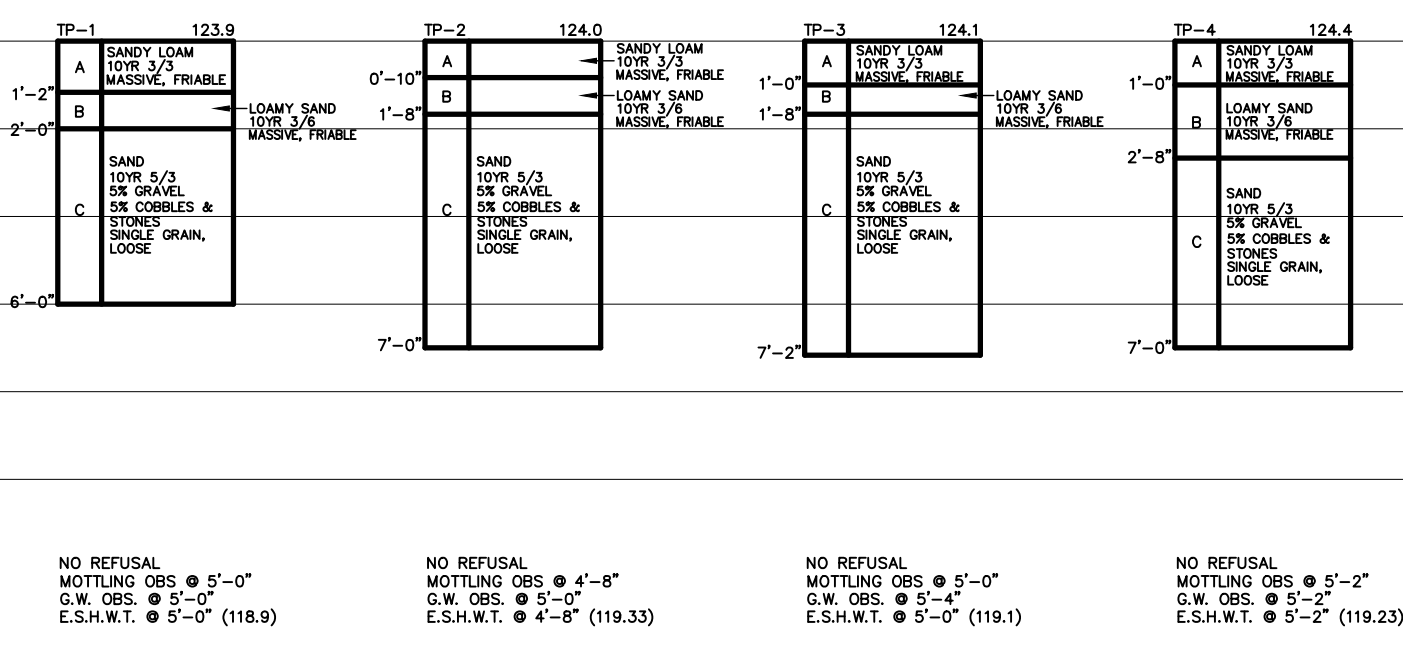


**TEST PIT DATA:**

DATE OF TESTING: 5/11/2021  
 TEST BY: STAMSKI AND McNARY, INC.  
 CERT. SOIL EVAL.: MOLLY OBENDORF (SE 14018)  
 APPROVED EVALUATOR IN 2016  
 WITNESSED BY: STAN SOSNICKI

