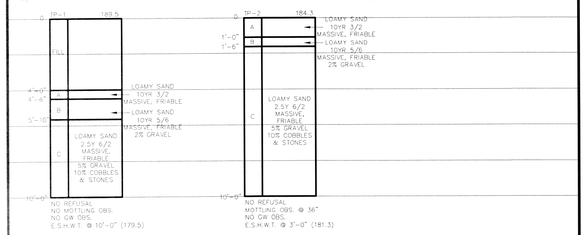
TEST PIT DATA:

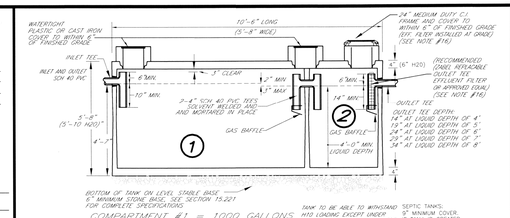
DATE OF TESTING: 8/16/2013
TEST BY: STAMSKI AND MCNARY, INC.
CERT. SOIL EVAL.: BENJAMIN EWING (2005)
WITNESSED BY: EVAN CARLONI



PERC. TEST DATA:

DATE OF TESTING: 8/16/2013
CERT. SOIL EVAL.: BENJAMIN EWING
TEST BY: STAMSKI AND MCNARY, INC.
WITNESSED BY: EVAN CARLONI

PT-11-A
DEPTH OF TEST: 43"
RATE: 4 MIN/IN



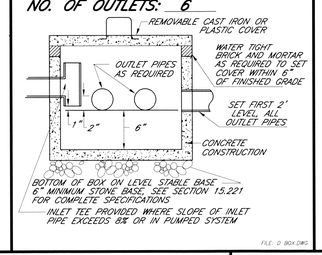
COMPARTMENT #1 = 1000 GALLONS
COMPARTMENT #2 = 500 GALLONS

1500 GALLON DUAL COMPARTMENT SEPTIC TANK DETAIL

TANK SHALL CONFORM TO TITLE 5(2006) REQUIREMENTS.
N.T.S.
AS MANUFACTURED BY SHEA CONCRETE OR APPROVED EQUAL
FILE: 2000-Septic Tank-DC.DWG

D.BOX DETAIL:

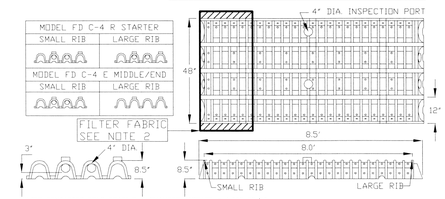
N.T.S.
TO CONFORM TO TITLE 5 (2006) REQUIREMENTS
NO. OF OUTLETS: 6



FILE: D BOX.DWG

SOIL ABSORPTION SYSTEM:

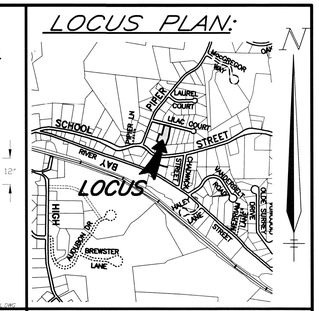
CULTEC CONTACTOR FIELD DRAIN C-4



CULTEC CONTACTOR FIELD DRAIN C-4 CHAMBER STORAGE = 1.692 CF/FT.
ALL CONTACTOR FIELD DRAIN C-4HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
1. CULTEC CONTRACTOR FIELD DRAIN C-4 TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
2. A 2' LENGTH OF FILTER FABRIC SHALL BE PLACED ON THE SOIL AT THE CHAMBER INLET FOR A SPLASH PAD.

FILE: C-4 DETAIL.DWG

LOCUS PLAN:



NOTES:

1. THIS PLAN IS FOR THE DESIGN AND CONSTRUCTION OF A SEWAGE DISPOSAL FACILITY ONLY.

2. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO TITLE 5 AND THE ACTON BOARD OF HEALTH REGULATIONS.

3. 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.

4. 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.

5. UNLESS OTHERWISE SHOWN, THERE ARE NO KNOWN WELLS WITHIN 150' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.

6. 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.

7. FINISHED GRADE OVER THE LEACHING AREA SHALL HAVE A MINIMUM SLOPE OF 2%.

8. THE FIRST TWO FOOT SECTIONS OF PIPE FROM THE D. BOX SHALL BE SET LEVEL.

9. 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

10. 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. THE EXISTING SEPTIC TANK SHALL HAVE ITS CONTENTS PUMPED, ITS BOTTOM RUPTURED AND BACKFILLED WITH CLEAN SAND IN ACCORDANCE WITH TITLE V; SECTION 15.354 ABANDONMENT OF SYSTEMS.

