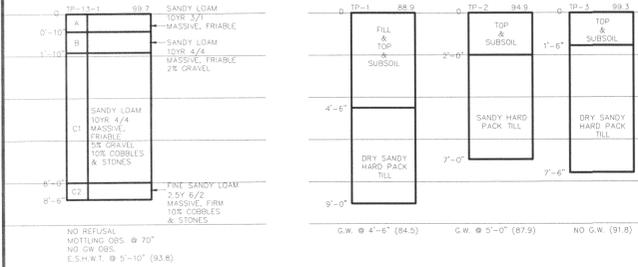


TEST PIT DATA:

DATE OF TESTING: 2/12/13
 TEST BY: STAMSKI AND McNARY, INC.
 CERT. SOIL EVAL.: BENJAMIN EWING (2005)
 WITNESSED BY: EVAN CARONI

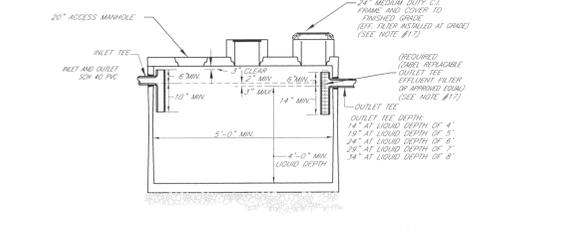
DATE OF TESTING: 4/18/91
 TEST BY: STAMSKI AND McNARY, INC.
 WITNESSED BY: DOUG HALLEY



PERC. TEST DATA:

DATE OF TESTING: 4/18/91
 CERT. SOIL EVAL.: CHARLES HARTWELL
 TEST BY: ABC CESSPOOL, INC.
 WITNESSED BY: BRENT REAGOR

P-A
 DEPTH OF TEST: 48"
 RATE: 11 MIN/IN



D.BOX DETAIL:

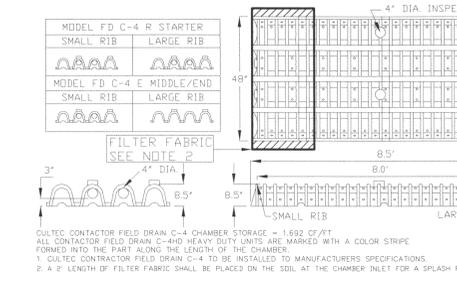
TO CONFORM TO TITLE 5 (2006) REQUIREMENTS
 NO. OF OUTLETS: 6

CONVERSION OF EXISTING PUMP CHAMBER TO SEPTIC TANK DETAIL

TANK SHALL CONFORM TO TITLE 5 (2006) REQUIREMENTS.
 N.T.S.

SOIL ABSORPTION SYSTEM:

CULTEC CONTACTOR FIELD DRAIN C-4



CULTEC CONTACTOR FIELD DRAIN C-4 CHAMBER STORAGE = 1.892 CY/FT
 ALL CONTACTOR FIELD DRAIN C-4 HIGH HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 1. CULTEC CONTACTOR FIELD DRAIN C-4 TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
 2. A 2' LENGTH OF FILTER FABRIC SHALL BE PLACED ON THE SOIL AT THE CHAMBER INLET FOR A SPLASH PAD.

LOCUS PLAN:



INVERT ELEVATIONS:

- EXISTING INVERTS**
 4" INV. @ SEPTIC TANK #2 (IN) = 89.10
 * CONTRACTOR TO VERIFY INVERT SEE NOTE #9
- PROPOSED INVERTS**
 4" INV. @ SEPTIC TANK #2 (OUT) = 88.85
 4" INV. @ PUMP CHAMB. (IN) = 88.75
 2" INV. @ PUMP CHAMB. (OUT) = 88.50
 2" INV. @ D.BOX (IN) = 98.51
 4" INV. @ D.BOX (OUT) = 98.34

AT LEACHING FACILITY:

- PRIMARY: CULTEC CHAMBERS (SET LEVEL)
 TOP OF CHAMBER = 98.51
 4" INV. @ BEGIN CHAMBER = 98.05
 BOTTOM CHAMBER = 97.80

DESIGN DATA:

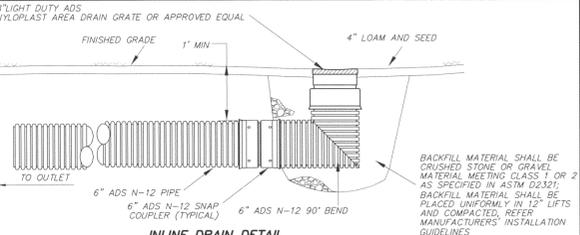
- DESIGN FLOW:**
 EXISTING
 4 BR. X 110 GPD/BR = 440 GPD
 NO GARBAGE GRINDER ALLOWED
 REQUIRED SEPTIC TANK: (TITLE 5)
 REQUIRED: = 1,500 GAL.
 PROVIDED: = 1,000 & 500 GAL. = 1,500 GAL.
- REQUIRED SIZE SOIL ABSORPTION SYSTEM:**
 P-A = 11 MIN./INCH
 TITLE 5, CLASS II SOIL
 440 GPD/0.56 GPD/S.F. = 786 S.F.
 ACTON BOH REQ. = 800 S.F. MIN.

TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:

- TITLE 5:**
 PRIMARY:
 CULTEC FIELD DRAIN CONTACTOR C-4
 EFFECTIVE LEACHING AREA PER L.F. = 1.67 x 4 FT = 6.67 S.F./L.F.
 1.67 x 4 FT = 6.67 S.F./L.F.
 15 UNITS @ 8' INSTALLED LENGTH
 120 L.F. x 6.67 S.F./L.F. = 801 S.F.
 801 S.F. > 786 S.F. OK
 ACTON BOH REQ. = 800 S.F. MIN.

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 ACTON BOARD OF HEALTH REGULATIONS.
- IF ALTERATIONS (REMOVAL OF VEGETATION, GRADING, EXCAVATIONS, ETC.) ARE TO BE MADE WITHIN 100 FEET 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 2665), 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.
- PER TITLE 5 REQUIREMENTS, THE DESIGN ENGINEER IS REQUIRED TO INSPECT THE 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 IN THE CONTRACT BETWEEN OWNER AND 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 EXISTING PUMP CHAMBER SHALL BE CONVERTED TO THE SECOND COMPARTMENT SEPTIC TANK. INSTALLER SHALL FIELD VERIFY ELEVATIONS PRIOR TO THE INSTALLATION OF THE SOIL ABSORPTION SYSTEM, D. BOX OR PUMP CHAMBER. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE PROCEEDING. CONTRACTOR SHALL VERIFY INTEGRITY OF TOP OF CHAMBER WITH ACCESS PORTS.
- 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
- EXISTING LEACHING FIELD MAY BE ABANDONED IN PLACE, UNLESS IT IS ENCOUNTERED IN EXCAVATION AT WHICH POINT STONE AND SOIL SHALL BE EXCAVATED AND REPLACED WITH SAND IN ACCORDANCE WITH TITLE V (2006) SECTION 15.255 "CONSTRUCTION IN FILL". SOIL SPOILS MAY BE PLACED AS GENERAL FILL WITH ONE FOOT OF COVER.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. (SEE 310 CMR 15.222)
- THE CULTEC SYSTEM HAS BEEN CERTIFIED FOR GENERAL USE. THIS SYSTEM SHALL BE INSTALLED AND OPERATED IN COMPLIANCE WITH THE MODIFIED CERTIFICATION FOR GENERAL USE REVISED FEBRUARY 22, 2010.
- ALL DISTURBED SURFACES SHALL BE RESTORED WITH 4" OF LOAM AND SEED.
- THIS SEPTIC SYSTEM IS NOT DESIGNED FOR A GARBAGE GRINDER.
- 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".
- 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 (2006) SECTION 15.255 "CONSTRUCTION IN FILL".
- 1/2 CUBIC YARD (CY) THRUST BLOCKING SHALL BE PROVIDED AT ALL BENDS IN THE FORCE MAIN BETWEEN THE PUMP CHAMBER TO THE D. BOX.



