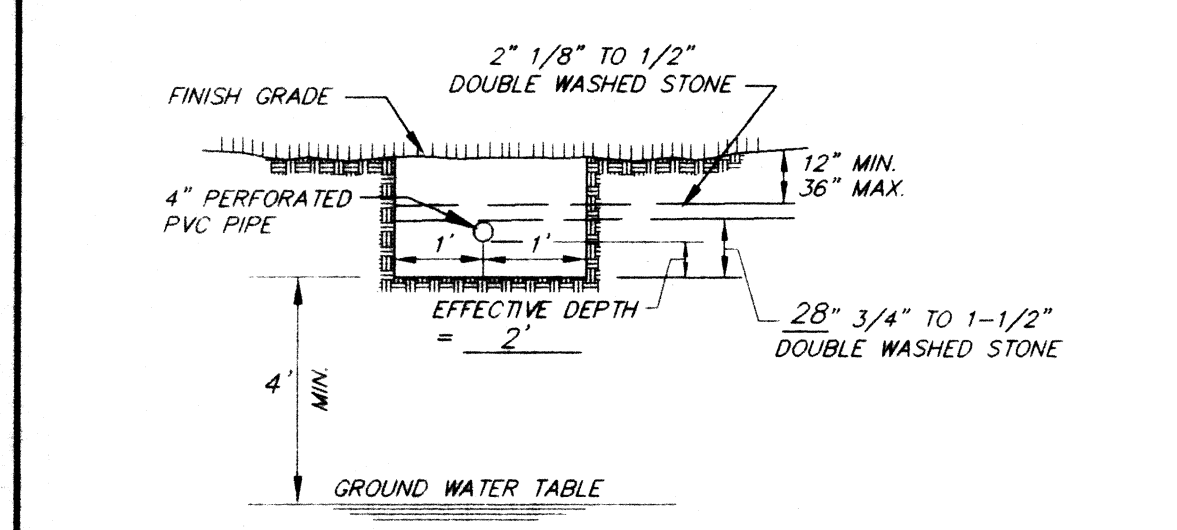


1500 GALLON SEPTIC TANK
 FOR PROPER PERFORMANCE, SEPTIC TANK SHOULD BE INSPECTED ANNUALLY. WHEN THE TOTAL DEPTH OF SCUM AND SOLIDS EXCEEDS 1/3 THE LIQUID DEPTH OF THE TANK, THE TANK SHOULD BE PUMPED.

DISTRIBUTION BOX
 310 CMR 15.255 (5) WHERE FILL IS REQUIRED TO REPLACE UNSUITABLE OR IMPERMEABLE SOILS, THE EXCAVATION OF THE UNSUITABLE MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM AND DOWN TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL AS REQUIRED BY 310 CMR 15.240 (SOIL ABSORPTION SYSTEMS), AND REPLACED WITH FILL MATERIAL MEETING THE SPECIFICATIONS OF 310 CMR 15.255 (3) TO THE TOP OF THE DISTRIBUTION PIPES.

PROFILE



LEACHING TRENCH - X - SECTION

- NOTES:**
- 1) LEACHING AREA REQUIREMENT IS NOT INCREASED BY 50% THEREFORE THE DESIGN OF THIS SYSTEM DOES NOT PERMIT THE USE OF GARBAGE DISPOSAL UNITS.
 - 2) NO PERMANENT STRUCTURES SHALL BE CONSTRUCTED OVER THE RESERVE AREA.
 - 3) NO SEPTIC SYSTEMS ARE LOCATED WITHIN 150' OF WELL.
 - 4) PROPERTY LINE AND TOPOGRAPHIC INFORMATION TAKEN FROM PLAN TITLED "CEDAR HILL ESTATES II DEFINITIVE SUBDIVISION OF LAND IN SEEKONK, MASSACHUSETTS" DATED JULY 13, 1990 BY FREEMAN ENGINEERING CO.
 - 5) LIMIT OF ISOLATED LAND SUBJECT TO FLOODING DELINEATED BY WALTER HEWITSON, PH.D. ON SEPTEMBER 6, 2000.

