

Job Name: 25-1401 Irwin Landing Ph. 1

Job Location: Murfreesboro, TN

Contractor: Bear Construction LLC

Plant: Beaver Dam

6/9/2026 10:36:56 AM

Tech: S. Felletter

PC: Erica Bradley



Structure ID: R7

P1 BX28280606VH

BOX BASE 6inW, 6inF, Variable Ht F/n

P2) 28" x 28" - CASTING HEIGHT - 5"

P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht F/n - 45"

1) 28" x 28" - STORM INVERT CHANNEL (FLAT) - 4" THK

1) CASTING - JBS 3104-V SINGLE SET

1) 28" x 28" - Conseal CS-102 1.00"

1) Hole - 26

0 lb

3619 lb

450 lb

250 lb

0 lb

0 lb

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Structure Total: 4319 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. CASTING BY ICAST (JBS-3104 SINGLE SET).

REINFORCING PER ASTM A615 (GRADE 60).

- WALLS (As .31) #5 BARS AT 12" C.C.E.W.

- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 570.15'

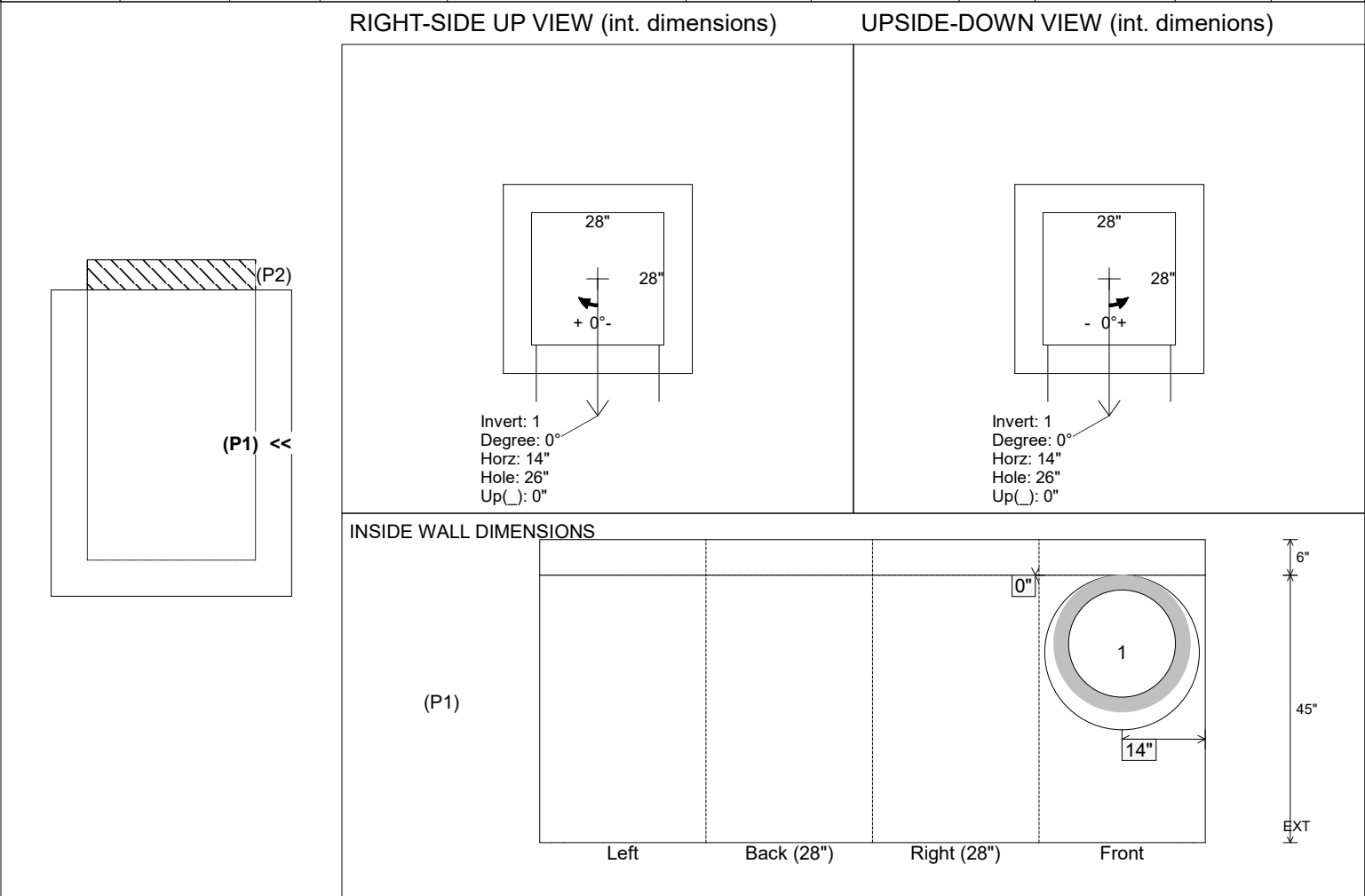
Rim to Invert: 4.01'