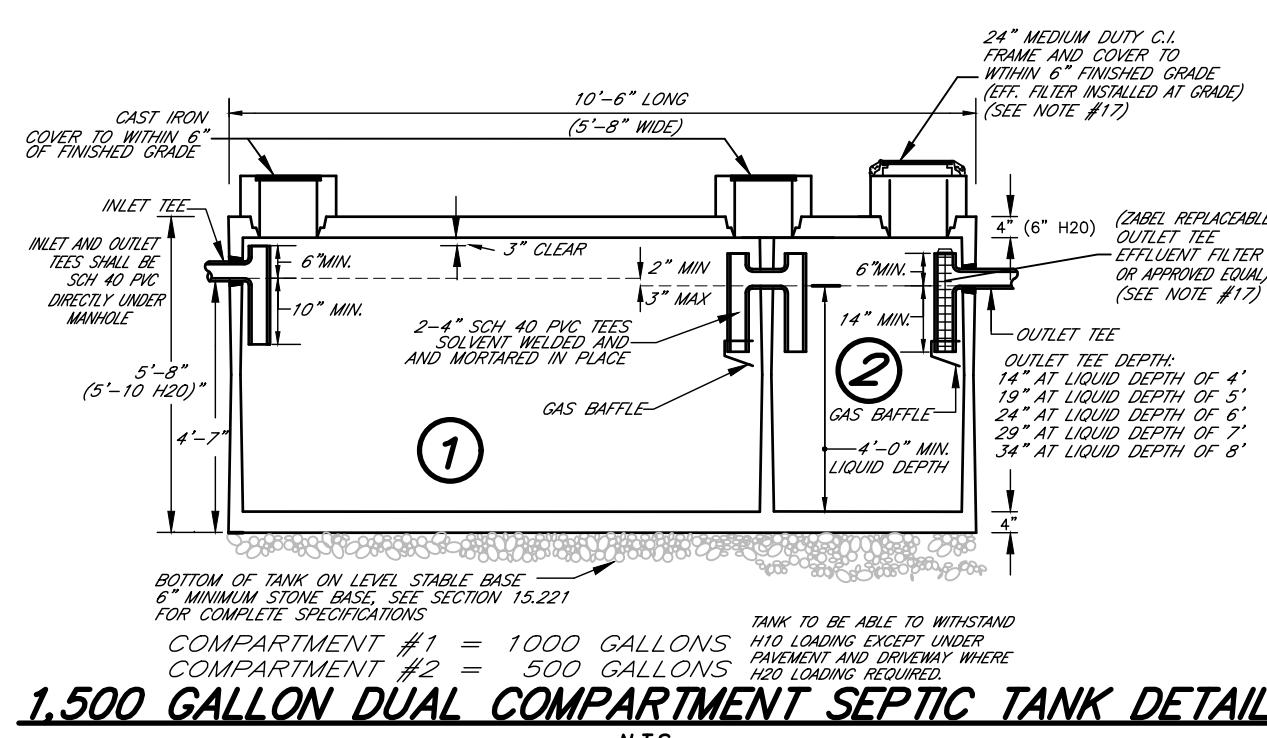


**PERC. TEST DATA:**

DATE OF TESTING: 5/11/2021  
 TEST BY: STAMSKI AND McNARY, INC.  
 CERT. SOIL EVAL.: MOLLY OBENDORF  
 WITNESSED BY: STAN SOSNICKI

**A**  
 DEPTH OF TEST: 38"  
 RATE: <2 MPI

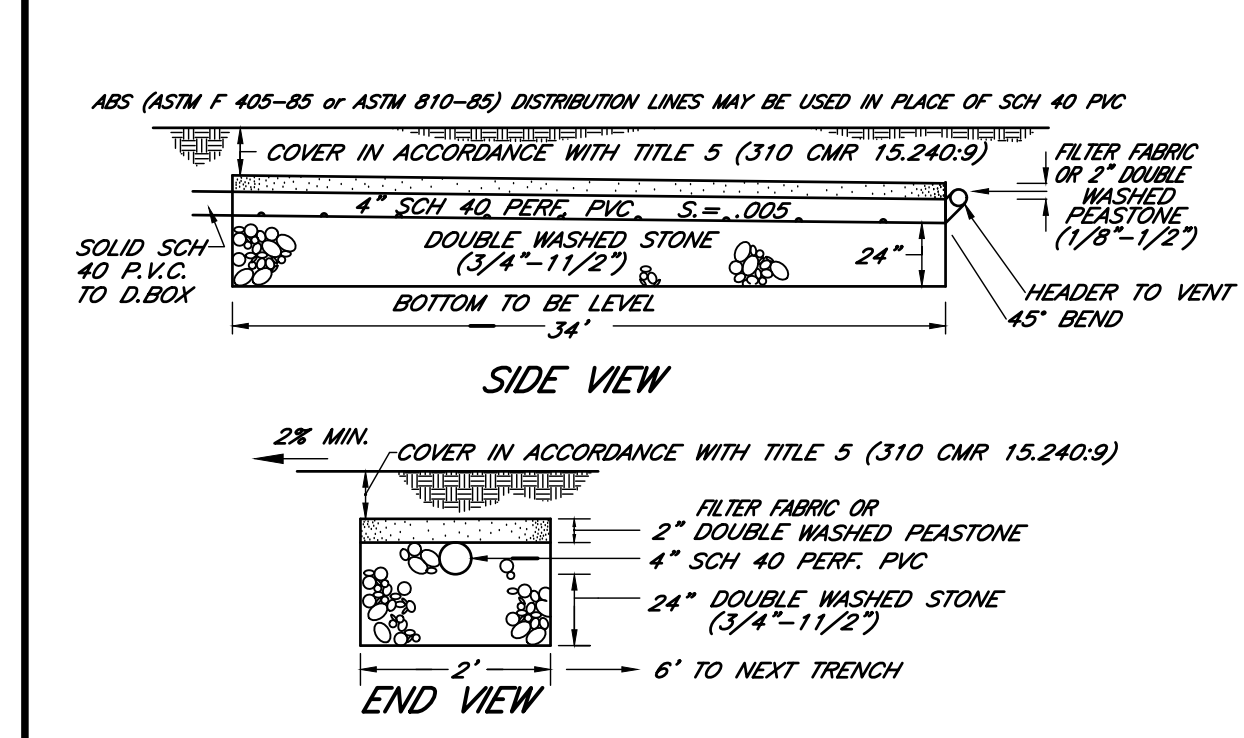
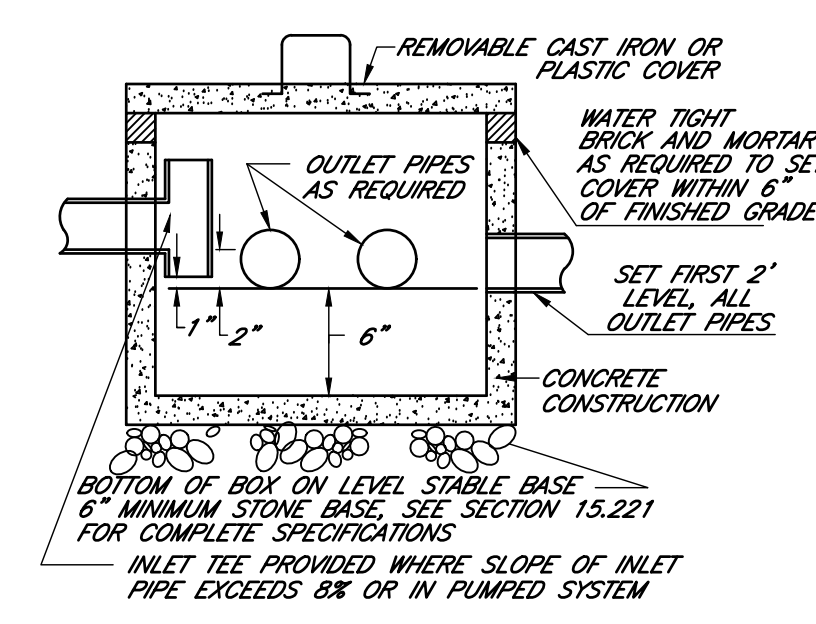
**B**  
 DEPTH OF TEST: 46"  
 RATE: <2 MPI



**1,500 GALLON DUAL COMPARTMENT SEPTIC TANK DETAIL**  
 N.T.S.  
 \*TANK SHALL CONFORM TO TITLE 5 REQUIREMENTS.  
 AS MANUFACTURED BY SHEA CONCRETE OR APPROVED EQUAL

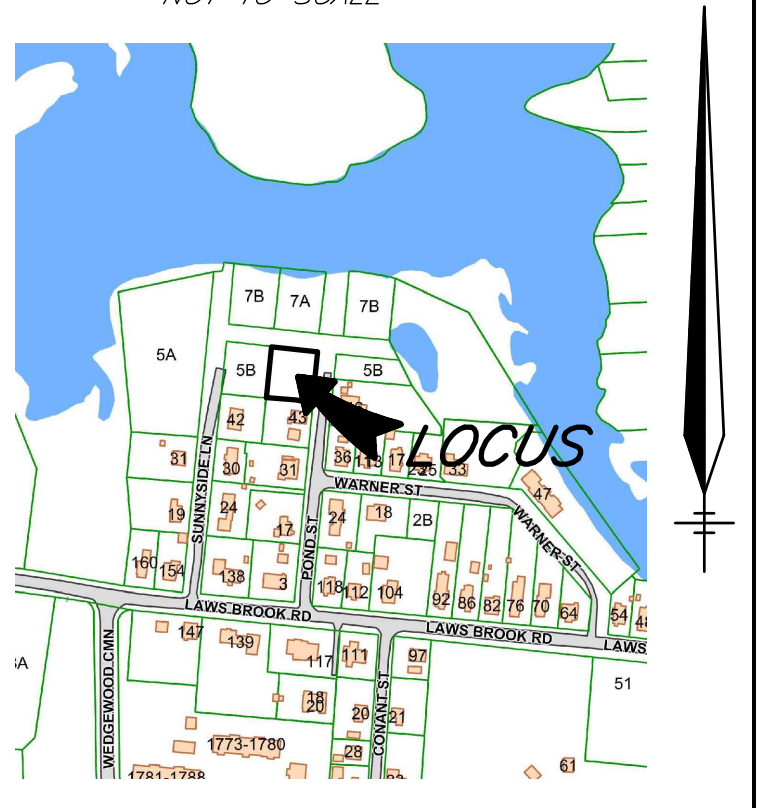
**D.BOX DETAIL:**

TO CONFORM TO TITLE 5 REQUIREMENTS  
 N.T.S.  
**NO. OF OUTLETS: 6**



**SOIL ABSORPTION SYSTEM**  
 NOT TO SCALE

**LOCUS PLAN:**



**NOTES:**

- THIS PLAN IS FOR THE DESIGN AND CONSTRUCTION OF A SEWAGE DISPOSAL FACILITY ONLY.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO TITLE 5 AND THE CONCORD BOARD OF HEALTH REGULATIONS.
- IF ALTERATIONS (REMOVAL OF VEGETATION, GRADING, EXCAVATIONS, ETC.) ARE TO BE MADE WITHIN 100 FT OF WETLAND AREAS (PONDS, BROOKS, SWAMPS, ETC.) A REQUEST FOR DETERMINATION OF APPLICABILITY OF THE WETLANDS PROTECTION ACT (c131 s40A) SHOULD BE FILED WITH THE TOWN'S CONSERVATION COMMISSION. THE FILING OF A NOTICE OF INTENT MAY BE REQUIRED AND LOCAL BYLAWS MAY APPLY.
- ACCEPTABLE MATERIAL SPECIFICATIONS FOR DISTRIBUTION LINES: PVC-SCHEDULE 40 (ASTM D 1785 & D 2865), SDR 35 (ASTM D 3034), ABS-SCHEDULE 40 (ASTM F 628), HDPE-SHALL MEET OR EXCEED ASTM F 810 FOR SMOOTH WALL POLYETHYLENE PIPE FOR USE IN DRAINAGE AND WASTE DISPOSAL FIELDS. SCHEDULE 40 PVC SHALL BE USED IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
- UNLESS OTHERWISE SHOWN, THERE ARE NO KNOWN WELLS WITHIN 150' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
- ALL TOP, SUBSOIL, FILL, BOULDERS, AND OTHER MATERIALS UNDER AND WITHIN 5' OF THE PROPOSED LEACHING AREA SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL ACCORDING TO TITLE V SECTION 15.255 "CONSTRUCTION IN FILL"
- PER TITLE 5 REQUIREMENTS, THE DESIGN ENGINEER IS REQUIRED TO INSPECT CONSTRUCTION OF THE SEPTIC SYSTEM AND CERTIFY THAT THE SYSTEM IS CONSTRUCTED ACCORDING TO THE PLANS, LOCAL REGULATIONS, AND TITLE 5. IN MOST INSTANCES THE DESIGN ENGINEER IS ALSO REQUIRED TO PREPARE AN "AS-BUILT" PLAN. UNLESS OTHERWISE SPECIFICALLY STATED IN WRITING BETWEEN OWNER AND THE INSTALLER, THE INSTALLER SHALL BE RESPONSIBLE FOR COORDINATING INSPECTIONS WITH THE DESIGN ENGINEER AND PAY FOR THESE SERVICES. NOTIFYING THE DESIGN ENGINEER DOES NOT RELIEVE THE OWNER OR INSTALLER FROM THE RESPONSIBILITY OF HAVING THE REQUIRED INSPECTIONS ETC. BY THE BOARD OF HEALTH.
- FINISHED GRADE OVER THE LEACHING AREA SHALL HAVE A MINIMUM SLOPE OF 2%.
- THE FIRST TWO FOOT SECTIONS OF PIPE FROM THE D. BOX SHALL BE SET LEVEL.
- THE SYSTEM SHALL BE STAKED AND THE BENCHMARK SET IN THE FIELD BY THE DESIGN ENGINEER.
- ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, OR PAVEMENT RESTORATION OR REPAIR. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED, INCLUDING THOSE IN CONTROL OF UTILITIES. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. D.I.G. SAFE TELE. NO.: 1-888-344-7233.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO BE LOCATED ONCE BURIED.
- ALL DISTURBED SURFACES SHALL BE RESTORED WITH 4" OF LOAM AND SEED.
- ALL SEWER MANHOLES AT FINISHED GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.
- FINAL VENT LOCATION SUBJECT TO OWNER APPROVAL.
- FOUNDATION DRAIN, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ZABEL EFFLUENT TEE FILTER SHALL BE INSTALLED IN COMPLIANCE WITH APPROVAL ISSUED AUGUST 11, 1997. ALL SEWER MANHOLES AT FINISHED GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS. COVER SHALL BE PERMANENTLY MARKED "EFFLUENT TEE FILTER".

**PLAN VIEW:**

RESIDENCE A  
 SCALE: 1"=20'

**LEGEND:**

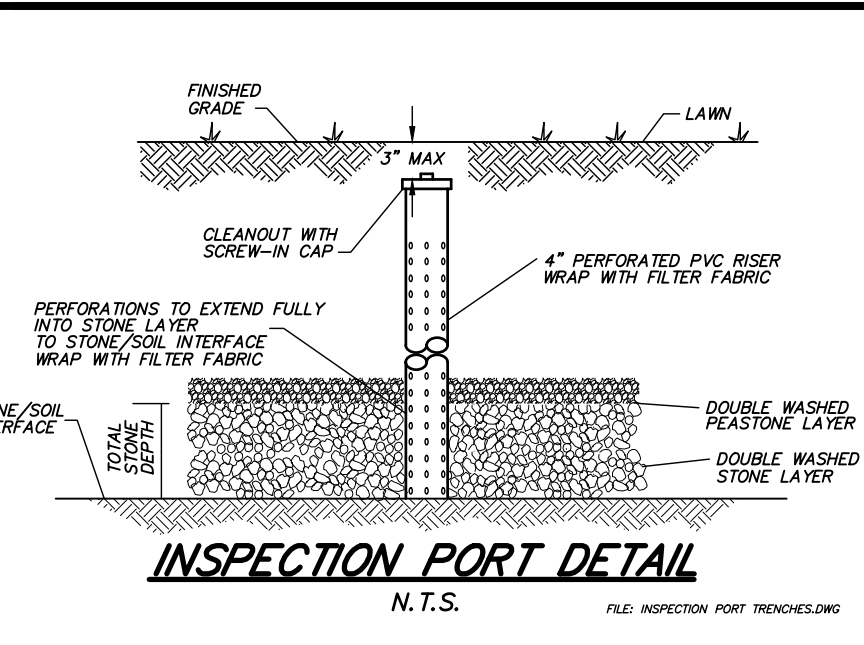
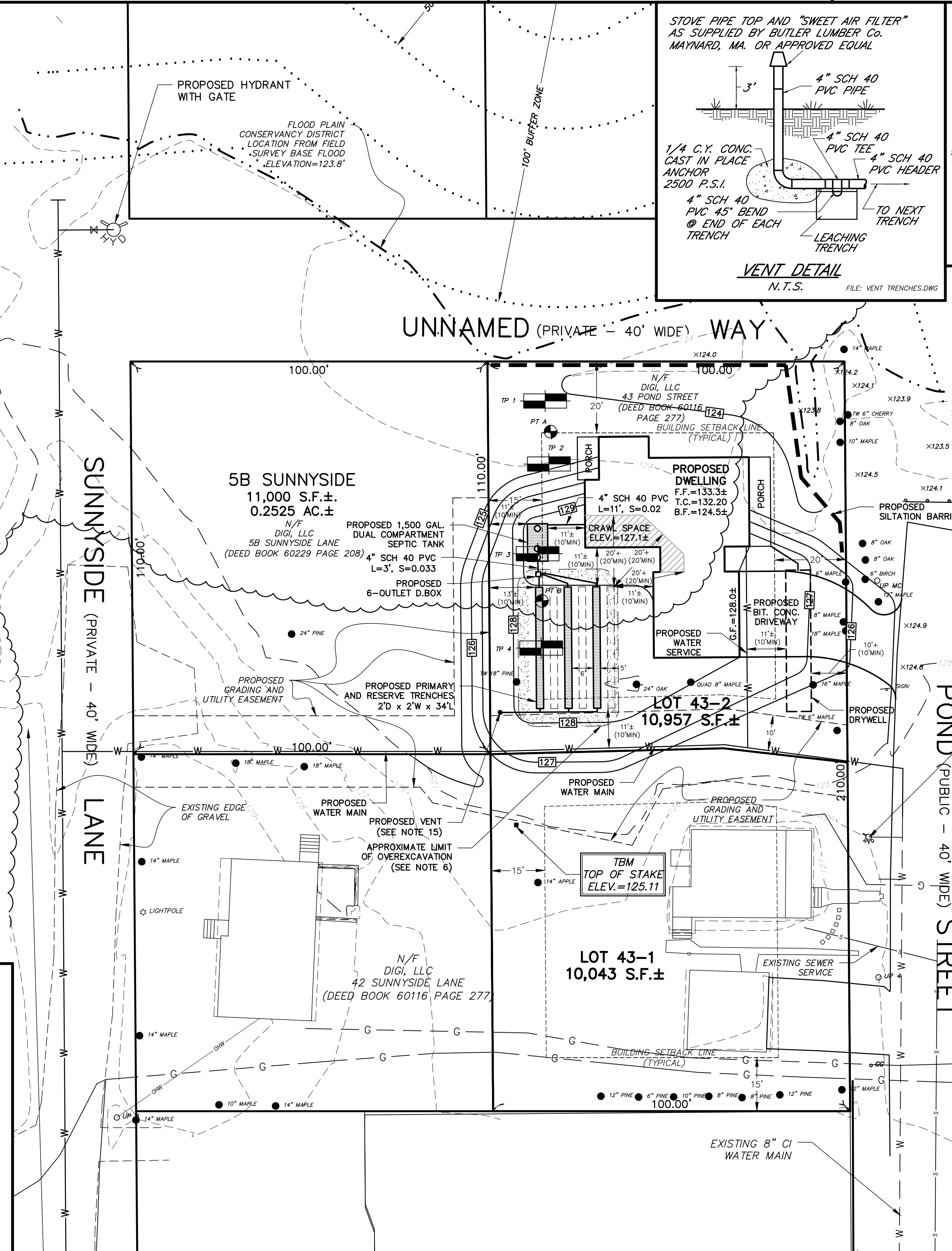
- N/F NOW OR FORMERLY
- TREE TREE
- TREE LINE
- OVERHEAD WIRES
- UP UTILITY POLE
- W WATER SERVICE (BURIED)
- PROPOSED CONTOUR
- EXISTING CONTOUR
- EDGE OF PAVEMENT
- WETLAND FLAG
- STONE WALL
- F.F. FINISHED FLOOR
- T.C. TOP OF CONCRETE
- B.F. BASEMENT FLOOR
- G.F. GARAGE FLOOR

**ZONING DISTRICT**

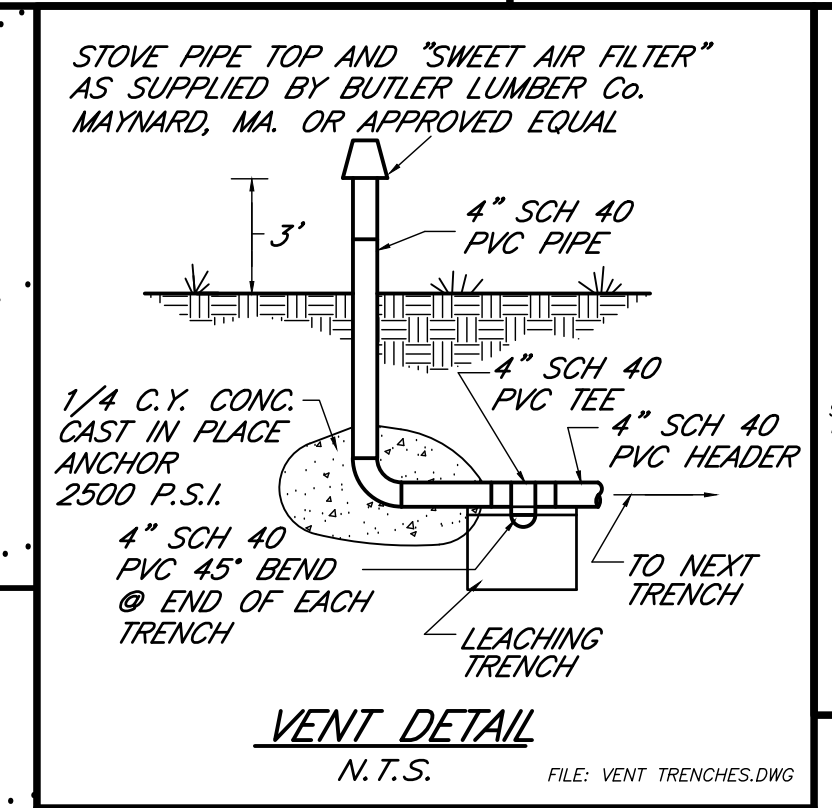
RESIDENCE C

**DATUM**

NAVD OF 1988.



