

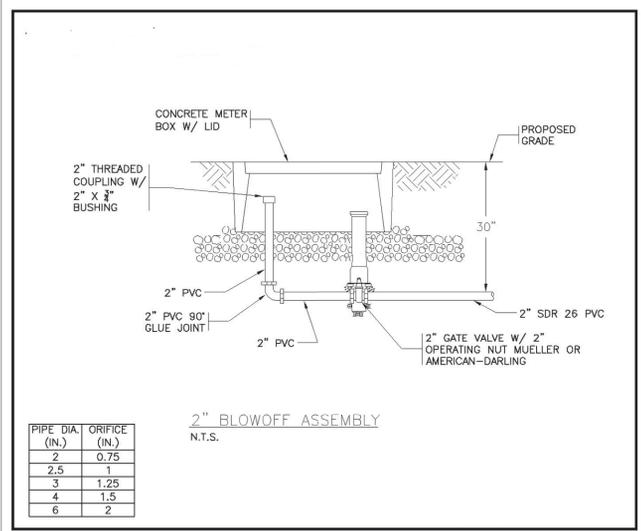
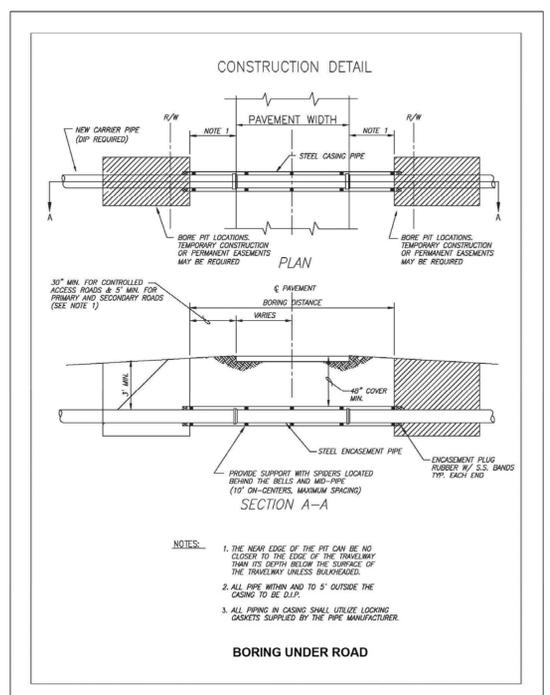
REV.	DATE	DESCRIPTION
1	7/10/17	

**SPERO CORPORATION**  
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Simpsonville, SC 29681  
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DEEP WATER POINT WATERLINE

DEEP WATER POINT WATERLINE

DETAIL SHEET 1  
DATE: 12/08/16  
SCALE: NTS  
JOB NO. 446.001  
SHEET: 2 OF 2



THRUST BLOCK DETAIL FOR TEES & BENDS

- NOTES:  
1. THRUST BLOCKS SHALL BE CONSTRUCTED OF 3000 P.S.I. CONCRETE.  
2. THE CONTRACTOR SHALL USE MECHANICAL RESTRAINTS UNLESS OTHERWISE INSTRUCTED.  
3. CONTRACTOR SHALL PROVIDE CALCULATIONS FOR INSTALLATION OF MECHANICAL RESTRAINTS.  
4. THRUST BLOCKING DIMENSIONS ARE BASED ON A TEST PRESSURE OF 200 PSI. CONTRACTOR SHALL SUBMIT CALCULATIONS TO ENGINEER FOR REDUCED BLOCKING DIMENSIONS BASED ON ACTUAL OPERATING PRESSURES.

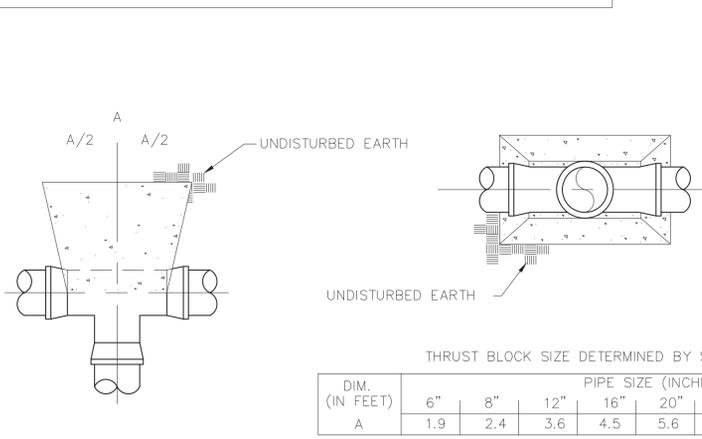
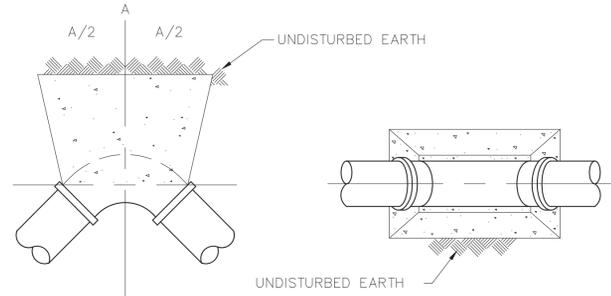
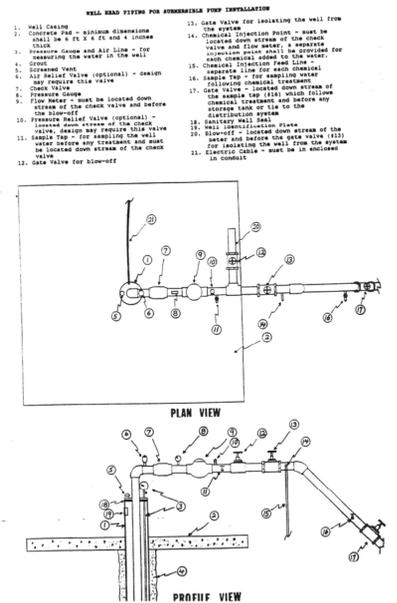
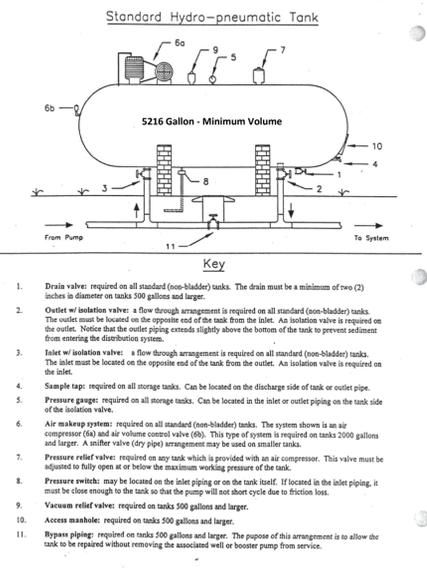


TABLE "A" (DIMENSIONS IN FEET)  
PIPE SIZE (NOM. DIA. IN INCHES)

BEND	6"	8"	12"	16"	20"	24"	30"	36"	48"
90°	2.2	2.9	4.2	5.3	6.6	8.0	10.7	12.8	16.9
45°	1.6	2.1	3.1	3.9	4.9	5.9	7.8	9.4	12.5
22 1/2°	1.2	1.5	2.3	2.8	3.5	4.2	5.6	6.7	8.9
11 1/4°	.8	1.1	1.6	2.0	2.5	3.0	4.0	4.8	6.3

Diagram 3: Storage Tank Piping for Small Water Systems



- Submersible Pump System Specification
- Well casing: top of well casing shall extend 12" above concrete pad or pump house floor.
  - Concrete Pad at well head shall have a minimum radius of 3' and thickness of 4".
  - Well identification plate must be permanently installed.
  - Well must be grouted in accordance with construction specifications of this permit.
  - Screened vent must face downward with opening of 18" above concrete pad or floor, and have opening of 0.24" or less.
  - The required flow meter shall be located downstream of the check valve and before the blow-off. The flow meter shall be capable of measuring instantaneous and totalized flow.
  - A pressure relief valve shall be installed upstream of the required gate valve.
  - The sample port shall be located downstream of the flow meter and upstream of the gate valve.
  - A blow off with and gate valve shall be located downstream of the flow meter and upstream of the gate valve.
  - A gate valve is required to isolate the well from the system, and isolate the tank from the distribution system.
  - Sanitary well seals shall be installed at all openings other than the screened vent.
  - Electrical cables shall be enclosed in conduit to meet applicable current electric codes.