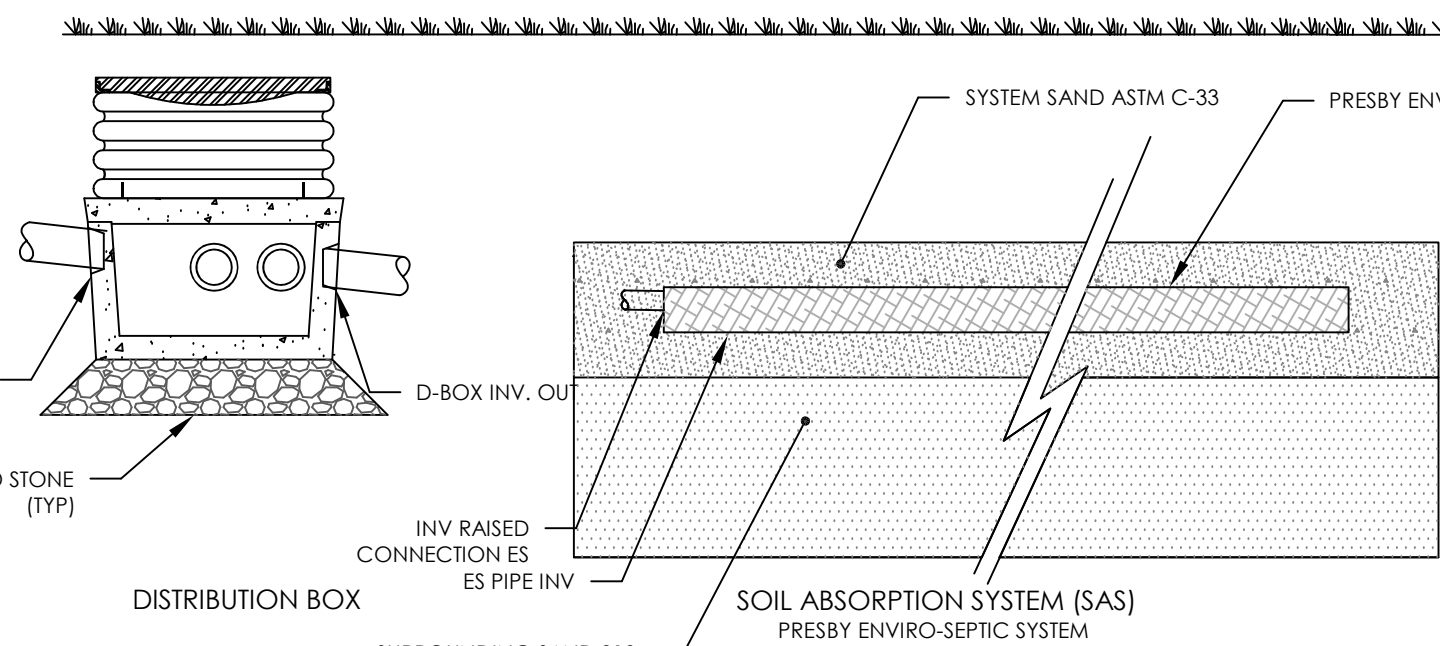
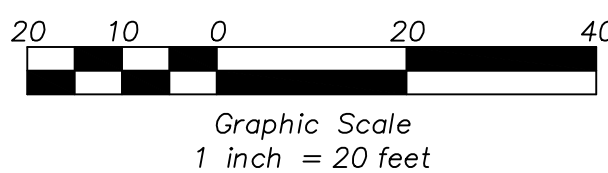


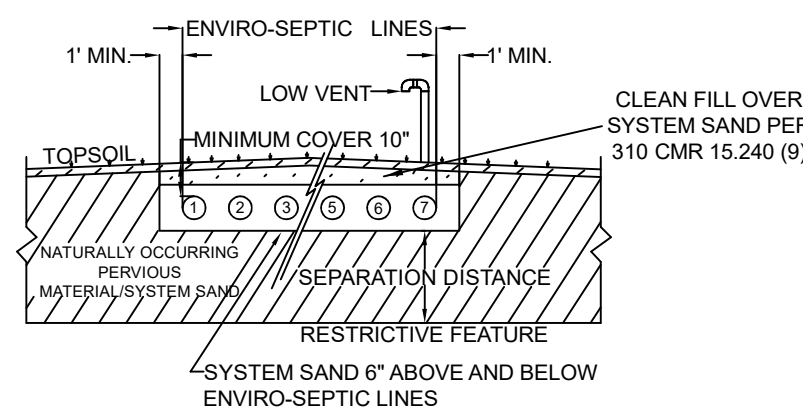


TEMPORARY BENCH MARKS
TBM-1 = 175.02 NAVD
FRONT RIGHT CORNER LOWEST STOP PAINTED WHITE

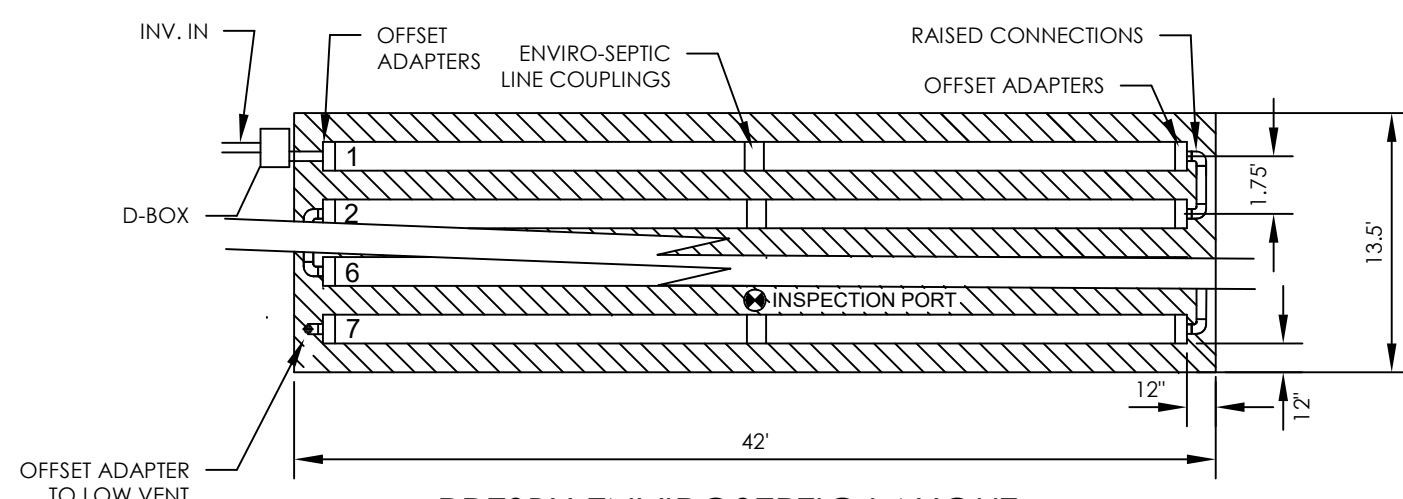
ELEVATION SCHEDULE	
	DESIGN
BLDG SEWER INV FNDT(INV)	173.68
KITCHEN WASTE FNDT(INV)	173.18
BS DROP INV (IN)	173.18
KW DROP INV (IN)	172.58
SEPTIC TANK INV (IN)	171.65
SEPTIC TANK INV (OUT)	171.40
D-BOX INV (IN)	171.20
D-BOX INV (OUT)	171.03
CROWN OF ES PIPE	171.25
INVERT RAISED CONN (IN)	170.83
INVERT RAISED CONN (END)	170.83
INVERT OF ES PIPE	170.25
BOTTOMS SYS SAND/BREAKOUT	169.75
ESHGW EL	<161.04