ELEVATION	SCHEDULE	DESIGN ELEVATION
TOP OF FOUNDATION		159.00
FINISHED BASEMENT FLOOR		151.50
FINISHED GARAGE FLOOR		157.16
SEWER INVERT AT FOUNDATION		154.50
SEWER INVERT INTO SEPTIC TANK		154.10
SEWER INVERT OUT OF SEPTIC TANK		153.85
SEWER INVERT INTO DISTRIBUTION BOX		153.70
SEWER INVERT OUT OF DISTRIBUTION BOX		153.53
SEWER INVERT AT START OF LEACHING TRENCH(ES)		153.48
SEWER INVERT AT END OF LEACHING TRENCH(ES)		153.30
BASE ELEVATION OF LEACHING TRENCHES (STONE)		151.30
ELEVATION OF GROUND WATER TABLE (TAKEN FROM TEST PIT NUMBER 1)		147.3

DESIGN ANALYSIS

REQUIRED: 4 BEDROOMS AT 110 GPD/BR 440 GPD TOTAL EFFLUENT

LEACHING AREA DESIGN:
 DESIGN PERC. RATE 6 MIN./INCH CLASS 1 SOIL
 TOTAL AREA = 648 SF x .68 GPD/SF = 440 GPD

SEPTIC TANK DESIGN:
 DESIGN VOLUME = 2 x 440 GPD = 880 GALLONS
 REQUIRED: 1 COMPARTMENT 1500 GALLON TANK

SOIL EXAMINATION REPORT
 EXAMINATIONS TAKEN BY CAROL A. LYDON, E.I.T. (CERT. SOIL EVALUATOR)
 AND WITNESSED BY HAROLD E. CHENEVERT, Jr.
 BOARD OF HEALTH AGENT ON 5/16/00

