

**Job Name: 25-3531 - Crescent Hill Filtration Plant Carbon Storage**  
**Job Location: Louisville, KY**  
**Contractor: Dugan & Meyers, LLC**

PC: J. Jarvis  
 TECH: K. Cardwell  
 Plant: Beaver Dam, KY



**Structure ID: 4" WATER VAULT**

Spec: Vaults  
 Type: Vault 8inW, 8inF  
 Size: 48" x 128"

Rim: 560'  
 Invert: 556'  
 Rim to Invert: 4'

Sump: 12"  
 Floor (Top): 555'  
 Floor Height: 8"

Floor (Bot): 554.333'  
 Overall Height: 5.667'  
 Slack: 0"

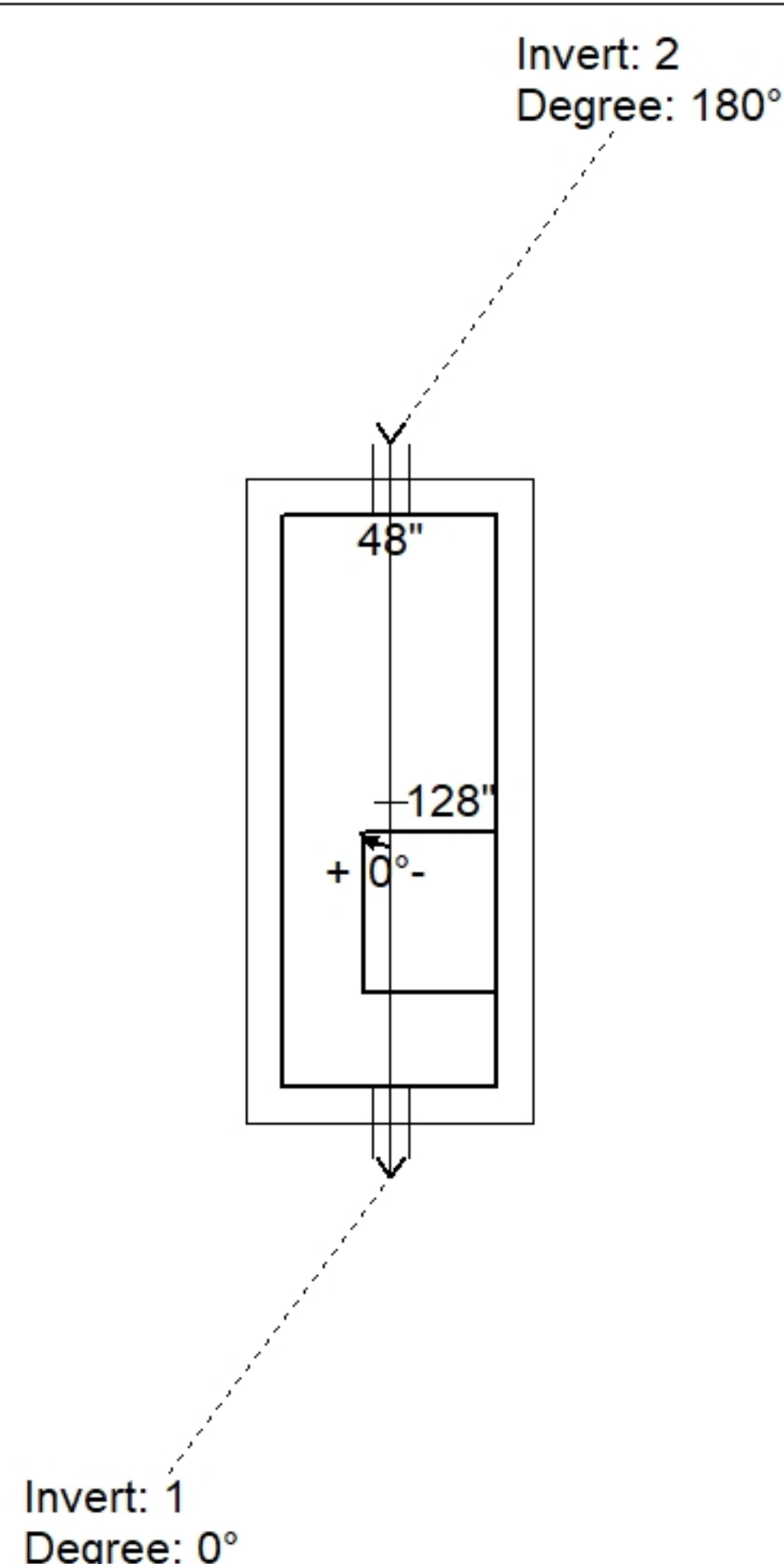
Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.

