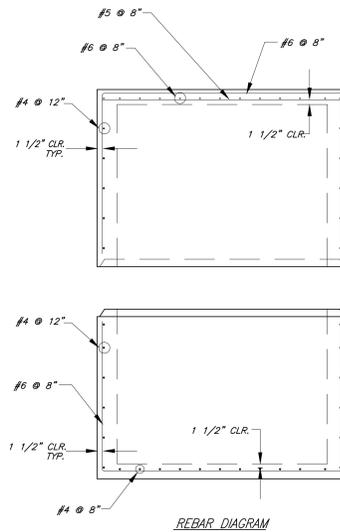
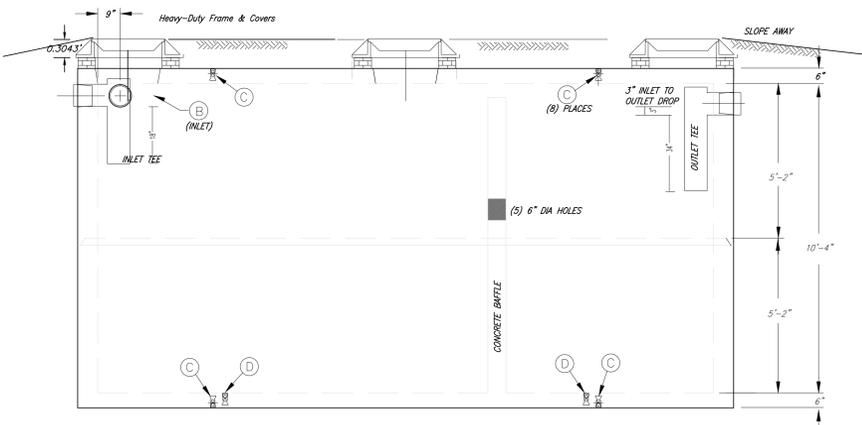


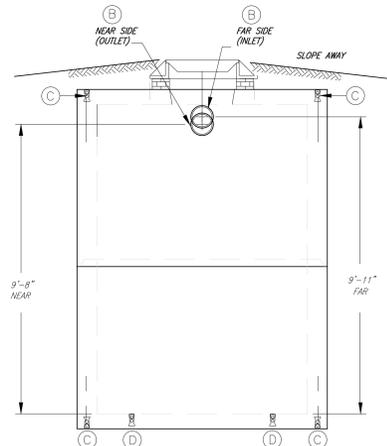
PLAN VIEW



REBAR DIAGRAM



ELEVATION VIEW



SIDE VIEW

DESIGN NOTES

1. CONCRETE: 5000 PSI @ 28 DAYS.
2. REBAR: GRADE 60 PER ASTM A615.
3. DESIGN LOADING: 44-20 EARTH COVER: 2' - 5'
4. GENERAL CONTRACTOR TO VERIFY ALL OPENINGS SIZES AND LOCATIONS.
5. ALL PIPE AND ROOF OPENINGS HAVE ADDITIONAL REBAR REINFORCEMENT.
6. JOINT TO BE SEALED WITH 1" BUTYL RUBBER.
7. ALL HARDWARE SHOWN BUT NOT DIMENSIONED IS FOR VISUAL REFERENCE ONLY-DO NOT SCALE FOR PLACEMENT.

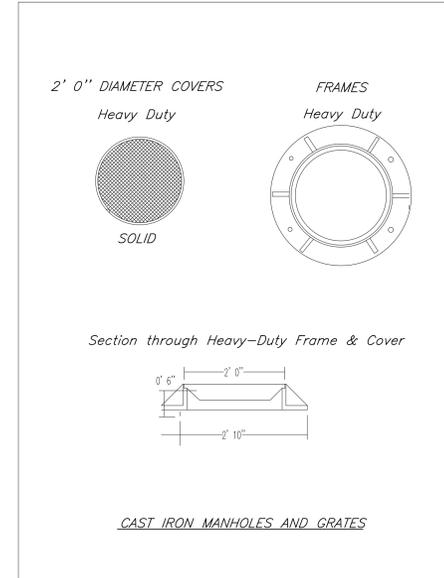
DATA CHART

LTR	QTY	DESCRIPTION
(A)	3	24" DIA. CLEANOUT
(B)	4	8" DIA. KNOCKOUT
(C)	8	BURKE (B) TON ERECTION ANCHOR
(D)	4	BURKE (B) TON FLATFOOT ANCHOR

Unit Weight:
TOP: 43,500 lbs.
BOTTOM: 43,500 lbs.

