

**Job Name: 25-1549 Stone River WTP Isolation Valve Replacement**  
**Job Location: Murfreesboro, TN**  
**Contractor: Cumberland Valley Constructors, Inc.**

PC: J. Jarvis  
 TECH: J. Coppage  
 Plant: Beaver Dam



Structure ID: **96IN X 96IN VAULT**  
 Spec: Storm-Pipe Centered Xypex  
 Type: BX 8inW, 8inF  
 Size: 96" x 96"

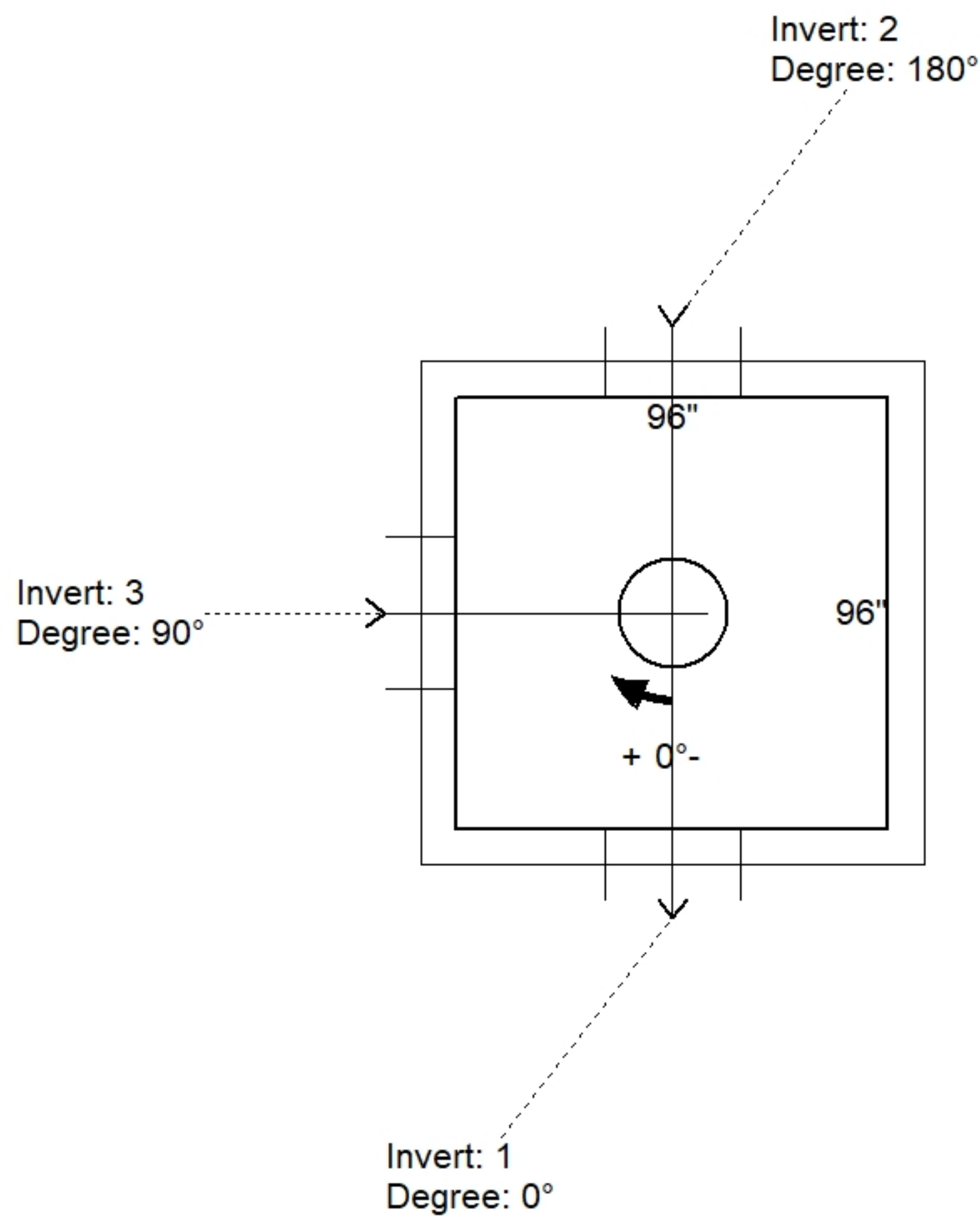
Rim: 549.16'      Sump: 0"  
 Invert: 539.5'      Floor (Top): 539.5'  
 Rim to Invert: 9.66'      Floor Height: 8"  
 Floor (Bot): 538.833'  
 Overall Height: 10.333'  
 Slack: -0.08"

