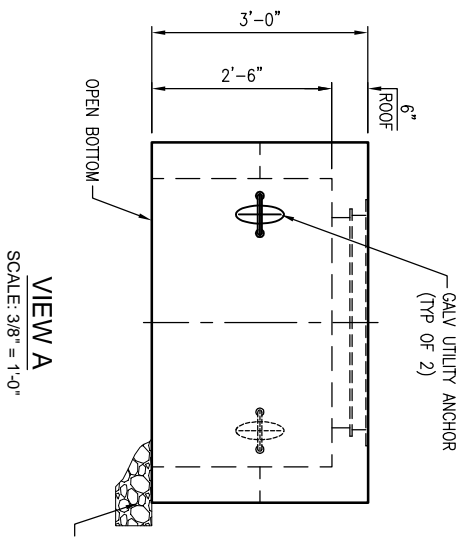
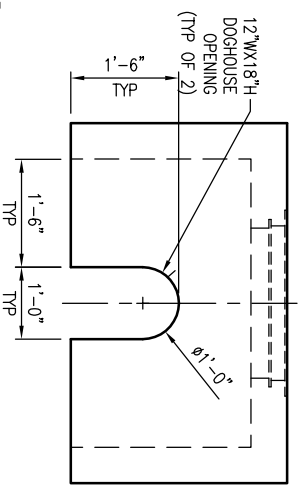


**PLAN VIEW**  
SCALE: 3/8" = 1'-0"



**VIEW A**  
SCALE: 3/8" = 1'-0"



**VIEW B**  
SCALE: 3/8" = 1'-0"

**GENERAL DESIGN NOTES:**

1. STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.), ACI 318.
2. APPLICABLE DESIGN DOCUMENTS (CURRENT EDITIONS):
  - ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (MAIN DESIGN SPECIFICATION).
  - ASTM C890 STANDARD PRACTICE FOR MINIMUM STRUCTURAL LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES (LOADING SPECIFICATION).
  - ASTM C913 STANDARD SPECIFICATION FOR PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES (PRODUCT SPECIFICATION).
3. PRECAST RATED FOR HS20-44 TRUCK LIVE LOAD W/ IMPACT I.A.W. ASTM C890.
4. DESIGN FILL AT GRADE.
5. GROUND WATER TABLE ASSUMED BELOW INVERT OF BOX. IF DESIGN (OR ACTUAL) WATER TABLE IS LESS THAN ASSUMED, REVIEWING ENGINEER TO NOTIFY OLDCASTLE PRECAST UPON REVIEW OF THIS SUBMITTAL.
6. LATERAL DESIGN PRESSURES (AS APPLICABLE TO DESIGN, SEE CALCULATIONS):
  - EQUI DRY SOIL FLUID PRESSURE = 47 PCF.
  - EQUI SATURATED SOIL FLUID PRESSURE = 65 PCF.
  - LIVE LOAD SURCHARGE PRESSURE = 80 PSF.
  - HYDROSTATIC WATER PRESSURE = 62.4 PCF.
7. DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 4,000 PSI (MIN).
8. REINFORCEMENT: OLDCASTLE PE (DESIGN ENGINEER) MAY SUBSTITUTE THE REINFORCEMENT SHOWN HEREIN TO AN EQUIVALENT REINFORCEMENT ALTERNATIVE NOTED BELOW.
  - CARBON STEEL DEFORMED BARS: ASTM A615,  $f_y = 60$  KSI (MIN).
  - WELDED WIRE REINFORCEMENT - DEFORMED: ASTM A1064,  $f_y = 70$  KSI (MIN).
  - WELDED WIRE REINFORCEMENT - FLAIN: ASTM A1064,  $f_y = 65$  KSI (MIN).
9. PRECAST DESIGN DOES NOT INCLUDE ANY LATERAL OR SURCHARGE LOADS FROM OTHER BUILDINGS OR FOUNDATIONS ADJACENT TO THIS STRUCTURE. THIS STRUCTURE SHALL BE KEPT A MINIMUM OF 1:1 RATIO AWAY FROM OTHER FOOTINGS OR FOUNDATIONS.

**NOTES TO CONTRACTOR:**

1. PLEASE VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS OF OPENINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER COORDINATION TO ENSURE THAT AN ADEQUATE BEARING SURFACE IS PROVIDED (I.E. LEVEL AND COMPACTED) PER PROJECT SPECIFICATIONS AND DRAWINGS.
3. AFTER PIPES ARE INSTALLED IN BLOCKOUTS, ALL ANNULAR SPACES SHALL BE FILLED WITH A MIN. OF 3,000 PSI CONCRETE, TIGHT TO THE UNDERSIDE OF UPPER SECTION FOR FULL THICKNESS OF VAULT WALL.

SECTION	WEIGHT (lbs)	CONCRETE(CY)
<b>TOTAL</b>	<b>4,900</b>	

4065 STOUGH RD, CONCORD, NC  
OFFICE: 704-786-4801 FAX: 704-786-4900  
NC ENGINEERING LICENSE #F-1092

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**4'X4' ID METER VAULT**  
SUBMITTAL LAYOUT  
2" WATER METER VAULT  
CITY OF RALEIGH

DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
3/24/17	LD	EMT			
	DRAWING NUMBER	REVISION	SHEET	REV DATE	
	44M/Raleigh		1 OF 1		

\*\*THIS MUST BE FILLED OUT BEFORE MANUFACTURING BEGINS.\*\*

APPROVED W/ NO EXCEPTIONS TAKEN:

APPROVED AS NOTED:

REVISED AND RESUBMIT:

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**REVISIONS**

REV	DATE	BY	SHEET	DESCRIPTION OF REVISION	REQUESTED BY
A					
B					
C					
D					