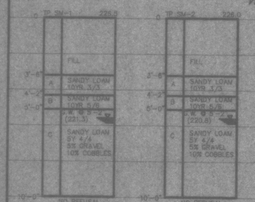
TEST PIT DATA:

DATE OF TESTING: 3/2/00
TEST BY: STAMSKI & MCNARY, INC.
CERT. SOIL EVAL.: GEORGE DIMAKARAKOS
WITNESSED BY: DIANE PANTERMOLLER

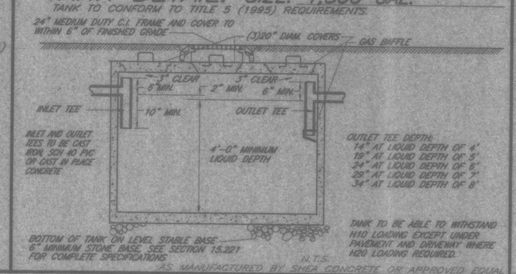


PERC. TEST DATA:

PERC. A
RATE: 6 MPI (BOH. RECORDS)

TANK DETAIL: SIZE: 1,500 GAL.

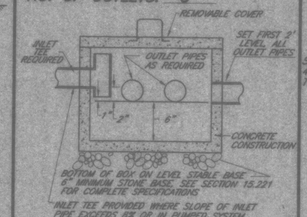
TANK TO CONFORM TO TITLE 5 (1995) REQUIREMENTS.



AS MANUFACTURED BY SHEA CONCRETE OR APPROVED EQUAL

D.BOX DETAIL:

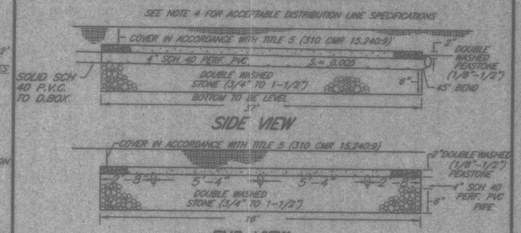
TO CONFORM TO TITLE 5 (1995) REQUIREMENTS
NO. OF OUTLETS: 6



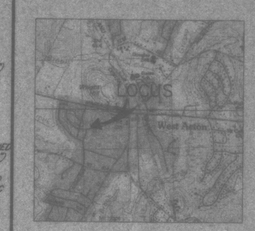
AS MANUFACTURED BY SHEA CONCRETE OR APPROVED EQUAL

SOIL ABSORPTION SYSTEM:

SEE NOTE 4 FOR ACCEPTABLE DISTRIBUTION LINE SPECIFICATIONS

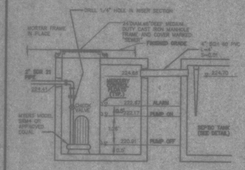


LOCUS PLAN:



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 (c.131, s40A) SHOULD BE FILED WITH THE TOWNS' 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 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 DISPOSAL FIELDS.
   SCHEDULE 40 PVC SHALL BE USED IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
5. UNLESS OTHERWISE SHOWN, THERE ARE NO KNOWN WELLS WITHIN 200 FEET OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
6. ALL TOP AND SUBSOIL UNDER AND WITHIN 5 FEET OF THE PROPOSED LEACHING TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL ACCORDING TO TITLE 5 (1995) SECTION 15.255 "CONSTRICTION IN FILL".
7. 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 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.
8. FINISHED GRADE OVER THE LEACHING AREA SHALL HAVE A MINIMUM SLOPE OF 2%
9. THE FIRST TWO FOOT SECTIONS OF PIPE FROM THE D–BOX SHALL BE SET LEVEL.
10. THE SYSTEM SHALL BE STAKED AND BENCHMARK SET IN THE FIELD BY THE DESIGN ENGINEER.
11. THE VENT PIPE MAY BE RELOCATED AT THE OWNER'S REQUEST.
12. THIS PLAN REQUIRES THE FOLLOWING LOCAL UPGRADE APPROVAL FROM TITLE 5
    SECTION 15.405(1)(b)
    REDUCTION OF SETBACK TO CELLAR WALL: 20' REQUIRED (11' PROVIDED)
    ACTON BOARD OF HEALTH RULES AND REGULATIONS
    REGULATION 11–9.1 MINIMUM REQUIREMENTS OF LEACHING FACILITIES
    900 SF REQUIRED (592 PROVIDED PER TITLE 5 REQUIREMENTS)
    REGULATION 11–9.6 MINIMUM DEPTH OF STONE 12" REQUIRED (6" PROVIDED)
    REGULATION 16–6.2.7 DISTANCE TO WETLANDS: 100' REQUIRED (85' PROVIDED)
13. EXISTING SEPTIC TANK SHALL BE REMOVED FROM SITE. EXISTING LEACHING AREA AND CONTAMINATED ADJACENT SOIL SHALL BE EXCAVATED AND REPLACE WITH SUITABLE MATERIAL IN ACCORDANCE WITH NOTE 6.



