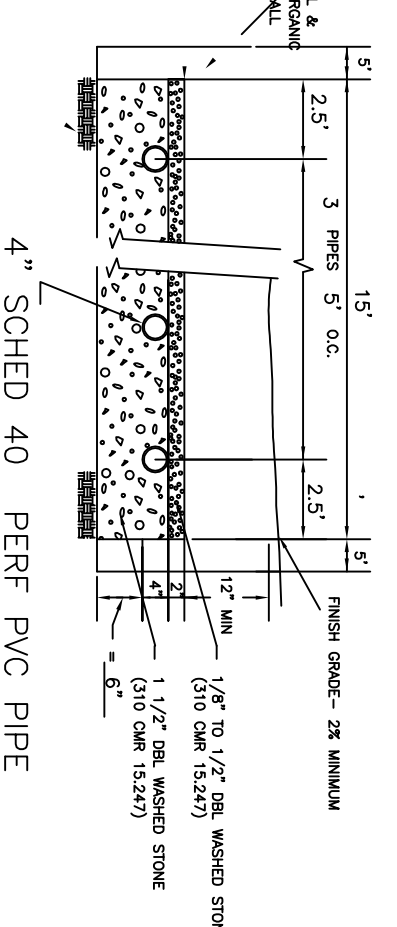
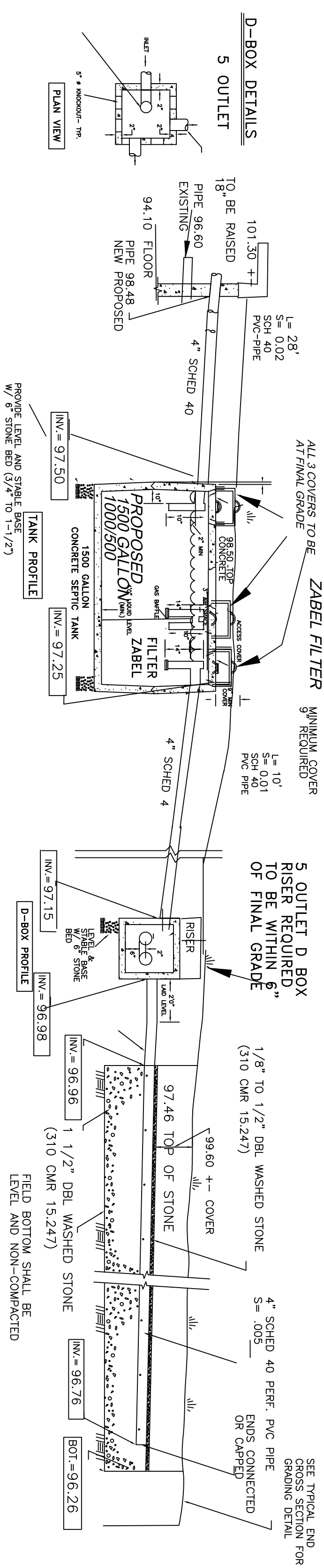


TYPICAL END CROSS SECTION



KEY ELEVATIONS

HOUSE SILL	101.30+/-
PIPE HOUSE NOW	96.60
PIPE HOUSE (NEW)	98.10
TANK IN	97.50
TANK OUT	97.25
DBOX IN	97.15
DBOX OUT	96.98
PIPE START	96.96
PIPE END	96.76
BED BOTTOM	96.26
TOP OF STONE	97.46
COVER	99.60



GENERAL NOTES

- 1- THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY OR ENGINEERED SITE PLAN.
- 2- ANY DISCREPANCY BETWEEN THESE PLANS AND THE APPARENT FIELD CONDITIONS TO BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION. THERE ARE NO WELLS OR WETLANDS WITHIN 100' OF PROPOSED SOIL ABSORPTION SYSTEM.
- 3- ALL WORK IS TO COMPLY WITH THE MASSACHUSETTS 310 CMR (TITLE 5) AND THE TOWN OF TOWNSEND BOARD OF HEALTH REGULATIONS.
- 4- CONTRACTOR TO GIVE THE DESIGNER 48 HOURS NOTICE FOR THE REQUIRED AS BUILT PLANS.
- 5- THIS SYSTEM IS NOT DESIGNED FOR THE USE OF A GARBAGE DISPOSAL IF ONE EXISTS IT MUST BE REMOVED.
- 6- IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANYWAY, THE DESIGNER AND THE APPROVING AUTHORITIES SHALL BE NOTIFIED IN WRITING BEFORE CONSTRUCTION BEGINS.

