

Job Name: 25-4593 - 823277 Central Ramp Expansion BNA
 Job Location: Nashville, TN
 Contractor: Contech Engineering Solutions

Plant: Beaver Dam, KY
 12/2/2025 11:09:48 AM

Tech: J. Coppage
 PC: T. Sekula



Structure ID: 025-CDS5678-10-C

P3 MH120RSVF

MH RISER Custom Ht

- P11) 24" - CASTING HEIGHT - 0" 0 lb
- P10) 72" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) - 25" 8609 lb
- P9) 72" - MH RISER - 60" 8747 lb
- P8) 72" - MH RISER - 84" 12246 lb
- P7) 72" - MH RISER - 84" 12246 lb
- P6) 120" - MH Transition Slab 72" Spec. w/(2) 24" Holes - 22" 22335 lb
- P5) 120" - MH RISER - 84" 31909 lb
- P4) 120" - MH RISER - 96" 33046 lb
- P3) 120" - MH RISER Custom Ht - 90" 34189 lb
- P2) 120" - MH RISER - 36" 13675 lb
- P1) 120" - MH SEPARATE BASE-T (142" OD) - 8" 17421 lb
- 1) CVSTENCILING 0 lb
- 1) This Structure Includes a Cast-in Item - (2 Ea. Castings) 0 lb
- 1) SECONDARY POUR - Separation Slab* 10292 lb
- 5) 120" - Conseal CS-102 1.00" 0 lb
- 4) 72" - Conseal CS-102 1.00" 0 lb

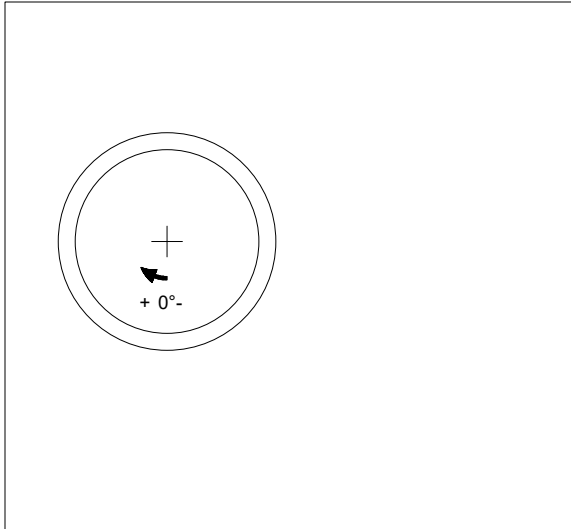
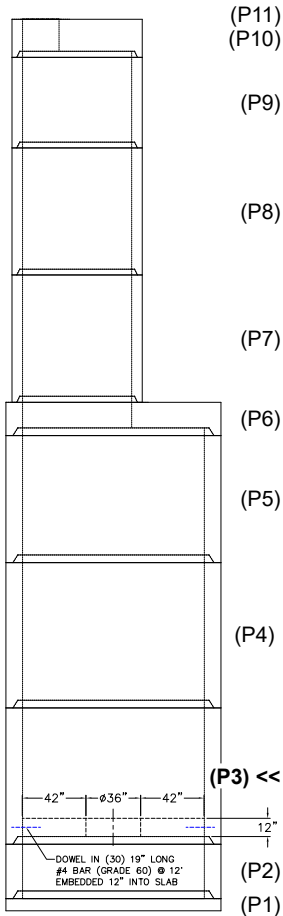
****USE REINFORCEMENT
 INFORMATION PROVIDED
 BY CONTECH****

- Structure Notes:**
1. PER ASTM C-478 SPECS
 2. CONCRETE: 7,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615 (GRADE 60)
 4. 2 EA. CAST-IN CASTINGS PROVIDED BY OTHERS
 5. CASTINGS TO BE CAST INTO FLAT LID FLANGE SIDE UP
- SPECIAL NOTES:**
1. LIFTING HOOKS TO BE INSTALLED ON THE INSIDE OF THE STRUCTURE
 2. CONTECH'S LOGO AS WELL AS INLET & OUTLET MUST BE STENCILED ONTO STRUCTURE
 3. INTERNALS TO BE INSTALLED BY OTHERS

