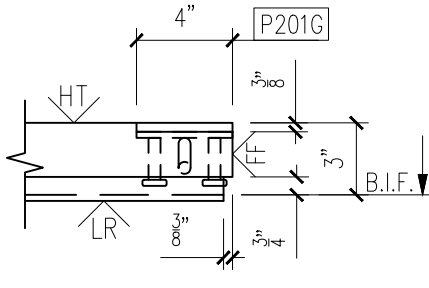
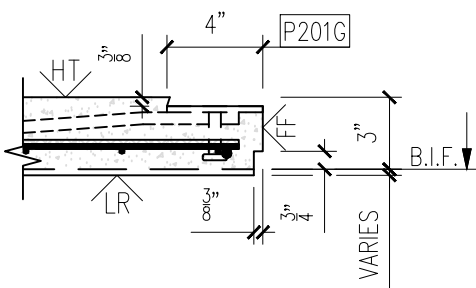
EASI-SET® WORLDWIDE
5119 Catlett Rd. • Midland, VA 22728 • info@EasiSet.com

25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVW
Wall - WP-01
Weight - 3,550
1 Required

NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR



REINFORCING VIEW
SCALE: 1/2" = 1'-0"



MESSAGE CENTER

1. REFER TO DETAILS AND SECTION FOR REINFORCEMENT PLACEMENT

2. SUPPLEMENTAL STEEL FOR STRIPPING AND HANDLING MAY BE ADDED AS REQUIRED.

NOTE:

1. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).

PRODUCT	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY.
MK001	#3 X 3'-0"	2
MK002	#3 X 2'-0"	2
MK003	#3 X 1'-9 3/4"	2
MK004	#3 X 5'-4 1/2"	1
MK005	#3 X 9'-5"	1
MK006	#3 X 8'-11 1/2"	6
MK007	#3 X 3'-1"	4

MESH SCHEDULE		
MARK #	DESCRIPTION	QTY.
M1	W4XW4 4"X4" WWF 8'-11 1/2" X 9'-5"	1

EASI-SET® WORLDWIDE

EASI-SET® WORLDWIDE

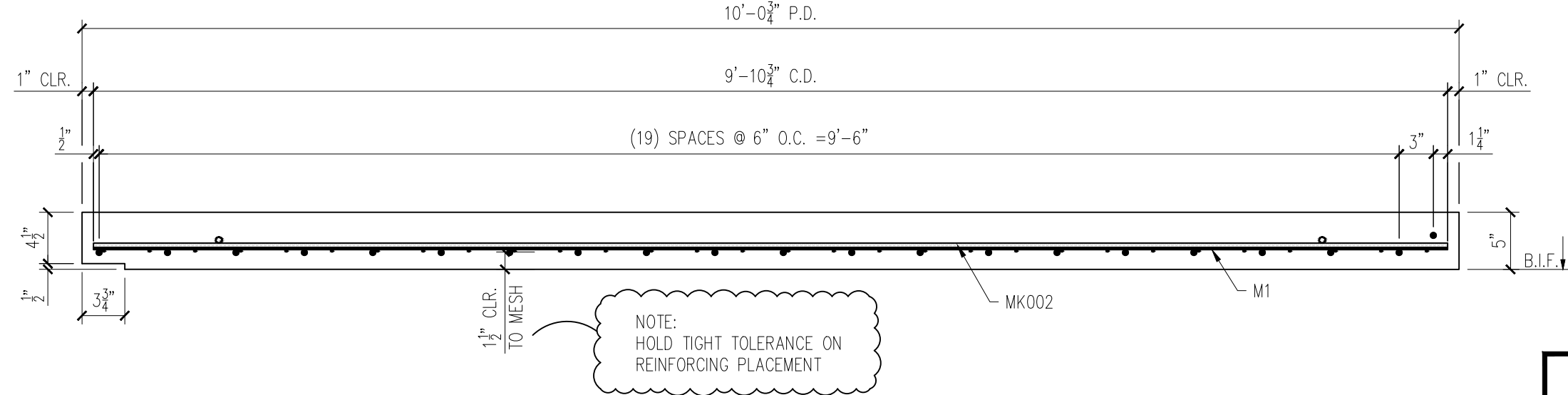
DATE	REV	DESCRIPTION	INI.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

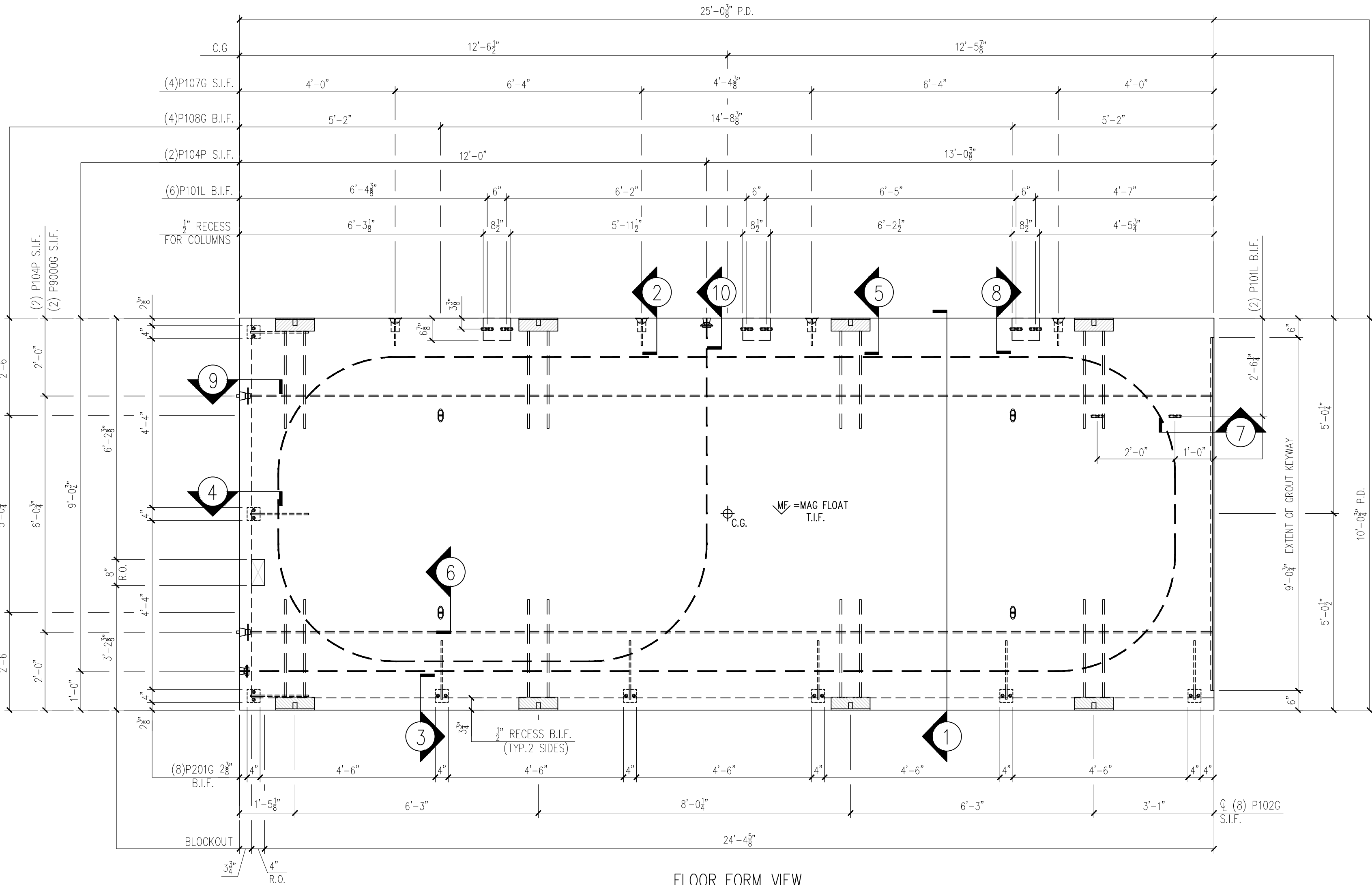
SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.21.26
PIECE MARK WP-01

5119 Catlett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-01
Weight - 15,655
1 Required



FLOOR FORM VIEW
SCALE: 1/2" = 1'-0"



BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x8" W/ (2) 8"x1 1/2" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	8
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P9000G	1"Ø E.M.T. TUBE 24'-10 1/8" LONG (GALV.)	2
P108G	4 TON RL-24 PLATE ANCHOR (79128) (GALVANIZED)	4
P101L	1/2"Ø X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	8

HANDLING INSTRUCTIONS

STRIPPING-TILT TABLE

SHIPPING

YARD STORAGE

ERECTION

CONCRETE INSTRUCTIONS	
CONCRETE @ RELEASE: 2,500 P.S.I.	
CONCRETE @ 28 DAYS: 5,000 P.S.I.	
POST-TENSION @ 3,500 P.S.I.	
CONCRETE MIXES	
CONCRETE - GRAY	VOLUME = 3.86 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 3.86 C.Y.
WEIGHT: 15,655 LBS.	
FINISHING INSTRUCTIONS	
MF = MAG FLOAT FINISH	
FF = FORM FINISH	
L = 25'-0 3/8"	SQ.FT.(T.I.F.) = 250.44
W = 10'-0 3/4"	SQ.FT.(T.I.F.) = -
D = 5"	SQ.FT.(T.I.F.) = -
CONTROL NUMBERS:	
-	
PRODUCT BUILDING	SALES ORDER NUMBER
SHEET NUMBER	NUMBER REQUIRED
1 OF 2	1

MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS INSIDE SURFACE OF FLOOR CAST FACE DOWN

CHECKED BY: DATE:

APPROVED BY: DATE:

EASI-SET® WORLDWIDE

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www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

DATE	REV	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT

5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240

CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE
NTS

DRAWN BY
FTL

CHECK BY
WCR

ISSUE DATE
07.22.26

PIECE MARK
FP-01

PT Check for Floor Panels FP-01 & 02 (PCI MNL - 1)

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A= 0.153 in²

E= 28500000 psi

f_{pu}= 270 ksi

Strand Length **912 in**

Assume (Info supplied by strand manufacturer)

k= 0.0007 Wobble Friction Coeff.

μ = 0.05 Curvature friction coeff. (Initial tension of 3,000 lbs)

Strand is to be stressed 70% of ultimate

= 28917 lbs

Adjustments to tensioning

1) Dead end anchor wedge seating loss

~ Expected to be 1/8 in

2) Live end anchor wedge seating loss

~ Expected to be 1/8 in, recommend over pull 1/8"

3) Elastic Shortening

Neglect for this pnl

4) Friction Loss

Additional force to overcome frictional forces between strand and sheathing

Tensioning Computations

Basic Elongation = $\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$

= 5.42 in

Adjustments

a) Dead end anchor wedge seating: Add 1/8" to elong. No force adjustment req'd

Add 1/8 in

b) Live end seating: over pull by 1/8"

1/8 in

Force adjustment t = 598 lbs lbs α = curvature = $\pi(2.5)$ 7.85 radians

c) Friction losses $\frac{PD}{PS} = e^{-\{kL + \mu\alpha\}}$

= 0.640

Avg. strand force = 0.820 17.99% Loss

Recommend sequential jacking at both ends of the tendon be used to reduce the overstressing the strand at the live end

Friction loss at mid-point of tendon

$\frac{PD}{PS} = e^{-\frac{\{kL + \mu\alpha\}}{2}}$

= 0.800

Avg. strand force over

half of tendon = 0.900 9.99% Loss

Total force and elongation at live end must be increased to compensate for friction losses

