

LOW AND HIGH VENTS ARE REQUIRED OF ALL SYSTEMS TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE ENVIRO-SEPTIC SYSTEM. THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10' ABOVE THE OPENING OF THE LOW VENT.

VENTING DETAIL
(CROSS SECTION - NOT TO SCALE)

ROOF VENT SHALL ACT AS HIGH VENT

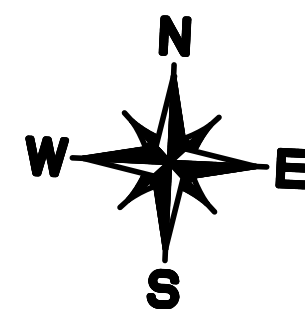
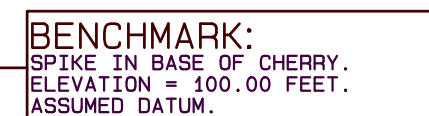
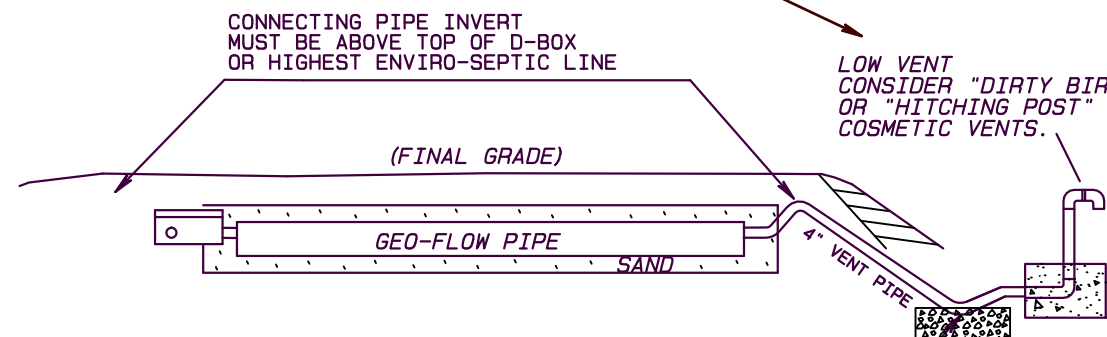
— HIGH VENT IS REQ
THAN THE LOW VEN

CONNECTING PIPE INVERT
MUST BE ABOVE TOP OF D-BOX

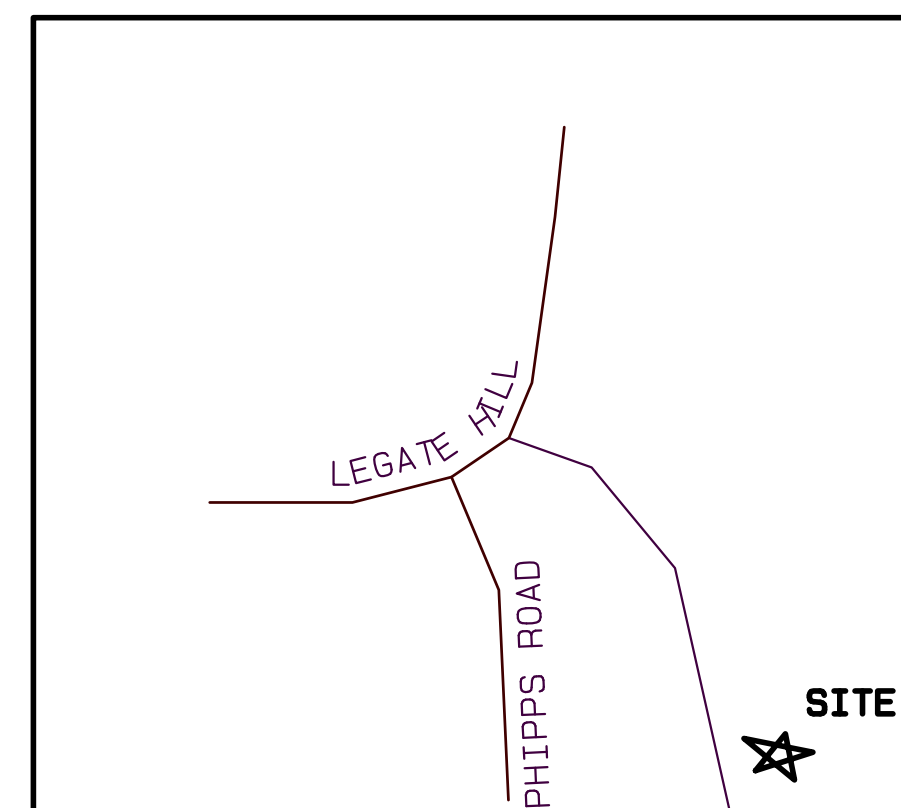
LOW VENT
CONSIDER "DIRTY BIRD
OR "HITCHING POST"
COSMETIC VENTS.

