Locus Plan

SCALE: 1:25000

Plan of Land

SCALE: 1"=20'
MAP NO.: 8
BLOCK NO.: B
PARCEL NO.: 14
AREA: 12,842± S.F.

MAP 8 BLOCK B PARCEL 15

MAP 8 BLOCK B PARCEL 13

ALL SOILS EXTENDING OUT 5'-0" AROUND THE LEACHING FIELD TO BE EXCAVATED BETWEEN ELEVATIONS 77.3 AND 74.4 AND REPLACED WITH CLEAN, COARSE, WET (7% MOISTURE CONTENT) SAND, COMPACT SAND FILL IN 12" LIFTS. SAND SHALL PERCOLATE AT A RATE OF 2 MPI BEFORE AND AFTER PLACEMENT. SEE CONSTRUCTION IN FILL NOTE.

LEACHING FIELD

INSPECTION PORT

"D" BOX

GEOGRID (SEE NOTE D)

VENT

EXISTING "D" BOX AND LEACHING TRENCHES (SCALED FROM TITLE V INSPECTION FORM) (SEE NOTE E)

EXISTING PAVED DRIVEWAY

PORCH/ SECOND FLOOR DECK

EXISTING THREE BEDROOM HOUSE TO BE REMOVED

PROPOSED WATER LINE

WATER SHUT-OFF

EXISTING WATER LINE TO BE DISCONNECTED IN ACCORDANCE WITH TITLE 5 AND TISBURY BOARD OF HEALTH REGULATIONS AND RELOCATED AS SHOWN

EXISTING SEPTIC TANK (SEE NOTE E)

EXISTING PARKING

EXISTING ONE BEDROOM GUEST HOUSE (CRAWLSPACE FOUNDATION) (PLUMBING MAY BE REQUIRED)

INV. "B"

WATER SHUT-OFF (SCALED FROM SEPTIC PLAN ON BOARD OF HEATH RECORD)

DECK

CLEANOUT

INV. "A"

FENCE (TYP.)

PROPOSED SEPTIC TANK

EXISTING SEPTIC TANK AND LEACHING PIT (SCALED FROM TITLE V INSPECTION FORM) (SEE NOTE E)

RESERVE AREA

PROPOSED FOUR BEDROOM HOUSE

TH1

BULKHEAD

TH2

APPROXIMATE LOCATION OF WATER LINE, LOCATION TO BE VERIFIED BY SEWAGE DISPOSAL SYSTEM INSTALLER.

UTILITY POLE

Look Street

Williams Street

RETAINING WALL (TYP.)

BENCHMARK:
TOP OF NAIL IN TREE
EL.= 80.00

WATER SHUT-OFFS

DATUM: ALL ELEVATIONS ARE RELATIVE TO AN ASSUMED DATUM OF 80.00 SET ON TOP OF NAIL IN TREE. SEE PLAN FOR LOCATION.

Legend

—100—	EXISTING CONTOUR
100+0	EXISTING SPOT ELEVATION
100	PROPOSED CONTOUR
TH1	PERCOLATION TEST
X	SEWAGE LINE
—W—W—	WATER LINE
	APPROXIMATE PROPERTY LINE
—O.W.—U.E.—	OVERHEAD WIRE OR UNDERGROUND ELECTRIC

SOILS LOG

TEST HOLE #1 DATE: 7/26/2022 ELEV. = 78.1

DEPTH	HORIZON	TEXTURE
00 - 16"	A	SANDY LOAM
16 - 36"	B	SANDY LOAM
36 - 61"	C1	SANDY LOAM
61 - 130"	C2	LOAMY SAND

TEST HOLE #2 DATE: 7/26/2022 ELEV. = 79.0

DEPTH	HORIZON	TEXTURE
00 - 16"	A	SANDY LOAM
16 - 36"	B	SANDY LOAM
36 - 61"	C1	SANDY LOAM
61 - 130"	C2	LOAMY SAND

Notes

GENERAL NOTES:

