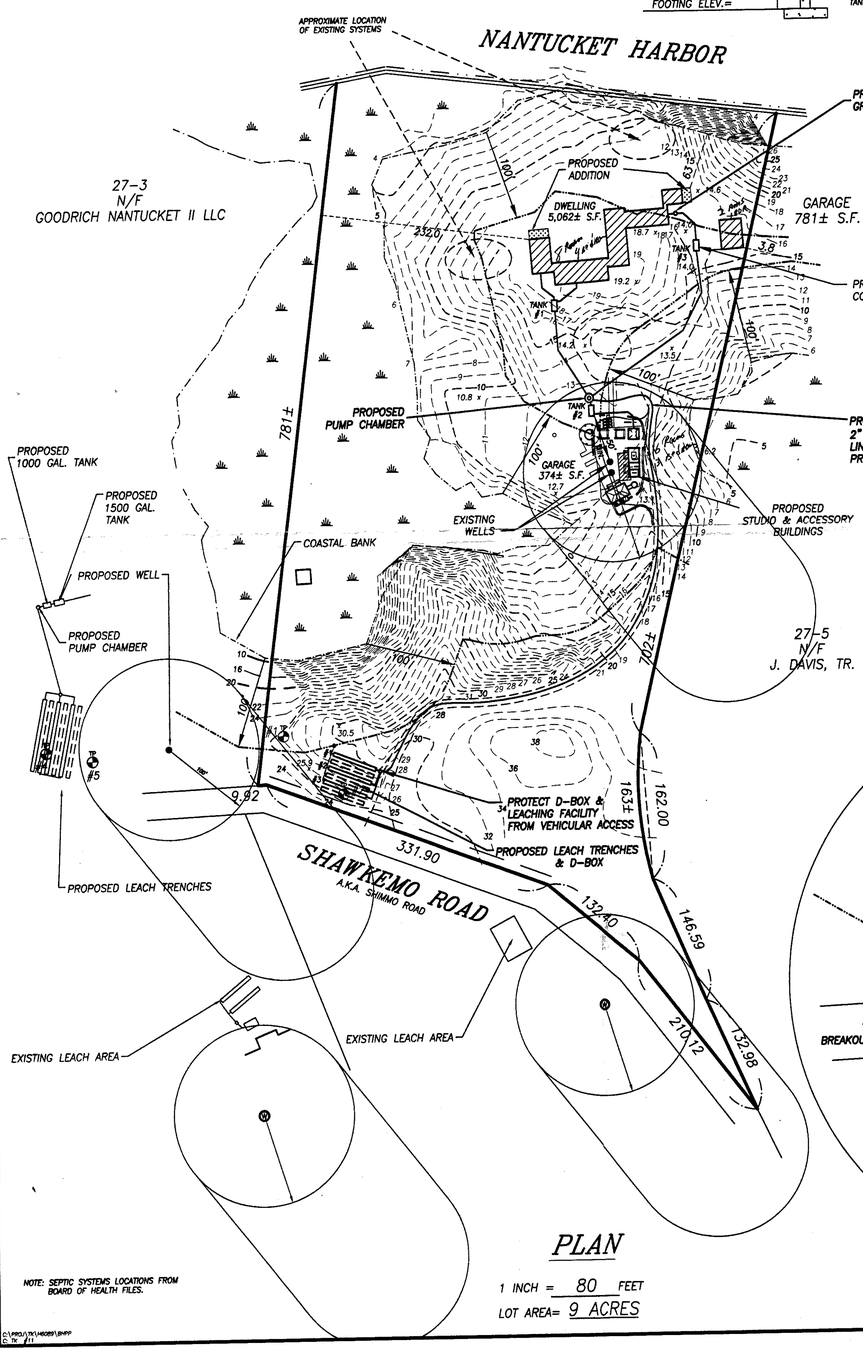
LEGEND

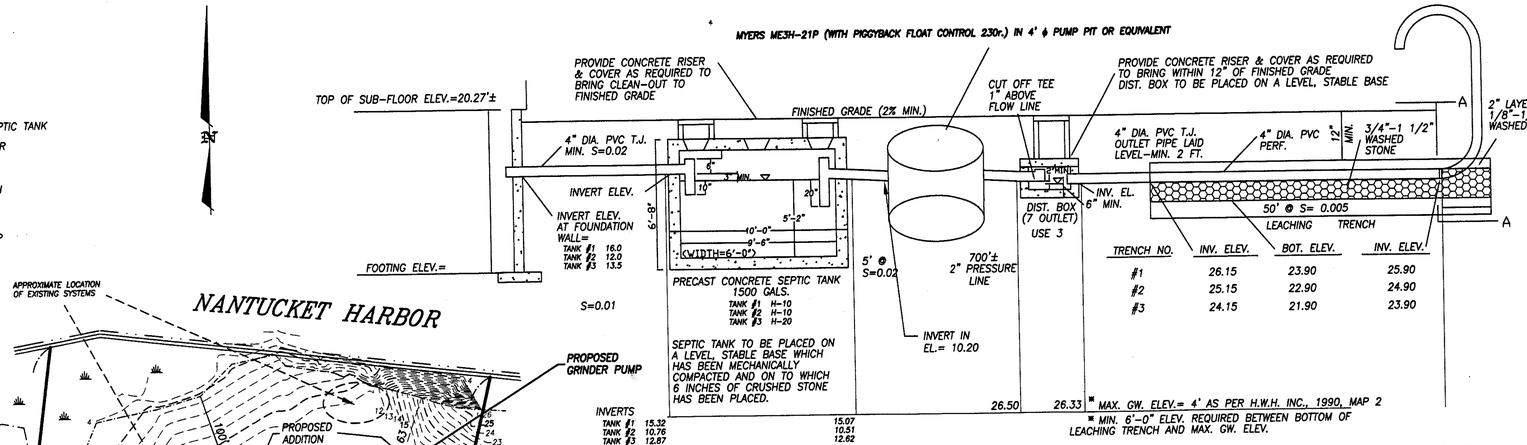
- 98 — — — EXISTING CONTOUR
- 98 PROPOSED CONTOUR
- DEEP OBS. HOLE & PERC TEST LOCATION
- PROPOSED 2000 GAL. SEPTIC TANK
- PROPOSED PUMP CHAMBER
- PROPOSED D-BOX
- #1 PROPOSED LEACH TRENCH
- PRPOSED RESERVE AREA
- PROPOSED GRINDER PUMP



PLAN

1 INCH = 80 FEET

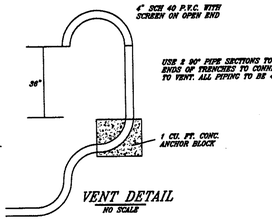
LOT AREA= 9 ACRES



TRENCH NO.	INV. ELEV.	BOT. ELEV.	INV. ELEV.
#1	26.15	23.90	25.90
#2	25.15	22.90	24.90
#3	24.15	21.90	23.90

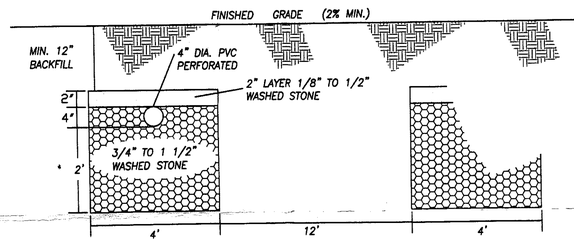
SEWER SYSTEM PROFILE

NO SCALE



VENT DETAIL

NO SCALE



LEACHING TRENCH SECTION A-A

NO SCALE

GENERAL NOTES

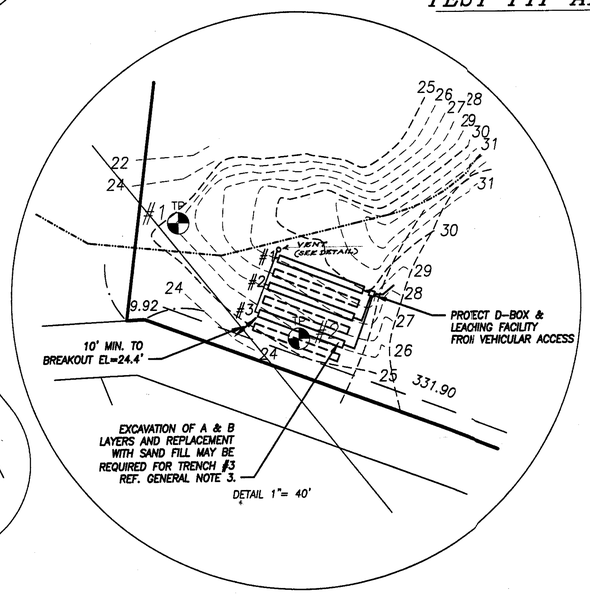
1. ALL CONSTRUCTION TO CONFORM TO TITLE 5 OF MASSACHUSETTS STATE ENVIRONMENTAL CODE (310 CMR 15.000 IN EFFECT AS OF MARCH 31, 1995 AND SUBSQUENTLY REVISED) AND THE BOARD OF HEALTH REQUIREMENTS FOR THE TOWN OF NANTUCKET.
2. TIGHT JOINT (TJ) PIPING TO CONSIST OF POLYVINYL CHORIDE PIPE (PVC) SCHEDULE 40, UNLESS OTHERWISE NOTED OR AUTHORIZED. ALL PIPES TO BE LAID ON A FIRM BASE. TIGHT JOINTS TO BE WATER TIGHT.