DRILL HOLES AT LOW POINT
TO DRAIN CONDENSATION

PLACE 6" CRUSHED STONE
BASE BENEATH LOW POINT



ASSESSORS MAP#12
PARCEL #31
DEED BOOK 8453
PAGE 298



SITE LOCUS

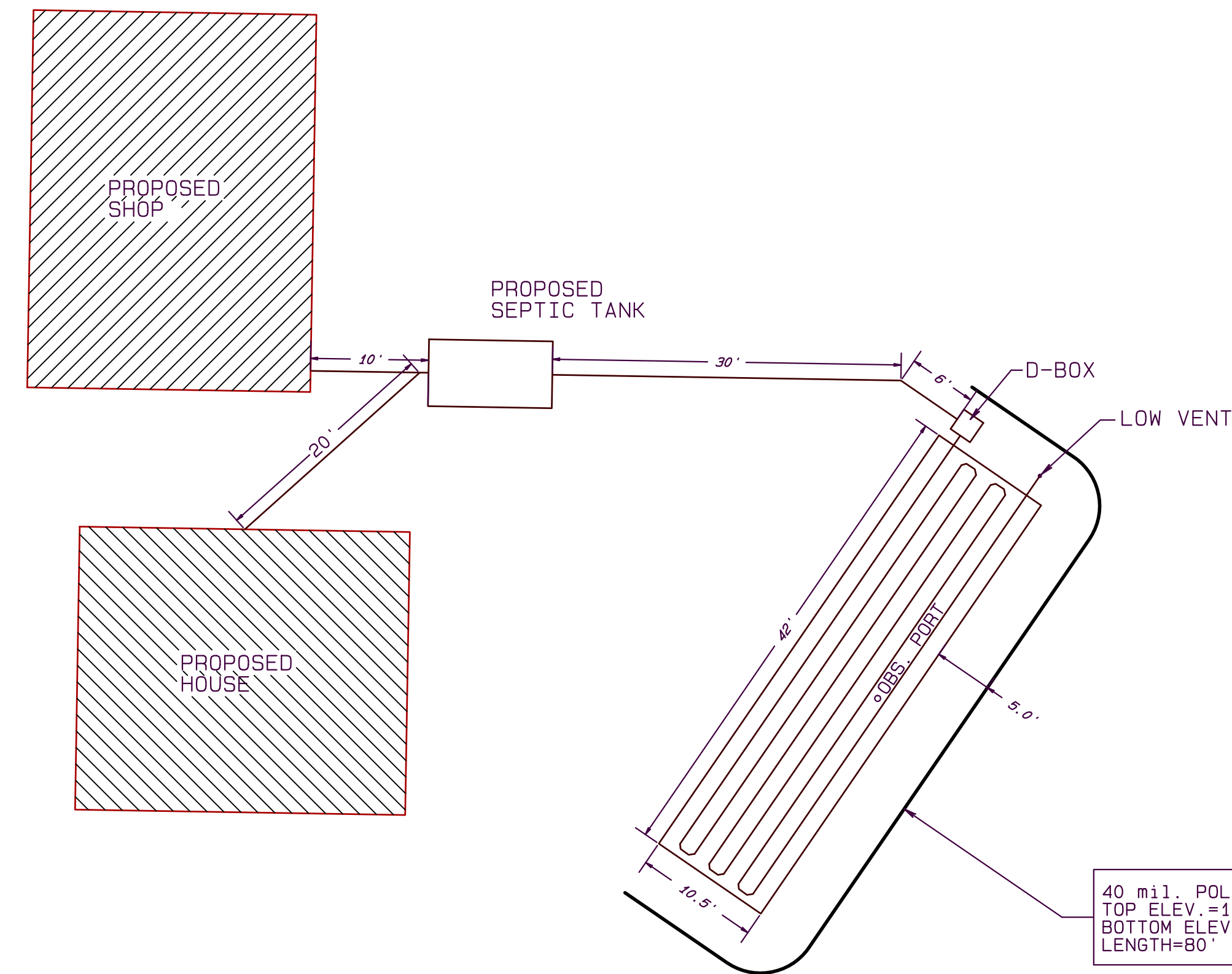
SITE PLAN

GRAPHIC SCALE

 $1'' = 20'$

Category	Number of people
Do not use the Internet	40

IT IS THE PROPERTY OWNERS
RESPONSIBILITY TO CONTACT
THE CHARLEMONT CONSERVATION
COMMISSION FOR A DETERMINATION
PRIOR TO CONSTRUCTION!

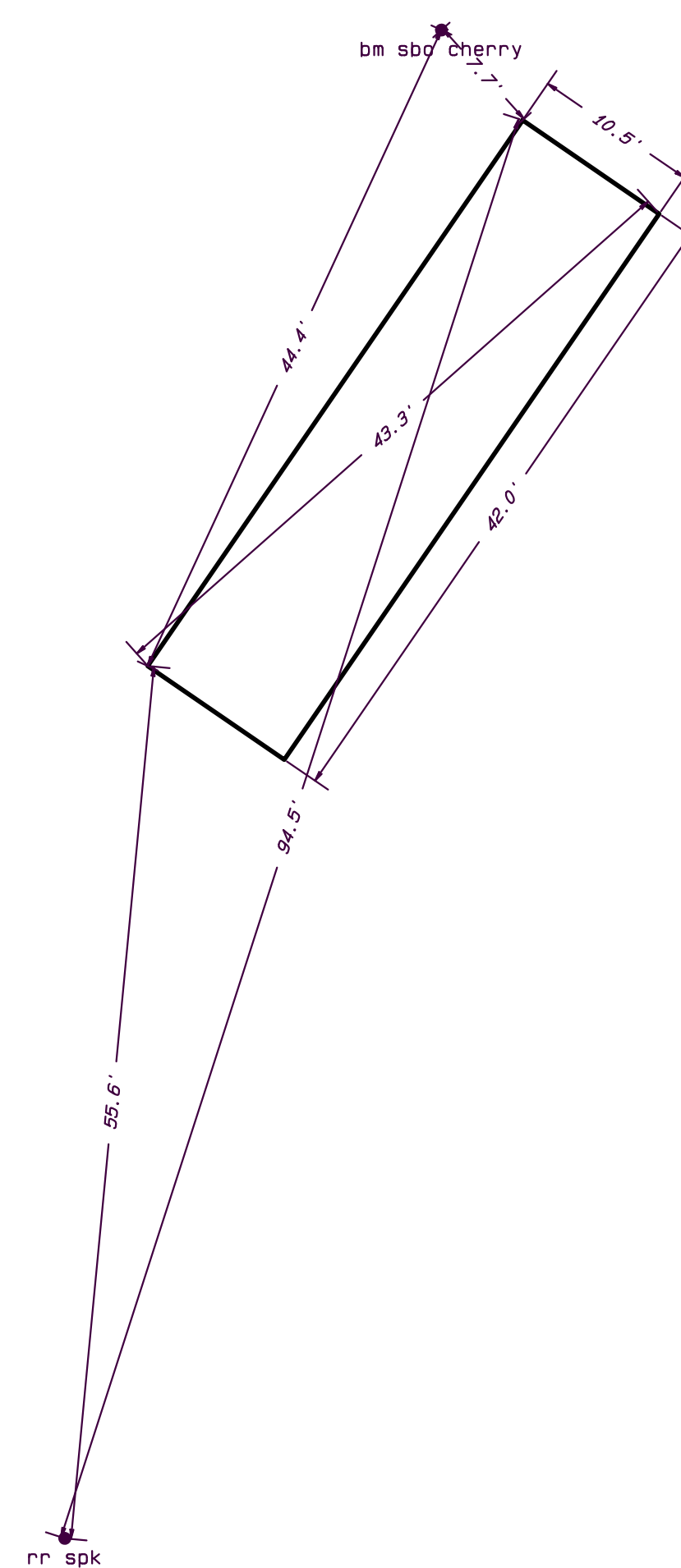


40 mil. POLYETHYLENE BARRIER
TOP ELEV.=101.24
BOTTOM ELEV.=97.24
LENGTH=80'