1. THIS PLAN IS TO BE USED ONLY FOR THE PERMITTING AND INSTALLATION OF A SEWAGE DISPOSAL SYSTEM. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.
2. NO CHANGES TO THIS PLAN ARE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF SOURATI ENGINEERING GROUP, LLC.
3. INSTALLATION SHALL BE IN STRICT CONFORMITY WITH TITLE 5 OF THE MASSACHUSETTS STATE SANITARY CODE AND THE RULES + REGULATIONS OF THE TOWN OF TISBURY BOARD OF HEALTH.
4. MACHINERY THAT MAY DISTURB PIPE ALIGNMENT IN THE DISPOSAL SYSTEM SHALL NOT BE USED ON THE DISPOSAL AREA.
5. NO EXISTING WELLS WERE FOUND WITHIN 100' FROM THE PROPOSED SOIL ABSORPTION SYSTEM, OR WITHIN 50' FROM THE SEPTIC TANK.
6. FINISHED SURFACE OF LEACHING AREA SHALL BE GRADED TO INSURE RUNOFF (2% MINIMUM SLOPE).
7. THE SEPTIC TANK AND THE DISTRIBUTION BOX SHALL BE EITHER:
   A. WATERTIGHT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND WARRANTY, OR
   B. MADE WATERTIGHT BY THE MANUFACTURER, EQUIPMENT SUPPLIER OR INSTALLER, USING ASPHALT OR SYNTHETIC POLYMER SEALER SPECIFIED BY THE CONCRETE OR SYNTHETIC MATERIAL MANUFACTURER.
8. SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ONTO WHICH 6 INCHES OF CRUSHED STONE HAVE BEEN PLACED TO MINIMIZE UNEVEN SETTLING.
9. ALL SYSTEM COMPONENTS SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS.
10. ALL PIPING SHALL BE A MINIMUM OF SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
11. DISTRIBUTION BOX OUTLET LINES SHALL BE LEVEL FOR A MINIMUM OF THE FIRST TWO FEET OF THEIR LENGTH.

CONSTRUCTION IN FILL:

1. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL. THE FILL 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 40% 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 ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

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

HIGH CAPACITY INFILTRATOR CHAMBER (SOIL ABSORPTION SYSTEM):

1. THE INFILTRATORS SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURER SPECIFICATIONS.

Design Computations:

HYDRAULIC LOADING

4 + 1 = 5 BEDROOMS AT 110 GPD = 550 GPD
A GARBAGE DISPOSAL IS NOT ALLOWED IN THIS DESIGN.

SEPTIC TANK SIZE

INCREASE FLOW TO 200% (TITLE V) = 1,100 GALLONS USE 1,500 GALLON SEPTIC TANK.

LEACHING CAPACITY

DESIGN PERCOLATION RATE IS 5 MIN./INCH SOIL TYPE: CLASS 1
EFFLUENT LOADING RATE 0.74 G/S.F./D)
USE 1 LEACHING FIELD WITH 28 CHAMBERS.

TOTAL AREA OF FIELD = 28 CHAMBERS X 6.25 L.F./CHAMBER X 4.72 S.F./L.F. = 826 S.F.
TOTAL LEACHING CAPACITY PROVIDED = 826 S.F. X 0.74 G/S.F./D = 611 G/D.
TOTAL LEACHING CAPACITY PROVIDED = 611 G/D.
TOTAL HYDRAULIC LOADING REQUIRED = 550 G/D.

NOTES:

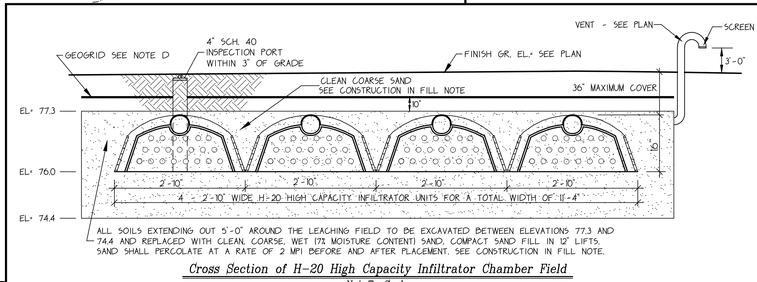
A.) THE OWNER SHALL SUBMIT THE PROPOSED HOUSE FLOOR PLANS TO THE TISBURY BOARD OF HEALTH FOR THEIR APPROVAL.