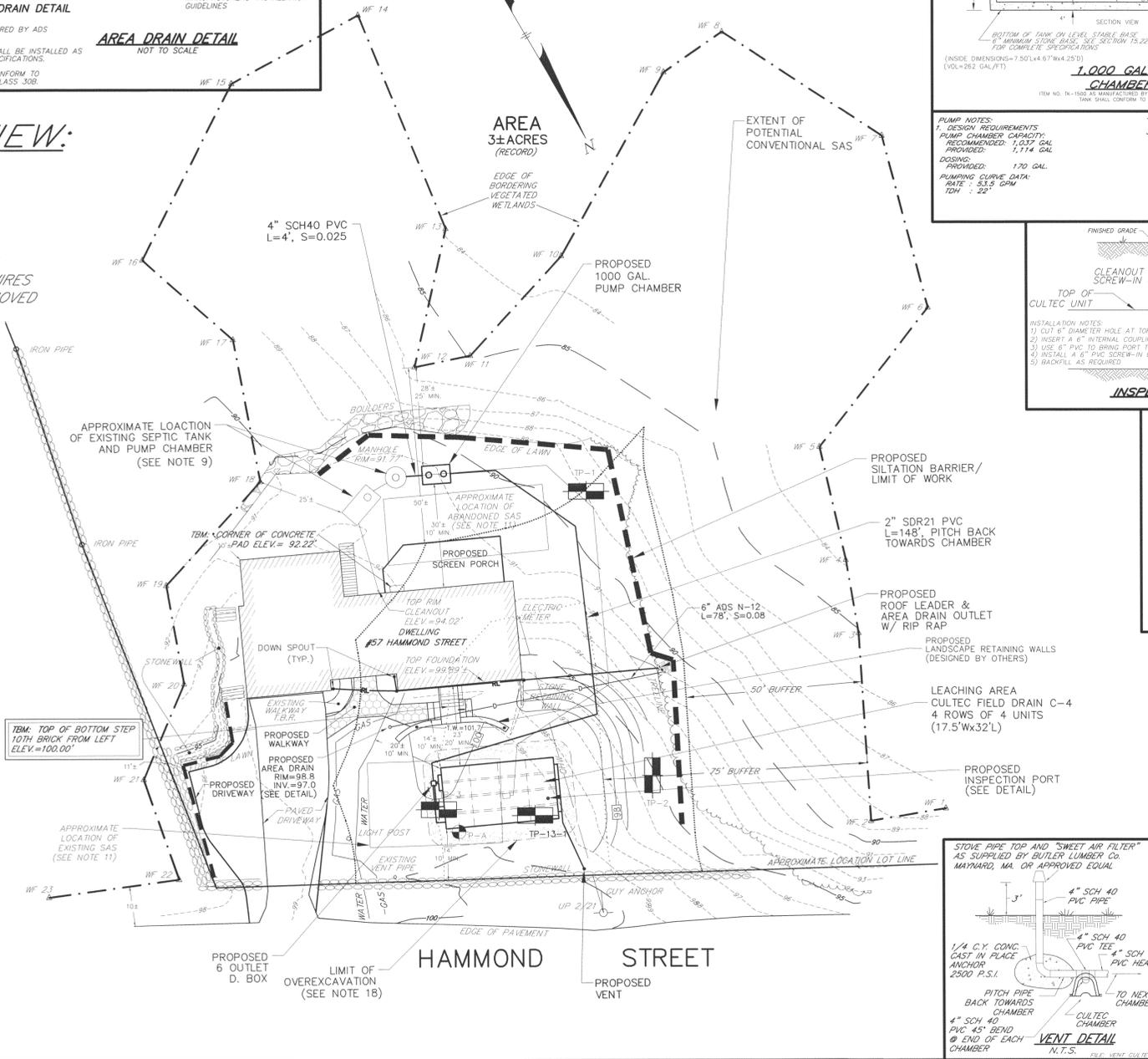
- NOTES:**
- INLINE DRAINS SHALL BE AS MANUFACTURED BY ADS OR APPROVED EQUAL.
 - INLINE DRAINS, GRATES AND FRAMES SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S SPECIFICATIONS.
 - GRATE AND FRAME MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-30-05 & A48-CLASS 308.

PLAN VIEW:

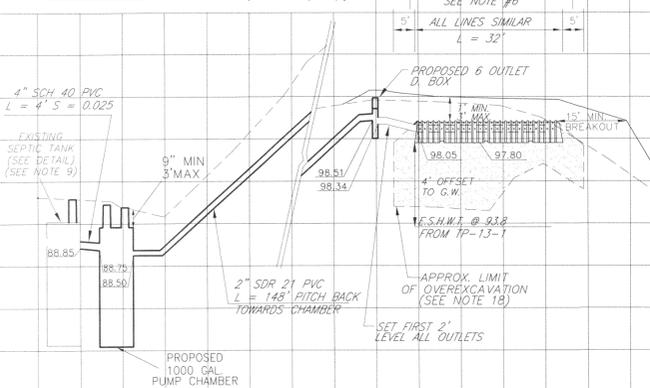
SCALE: 1" = 20'
 G.W.P.D. ZONE 4

LEGEND:

- RL = ROOF LEADER
 U.P. = UTILITY POLE
 OHW = OVERHEAD WIRES
 T.B.R. = TO BE REMOVED



PROFILE:



SEWAGE DISPOSAL PLAN

PREPARED FOR: LYNETTE FOUSER & DALE CUMMING
 ADDRESS: 57 HAMMOND STREET
 ACTON, MA 01720
 (978) 263-7446

LOCATION: 57 HAMMOND STREET
 ACTON, MA 01720
 ASSESSORS MAP D3, PARCEL 35

SCALE: AS SHOWN
 DATE: JULY 23, 2013

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

DESIGNED BY: BRE. DRAWN BY: BRE. JOB NO. SM-1073A FILE: 1073A SDS.DWG

