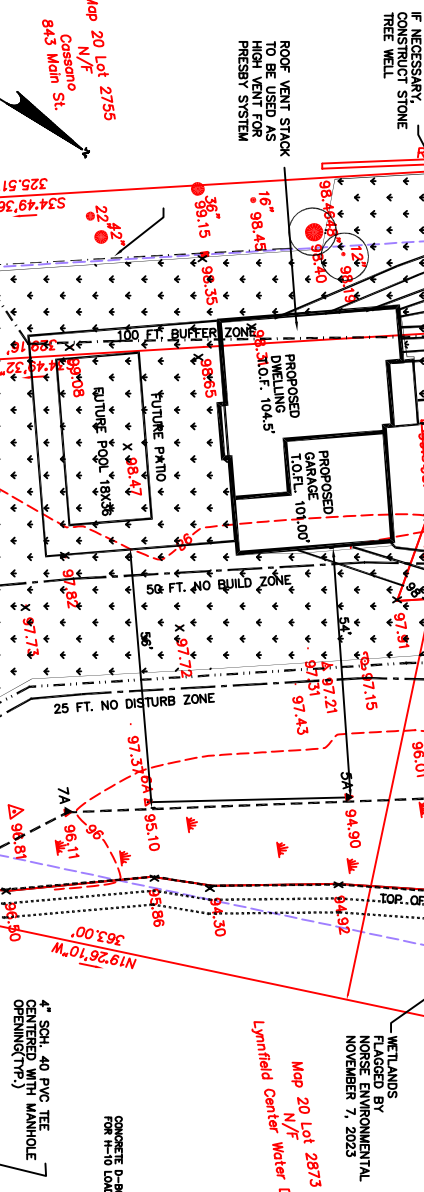


LOCATION	LETTER	INVERT
BUILDING OUTLET	A	102.25'
SEPTIC TANK INLET	B	101.60'
SEPTIC TANK OUTLET	C	101.50'
DISTR. BOX INLET	D	101.33'
DISTR. BOX OUTLET	E	101.08'
ENVIRO-SEPTIC FIELD	F	100.50'
BOTTOM OF C-33 SAND	G	100.00'