2) Rim to Invert: 35.3' Slack: -0.44" Sump: 156.96" Step Position 0

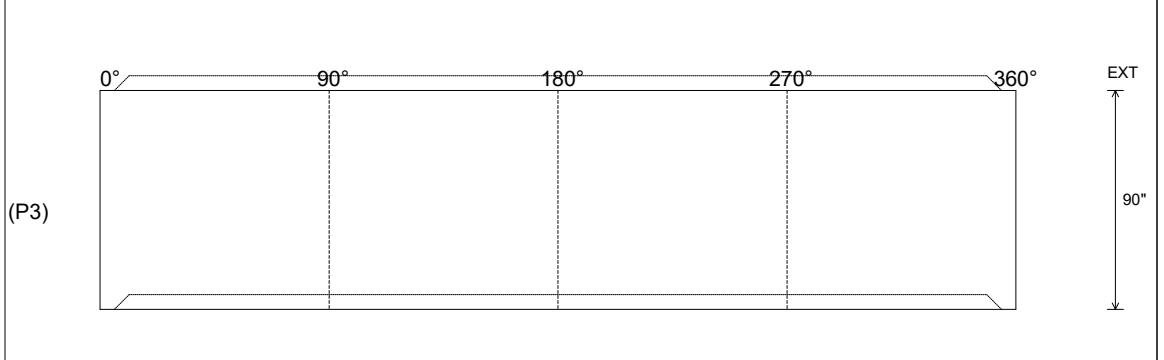
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



FIRST POUR DRAWING WEIGHTS
FIRST POUR - RISER WALLS - 34,189 LBS.
SECOND POUR - SEP. SLAB - 10,292 LBS.
TOTAL - RISER W/ SEP. SLAB - 44,481 LBS.

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 11" Floor Height: 0"	Height (Int): 90" Height (Ext): 90"	Weight (Net): 34189 lb Volume (Net): 8.73cu.yd
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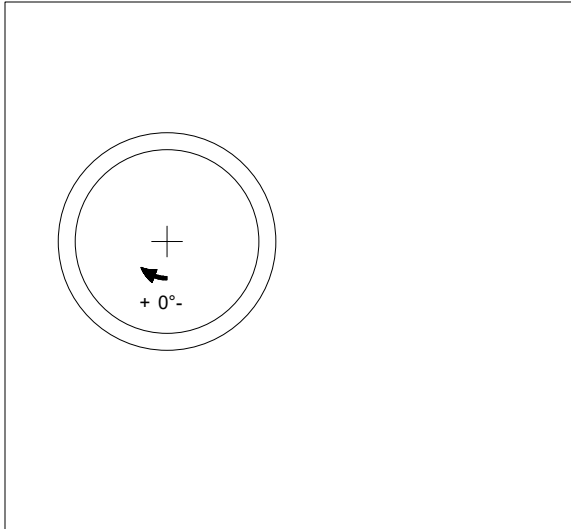
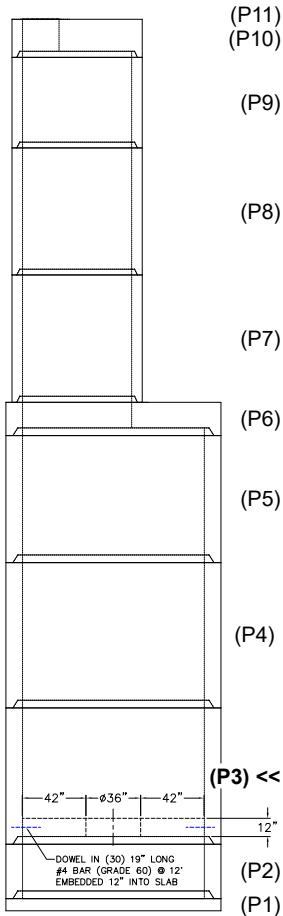
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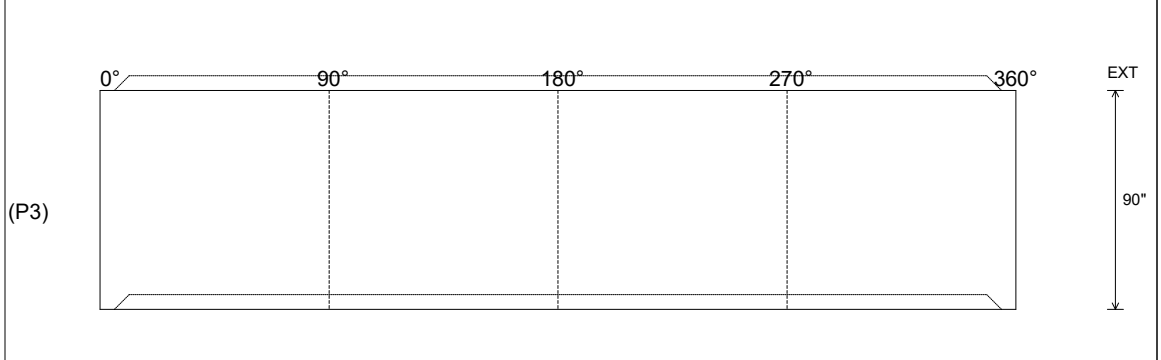
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Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



