

Job Name: 25-4256 Knoxville Quarry
 Job Location: Knoxville, TN
 Contractor: RA Alexander

Plant: 100
 12/5/2025 11:27:03 AM

Tech: J.Jorsley - A
 PC: Andy Chambers



Structure ID: 3

P1 BX9696-12W12F-BAVF

BOX BASE 12inW, 12inF, Variable Ht F/n

- P2) 96" x 96" - CB FLAT TOP 12"W SOLID F/F - 12"
- P1) 96" x 96" - BOX BASE 12inW, 12inF, Variable Ht F/n - 88"
- 1) SECONDARY POUR
- 1) 96" x 96" - Conseal CS-102 1.00"
- 2) Hole - 76
- 7) MH Step ML-10-TDS-NCR - 10"

14500 lb
 43644 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 58144 lb

- Structure Notes:**
1. PER ASTM C-913 SPECIFICATIONS
 2. CONCRETE: 4,500 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ATTACHED DESIGN BY MATT CHILDS ENGINEERING, PLLC
 4. NO INVERT CHANNEL
 5. NO CASTING
 6. NOTE: #6 U-BAR "6H" PER DESIGN BY MATT CHILDS ENGINEERING, PLLC WILL BE USED FOR WALL POUR TIE-IN

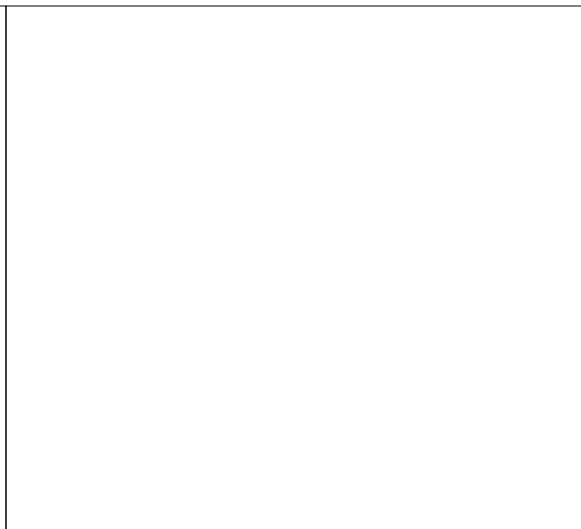
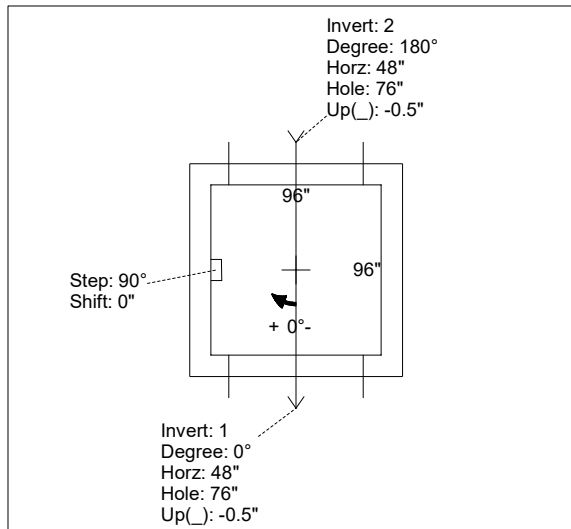
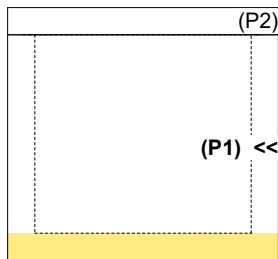
FIRST POUR (FLOOR): 14,500 LBS
SECOND POUR (WALLS): 29,144 LBS

Rim: 8.33' Rim to Invert: 8.33' Slack: -0.04" Sump: 0" Step Position: 90°

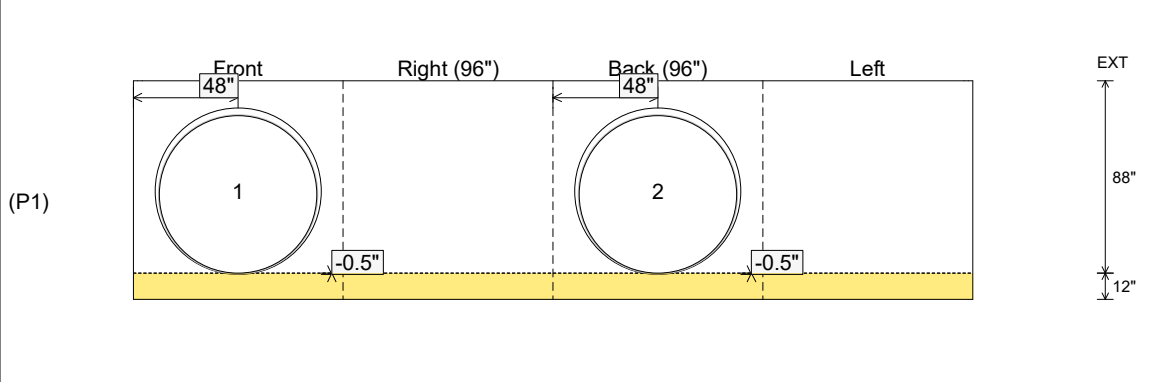
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	0'	0°	60"	72" CMP	73"	Hole 76	76"	76"	-0.5"	0"
Invert 2	0'	180°	60"	72" CMP	73"	Hole 76	76"	76"	-0.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

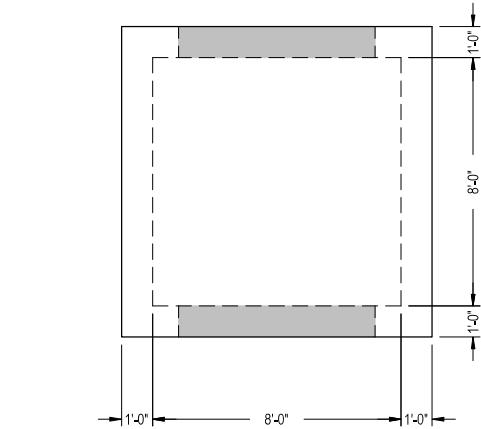


Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 12" Floor Height: 12"	Height (Int): 88" Height (Ext): 100"	Weight (Net): 43644 lb Volume (Net): 11.15cu.yd
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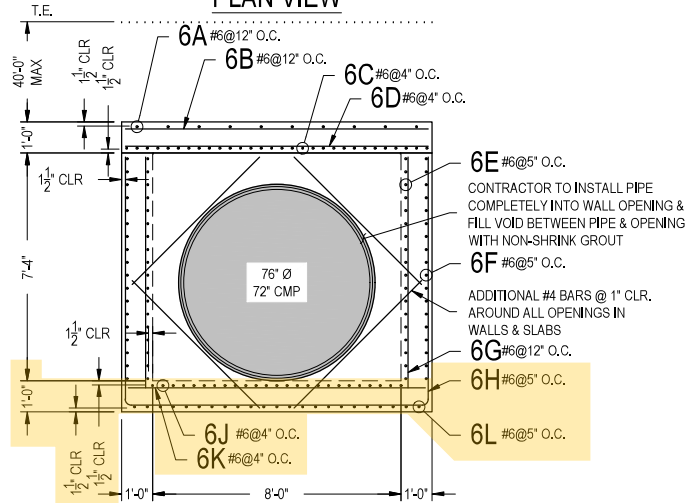
DESIGN NOTE:

HL93 LOADING
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 5000 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN SPLICE LENGTHS: #4-22" #5-28" #6-33"
 PLACE 4-#4 BAR DIAGONAL AROUND OPENING(S)

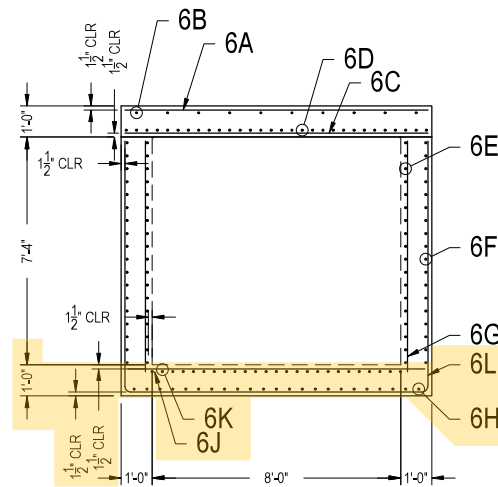
STEEL REINFORCEMENT SHOWN BELOW SHALL BE CUT AS REQUIRED FOR WALL PENETRATIONS AND PRECAST JOINT LOCATIONS.
 PLEASE NOTE: DUE TO PRECAST PRODUCTION CONSTRAINTS, NO REINFORCING WILL BE CONTINUOUS ACROSS PRECAST JOINTS.



PLAN VIEW



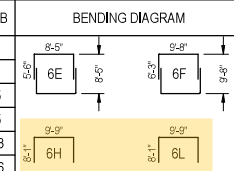
FRONT VIEW



RIGHT VIEW

REINFORCING STEEL SCHEDULE

MARK	NO.	LENGTH	TYPE	lb/EA.	TOTAL LB
6A	10	9'-9"	STR.	14,6445	146,445
6B	10	9'-9"	STR.	14,6445	146,445
6C	30	9'-9"	STR.	14,6445	439,335
6D	30	9'-9"	STR.	14,6445	439,335
6E	18	19'-5" (2)	BENT	29,1638	1049,898
6F	18	22'-2" (2)	BENT	33,2943	1198,596
6G	32	7'-4"	STR.	11,0147	352,4693
6H	23	25'-11"	BENT	38,9268	895,3172
6J	25	9'-9"	STR.	14,6445	366,1125
6K	25	9'-9"	STR.	14,6445	366,1125
6L	23	25'-11"	BENT	38,9268	895,3172



STORM JUNCTION BOX
 8'-0" x 8'-0"
 RA ALEXANDER
 25-4256 KNOXVILLE QUARRY
 DATE: 1/24/2025
 PAGE: 1 OF 1

DRAWN BY: MBJ
 SCALE: 1/4" = 1'

NO.	REVISIONS
1	
2	
3	
4	

MATT CHILDS ENGINEERING, P.C.
 516 E. INTERSTATE 30, #1017
 ROCKWALL, TX 75087

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 3. REINFORCEMENT: PER ATTACHED DESIGN BY MATT CHILDS ENGINEERING, PLLC
 4. NO INVERT CHANNEL
 5. NO CASTING
 6. LIFTERS: 4 EA. 8CA18 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 90° & 270° WALLS, MIN. 16" FROM TOP OF WALLS

FIRST POUR (FLOOR): 14,500 LBS

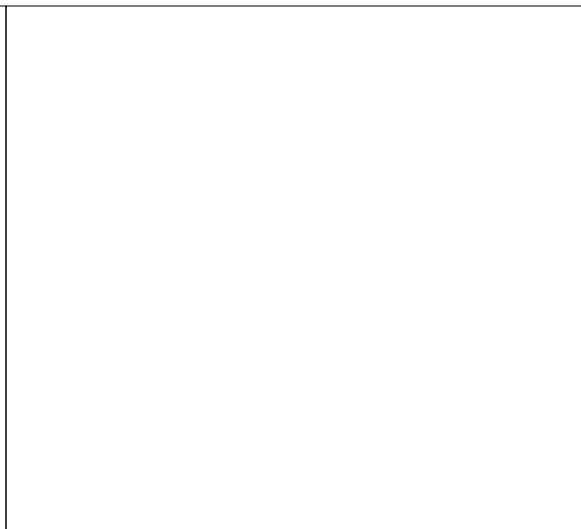
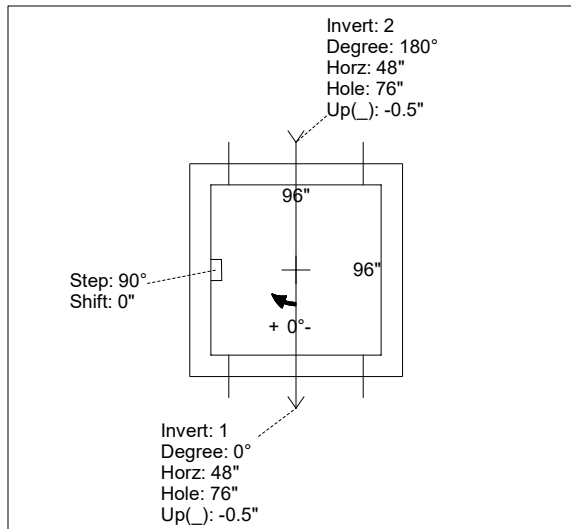
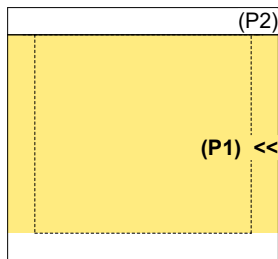
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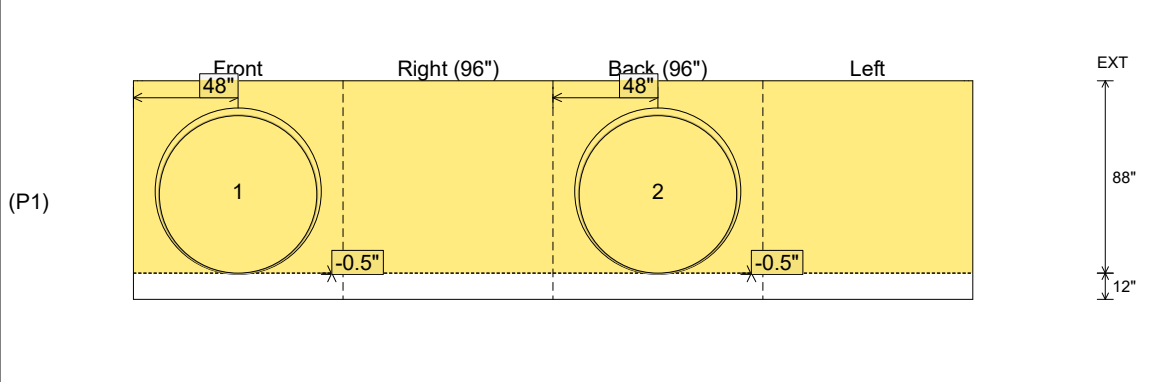
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UPSIDE-DOWN VIEW (int. dimensions)