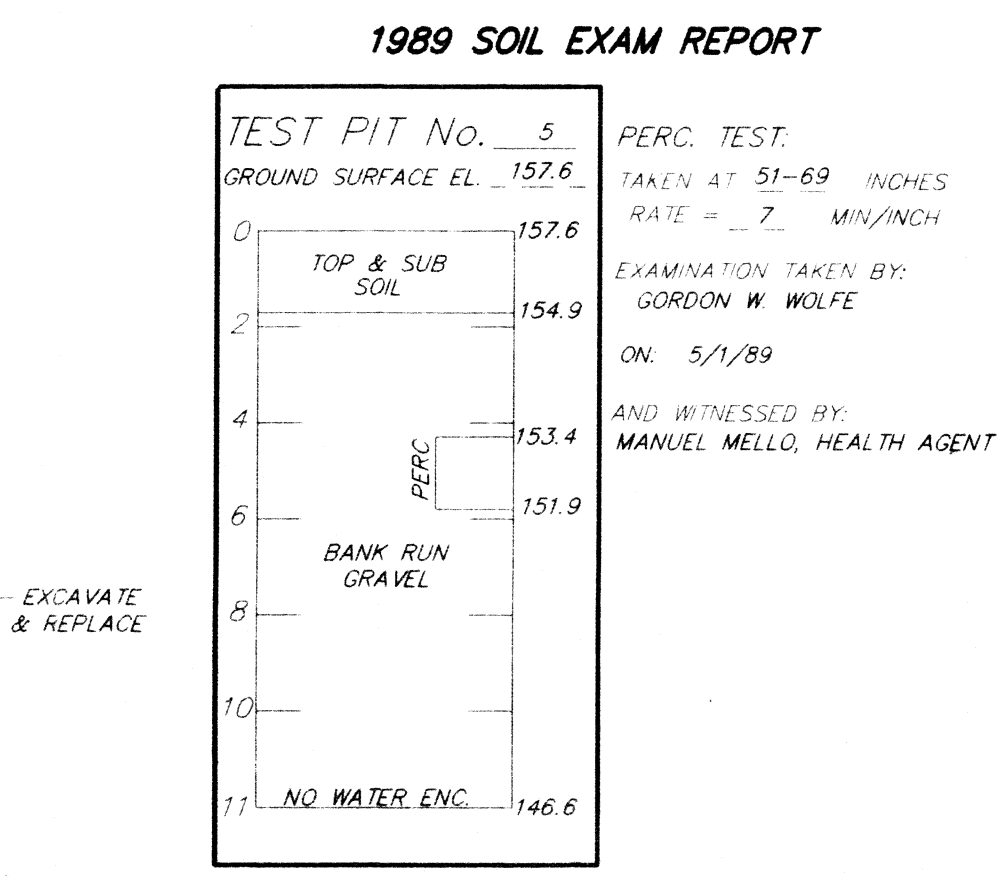
TEST PIT # 1 DEEP OBSERVATION HOLE LOG

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING (STRUCTURE, STONE CONSISTENCY)	OTHER
0-2	A	LOAM	10YR 3/2	NONE	FRIABLE
2-27	B	SILTY LOAM	10YR 4/4	NONE	FRIABLE
27-126	C	LOAMY COARSE SAND	2.5Y 4/4	NONE	JUNK GRAVEL, 10% STONES

PERC. TEST TAKEN AT: 48"-63" RATE = 6

OBSERVED DEPTH TO GROUND WATER: NOT ENC.

