

COYLE ENGINEERING

PROFESSIONAL ENGINEERS & LAND SURVEYORS
LEICESTER, MA. 01524

TEL. NO. (508) 892-4749

GENERAL NOTES

ALL MODIFICATIONS TO THIS PLAN MUST BE PREAPPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH.

ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THE LOCAL BOARD OF HEALTH AND THE STATE ENVIRONMENTAL CODE TITLE V.

THE CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM IS NOT ALLOWED.

TO OBTAIN A CERTIFICATE OF COMPLIANCE, 3 INSPECTIONS WILL BE REQUIRED BY THE DESIGN ENGINEER.

MACHINERY WHICH MAY CRUSH OR DISTURB THE PIPE SHALL NOT BE ALLOWED ON THE DISPOSAL AREA.

THIS SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.

TOPSOIL, PEAT, AND OTHER IMPERVIOUS MATERIALS SHALL BE REMOVED FROM ALL AREAS BENEATH THE LEACHING FACILITY AND FOR A DISTANCE OF 5 FEET IN ALL DIRECTIONS THEREFROM.

WHERE A SEWAGE DISPOSAL SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED AND COMPACTED IN 12 INCH LIFTS OR ALLOWED TO SETTLE FOR A MINIMUM OF ONE YEAR. THE FILL MATERIAL MUST CONFORM WITH THE LOCAL BOARD OF HEALTH AND STATE ENVIRONMENTAL CODE TITLE V SECTION 15.255.

THE BASE FOR THE SEPTIC TANK AND DIST. BOX MUST BE COMPACTED BY A VIBRATORY TAMPER OR EQUAL.

ZONING SUBURBAN - AGRICULTURAL (SA)
SECTION 14.13.03 ZONING BY-LAWS
ARTICLE 14.13.03 LIMITED FERTILIZER LOT

REQUIRED SETBACK DISTANCES - 40 FT IN ALL DIRECTIONS

PROPOSED STRUCTURE: 48" x 36" x 24" HIGH (WOOD) BROWN

PROPOSED INDIGENOUS GRASSES ON ALL DISTURBED AREAS

EARTH FILL REQD: 1,050 CY.

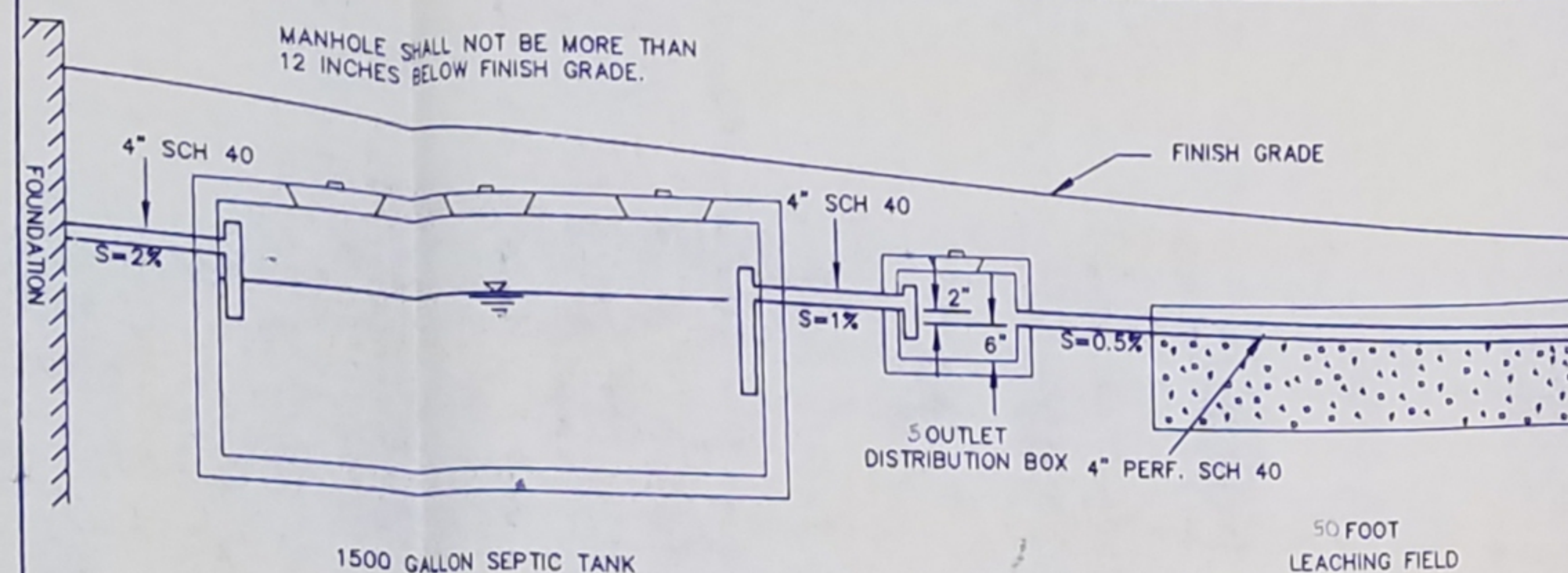
LEGEND

EXISTING CONTOURS	210
PROPOSED CONTOURS	210
EXISTING ELEVATION	XXX
PROPOSED ELEVATION	XXX
INVERT ELEVATION	INV
BENCH MARK	BM
PERC TEST HOLE	⊗
TEST PIT	⊗
WELL	⊗
UTILITY POLE	⊗
STONE WALL	—○—○—○—
FENCE	—□—□—□—

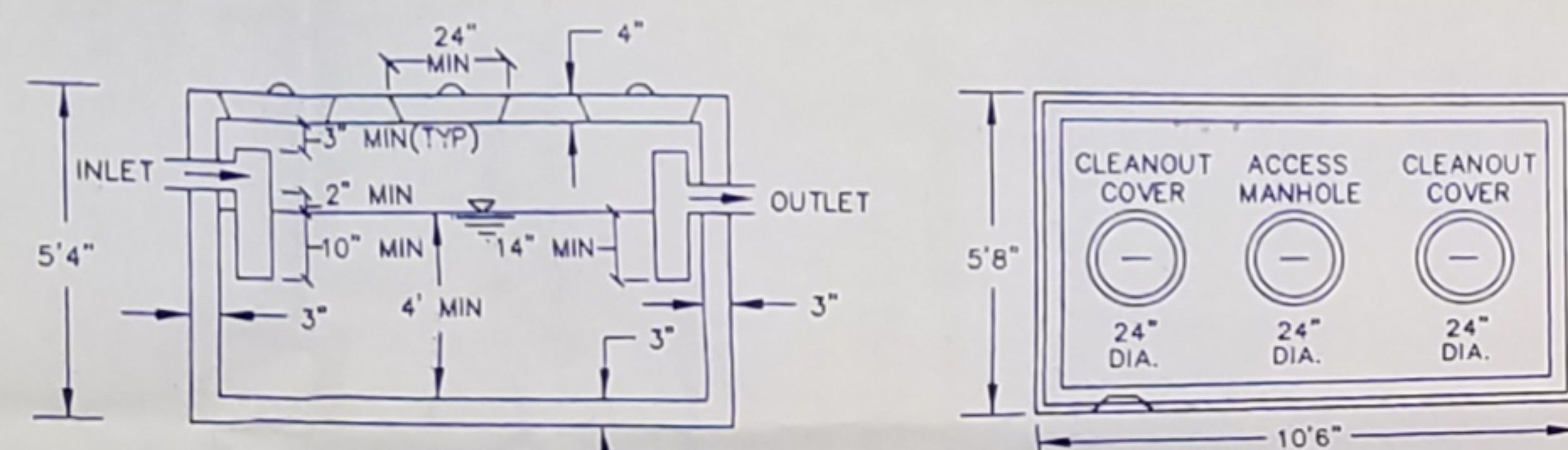
DESIGN ELEVATIONS

BASEMENT FLOOR ELEVATION	97.33
ELEV. AT TOP OF FOUNDATION	105.00
INVERT AT FOUNDATION	100.55
INVERT AT SEPTIC TANK INLET	100.25
INVERT AT SEPTIC TANK OUTLET	100.00
INVERT AT DIST. BOX INLET	99.68
INVERT AT DIST. BOX OUTLET	99.51
INVERT AT BEGINNING OF FIELD	99.45
INVERT AT END OF FIELD	99.20
ELEV. AT BOTTOM OF FIELD	98.70
HIGH GROUND WATER ELEVATION	94.70

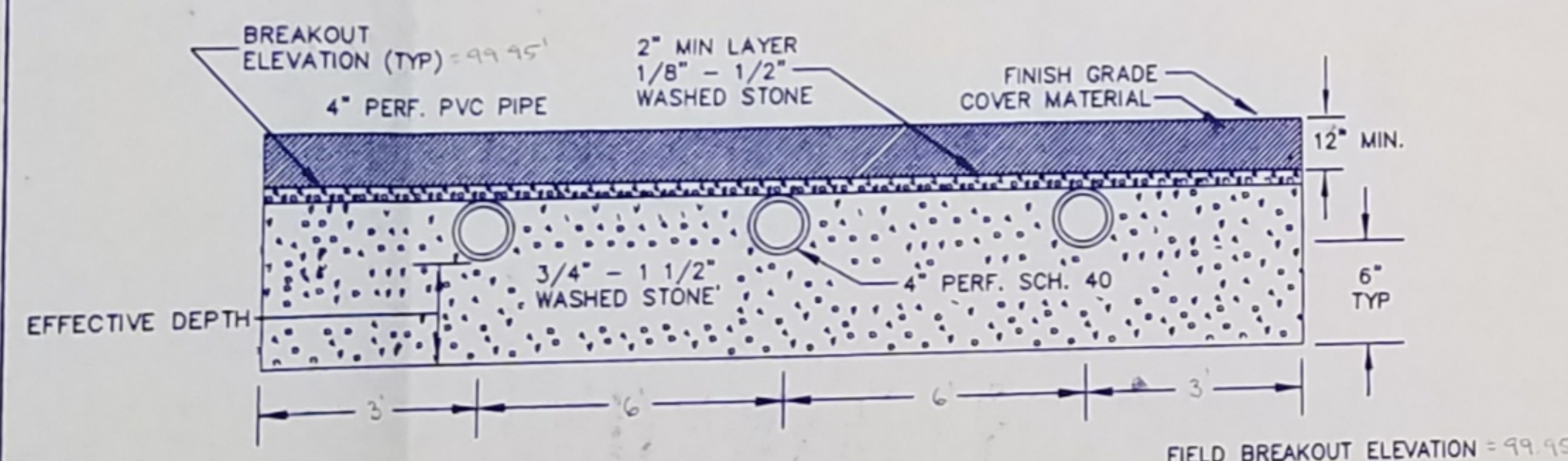
36" G.W. ELEV. = 97.2' - 38" = 94.7'



TYPICAL SEPTIC PROFILE
NOT TO SCALE



TYPICAL SEPTIC TANK
NOT TO SCALE



CROSS SECTION
NOT TO SCALE
TYPICAL LEACHING TRENCH

DESIGN CRITERIA

TYPE OF BUILDING	HOUSE
NUMBER OF BEDROOMS	3
DISPOSAL	NO
ESTIMATED SEWAGE FLOW	330 GPD
PERCOLATION RATE	15 MPI
LEACHING FIELD DIMENSIONS BOTTOM	50' x 18'
RESERVE FIELD DIMENSIONS BOTTOM	45' x 20'
LEACHING AREA	900 SF
TOTAL	1800 SF

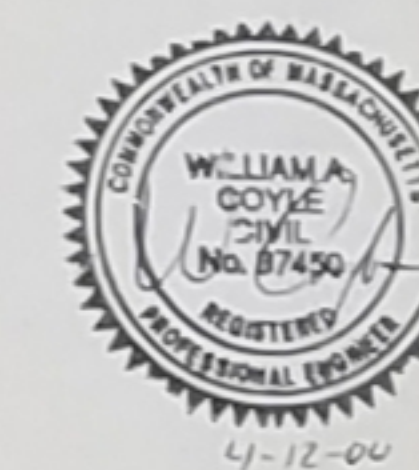
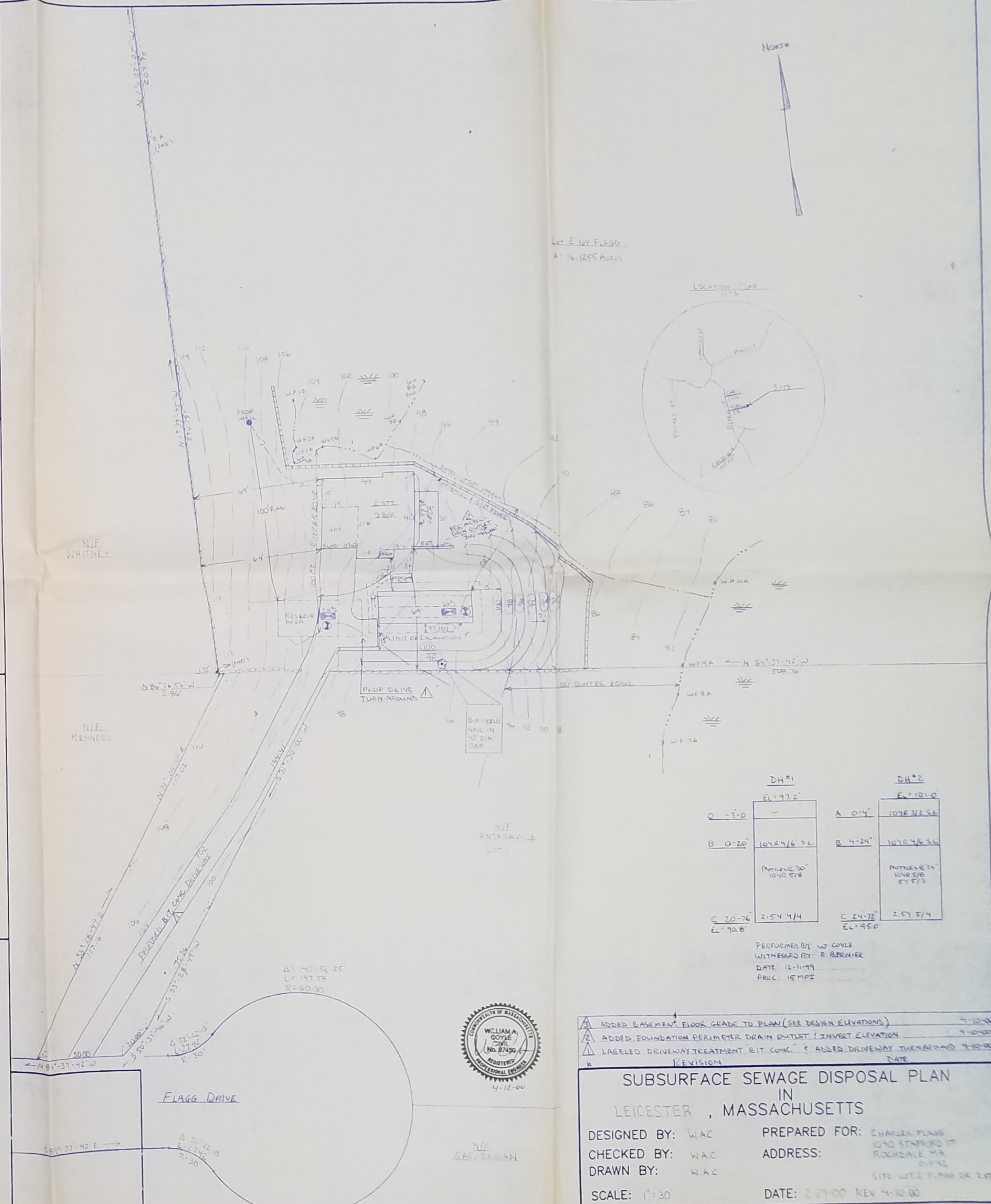
DESIGN COMPUTATIONS

DESIGN PERC RATE = 15 MPI
BOTTOM PERC RATE FACTOR (B.R.F.) = 0.56
SIDEWALL PERC RATE FACTOR (S.R.F.) = N/A
WIDTH OF FIELD (W) = 18'
LENGTH OF FIELD (L) = 50'

BOTTOM AREA OF FIELD:
(L) x (W) x (B.R.F.) = GAL.

50' x 18' x 0.56 GPD/6F = 504 GPD

504 GPD PROVIDED > 330 GPD REQUIRED - O.K.



ADD. BASEMENT FLOOR GRADE TO PLAN (SEE DESIGN ELEVATIONS)	4-10-00
ADD. FOUNDATION PERIMETER DRAIN OUTLET (INVERT ELEVATION)	4-10-00
ADD. DRIVEWAY TREATMENT PIT, CONC. & ADD. DRIVEWAY TURNAROUND	4-10-00

SUBSURFACE SEWAGE DISPOSAL PLAN IN LEICESTER, MASSACHUSETTS

DESIGNED BY: WAC
CHECKED BY: WAC
DRAWN BY: WAC
SCALE: 1"=30'
PREPARED FOR: CHARLES FLAGG
ADDRESS: 1040 STAFFORD ST
ROCKDALE, MA 01942
DATE: 2-27-00 REV 4-10-00