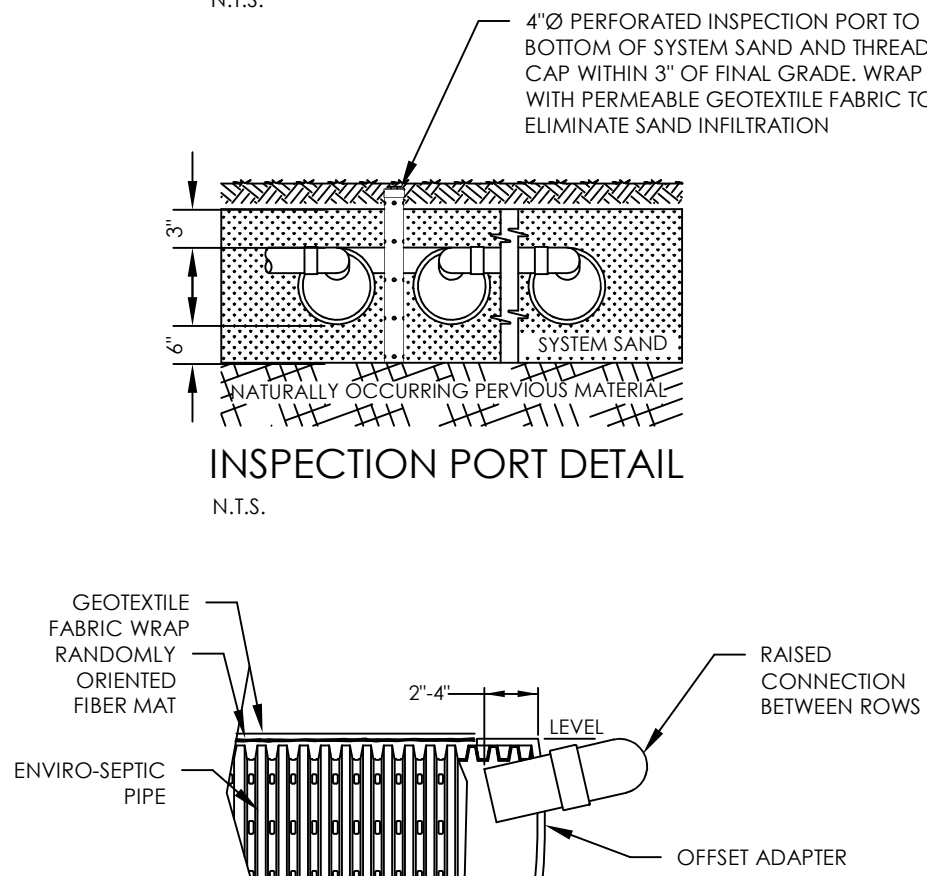
PROFILE



PRESBY ENVIROSEPTIC CROSS SECTION
N.T.S.
SEE LAYOUT



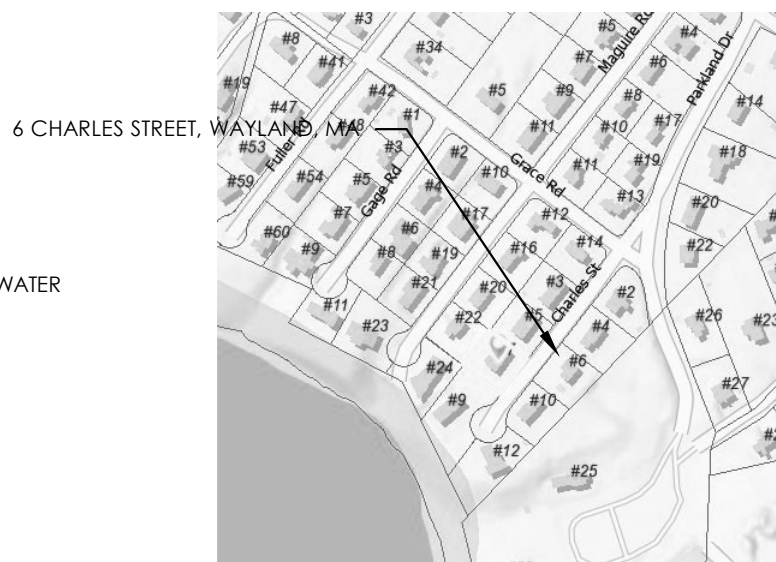
PRESBY ENVIROSEPTIC LAYOUT
N.T.S.



PRESBY RAISED CONNECTION
N.T.S.

