

Job Name: 25-3677 - 809335 Petersburg Park  
 Job Location: Louisville, KY  
 Contractor: Contech Engineering Solutions

Plant: Beaver Dam

Tech: J. Coppage

10/15/2025 11:51:50 AM

PC: T. Sekula



**Structure ID: 10-CS-4**

**P1 MH048BA18**

**MH BASE**

- P4) 30" - CASTING HEIGHT - 4"
- P3) 48" - MH FLAT LID w/30in ECC Hole - 12"
- P2) 48" - MH RISER Custom Ht - 57"
- P1) 48" - MH BASE - 18"
- 1) PSASSEMBLY
- 1) CVSTENCILING
- 2) 48" - Conseal CS-102 1.00"
- 2) Hole - 12

Structure Notes:  
 (4" TALL CASTING PROVIDED BY OTHERS)  
 LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE  
 ICAST TO INSTALL THE INTERNALS  
 CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENCILED ONTO THE STRUCTURE

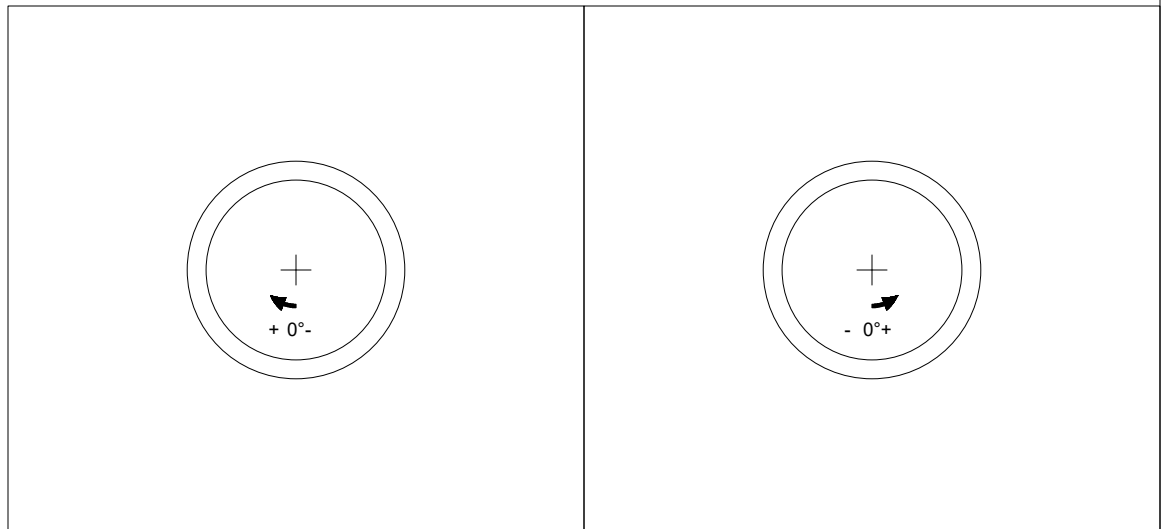
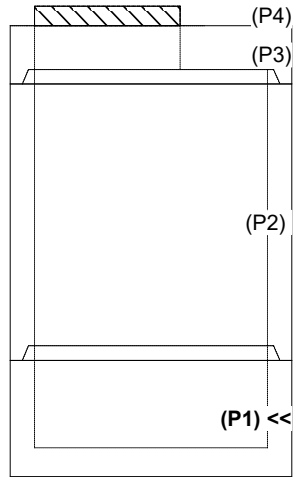
Structure Total: 7874 lb

Rim: 486.75' Rim to Invert: 3.55' Slack: 2.6" Sump: 51" Step Position:

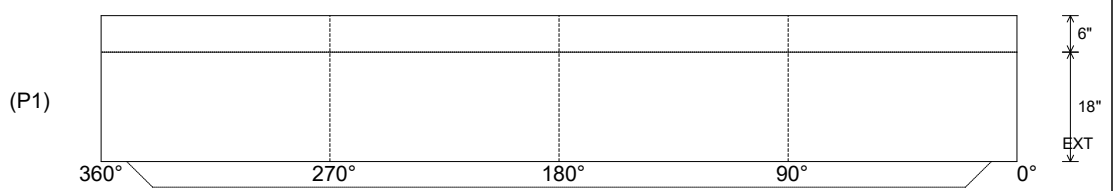
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): 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
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Job Name: 25-3677 - 809335 Petersburg Park  
 Job Location: Louisville, KY  
 Contractor: Contech Engineering Solutions

Plant: Beaver Dam  
 10/15/2025 11:52:15 AM

Tech: J. Coppage  
 PC: T. Sekula



**Structure ID: 10-CS-4**

**P2 MH048RSVF**

**MH RISER Custom Ht**

- P4) 30" - CASTING HEIGHT - 4"
- P3) 48" - MH FLAT LID w/30in ECC Hole - 12"
- P2) 48" - MH RISER Custom Ht - 57"
- P1) 48" - MH BASE - 18"
- 1) PSASSEMBLY
- 1) CVSTENCILING
- 2) 48" - Conseal CS-102 1.00"
- 2) Hole - 12"