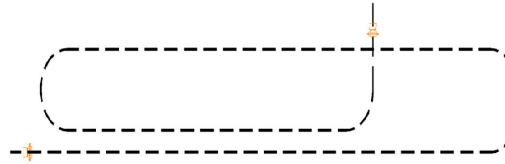
Elong. Adjustment = 0.542 in

Force Adjustment = 2889 lbs

Total Force Required = 32404 lbs **OK**

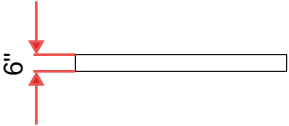
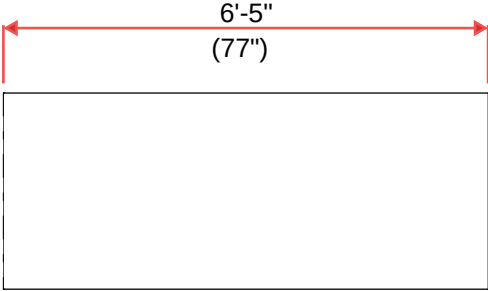
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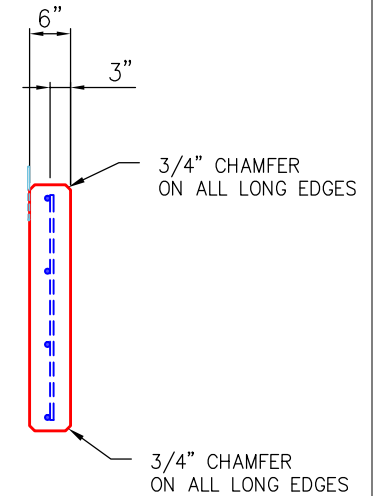
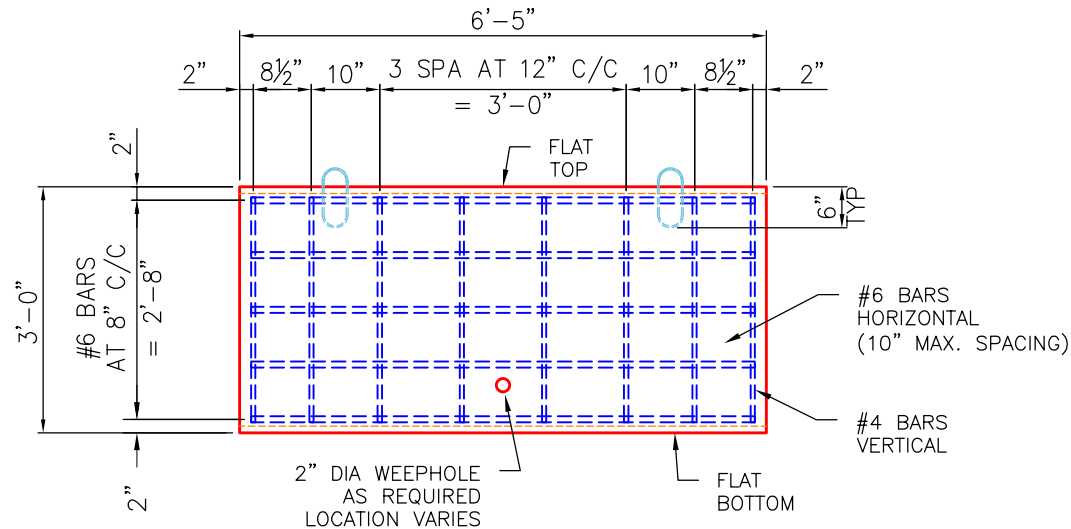
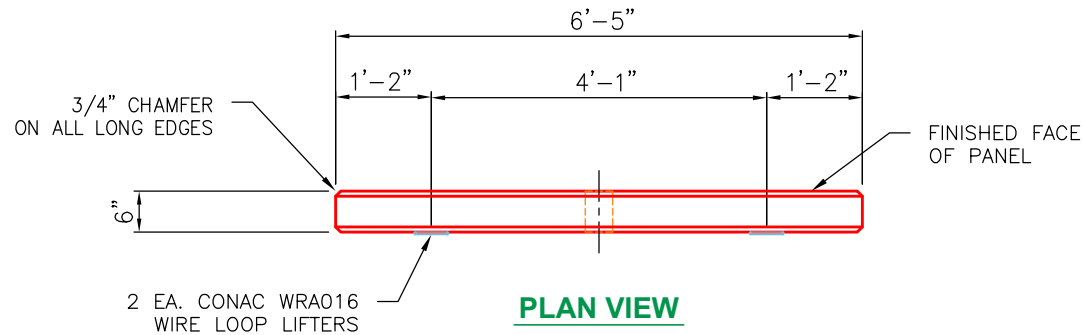
Gross Theoretical Elongation			
Basic Elongation	5.42 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.542 in		
Total Elongation	6.21 in		
Rounded	6 3/16 in		
Tolerance limits	-7.0%	5.78 in	5 12/16 in
	+7.0%	6.65 in	6 10/16 in



Cable Configuration

25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-01
Weight - 15,655
1 Required

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:22:06 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P12-P13											
P1 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P4) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG 1) Hole - 2						1398 lb 1398 lb 1398 lb 1398 lb ----- 0 lb Structure Total: 5591 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETER = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)			
Rim: 696'		Rim to Invert: 7'		Slack: 0"		Sump: 60"		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) Note: See attached typical drawing for reinforcing and lifting details.											
(P4) (P3) (P2) (P1) <<				INSIDE WALL DIMENSIONS  EXT 36"							
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 0" Floor Height: 0"		Height (Int): 36" Height (Ext): 36"		Weight (Net): 1398 lb Volume (Net): 0.36cu.yd	



GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

END VIEW

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:23:28 PM		Tech: J. Horsley PC: J. Jarvis					
Structure ID: WALL P12-P13												
P2 CUSTOM WALL					WALL PANEL 6" THICK F/F							
P4) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG 1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG Hole - 2					1398 lb 1398 lb 1398 lb 1398 lb 0 lb ----- Structure Total: 5591 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETER = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)					
Rim: 696'					Rim to Invert: 7'		Slack: 0"		Sump: 60"		Step Position:	
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	689'	0°	38.5"	2" WEEP HOLE	2"	Hole 2	2"	2"	24"	0"		
Invert 2												
Invert 3												
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												

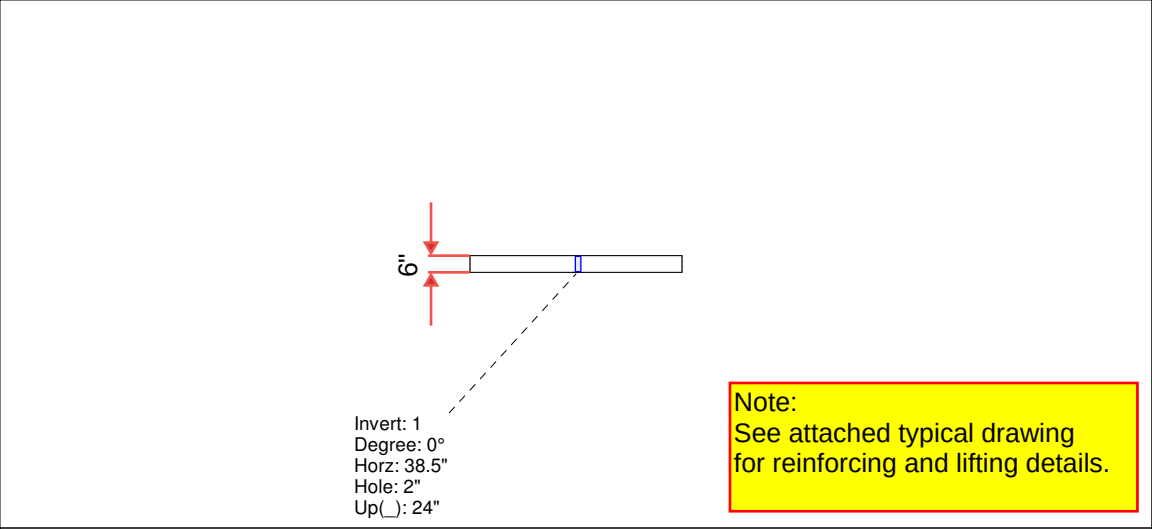
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(P3)

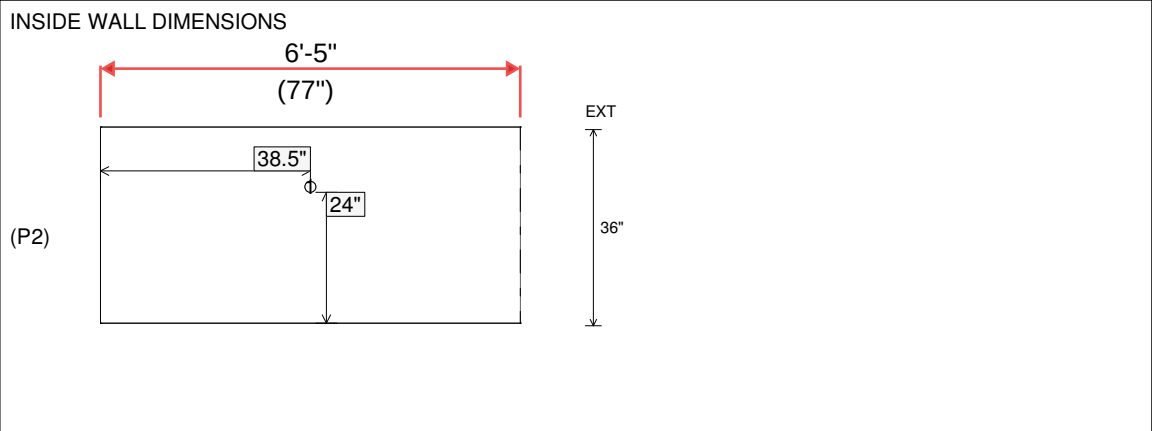
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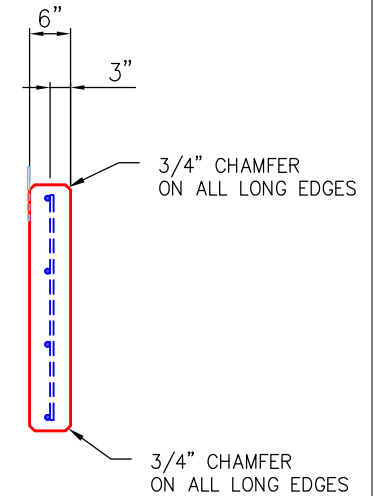
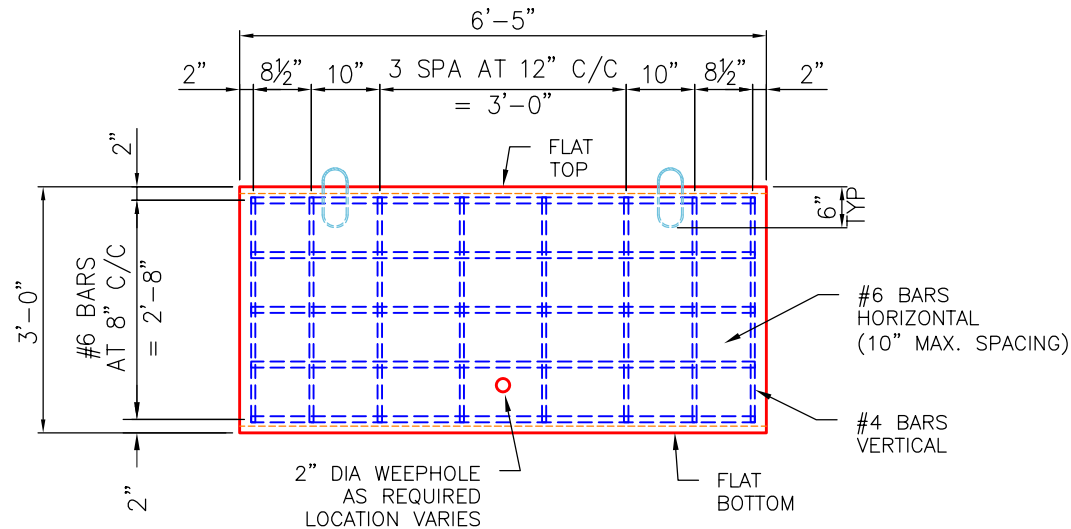
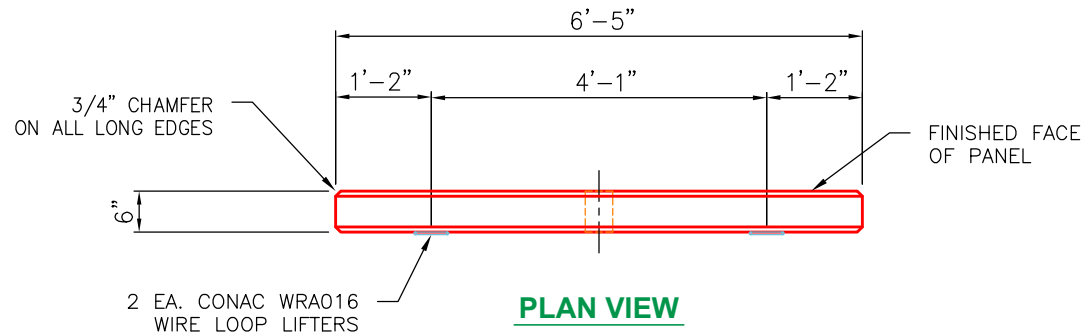
RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 0" Floor Height: 0"	Height (Int): 36" Height (Ext): 36"	Weight (Net): 1398 lb Volume (Net): 0.36cu.yd
----------------------------------	--------------------------------	--	--	--