11. 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)

12. 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.

13. ALL DISTURBED SURFACES SHALL BE RESTORED WITH 4" OF LOAM AND SEED.

14. THIS SEPTIC SYSTEM IS NOT DESIGNED FOR A GARBAGE GRINDER.

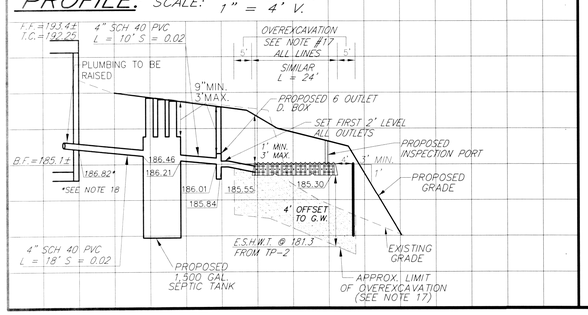
15. SEWER MANHOLES BROUGHT TO FINISH GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.

16. IF ZABEL EFFLUENT TEE FILTER IS INSTALLED IT 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".

17. 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".

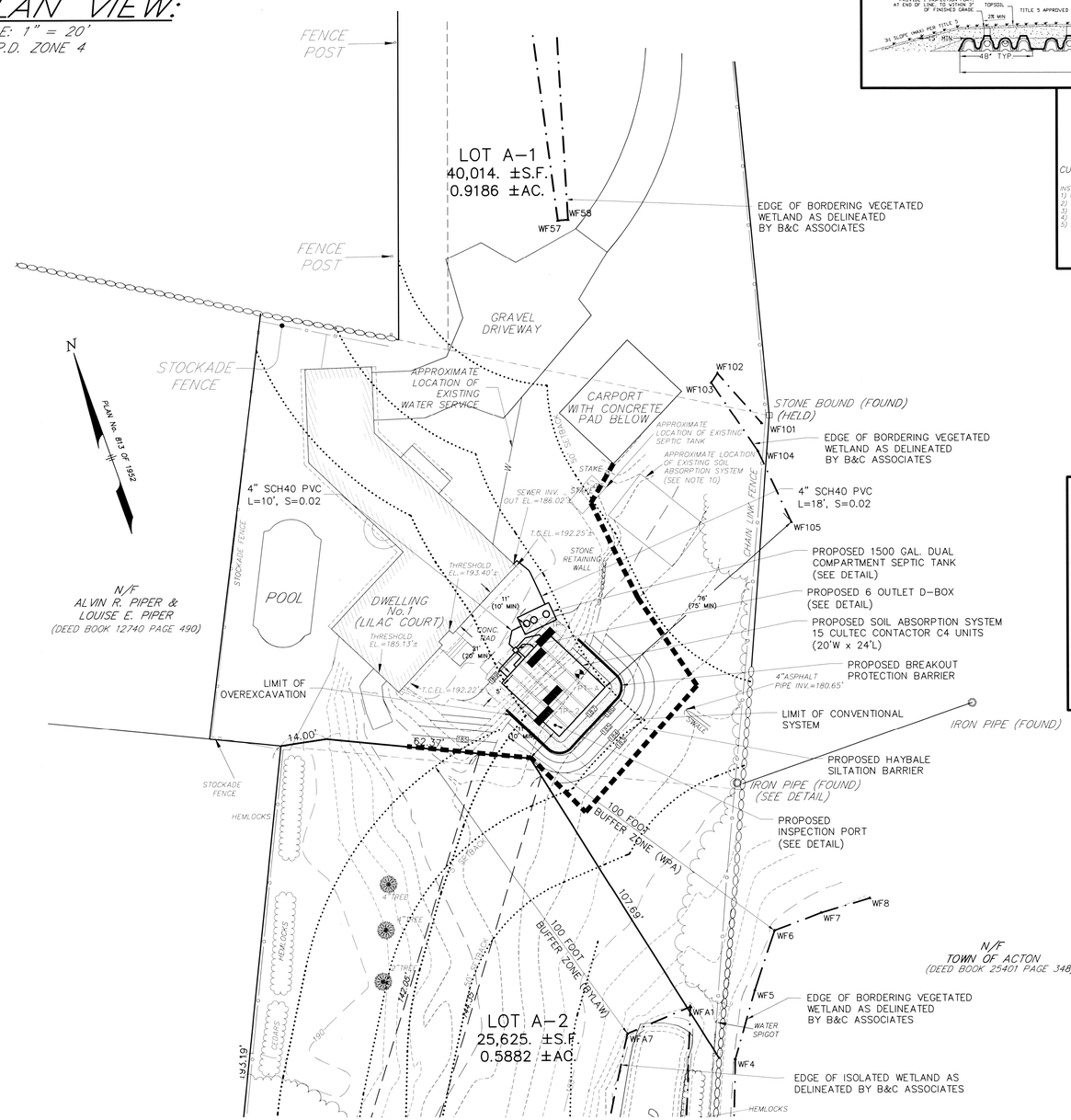
18. CONTRACTOR SHALL VERIFY EXISTING BUILDING SEWER INVERT PRIOR TO CONSTRUCTION OF THE PROPOSED SOIL ABSORPTION SYSTEM, DISTRIBUTION BOX AND SEPTIC TANK. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER.