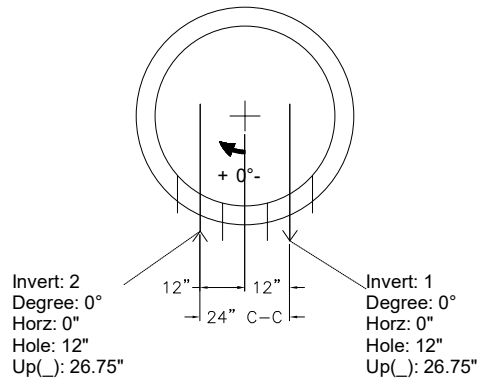
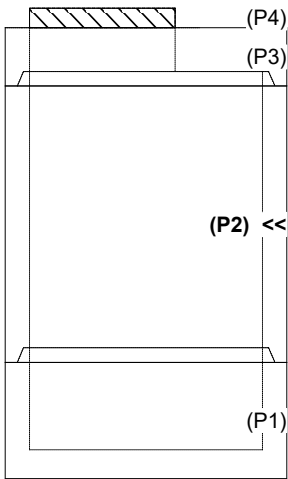
**Structure Notes:**  
 (4" TALL CASTING PROVIDED BY OTHERS)  
 LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE  
 ICAST TO INSTALL THE INTERNALS  
 CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENCILED ONTO THE STRUCTURE

0 lb  
 1413 lb  
 3873 lb  
 2588 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 7874 lb

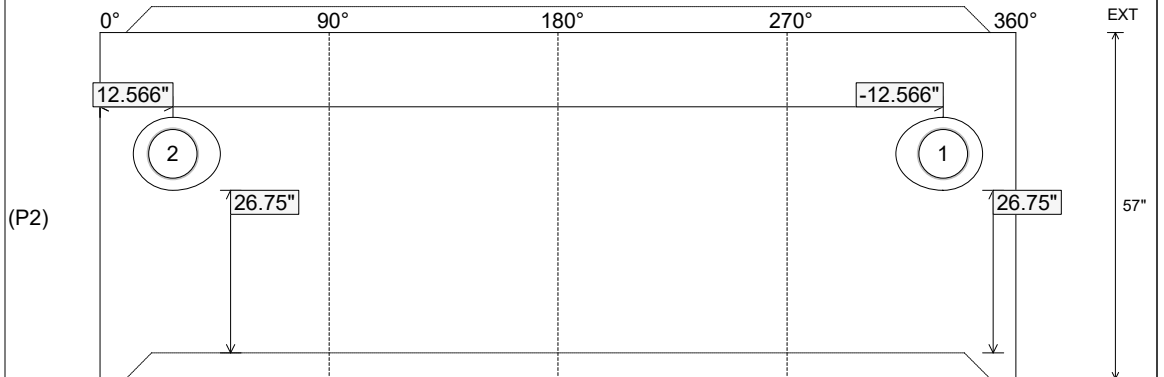
Rim: 486.75' Rim to Invert: 3.55' Slack: 2.6" Sump: 51" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	483.2'	0°	-12.372"	8" PVC SDR35	8.5"	Hole 12	12"	14.289"	26.75"	-12"
Invert 2	483.2'	0°	12.372"	8" PVC SDR35	8.5"	Hole 12	12"	14.289"	26.75"	12"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

