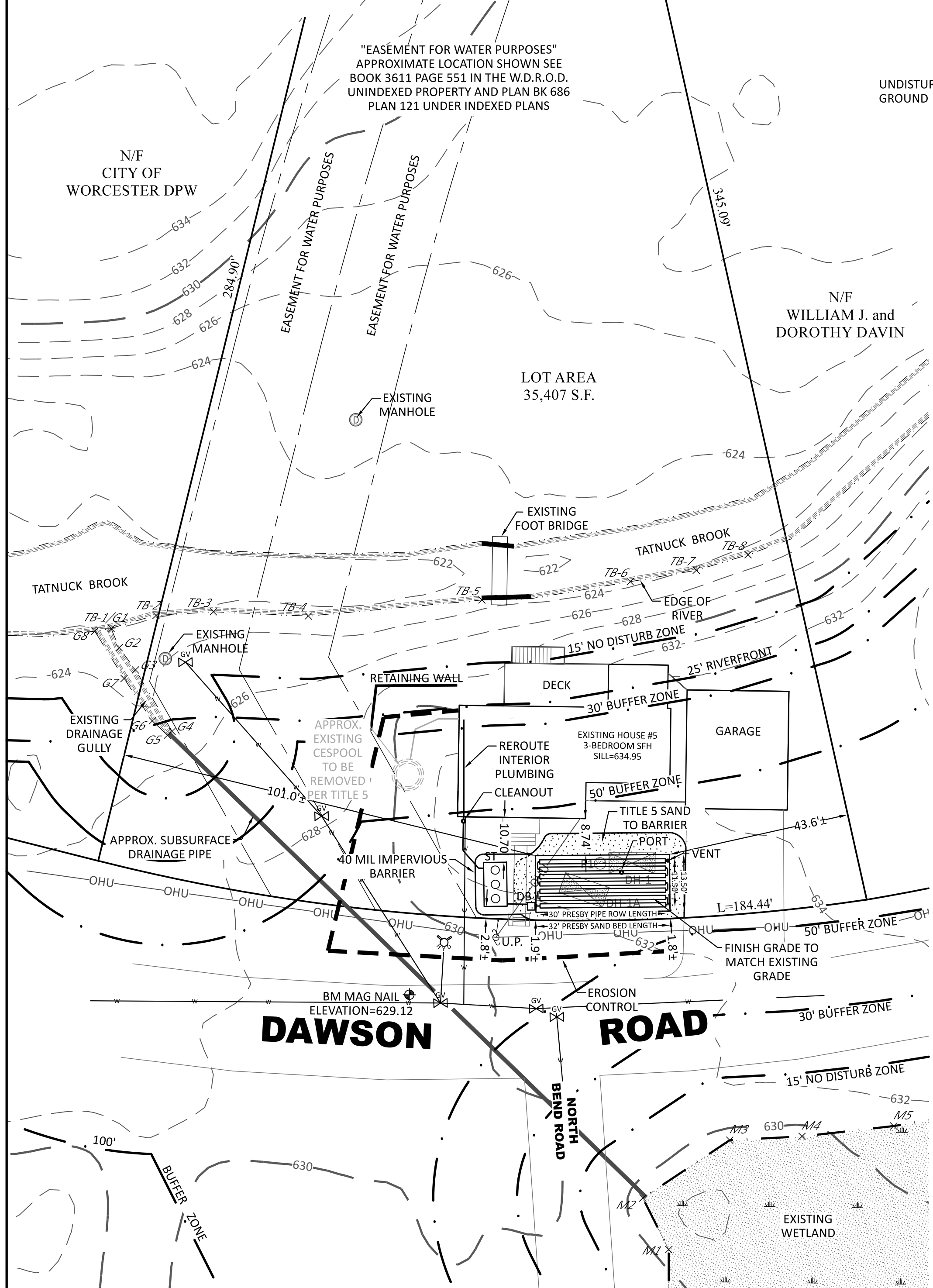
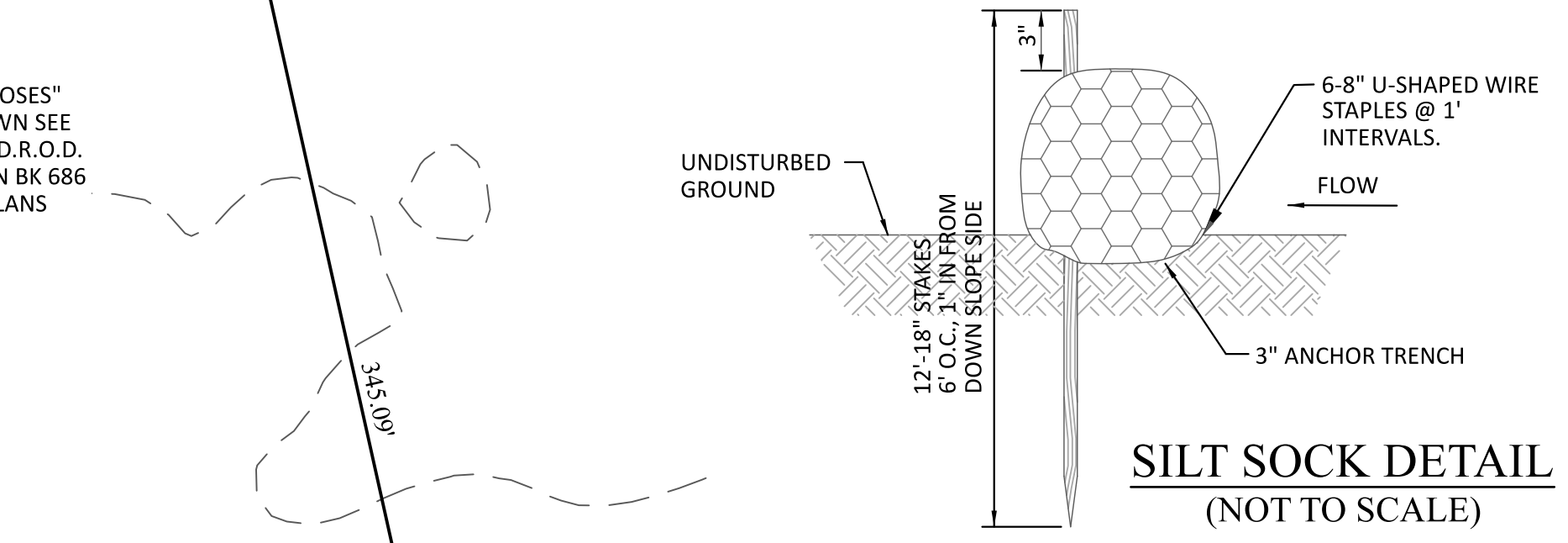
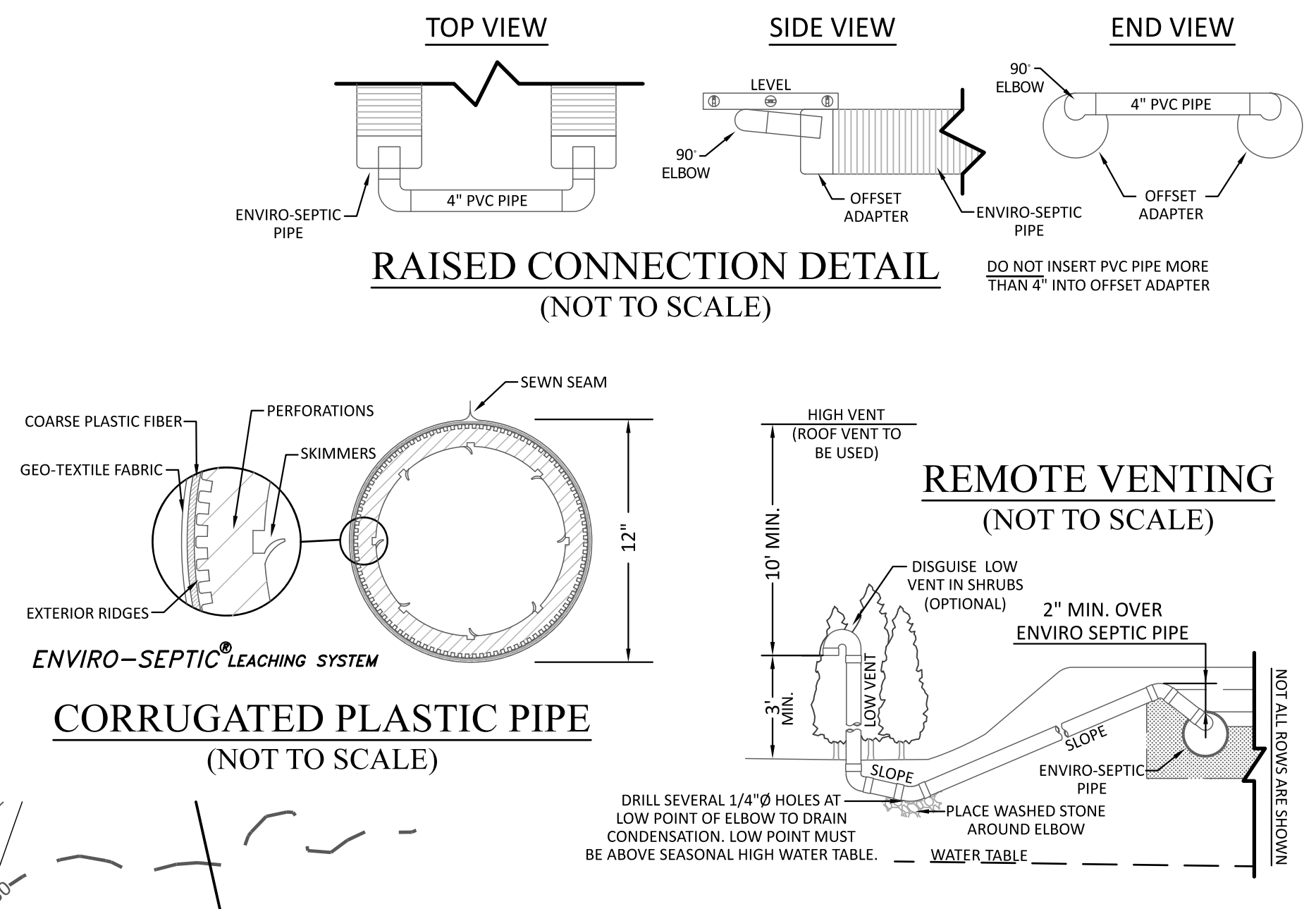