SYSTEM DIMENSIONS

GRAPHIC SCALE 1"=10'

1	2	3	4
5	6	7	8

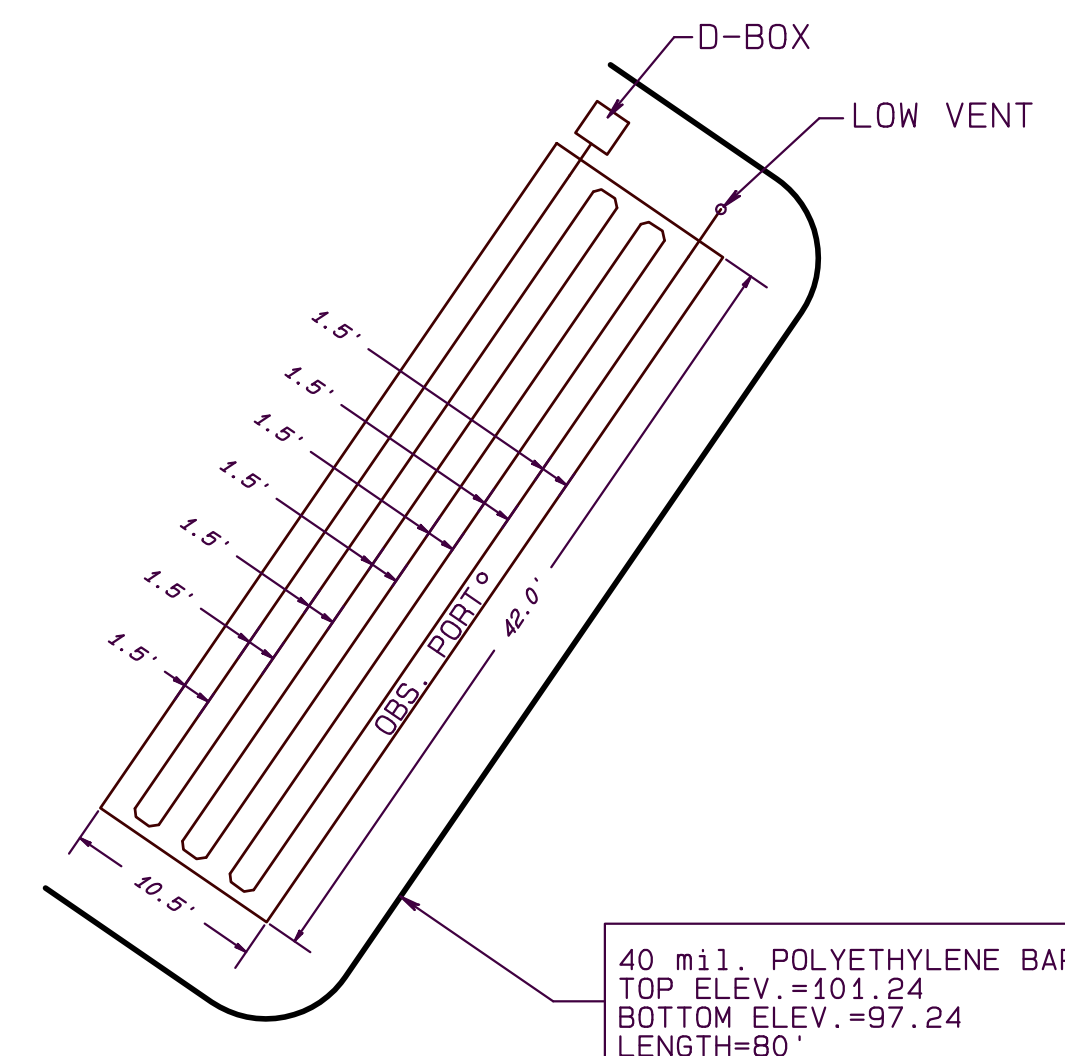
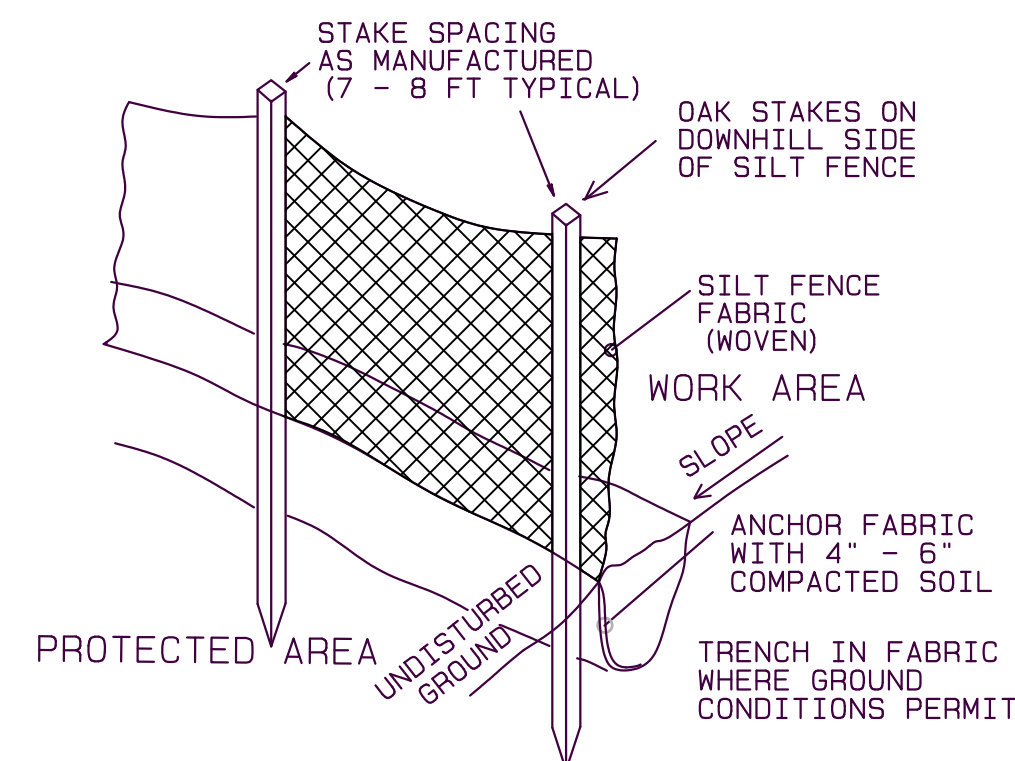


