

**TEST PIT DATA:**

DATE OF TESTING: AUGUST 6, 2014  
 TEST BY: STAMSKI AND McNARY, INC.  
 CERT. SOIL EVAL.: WILLIAM HALL SET3592  
 WITNESSED BY: JACK WALLACE

**TEST PIT 5 DATA:**

DATE OF TESTING: NOVEMBER 6, 2013  
 TEST BY: STAMSKI AND McNARY, INC.  
 CERT. SOIL EVAL.: WILLIAM HALL SET3592  
 WITNESSED BY: JACK WALLACE

**PERC. TEST DATA:**

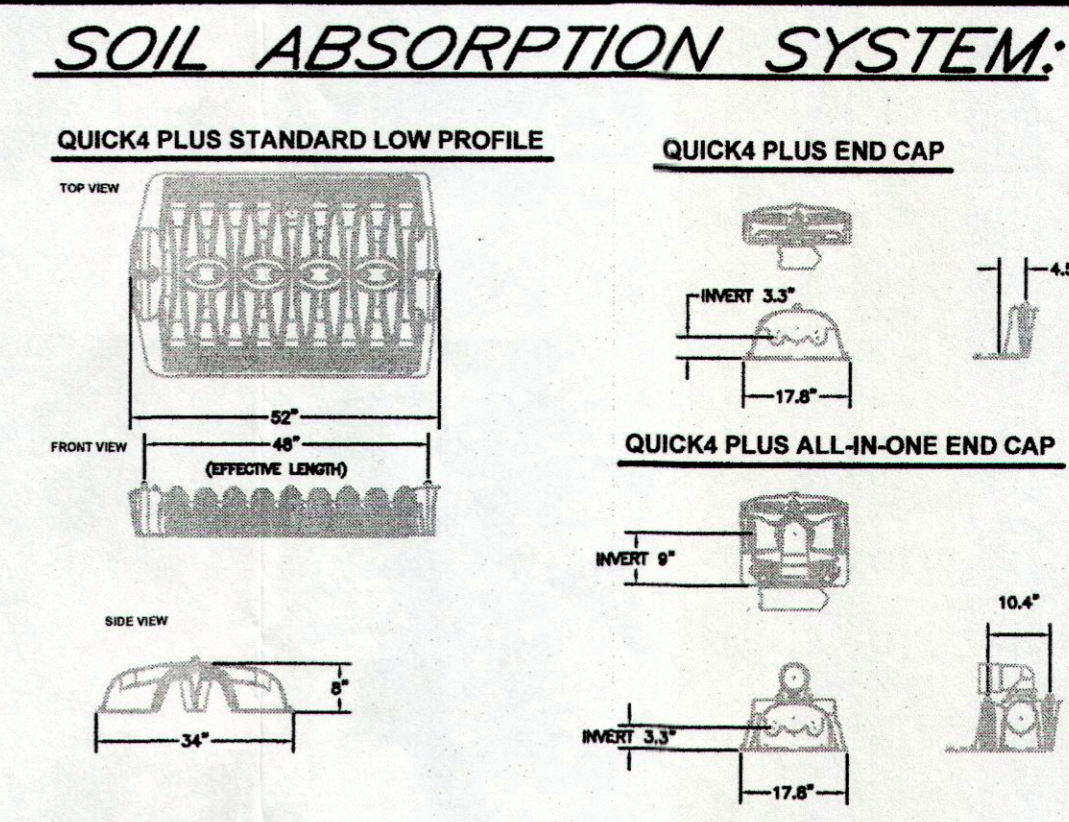
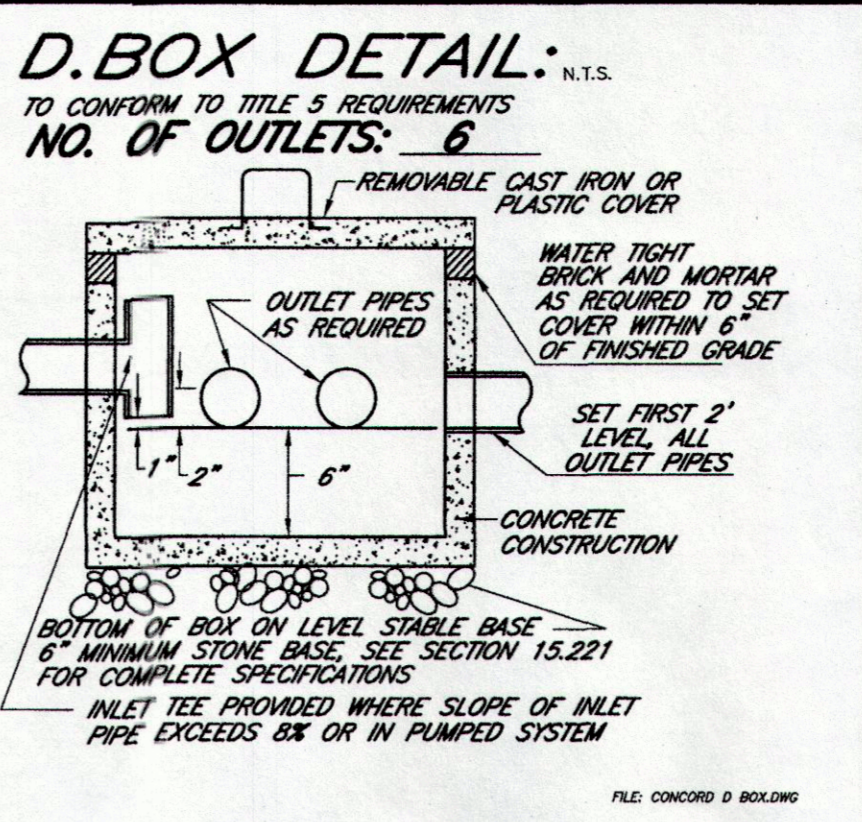
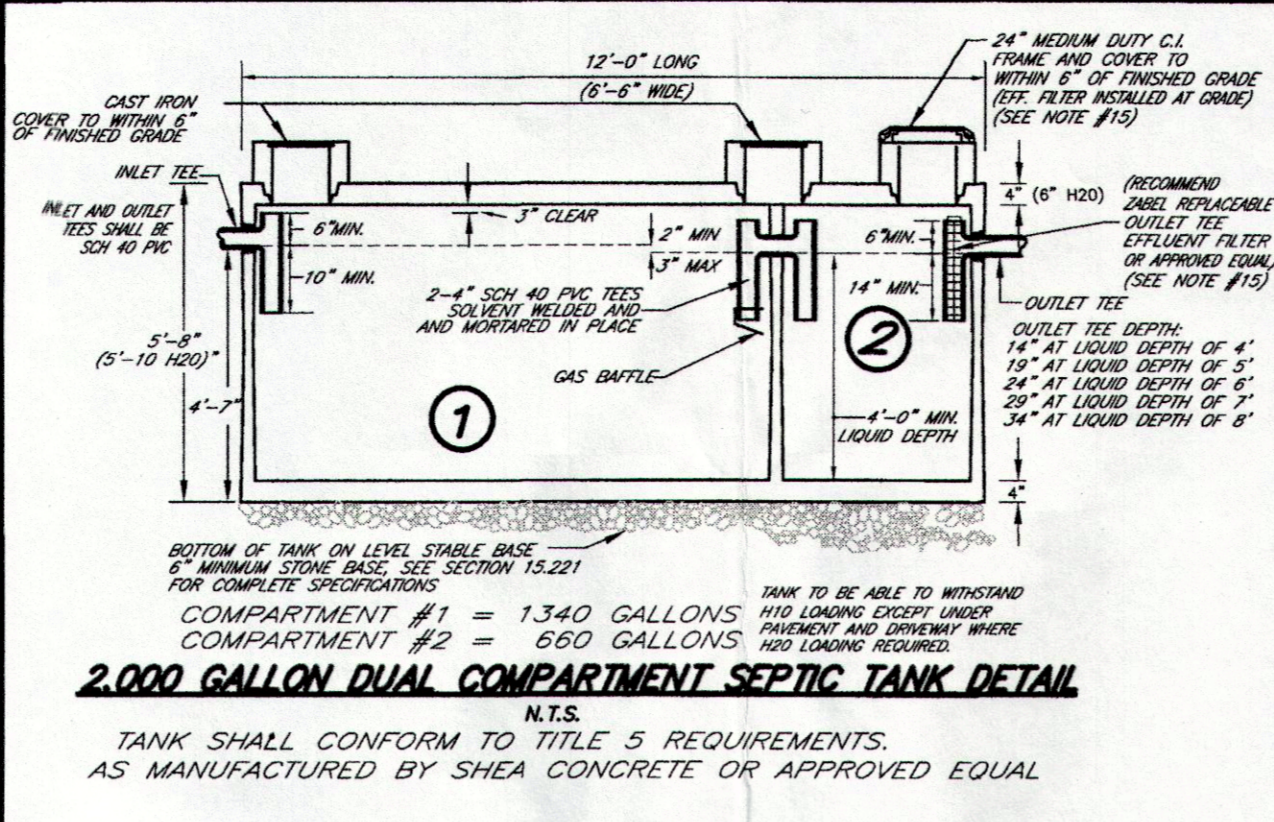
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PT-8-A  
 DEPTH OF TEST: 42"  
 RATE: 3 MPI