**RIGHT-SIDE UP VIEW (int. dimensions)**

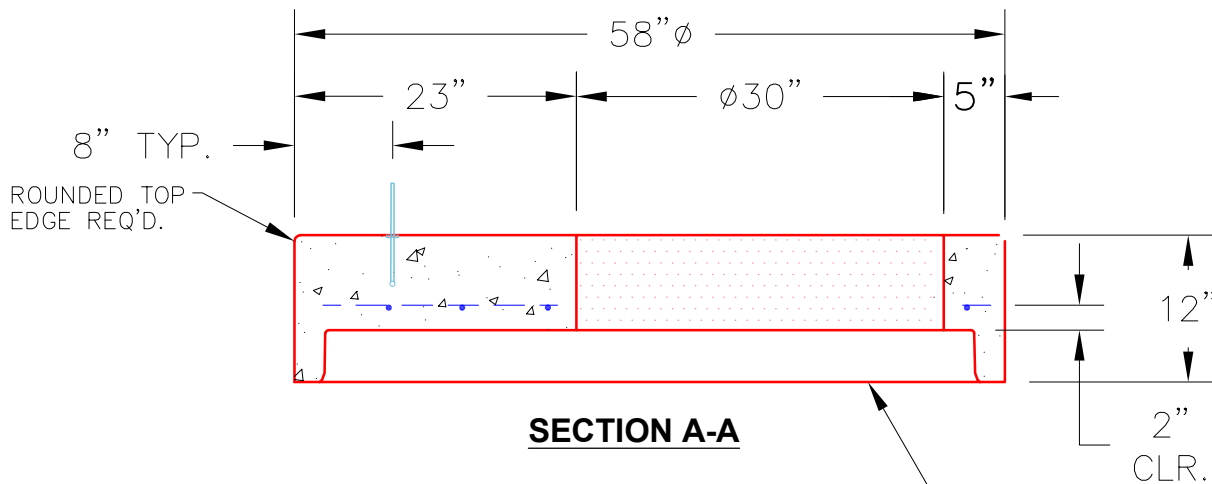
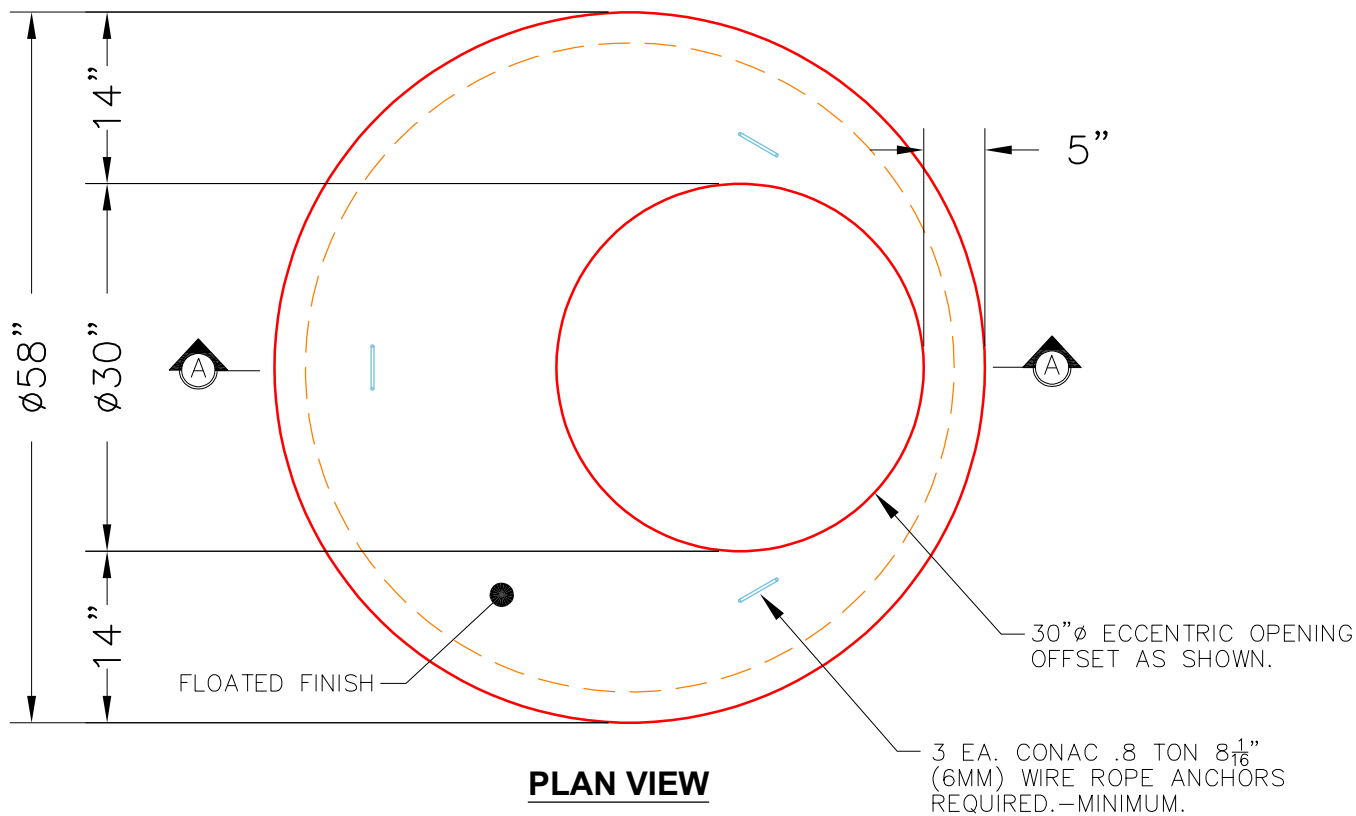


**INSIDE WALL DIMENSIONS**



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 57" Height (Ext): 57"	Weight (Net): 3873 lb Volume (Net): 0.99cu.yd
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THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR.



**NOTES:**

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #4 BAR @ 10" O.C. E.W. (GRADE 60).