3. ALL TOPSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE LEACHING AREA AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING AREA. BACKFILL AS REQUIRED WITH A CLEAN GRAVEL OR SAND FILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER AND LARGE BOULDERS. ALL FILL MATERIAL MUST COMPLY WITH S.15.255(3) OF TITLE 5, AS REVISED 11/3/95. LEACHING AREA MUST BE CONSTRUCTED IN THIS MANNER.
4. HEAVY MACHINERY SHALL NOT BE PERMITTED TO PASS OVER THE LEACHING AREA.
5. FOR PROPER PERFORMANCE, SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR, AND WHEN THE TOTAL DEPTH OF SCUM AND SOLIDS EXCEEDS 1/3 OF THE LIQUID DEPTH OF THE TANK, THE SEPTIC TANK SHOULD BE PUMPED (USUALLY ONCE EVERY 2 OR 3 YEARS).
6. ANY CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFERING FROM THOSE SHOWN HEREON SHALL BE REPORTED TO RICHARD M. COX, P.E., THE DESIGN ENGINEER, BEFORE CONSTRUCTION CONTINUES.
7. THE SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL NOT BE BACKFILLED PRIOR TO INSPECTION AND APPROVAL BY THE NANTUCKET BOARD OF HEALTH AND/OR RICHARD M. COX, P.E., THE DESIGN ENGINEER.
8. UNDERGROUND AS WELL AS OVERHEAD UTILITY DATA INDICATED IS PLOTTED FROM VISIBLE FIELD LOCATION & AVAILABLE RECORDS. THE LOCATIONS ARE APPROXIMATE ONLY AND VERIFICATION SHOULD BE MADE IN THE FIELD. CONTACT DIG-SAFE 1-800-322-4844 PRIOR TO EXCAVATION.
9. NO PROPERTY SURVEY WAS MADE AS PART OF THIS PLAN. PROPERTY LINE INFORMATION INDICATED WAS OBTAINED FROM RECORD DEEDS AND/OR PLANS.