SECOND POUR DRAWING
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25-4593 RISER REINFORCEMENT 025-CDS5678-10-C

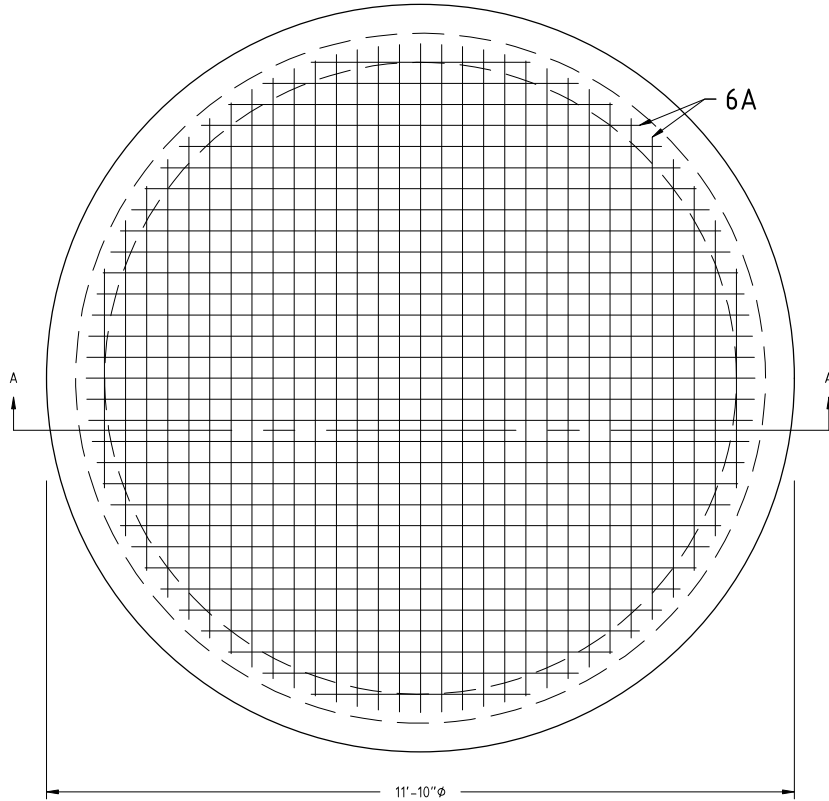
DESIGN NOTE:

AIRCRAFT LOADING - 80 KIP WHEEL LOAD - 17.19"x12.68" TIRE FOOTPRINT
 WATER TABLE AT FINISHED GRADE
 DESIGN CONFORMS TO AASHTO LRFD
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 7000 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN SPLICE LENGTHS: #3-17" #4-22" #5-28" #6-33"
 REBAR MIN BEND DIAMETERS: #3-2.25" #4-3" #5-3.75" #6-4.5"
 PLACE 4-#4 BAR DIAGONAL AROUND OPENING(S)

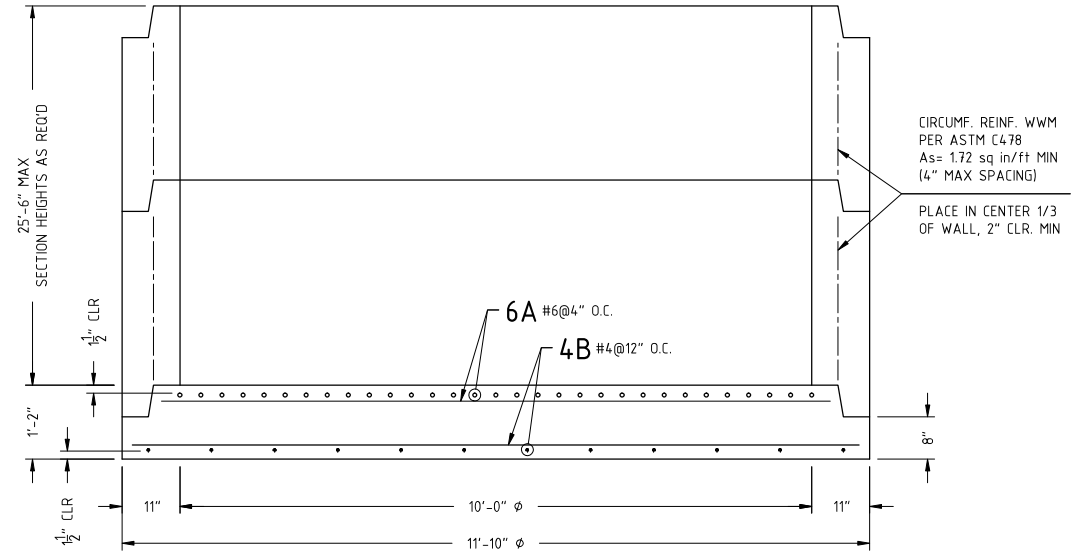
823277-25

REINFORCING STEEL SCHEDULE

MARK	NO.	LENGTH	TYPE	BENDING DIAGRAM O.D.
6A	62	10'-7" MAX	STR.	
4B	24	11'-6" MAX	STR.	