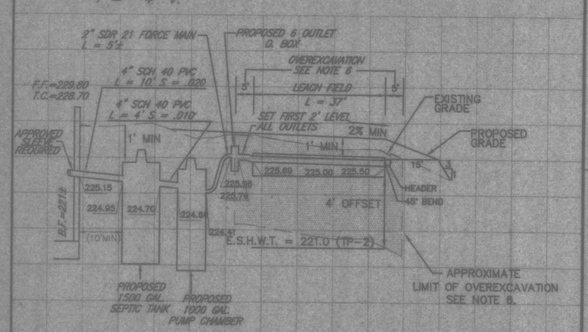
DOSING CHAMBER DETAIL
N.T.S.
1000 GAL. SEPTIC TANK

PUMP NOTES:

1. DESIGN REQUIREMENTS
   DOSING CHAMBER CAPACITY:
   REQ'D : 922 GAL
   PROVIDED : 1000 GAL
   DOSING:
   REQ'D : 330 GAL (1 DOSES/DAY)
   PROVIDED : 330 GAL
   PUMPING CURVE DATA:
   RATE : 27 GPM
   TDH : 9'
2. PUMP AND PUMP ALARM SHALL BE WIRED ON SEPARATE CIRCUITS.
3. THE PUMP ALARM AND PUMP CONTROL PANEL SHALL BE MOUNTED WITHIN THE DWELLING IN A READILY AUDIBLE AND OBSERVABLE LOCATION SELECTED BY THE OWNER.
4. THERE WILL BE 523 GAL OF STORAGE ABOVE THE "ALARM" LEVEL.

PROFILE:

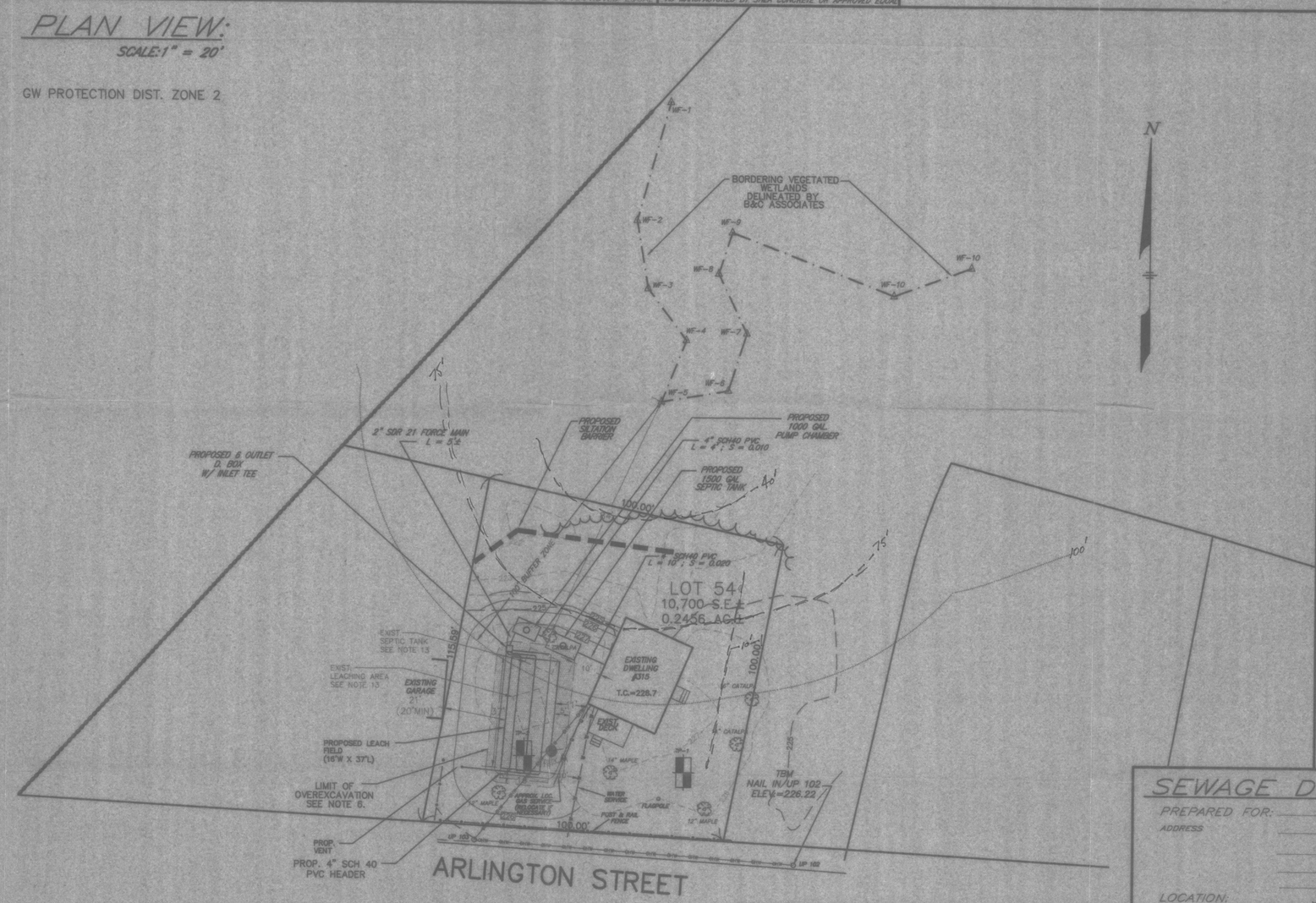
SCALE: 1" = 20' H.
1" = 4' V.