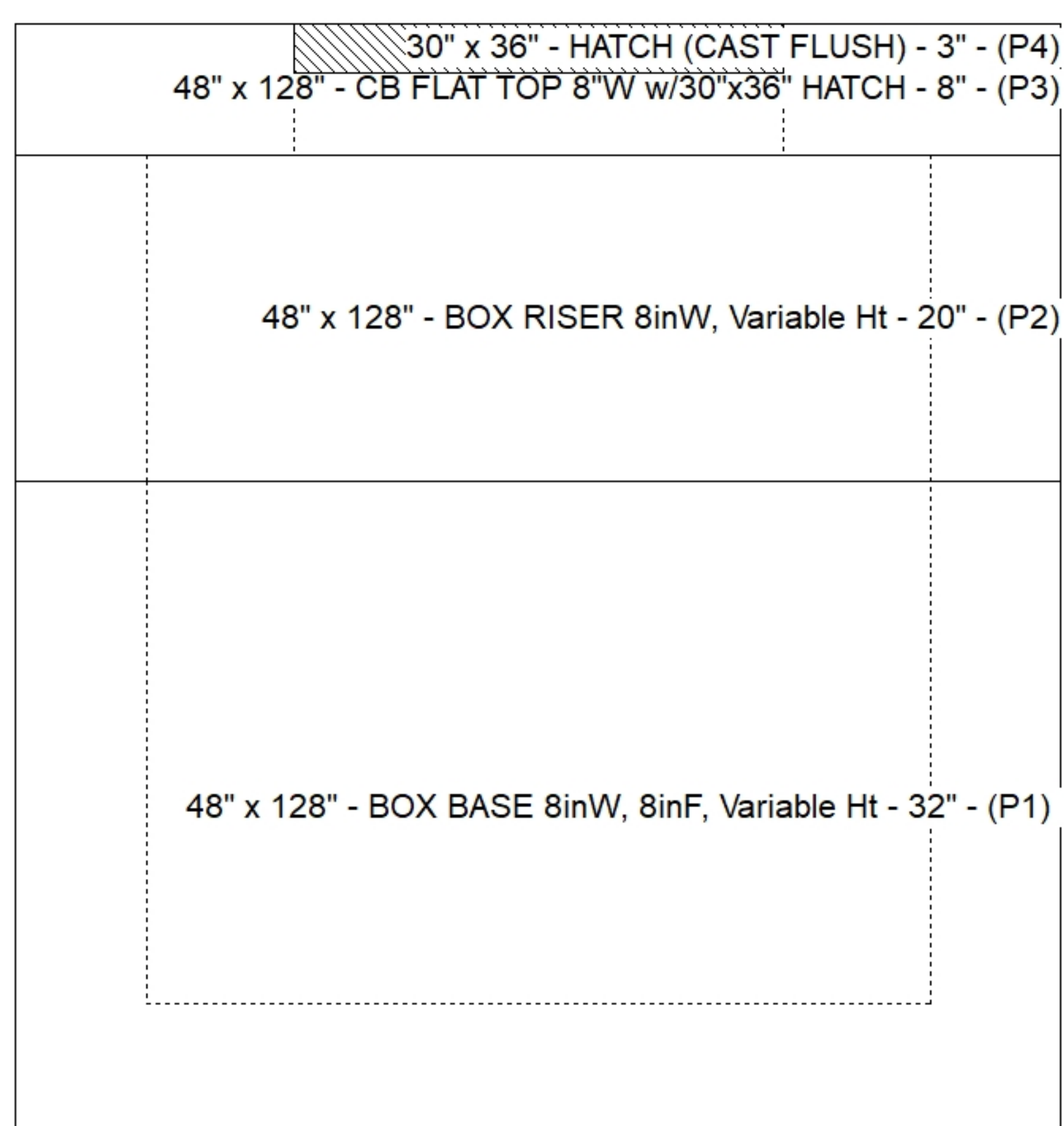
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

STRUCTURE SUMMARY:

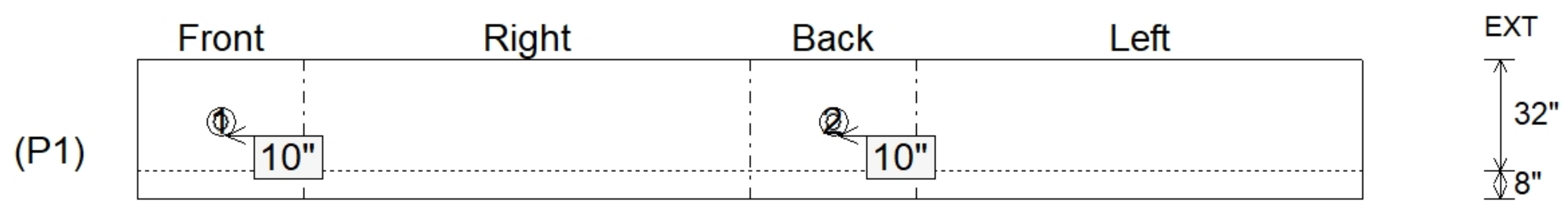
P4) 30" x 36" - HATCH (CAST FLUSH) - 3"	100 lb
P3) 48" x 128" - CB FLAT TOP 8"W w/30"x36" HATCH - 8"	5462 lb
P2) 48" x 128" - BOX RISER 8inW, Variable Ht - 20"	5156 lb
P1) 48" x 128" - BOX BASE 8inW, 8inF, Variable Ht - 32"	14368 lb
1) HATCH (Alum.) - HALLIDAY H2R 48"x48"	235 lb
1) This Structure Includes a Cast-In Item (Hatch)	0 lb
1) SECONDARY POUR - WALLS	0 lb
2) Hole - 8	0 lb
<b>Structure Total:</b>	<b>25320 lb</b>



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up ( )	Ref
Rim	560'							
Reducer								
Invert 1	556'	0°	4" DI	4.75"	8"	Hole 8	10"	P1
Invert 2	556'	180°	4" DI	4.75"	8"	Hole 8	10"	P1
Invert 3								
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								



**Default - Interior Dimensions**



Submittal Drawing  
 4/3/2026 8:27:55 AM

SUBMITTAL  
 APPROVED BY: