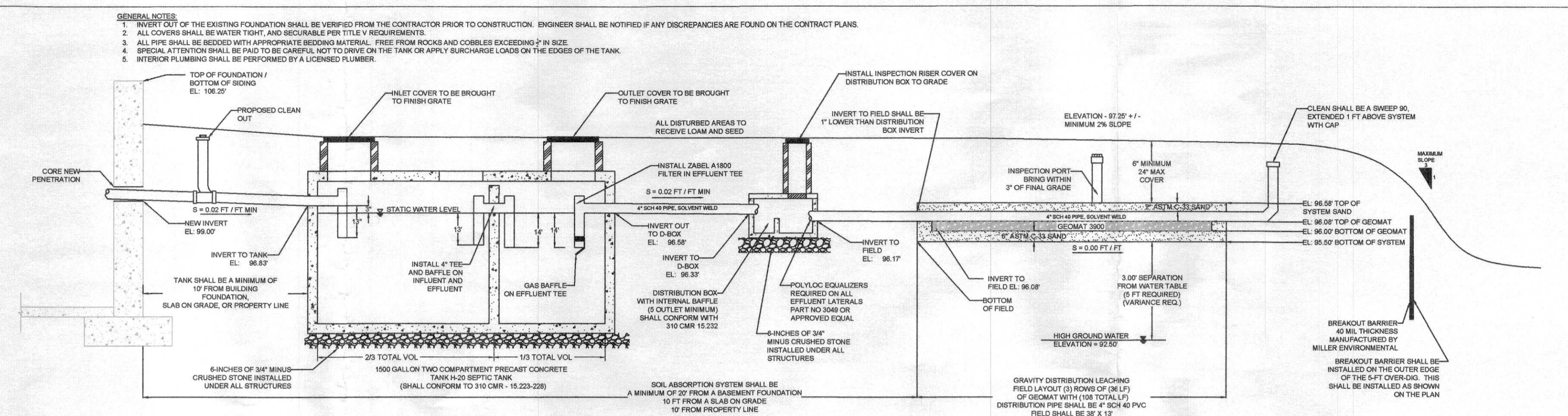
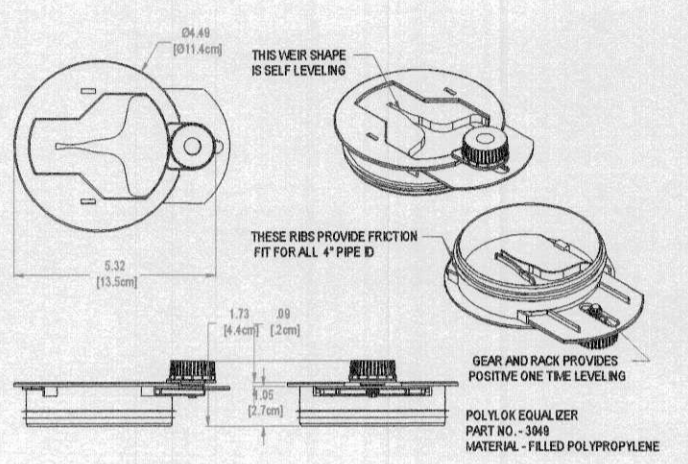


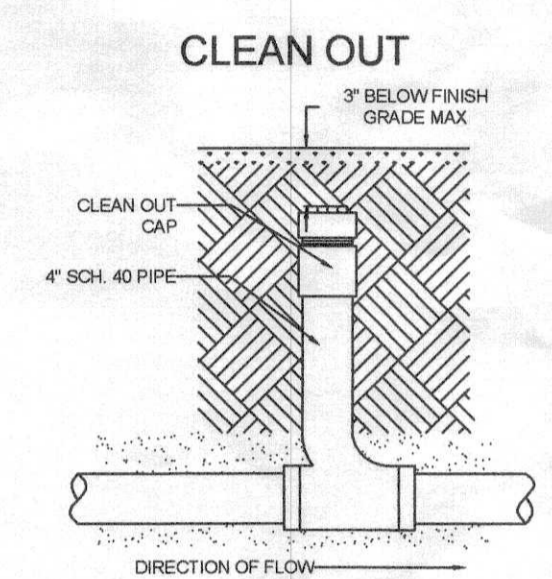
PROPOSED FIELD CONFIGURATION
NOT TO SCALE



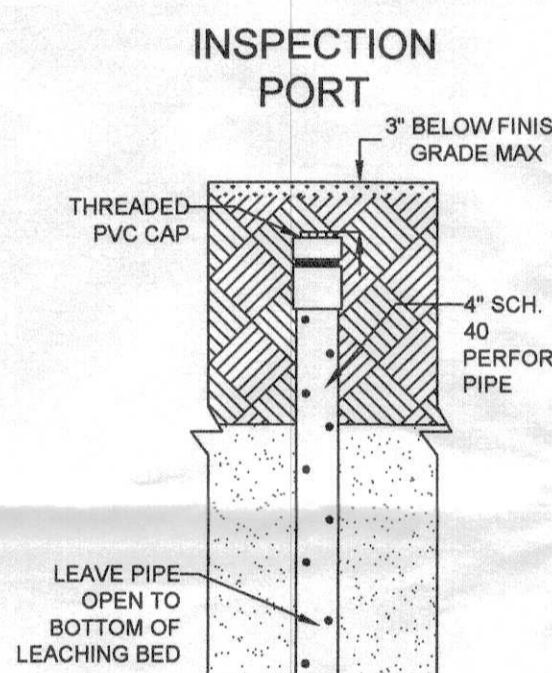
PROPOSED SEPTIC SYSTEM PROFILE AND NOTES
NOT TO SCALE



POLYLOK EQUALIZER
REQUIRED AT ALL OUTLET INVERTS TO PRESBY TUBES



CLEAN OUT
SCALE: NOT TO SCALE



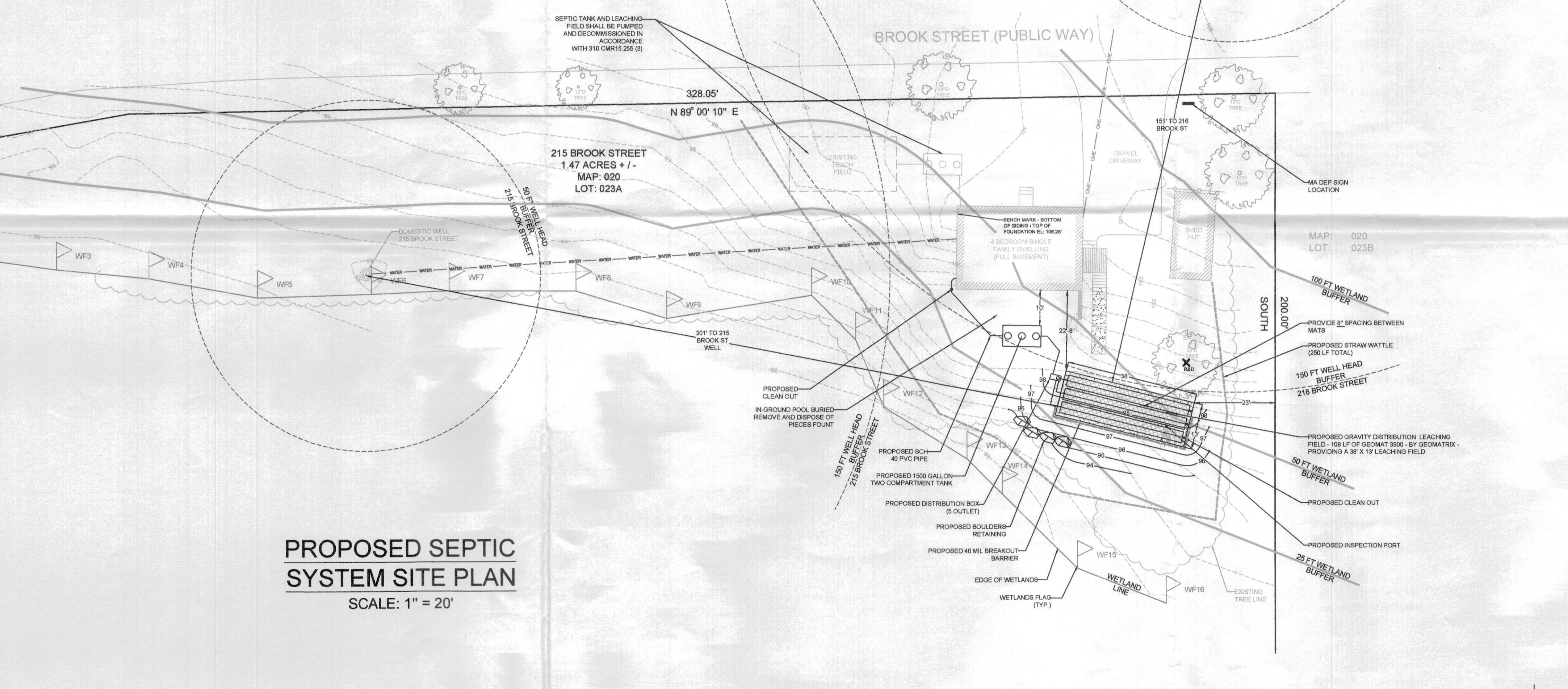
INSPECTION PORT
SCALE: NOT TO SCALE

- DESIGN CALCULATIONS / DESIGN PARAMETERS:**
- ESTIMATED DESIGN FLOW:
4 BEDROOMS X 110 GPD / BEDROOM = 440 GPD
REHOBOTH BY LAW = 25% INCREASE = 440 GPD X 1.25 = 550 GPD
 - SEPTIC TANK REQUIRED CAPACITY = 550 GPD X 200% DAILY FLOW = 1100 GALLONS
USE = 1500 GALLON TWO COMPARTMENT TANK
 - LEACHING AREA REQUIREMENTS: USE 2 M.P.I. (5 FT SEPARATION)
EFFLUENT LOADING RATING = 0.74 GPD/S.F. (CLASS I)
WITH A LEACHING FIELD AREA REQUIRED:
550 GPD / 0.74 GPD / S.F. = 744 S.F.
 - LEACHING AREA PROVIDED:
GEOMAT PROVIDED:
LOADING RATE FROM MANUAL: 1.50 GPD / SF
550 GPD / 1.50 GPD / SF = 367 SF OF GEOMAT
USE: GEOMAT 3600 = 3.42 SF / LF
367 SF / 3.42 SF / LF = 108 LF REQUIRED
3 LINES X 36 LF / LINE = 108 LF PROVIDED
108 LF X 3.42 SF / LF X 1.50 GPD / SF = 550 GPD PROVIDED > 550 GPD REQUIRED
SAND BED:
MINIMUM AREA = ALLOW UP TO 60% AGGREGATE BED SIZE
AGGREGATE BED SIZE = 744 S.F. REQUIRED
GEOMAT BED MIN = 744 S.F. X .60 = 447 SF REQ
MASSACHUSETTS MIN BED SIZE = 400 S.F. REQUIRED
PROPOSED SAND BED SIZE = 38 LF X 13 FT = 494 SF PROVIDED > 447 S.F. REQUIRED
- NO PRODUCT SUBSTITUTIONS WILL BE PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER AND THE LOCAL APPROVING AGENT. CHANGE IN SYSTEM PRODUCT MAY BE SUBJECT TO REDESIGN.**

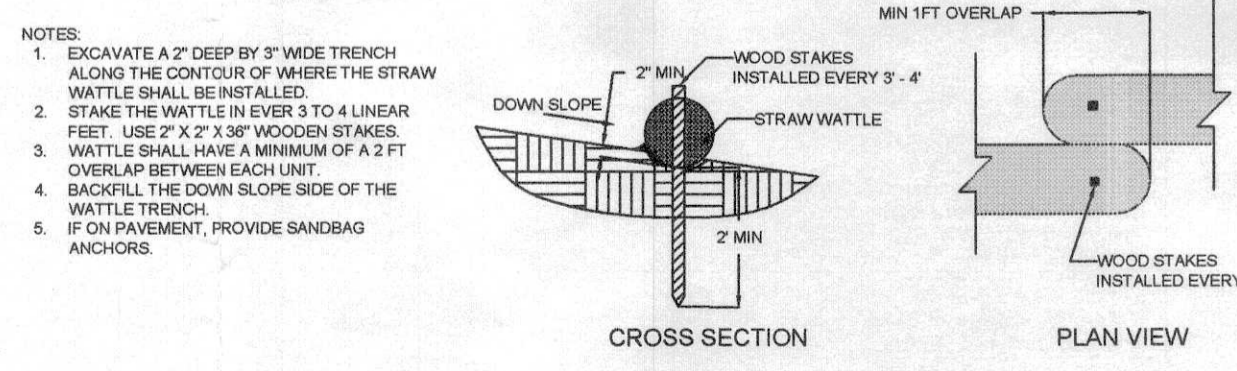
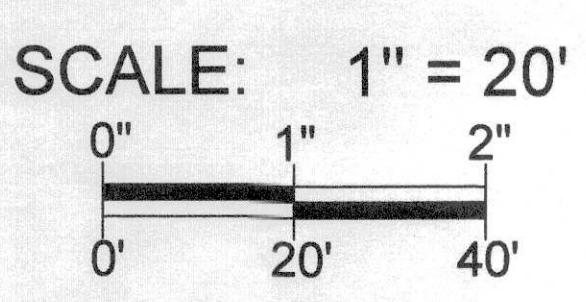
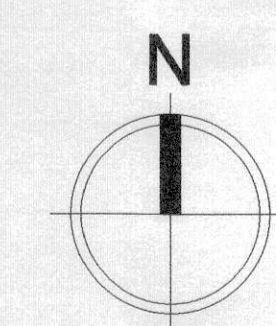
- CONTRACTOR NOTES / GENERAL NOTES:**
- ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION SANITARY CODE, TITLE 5, AND LOCAL MUNICIPAL BOARD OF HEALTH CODES, AND REGULATIONS
 - THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE BOARD OF HEALTH AGENT AND THE DESIGN ENGINEER WITHIN A TIMELY MANNER TO ALLOW FOR INSPECTIONS OF ALL CONSTRUCTION PHASES, INCLUDING BUT NOT LIMITED TO, OBSERVATION OF THE OPEN HOLE PRIOR TO THE PLACEMENT OF FILL MATERIAL AND THE COMPLETION OF THE SYSTEM PRIOR TO FINAL COVER.
 - THERE ARE NO KNOWN WELLS WITHIN 100 FEET OF THE PROPOSED LEACHING FIELD.
 - SEPTIC TANK SHALL BE H-20 DESIGN WITH A MINIMUM CAPACITY OF 1500 GALLONS, TWO COMPARTMENT TANK, IF VEHICLE TRAFFIC IS PRESENT USE H-20 LOADED CAPACITY TANK.
 - USE OF A DOMESTIC GARBAGE GRINDER IS PROHIBITED WITH THIS DESIGN.
 - DISTRIBUTION BOX TO BE H-20 DESIGN, IF VEHICLE TRAFFIC IS PRESENT, USE H-20 LOADING CAPACITY TANK.
 - ALL DESIGN COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR APPROVED EQUAL PER 310 CMR 15.221 (12).
 - PER 310 CMR 15.246(C), FROM THE DATE OF INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF A CERTIFICATE OF COMPLIANCE FROM THE APPROVING AUTHORITY IN ACCORDANCE WITH 310 CMR 15.021, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES WHICH MIGHT DAMAGE THE SOIL ABSORPTION SYSTEM. SUCH FLAGGING IS INTENDED TO PREVENT HEAVY EQUIPMENT FROM COMPROMISING THE SYSTEM.
 - LOCATION OF UTILITIES IS APPROXIMATE AND CONTRACTORS SHALL NOTIFY DIGSAFE, (811) AT LEAST 72 HOURS PRIOR TO THE ONSET OF CONSTRUCTION TO HAVE ALL EXISTING UTILITIES LOCATED AND CLEARLY MARKED.
 - UNSATURABLE SOIL AS INDICATED ON THE CONTRACT PLANS, SUCH AS TOPSOIL, SUBSOIL, AND OTHER IMPERVIOUS MATERIALS SHALL BE REMOVED AND REPLACED WITH CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES GRADE AS FOLLOWS:
 - NO MATERIAL LARGER THAN 2 INCHES.
 - UP TO 40% BY WEIGHT MAY BE RETAINED ON A #4 SIEVE.
 - OF THE FRACTION PASSING THE #4 SIEVE, THE FOLLOWING CRITERIA APPLY:
- | SIEVE SIZE | EFFECTIVE PARTICLE SIZE | % THAT MUST PASS SIEVE |
|------------|-------------------------|------------------------|
| #4 | 4.75 mm | 95% - 100% |
| #50 | 0.30 mm | 5% - 30% |
| #100 | 0.15 mm | 0% - 10% |
| #200 | 0.075 mm | 0% - 2% |
- A SIEVE ANALYSIS OF THE MATERIAL SHALL BE PERFORMED TO DETERMINE THAT IT MEETS THE GRADATION REQUIREMENTS NOTED ABOVE. THE INSTALLER SHALL PROVIDE A COPY OF THE SIEVE ANALYSIS RESULTS TO THE DESIGN ENGINEER.
 - ALL PIPING COMPONENTS IN THIS PROPOSED SYSTEM SHALL BE SOLID SCHEDULE 40 PVC. PIPE SIZE INSTALLED IN ACCORDANCE WITH PLANS. PIPING SHALL BE SOLVENT WELDED WITH APPROPRIATE GLUE.
 - SEPTIC SYSTEM OWNER SHALL HAVE THE SEPTIC TANK AND OUTLET FILTER INSPECTED ANNUALLY AND CLEANED AND PUMPED AS NECESSARY.
 - DESIGN ENGINEER ASSUMES NO LIABILITY FOR DAMAGES AS A RESULT OF FAULTY CONSTRUCTION OR ANY DEVIATION OF ALIGNMENT AND GRADE SPECIFIED HEREIN WITHOUT PRIOR WRITTEN NOTIFICATION AND WRITTEN APPROVAL FROM THE DESIGN ENGINEER.
 - SEPTIC TANK SHALL HAVE A ZABEL A1800 FILTER OR APPROVED EQUIVALENT INSTALLED IN OUTLET TEE.
 - TOPOGRAPHIC INFORMATION TAKEN FROM FIELD SURVEY BY OAKHILL ENGINEERING IN SEPT 2020. THIS DOES NOT CONSTITUTE A PROPERTY BOUNDS SURVEY.
 - WETLAND ARE FOUND ON THIS PROPERTY OR WITHIN 100 FT OF THIS PROPOSED WORK. SEE CONSERVATION PLAN FOR DETAILS.
 - CONTRACTOR TO PERFORM DUE DILIGENCE ON LOCATING BURIED UTILITIES, BURIED STRUCTURES, OVERHEAD WIRES, AND OBSTRUCTIONS. CONTRACTOR SHALL FOLLOW ALL OSHA, LOCAL, AND STATE REGULATIONS.
 - NO CONSTRUCTION EQUIPMENT SHALL PASS OVER THE SYSTEM.
 - CONTRACTOR SHALL FINISH GRADE SURFACE RUNOFF AWAY FROM THE SYSTEM, STRUCTURES AND PROPERTY LINES.

- LOCAL UPGRADE APPROVALS REQUIRED**
- 310 CMR 15.405(1)(h) - REDUCTION OF THE FIVE FOOT MINIMUM DEPTH TO GROUNDWATER, 3.00 FT SEPARATION WITH GEOMAT WASTEWATER TREATMENT SYSTEM (2 FT REDUCTION).
 - ARTICLE I - PUBLIC HEALTH - SECTION 6: ALLOWANCE TO PLACE A SEPTIC WITHIN 60 FT OF A WETLANDS. SETBACK IS 46.50 FT.
 - 310 CMR 15.405(1)(a) - REDUCTION OF THE SET BACK TO VEGETATED WETLANDS FROM 50 FT TO 25 FT.

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN PURSUANT TO 310 CMR 15.007 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERIENCE AND EXPERIENCE DESCRIBED IN 310 CMR 15.007. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION AS INDICATED ON THE ATTACHED SOIL EVALUATOR FORM ARE ACCURATE AND IN ACCORDANCE WITH 310 CMR 15.100 THROUGH 15.107.

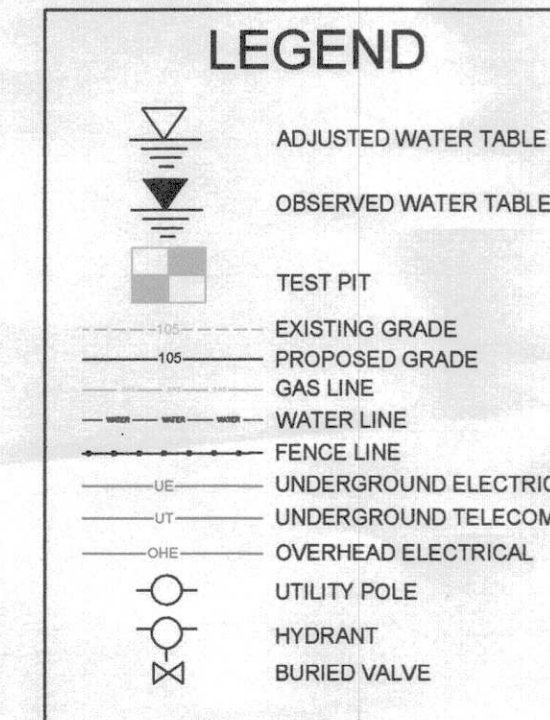


PROPOSED SEPTIC SYSTEM SITE PLAN
SCALE: 1" = 20'



STRAW WATTLE

- NOTES:**
- EXCAVATE A 2" DEEP BY 3" WIDE TRENCH ALONG THE CONTOUR OF WHERE THE STRAW WATTLE SHALL BE INSTALLED.
 - STAKE THE WATTLE IN LEVELS TO A LINEAR FEET. USE 2" X 3" X 36" WOODEN STAKES.
 - WATTLE SHALL HAVE A MINIMUM OF A 2 FT OVERLAP BETWEEN EACH UNIT.
 - BACKFILL THE DOWN SLOPE SIDE OF THE WATTLE TRENCH.
 - IF ON PAVEMENT, PROVIDE SANDBAG ANCHORS.



APPLICANT:
WILLIAM GREER III
215 BROOK STREET
REHOBOTH, MA 02769

OWNER:
WILLIAM GREER III
215 BROOK STREET
REHOBOTH, MA 02769

REPAIR SANITARY SEWERAGE DISPOSAL SYSTEM

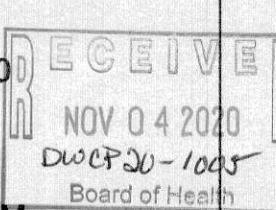
215 BROOK STREET
REHOBOTH, MA 02769
Map: 020
Lot: 023A

OAKHILL ENGINEERING LLC
75 OAK HILL AVE: 2ND FL
SEEKONK, MA 02771
401-574-0871
MARK4026@GMAIL.COM

SHEET NUMBER: C-1
SCALE = 1" = 20'
DATE: 10/29/20

DRAWN BY: MPM
CHECKED BY: MPM

ENGINEER STAMP:
MARK P. MARIANO
CIVIL
No. 51945
REGISTERED PROFESSIONAL ENGINEER



10/29/20