

Job Name: 25-1137B - East Bank Regional Pump Station
 Job Location: Nashville, TN
 Contractor: Garney Companies, Inc.

Plant: Beaver Dam

Tech: J. Coppage

5/12/2026 10:28:00 AM

PC: J. Jarvis



Structure ID: Flow Meter Vault

P3 CTS-X

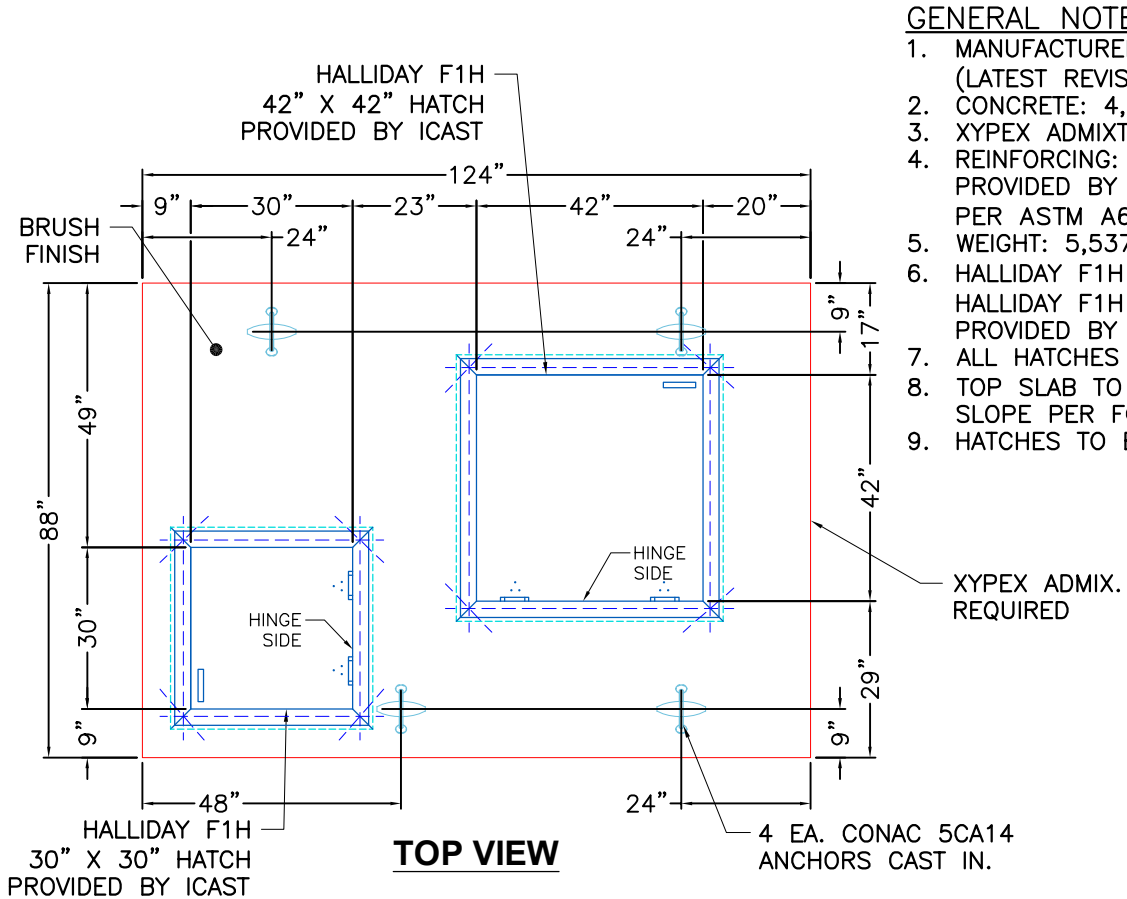
BX FLAT LID 8inW w/ XYPEX AND 2 HATCHES

- P4) 42" x 42" - HATCH (CAST FLUSH) - 3"
- P3) 72" x 108" - BX FLAT LID 8inW w/ XYPEX AND 2 HATCHES - 8"
- P2) 72" x 108" - BOX RISER 8inW, Variable Ht w/Xypex FTB - 97"
- P1) 72" x 108" - P.I.P. BY OTHERS - BTM SLAB - 0"
- 2) DOGHOUSE - 26"x26"