PRESBY FIELD LAYOUT

SCALE: 1"=10'

SEDIMENT BARRIER

TYPICAL SILT FENCE INSTALLATION



40 mil. POLYETHYLENE BARRIER
TOP ELEV.=101.24
BOTTOM ELEV.=97.24
LENGTH=80'

PRESBY FIELD DIMENSIONS
1" = 10'

$$1'' = 10'$$

SHEET NO. 1 OF 2

SCALE AS SHOWN
DRN. BY S. K.
CHECKED S. K.



APPROVED

REV.	DATE	BY	DESCRIPTION	APPR.
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TITLE: SUBSURFACE SEWAGE DISPOSAL PLAN
IN
Charlemont, MASS.

FOR: Geeg Wiles
31 Mountain View Drive

DATE: JULY 15, 2025	JOB NO. 2025-020
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**S.K. Kimberley
Engineering**

309 Thompson Road, Colrain, MA 01340

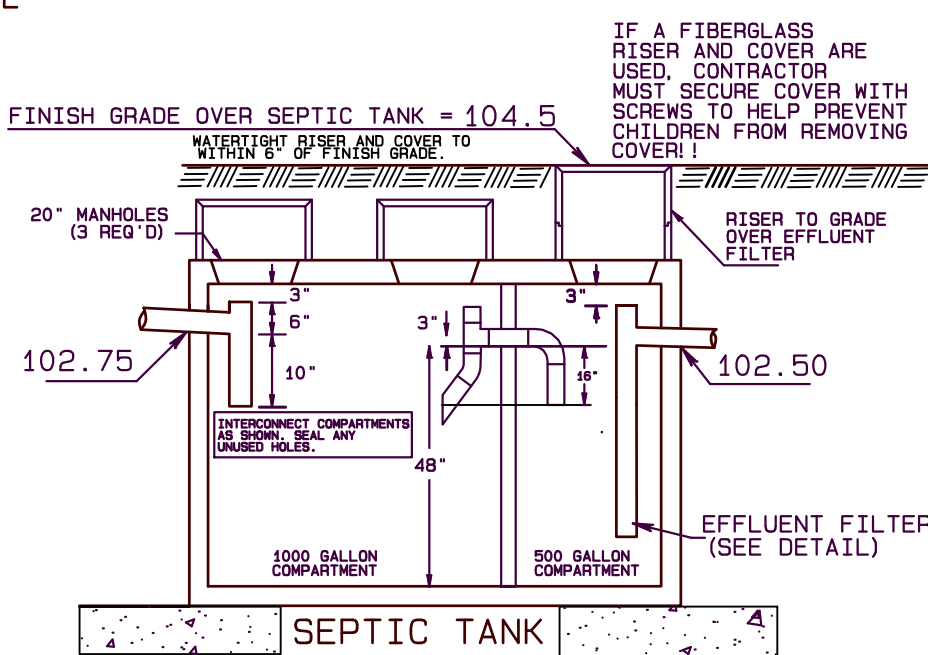
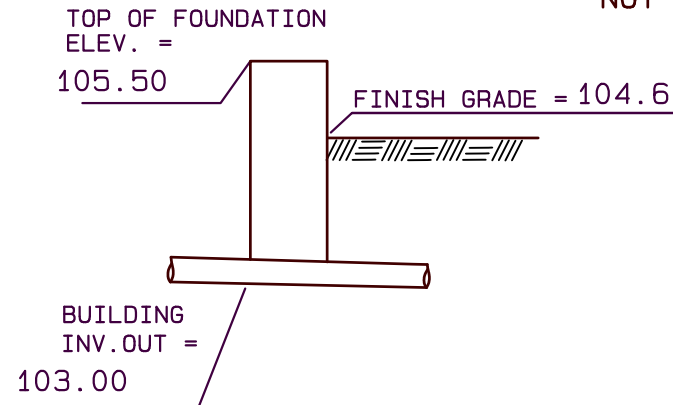
phone: (413) 624-9821

fax: (413) 624-9621

email: shawnkimberley@hotmail.com

SANITARY SYSTEM PROFILE

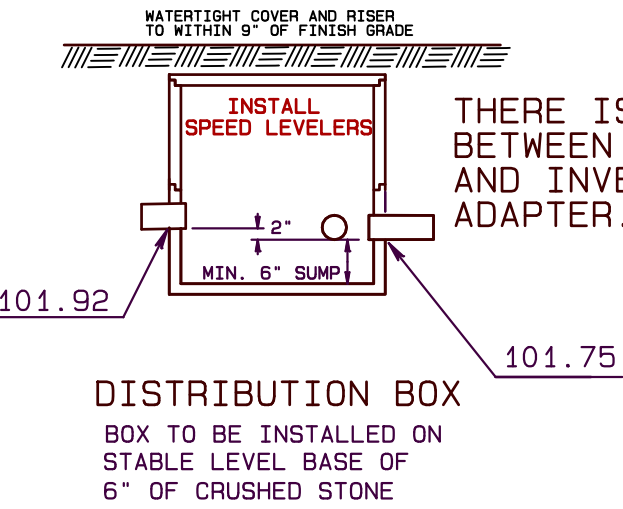
NOT TO SCALE



THE TOWN OF CHARLEMONT REQUIRES THAT THE SEPTIC TANK BE MONOLITHIC OR IF A TWO PIECE TANK IS USED THAT A VACUUM TEST CERTIFICATE BE PROVIDED TO THE BOH AGENT AT THE TIME OF FINAL INSPECTION!!