PT-8-B  
 DEPTH OF TEST: 48"  
 RATE: 10 MPI

PT-8-C  
 DEPTH OF TEST: 50"  
 RATE: 4 MPI

PT-8-D  
 DEPTH OF TEST: 48"  
 RATE: 14 MPI

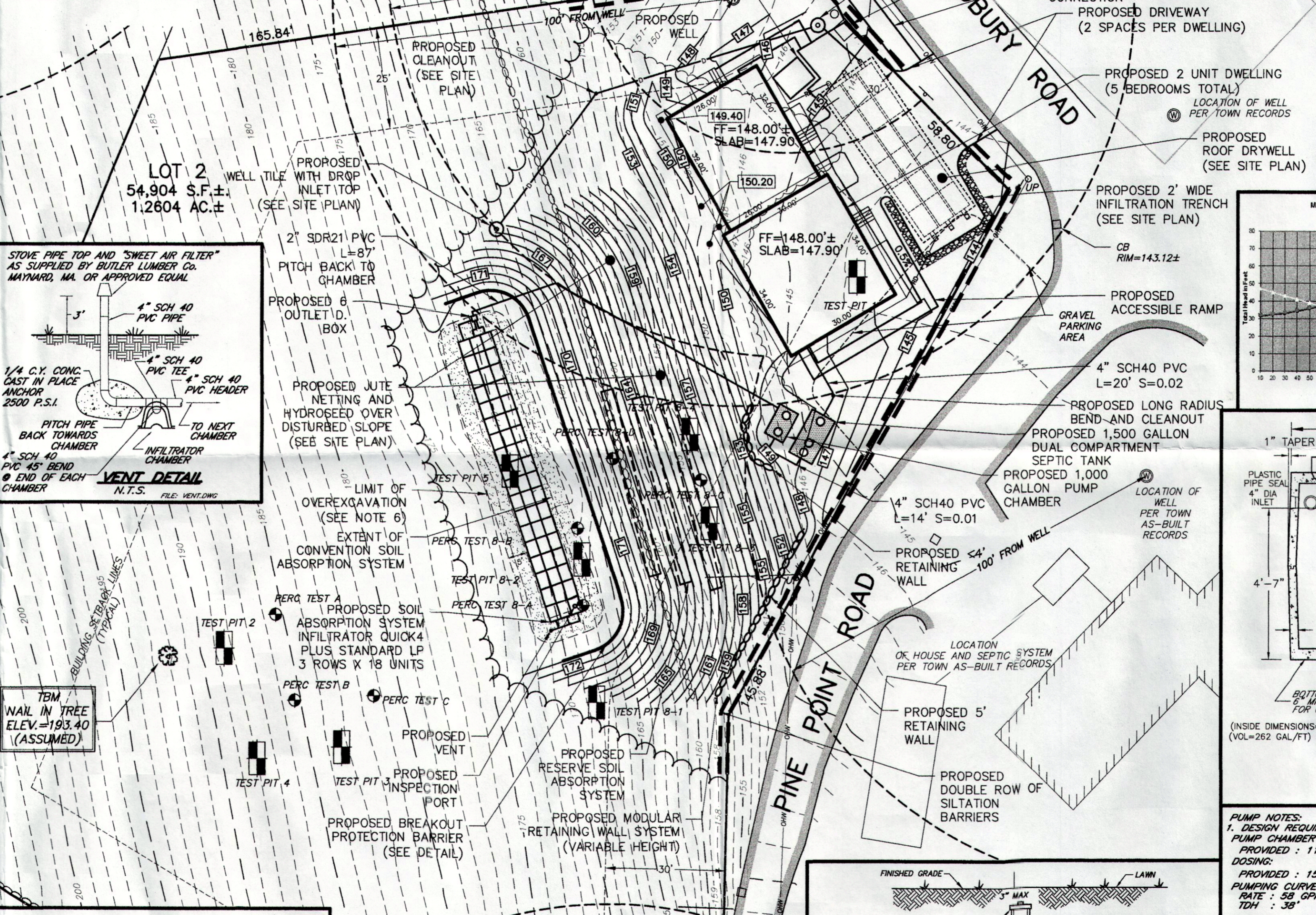


**NOTES:**

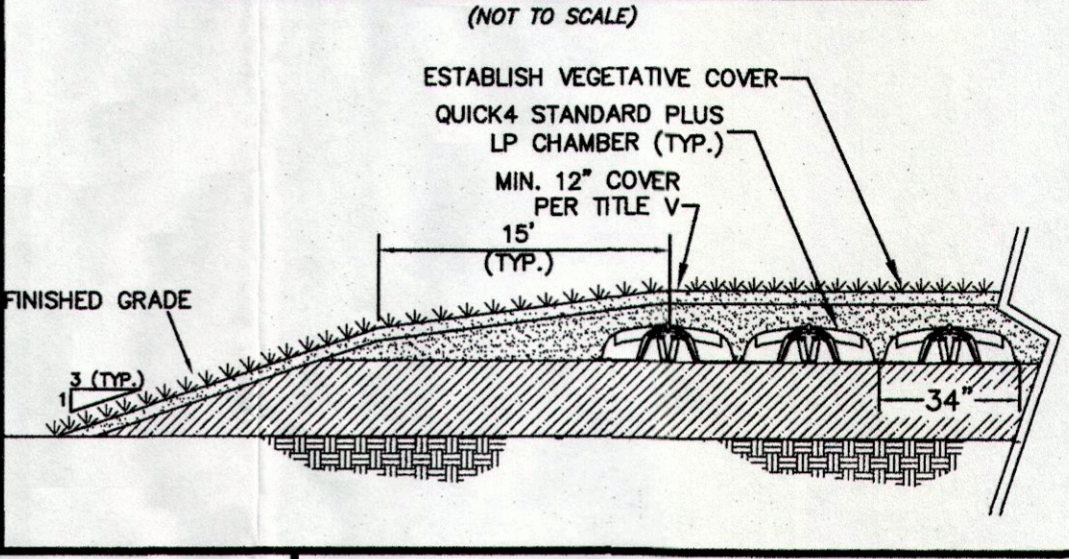
- THIS PLAN IS FOR THE DESIGN AND CONSTRUCTION OF A SEWAGE DISPOSAL FACILITY ONLY.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO TITLE 5.
- IF ALTERATIONS (REMOVAL OF VEGETATION, GRADING, EXCAVATIONS, ETC.) ARE TO BE MADE WITHIN 100 FT. OF WETLAND AREAS (PONDS, BROOKS, SWAMPS, ETC.) A REQUEST FOR DETERMINATION OF APPLICABILITY OF THE WETLANDS PROTECTION ACT (40 CFR 404) 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, SDR 21, ABS-SCHEDULE 40. 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 5 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 DISTRIBUTION BOX SHALL BE SET LEVEL.
- THE SYSTEM, INCLUDING SEPTIC TANK, 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.C. 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.