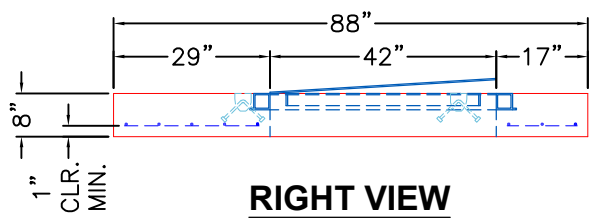
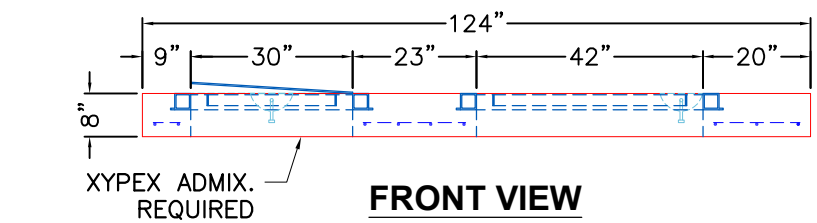
100 lb
 5536 lb
 24359 lb
 0 lb
 0 lb

 Structure Total: 29995 lb

- Structure Notes:**
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
 2. CONCRETE: 4,500 PSI AT 28 DAYS.
 3. XYPEX ADMIXTURE REQUIRED.
 4. REINFORCING: PER ASTM A615 (GRADE 60).
 5. HALLIDAY F1H 42" X 42" HATCH AND HALLIDAY F1H 30" X 30" HATCH PROVIDED BY ICAST.
 6. ALL HATCHES TO HAVE FALL PROTECTION.
 7. TOP SLAB TO HAVE MINIMUM 1/4" CROWNED SLOPE PER FOOT AND A BRUSH FINISH.
 8. HATCHES TO BE CAST IN TOP SLAB.



- GENERAL NOTES:**
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
 2. CONCRETE: 4,500 PSI AT 28 DAYS.
 3. XYPEX ADMIXTURE REQUIRED.
 4. REINFORCING: USE REINFORCEMENT DESIGN PROVIDED BY MATT CHILDS ENGINEERING. PER ASTM A615 (GRADE 60).
 5. WEIGHT: 5,537 LBS.
 6. HALLIDAY F1H 30" X 30" HATCH AND HALLIDAY F1H 42" X 42" HATCH PROVIDED BY ICAST.
 7. ALL HATCHES TO HAVE FALL PROTECTION.
 8. TOP SLAB TO HAVE MINIMUM 1/4" CROWNED SLOPE PER FOOT AND A BRUSH FINISH.
 9. HATCHES TO BE CAST IN TOP SLAB.



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 8"	Height (Ext): 8"	Weight (Net): 5536 lb Volume (Net): 1.41cu.yd
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BX FLAT LID 8inW w/ XYPEX AND 2 HATCHES

DRAWN BY: MBL
SCALE: 3/8" = 1'

REVISIONS

NO.	DESCRIPTION
1	
2	
3	
4	

DATE: 10/10/2026
PAGE: 1 OF 1

PROJECT: EAST REGIONAL BANK PUMP STATION
 CLIENT: GARNEY COMPANIES INC
 DRAWING NO: 25-1137B-010
 SHEET: FLOW METER VAULT

FMV

REINFORCING STEEL SCHEDULE

MARK	NO.	LENGTH	TYPE	AREA	TOTAL LB	BENDING DIAGRAM
5A	15	7'-4"	STR.	7,3879	110,8185	
5B	9	10'-1"	STR.	10,5189	94,6221	
5C	16	19'-4" (2)	BENT	19,817	834,144	
5D	34	7'-10"	STR.	8,1702	277,7857	

DESIGN NOTE:
 HS20 LOADING - ASTM C857
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 4500 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN SPLICE LENGTHS: #4-22' #5-28' #6-33'
 PLACE #4# BAR DIAGONAL AROUND OPENINGS
 STEEL REINFORCEMENT SHOWN BELOW SHALL BE CUT AS REQUIRED FOR WALL PENETRATIONS AND PRECAST JOINT LOCATIONS.
 REFER TO PRECAST PRODUCTION CONSTRUCTION DETAILS. NO REINFORCING WILL BE CONTINUOUS ACROSS PRECAST JOINTS.

PLAN VIEW

FRONT VIEW

RIGHT VIEW

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MATT CHILDS ENGINEERING PLLC
 919 E. WENTWORTH AVENUE
 NASHVILLE, TN 37203

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Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 8"	Height (Ext): 8"	Weight (Net): 5536 lb Volume (Net): 1.41cu.yd
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