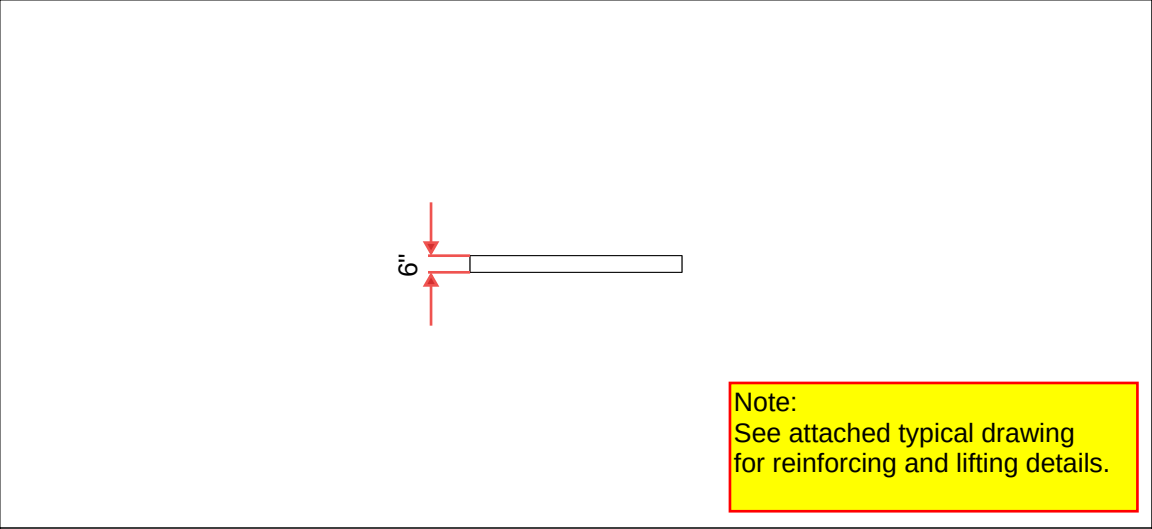
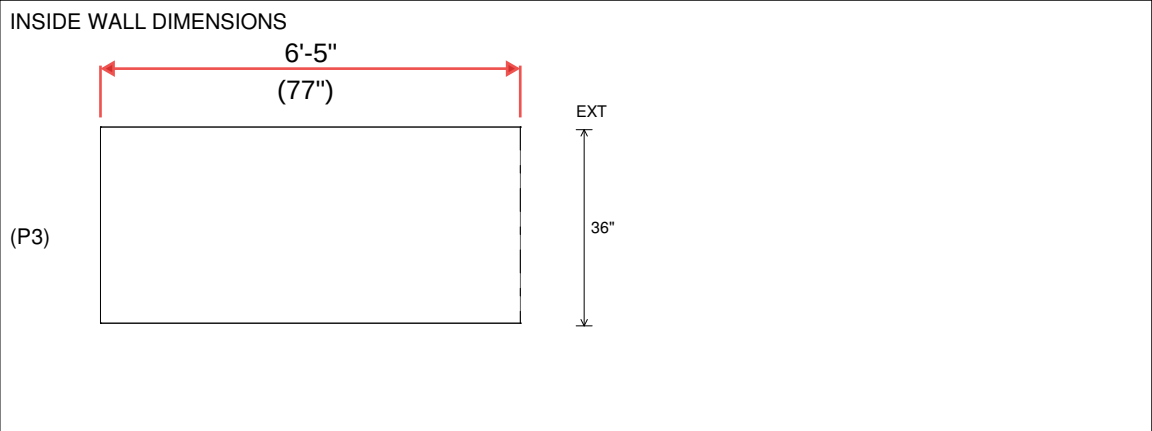
GENERAL NOTES:

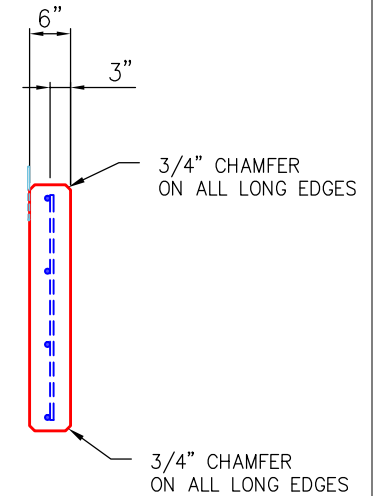
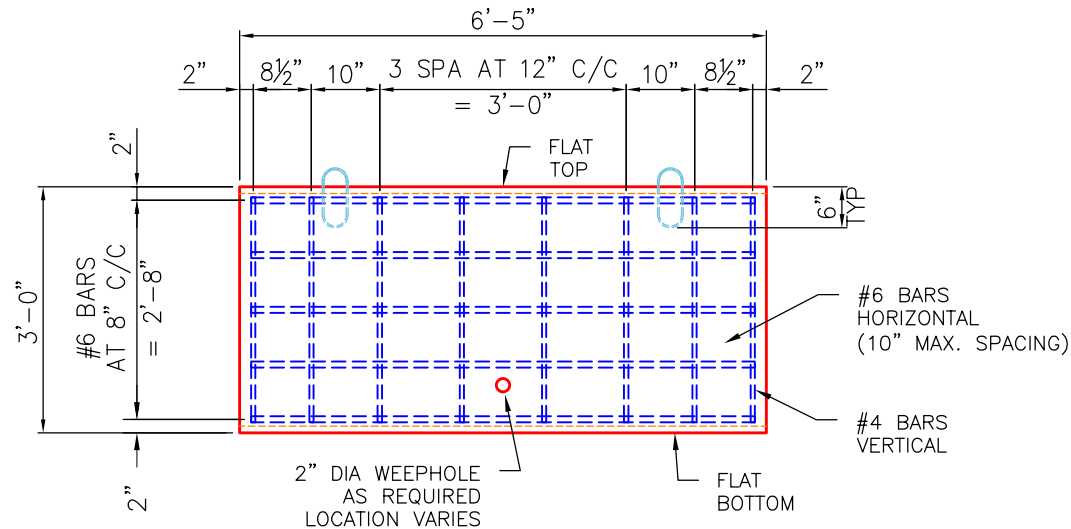
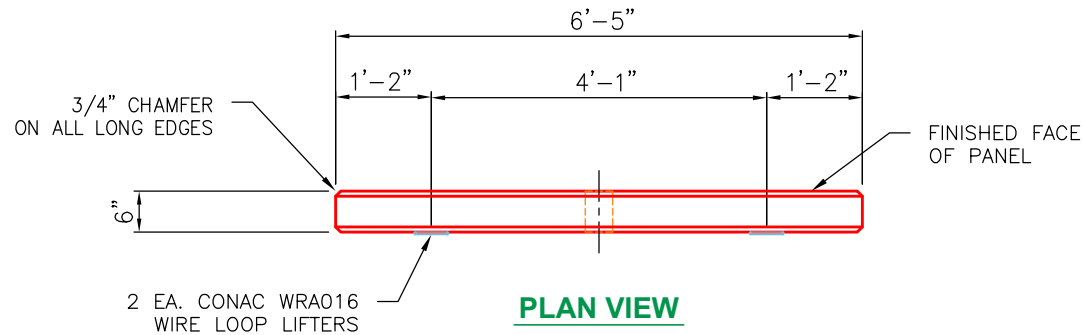
1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

END VIEW

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:23:28 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P12-P13											
P3 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P4) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG 1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG Hole - 2						1398 lb 1398 lb 1398 lb 1398 lb 0 lb ----- Structure Total: 5591 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETER = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)			
Rim: 696' Rim to Invert: 7' Slack: 0" Sump: 60" 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) (P4) (P3) << (P2) (P1)  INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 0" Floor Height: 0"		Height (Int): 36" Height (Ext): 36"		Weight (Net): 1398 lb Volume (Net): 0.36cu.yd	



GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
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4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
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SIDE VIEW

END VIEW

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				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project

Job Location: Louisville, KY 40118

Contractor: Hall Contracting of Kentucky Inc

Plant: 100

6/16/2026 1:23:28 PM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: WALL P12-P13

P4 CUSTOM WALL

WALL PANEL 6" THICK F/F

P4) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

1) Hole - 2

1398 lb

1398 lb

1398 lb

1398 lb

0 lb

Structure Total: 5591 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

2. CONCRETER = 4,000 PSI AT 28" DAYS.

3. SMOOTH FORM FINISH ON THE FRONT SURFACE.

4. 3/4" CHAMFER ON ALL LONG EDGES.

REINFORCING PER ASTM A615 (GRADE 60).

-VERTICAL BARS = #4 BARS AT 12" C/C

-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)

Rim: 696'

Rim to Invert: 7'

Slack: 0"

Sump: 60"

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										

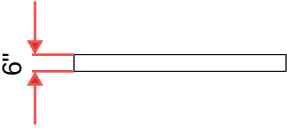
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(P3)

(P2)

(P1)

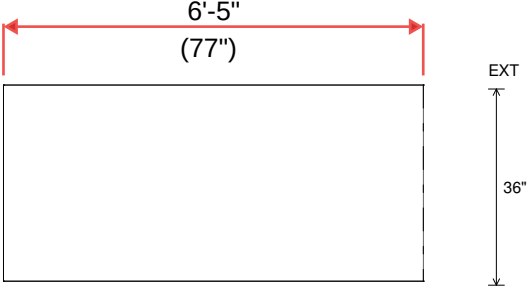
RIGHT-SIDE UP VIEW (int. dimensions)



Note:

See attached typical drawing for reinforcing and lifting details.

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Flat

Wall Thickness: 0"

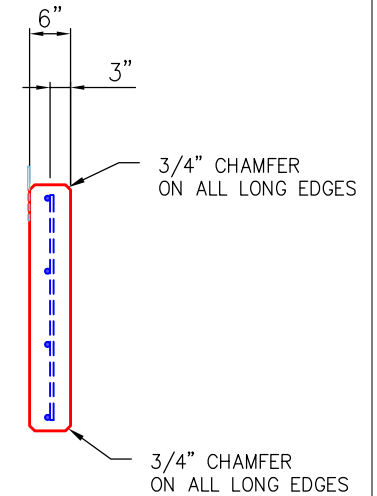
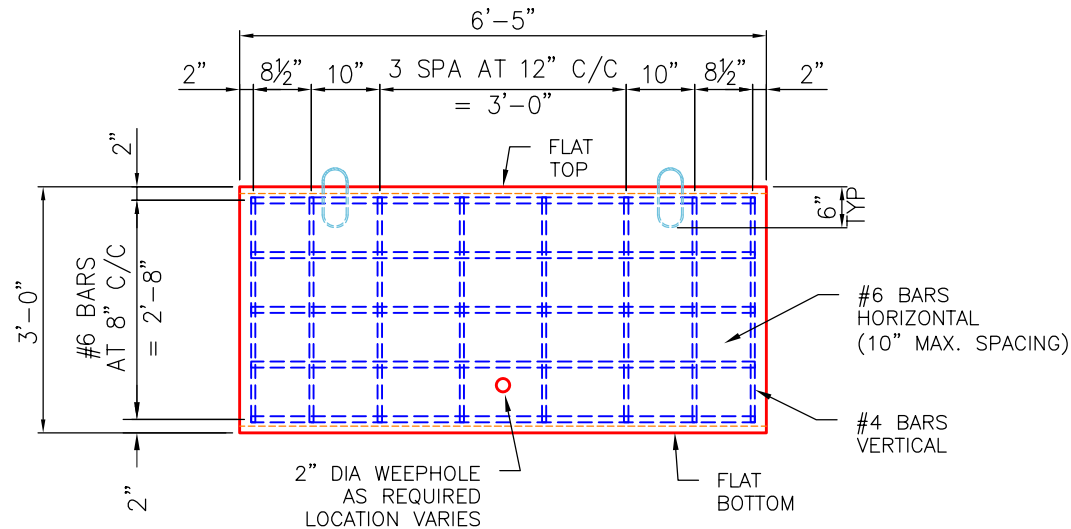
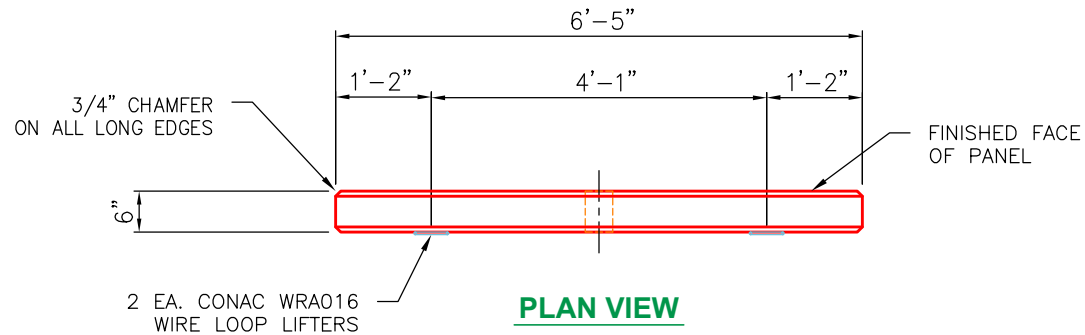
Floor Height: 0"

Height (Int): 36"

Height (Ext): 36"

Weight (Net): 1398 lb

Volume (Net): 0.36cu.yd



GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

END VIEW

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project

Job Location: Louisville, KY 40118

Contractor: Hall Contracting of Kentucky Inc

Plant: 100

6/16/2026 1:23:37 PM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: WALL P24-P25

P2 CUSTOM WALL

WALL PANEL 6" THICK F/F

P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

1) Hole - 2

1398 lb

1398 lb

0 lb

Structure Total: 2795 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. SMOOTH FORM FINISH ON THE FRONT SURFACE.

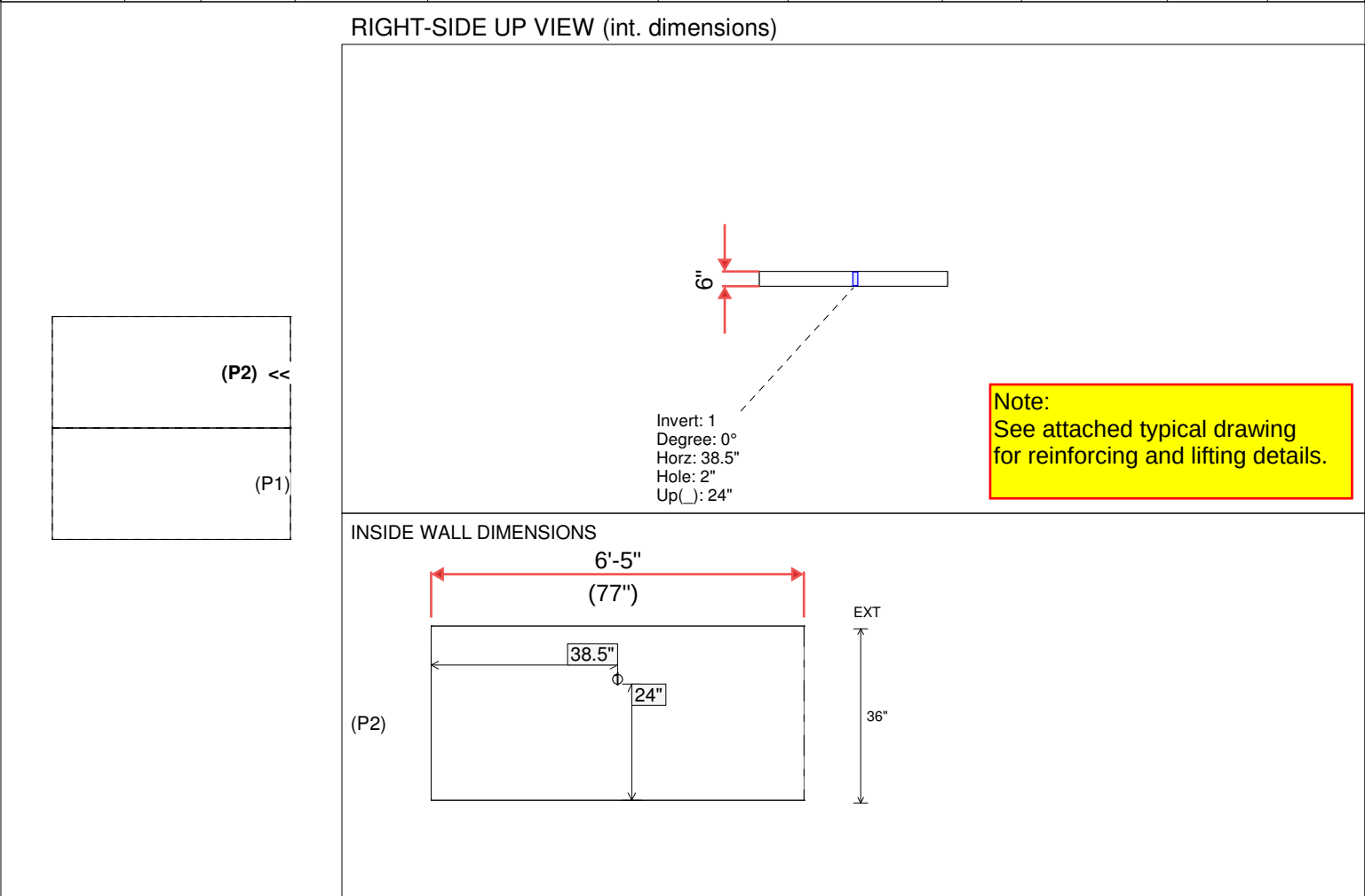
4. 3/4" CHAMFER ON ALL LONG EDGES.

REINFORCING PER ASTM A615 (GRADE 60).

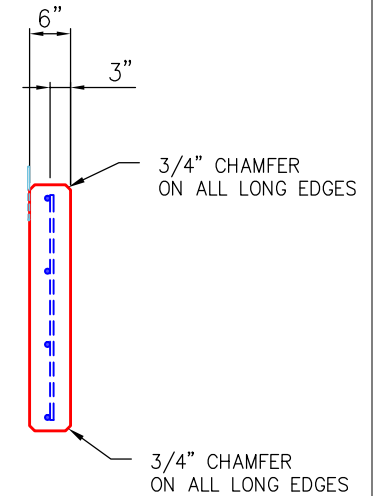
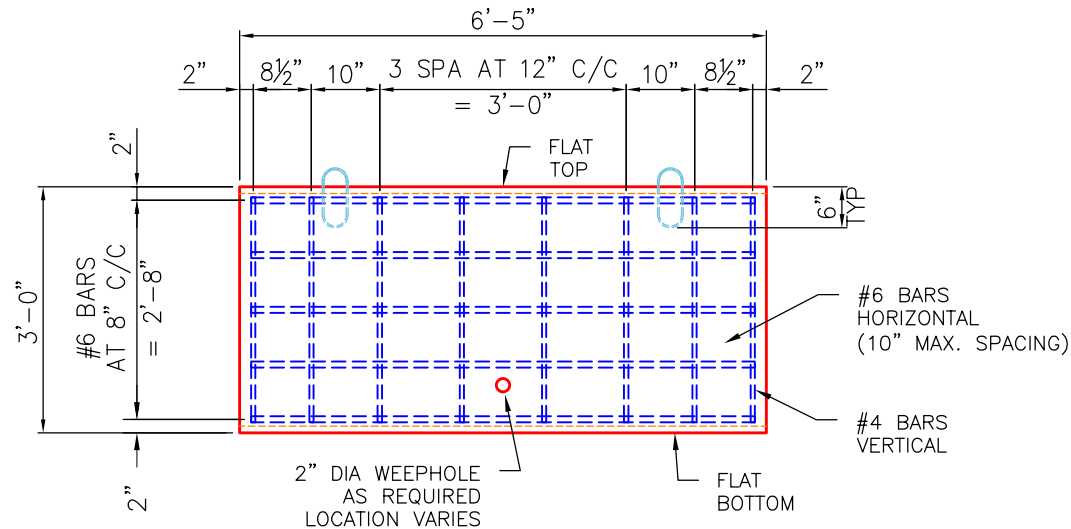
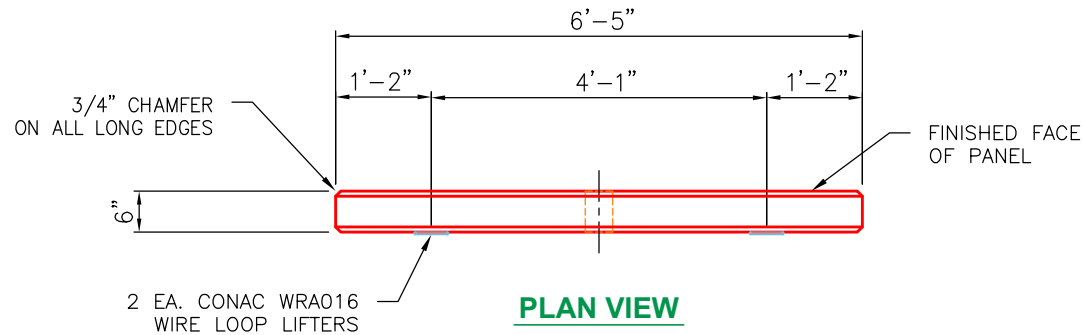
-VERTICAL BARS = #4 BARS AT 12" C/C

-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)

Rim: 690'		Rim to Invert: 1'		Slack: 0"	Sump: 60"	Step Position:				
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	689'	0°	38.5"	2" WEEP HOLE	2"	Hole 2	2"	2"	24"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



Coating (Int):	Seam Up: Flat	Wall Thickness: 0"	Height (Int): 36"	Weight (Net): 1398 lb
Coating (Ext):	Seam Dn: Flat	Floor Height: 0"	Height (Ext): 36"	Volume (Net): 0.36cu.yd



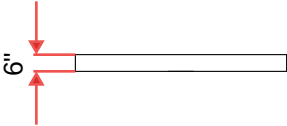
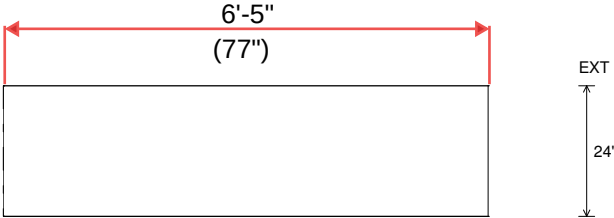
GENERAL NOTES:

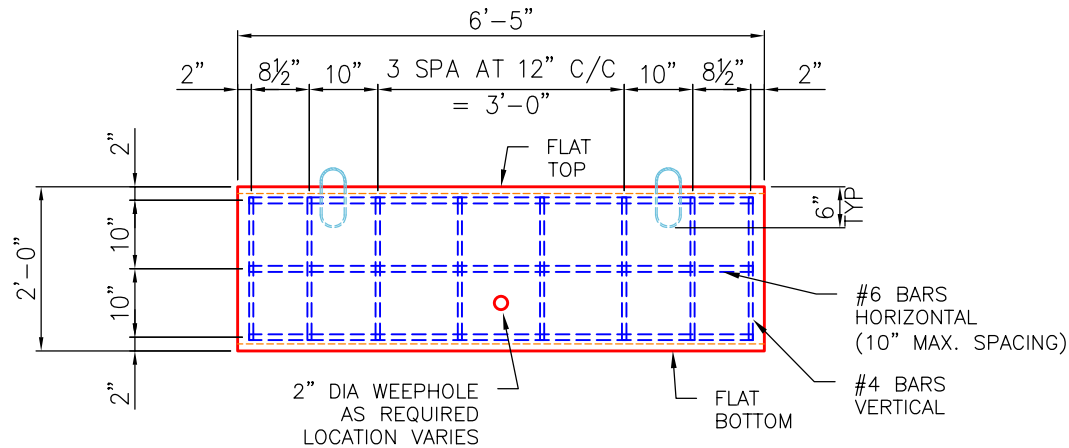
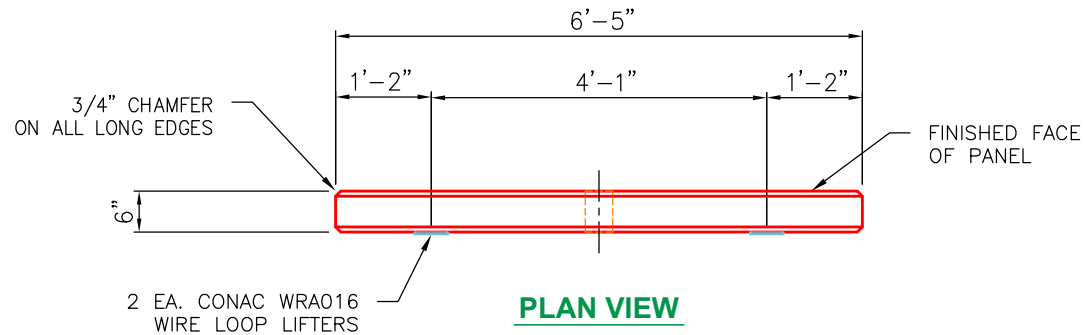
1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