99	EXISTING CONTOUR
99	PROPOSED CONTOUR
99	AS-BUILT CONTOUR
E	BURRED ELECTRIC (EX)
E	BURRED ELECTRIC (PROP)
W	DOMESTIC WATER LINE (EX)
W	DOMESTIC WATER LINE (PROP)
G	GAS SERVICE (EX)
G	GAS SERVICE (PROP)
S	SEWIC VENT
FD	ROOF DRAIN (PROP)
FM	FORCE MAIN
SP	SUMP PUMP DISCHARGE (PROP)
D	DRAIN (PROP)
V	VENT (PROP)
---	= SWM CUT
BERM	
STONE WALL	
PROPERTY LINE (APPROX)	
EDGE OF PAVEMENT (EX)	
EDGE OF PAVEMENT (PROP)	
WOOD FENCE	
WIRE FENCE	
LIMIT OF WORK	
IMPERVIOUS BARRIER	
5' OVER EXCAVATION	
EROSION CONTROL/STRAW MATTE	
DRAINAGE SWALE (FLOW DIRECTION)	
PROPOSED SPOOT GRADE	
SPOOT GRADE TO REMAIN	
DEEP TEST HOLE	
CONFIRMATORY TEST HOLE	
PERCOLATION TEST	
TEMPORARY BENCH MARK	
GAS VALVE	
WATER VALVE	

LEGEND



LOCUS
NTS SOURCE: MASSGIS

SEPTIC TANK CAPACITY
COMPARTMENT 1 = 48 HR CAPACITY (200% Fd)
C1 = 880 GAL
C1 SHALL BE 1,000 GALLONS
COMPARTMENT 2 = 24 HR CAPACITY (100% Fd)
C2 = 440 GAL
C2 SHALL BE 500 GALLONS

DTH-4 [EL = 173.46]					
0" - 8"	Ap	10YR3/2	LOAMY SAND	V.FRIABLE	
8" - 78"			SANDY SILT		
78" - 144"	C1	10YR7/1	SANDY SILT	LOOSE	
REDOXIMORPHIC FEATURES WERE NOT OBSERVED					
SEEPING/STANDING WATER NOT OBSERVED.					
ESHWG EL <161.46					
DTH-4 [EL = 174.14]					
0" - 8"	Ap	10YR3/2	FINE SANDY LOAM	V.FRIABLE	
8" - 78"	F		SANDY SILT		
78" - 82"	Ab	10YR3/5	SANDY LOAM		
82" - 96"	B	10YR6/5	FINE SANDY LOAM	LOOSE	
96" - 146"	C1	10YR5/2	SAND	LOOSE	
REDOXIMORPHIC FEATURES WERE NOT OBSERVED					
SEEPING/STANDING WATER NOT OBSERVED.					
ESHWG EL <161.97					

PERCOLATION TEST		
DATE: 16DEC25 TIME: A.M.		
NUMBER:	1	2
LOCATION	DTH-1/2	DTH-3
DEPTH OF PERC	72"-92"	68"-88"
PRE SOAK: START	1010	1030
PRE SOAK: END	CNS	CNS
12"		
9"		
6"		
TIME 9"-6" (MIN)		
PERC RATE (MIN/IN)	<2	<2

RISERS SHALL BE AFFIXED TO ANY SYSTEM COMPONENT WITH A DEPTH GREATER THAN 9", BRINGING ACCESS TO A POINT 6" OR LESS FROM FINAL GRADE ELEVATION.

ACCESS COVERS AT THE SURFACE SHALL BE STEEL FRAME AND COVER.

COVERS SHALL BE OF SUFFICIENT WEIGHT OR OTHERWISE BE SECURED TO PREVENT UNAUTHORIZED OPENING.

RISERS SHALL BE PLASTIC OR CONCRETE.

GRAVITY SEWER

ALL PIPING SHALL BE A MINIMUM OF SCH 40 PVC, STAIN PLUMBING CODS SHALL SUPERSEDE THE REQUIREMENT AS NECESSARY.

BUILDING SEWER SHALL BE SLOPED AT 1/8" PER FOOT FROM TIE-IN POINT TO ST INVERT IN.

UNIMPROVED BUILDING SEWER SHALL TIE INTO SCHED 40 PVC OR CAST IRON.