SYSTEM SPECIFICATIONS

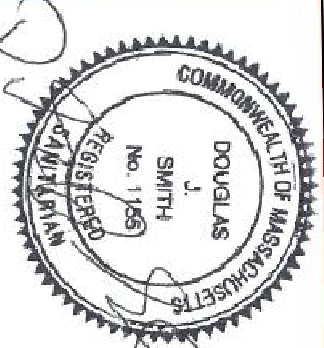
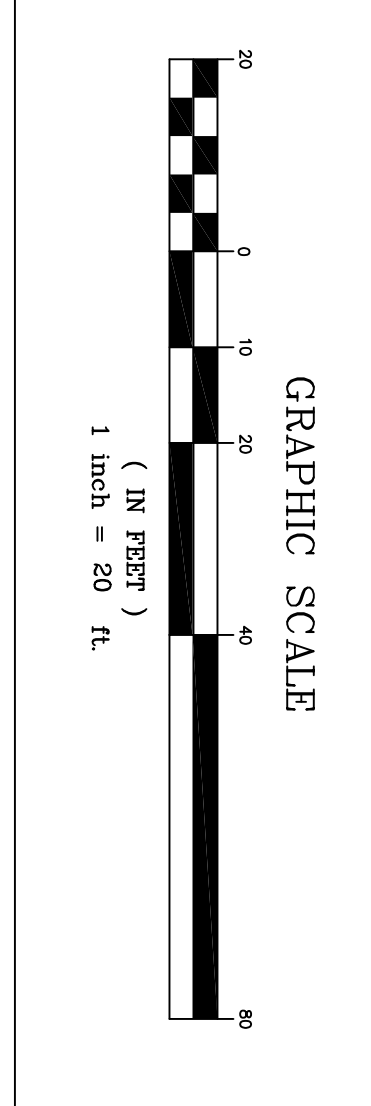
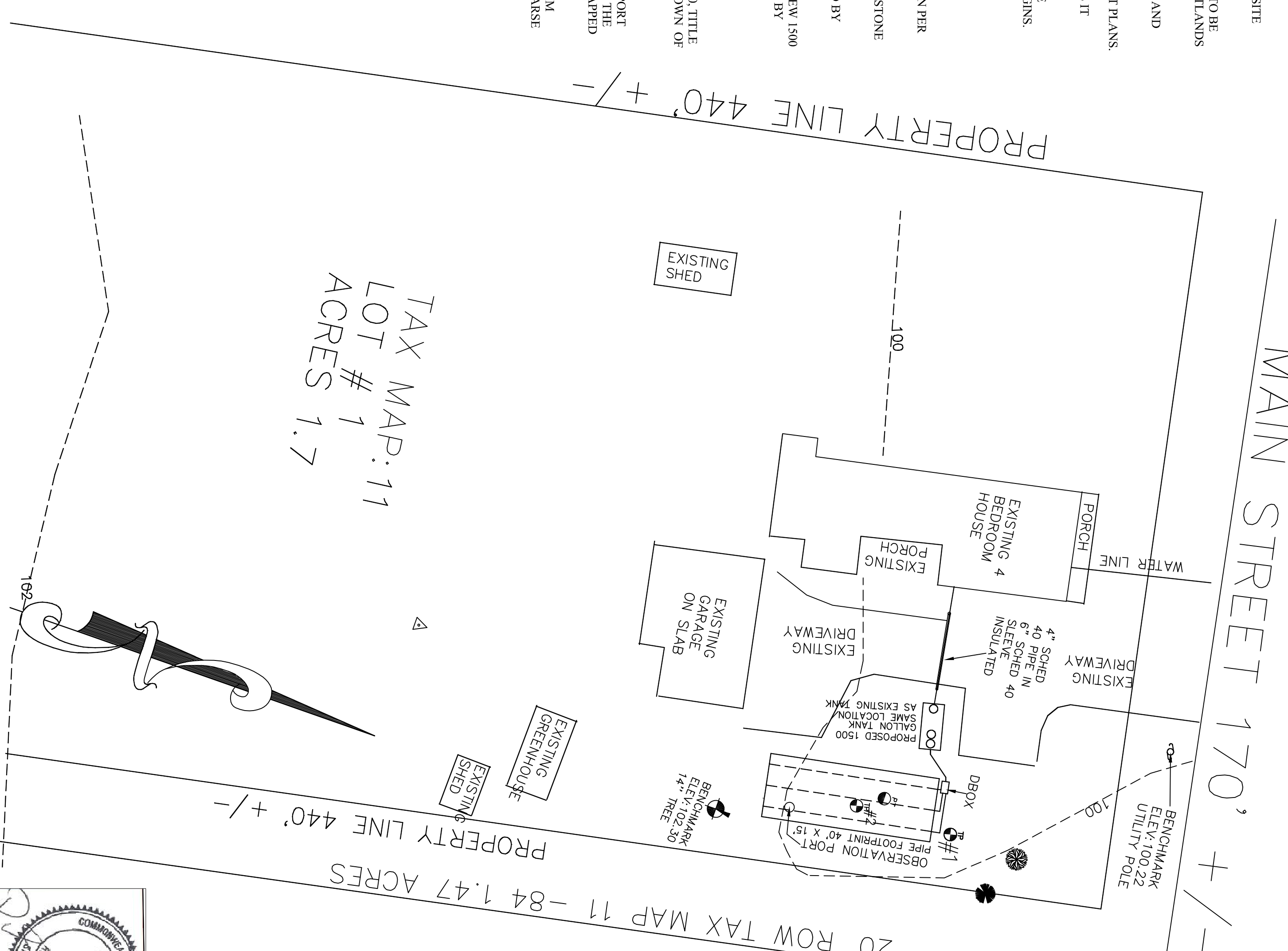
- 7- 4 BEDROOM HOUSE: 110 GPD PER BEDROOM = 440 GPD. PERC RATE PASTER THAN 2 MIN PER INCH (7/4 FACTOR) 440 / 74 = 595 SQ. FT. REQUIRED 600 SQ. FT. PROVIDED 40' X 15'
- 8- 3 ROWS OF 4 PERFORATED SCHED 40 PVC PIPES. PIPE SPACINGS 5' CENTER TO CENTER. STONE BED 2.5' ALL AROUND RESULTS IN 40' X 15' = 600 SQ. FT.
- 9- TEST PIT #1 & #2 AND PERC TEST A. BY DOUG SMITH, SOIL EVALUATOR. WITNESSED BY RICK METCALF B.O.H. NASHOBIA NOVEMBER 17, 2020. SEE TEST PIT PROFILES ON PLAN.
- 10- EXISTING TANK TO BE PUMPED, CRUSHED AND REMOVED THEN REPLACED WITH A NEW 1500 GALLON 2 COMPARTMENT TANK WITH ZABEL FILTER IN SECOND COMPARTMENT TANK BY LAMARRE CONCRETE OR EQUIV.. DISTRIBUTION BOX TO BE A 5 OUTLET MEDIUM SIZE DISTRIBUTION BOX SUPPLIED BY LAMARRE CONCRETE PRODUCTS OR EQUIV..
- 11- SEPTIC TANK SHALL BE PUMPED EVERY 3 YEARS BY A LICENSED SEPTAGE HAULER
- 12- 1 YEAR WARRANTY THAT THIS PLAN MEETS ALL REQUIREMENTS OF 310 CMR 15.000 TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ALL APPLICABLE REGULATIONS OF THE TOWN OF TOWNSEND BOARD OF HEALTH REGULATIONS
- 13- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR COMPARABLE MEANS IN ORDER TO RELOCATE THEM ONCE BURIED. AN OBSERVATION PORT CONSISTING OF A PERFORATED 4" PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURAL OCCURRING SOIL OR SAND FILL BELOW THE STONE. THE PIPE SHALL BE CAPPED WITH A SCHEDULE 40 PIPE AND BE ACCESSIBLE TO WITHIN 5' OF FINAL GRADE.
- 14- ANY FILL OR THE OLD EXISTING SYSTEM IF ENCOUNTERED IN PREPARING THE SYSTEM AREA INCLUDING THE 5' OVERBID IS TO BE REMOVED AND REPLACED WITH MEDIUM TO COARSE SAND FILL MEETING TITLE 5 SPECS.
- 15- SYSTEM AREA IS 20' MINIMUM TO HOUSE AND 10' MINIMUM TO PROPERTY LINE