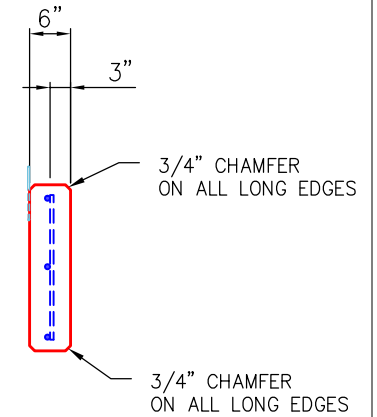
END VIEW

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:22:09 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P23-P24											
P1 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG 1) Hole - 2					1398 lb 932 lb 932 lb0 lb Structure Total: 3261 lb		<u>Structure Notes:</u> 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)				
Rim: 691' Rim to Invert: 1.5' Slack: 0" Sump: 66" 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. dimenions)											
(P3) (P2) (P1) <<							Note: See attached typical drawing for reinforcing and lifting details.				
		INSIDE WALL DIMENSIONS									
(P1) 											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 0" Floor Height: 0"		Height (Int): 24" Height (Ext): 24"		Weight (Net): 932 lb Volume (Net): 0.24cu.yd	



SIDE VIEW

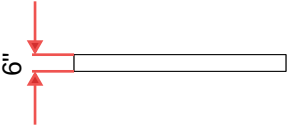


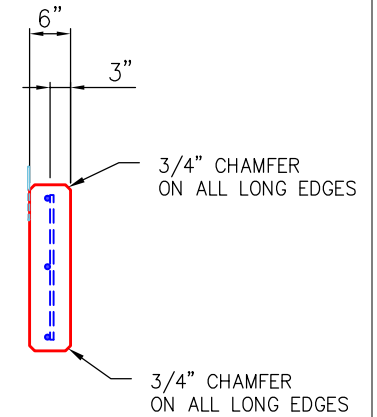
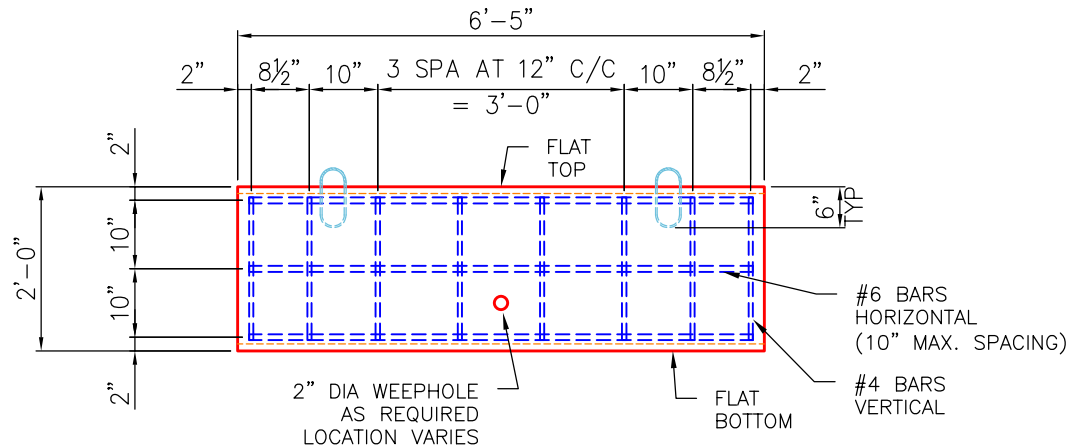
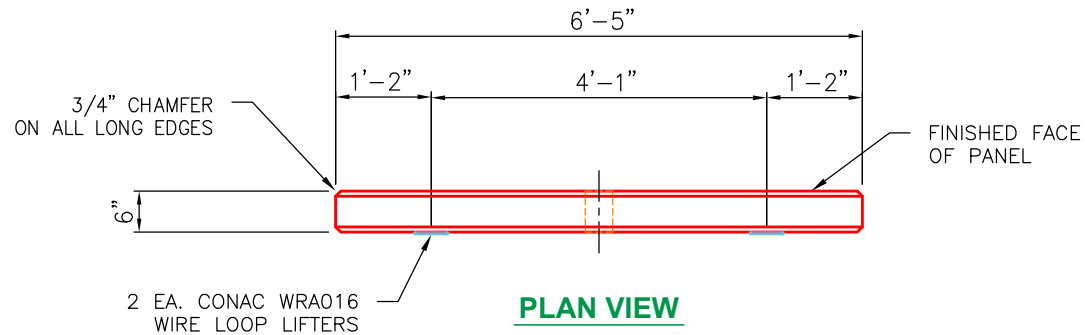
END VIEW

GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 914 LBS
6. 21 REQUIRED.

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 24" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:23:36 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P23-P24											
P2 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG 1) Hole - 2						1398 lb 932 lb 932 lb 0 lb ----- Structure Total: 3261 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETER = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)			
Rim: 691' Rim to Invert: 1.5' Slack: 0" Sump: 66" 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											
(P3) (P2) << (P1) RIGHT-SIDE UP VIEW (int. dimensions)  Note: See attached typical drawing for reinforcing and lifting details. INSIDE WALL DIMENSIONS (P2) 6'-5" (77") 24" EXT											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 0" Floor Height: 0"		Height (Int): 24" Height (Ext): 24"		Weight (Net): 932 lb Volume (Net): 0.24cu.yd	



SIDE VIEW

END VIEW

GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 914 LBS
6. 21 REQUIRED.

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 24" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

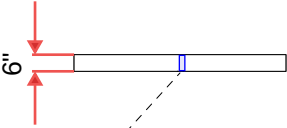
Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc				Plant: 100 6/16/2026 1:23:37 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P23-P24										
P3 CUSTOM WALL				WALL PANEL 6" THICK F/F						
P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG 1) Hole - 2						1398 lb 932 lb 932 lb 0 lb ----- Structure Total: 3261 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETER = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)		
Rim: 691' Rim to Invert: 1.5' Slack: 0" Sump: 66" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	689.5'	0°	38.5"	2" WEEP HOLE	2"	Hole 2	2"	2"	18"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P3) <<

(P2)

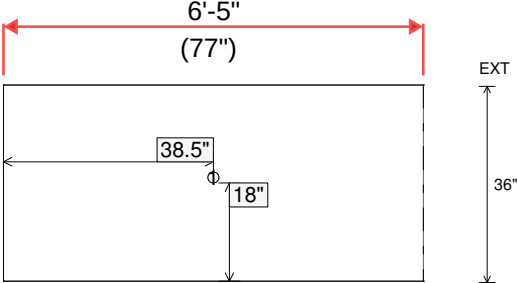
(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

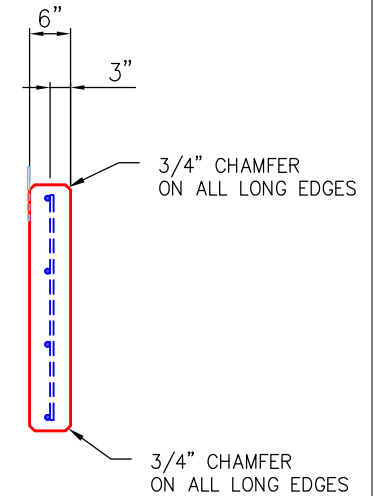
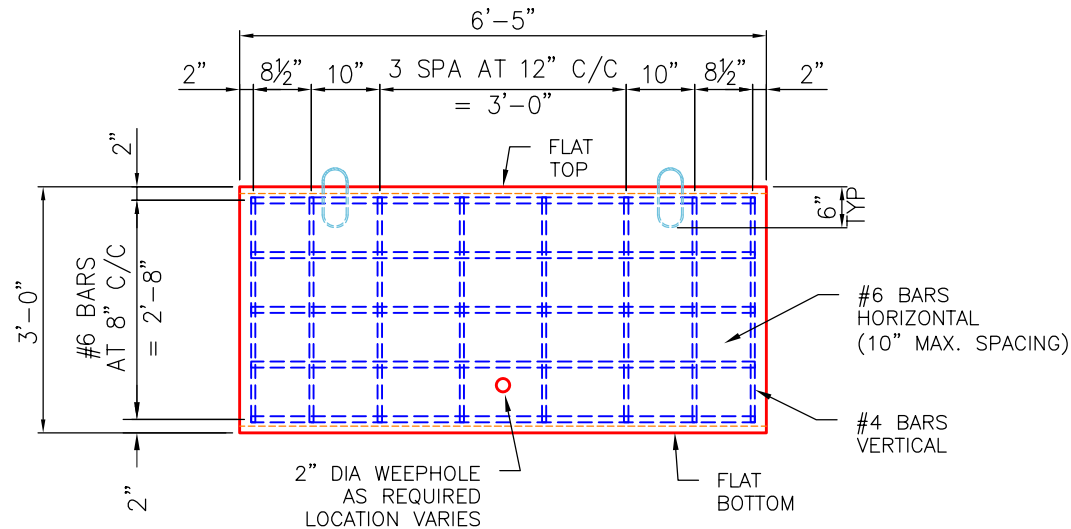
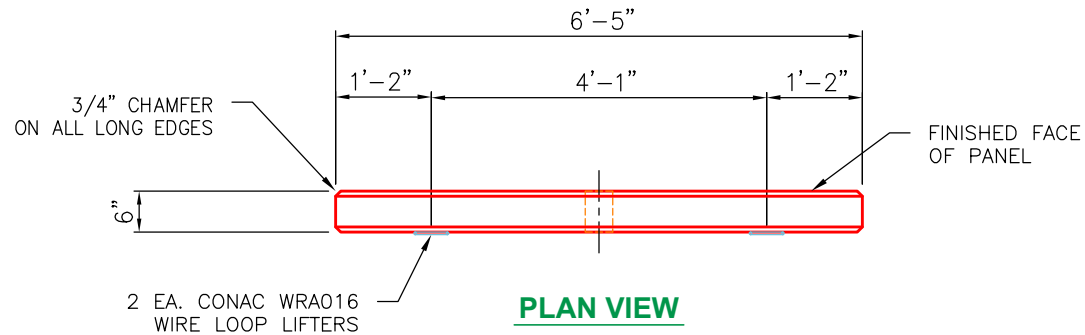


Note: See attached typical drawing for reinforcing and lifting details.

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 0" Floor Height: 0"	Height (Int): 36" Height (Ext): 36"	Weight (Net): 1398 lb Volume (Net): 0.36cu.yd
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GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

END VIEW

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project

Job Location: Louisville, KY 40118

Contractor: Hall Contracting of Kentucky Inc

Plant: 100

6/16/2026 1:23:34 PM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: WALL P20-P21

P2 CUSTOM WALL

WALL PANEL 6" THICK F/F

P3) 77" x 6" - WALL PANEL 6" THICK F/F - 1.00' HT x 6.42' LONG

P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

1) Hole - 2

466 lb

1398 lb

1398 lb

0 lb

Structure Total: 3261 lb

Structure Notes: .

1. PER ASTM C913 SPECIFICATIONS.

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

3. SMOOTH FORM FINISH ON THE FRONT SURFACE.

4. 3/4" CHAMFER ON ALL LONG EDGES.

REINFORCING PER ASTM A615 (GRADE 60).