- SEWER MANHOLES BROUGHT TO FINISH GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.
- ZABEL EFFLUENT TEE FILTER SHALL BE 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".
- THE USE OF THIS PLAN IS SUBJECT TO THE ISSUANCE OF A COMPREHENSIVE PERMIT.
- LEACHING AREA SIZED PER TITLE 5.

**PLAN VIEW:**

SCALE: 1"=20'  
 RESIDENTIAL DISTRICT



**TYPICAL MOUND DETAIL WITH INFILTRATOR SYSTEMS CHAMBERS**



**INVERT ELEVATIONS:**

4" INV. @ BUILDING	= 145.40
4" INV. @ SEPTIC TANK (IN)	= 145.00
4" INV. @ SEPTIC TANK (OUT)	= 144.75
4" INV. @ PUMP CHAMBER (IN)	= 144.61
2" INV. @ PUMP CHAMBER (OUT)	= 144.36
2" INV. @ D.BOX (IN)	= 172.67
4" INV. @ D.BOX (OUT)	= 172.50
<b>AT LEACHING FACILITY:</b>	
INFILTRATOR QUICK4 PLUS STANDARD LP CHAMBERS (SET LEVEL)	
TOP OF CHAMBERS	= 172.67
4" INV. @ CHAMBERS	= 172.28
BOTTOM OF CHAMBERS	= 172.00

