

Underground Septic Tanks & Pump Chambers

- 1.) Tanks shall be structurally sound and to withstand the
- 2.) Tanks shall be watertight and waterproof.
- 3.) Tanks shall be pre cast concrete, or approved equivalents 4.) Manufacturers of septic tanks shall implement a quality
- control/ quality assurance program in conformity with ASTM standard C-1227-93. Tanks shall be embossed with a seal stating that this ASTM standard has been met. Tanks not embossed with a seal shall be rejected
- 5.) Tanks shall be accessible for inspection and maintain ance. No structures shall be located directly upon, above, or near the tanks which may interfere with performance, access, inspection, and pumping or repair.
- 6.) Inlet and outlet tees shall be of cast iron, schedule 40 pvc, or approved equal.
- Septic tanks shall be provided with at least three (3) 20" diameter manholes. Manholes shall be at the center and over each inlet and outlet tee. For compartment tanks, the center manhole shall be the access to the compartment connection. System designs in excess of 1,000 GPD, all manholes shall be made accessible. For system designs of 1,000 GPD or less at least one manhole shall be made accessible. If applicable provide watertight access port (risers), precast concrete or equiv alent, with steps where appropriate. Manhole covers shall be removable, and of impermeable and durable material. Covers shall be within six inches of finished grade and shall be secured to prevent unauthorized

8.) INSTALLATION:

- A) Tanks shall be installed true to grade on a level stable base that has been mechanically compacted, and on which six inches of crushed stone has been placed to ensure stability and to prevent settling.
- Septic tank shall have a minimum of nine inches of cover B) The inlet and outlet tees shall be installed to the grades shown on the drawings. The tees shall extend a minimum of six inches above the flow line of the septic tank and shall be on the center line of the septic tank and located directly under the access manholes. Cross-sectional flow baffles shall not be used as substitutes for inlet or outlet tees.
- C) FOR REPAIRS Contractor SHALL when connecting a new septic tank to an existing sewer line. Verify sewer line is Sch. 40 or C.I. in good condition or it shall be replaced. Also that: all out flow pipes from building run thru/to septic tank, and invs. are correct prior to any excavating.

 All work in conformance with Mass. State Plumbing Code.

DESIGN CRITERIA

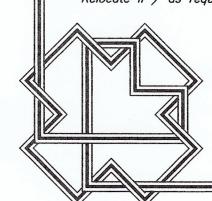
- 9.) Unless otherwise noted (UON), the design of this system conforms to the requirements of the Commonwealth Of Massachusetts Environmental Code "Title V", and the requirements of the local board of health.
- 10.) The design of this system did not allow for the use of a garbage disposal.
- 11.) The septic tank shall be inspected and cleaned in accord. with 310 CMR 15.300 and applicable local requirements.
- 12.) Grease trap; If applicable, shall be inspected every month, and shall be cleaned every 3 months or when the level of grease is 25% of the effective depth of the
- 13.) The design of this system conforms with the following minimum distances from the proposed sanitary system: A.) Surface water supply or gravel packed wells....400 ft.
- B.) Tubular public wells.... D.) non potable / irrigation wells...... ..200 ft.
- E.) Other sanitary soil absorbtion system..... 10 ft.
- 4.) No structures shall be located upon, above, or within 20' of the leaching facility. The reserve area (100% expansion) is considered to be the same as the leaching facility.
- 15.) The top of all system components, including the septic tank, distribution box or dosing chamber and soil absorption system, shall be installed no more than 36"