**INSPECTION PORT DETAIL**  
 N.T.S.



**VENT DETAIL**  
 N.T.S.

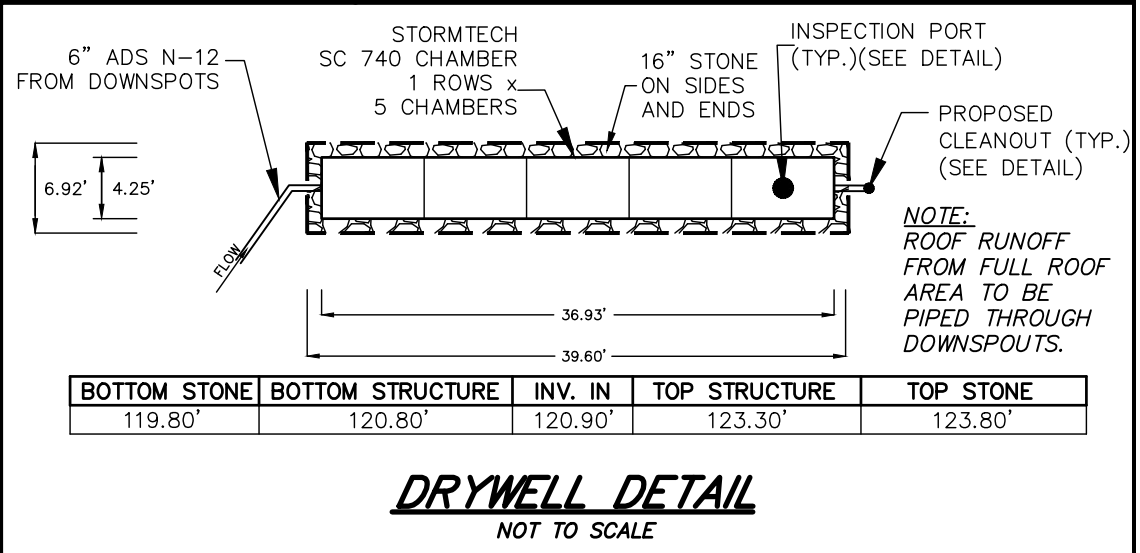