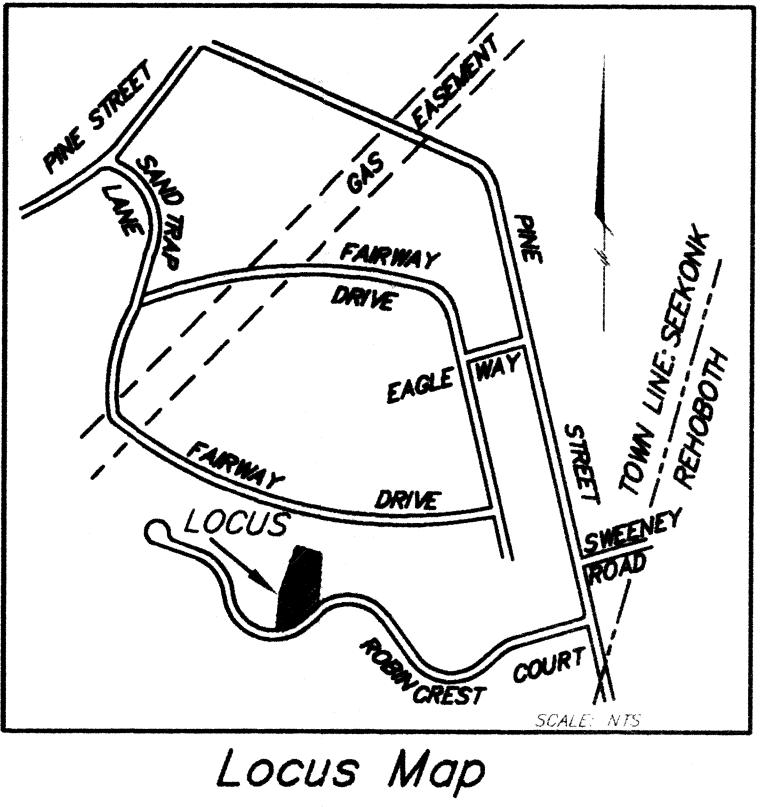
DESIGN DEPTH TO GROUND WATER: EL=147.3



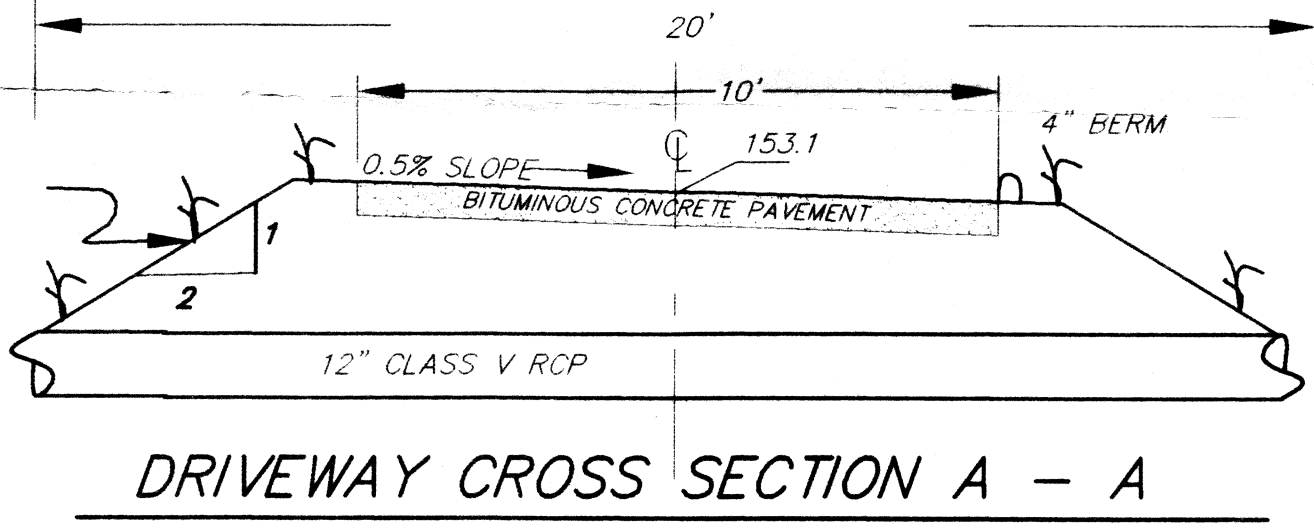
I CERTIFY THAT THE SEWAGE DISPOSAL FACILITY SHOWN HEREON HAS BEEN DESIGNED IN ACCORDANCE WITH THE REGULATIONS OF THE LOCAL BOARD OF HEALTH AND TITLE 5 OF THE STATE ENVIRONMENTAL CODE.