**Structure Notes:**

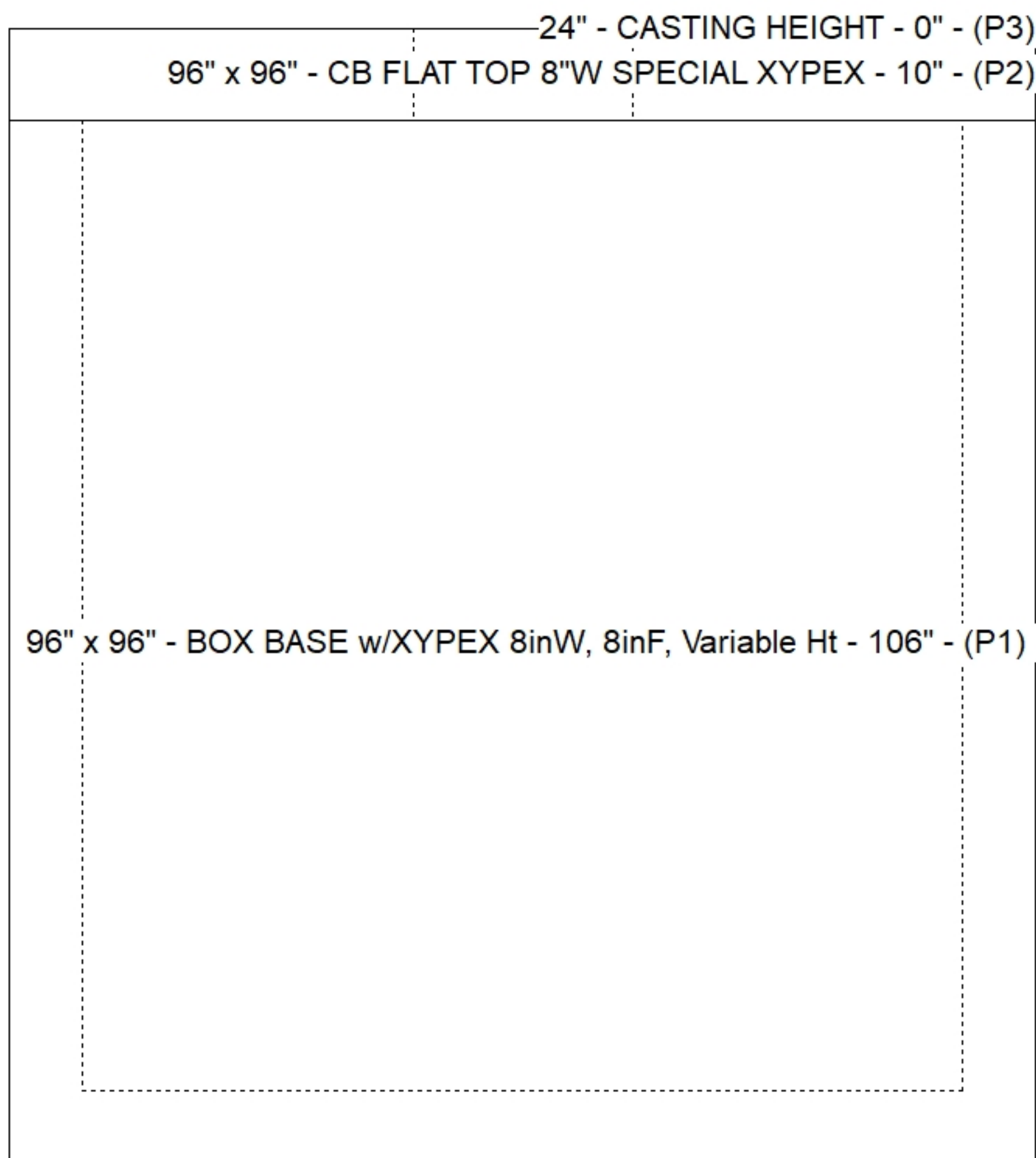
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