Notes

- ALL UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROPOSED CONSTRUCTION AREA BELOW THE SOIL ABSORPTION SYSTEM AND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SYSTEM BACKFILL MATERIAL SHALL CONSIST OF CLEAN SAND OR GRAVEL LESS AFTER BEING PLACED AND COMPACTED AT A RATE OF 2 MIN. PER INCH OR HEAVY MACHINERY SHALL NOT BE PERMITTED TO PASS OVER ANY PART OF THE PROPOSED SUBSURFACE DISPOSAL SYSTEM.
- SYSTEM PIPING SHALL CONSIST OF POLYETHYLENE GLYCOL (PE) PIPE.
- ALL SURFACE AND SUBSURFACE DISPOSAL SYSTEMS SHALL BE INSTALLED TO PREVENT EROSION, ANY DISTURBED AREAS SHALL BE REPAIRED AND MAINTAINED TO ORIGINAL GRADE.
- THE DESIGNER HAS NOT BEEN RETAINED BY THE CLIENT TO CONSTRUCT THE SYSTEM AND THEREFORE THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE SYSTEM WITH THE LOCAL BOARD OF HEALTH.
- ALL SURFACE AND SUBSURFACE DISPOSAL SYSTEMS SHALL BE DIRECTED AWAY FROM THE SUBSURFACE DISPOSAL SYSTEM AND FOUNDATIONS.
- ALL SYSTEM TANKS AND PIPING CONNECTIONS SHALL BE MADE WATERTIGHT THROUGH MANHOLES AND PERFORMANCE OF THE SUBSURFACE DISPOSAL SYSTEM SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE SYSTEM.
- PROPER MAINTENANCE AND PERFORMANCE OF THE SUBSURFACE DISPOSAL SYSTEM YEAR AND WHEN THE TOTAL DEPTH OF SOIL AND SOLIDS EXCEEDS 1/3 THE LIQUID DEPTH OF THE TANK, THE TANK SHOULD BE PUMPED.
- COMPONENTS NOT TO BE BACKFILLED WITHOUT INSPECTION BY BOARD OF HEALTH AND PERMISSION OBTAINED BY BOARD OF HEALTH.
- SEWER LINES WHICH HAVE LESS THAN 1/4 BENDS INSTALLED SHALL ALSO HAVE CLEANOUTS INSTALLED IN ANY ACCESSIBLE LOCATION.
- NO KNOWN WELLS EXIST WITHIN 100 FT. OF THE PROPOSED SYSTEM.
- THERE ARE NO PUBLIC WATER SUPPLIES WITHIN 400 FT. OF PROPOSED SYSTEM.
- 200 FT. OF PROPOSED SYSTEM TO PUBLIC WATER SUPPLIES WITHIN 17. THE PROPOSED SYSTEM DOES NOT WITHIN A NITROGEN SENSITIVE AREA.
- ENGINEER TO PROVIDE PERMANENT BENCHMARK ON AS-BUILT DRAWING.
- CONTRACTOR TO PROVIDE SERVICE ANALYSIS OF SAND INSTALLED WITHIN SYSTEM.
- THE SITE IS LOCATED IN THE LYNNHEDD GROUNDWATER PROTECTION DISTRICT.
- SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS, FOR ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE NEW ENGLAND PRESERVATION BOARD (NEPB) FOR COMPLETE SAND AND FILL SPECIFICATIONS.)
- MINIMUM OF 6" OF MEDIA TO COVER SAND, WITH LESS THAN 2% PASSING THE #200 SIEVE, REQUIRED AROUND THE CIRCUMFERENCE OF ENVIRO-SEPTIC PIPES. (SEE DESIGN AND INSTALLATION MANUAL FOR COMPLETE SAND AND FILL SPECIFICATIONS.)
- SYSTEM SAND TO MEET ASTM-33 STANDARD.
- INSTALLER ADVISED TO CONTACT DISSEAS PRIOR TO INSTALLATION.
- DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNPUMPED FOR MORE THAN 30 DAYS.
- INSTALLER MUST BE TRAINED TO BE AN ENVIRO-SEPTIC INSTALLER AND CERTIFIED BY PRESERVATION ENVIRONMENTAL.
- INSTALLER MUST COMPLETE SYSTEM INSTALLATION FROM PRIOR TO START OF WORK.



TP-1	TP-2	TP-3
GRND. ELEV.	98.19'	98.29'
SOIL TYPE	Bw - FSL	Bw - FSL
FROM SURF.	107R2/2	107R2/2
GRND. ELEV.	98.83'	97.64'
SOIL TYPE	C1 - FS	C1 - FS
FROM SURF.	2.57R/4	2.57R/4
GRND. ELEV.	98.19'	97.45'
SOIL TYPE	Bw - FSL	Bw - FSL
FROM SURF.	107R2/2	107R2/2
GRND. ELEV.	98.19'	97.45'
SOIL TYPE	C1 - FS	C1 - FS
FROM SURF.	2.57R/4	2.57R/4
GRND. ELEV.	98.29'	97.64'
SOIL TYPE	Bw - FSL	Bw - FSL
FROM SURF.	107R2/2	107R2/2
GRND. ELEV.	98.29'	97.64'
SOIL TYPE	C1 - FS	C1 - FS
FROM SURF.	2.57R/4	2.57R/4

SOIL ANALYSIS

WITNESSED BY: LEO CORMIER
BOARD OF HEALTH
TOWN OF LYNNHEDD
DECEMBER 14, 2023

MASS DEP REMEDIAL USE APPROVAL - PRESERVATION ENVIRONMENTAL SYSTEMS (3/15/22)