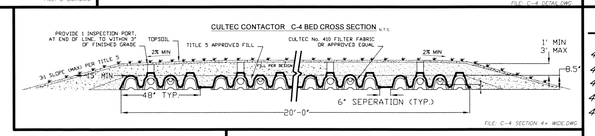
PROFILE: SCALE: 1" = 20' H. 1" = 4' V.



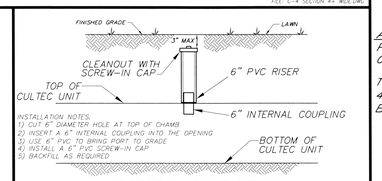
PLAN VIEW:

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



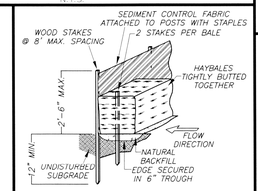


FILE: C-4 SECTION 4+ WIDE.DWG



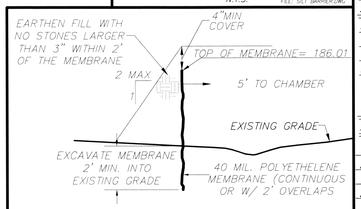
INSPECTION PORT DETAIL

N.T.S.



SILTATION BARRIER DETAIL

N.T.S. FILE: SILT BARRIER.DWG



BREAKOUT PROTECTION BARRIER DETAIL

N.T.S. FILE: BREAKOUT BARRIER.DWG

INVERT ELEVATIONS:

4" INV. @ BUILDING (PROPOSED) = 186.82
4" INV. @ SEPTIC TANK (IN) = 186.46
4" INV. @ SEPTIC TANK (OUT) = 186.21
4" INV. @ D.BOX (IN) = 186.01
4" INV. @ D.BOX (OUT) = 185.84

AT LEACHING FACILITY:
PRIMARY:
CULTEC CHAMBER (SET LEVEL)

TOP CHAMBERS = 186.01
4" INV. @ BEGIN CHAMBERS = 185.55
BOTTOM CHAMBERS = 185.30

DESIGN DATA:

DESIGN FLOW:

4 BR. X 110 GPD/BR = 440 GPD
NO GARBAGE GRINDER ALLOWED
REQUIRED SEPTIC TANK: (TITLE 5)
REQUIRED: = 880 & 440 GAL. =1,320 GAL.
PROVIDED: = 1,000 & 500 GAL. =1,500 GAL.

REQUIRED SIZE SOIL ABSORPTION SYSTEM:
PT A = 4 MIN./INCH
TITLE 5: CLASS I SOIL
440 GPD/0.74 GPD/S.F.=595 S.F.
ACTON BOH REQ. = 800 S.F. MIN.

TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:

TITLE 5:
PRIMARY LEACHFIELD:
CULTEC FIELD DRAIN CONTRACTOR C4
EFFECTIVE LEACHING AREA PER L.F.=
1.67 x BOTTOM WIDTH (SEE NOTE 12)
1.67 x 4 FT = 6.67 S.F./L.F.
120 L.F. x 6.67 S.F./L.F.=801 S.F.
801 S.F. > 800 S.F. O.K.

SEWAGE DISPOSAL PLAN

PREPARED FOR: PAM STEVENS
ADDRESS: 92 HEATHER CIRCLE
JEFFERSON, MA 01522
(508) 829-0606

LOCATION: 1 LILAC COURT
ACTON, MA 01720
ASSESSORS MAP H4, PARCEL 58

SCALE: AS SHOWN
DATE: SEPTEMBER 17, 2013

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

COMMONWEALTH OF MASSACHUSETTS GEORGE DIMAKARAKOS CIVIL No. 41281 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: WJH DRAWN BY: WJH JOB No. SM-4466A FILE: 4466A-SDS.DWG