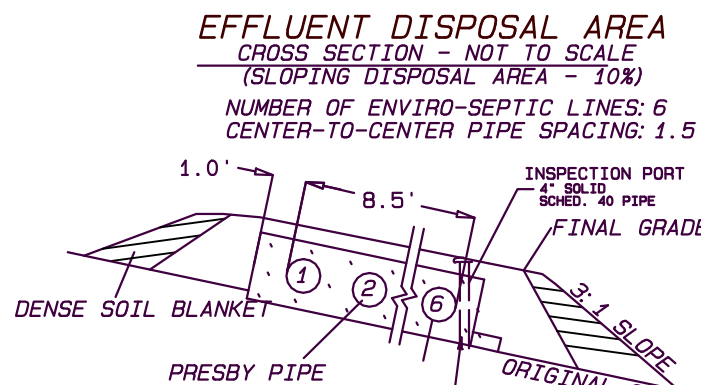
ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. PER 15.221: (12)

- INSULATE D-BOX WITH 2" STYROFOAM

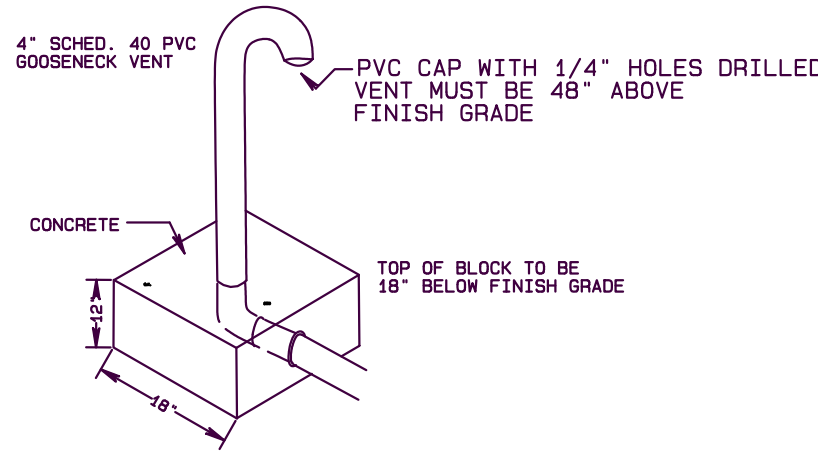


THERE IS A 2" DROP BETWEEN D-BOX OUT AND INVERT OFFSET ADAPTER. (LINE 1)

ENVIRO-SEPTIC FIELD ELEVATIONS						
	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6
EXISTING GRADE	98.50	98.34	98.19	98.04	97.89	97.74
E.S.H.W.T.	96.50	96.34	96.19	96.04	95.89	95.74
BOTTOM SYSTEM SAND	100.50	100.34	100.19	100.04	99.89	99.74
INVERT ENVIRO-SEPTIC PIPE	101.00	100.84	100.69	100.54	100.39	100.24
INV. OFFSET ADAPTER	101.58	101.42	101.27	101.12	100.97	100.82



GROUND WATER ELEV. ASSUMED AT 24" BELOW GRADE BASED ON THE ESHWT. IN TP #1

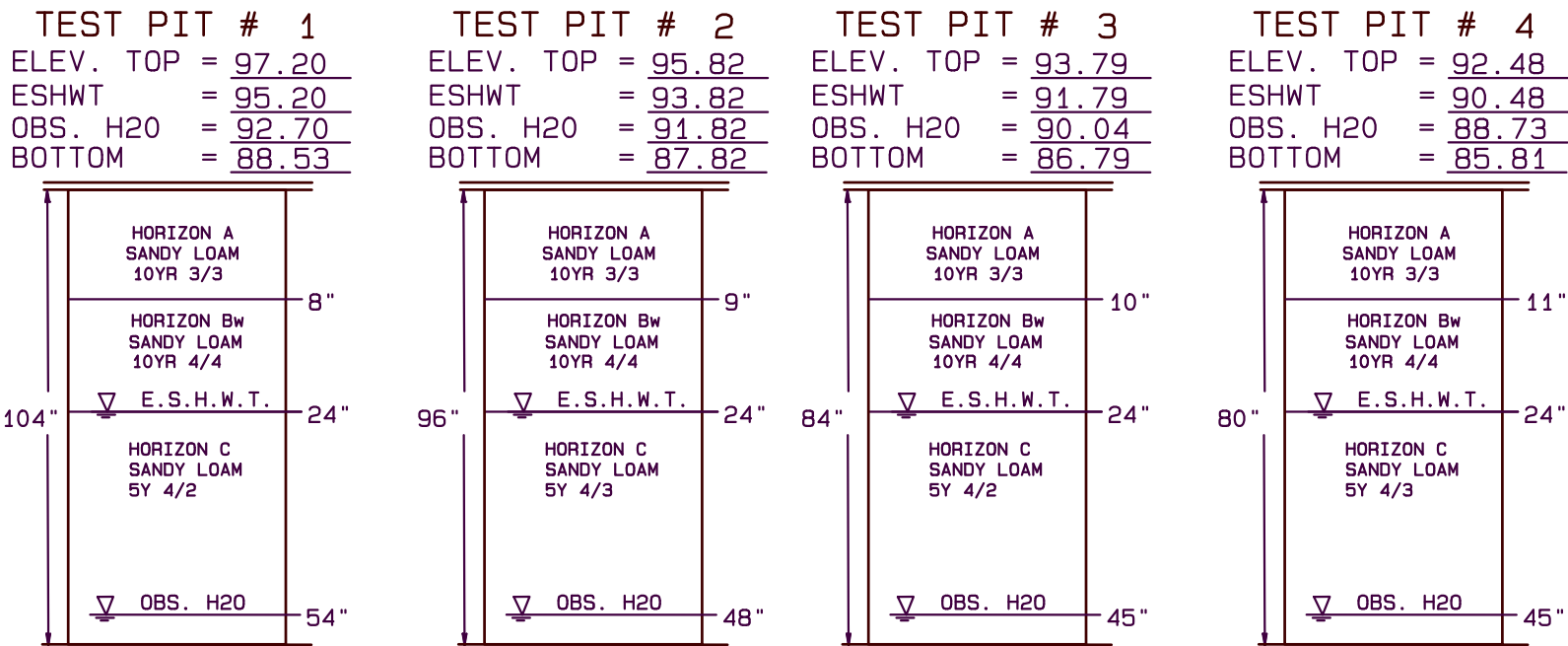


VENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION J (PAGE 36) OF THE ENVIRO-SEPTIC MASSACHUSETTS DESIGN AND INSTALLATION MANUAL.
LOW AND HIGH VENTS ARE REQUIRED OF ALL SYSTEMS TO ENSURE THAT AIR IS DRAWN COMPLETELY THROUGH THE ENTIRE ENVIRO-SEPTIC SYSTEM. THE OPENING OF THE HIGH VENT MUST BE AT LEAST 10' ABOVE THE OPENING OF THE LOW VENT.
ROOF VENT SHALL ACT AS HIGH VENT

TEST PIT DATA

BOARD OF HEALTH WITNESS: K.SCHELLENBERG
DATE: JUNE 6, 2025
SOIL EVALUATOR: SHAWN KIMBERLEY

PERC TEST ID	PERC RATE (MIN/IN)	PERC DEPTH (IN)
1	15	48
2	18	45



NOTES:

- THIS PLAN IS FOR THE CONSTRUCTION OF A NEW SEPTIC SYSTEM.
- TITLE 5 REQUIRES OBSERVATION OF THE INSTALLED SYSTEM BY THE DESIGN ENGINEER AND A BOARD OF HEALTH MEMBER OR AGENT FOR THE BOARD OF HEALTH. THE SYSTEM MUST NOT BE BACKFILLED PRIOR TO OUR OBSERVATION. CONTACT OUR OFFICE AND THE BOARD OF HEALTH TWO BUSINESS DAYS BEFORE REQUESTED DATE FOR OBSERVATION.
- ALL DISTURBED AREAS SHOULD BE LOAMED, RAKED, FERTILIZED, SEEDED AND MULCHED AT THE COMPLETION OF CONSTRUCTION.
- REMOVE FILL, TOPSOIL & SUBSOIL LAYER BENEATH THE LEACH FIELD AND TO 5' ON ALL SIDES OF THE FIELD. REPLACE WITH MATERIAL MEETING THE SPECIFICATIONS OF 310 15.255(3). (TITLE 5 310 CMR 15.255(5).)

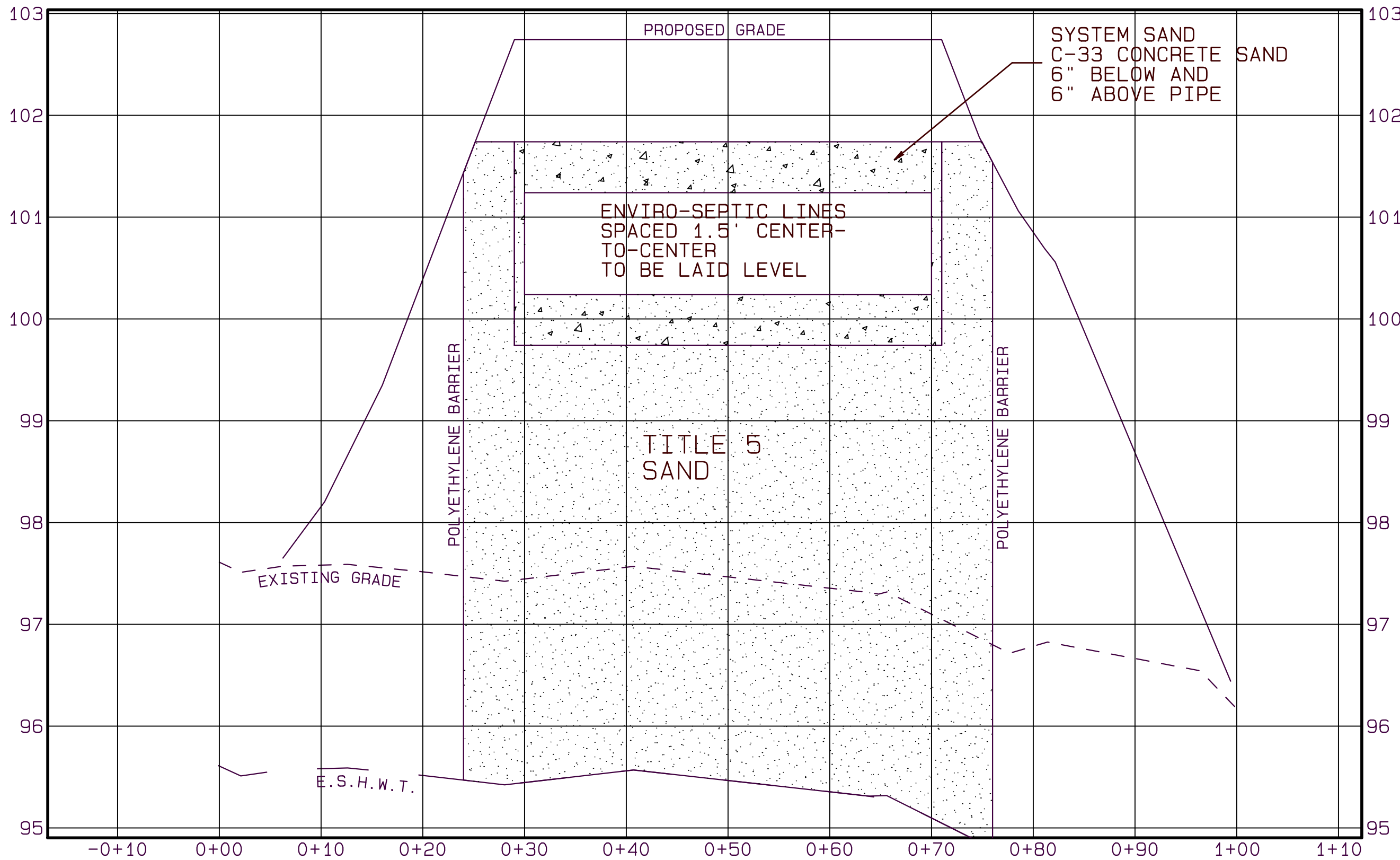
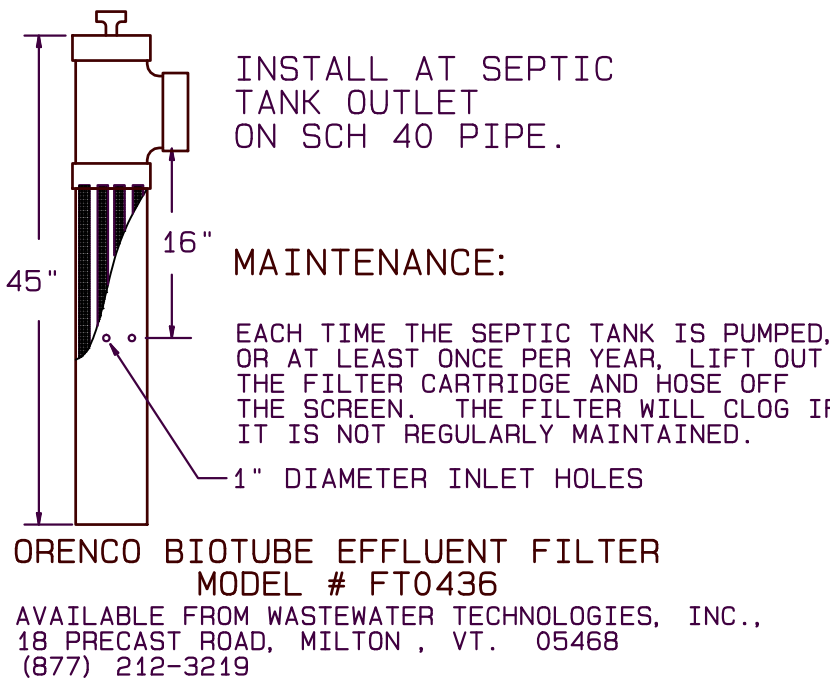
PROPERTY LINE REFERENCE:
PROPERTY LINES AS SHOWN ARE APPROXIMATE AND SHOULD NOT BE REPRESENTED AS BEING ACCURATE.

CONTRACTOR NOTES:

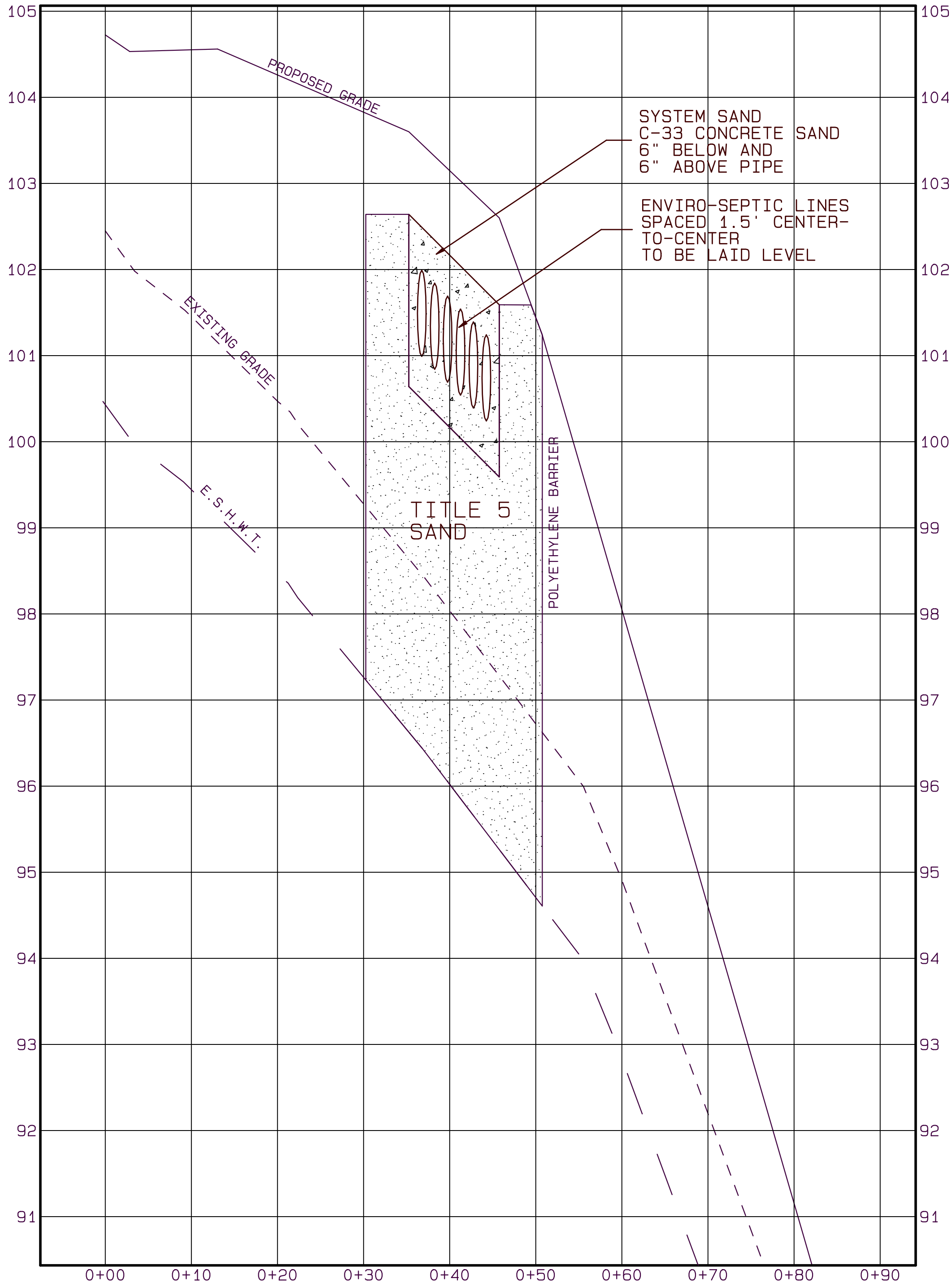
AFTER YOU HAVE LAYED OUT THE LEACH AREA & PRIOR TO STARTING CONSTRUCTION PLEASE CALL AND ESTIMATE WHEN YOU WILL BE READY FOR BOTTOM & FINAL INSPECTION. THIS WILL HELP ME SCHEDULE MY WORK LOAD AND LIMIT THE TIME YOU ARE WAITING FOR ME. THIS IS ALSO THE TIME TO RESOLVE ANY QUESTIONS OR CONCERNS. IF THE BENCHMARK OR TAPE TIE REFERENCE POINTS HAVE BEEN DESTROYED, OR CAN NOT BE FOUND I WILL COME OUT AND RE-ESTABLISH CONTROL OR STAKEOUT THE LEACH AREA.