-VERTICAL BARS = #4 BARS AT 12" C/C

-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)

Rim: 692'

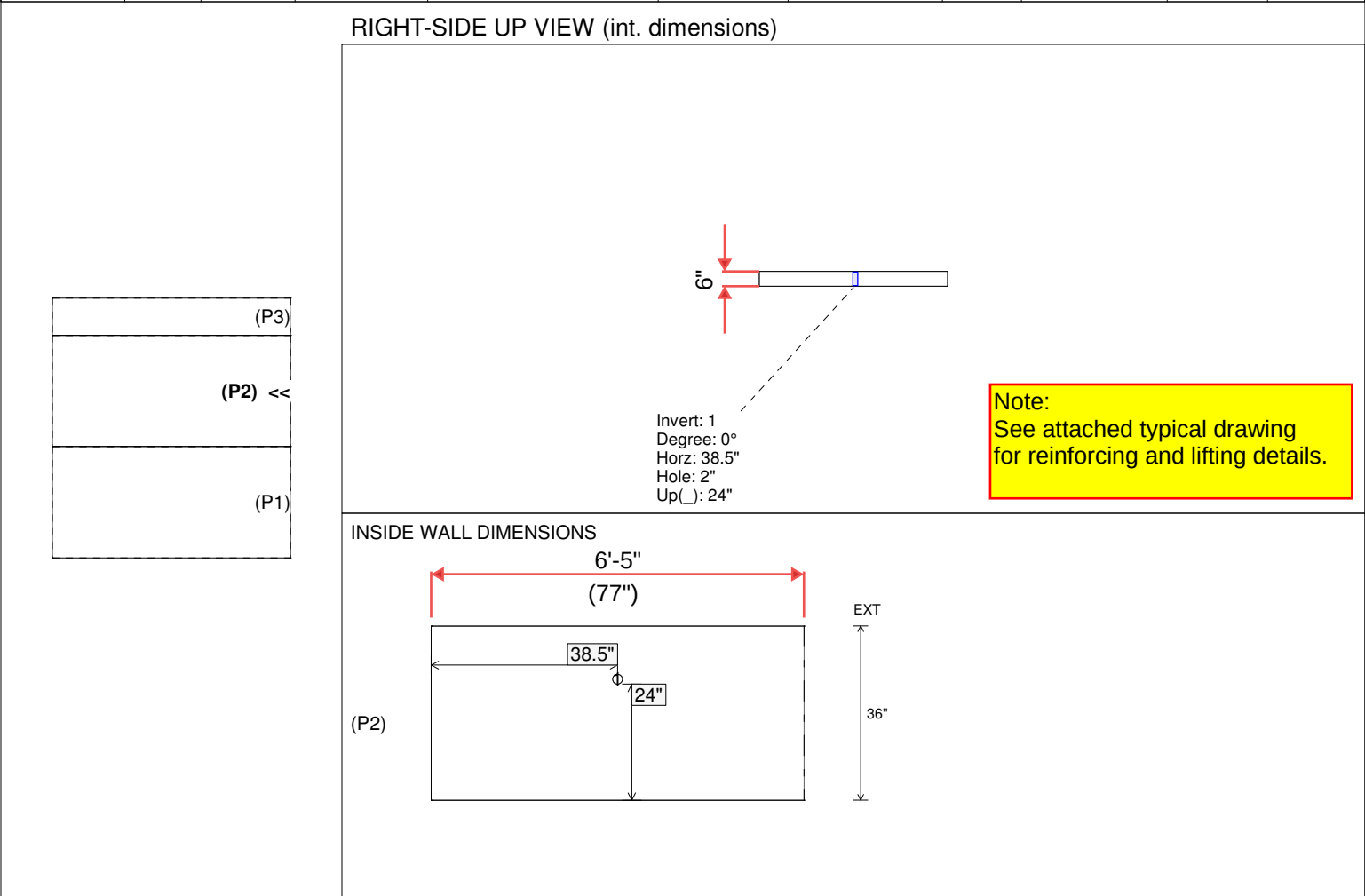
Rim to Invert: 2'

Slack: 0"

Sump: 60"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	690'	0°	38.5"	2" WEEP HOLE	2"	Hole 2	2"	2"	24"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Flat

Wall Thickness: 0"

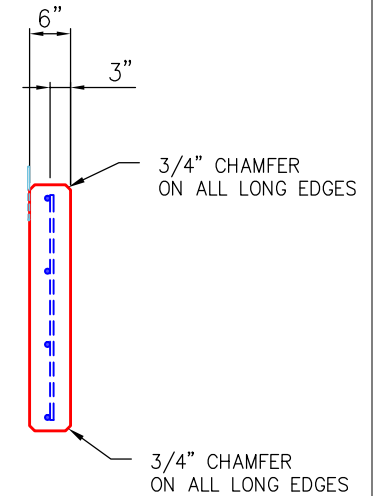
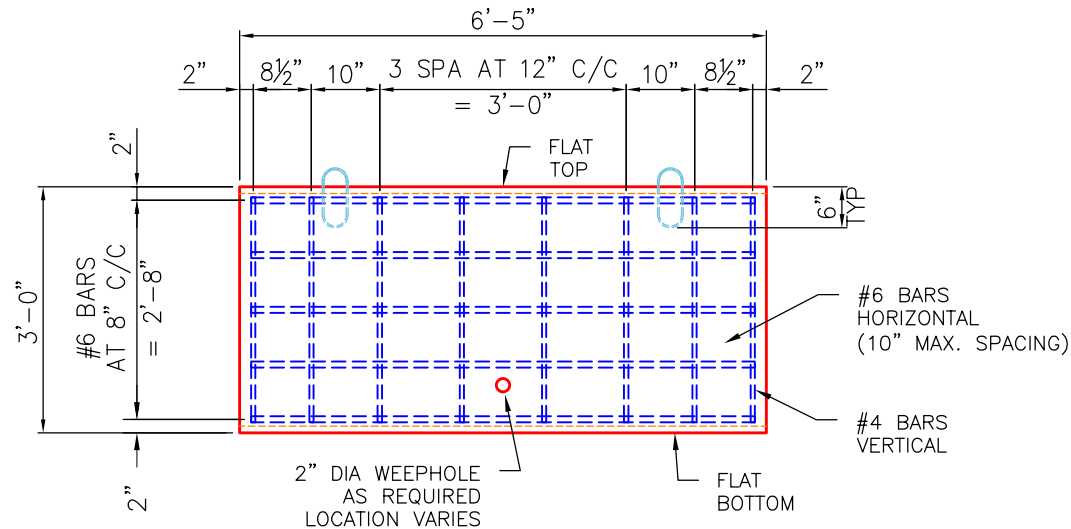
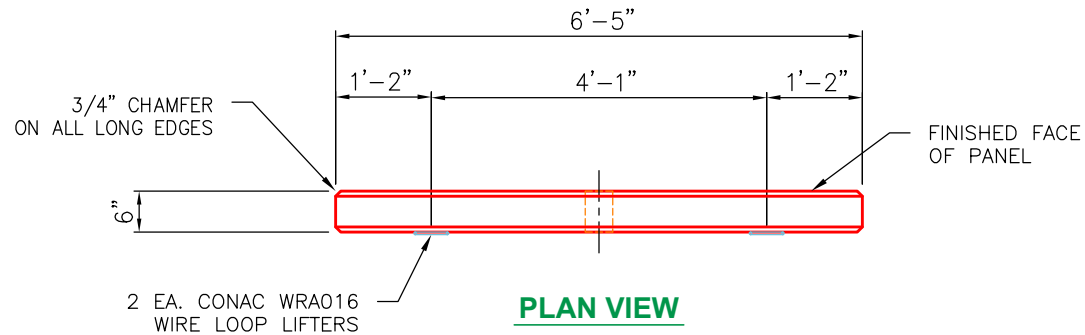
Floor Height: 0"

Height (Int): 36"

Height (Ext): 36"

Weight (Net): 1398 lb

Volume (Net): 0.36cu.yd



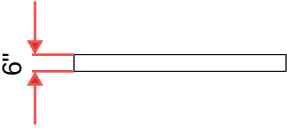
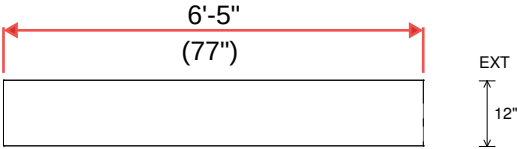
GENERAL NOTES:

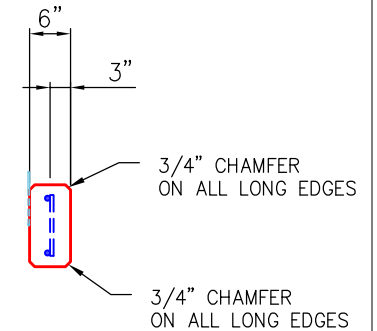
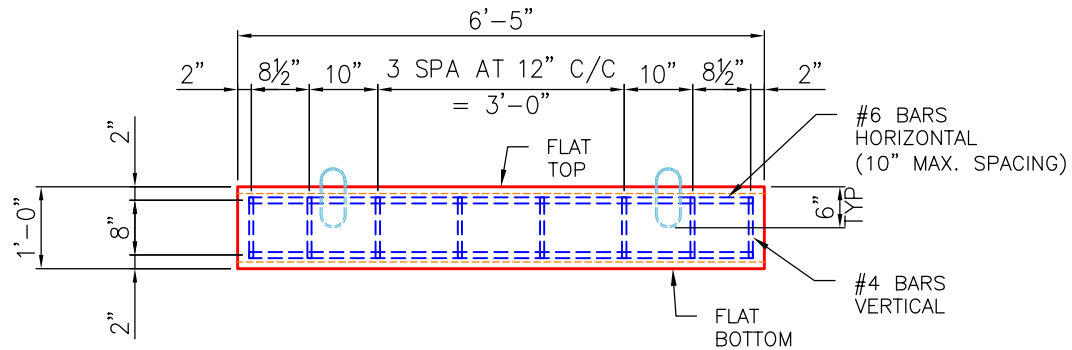
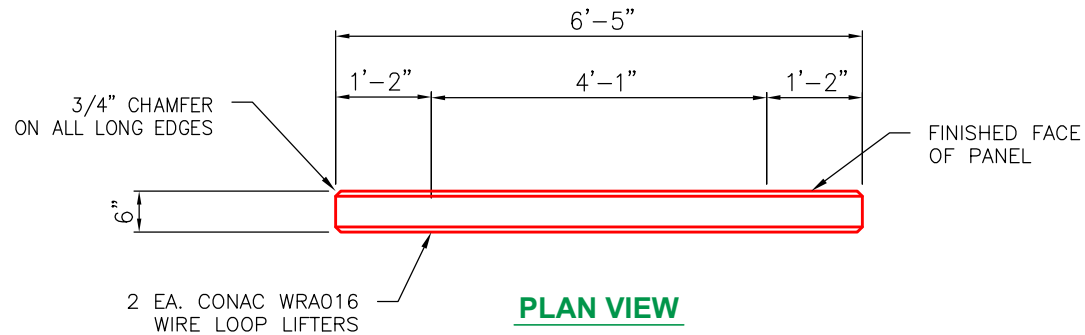
1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

END VIEW

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:23:35 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P20-P21											
P3 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P3) 77" x 6" - WALL PANEL 6" THICK F/F - 1.00' HT x 6.42' LONG P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG 1) Hole - 2						466 lb 1398 lb 1398 lb 0 lb ----- Structure Total: 3261 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28" DAYS. 3. SMOOTH FORM FINISH ON THE FRONT SURFACE. 4. 3/4" CHAMFER ON ALL LONG EDGES. REINFORCING PER ASTM A615 (GRADE 60). -VERTICAL BARS = #4 BARS AT 12" C/C -HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)			
Rim: 692'		Rim to Invert: 2'		Slack: 0"		Sump: 60"		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											
(P3) << (P2) (P1) RIGHT-SIDE UP VIEW (int. dimensions)  Note: See attached typical drawing for reinforcing and lifting details. INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 0" Floor Height: 0"		Height (Int): 12" Height (Ext): 12"		Weight (Net): 466 lb Volume (Net): 0.12cu.yd	



GENERAL NOTES:

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 472 LBS
6. 1 REQUIRED.

REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 12" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:15 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 4-62050-2

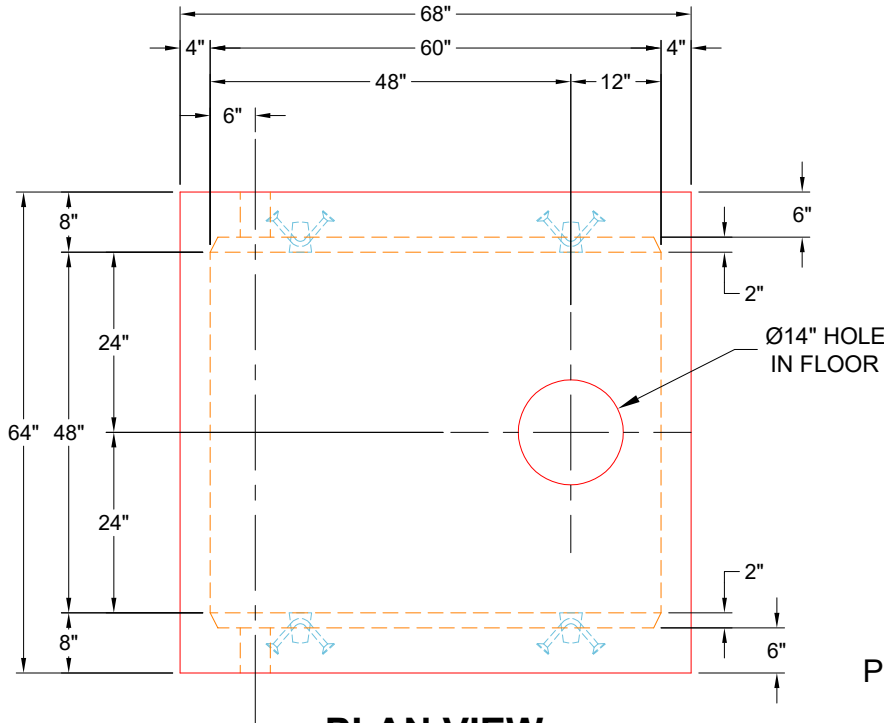
P1 BX4860-04W08F-BAVF

BOX BASE 4inW, 8inF, Variable Ht

P2) 48" x 60" - CASTING HEIGHT - 0"
P1) 48" x 60" - BOX BASE 4inW, 8inF, Variable Ht - 26"
1) 48" x 60" - Conseal CS-102 1.00"
2) Orifice - 4"

0 lb
4572 lb
0 lb
0 lb
Structure Total: 4572 lb

Structure Notes:
A) PER ASTM C913.
B) CONCRETE = 5,000 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).



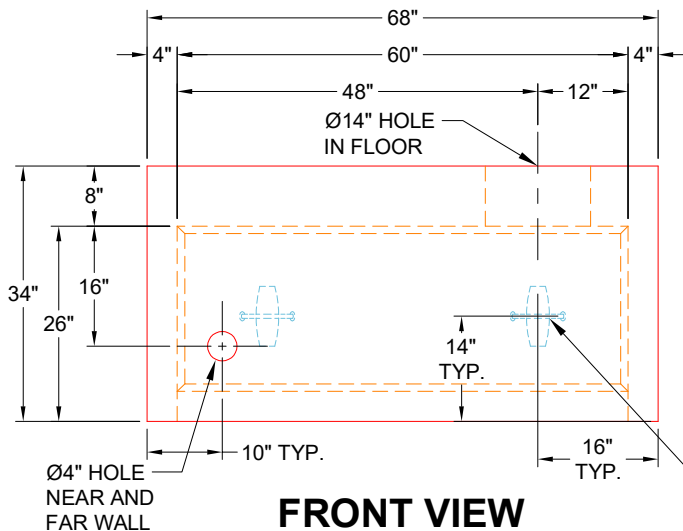
PLAN VIEW
UPSIDE DOWN

GENERAL NOTES:

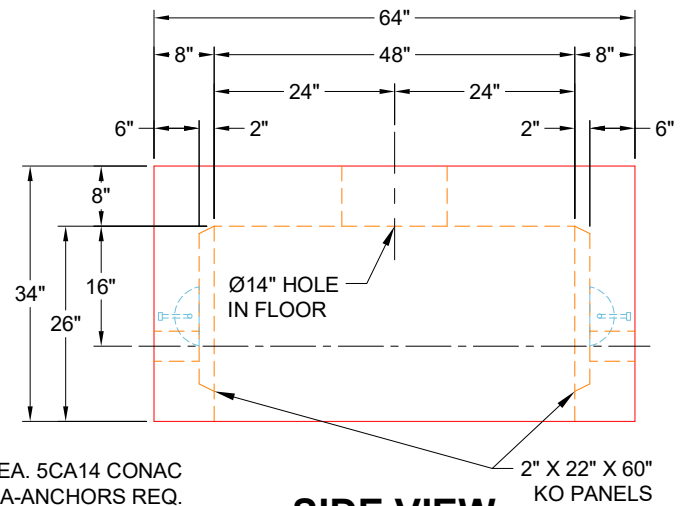
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ATTACHED REINFORCEMENT DRAWINGS PER A614 GRADE 60 MIN. 1½" MIN. REBAR CLEARANCE
4. WEIGHT: 4,572 LBS
5. JOINT SEALANT: CONSEAL CS-102 - 1" (PRIMARY & SECONDARY ROWS)
6. NOSING KIT SUPPLIED BY ICAST

PRODUCTION NOTE

PLEASE USE SPECIFIC VSG 48" X 60" MOLD FOR THIS STRUCTURE



FRONT VIEW
UPSIDE DOWN



SIDE VIEW
UPSIDE DOWN

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 4"
Floor Height: 8"

Height (Int): 26"
Height (Ext): 34"

Weight (Net): 4572 lb
Volume (Net): 1.17cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:15 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 4-62050-2

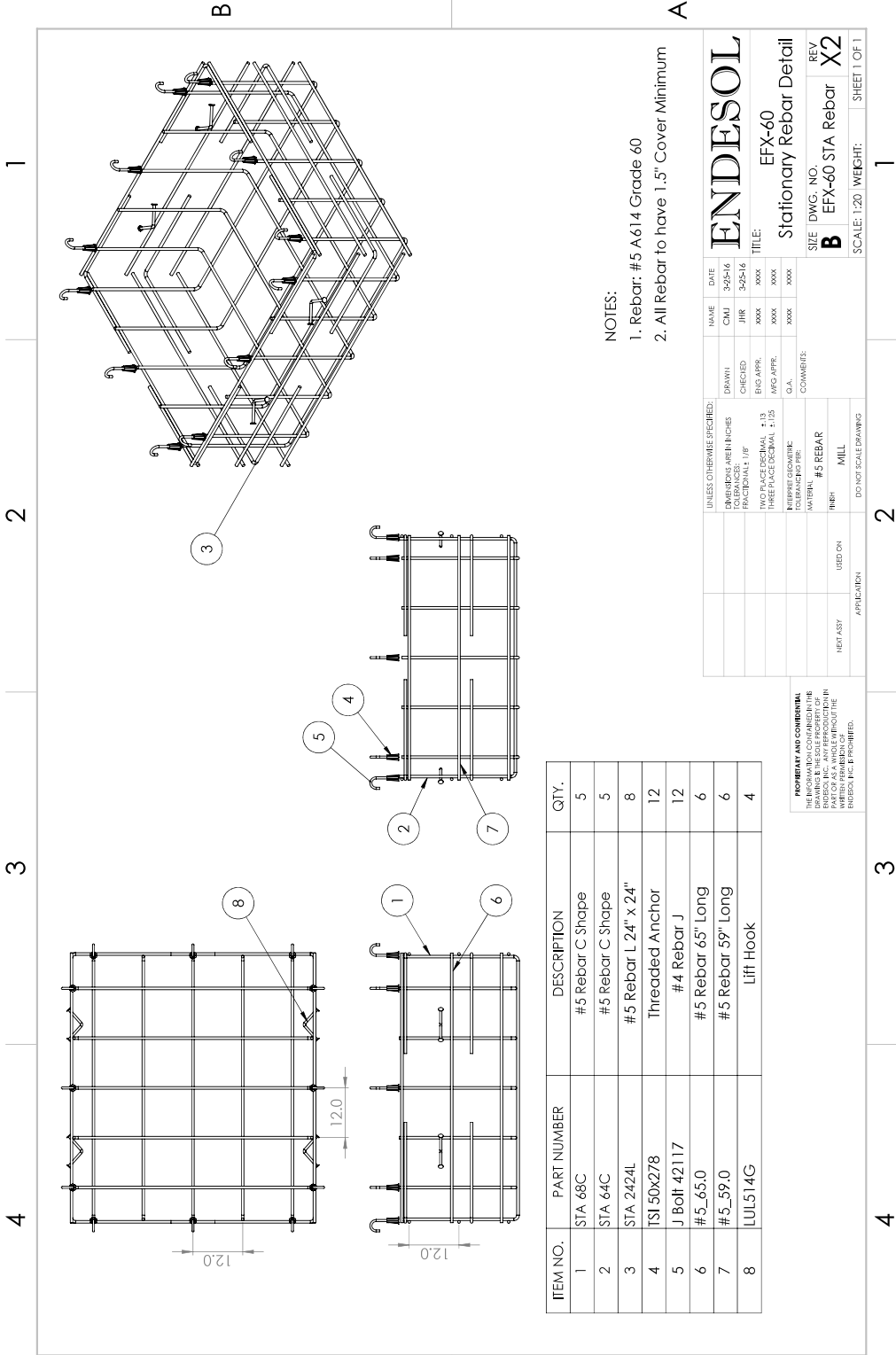
P1 BX4860-04W08F-BAVF

BOX BASE 4inW, 8inF, Variable Ht

- P2) 48" x 60" - CASTING HEIGHT - 0"
P1) 48" x 60" - BOX BASE 4inW, 8inF, Variable Ht - 26"
1) 48" x 60" - Conseal CS-102 1.00"
2) Orifice - 4"

Structure Notes: .
A) PER ASTM C913.
B) CONCRETE = 5,000 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

Structure Total: 4572 lb



- NOTES:
1. Rebar: #5 A614 Grade 60
2. All Rebar to have 1.5" Cover Minimum

ENDESOL				Stationary Rebar Detail			
NAME	DATE	CMU	JHR	SIZE	DWG. NO.	REV	
CMU	3-25-16	JHR	3-25-16	B	EFX-60	STA Rebar	X2
CHECKED		ENG APPR.	XXXX	XXXX			
ENG APPR.		XXXX	XXXX	XXXX			
WFG APPR.		XXXX	XXXX	XXXX			
Q.A.		XXXX	XXXX	XXXX			
COMMENTS:				SCALE: 1:20 WEIGHT: SHEET 1 OF 1			
UNLESS OTHERWISE SPECIFIED:				DO NOT SCALE DRAWING			
DIMENSIONS ARE IN INCHES							
FRACTIONS 1/8"							
TWO PLACE DECIMAL ± 1/32							
THREE PLACE DECIMAL ± 1/128							
TOLERANCES:							
MATERIAL #5 REBAR							
TOLERANCE PER							
RND							
MILL							
USED ON							
APPLICATION							
HEAT TREAT							

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	STA 68C	#5 Rebar C Shape	5
2	STA 64C	#5 Rebar C Shape	5
3	STA 2424L	#5 Rebar L 24" x 24"	8
4	TSI 50x278	Threaded Anchor	12
5	J Bolt 42117	#4 Rebar J	12
6	#5_65.0	#5 Rebar 65" Long	6
7	#5_59.0	#5 Rebar 59" Long	6
8	LUL514G	Lift Hook	4

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 4"
Floor Height: 8"

Height (Int): 26"
Height (Ext): 34"

