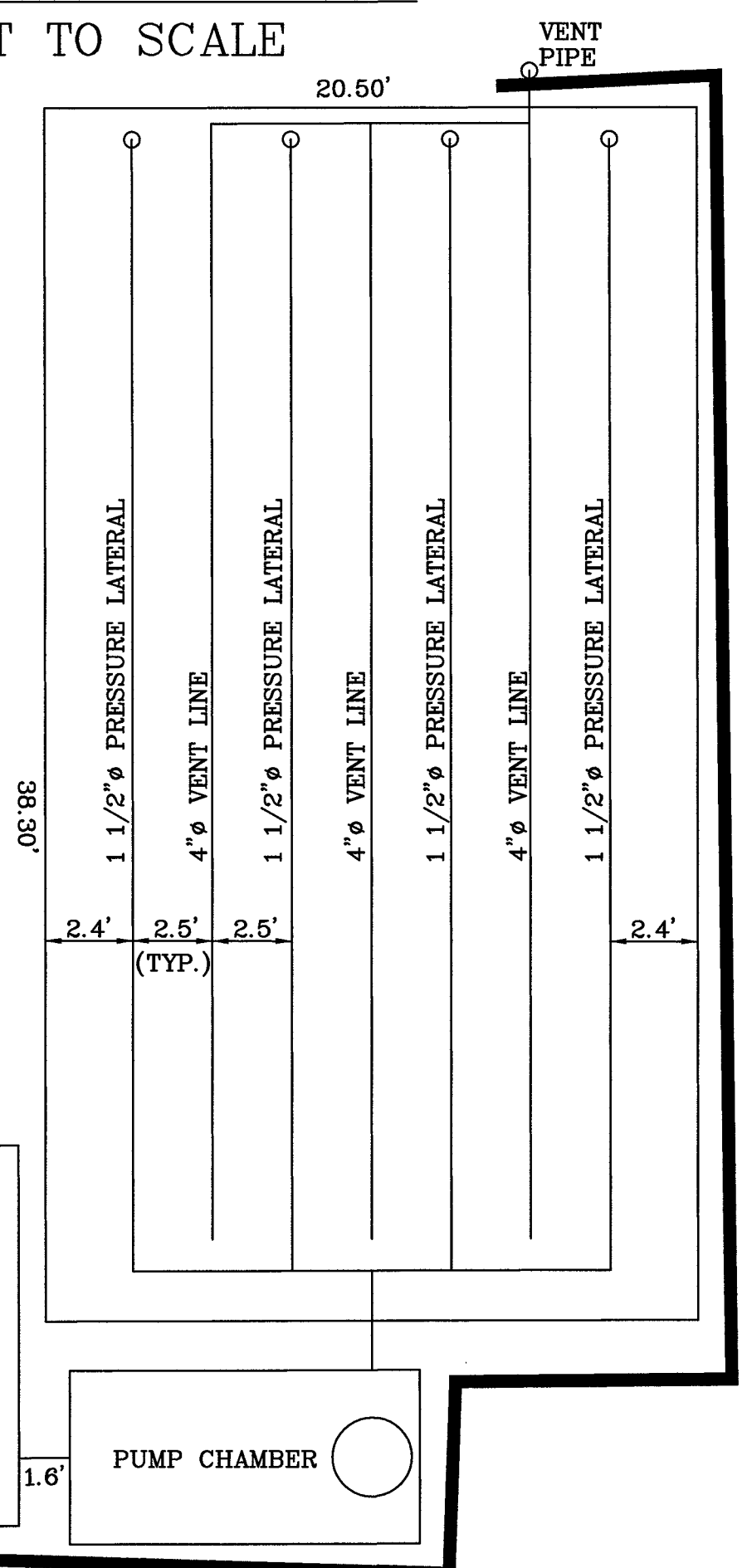


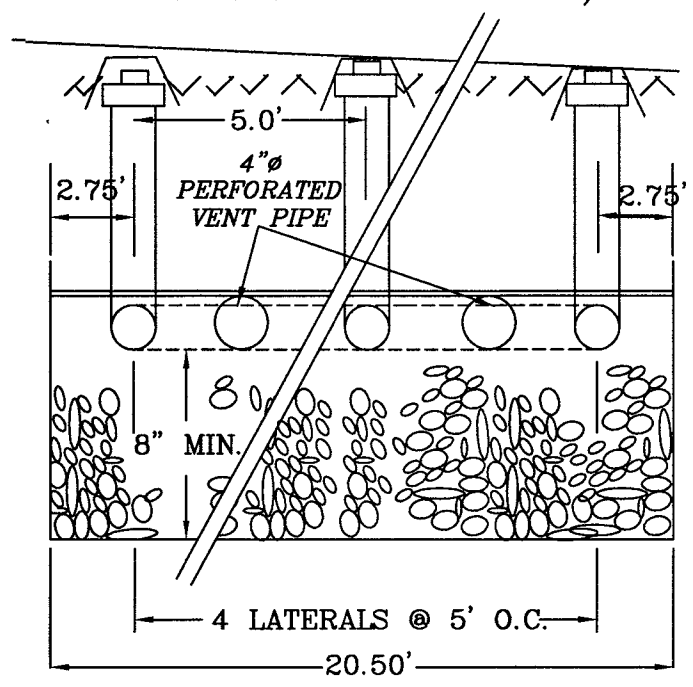
TOP VIEW OF LEACHING FIELD
NOT TO SCALE



GENERAL NOTES:

1. THIS PLAN IS FOR THE REPAIR OF AN EXISTING SEWAGE DISPOSAL SYSTEM.
2. PLAN REFERENCE LOT 27(ASS)BARNSTABLE REG. OF DEEDS.
3. THIS PLAN IS FOR THE INSTALLATION /REPAIR OF SEPTIC SYSTEM AND NOT TO BE USED FOR SURVEYING AND ZONING PURPOSES.
4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO D.E.P. TITLE 5 AND THE TOWN OF BOURNE RULES AND REGULATIONS FOR THE SUBSURFACE DISPOSAL OF SEWAGE.
5. ALL COVERS TO SANITARY UNITS SHALL BE BROUGHT TO WITHIN 6" OF THE FINISHED GRADE.
6. EXISTING AND FINAL GRADES SHALL REMAIN ESSENTIALLY THE SAME, UNLESS NOTED BY FINAL CONTOURS.
7. ALL COMPONENTS OF THE SANITARY SYSTEM SHALL BE CAPABLE OF WITHSTANDING H-10 LOADING UNLESS THEY ARE UNDER OR WITHIN 10' OF DRIVES OR PARKING AREAS. H-20 LOADING SHALL BE USED UNDER OR WITHIN 10' OF DRIVES OR PARKING AREAS UNLESS NOTED.
8. ANY MASONARY UNITS USED TO BRING COVERS TO GRADE SHALL BE MORTARED IN PLACE.
9. NO DETERMINATION HAS BEEN MADE AS TO COMPLIANCE WITH DEEDED OR ZONING REGULATIONS. OWNER/APPLICANT IS TO OBTAIN SUCH DETERMINATION FROM APPROPRIATE AUTHORITY.
10. THE EXCAVATOR/CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.