PROPER SEPTIC SYSTEM USE:

- DO NOT POUR GREASE, OILS, OR CHEMICALS IN DRAINS
- DO NOT WASH PAINT BRUSHES INTO DRAINS
- DO NOT USE OR INSTALL GARBAGE DISPOSAL
- USE LIQUID DETERGENTS LABELED "SEPTIC SYSTEM SAFE" OR "BIODEGRADABLE"
- PUMP TANK EVERY 3 YEARS OR AS NEEDED



CROSS SECTION B-B
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 1'



CROSS SECTION A-A
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 1'

DESIGN DATA

DESIGN BASED ON SINGLE FAMILY RESIDENCE
DESIGN FLOW 110 GALLON PER DAY PER BEDROOM (3)
TOTAL DESIGN FLOW 330 GALLON PER DAY.
SEPTIC TANK
330 GALLONS X 200% = 660 GALLONS DESIGN CAPACITY.
USE NEW 1500 GALLON SEPTIC TANK.

ENVIRO-SEPTIC PIPE LEACHING SYSTEM (REFER TO DESIGN MANUAL)

FROM SECTION N (PAGE 41) OF THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL: TO OBTAIN THE REQUIRED LINEAR FOOTAGE REFER TO TABLE A. WITH 3 BEDROOMS AND A 8 MIN/IN PERC RATE, A MINIMUM OF 210 LINEAR FEET OF ENVIRO-SEPTIC PIPE IS REQUIRED. WE HAVE DESIGNED 6 LINES AT 40' IN LENGTH FOR A TOTAL OF 240 LINEAR FEET OF ENVIRO-SEPTIC PIPE.

FROM SECTION N (PAGE 42) OF THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL: TO OBTAIN THE REQUIRED CENTER-TO-CENTER SPACING REFER TO TABLE B. WITH THE 8 MIN/IN PERC RATE AND A SYSTEM SLOPE OF 15%, A MINIMUM CENTER-TO-CENTER SPACING OF 1.5' IS REQUIRED. WE HAVE DESIGNED FOR A CENTER-TO-CENTER SPACING OF 1.5'.

FROM SECTION N (PAGE 44) OF THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL TO OBTAIN THE REQUIRED MINIMUM SAND BED AREA REFER TO TABLE D WITH 3 BEDROOMS, A 8 MIN/IN PERC RATE, AND A CLASS I SOIL, A MINIMUM 400 SQ. FT. SAND BED IS REQUIRED. WE HAVE DESIGNED A 42' x 10.5' SAND BED FOR A TOTAL OF 441 SQ. FT.

ENVIRO-SEPTIC PIPE LEACHING SYSTEM HAS BEEN APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SEE CERTIFICATION FOR REMEDIAL USE DATED SEPTEMBER 26, 2013
TRANSMITTAL NUMBER #21-CLM 000073-APP (MODIFIED OCTOBER 30, 2019)
(MODIFIED MARCH 15, 2022)

IN ACCORDANCE WITH D.E.P. STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS REVISED MARCH 5, 2018.

SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT Presby Environmental, Inc., 143 Airport Road, Whitefield, NH 03598.

GENERAL NOTES

- FROM HOUSE OUT TO SEPTIC TANK USE 4" SCHEDULE 40 PVC MINIMUM GRADE: 1/4 INCH PER FOOT (2%)
- FROM SEPTIC TANK TO D-BOX USE 4" SCHED. 40 PVC PIPE
- 12" ENVIRO-SEPTIC LEACHING PIPE TO BE USED IN LEACHING AREA. TO BE LAID LEVEL
- 4" SDR 35 RASIED CONNECTIONS BETWEEN ENVIRO-SEPTIC PIPES (DETAIL)
- ALL PIPES IN THE DISPOSAL SYSTEM SHALL HAVE WATERTIGHT JOINTS
- CHARLEMONT BOARD OF HEALTH MUST BE NOTIFIED WHEN SYSTEM IS NEARLY COMPLETE AND PRIOR TO BACKFILLING.
- ELEVATIONS BASED ON ASSUMED DATUM
- UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH TITLE 5 OF THE STATE SANITARY CODE AND ANY APPLICABLE LOCAL RULES.
- ANY CHANGE TO THIS PLAN MUST BE APPROVED BY THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
- THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE GRINDER.

LEGEND

- 100 --- EXISTING CONTOURS
- 100 --- PROPOSED CONTOURS
- 4" SCHEDULE 40 PVC PIPE
- 4" SDR 35 PVC PIPE
- 12" ENVIRO-SEPTIC PIPE
- PROPERTY LINE
- STONEWALL

SHEET NO. 2 OF 2.

SCALE AS SHOWN

DRN. BY S.K.

CHECKED S.K.

APPROVED:

SHAWN K. KIMBERLEY
NO. 45053
CIVIL
PROFESSIONAL ENGINEER

REV. DATE BY DESCRIPTION APPR.

TITLE: SUBSURFACE SEWAGE DISPOSAL PLAN IN Charlemont, MASS.

FOR: Geeg Wiles
31 Mountain View Drive

DATE: JULY 15, 2025 JOB NO. 2025-020

S.K. Kimberley Engineering

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phone: (413) 824-9821 fax: (413) 824-9821 email: shawnkimberley@hotmail.com