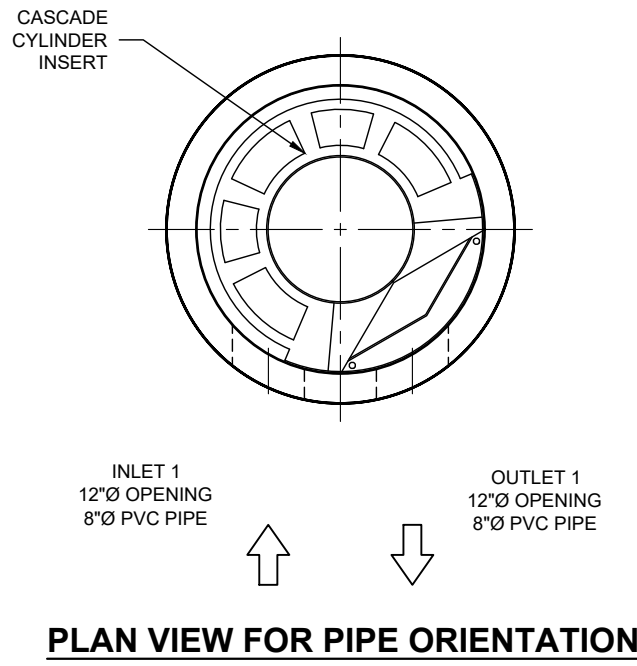
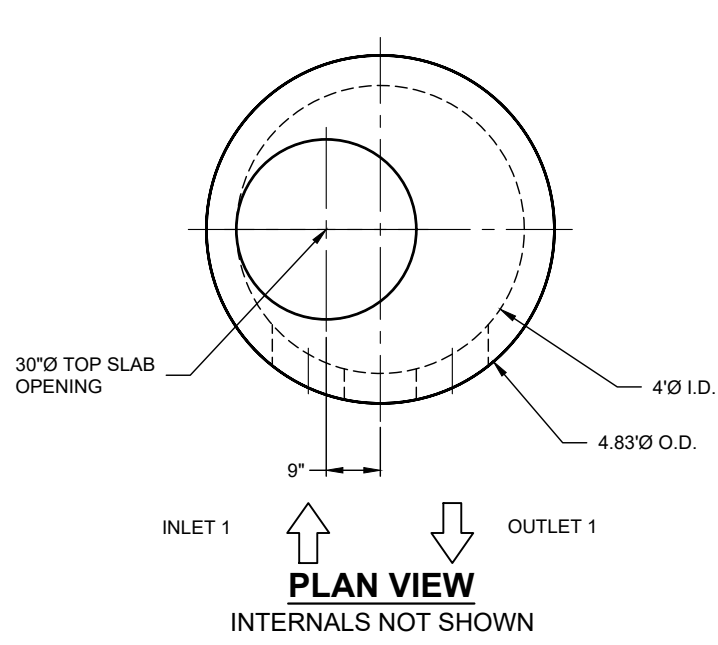
<b>PRODUCTION WORK ORDER</b>		PRODUCT I.D.: MH048LD12-30	DESCRIPTION: 48" $\phi$ X 12" MH TOP SLAB SPECIAL	
	QUALITY CONTROL CHECKLIST	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: CONTECH ENGINEERING SOLUTIONS	
	<input type="checkbox"/> ALL DIMENSIONS CORRECT.	PLANT: BEAVER DAM, KY.	PROJECT: 809335 PETERSBURG PARK	
	<input type="checkbox"/> LIFTERS INSTALLED.	WEIGHT: 1,413 LBS.	STRUCTURE: 10-CS-4	
	<input type="checkbox"/> HOLE LOCATION CORRECT.	TOP SECTION JOINT: N/A	QUOTE/SALES ORDER NO: 25-3677	
	<input type="checkbox"/> REINFORCING CORRECT.	BASE SECTION JOINT: GROOVE	PC: T. SEKULA	DRAWING: J. COPPAGE
<input type="checkbox"/> FINISH ON SLAB SURFACE UNIFORM.	QC CHECK INITIALS:	DATE: 10/15/25	SCALE: NTS	PG. 1 of 1
<input type="checkbox"/> OUTSIDE TOP EDGE TROWELLED.				
<input type="checkbox"/> GROOVE JOINT INSTALLED.				