B.) ALL UNDERGROUND UTILITIES, INCLUDING WATER, PHONE, AND ELECTRICAL LINES, MUST BE LOCATED BY THE CONTRACTOR AND DIG SAFE SYSTEM, INC. MUST BE CONTACTED AT 1-888-344-7233 PRIOR TO ANY EXCAVATION.

C.) ENGINEER SHALL INSPECT BOTTOM OF EXCAVATION IN THE LEACHING FIELD PRIOR TO INSTALLING THE LEACHING FIELD.

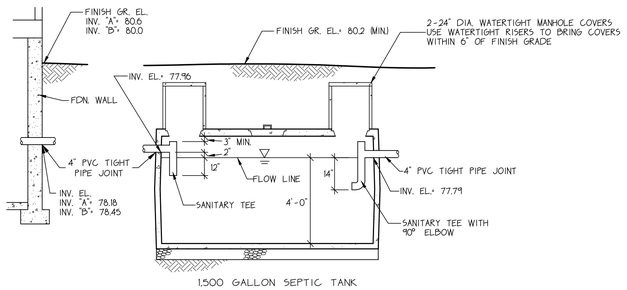
D.) INSTALL TENCATE MIRAGRID 10XT GEOGRID OR APPROVED EQUAL 10" ABOVE LEACHING FIELD AND EXTENDING OUT 5'-0" AS SHOWN ON PLAN.

E.) EXISTING SEPTIC TANK, "D" BOX, LEACHING TRENCHES AND LEACHING PIT TO BE PUMPED DRY, CRUSHED AND BACKFILLED WITH CLEAN, COARSE, COMPACT SAND. SEE CONSTRUCTION IN FILL NOTE.

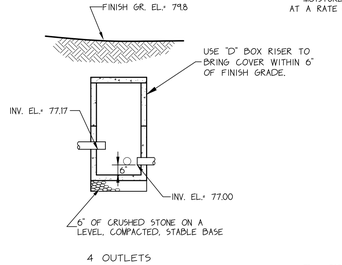


Cross Section of H-20 High Capacity Infiltrator Chamber Field
Not To Scale

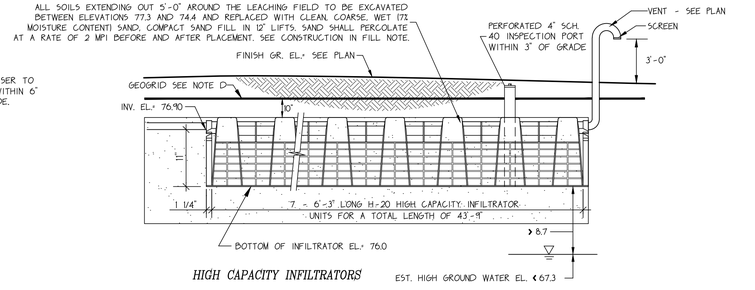
WORKSHEET REFERENCE: 102610WS



1,500 GALLON SEPTIC TANK
H-20 SEPTIC TANK



4 OUTLETS
H-20 DISTRIBUTION BOX



HIGH CAPACITY INFILTRATORS

Profile of System
Not To Scale

Revisions:

New Sewage Disposal System
In The Town Of
Tisbury

Site:
Proposed Four Bedroom House Plus
Existing One Bedroom Guest House
for a Total of Five Bedrooms
Map 8, Block B, Parcel 14
43 Look Street

Owner:
BWP Properties LLC
1447 Saybrook Road
Haddam, CT 06438

Scale: As Shown	*Date: August 2, 2022*
Job No.: 102610	*Drawn By: H. Chen*
Drawing No.: 102610SP	*Designed By: H. Chen*
Sheet 1 of 1	*Checked By: G. Sourati*

professional civil engineers
Sourati Engineering Group LLC
professional land surveyors
P.O. Box 4458
107 Beach Road, Suite 202
Vineyard Haven, MA 02568
Phone: (508) 693-9933
Fax: (508) 693-4933

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