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 Coating (Ext):

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 Seam Dn: n/a

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 Floor Height: 12"

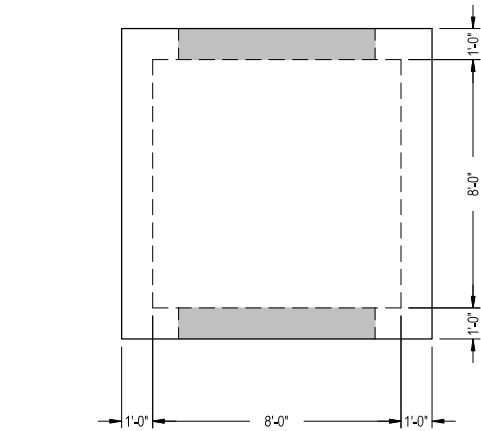
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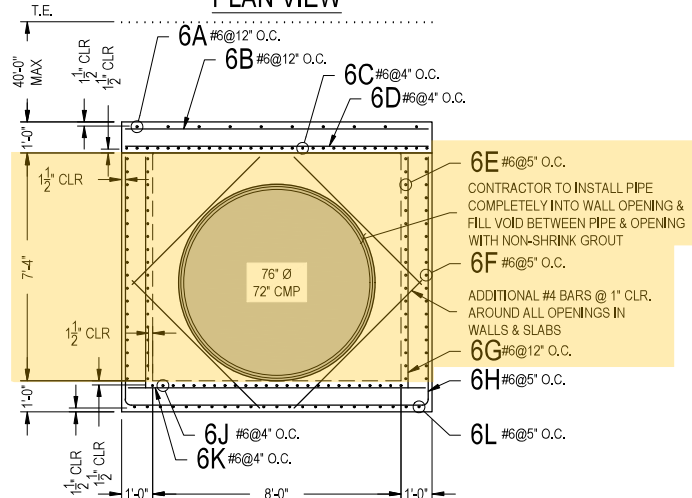
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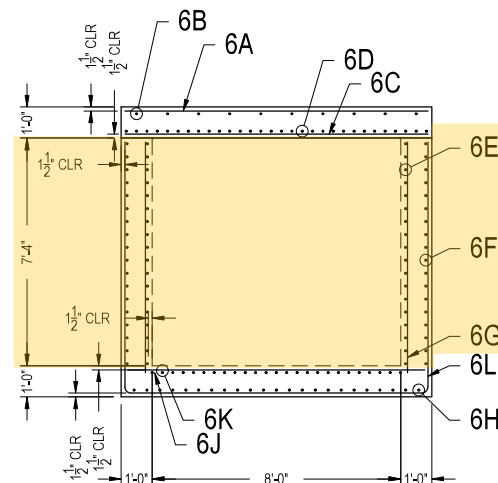
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