**DESIGN DATA:**

**DESIGN FLOW:**  
 PER TITLE 5:  
 5 BR. X 110 GPD/BR = 550 GPD  
 NO GARBAGE GRINDER ALLOWED

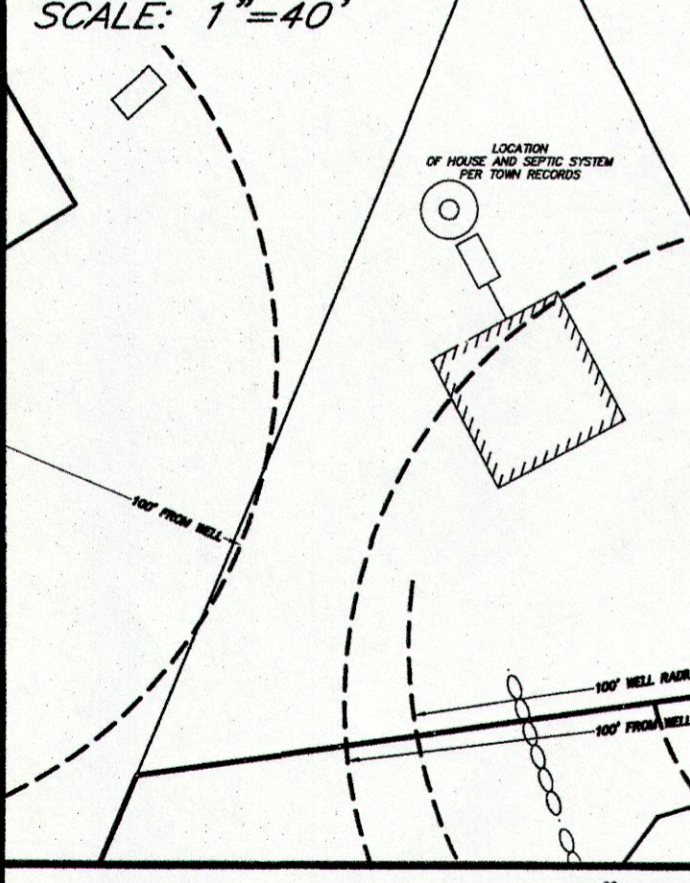
**REQUIRED SEPTIC TANK**  
 REQUIRED: 1100 GAL + 550 GAL  
 PROVIDED: 1340 GAL + 660 GAL  
**REQUIRED SIZE SOIL ABSORPTION SYSTEM (PRIMARY)**  
 PT-8D = 14 MPI CLASS II SOIL  
 550 GPD/0.56 GPD/S.F. = 983 S.F.  
 (NO GARBAGE DISPOSAL ALLOWED)

**TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:**  
**PRIMARY:**  
 INFILTRATOR QUICK4 PLUS STANDARD LP BED CONFIGURATION  
 54 SECTIONS X 4 LF/SECTION=216 LF  
 216 LF + 6 END CAPS X 0.4 LF/CAP=218.4 LF  
 218.4 LF X 4.73 SF/LF = 1,033 S.F.  
 1,033 S.F. > 983 S.F. O.K.  
 (4.73 SF/LF FROM TABLE 3, GENERAL USE APPROVAL, SEE NOTE 16)