25-3677

10-CS-4

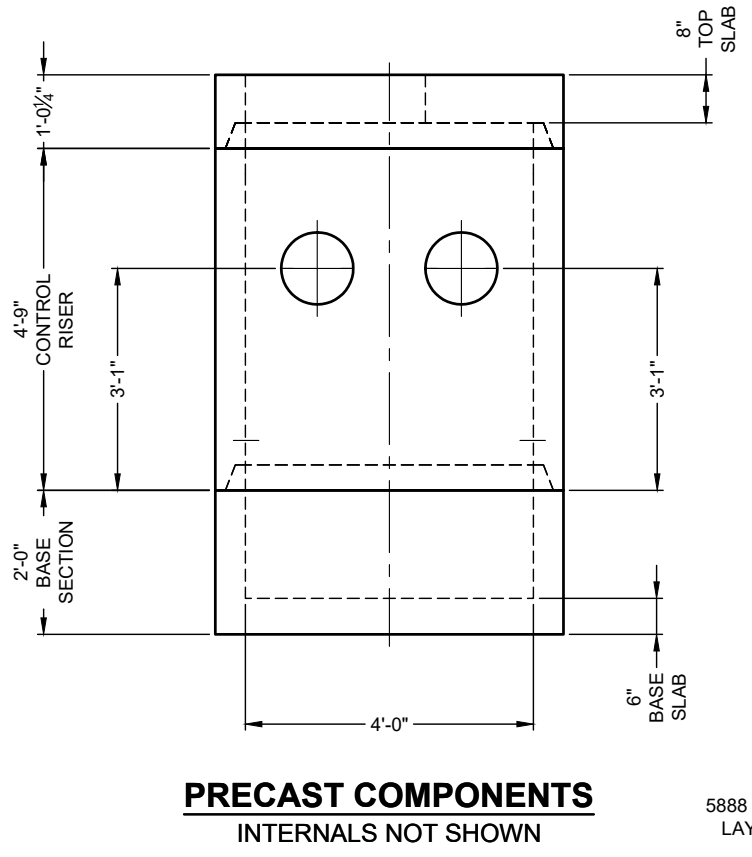
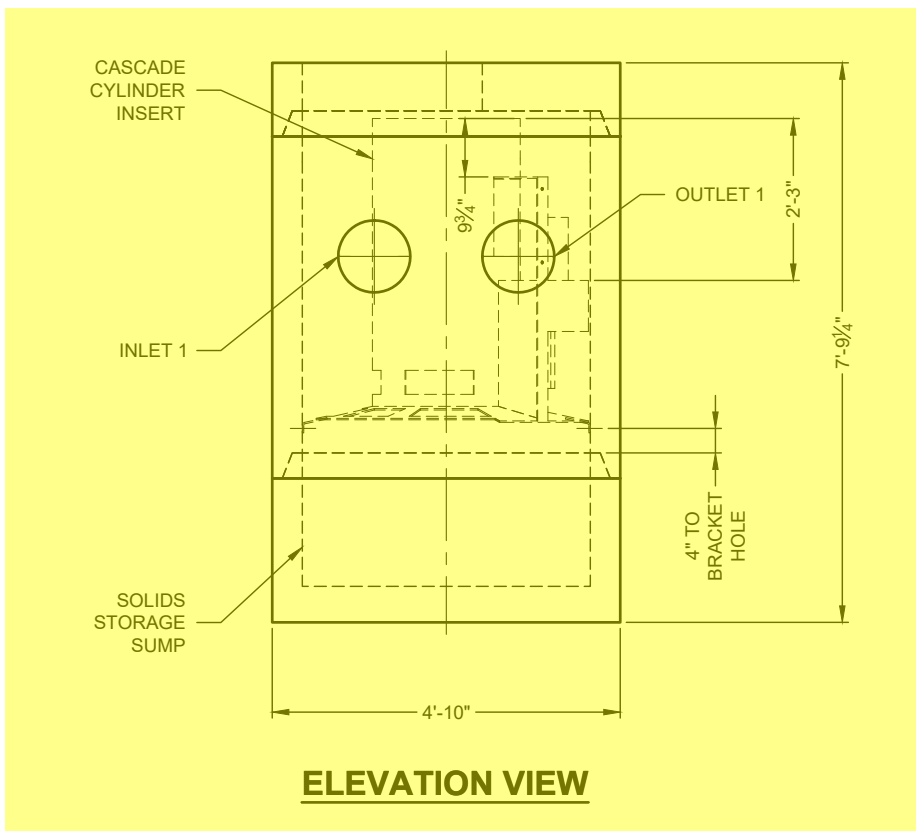
Structure must have  
Contech's logo as well  
as the inlet and outlet  
stenciled onto the  
structure.

# 25-3677 - 809335 Petersburg Park



**10-CS-4**  
**ICAST to fully pre-assemble**  
**internal materials prior to shipment.**

SEE INSTALLATION NOTE A



**MATERIAL LIST**

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-4 CYLINDER INSERT, STD.	325-003949	CONTECH	PRECASTER
4	CS-4 ALUMINUM INSTALLATION BRACKETS	325-003956	CONTECH	PRECASTER
1	CS-4 HARDWARE KIT	325-003955	CONTECH	PRECASTER
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
1	30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV.	325-000332	CONTECH	CONTRACTOR