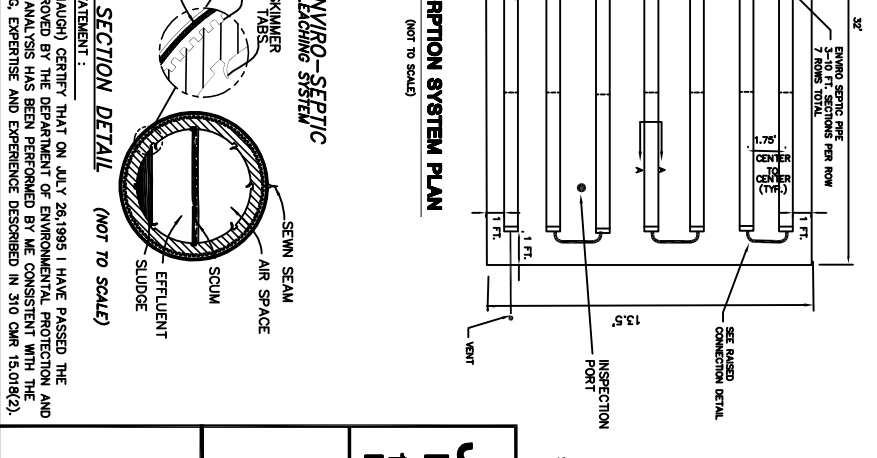
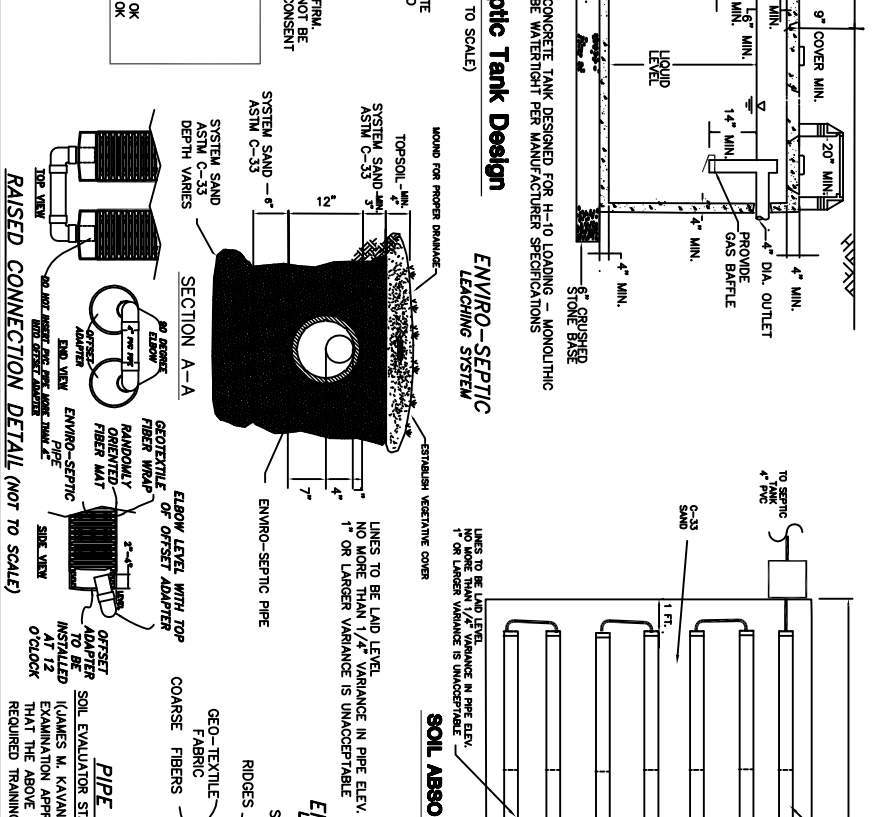
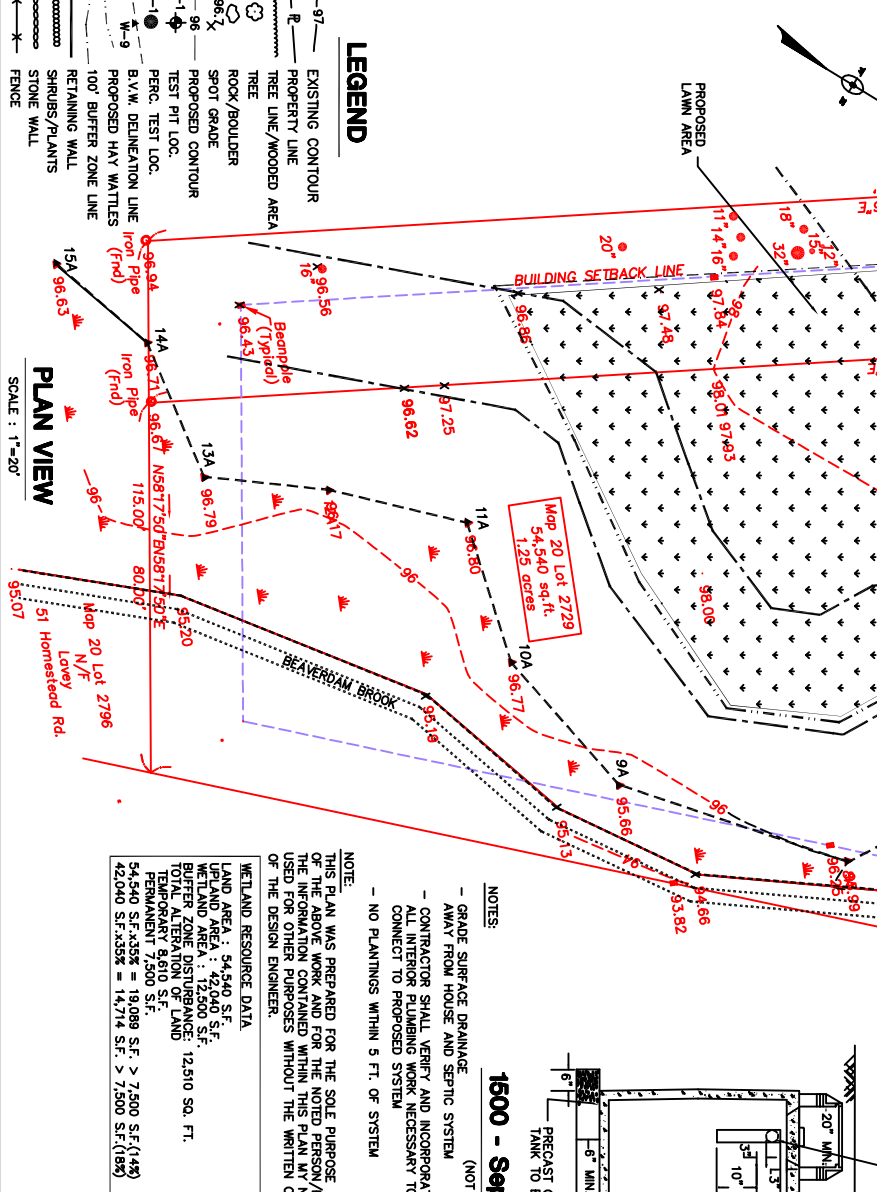
LOCAL UPGRADATION REQUEST:

