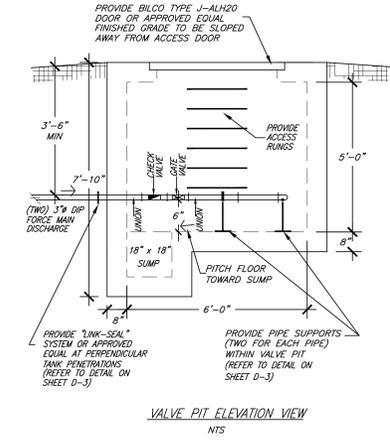
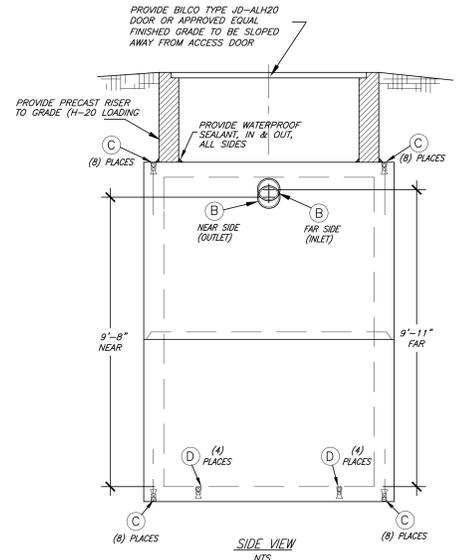
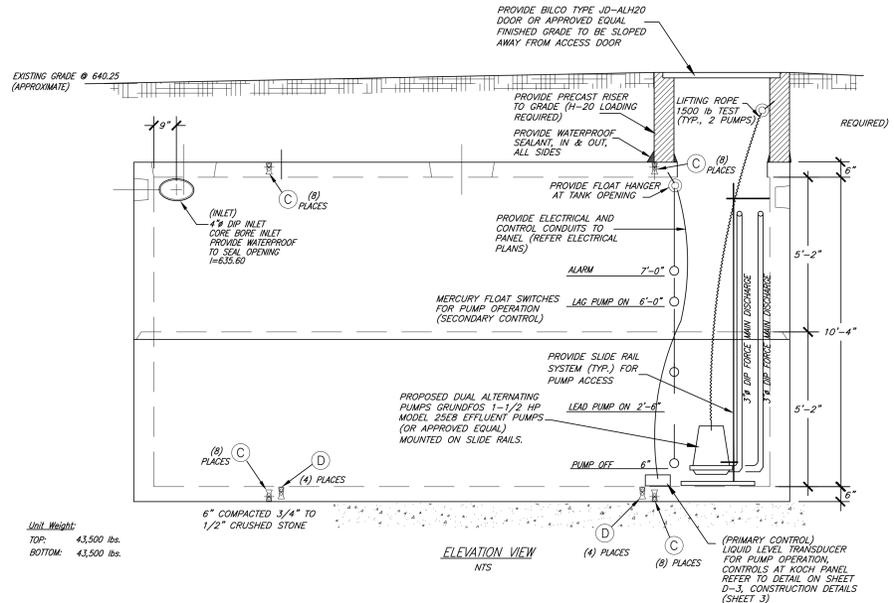


- EQUIPMENT NOTES**
1. THE CONTRACTOR SHALL FURNISH AND INSTALL DUAL COULDS SUBMERSIBLE PUMPS ON SLIDE RAILS SERIES 100. EACH UNIT SHOULD BE DRIVEN BY A 1/3 H.P. AND 115 V MOTOR, AND BE RATED AT 30 GPM FOR 20 FEET TDH.
 2. THE CONTROL PANEL IS TO BE A COULDS DUPLEX CONTROL SYSTEM OF APPROVED EQUAL. IT IS TO BE INSTALLED IN THE BUILDING ENCLOSED IN A NEMA 1 STEEL ENCLOSURE. THE PANEL SHOULD INCLUDE 2 PUMP CIRCUIT BREAKERS, 2 MAGNETIC CONTACTORS, 2 RUN INDICATOR LIGHTS, AND 2 HAND-OFF-AUTOMATIC SWITCHES. THE PANEL SHOULD BE EQUIPPED WITH AUDIO VISUAL ALARMS BY UTILIZING A 4" ALARM BELL, RED INDICATOR LIGHTS, AND AN OFF-RESET-NORMAL SWITCH.
 3. THE FLOAT SYSTEM IS TO INCLUDE 4 MERCURY FLOAT BULBS TO INDICATE ON, OFF, LAG, AND ALARM.
 4. ALL ELECTRICAL WORK IN AND INCIDENTAL TO PUMP CHAMBER SHALL COMPLY TO THE NATIONAL ELECTRICAL CODE FOR CLASS 1, GROUP D, DIVISION 1 LOCATIONS. NO SPLICING OF WIRES SHALL OCCUR WITHIN THE PUMP CHAMBER.
 5. ALL PUMP AND CONTROL WIRING IS TO BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT ANY OUTSIDE SPLICES.