THERE ARE NO WELLS WITHIN 100' OF THE LEACHING AREA OR RESERVE AREA  
 THERE ARE NO LEACHING AREAS WITHIN 100' OF THE PROPOSED WELL



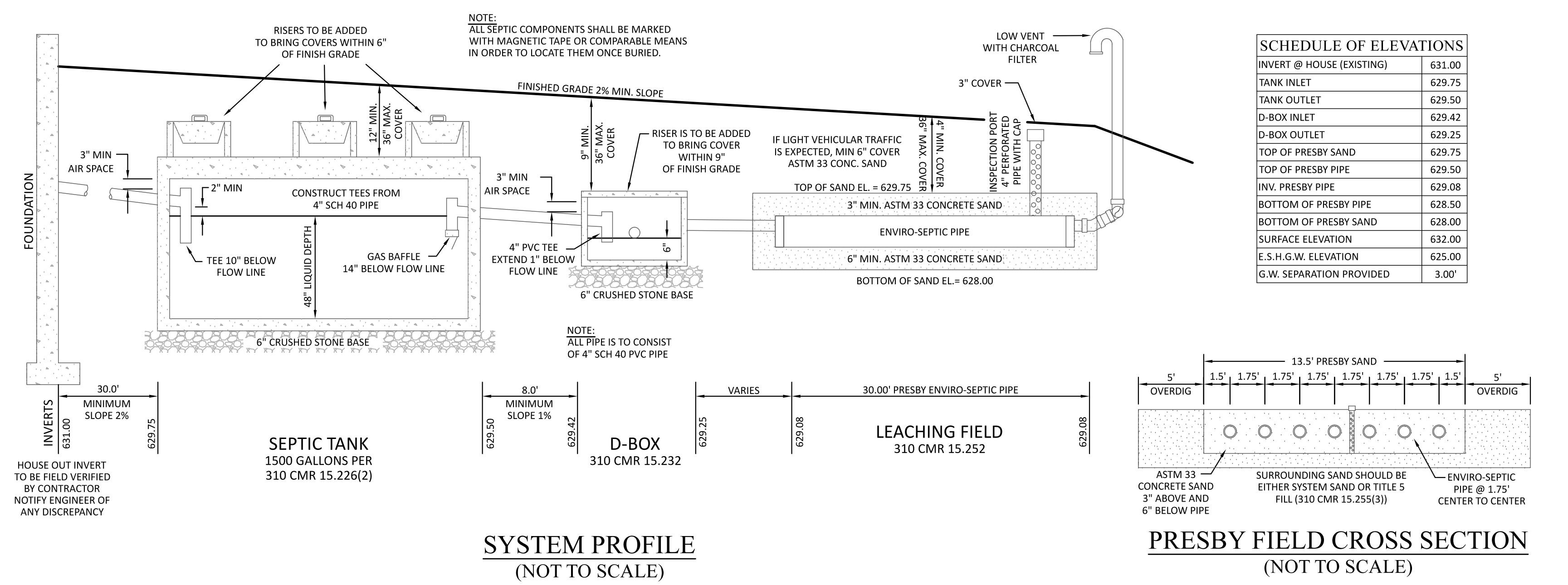
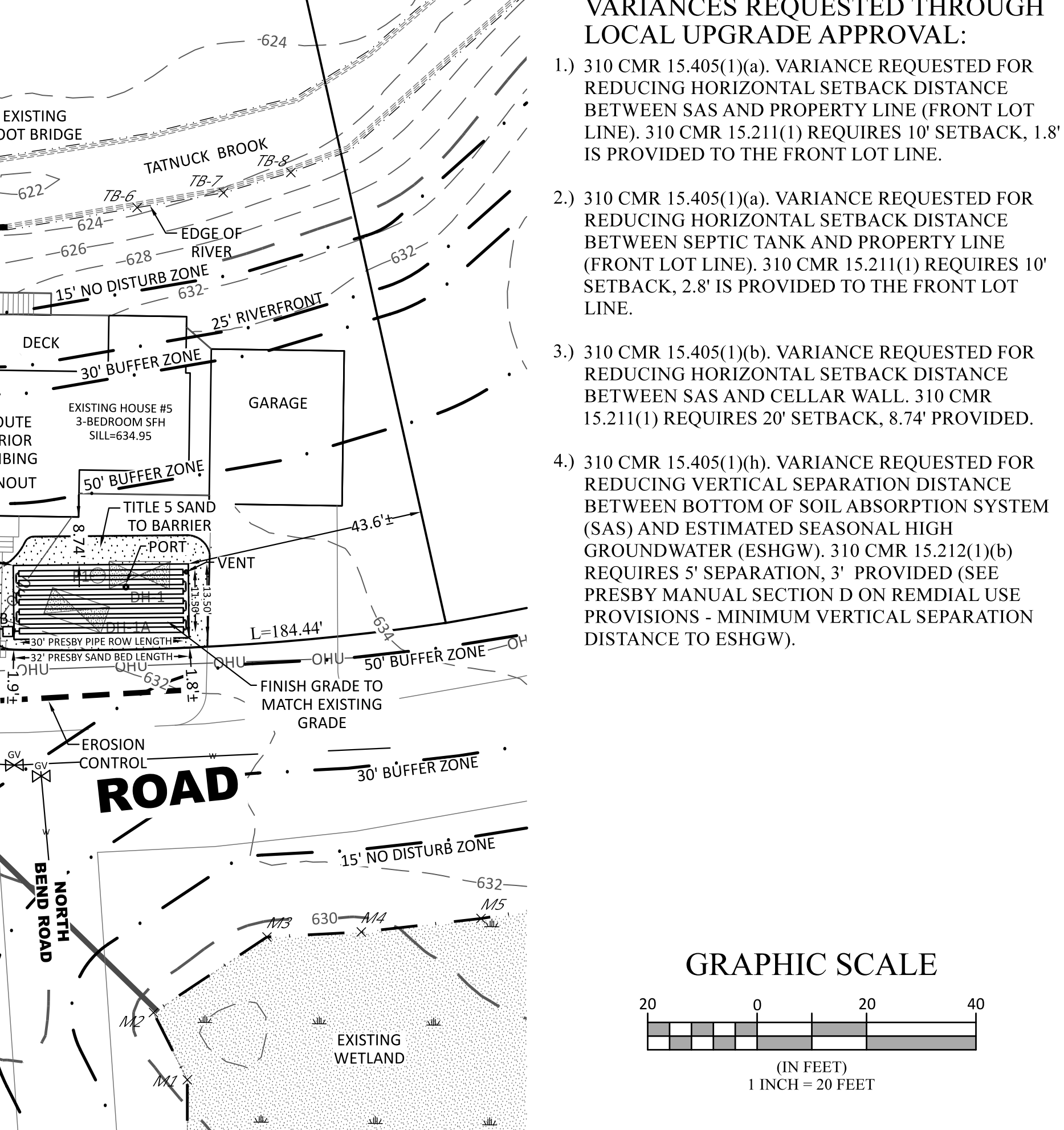
**DAWSON ROAD**