UNDER SECTION 15.06(1) OF MDP REGULATION 310 CMR 15.00

- A REQUEST IS ASKED FOR A VARIANCE FOR A REDUCTION OF THE SIZE FROM THE SUBSURFACE DRAIN TO TRIBUTARY TO SURFACE WATER SUPPLY FROM 100 FT. TO 50 FT.

- A REQUEST IS ASKED FOR A VARIANCE FOR A REDUCTION OF THE SAS FROM THE TRIBUTARY TO SURFACE WATER SUPPLY FROM 200 FT. TO 125 FT.

- A REQUEST IS ASKED FOR A VARIANCE FOR A REDUCTION OF THE SEPTIC TANK FROM THE TRIBUTARY TO SURFACE WATER SUPPLY FROM 200 FT. TO 125 FT.



Standard Design

Design Flow: 3 Bathrooms @ 110 gpd = 330 gpd
Litrak = 0.74 gpd/ft.
Design of Soil Absorption System: Field
Effective Width = 15 Feet
Effective Depth = 6 Feet
Effective Depth = 6 Feet
Overall Capacity = 111 gpd/ft. = 330 gpd
Overall Capacity = 111 gpd/ft. = 330 gpd

ENVIRO-SEPTIC DESIGN

Design for min. 60% of traditional stone system = 446 s.f. x 0.60 = 268 s.f.
Design for min. 60% of traditional stone system = 446 s.f. x 0.60 = 268 s.f.
Design for min. 60% of traditional stone system = 446 s.f. x 0.60 = 268 s.f.

James M. Kavanaugh, P.E.
Environmental Consultant
14 Shady Hill Drive
N. Reading Mass. 01864
Tel: (978) 664-2925

PROPOSED SITE IMPROVEMENTS
PREPARED FOR
Zepoc Development, LLC
849 Main Street
Lynnfield Ma. 01940
Map No. 20
Parcel No. 2729
Desn. By: JMK
Dm. By: DMC
Scale: As Noted
Sheet 1 of 1