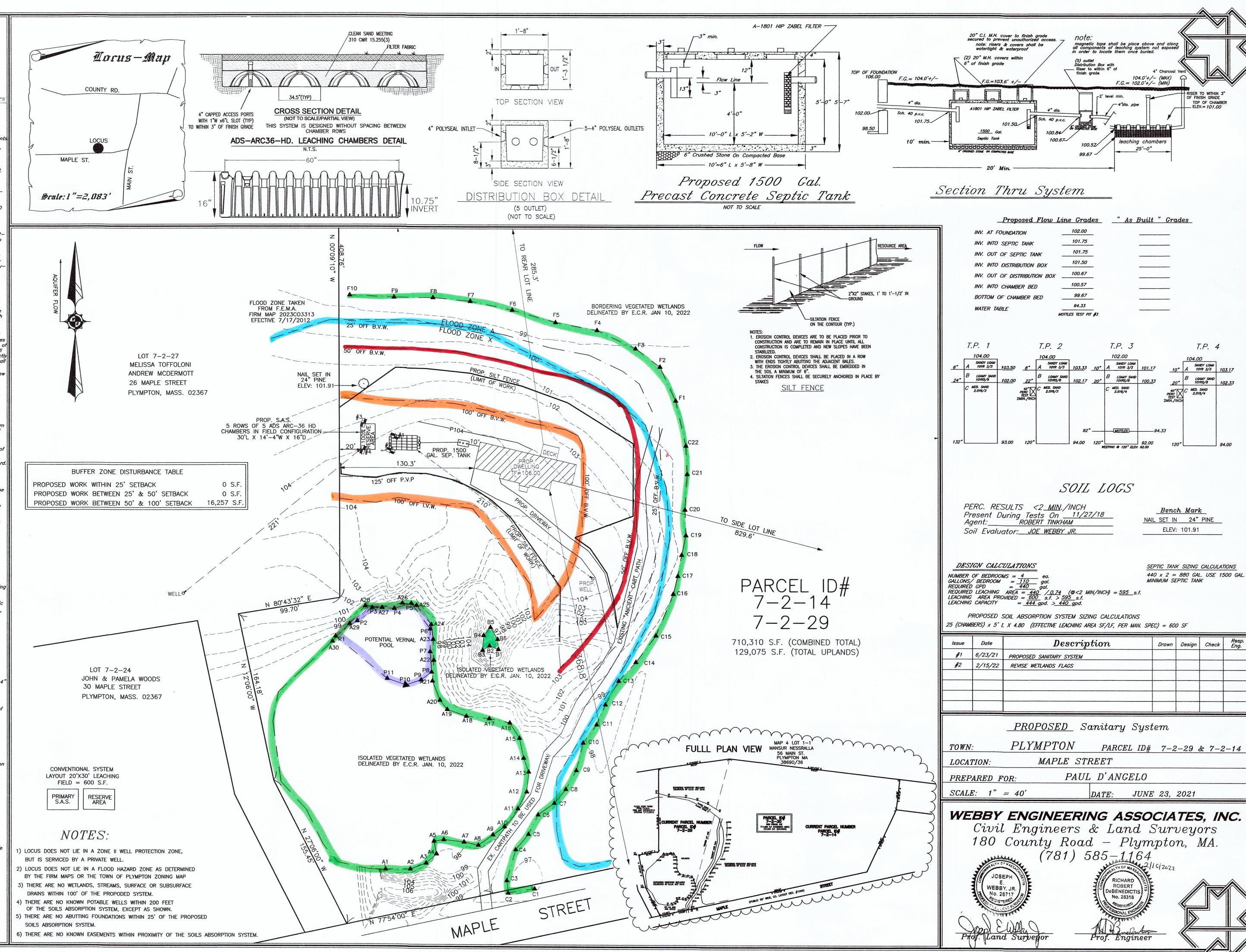
Leaching Chambers Area

- 16.) Leaching chamber shall be an ARC-36 HC. LEACHING chamber or engineer approved equal.
- 17.) All installations shall be true to line and grade.
- 18.) All piping shall be PVC SCH. 40
- 19.) Distribution pipe(s) shall have a minimum diameter of 4" and a minimum slope of 0.01.
- 20.) All unsuitable material including top soil and sub soil shall be removed as follows: nove soils to elevation , and a distance of ft. in all directions of the designated leaching Remove soils to elevation
- 21.) Removed soils shall be replaced with clean sand, meeting the requirements of 310 CMR 15.255(3).

Inspection Schedule 23.) To obtain the board of health certification, confirmation

- of the proper installation is required. a.) After Excavation of unsuitable material
 - b.) Placement of the clean back fill Meeting 310 CMR 15.255(3)
 - c.) Installation of the system with all components exposed for inspection and preparation of "As Built" Plan.
 - d.) When existing ground elevations are changed a finished ground elev. "asbuilt" shall be required prior to certificate of compliance being issued. Utility Notes
- 24.) The location of utilities are approximate only. Dig-Safe and other appropriate authorities shall be notified to verify actual locations, prior to any excavating. Relocate if / as required.





T.P. 4

LOAMY SAND 10YR5/8 102.33

Resp. Eng.

10" A 107R 3/3 103.17

40" C MED. SAND PERC Z.578/4

Bench Mark

ELEV: 101.91

Drawn Design Check