- 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 PUMP CHAMBER SHALL BE EQUAL TO CHASE WATERIGHT 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 INDICATED BY DEPTH 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. PUMP CHAMBER ACCESS DOOR SHALL BE TYPE #1 AS MANUFACTURED BY THE BILCO COMPANY (OR APPROVED EQUAL). ACCESS DOORS SHALL BE OF AN ALUMINUM DIAMOND PLATE PATTERN (MIN. 1/4" THICK) AND SHALL BE SUPPLIED COMPLETE WITH HINGED COVER, RELEASE HANDLE AND LOCK, EQUIPPED WITH SUPPORTS AND HOLDER FOR POWER AND CONTROL CORDS.
 9. OBSERVING FINISHED GRADE AROUND THE EXISTING ADJACENT EFFLUENT PUMP STATION AT ELEVATION 630' WITH NO VISIBLE WATER CONDITION, AND THE BOTTOM OF THE PROPOSED EQUALIZATION TANK AT ELEVATION 623' AND THE TANK ROOF AT 610.00' FS BUOYANCY WILL BE PREVENTED. (SEE CALCULATION BELOW)



CALCULATION

BUOYANCY = $A \times g \times h$
 = $(20.5' \times 8.33')(62.4) = 112,213 \text{ lbs}$

TANK WEIGHT = 87,000 lbs
 FILL ABOVE TANK = $3' \times (20.5' \times 8.33')(15 \text{ lbs/cf}) = 58,913 \text{ lbs}$

TOTAL WEIGHT (TANK WEIGHT + FILL WEIGHT) = 87,000 lbs + 58,913 lbs = 145,913 lbs

∴ 145,913 lbs > 112,213 lbs (TANK WILL NOT FLOAT)

- DESIGN NOTES**
1. CONCRETE: 5000 PSI @ 28 DAYS.
 2. REBAR: GRADE 60 PER ASTM A615.
 3. DESIGN LOADING: H=20
 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.

LIST OF MATERIAL			DATA CHECK		
PC. NO.	NO. REQ'D	DESCRIPTION	SUPPLIED BY	LTR	QTY
1		#4 REBAR	CHASE	(A)	3
2		#5 REBAR	CHASE	(B)	4
3	8 PCS.	BURKE (B) TON ERECTION ANCHOR	CHASE	(C)	8
4	4 PCS.	BURKE (B) TON FLATFOOT ANCHOR	CHASE	(D)	4
5	60 LN. FT.	1" BUTYL RUBBER	CHASE		

CONTRACTOR TO VERIFY ALL INFORMATION SHOWN COMPLES WITH CONTRACT DOCUMENTS AND MEETS WITH FIELD CONDITIONS.

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

OWNER / APPLICANT	PLANNING & LANDSCAPE DESIGN	PROJECT SURVEYOR	PROJECT ENGINEER	RESOLUTION	DATE
JOFLO OF NORTH SALEM Box 20720 Cherokee Station New York, NY 10021-0074 Tel: (212) 988-8293 Fax: (775) 923-2292 Email: joflo.north.salem@gmail.com	TIM MILLER ASSOCIATES, INC. 10 North Street Cold Spring, NY 10516 Tel: (212) 988-8293 Fax: (775) 923-2292 Email: tim.miller@timillerassociates.com	BUNNEY ASSOCIATES Professional Land Surveyor 301 Fields Lane Brewster, NY 10509 Tel: (845) 277-3404 e-mail: bunnay.associates@verizon.net	KEANE COPPELMAN GREGORY ENGINEERS, P.C. 113 Smith Avenue Mount Kisco, NY 10549 Tel: 914.241.2235 e-mail: INFO@KCGENGINEERS.COM	EQ-1, WWTP 10 OF 15	APRIL 22, 2013

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

DRAWN BY: RN
 CHECKED BY: DC
 SCALE: AS NOTED
 DATE: NOVEMBER 1, 2005
 JOB NUMBER: SHEET
 STATE OF NEW YORK