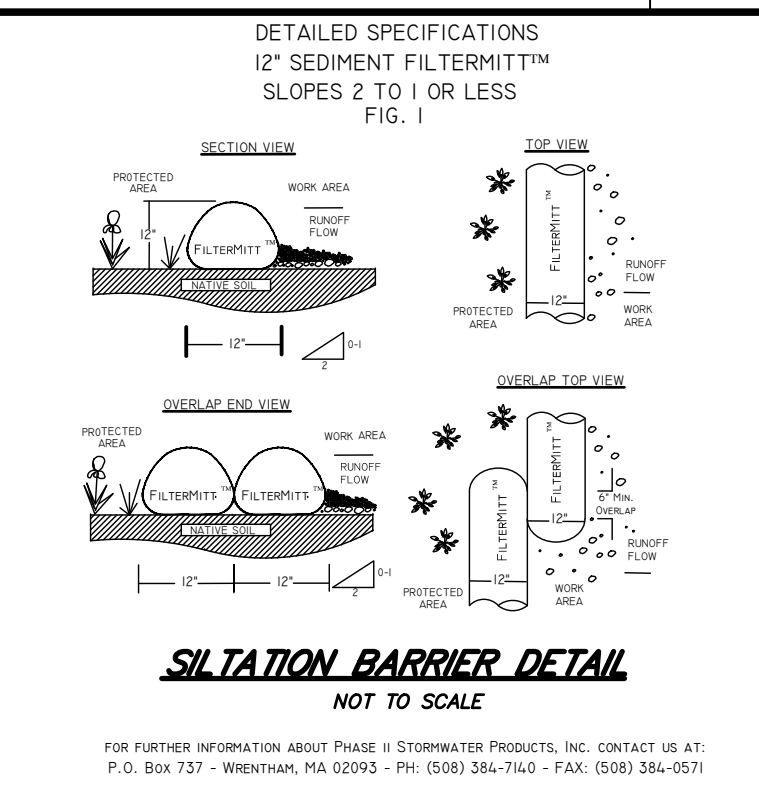
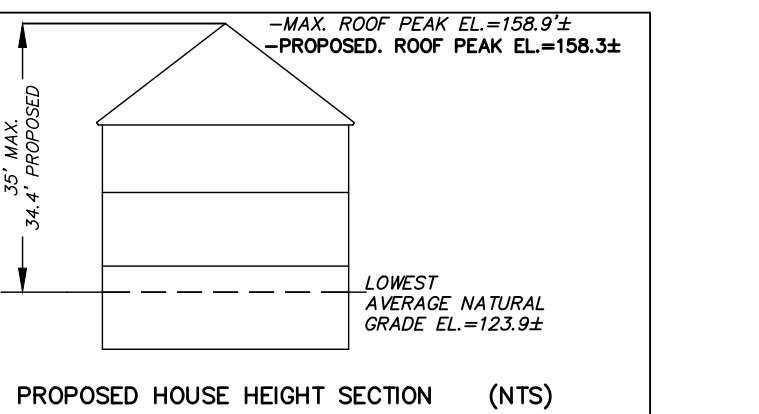
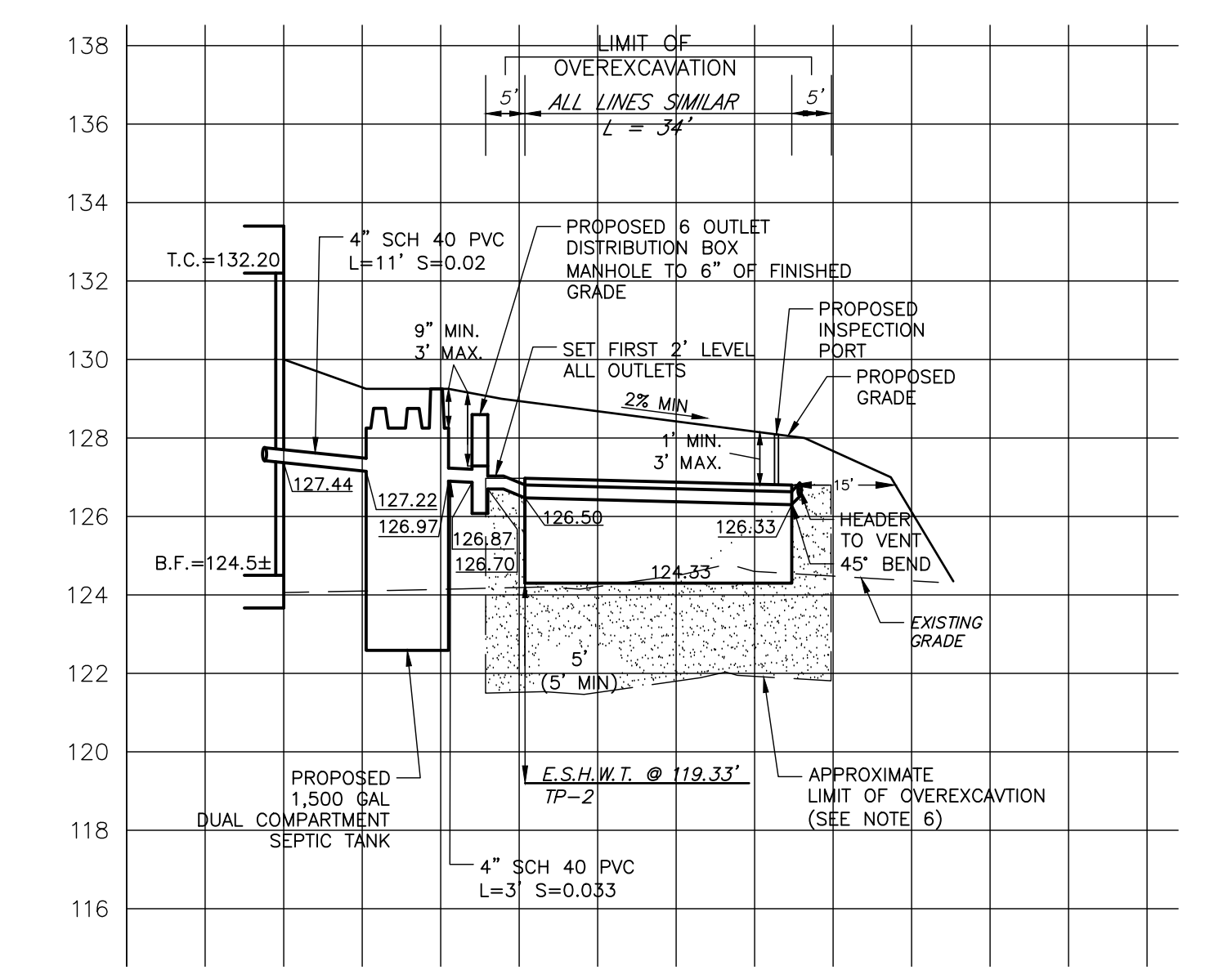
**INVERT ELEVATIONS:**