**NORTH BEND ROAD**



**VARIANCES REQUESTED THROUGH LOCAL UPGRADE APPROVAL:**

- 310 CMR 15.405(1)(a). VARIANCE REQUESTED FOR REDUCING HORIZONTAL SETBACK DISTANCE BETWEEN SAS AND PROPERTY LINE (FRONT LOT LINE). 310 CMR 15.211(1) REQUIRES 10' SETBACK, 1.8' IS PROVIDED TO THE FRONT LOT LINE.
- 310 CMR 15.405(1)(a). VARIANCE REQUESTED FOR REDUCING HORIZONTAL SETBACK DISTANCE BETWEEN SEPTIC TANK AND PROPERTY LINE (FRONT LOT LINE). 310 CMR 15.211(1) REQUIRES 10' SETBACK, 2.8' IS PROVIDED TO THE FRONT LOT LINE.
- 310 CMR 15.405(1)(b). VARIANCE REQUESTED FOR REDUCING HORIZONTAL SETBACK DISTANCE BETWEEN SAS AND CELLAR WALL. 310 CMR 15.211(1) REQUIRES 20' SETBACK, 8.74' PROVIDED.
- 310 CMR 15.405(1)(h). VARIANCE REQUESTED FOR REDUCING VERTICAL SEPARATION DISTANCE BETWEEN BOTTOM OF SOIL ABSORPTION SYSTEM (SAS) AND ESTIMATED SEASONAL HIGH GROUNDWATER (ESHGW). 310 CMR 15.212(1)(b) REQUIRES 5' SEPARATION, 3' PROVIDED (SEE PRESBY MANUAL SECTION D ON REMEDIAL USE PROVISIONS - MINIMUM VERTICAL SEPARATION DISTANCE TO ESHGW).