(GROUND SLOPED AT 2% TO PREVENT PONDING OVER SYSTEM)



BOUYANCY CALCULATIONS

3,000 GALLON H-20 TANK FOR "FAST" .75
DESIGN ASSUMPTIONS:
TANK IS COMPLETELY EMPTY
TANK IS 1.12' IN GROUNDWATER

16.5' x 7.5' x 1.12' x 62.4 =
8,648.6 lbs OF UPLIFT
TANK WEIGHT (MANUFACTURERS CUT SHEET)
31,602 lbs
TANK IS NOT BOUYANT

1,500 GALLON H-20 PUMP CHAMBER
DESIGN ASSUMPTIONS:
TANK IS COMPLETELY EMPTY
TANK IS 2.0 IN GROUNDWATER

10.20' x 6.04' x 2.0' x 62.4 =
7,688.7 lbs OF UPLIFT
TANK WEIGHT (MANUFACTURERS CUT SHEET)
14,000 lbs
PUMP CHAMBER IS NOT BOUYANT

SOIL TEST DONE BY: JACK LANDERS-CAULEY P.E.
WITNESSED BY: TERRI GUARINO
PERCOLATION RATE: 5 MIN/INCH P# NONE
TEST HOLE 1 DATE: 02/10/21 ELEV. 8.42

DEPTH	HORIZON	TEXTURE	COLOR	MOTT.	OTHER
0"-40" (8.42-5.09)	FILL				
40"-46" (5.09-4.59)	O/A	SANDY LOAM	10YR 3/3		
46"-60" (4.59-3.42)	B	SANDY LOAM	10YR 5/8		HIGHEST MON. WELL OBSERV. H2O @ 3.10
60"-95" (3.42- 0.50)	C	MED. SAND	2.5Y 6/6		

ALL ELEVATIONS HAVE BEEN CONVERTED TO NAVD 88

DESIGN DATA:

NUMBER OF BEDROOMS 7 (SEVEN)

GARBAGE DISPOSAL NONE (0)

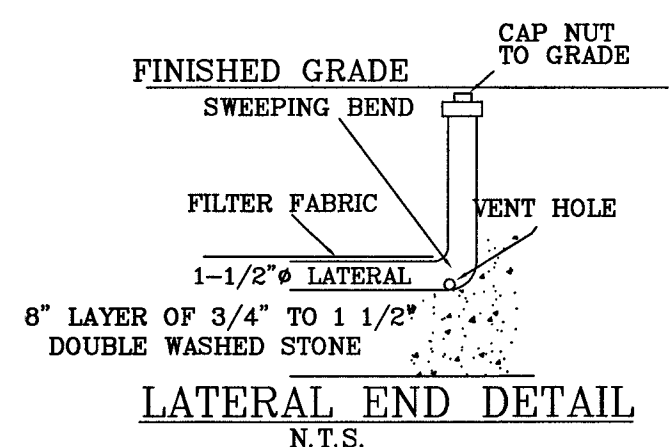
TOTAL ESTIMATED FLOW 770 GPD
(GAL/BR./DAY X 7 BR.)

SEPTIC TANK CAPACITY 2,000

LEACHING AREA REQUIREMENTS
SIDEWALL AREA 0 S.F.
BOTTOM AREA 1,050 S.F.

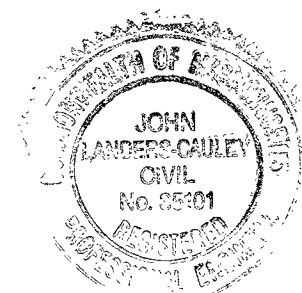
REQUESTING 25% REDUCTION:
1,050 x .75 = 787.50
787.50 x .74 = 582.75

LEACHING CAP.(BOT. & SIDEWALL) 582.75 GAL.
RESERVE LEACHING CAPACITY N/A GAL.



TEST HOLE 2 DATE: _____ ELEV. _____
SOIL TEST BY: _____ WITNESSED BY: _____

DEPTH	HORIZON	TEXTURE	COLOR	MOTT.	OTHER



TANK TO BE CONSTRUCTED TO ACCEPT A "FAST" DENITRIFICATION UNIT

NOTE: THE TOWN OF BOURNE REQUIRES THE ENGINEER TO INSPECT ALL SEPTIC SYSTEM COMPONENTS, INCLUDING INVERTS, AFTER THEY HAVE BEEN INSTALLED AND BEFORE THEY ARE BACKFILLED.