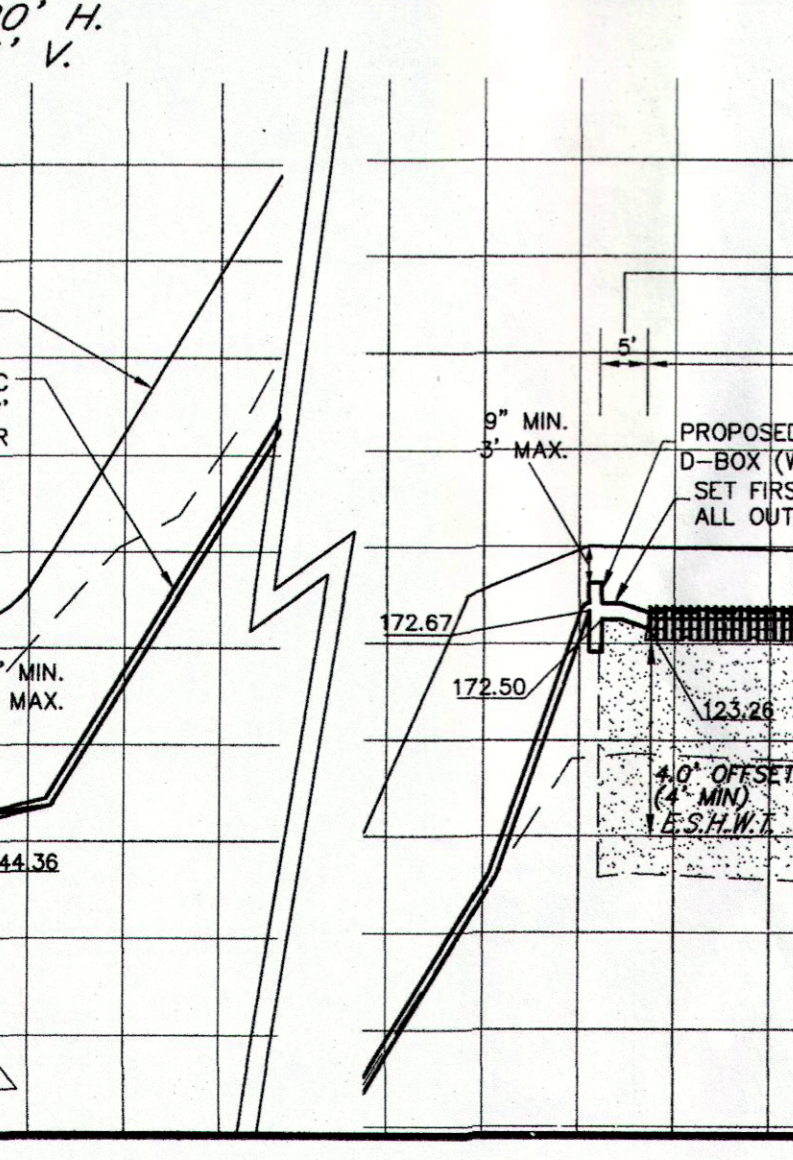
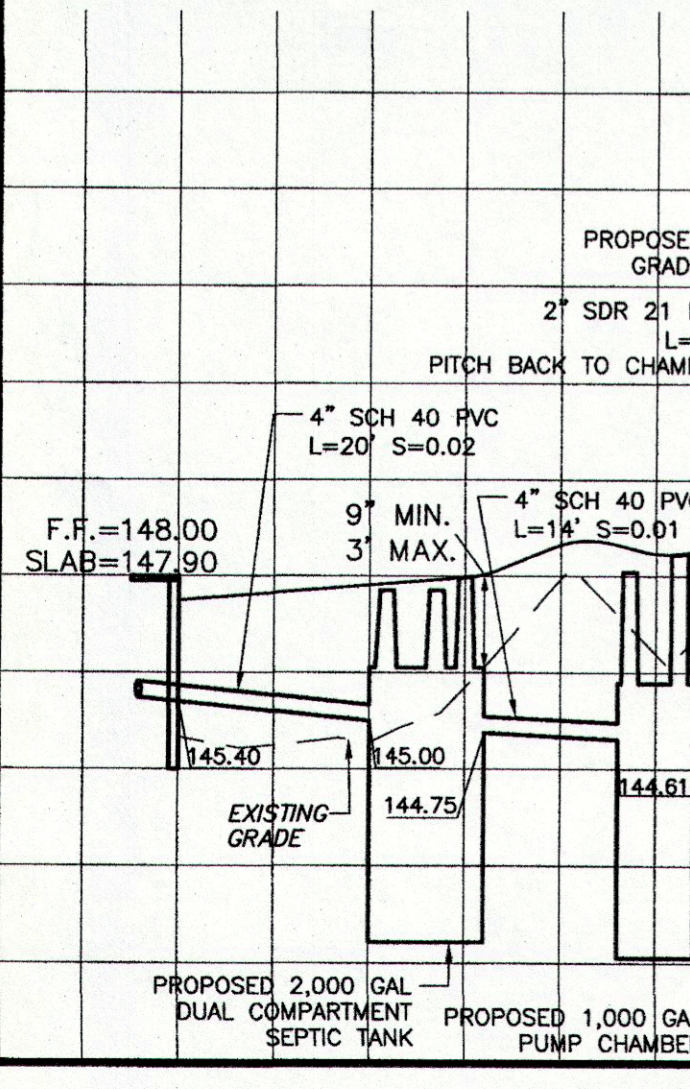
**TITLE 5:**  
 RESERVE  
 3 TRENCHES: 3'W x 2.0'D x 47'L  
 3 TRENCHES x 7 S.F. x 47' = 987 S.F.  
 987 S.F. > 983 S.F. O.K.

