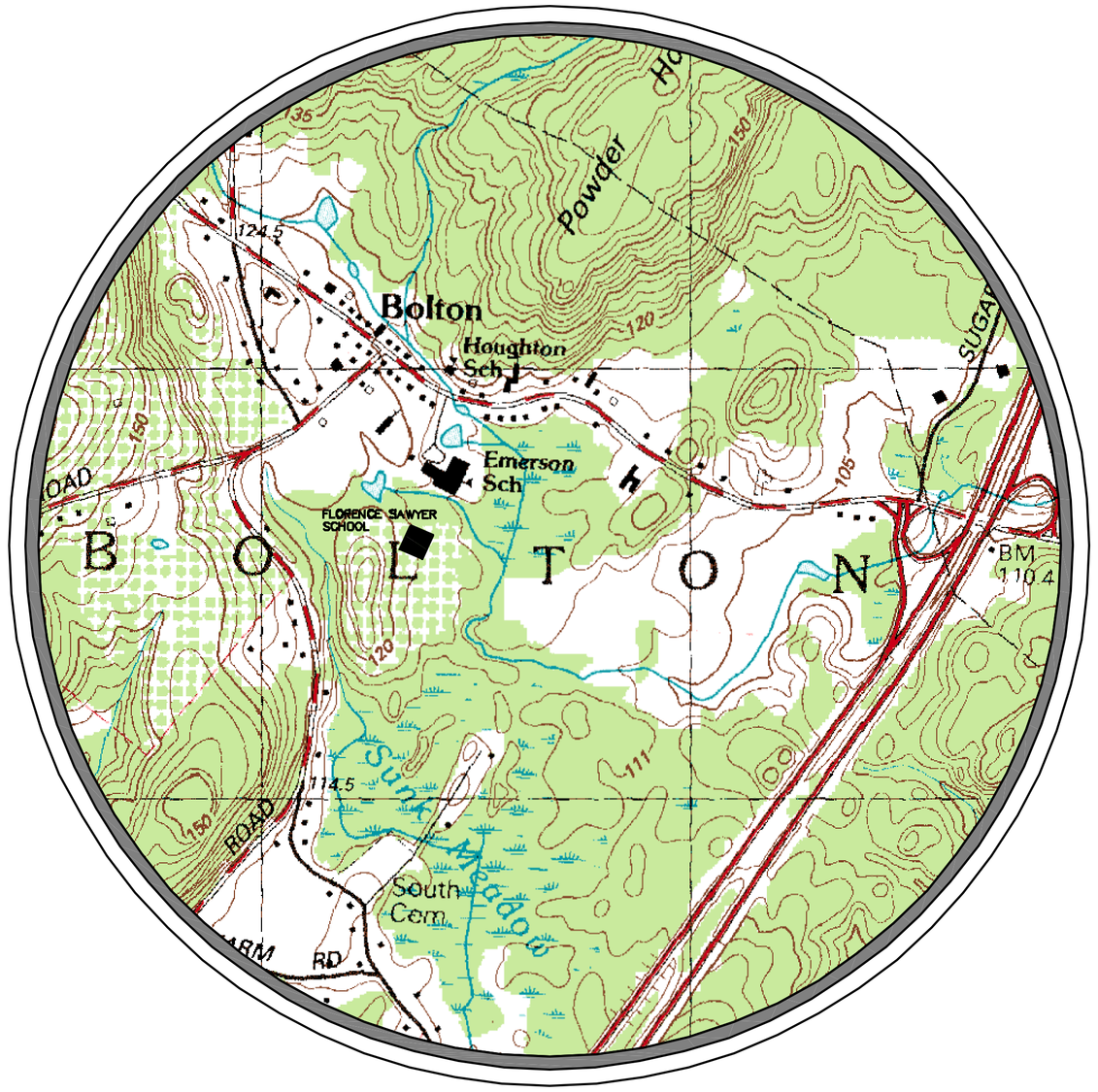
PROPOSED SEWAGE DISPOSAL SYSTEMS

EMERSON & FLORENCE SAWYER SCHOOLS



SITE LOCUS

TITLE SHEET

VARIANCES REQUESTED:

1. 310 CMR 15.223(1) MULTIPLE COMPARTMENT SEPTIC TANKS

   REQUIRED: The first compartment to be sized for a detention time of 48 hours of the design flow and the second compartment to be sized for a detention time of 24 hours of the design flow.

   REQUESTED: To allow the existing two compartment 24,000 gallon septic tank to remain. Based on the design flow of 8,250 gpd the existing septic tank's first compartment provides a capacity of 91% of the design flow and the second compartment provides a capacity of 91% of the design flow.

GENERAL NOTES

1. Elevations refer to the United States Geodetic Survey (U.S.G.S.) of 1929. See Bench Mark located on Plot Plan.
2. Finish grading to be done in accordance with the plot plan.
3. Percolation tests performed in accordance with the instructions in 310 CMR (Title 5) Regulations 15.104 & 15.105.
4. All construction to conform to Title 5 of the Massachusetts State Environmental Code, and the Board of Health requirements for the Town of Bolton, Massachusetts.
5. All topsoil, subsoil, and deleterious material, if any, must be excavated and removed below the soil absorption system and to a distance of **5** feet from all sides of the leaching trenches. Excavate down to **3** inches below the surface of the natural permeable soil. Backfill material shall consist of select on-site or imported soil free from fines, clay, organic mater and large boulders, meeting the requirements of 310 CMR 15.255(3) having a percolation rate in its original location and after placement of 2 minutes per inch or faster. Fill material for systems constructed in fill shall consist of select on-site or imported soil material. The fill shall be comprised of clean granular sand, free from organic matter and deleterious substances. Mixtures and layers of different classes of soil shall not be used. The fill shall not contain any material larger than two inches. A sieve analysis, using a #4 sieve, shall be performed on a representative sample of the fill. Up to 45% by weight of the fill sample may be retained on the #4 sieve. Sieve analysis also shall be performed on the fraction of the fill sample passing the #4 sieve, such analysis must demonstrate that the material meets each of the following specifications:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
#4	4.75mm	100%
#50	0.30mm	10%-100%
#100	0.15mm	0%-20%
#200	0.075mm	0%-5%

6. All washed stone must be free from iron, fines, and dust in place. Stone aggregate shall be double washed in accordance with 310 CMR 15.247.
7. Tight joint piping to consist of Polyvinyl Chloride Pipe (P.V.C.), Schedule 40, unless otherwise noted.
8. In cases where ledge or boulders are present, Ducharme & Wheeler, Inc. will not be responsible for assuring the amount of rock encountered.
9. Any alterations to the designed plan must be approved in writing by Ducharme & Wheeler, Inc.
10. Heavy machinery shall not be permitted to pass over the soil absorption system.
11. The Board of Health shall require inspection of all construction by the design engineer of by an agent of the Board of Health, and require such a person to certify in writing that all work has been completed in accordance with the terms of the permit and the approved plans.
12. Construction within 100 feet of a wetland resource area as defined the Massachusetts Wetlands Regulations (310 CMR 10.000) and the Town of Bolton Wetlands Protection Bylaw shall not be performed until an Order of Conditions of Negative Determination of Applicability has been obtained from the local Conservation Commission.
13. Property lines shall be determined prior to the construction or installation of any of the proposed improvements shown hereon.
14. There are no wells within 200 feet of the proposed sewage disposal systems unless noted otherwise.
15. Ducharme & Wheeler, Inc. recommends that the contractor contact DIG SAFE at 1-888-344-7233 prior to excavation.

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PREPARED FOR: TOWN OF BOLTON
P.O. 278
BOLTON, MA 01740

TEL: (978) 779-2297
DATE: MARCH 31, 2004

NO.	DATE	DESCRIPTION	BY		
				DESIGN BY:	BJD FEB 04
				DRAWN BY:	BJD FEB 04
2	1/13/05	DEP COMMENTS	LRD		
1	7/16/04	DEP COMMENTS	GSR	CHECKED BY:	CDM 10/28/04

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