CHANGES IN DIRECTION AND BENDS IN BUILDING SEWER SHALL BE MADE WITH ELECTRICAL SWEEPS OR SMOOTH RADIUS BENDS

SEPTIC TANK
THE FIRST COMPARTMENT SHALL BE 1500 GALLON MONOLITHIC TWO COMPARTMENT SEPTIC TANK FIRST COMPARTMENT SHALL BE MINIMUM OF 1000 GALLONS; SECOND COMPARTMENT SHALL BE MINIMUM OF 500 GALLONS
TEES SHALL BE IN ACCORDANCE WITH 310CMR15.227(16) - 1" BELOW FLOW LINE FOR 4" OPERATING DEPTH
TANK SHALL BE SHEA M1500C2 OR APPROVED EQUAL
DISTRIBUTION BOX
THE DISTRIBUTION BOX SHALL BE CONCRETE SHALL BE H20 LOADING WITH 2" THICK SIDEWALLS. INVERT ELEVATIONS OF ALL OUTLETS SHALL BE EQUAL AND TWO INCHES BELOW THE INVERT OF THE INLET
OUTLET DISTRIBUTION LINES SHALL BE LEVEL FOR THE FIRST 2' .
THERE SHALL BE A MINIMUM SUMP OF 6" BELOW THE OUTLET INVERT.
DISTRIBUTION BOX ACCESS MANHOLES SHALL NOT BE MORE THAN 9 INCHES BUT NOT LESS THAN 18 INCHES BELOW THE INVERT
ACCESS COVER SHALL BE WITHIN 6' OF FINAL GRADE WITH AN 18" MINIMUM COVER
SOIL ABSORPTION SYSTEM
SURROUNDING SAND: ANY LEVELING COARSE SAND USED FOR GRADING OF THE INVERTO-SEPTIC SYSTEM SHALL COMPLY WITH 310CMR15.255.
SYSTEM SAND SHALL BE AS SPECIFIED IN THE MASSACHUSETTS PRESBY DESIGN AND INSTALLATION MANUAL AS FOLLOWS. ASTM C-33 CONCRETE SAND.
PRESBY LATERALS SHALL BE INVERTO-SEPTIC PIPE INSTALLED IN ACCORDANCE WITH THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL. THERE SHALL BE THREE INCHES OF SAND OVER THE TOP OF THE 12 INCHES BELOW THE PIPE, 12 INCHES AT THE OUTER EDGES, AND 12 INCHES ON EACH END.
THE MINIMUM COVER OVER THE ES3 PRESBY SYSTEM SHALL BE SEVEN INCHES OF SYSTEM SAND AND FOUR INCHES OF LOAM FREE OF STONES AND BOULDERS GREATER THAN ONE INCH. FINAL SYSTEM SAND SHALL BE AS SPECIFIED IN THE LAYOUT PLAN AND SHALL BE A MINIMUM OF 2% GRADE AWAY FROM THE SYSTEM.
THE SOIL ABSORPTION SYSTEM SHALL HAVE ONE INSPECTION PORT IN ACCORDANCE WITH THE DETAIL AND SHALL BE ACCESSIBLE TO WITHIN THREE INCHES OF FINISH GRADE.
THE SYSTEM SHALL BE VENTED AS SHOWN ON THESE PLANS.
THE SYSTEM SHALL BE INSTALLED BY A CONTRACTOR WHO HAS BEEN LICENSED OR CERTIFIED BY PRESBY ENVIRONMENTAL FOR THE INVERTO-SEPTIC SOIL ABSORPTION SYSTEM.

CERTIFICATION:
BY MY SIGNATURE AND STAMP BELOW, I CERTIFY THE FOLLOWING

1. THE SYSTEM DESIGN CONFORMS WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS WITH GENERAL USE CERTIFICATION AND/OR APPROVED FOR REMEDIAL USE DATED 12/15/2000. THE PRESBY ESOIL ABSORPTION SYSTEMS ARE CERTIFIED TO THE STANDARD 21CLM000073-AP PER MARCH 15, 2002, COMPANY DESIGN GUIDANCE AND 310CMR15.07
2. THAT ON 13NOV2003 I HAVE PASSED THE SOIL EVALUATOR EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS WAS PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE DESCRIBED IN 310 CMR 15.07
3. THAT I HAVE BEEN CERTIFIED AND SUFFICIENTLY TRAINED BY PRESBY ENVIROSEPTIC TO DESIGN THE PRESBY ESOIL ABSORPTION SYSTEM.

Subsurface Sewage Disposal System Design for 6 Charles Street Wayland, Massachusetts	
 DOUCETTE ENGINEERING, INC. 152 Whitcomb Avenue, Littleton, Massachusetts 01460 978.621.2138 ■ doucette.engineering@comcast.net www.doucetteengineering.com	Date: 29DEC25
	Scale: as noted
	Sheet 1 of 1
	Drawn by: TPD
Revisions:	Drawing number: 2025-142
1. Gen. note clarification, ST location, CTH, 22JAN26	
	