DESIGN CRITERIA

1. TYPE OF ESTABLISHMENT: 8 BEDROOM CAPACITY .
2. DESIGN FLOW:
   8 BEDROOMS AT 110 GALS./BEDROOM/DAY = 880 GALLONS/DAY
3. SEPTIC TANK SIZE: 1500 GALLONS (3)
   NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR GARBAGE DISPOSAL.
4. DESIGN PERCOLATION RATE: <5 MINUTES/INCH - SOIL CLASS I
   FROM TITLE 5 SECTION 15.242: LTAR-EFFLUENT LOADING RATES:
   0.74 GALLONS/S.F./DAY
5. LEACHING AREA PROVIDED: 150 L.F. 2'x 4' LEACHING TRENCH
   (3) 50 L.F. TRENCHES
   150L.F. x 8 S.F./L.F. = 1200 S.F.
6. LEACHING CAPACITY PROVIDED (BY TITLE 5):
   1200S.F. x 0.74 GALLONS/S.F./DAY = 888 GALLONS/DAY
7. MAXIMUM ALLOWABLE LOADING (BY TITLE 5)= 880 GALLONS/DAY
   ACTUAL HYDRAULIC LOADING (DESIGN FLOW)= 888 GALLONS/DAY

TEST PIT AND PERC TEST LOGS

NO SCALE



DEEP OBS. HOLE # 1 EL.=26.3

DEPTH	HORIZON	TEXTURE	COLOR
0-6"	A	LOAMY SAND	10YR3/2 WITH ROOTS, LOOSE
6"-18"	B	LOAMY SAND	10YR6/6
18"-120"	C	LOAMY SAND	2.5Y6/6

NO MOTTLES @10'
NO GROUND WATER OBS. @10'
<5 MIN. PER INCH @36"
BOTTOM ELEV.= 16.3

DATE: 1-17-2003
BY: CWH

DEEP OBS. HOLE #2 EL. =25.7

DEPTH	HORIZON	TEXTURE	COLOR
0-8"	A	LOAMY SAND	10YR3/2
8"-24"	B	LOAMY SAND	10YR6/6
24"-120"	C	LOAMY SAND	2.5Y6/6

NO MOTTLES @10'
NO GROUND WATER OBS. @10'
<5 MIN. PER INCH @36"
BOTTOM ELEV.= 15.7

DATE: 1-17-2003
BY: CWH

CERTIFICATION

I CERTIFY THAT ON 9-16-95 (DATE) I HAVE PASSED THE SOIL EVALUATOR EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS WAS PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017.

SIGNATURE _____ DATE 2-25-03

REVISION	DESCRIPTION	DATE	BY
1	FINAL CHECK	2/28/2003	RMC

PROPOSED
SUBSURFACE SEWAGE TREATMENT & DISPOSAL SYSTEM
PREPARED FOR

RICHARD J. GLIDDEN, TRUSTEE
40 SHAWKEMO ROAD REALTY TRUST

H-6089

LOCUS: #40 SHAWKEMO ROAD

ASSESSOR'S MAP 27 PARCEL 4

DESIGNED BY	TFK	DRAWN BY	TFK
DATE	FEBUARY 25, 2003	SCALE	1" = 80'
PLAN #	H03-05	SHEET	1 OF 1

COMMONWEALTH OF MASSACHUSETTS RICHARD M. COX No. 29679 REGISTERED PROFESSIONAL ENGINEER 3/4/03

COX ENVIRONMENTAL ENGINEERING INC.
P.O. BOX 301 - 82 DRESSER HILL RD - CHARLTON, MA 01507
(508)248-5185 FAX (508)248-5003

C:\H50\TK\H6089\BHPP
C. TK 7/1