**STRUCTURE SUMMARY:**

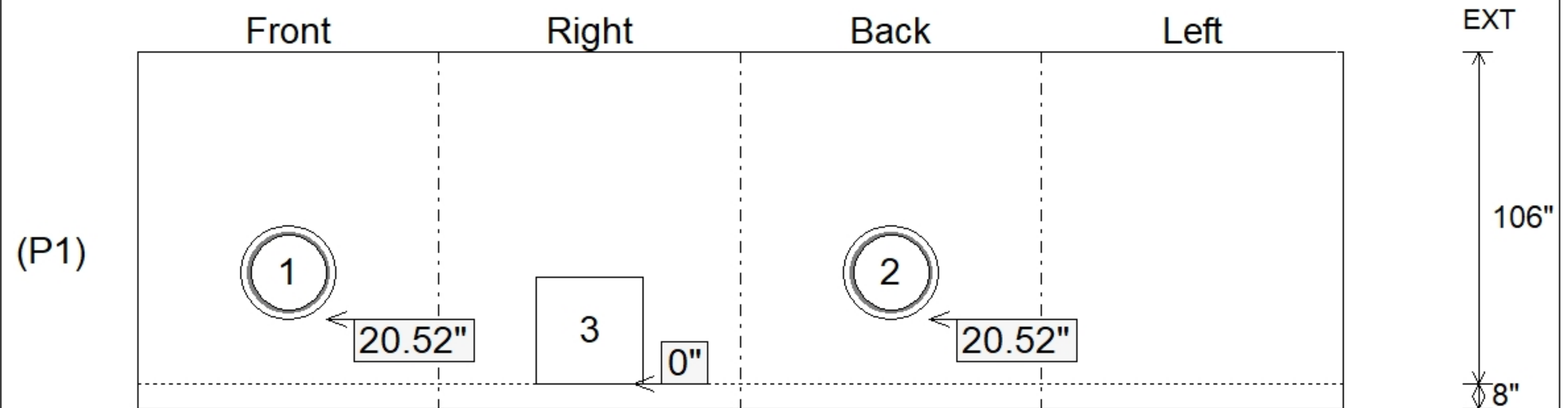
P3) 24" - CASTING HEIGHT - 0"	0 lb
P2) 96" x 96" - CB FLAT TOP 8"W SPECIAL XYPEX - 10"	10146 lb
P1) 96" x 96" - BOX BASE w/XYPEX 8inW, 8inF, Variable Ht - 106"	36297 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) HATCH (Alum.) - HALLIDAY H1W 30"x30"	235 lb
1) HATCH (Alum.) - HALLIDAY H1W 36"x36"	235 lb
1) 96" x 96" - Con Seal CS-102 1.00" (Double)	0 lb
2) Hole - 30	0 lb
1) SQ. Hole - 34"x34"	0 lb
<b>Structure Total:</b>	<b>46913 lb</b>



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up (")	Ref
Rim	549.16'							
Reducer								
Invert 1	541.46'	0°	24" DI	25.75"	30"	Hole 30	20.52"	P1
Invert 2	541.46'	180°	24" DI	25.75"	30"	Hole 30	20.52"	P1
Invert 3	539.5'	90°	34" x 34" SQ. Hole	34" x 34"	34" x 34"	SQ. Hole 34"x34"	0"	P1
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								



**Default - Interior Dimensions**



Submittal Drawing  
 10/29/2025 9:32:17 AM

SUBMITTAL  
 APPROVED BY: