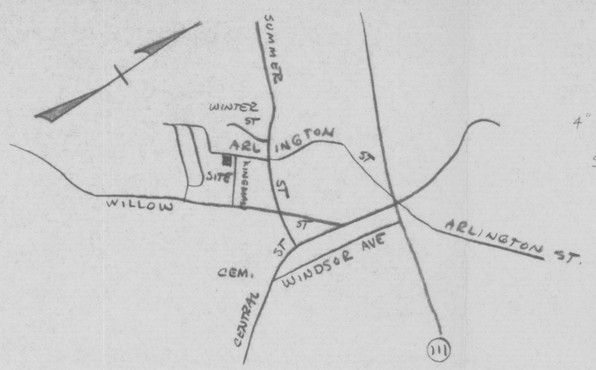

LOCUS

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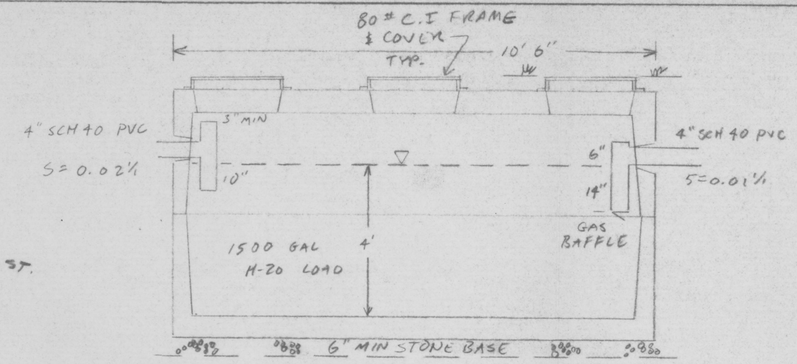

X SECTION SEPTIC TANK

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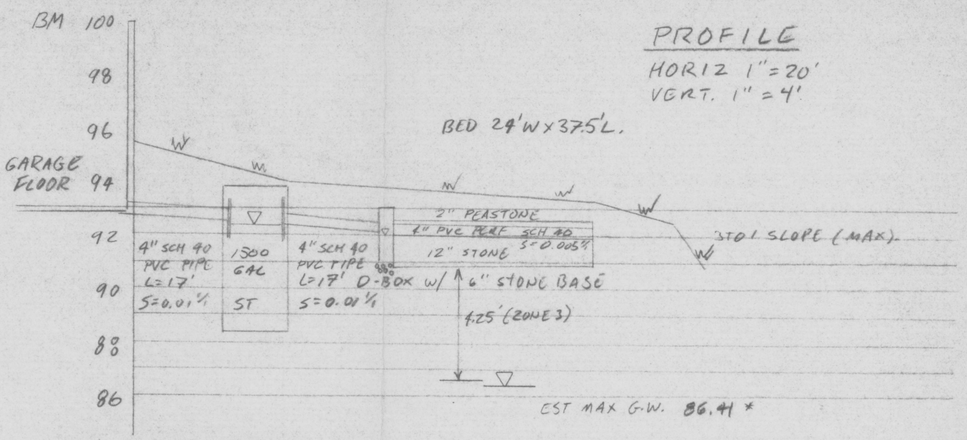
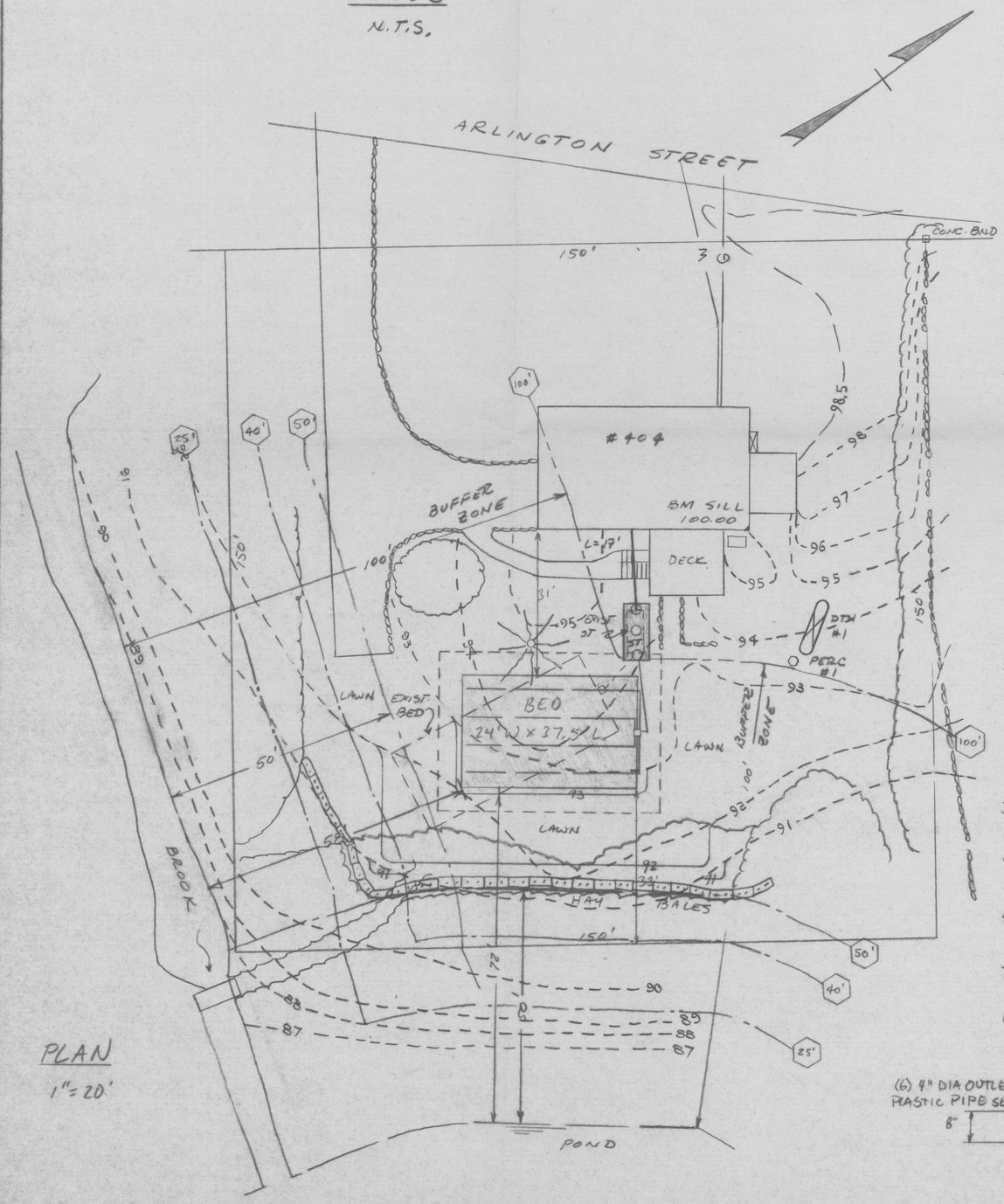


* EST. MAX G.W EL. AT BED.
EL. 79.93 + 72' @ 0.09 1/4 (FROM POND) = 86.41'



PLAN

1"=20'

NOTES:

1. REMOVE EXISTING SEPTICTANK, D-BOX AND LEACHING BED. DISPOSE OF MATERIALS OFF SITE.
2. REMOVE TOPSOIL (A) AND SUBSOIL (B) FROM LEACHING BED AREA AND 5' AROUND AND REPLACE WITH APPROVED FILL TO BOTTOM OF BED ELEVATION.
3. INSTALL NEW SEPTICTANK, D-BOX AND LEACHING BED, PIPE AND PEASTONE AS SHOWN ON THE PLAN. LEACHING BED SHALL BE 12" DEEP USING 3/4" - 1 1/2" CLEAN STONE.
4. COMPLETE THE FILL AS SHOWN ON THE PLAN. USE ALL EXISTING TOP AND SUB SOIL FOR FILL ON-SITE. RECONSTRUCT SLOPES NO STEEPER THAN 3 TO 1.
5. REGRADE, BACKFILL, LOAM, SEED, FERTILIZE AND PLACE STRAW COVER ON DISTURBED LAWN AREAS.
6. PROTECT EXISTING DRIVEWAY, BUILDING, GARDENS, TREES, SHRUBS, STONEWALLS, YARD AND UTILITIES DURING CONSTRUCTION. REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION.
7. SEPTIC TANK TO BE CONCRETE, 1500 GALLONS, H-20 LOADING, 4' WATER DEPTH, INLET PVC TEE 10" BELOW FLOW LINE, OUTLET PVC TEE 14" BELOW FLOW LINE, SET LEVEL ON 6" DEPTH OF 3/4" - 1 1/2" STONE BASE.

VARIANCES REQUIRED:

TITLE 5, NONE.
ACTON BOH ARTICLE 11.
11-7.2 75' OFFSET TO WETLANDS.
11-5.1 DTH DUG IN JULY 1997.
ACTON BOH ARTICLE 16.
16-6.2.7 100' OFFSET TO WETLANDS. PROJECT IS IN PROTECTION ZONE (3)

DESIGN NOTES:

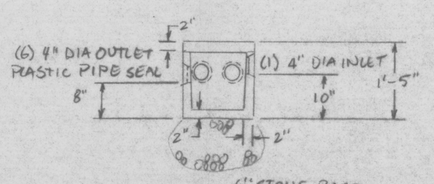
3 BEDROOM HOUSE	330 GPD
PERC RATE 5 MINS/INCH @ 48" ON 7/30/97	
CLASS I SOIL (LOAMY SAND)	
TITLE 5. 0.74 GPD/SF; 446 SF.	
ACTON. 0.56 GPD/SF; BED SIZE 589 SF	
MIN. BED SIZE FOR ACTON - 900 SF. PROPOSED 24' x 37.5' BED, PIPES AT 6' SPACING.	
INVERT OUT OF HOUSE	92.75
INLET TO SEPTIC TANK (ST)	92.58
OUTLET FROM ST.	92.41
INLET TO D-BOX	92.24
OUTLET FROM D-BOX	92.07
INVERT END OF PIPES	91.84
BOTTOM OF BED	90.84
TOP OF PEASTONE	92.34
SURFACE OVER BED	93.34

SYSTEM NOT DESIGNED FOR GARBAGE GRINDER

SOILS LOGS

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-10"	A_p	FILL			
10-32"	B	FILL			
32-40"	A_p	SANDY LOAM	10YR 4/1		
40-58"	C	LOAMY SAND	10YR 5/8	50" 7.5YR 5/6	CRUMB, FRIABLE, 40% GRAVEL, 2" COBBLES
58-79"	C_2	LOAMY SAND	2.5Y 7/6		CRUMB, FRIABLE, 40% GRAVEL, 1/4 TO 2" STONES
79-99"	C_3	SAND	10YR 7/1		CRUMB, FRIABLE, 100% GRAVEL.

Est. SEASONAL HIGH G.W. - 50" EL 89.83



DETAIL D-BOX

N.T.S.

RECEIVED
OCT 20 1997
ACTON CONSERVATION COMMISSION

COMMONWEALTH OF MASSACHUSETTS
DUNCAN M BROWN #24667
REGISTERED PROFESSIONAL ENGINEER

8/8/97
REVISED:
8/15/97
9/10/97
9/17/97

WILLARD & LAUREN BIGELOW
404 ARLINGTON STREET
ACTON, MASSACHUSETTS 01720

PROPOSED SEPTIC SYSTEM REPLACEMENT

DUNCAN M. BROWN, PE
55 WHITCOMB ROAD
BOXBOROUGH, MA 01719

AUGUST 1997

2121