**GENERAL NOTES**

- ALL MODIFICATIONS TO THIS PLAN MUST BE PREAPPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH. ALL MODIFICATIONS MADE WITHOUT APPROVAL FROM THE DESIGN ENGINEER OR THE LOCAL BOARD OF HEALTH ARE THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH AND THE STATE ENVIRONMENTAL CODE TITLE 5.
- THE CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM OR RESERVE AREA IS NOT ALLOWED.
- TO OBTAIN A CERTIFICATE OF COMPLIANCE, THREE INSPECTIONS WILL BE REQUIRED BY THE DESIGN ENGINEER:  
 1) BOTTOM INSPECTION FOLLOWING THE EXCAVATION OF TOPSOIL & SUBSOIL  
 2) FOLLOWING THE INSTALLATION OF THE SYSTEM COMPONENTS PRIOR TO BACKFILL  
 3) FINAL GRADING.
- MACHINERY THAT MAY CRUSH OR DISTURB THE PIPE SHALL NOT BE ALLOWED ON THE DISPOSAL AREA.
- THIS SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.
- TOPSOIL, SUBSOIL, PEAT, FILL, AND OTHER IMPERVIOUS MATERIALS SHALL BE REMOVED FROM ALL AREAS WITHIN THE LEACHING FACILITY AND FOR A DISTANCE OF 5 FEET IN ALL DIRECTIONS THEREFROM.
- WHERE A SEWAGE DISPOSAL SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED AND COMPACTED IN NO GREATER THAN 12 INCH LIFTS OR ALLOWED TO SETTLE FOR A MINIMUM OF ONE YEAR. THE FILL MATERIAL MUST CONFORM WITH THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH AND STATE ENVIRONMENTAL CODE TITLE 5, SECTION 15.255
- TITLE 5 SAND CERTIFICATE MUST BE SUBMITTED TO THE BOARD OF HEALTH AND THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- THE BASE FOR THE SEPTIC TANK, PUMP CHAMBER, AND DIST. BOX MUST BE COMPACTED BY A VIBRATORY TAMPER.
- INTERIOR PLUMBING SHALL BE CONNECTED TO THE PROPOSED SEPTIC SYSTEM WITH THE EXCEPTION OF WATER SOFTENERS AND/OR WATER CONDITIONING SYSTEMS.
- WELLS WITHIN 100' OF THE PROPOSED SEPTIC SYSTEM ARE SHOWN.
- APPLICABLE STATE AND LOCAL PERMITS SHALL BE ACQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK, PUMP CHAMBER, AND D-BOX.
- CONSERVATION APPROVAL MAY BE REQUIRED IF ANY PROPOSED ALTERATION IS LOCATED WITHIN 100' OF A RESOURCE AREA.
- ALL SEPTIC COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
- IT IS RECOMMENDED THAT NEW ENGLAND ENVIRONMENTAL DESIGN, LLC. IS RETAINED TO STAKE OUT THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM IN THE PROPOSED LOCATION AND VERIFY THE ELEVATION OF THE PROPOSED DESIGN.

**SOIL EVALUATION**

SOIL EVALUATOR: JULIAN P. VOTRUBA SE# 2519 - WITNESSED BY: CEDRIC RICHARDSON - DATE PERFORMED: 4/2/2024

DEEP HOLE-1		ELEVATION=632.0	
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)
0-4"	A	LS	10YR 3/4
4-12"	B	LS	10YR 5/6
12-96"	C	SAND / GRAVEL	2.5Y 3/4

DEEP HOLE-1A		ELEVATION=632.0	
DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)
0-4"	A	LS	10YR 3/4
4-12"	B	LS	10YR 5/6
12-96"	C	SAND / GRAVEL	2.5Y 3/4

**DESIGN DATA**

TYPE OF BUILDING: SFH NO. OF BEDROOMS/EMPLOYEES: 3  
 NO GARBAGE GRINDER (DISPOSAL) ALLOWED  
 DESIGN PERCOLATION RATE: 2 MPI LTAR : .74  
 DAILY FLOW: 3x110=330