LIST OF MATERIAL

PC. NO.	NO. REQ'D	DESCRIPTION	SUPPLIED BY
1		#4 REBAR	CHASE
2		#5 REBAR	CHASE
3	8 PCS.	BURKE (B) TON ERECTION ANCHOR	CHASE
4	4 PCS.	BURKE (B) TON FLATFOOT ANCHOR	CHASE
5	60 LN. FT.	1" BUTYL RUBBER	CHASE



CAST IRON MANHOLES AND GRATES

CONSTRUCTION NOTES

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO ANY FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL FURTHER MEASUREMENTS AS MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE WORK, AND HE SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF THE MEASUREMENTS. ANY DISCREPANCIES FOUND BETWEEN THE DIMENSIONS SHOWN ON THE DRAWINGS AND FIELD MEASURED DIMENSIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNERS FIELD REPRESENTATIVE.
2. THE SEPTIC TANK SHALL BE EQUAL TO CHASE WATER TIGHT PRECAST CONCRETE PUMP CHAMBER AS MANUFACTURED BY CHASE INC., AVON, CT. (OR APPROVED EQUAL)
3. MINIMUM SEPARATION DISTANCE FROM CHAMBER TO BUILDING FOUNDATION SHALL BE 10'-0".
4. ALL TANKS SHALL BE PLACED ON DRY COMPACTED SUB-BASE BENEATH 6" LAYER OF COMPACTED 3/4" TO 1 1/2" CRUSHED STONE BEDDING.
5. IF UNSTABLE MATERIAL IS ENCOUNTERED, IT SHALL BE REMOVED TO THE DEPTH INDICATED BY THE ENGINEER AND REPLACED WITH APPROVED COMPACTED CRUSHED STONE AS DIRECTED.
6. THE ENTIRE OUTSIDE SURFACE OF STRUCTURE SHALL BE COATED WITH A COAT OF BITUMASTIC SUPER BLACK.
7. ALL JOINTS SHALL HAVE PRE-FORMED JOINT SEALING COMPOUND.
8. SEPTIC TANK ACCESS MANHOLE COVERS TO BE HEAVY DUTY CAST IRON.
9. OBSERVING FINISHED GRADE AROUND THE EXISTING ADJACENT EFFLUENT PUMP STATION AT ELEVATION 63.5' WITH NO VISIBLE WATER CONDITION, AND THE BOTTOM OF THE PROPOSED EQUALIZATION TANK AT ELEVATION 62.7' AND THE TANK WEIGHT AT 87,000 LBS BUOYANCY WILL BE PREVENTED. (SEE CALCULATION BELOW)

CALCULATION

$$\begin{aligned} \text{BUOYANCY} &= A \times g \times h \\ &= (20.5' \times 8.33')(62.4)(11) = 117,213 \text{ lbs} \\ \text{TANK WEIGHT} &= 87,000 \text{ lbs} \\ \text{FILL ABOVE TANK} &= 5' \times (20.5' \times 8.33')(115 \text{ lbs/cf}) \\ &= 58,913 \text{ lbs} \\ \text{TOTAL WEIGHT} &= 87,000 \text{ lbs} + 58,913 \text{ lbs} \\ \text{(TANK WEIGHT + FILL WEIGHT)} &= 145,913 \text{ lbs} \\ \therefore 145,913 \text{ lbs} &> 117,213 \text{ lbs (TANK WILL NOT FLOAT)} \end{aligned}$$

REV.	DESCRIPTION	BY	DATE
1	TOWN PLANNER MEMO (7/8/2010) & TOWN ENGINEER MEMO (7/9/2010)	PL	December 29, 2010
2	TOWN PLANNER MEMO (9/9/2011) & TOWN ENGINEER MEMO (9/3/2011)	DPG	February 24, 2012
3	COMPLETENESS SUBMISSION	DPG	July 31, 2012
4	ACCEPTED DRAWING SET	DPG	September 12, 2012
5	RESOLUTION 139-13	PJG	April 22, 2013

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

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SEPTIC TANK DETAIL
WASTEWATER TREATMENT FACILITY
HIGHGATE - WOODLANDS AT NORTH SALEM
REED ROAD AND HARDCRABBLE ROAD
TOWN OF NORTH SALEM
COUNTY OF WESTCHESTER
STATE OF NEW YORK

DRAWN BY: PL
CHECKED BY: DC
SCALE: AS NOTED
DATE: NOVEMBER 1, 2005
JOB NUMBER: SHEET
ST-1, WWTP 9 OF 15

P.E. for Civil Engineering Only