**CONVENTIONAL PRIMARY:**  
 2 TRENCHES: 3'W x 2.0'D x 71'L  
 2 TRENCHES x 7 S.F. x 71' = 994 S.F.  
 994 S.F. > 983 S.F. O.K.

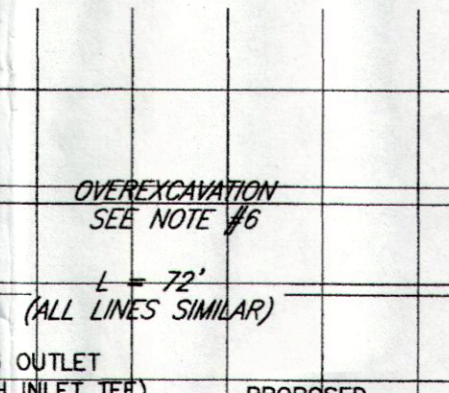
**NEIGHBORING SEPTIC PLAN**



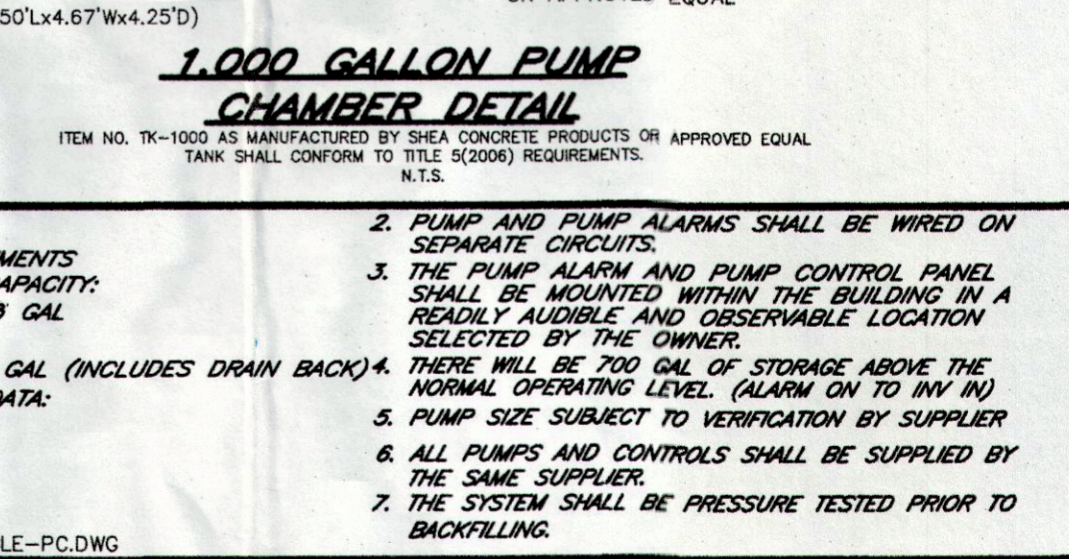
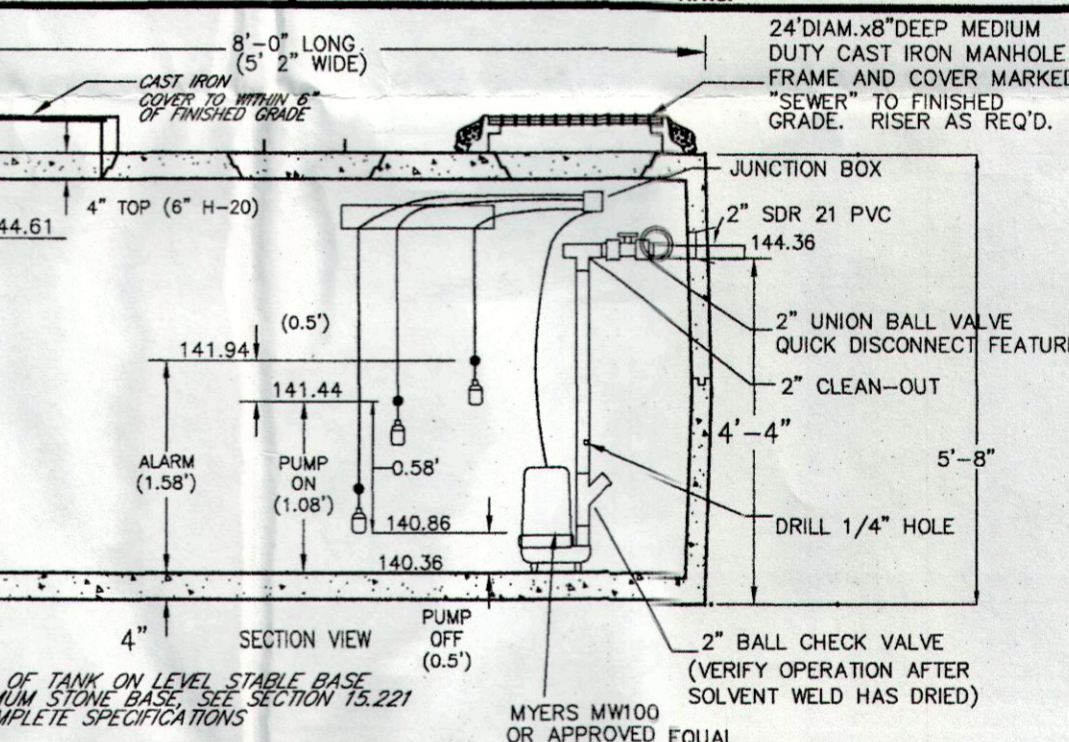
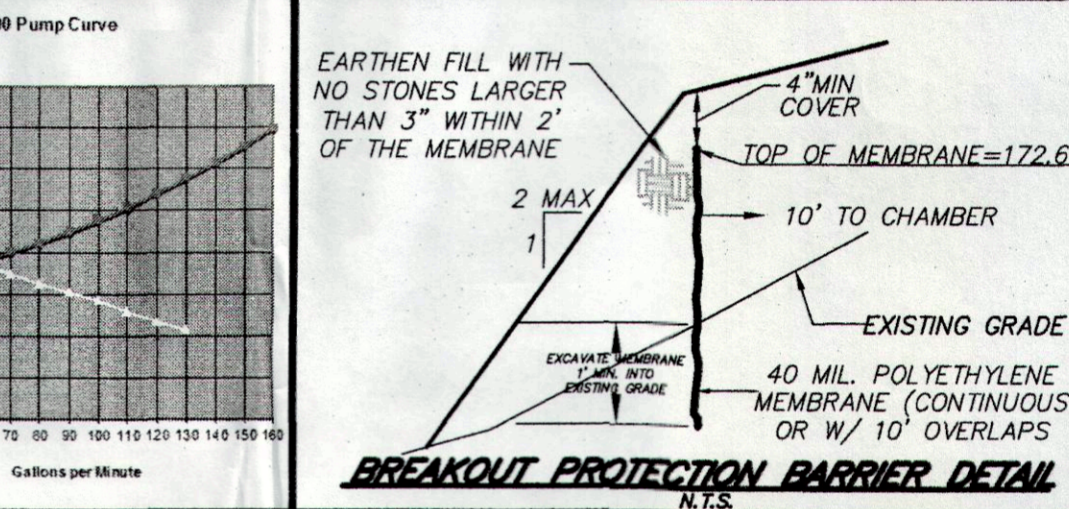
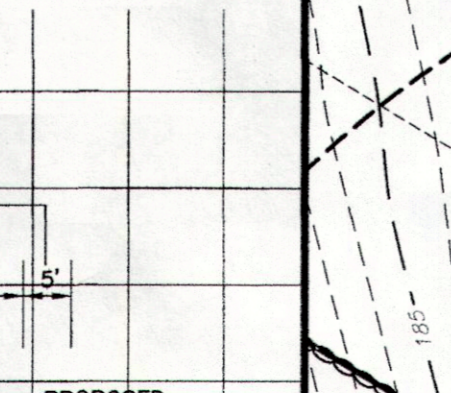
**PROFILE:** SCALE: 1"=20' H, 1"=4' V.



**INSPECTION PORT DETAIL**



**CLEANOUT DETAIL**



**SEWAGE DISPOSAL PLAN**

PREPARED FOR: HABITAT FOR HUMANITY  
 ADDRESS: 138 GREAT ROAD  
 ACTON, MA 01720

LOCATION: PINE POINT ROAD  
 MAP U-1, PARCEL 41  
 STOW, MA 01775

SCALE: AS SHOWN  
 DATE: OCTOBER 5, 2017  
 REVISED NOVEMBER 2, 2017 (SAS)  
 PREPARED BY:

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

DESIGNED BY: DJC DRAWN BY: DJC JOB NO. SM-5984 FILE: 5984 SDS.DWG