**REQUIRED LEACHING AREA**  
 DESIGN FLOW / LTAR: 330/0.74=445.9 S.F.  
 TOTAL LEACHING AREA = (L x W)  
 15 x 30 = 450 S.F.  
 TOTAL DESIGN FLOW = LEACHING AREA x LTAR  
 450 x 0.74 = 333 G.P.D.  
 DESIGN FLOW ≥ DAILY FLOW  
 333 ≥ 330

**NOTES:**

- ALL MATERIALS FOR S.D.S. CONSTRUCTION ARE TO BE INSTALLED IN 6" LIFTS.
- CLEAN TITLE 5 SAND IS REQUIRED.
- TITLE 5 SAND CERTIFICATE MUST BE SUBMITTED TO THE BOARD OF HEALTH AND THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- USE CAUTION WHILE BACKFILLING.

**TYPICAL LEGEND**

IRON PIPE	EXIST. CONT. MAJ.	WELL LOCATION
CONCRETE BOUND	EXIST. CONT. MIN.	PERC. TEST
BOUNDARY LINE	PROP. CONT.	DEEP HOLE
ABUTTER LINE	WETLAND LINE	BENCHMARK
EASEMENT LINE	WETLAND BUFFER	DRAINAGE LINE
SETBACK LINE	EROSION CONTROL	DRAIN MANHOLE
STONEWALL	PAVEMENT EXIST.	CATCH BASIN
TREE LINE	PAVEMENT PROP.	

**REVISIONS**

REV	DATE	COMMENT	BY
1	5/1/2024	REVISED PER PHONE CONVERSATION WITH MICHAEL BERBERIAN	ZTM
2	5/8/2024	REVISED PER DPRS STAFF COMMENTS RECEIVED 5/7/24 VIA EMAIL	ZTM
3	5/28/2024	REVISED PER 5/20/24 EMAIL CONCERNING WETLANDS ACROSS STREET	ZTM
4			

**PERCOLATION TESTS**

TEST #	DEPTH	DATE	PERC. RATE
1	40"	4-2-2024	2 MPI
2			

PERC TEST BY: JULIAN P. VOTRUBA  
 WITNESSED BY: CEDRIC RICHARDSON

**LOCUS**

ASSESSOR'S REFERENCE: 54-001-00053  
 W.D.R.D. REFERENCE: BOOK 64617 PAGE 259  
 PLAN REFERENCE: BOOK 20 PAGE 72  
 OWNER OF RECORD: PAUL M. LUKASON and JENNIFER L. SKORINKO, TRUSTEES OF THE LUKASON FAMILY 2019 REVOCABLE TRUST  
 LATITUDE, LONGITUDE: 42.29071, -71.86075

**ZONING REQUIREMENTS**

ZONING DISTRICT	RESIDENTIAL	FRONT SETBACK	40 FEET
MIN. LOT AREA	65,340 S.F.	SIDE SETBACK	20 FEET
MIN. FRONTAGE	150 FEET	REAR SETBACK	40 FEET

THE WORK SHOWN DOES NOT ALTER A FLOOD PLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) COMMUNITY PANEL NUMBER 25027C0611E DATED JULY 4, 2011.

**REPAIR SUBSURFACE SEWAGE DISPOSAL SYSTEM**

PREPARED FOR: PAUL M. LUKASON and JENNIFER L. SKORINKO, TRUSTEES OF THE LUKASON FAMILY 2019 REVOCABLE TRUST  
 5 DAWSON ROAD  
 WORCESTER, MA. 01602

PROPERTY ADDRESS: 5 DAWSON ROAD  
 WORCESTER, MA. 01602

**New England Environmental Design, LLC**

Environmental Consultants Civil Engineering Consultants Land Surveying Consultants  
 P.O. Box 376 Rutland, MA 01543 Ph: (608) 529-7222 need@nemad.com

DATE: 4/9/2024 SCALE: 1"=20' SHEET: 1 OF 1 JOB#: 19137-23