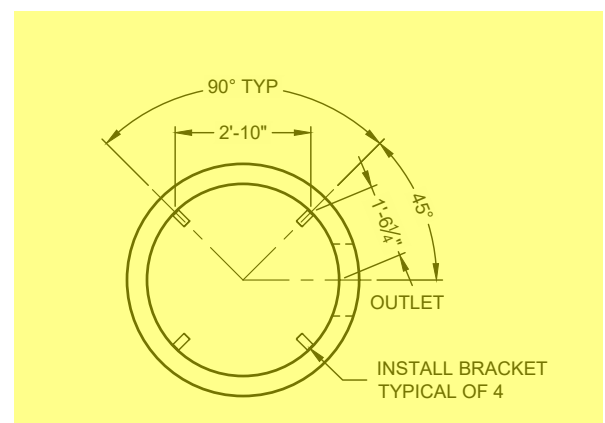
- GENERAL NOTES**
- DESIGN LOADING - AASHTO HS-20
  - ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
  - JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
  - GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
  - MANUFACTURING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

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

**SITE INFORMATION**  
 RIM ELEV. = 486.75+/-  
 TOP OF STRUCTURE = 486.22  
 INLET PIPE 1 INVERT ELEV. = 483.20  
 INLET PIPE 1 DIAMETER AND MATERIAL = 8"Ø PVC  
 OUTLET PIPE INVERT ELEV. = 483.20  
 OUTLET PIPE DIAMETER AND MATERIAL = 8"Ø PVC  
 OUTSIDE BOTTOM OF STRUCTURE ELEV. = 478.45

**STRUCTURE WEIGHT**  
 APPROXIMATE HEAVIEST PICK = 4500 LBS.  
 STRUCTURE IS DELIVERED IN 3 PIECES

TOP SLAB = 2000 LBS.  
 CONTROL RISER = 4500  
 BASE SECTION = 3000 LBS.



CONTECH  
**FABRICATION**  
 DRAWING

**SUPPORT BRACKET LAYOUT PLAN VIEW**

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MARK	DATE	REVISION DESCRIPTION	BY

**CS-4 - 809335-10**  
**PETERSBURG PARK - TENNIS COURTS**  
**LOUISVILLE, KY**  
**SITE DESIGNATION: WQU-1**

**CONTECH**  
 ENGINEERED SOLUTIONS LLC  
 A CONTECH COMPANY  
 810 Centre Pointe Dr., Suite 400, West Chester, OH 45380  
 800.338.1122 513.645.7000 513.645.7803 FAX  
**CASCADE separator**  
 FOR PATENT INFORMATION, GO TO www.contech.com/IP