PLAN VIEW
(TOP MAT SHOWN)



SECTION A-A



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REVISIONS	
B	
C	
D	
E	

DRAWN BY: T.J.G.
 DESIGN BY: A.JEFFREY
 PLANT:
 SCALE: 1/2" = 1'

CONTECH - CDS - BASESLAB
 10'-0"Ø
 REINFORCEMENT

DATE: 10/21/25 11"x17" PAGE 1 OF 1

25-4593 SEPARATION SLAB 025-CDS5678-10-C

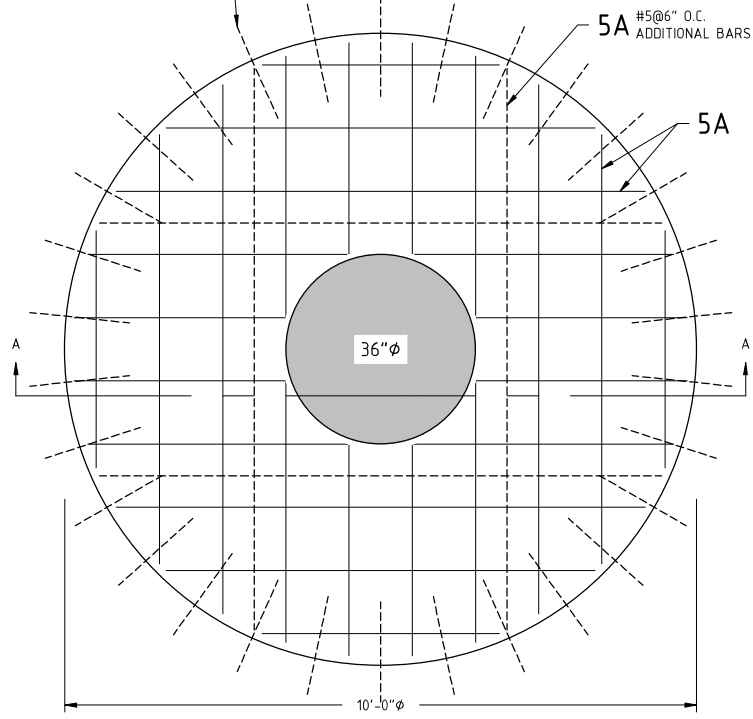
DESIGN NOTE:

INTERNAL COMPONENT LOADING
 DESIGN CONFORMS TO AASHTO LRFD
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 5000 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN SPLICE LENGTHS: #3-17" #4-22" #5-28" #6-33"
 REBAR MIN BEND DIAMETERS: #3-2.25" #4-3" #5-3.75" #6-4.5"
 PLACE 4-#4 BAR DIAGONAL AROUND OPENING(S)

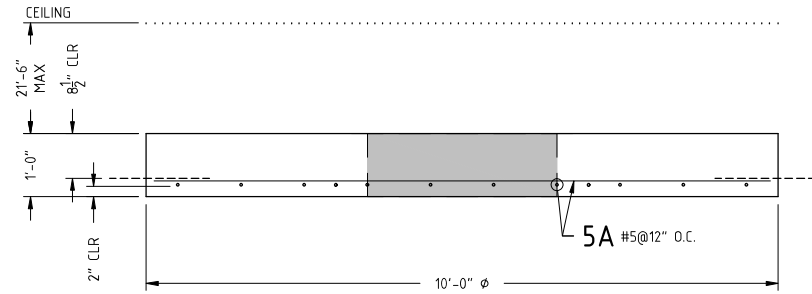
823277-25

REINFORCING STEEL SCHEDULE				
MARK	NO.	LENGTH	TYPE	BENDING DIAGRAM O.D.
5A	24	9'-9" MAX	STR.	

SEPARATION SLAB TO BE PRODUCED WITH SECONDARY POUR & DOWELED INTO RISER SECTION WALLS USING (30) #4x19" REBAR AT 12" EMBEDDED 12" INTO SLAB



PLAN VIEW



SECTION A-A



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REVISIONS	
B	
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DRAWN BY: T.J.G
 DESIGN BY: A.JEFFREY
 PLANT:
 SCALE: 1/2" = 1'

CONTECH - CDS SEPARATION SLAB 10'-0" Ø REINFORCEMENT		
DATE: 10/21/25	11"x17"	PAGE 1 OF 1