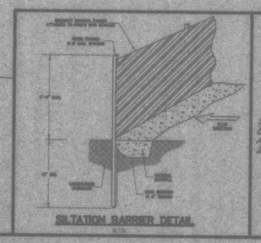


PLAN VIEW:

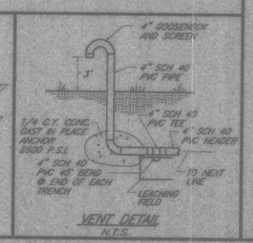
SCALE: 1" = 20'

GW PROTECTION DIST. ZONE 2





SILTATION BARRIER DETAIL
N.T.S.



VENT DETAIL
N.T.S.

INVERT ELEVATIONS:

4" INV. @ BUILDING (EXISTING)	=	225.15
4" INV. @ SEPTIC TANK (IN)	=	224.95
4" INV. @ SEPTIC TANK (OUT)	=	224.70
4" INV. @ PUMP CHAMB. (IN)	=	224.66
2" INV. @ PUMP CHAMB. (OUT)	=	224.41
2" INV. @ D.BOX (IN)	=	225.96
4" INV. @ D.BOX (OUT)	=	225.79
AT LEACHING FACILITY		
4" INV. @ BEGIN. LINES	=	225.69
4" INV. @ END LINES	=	225.50
BOTTOM STONE	=	225.00

DESIGN DATA:

DESIGN FLOW:

3 BR. X 110 GPD/BR = 330 GPD
NOT DESIGNED FOR GARBAGE GRINDER

REQUIRED SEPTIC TANK:

REQUIRED: 1500 GAL
PROVIDED: 1500 GAL

REQUIRED SIZE SOIL ABSORPTION SYSTEM:

ACTON BOH REGULATIONS
330 GPD/0.56 GPD/S.F. = 589 S.F.

TITLE 5 REQUIREMENTS
330 GPD/0.60 GPD/S.F. = 550 S.F.

TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:

LEACH FIELD: 16' W X 37' L
= 592 SF > 589 SF. O.K.

SEWAGE DISPOSAL PLAN

PREPARED FOR: ELSIE BENSON
ADDRESS: C/O KENNETH SUNDBERG
20 HENLEY ROAD
ACTON, MA
263–1327

LOCATION: 315 ARLINGTON STREET
ACTON, MA
MAP F–1 PARCEL 54

SCALE: AS SHOWN
DATE: APRIL 10, 2000

PREPARED BY:
STAMSKI AND McNARY, INC.
CIVIL ENGINEERS LAND SURVEYORS
80 HARRIS STREET – ACTON, MA 01720

JOSEPH MARCH CIVIL 24047

DESIGNED BY: ERS DRAWN BY: ERS JOB No. SM–2827 FILE: 2627SDS.DWG

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