11/27/00 DATE
 PROFESSIONAL ENGINEER

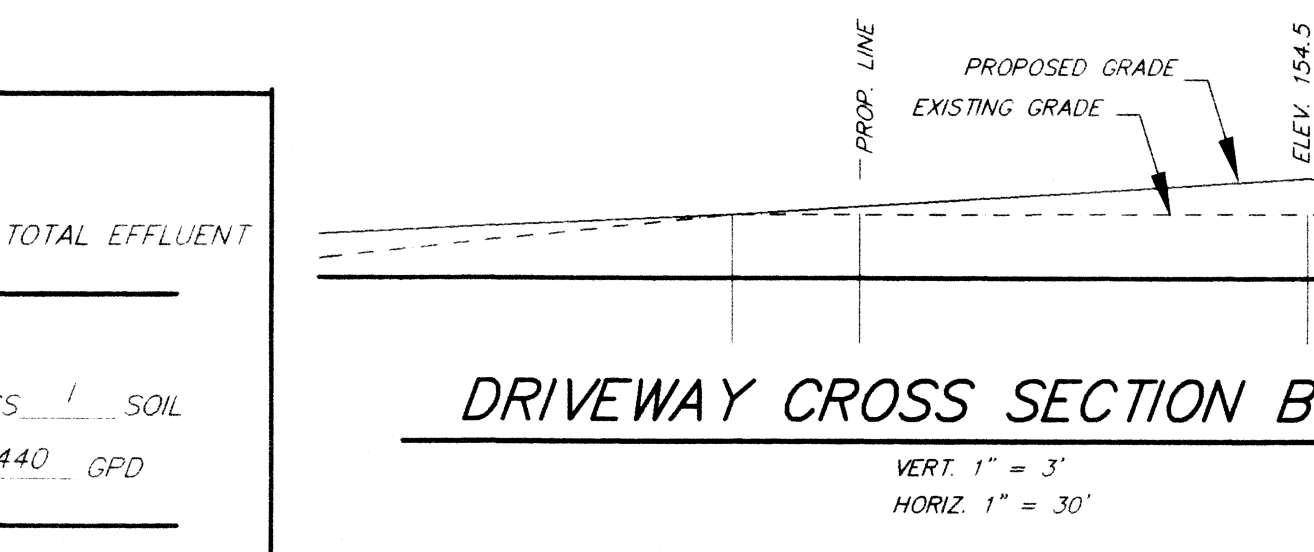
- NOTICE TO INSTALLING CONTRACTOR:**
- 1 - THIS SANITARY DISPOSAL FACILITY SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 5 THE STATE SANITARY CODE AND NO VARIATIONS FROM THIS PLAN SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THIS OFFICE.
 - 2 - SOIL CONDITIONS CAN VARY - WATER TABLE ELEVATION AND THE LIMITS OF ACCEPTABLE SOIL MUST BE VERIFIED PRIOR TO INSTALLATION OF THE ABSORPTION SYSTEM.
 - 3 - THE LOCATION OF UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM THE BEST AVAILABLE INFORMATION, HOWEVER IT IS NOT WARRANTED THAT THE LOCATIONS ARE CORRECT, NOR THAT ALL UTILITIES ARE SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DIG SAFE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
 - 4 - AN AS-BUILT SURVEY OF THE SYSTEM IS REQUIRED. THIS OFFICE SHALL BE NOTIFIED PRIOR TO BACKFILLING THE SYSTEM COMPONENTS FOR OUR INSPECTION AND FIELD LOCATION.
 - 5 - ALL BENCH MARKS SHOWN ON THIS PLAN ARE TO BE CHECKED FOR CONSISTENCY BY THE CONTRACTOR. ANY DISCREPANCIES MUST BE RESOLVED BY THIS OFFICE PRIOR TO CONSTRUCTION.
 - 6 - MINIMUM 2% SLOPE MUST BE MAINTAINED OVER LEACHING AREA IN FINAL GRADING.
 - 7 - ALL JOINTS AS SHOWN ON THIS PLAN SHALL BE WATER TIGHT AS REQUIRED BY TITLE V - 15.227.(3).



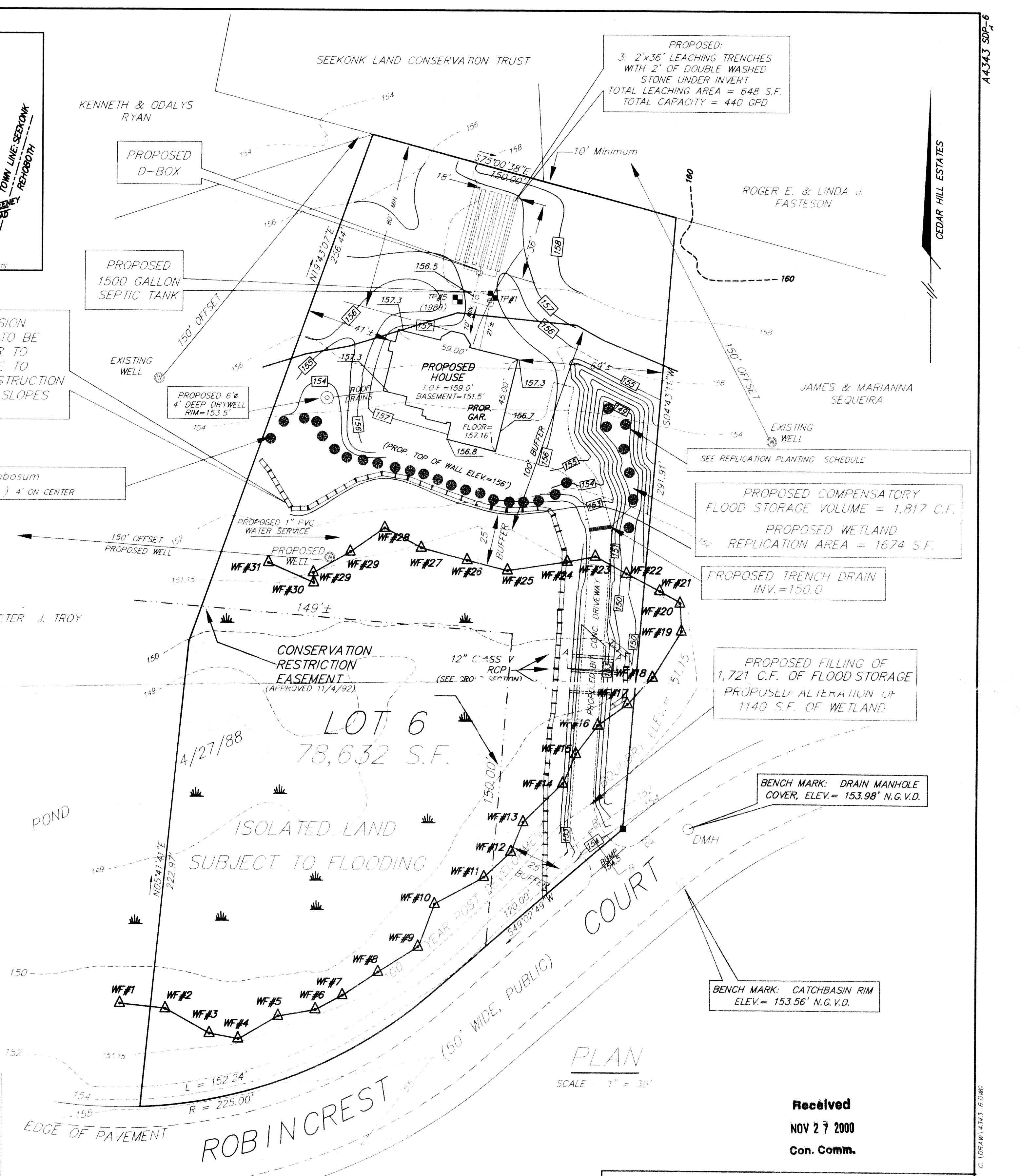
NOTE: TEMPORARY EROSION CONTROL - HAYBALES TO BE STAKED IN PLACE PRIOR TO CONSTRUCTION AND ARE TO REMAIN UNTIL ALL CONSTRUCTION IS COMPLETE AND NEW SLOPES HAVE BEEN STABILIZED



DRIVEWAY CROSS SECTION A - A



DRIVEWAY CROSS SECTION B - B



LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING ELEVATION
- PROPOSED ELEVATION
- FINISHED SURFACE GRADE FLOW
- TEST PIT LOCATION AND NUMBER

REVISIONS

Date	Checked	Revision
11/11/00		DRIVEWAY, RET WALL & PLANTINGS
10/30/00		ADDED EROSION CONTROL & 25' BUFFER
9/15/00		ISOLATED LANDS SUBJECT TO FLOODING

Designed By: C.A.L.
 Drawn By: C.A.L.
 Checked By: S.D.R./P.A.M.
 Approved By: P.A.M.

Date: JUNE 29, 2000
 Scale: 1" = 30'

GARY FERRARA 69-439

ON-SITE SANITARY DISPOSAL SYSTEM

ROBINCREST COURT SEEKONK, MASS.

FREEMAN ENGINEERING CO.
 A DIVISION OF
HAYWARD-BOYNTON & WILLIAMS, INC.
 LAND SURVEYORS CIVIL ENGINEERS
 178 NORTH MAIN ST. ATTLEBORO, MASS.
 Tel. (508)822-9870 Fax. (508)880-8891

Sheet 1 of 1

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