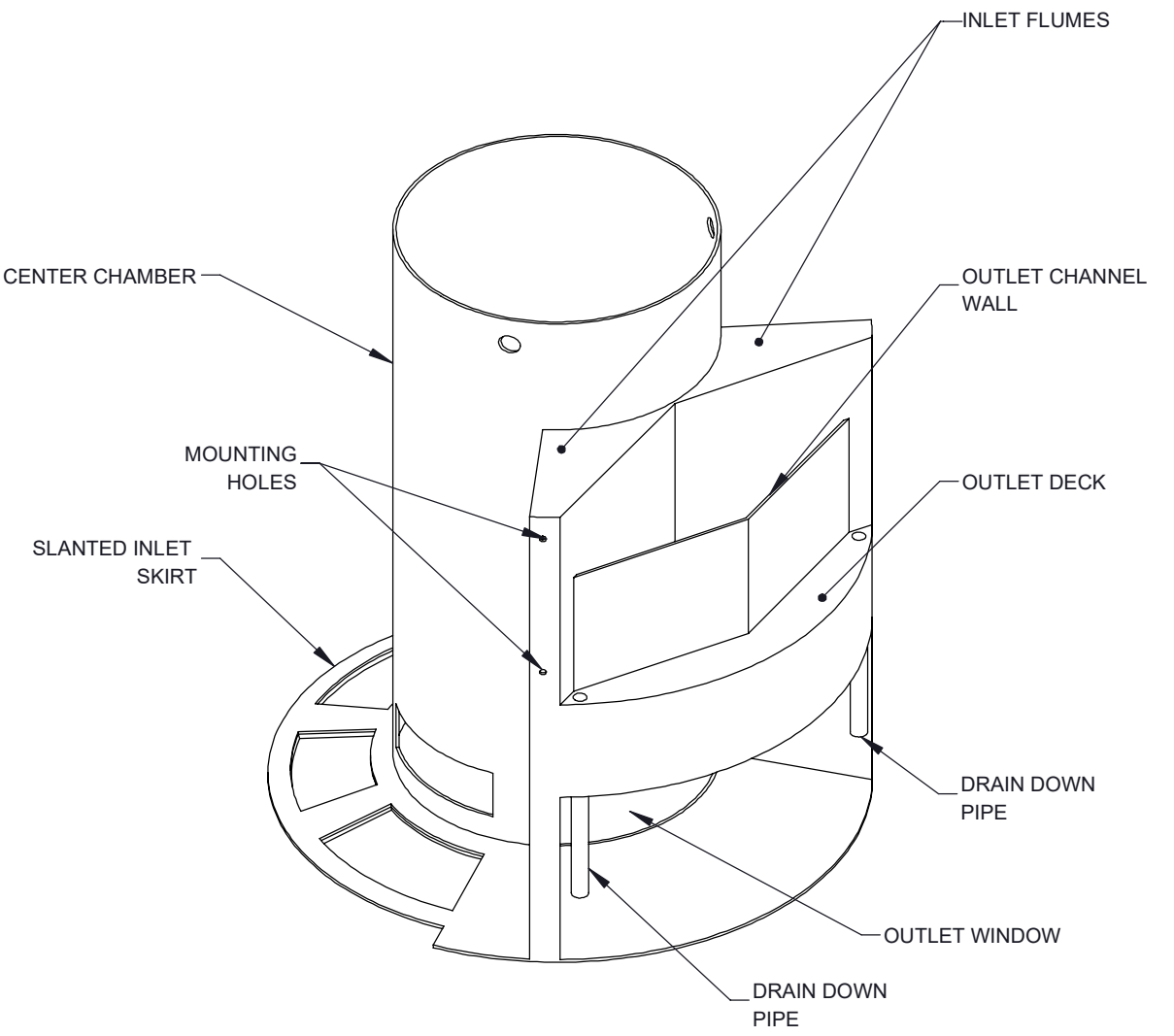
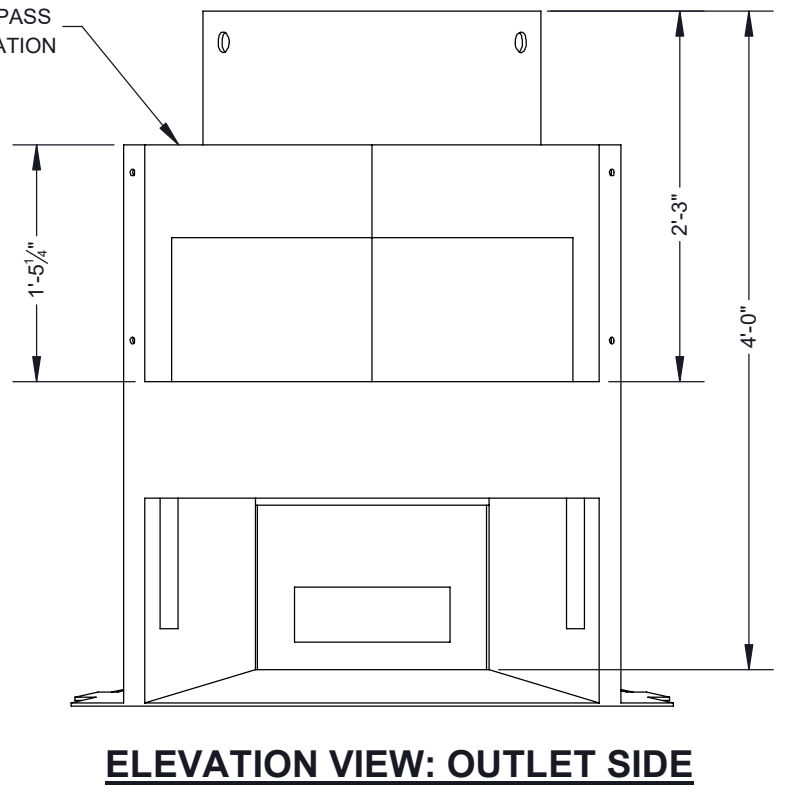
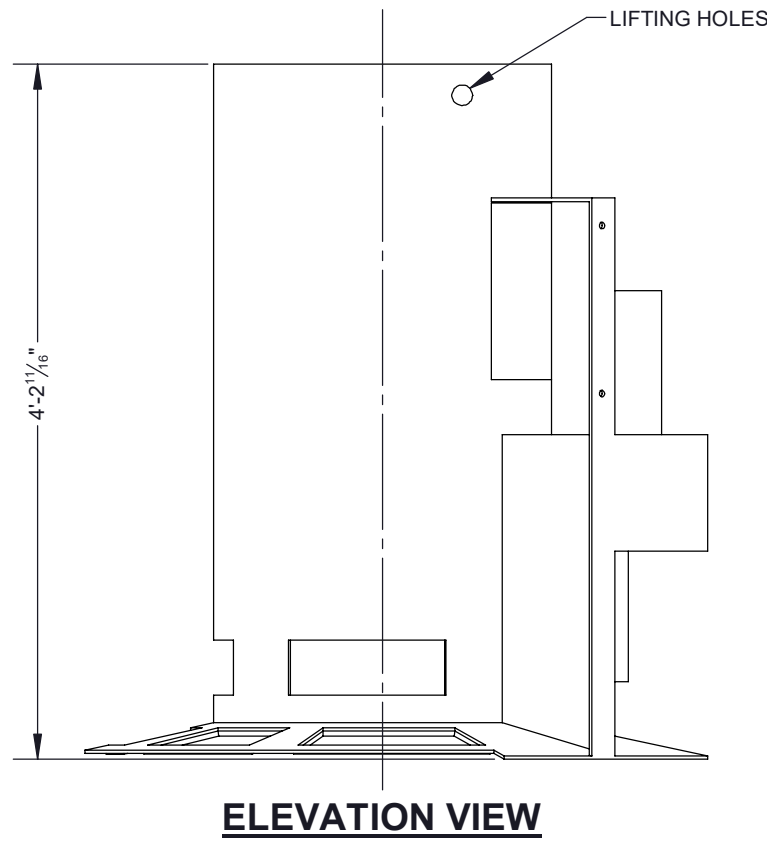
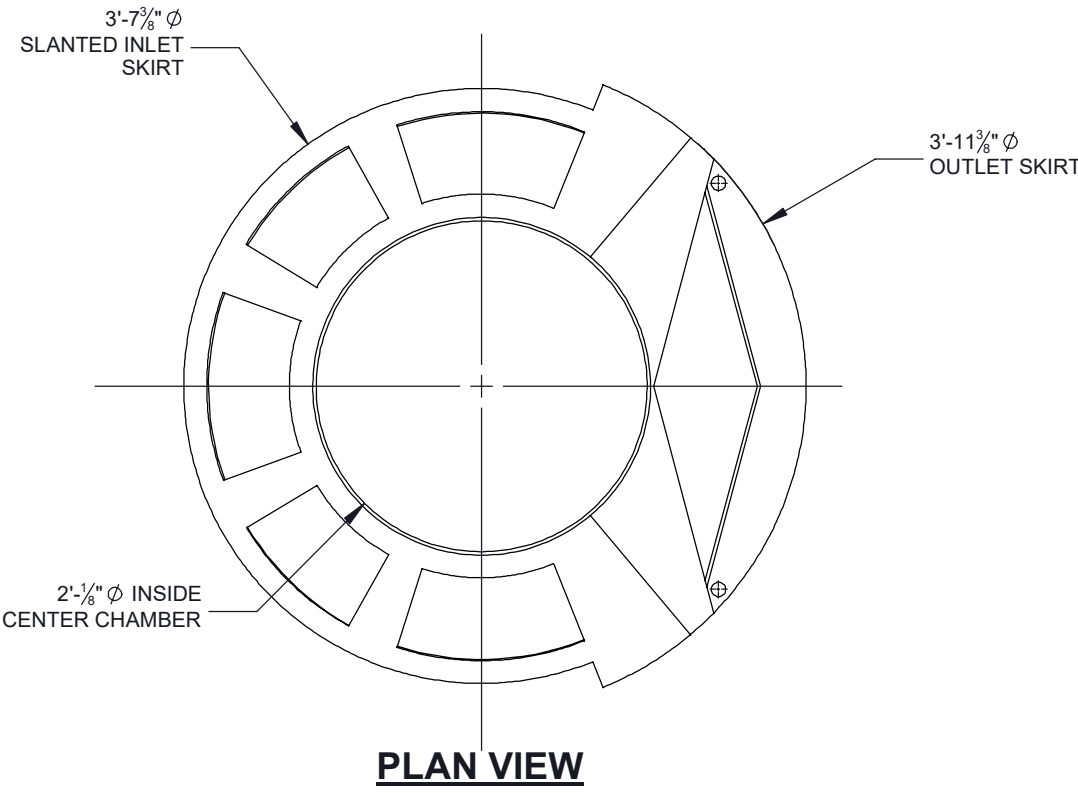
DATE: 9/30/2025

DESIGNED: MDB	DRAWN: MDB
CHECKED: LJK	APPROVED: MDB

PROJECT No.: 809335      SEQUENCE No.: 10

SHEET: 1 OF 1

I:\QUIKRETE\NET\CONTECH\MERLIN\PROJECT\ACTIV\809335\809335-10-CS-4-CONFAB.DWG 9/30/2025 3:30 PM



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

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**CASCADE**  
separator™

**CONTECH**  
ENGINEERED SOLUTIONS LLC

www.ContechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069  
800-338-1122 513-645-7000 513-645-7993 FAX

REFERENCE DETAIL  
INTERNALS CS-4  
CASCADE SEPARATOR

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES:  
FRACTIONAL ± 1/16  
ANGLES ± 1 DEGREE  
TWO PLACE DECIMAL ± 0.06  
THREE PLACE DECIMAL ± 0.030

PART NUMBER: 325-003949		
APPROVED BY: M. BROOKS	DRAWN BY: M. BROOKS	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.14	REV: B
SCALE: N/A	SHEET 1 OF 1	