- 4" INV. @ BUILDING = 127.44
- 4" INV. @ SEPTIC TANK (IN) = 127.22
- 4" INV. @ SEPTIC TANK (OUT) = 126.97
- 4" INV. @ D.BOX (IN) = 126.87
- 4" INV. @ D.BOX (OUT) = 126.70
- AT LEACHING FACILITY:
- 4" INV. @ BEGIN LINE = 126.50
- 4" INV. @ END LINE = 126.33
- BOTTOM STONE = 124.33

**DESIGN DATA:**

- DESIGN FLOW:
- 4 BR. X 110 GPD/BR = 440 GPD
- NO GARBAGE DISPOSAL ALLOWED
- REQUIRED SEPTIC TANK:
- REQUIRED: 880 & 440 GAL=1,320 GAL
- PROVIDED: 1,000 & 500 GAL=1,500 GAL
- REQUIRED SIZE SOIL ABSORPTION SYSTEM: (PRIMARY)
- PT-B = <2 MIN/IN CLASS I SOIL
- 440 GPD/0.74 GPD/S.F.=595 S.F.
- SYSTEM NOT DESIGNED FOR GARBAGE GRINDER
- TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:
- PRIMARY RESERVE:
- 3 TRENCHES: 2'W x 2'D x 34'L
- 3 TRENCHES x 6 S.F. x 34' = 612 S.F.
- 612 S.F. > 595 S.F. O.K.

**PROFILE: SCALE: 1"= 20' H. 1"= 4' V.**



**DRYWELL DETAIL**  
 NOT TO SCALE

**SEWAGE DISPOSAL PLAN**

PREPARED FOR: BENTLEY BUILDING CORP.

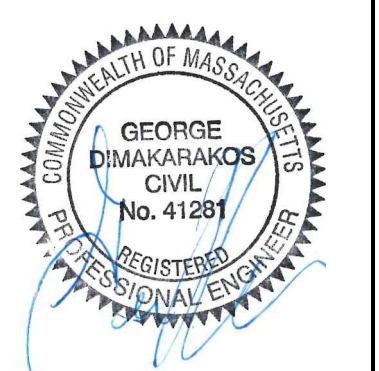
ADDRESS: 233 INDEPENDENCE RD  
 CONCORD, MA 01742

LOCATION: 43 POND STREET, LOT 43-2  
 CONCORD, MA 01742  
 MAP 9D, PARCEL 2092

SCALE: AS SHOWN  
 DATE: JULY 20, 2021  
 REV: AUGUST 9, 2021

PREPARED BY:  
**STAMSKI AND McNARY, INC.**  
 CIVIL ENGINEERS LAND SURVEYORS  
 1000 MAIN STREET - ACTON, MA 01720  
 (978) 263-8585

DESIGNED BY: MKQ DRAWN BY: MKQ JOB No. SM-678Z FILE: 678Z\_SDS.CDWG



FOR FURTHER INFORMATION ABOUT PHASE II STORMWATER PRODUCTS, INC. CONTACT US AT:  
 P.O. BOX 1237 - WENDEHAM, MA 01986 - PH: (508) 586-7410 - FAX: (508) 584-0571  
 WWW.CONCORDMAPEXRESS.COM