Slack: 0.62"

Sump: 2.5"

Step Position:

| Position | Elev    | Angle | Ext. (cw) | Pipe           | Pipe OD | Connector | Hole | Horz Size | Up ( _ ) | Offset |
|----------|---------|-------|-----------|----------------|---------|-----------|------|-----------|----------|--------|
| Invert 1 | 566.14' | 0°    | 20"       | 18" RCP B WALL | 23"     | Hole 26   | 26"  | 26"       | 0"       | 0"     |
| Invert 2 |         |       |           |                |         |           |      |           |          |        |
| Invert 3 |         |       |           |                |         |           |      |           |          |        |
| Invert 4 |         |       |           |                |         |           |      |           |          |        |
| Invert 5 |         |       |           |                |         |           |      |           |          |        |
| Invert 6 |         |       |           |                |         |           |      |           |          |        |
| Invert 7 |         |       |           |                |         |           |      |           |          |        |
| Invert 8 |         |       |           |                |         |           |      |           |          |        |



|                                  |                               |                                        |                                        |                                                  |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Flat<br>Seam Dn: n/a | Wall Thickness: 6"<br>Floor Height: 6" | Height (Int): 45"<br>Height (Ext): 51" | Weight (Net): 3619 lb<br>Volume (Net): 0.92cu.yd |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

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- WALLS (As .31) #5 BARS AT 12" C.C.E.W.

- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Invert channel drawing

4" Thick flat storm invert

Rim: 570.15'

Rim to Invert: 4.01'

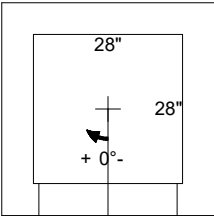
Slack: 0.62"

Sump: 2.5"

Step Position:

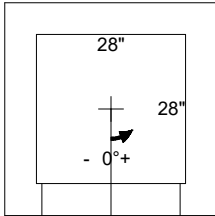
| Position | Elev    | Angle | Ext. (cw) | Pipe           | Pipe OD | Connector | Hole | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|----------------|---------|-----------|------|-----------|--------|--------|
| Invert 1 | 566.14' | 0°    | 20"       | 18" RCP B WALL | 23"     | Hole 26   | 26"  | 26"       | 0"     | 0"     |
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| Invert 3 |         |       |           |                |         |           |      |           |        |        |
| Invert 4 |         |       |           |                |         |           |      |           |        |        |
| Invert 5 |         |       |           |                |         |           |      |           |        |        |
| Invert 6 |         |       |           |                |         |           |      |           |        |        |
| Invert 7 |         |       |           |                |         |           |      |           |        |        |
| Invert 8 |         |       |           |                |         |           |      |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 1  
Degree: 0°  
Horz: 14"  
Hole: 26"  
Up( ): 0"

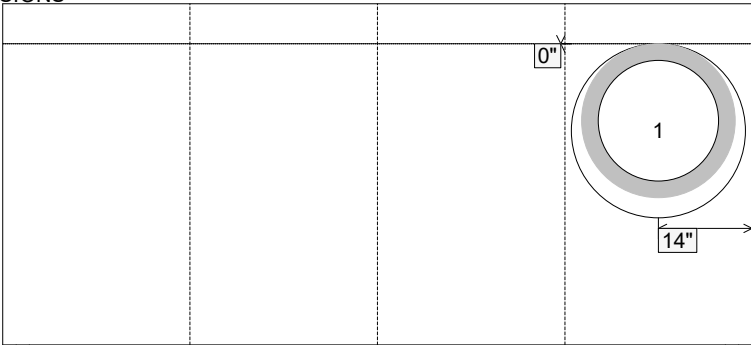
UPSIDE-DOWN VIEW (int. dimensions)



Invert: 1  
Degree: 0°  
Horz: 14"  
Hole: 26"  
Up( ): 0"

INSIDE WALL DIMENSIONS

(P1)



6"  
45"  
14"

Left

Back (28")

Right (28")

Front

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 6"

Height (Int): 45"

Height (Ext): 51"

Weight (Net): 3619 lb

Volume (Net): 0.92cu.yd