OWNER INFORMATION

OWNER: CRYSTAL BOUCHER COLLINS 478 MAIN STREET WEST TOWNSEND, MA 01474
 PHONE: 508-548-5429
 TAX MAP 11 LOT #1
 DEED REFERENCE: BOOK 52942 PAGE 333 LAND SIZE 1.700 ACRES.

LEGEND

IRON PIN	WETLAND
GRANITE BOUND	DRILL HOLE
UTILITY POLE	TREE LINE
STONE WALL	SETBACK LINE
ANGLE POINT	STOCKADE FENCE
WELL	CHAINLINK FENCE
BENCHMARK	



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 MANCHESTER NH 03104
 603 487 2298

CRYSTAL BOUCHER COLLINS
 478 MAIN ST. WEST TOWNSEND MA 01474
 DECEMBER 9 2020
 REVISED JANUARY 24, 2021
 TAX MAP 11 LOT 1
 SHEET NO. 1 OF 1

SOIL CERTIFICATION

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017. The further analysis of the results of the soil evaluation, as indicated by the attached soil evaluation form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

DOUGLAS J. SMITH, R.S.#11155
 SOIL EVALUATOR SE 2267
 DOUGLAS J. SMITH, Ma. SOIL EVALUATOR TEST NOV. 11, 1999
 I PASSED THE SOIL EVALUATOR TEST

REVISED JANUARY 24, 2021
 FIX CELLAR FLOOR AND SEWER PIPE INVERT
 (EXISTING AND PROPOSED IN PROFILE)

TEST PIT LOG

LOCUS (NTS)

BASED ON TECHNICAL STANDARDS OF THE
 USDA/NRCS NATIONAL COOPERATIVE SOIL SURVEY.
 TP 1
 DATE - 11-17-2020 SHWT ELEV 90.15

0-10"	A	10YR3/3 SANDY LOAM
10"-24"	B	7.5 YR5/8 FINE SANDY LOAM
24"-117"	C	2.5Y6/4 SAND MED TO COARSE
		PERC TEST 1 MIN COULDN'T PRE SOAK
0-11"	A	10YR3/2 SANDY LOAM
11"-20"	B	7.5YR5/8 SANDY LOAM
20"-117"	C	2.5Y6/4 SAND MED TO COARSE
		SHWT: 117"

