DATE: 09/21/07

PIERSON ENGINEERING SURVEYING

P.O. BOX 311 1324 ROANOKE ROAD DALEVILLE, VA 24083

(540) 966-3027 TEL (540) 966-5906 FAX

- EARTH FILL

MAIN DISCONNECT

Nema III or Better.

METER BOX

STONE, #57

- 1/4" WEEP OPENING

UNDERGROUND WIRES TO CONNECTION

CONNECTIONS TO BE MADE IN WATER-PROOFED JUNCTIN BOX.

-2" BRASS CHECK VALVE

2" GATE VALVE W/ LOCKING STEM

TO DRAIN FIELD

FORCE MAIN TRENCH

2" UNION

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2" 90° ELBOW

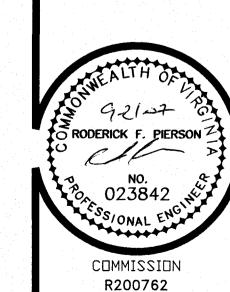
PULL ROPE / CHAIN

PUMP

N.T.S.

ASTLE FINC, BOTI

PUMP STATION



SHEET

PUMP CHAMBER 1000 GALLON PRECAST TANK NOT TO SCALE

UNDISTURBED EAR

All Float Swithces To Be Mounted on Float Tree, Not Discharge Piping

Handreach of Top Of Riser.

2" Union @ 2" 90° Elbow To Be Within

ALARM

PUMP ON

PUMP OFF

DPENING

Static Head, Ft. 30 ft. Friction Head, Ft. 5.0 ft. Total Dynamic Head, Ft. 35.0 ft.

Working Volume, gal.

Engineer and the Local Health Department. 5. All construction of these sewerage systems to in accordance with the State Board Of Health Sewerage Handling and Disposal Regulations and local building codes.

6. Alarms (light and horn) to be mounted on interior of building or inside NEMA III enclosure. Separate electrical circuit to be provided.

All force mains shall be tested to 75 psi for one (1)

7. Disconnect switch to be located on building within sight of pump chamber.

1. Pumps: Goulds Model WE0512HH, 1/2hp, Single Phase, 230 Volts, 3500rpm

2. Controls: Switches — Goulds A2—3 (2 — required) or A2—7 (1 — required) or approved equal. Goulds A3 Simples Pump Control A3—2012

3. Piping and Valves: All gravity lines and force mains to be Schedule 40.

4. Locations of drain fields, septic tanks, pump stations, pipe lines and

hour with no leakage permitted.

distribution boxes are approximate and are subject to minor adjustments during construction. Any significant deviations must be approved by the

All bends shall have concrete thrust blocks.

or approved equal.

or approved equal.

General Notes:

9. All pipe fittings on force main shall be pressure rated fittings.

10. No junction boxes will be allowed inside the pump chamber.

11. Keep well 50' from house and 100' from drainfield.

DESIGN INFORMATION:

Flow rate, G.P.M. 35 G.P.M.

Force Main Velocity, ft/sec. 3.7 ft/sec.

Pump Run Time/Cycle

137 gal.

Storage Volume, gal.

4" SCH. 40 PLASTIC PIPE FROM SEPTIC TANK 3.9 min. 276 gal.

+74'

VARIABLE