Weight (Net): 4572 lb
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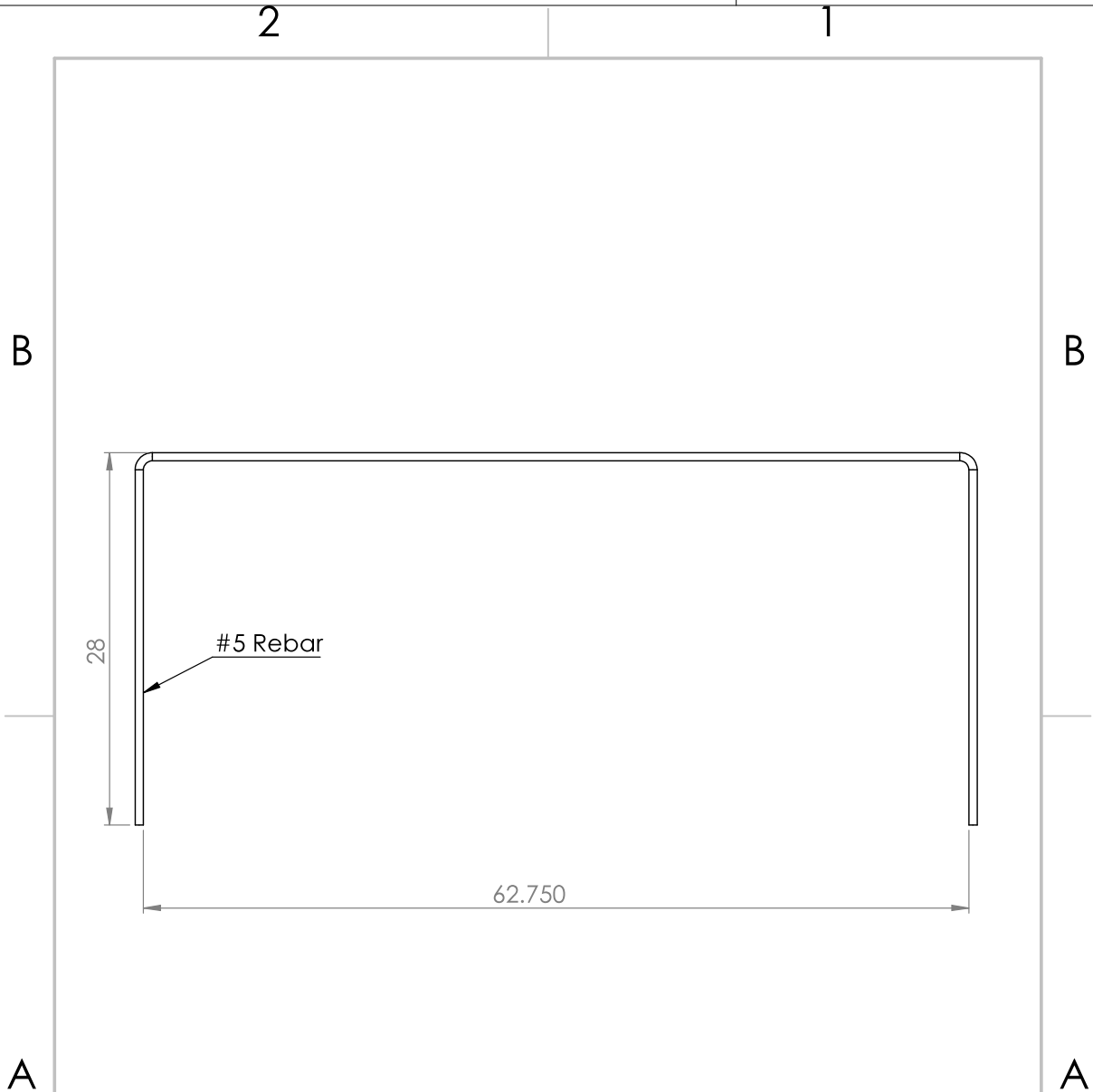
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P1) 48" x 60" - BOX BASE 4inW, 8inF, Variable Ht - 26"
1) 48" x 60" - Conesal CS-102 1.00"
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Structure Notes: .
A) PER ASTM C913.
B) CONCRETE = 5,000 PSI AT 28 DAYS.
C) REINFORCING PER ASTM A615 (GRADE 60).

0 lb
4572 lb
0 lb
0 lb

Structure Total: 4572 lb



981 W. 7th Street
Beaver Dam, KY
42320
P 270-363-2238
F 270-363-2234
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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL
ANGULAR: MACH BEND
TWO PLACE DECIMAL
THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar C
Shape

SIZE DWG. NO. STA 68C REV.
A
SCALE:1:50 WEIGHT: SHEET 1 OF 1

2

1

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 4"
Floor Height: 8"

Height (Int): 26"
Height (Ext): 34"

Weight (Net): 4572 lb
Volume (Net): 1.17cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:15 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 4-62050-2

P1 BX4860-04W08F-BAVF

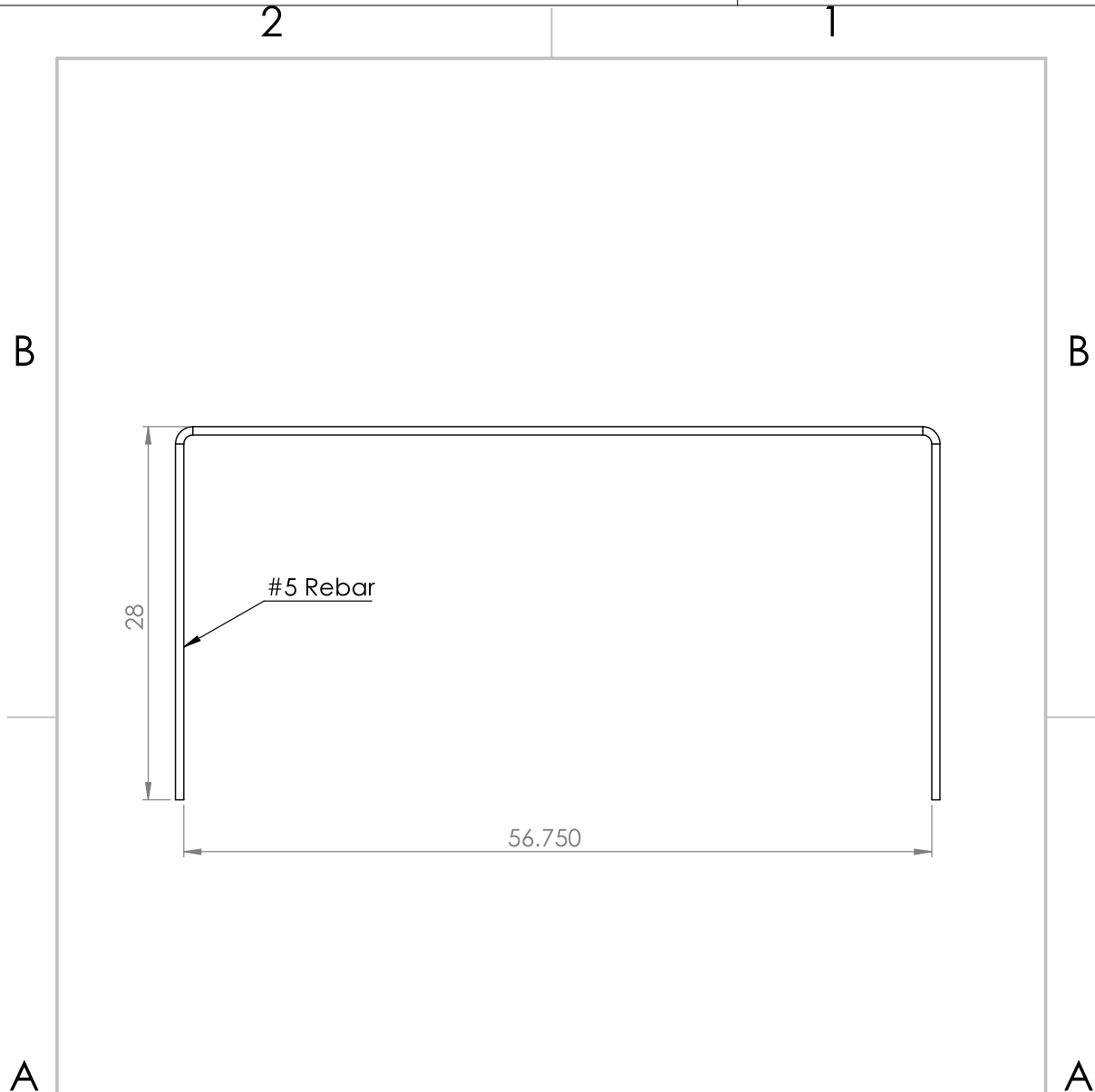
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Structure Notes: .
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C) REINFORCING PER ASTM A615 (GRADE 60).

0 lb
4572 lb
0 lb
0 lb

Structure Total: 4572 lb



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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL
ANGULAR: MACH BEND
TWO PLACE DECIMAL
THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar C
Shape

SIZE DWG. NO. STA 64C REV.
A
SCALE: 1:50 WEIGHT: SHEET 1 OF 1

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 4"
Floor Height: 8"

Height (Int): 26"
Height (Ext): 34"

Weight (Net): 4572 lb
Volume (Net): 1.17cu.yd

Job Name: 26-2049 - VSG 691257163
Job Location: CPU
Contractor: Endesol, Inc.

Plant: Beaver Dam
8/19/2026 2:10:15 PM

Tech: J. Coppage
PC: E. Bradley



Structure ID: 4-62050-2

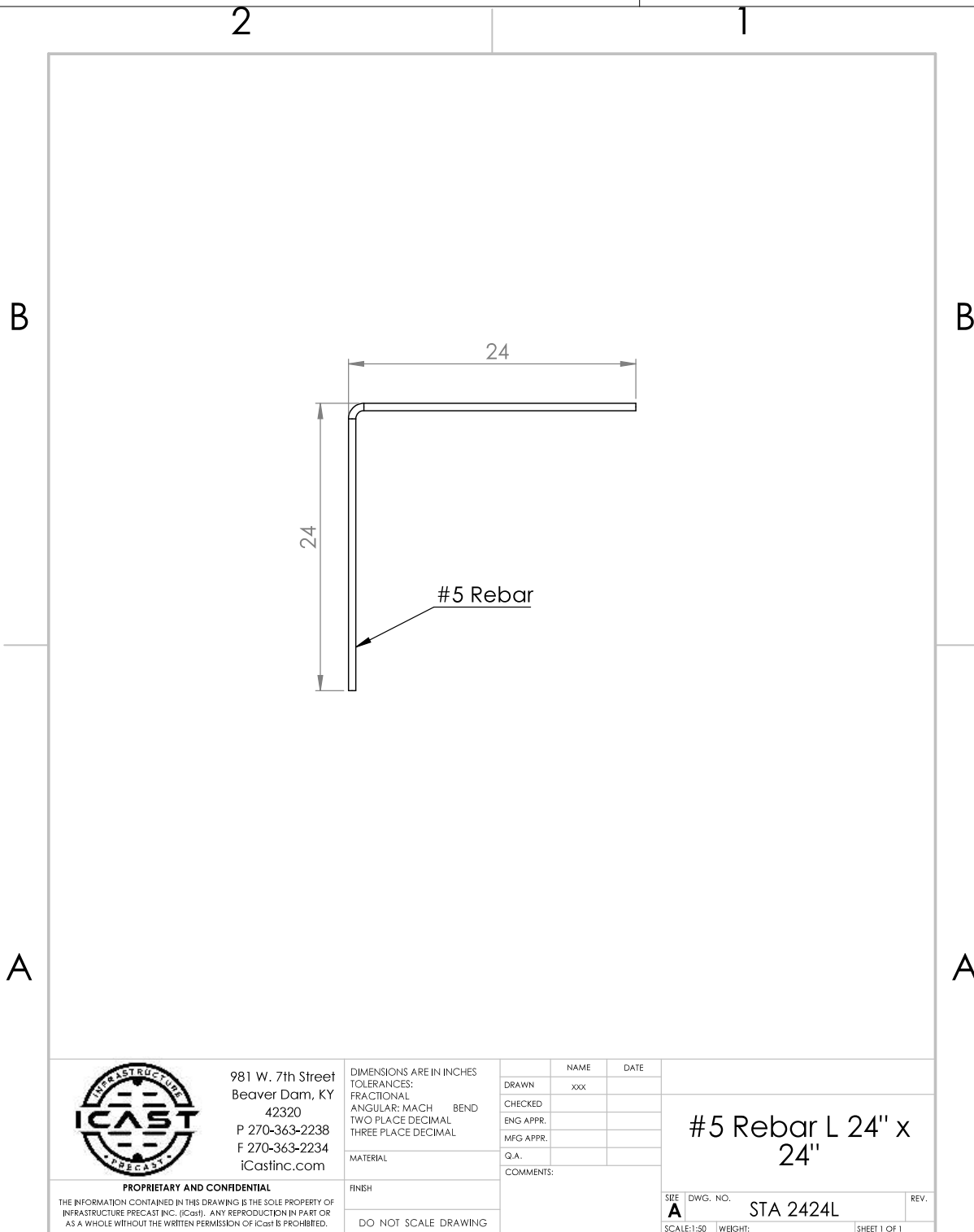
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Structure Notes: .
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C) REINFORCING PER ASTM A615 (GRADE 60).

Structure Total: 4572 lb



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 4"
Floor Height: 8"

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