

Job Name: 25-1401 Irwin Landing Ph. 1
Job Location: Murfreesboro, TN
Contractor: Bear Construction LLC

PC: Erica Bradley
TECH: S. Felletter
Plant: Beaver Dam



Structure ID: R51
Spec: TDOT
Type: CB TYPE 10RA
Size: 48"

Rim: 568.01'
Invert: 561.05'
Rim to Invert: 6.96'

Sump: 2.5"
Floor (Top): 560.842'
Floor Height: 6"

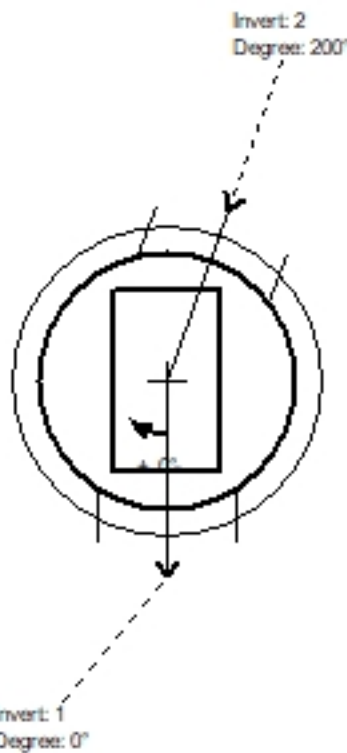
Floor (Bot): 560.342'
Overall Height: 7.667'
Slack: 0.02"

Structure Notes:

1. PER TDOT D-CB-10RA / ASTM C478 SPEC'S.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS-3123 MOD SET).
- REINFORCING PER ASTM A615 (GRADE 60).
** PER TDOT STD DRAWING D-CB-10RA **
- TOP SLAB - DBL MAT #5 BARS.
- RISER (As .24)
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

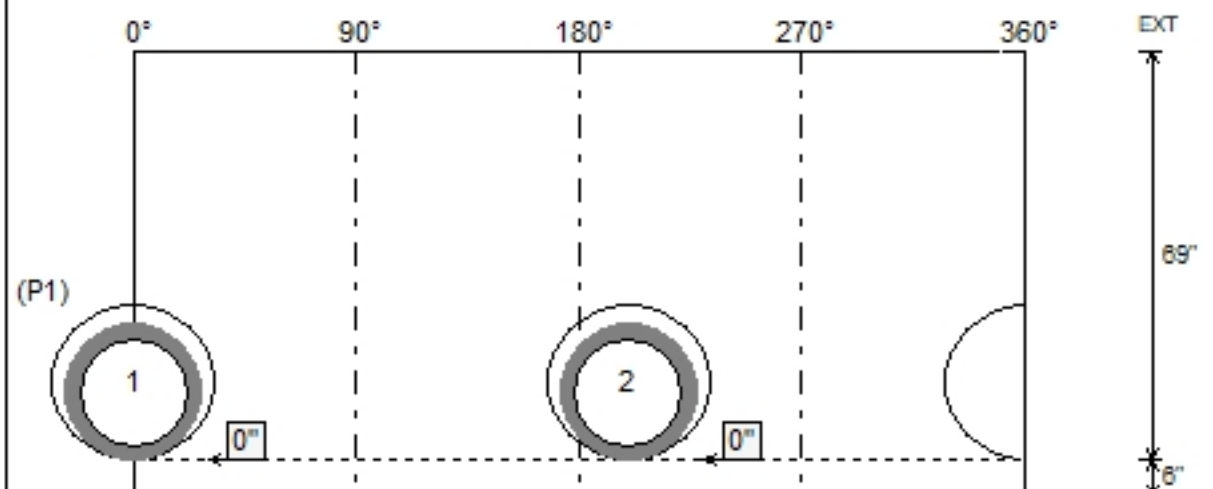
STRUCTURE SUMMARY:

P3) 20" x 34" - CASTING HEIGHT - 7"	0 lb
P2) 48" - MH FLAT TOP - TDOT NO 10 (20"x34" Hole) F/F - 10"	1646 lb
P1) 48" - MH BASE Custom Ht F/n - 69"	5684 lb
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT	1075 lb
1) CASTING - JBS 3123 MODIFIED SET	250 lb
1) 48" - SGL 1"x14.5" Butyl (2x)	0 lb
2) Hole - 26	0 lb
Structure Total:	8655 lb



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up ()	Ref
Rim	568.01'							
Reducer								
Invert 1	561.05'	0°	18" RCP B WALL	23"	26"	Hole 26	0"	P1
Invert 2	561.05'	200°	18" RCP B WALL	23"	26"	Hole 26	0"	P1
Invert 3								
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								

Default - Interior Dimensions



Submittal Drawing
6/10/2026 3:15:38 PM

SUBMITTAL
APPROVED BY: