

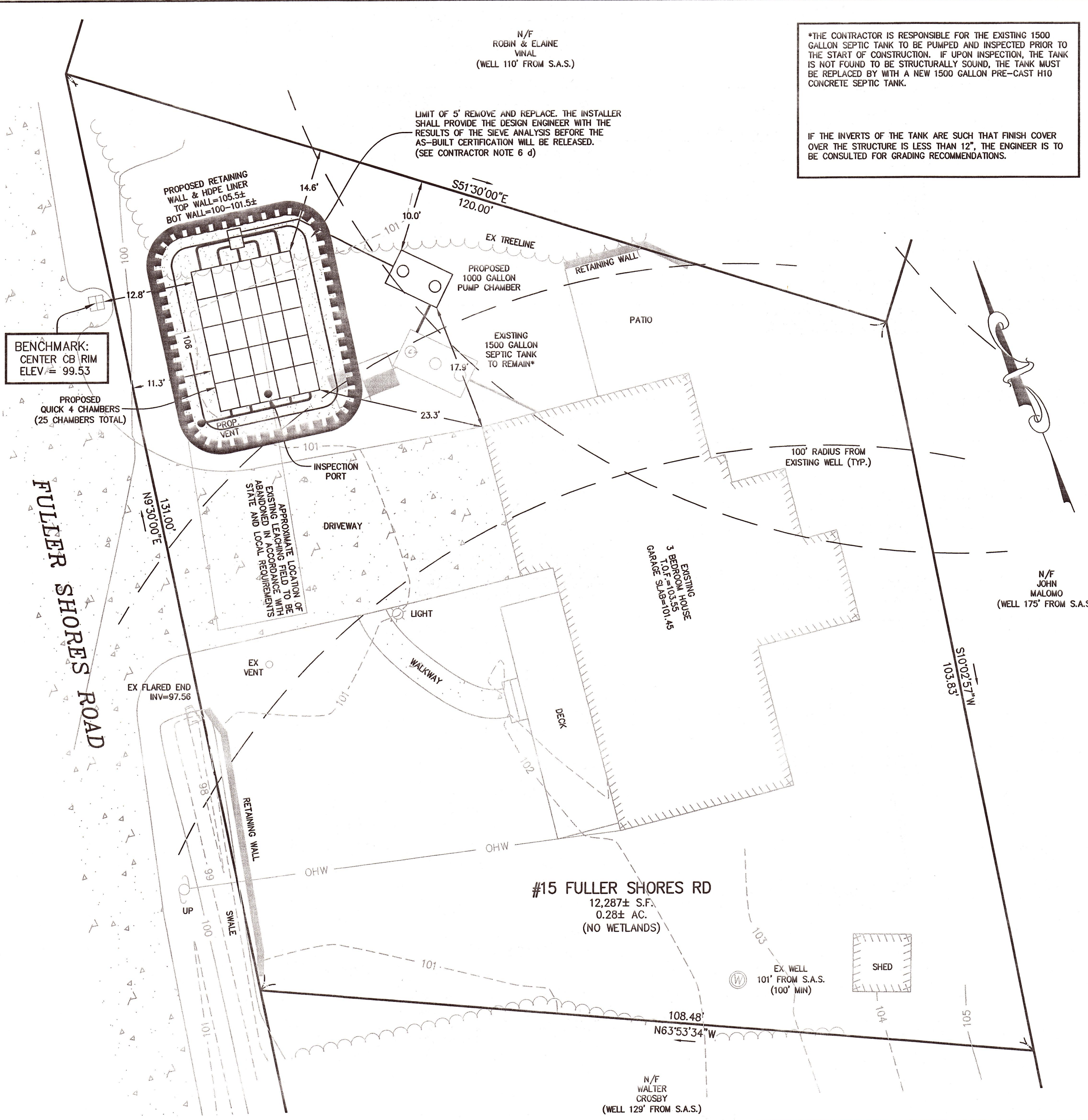
NOTE:
EXISTING INVERT OUT OF THE SEPTIC TANK TO BE VERIFIED PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER MUST BE NOTIFIED OF ANY DISCREPANCIES FROM THIS PLAN.

SEPTIC SYSTEM PUMP PROFILE

NOT TO SCALE

- DESIGN CALCULATIONS:**
- ESTIMATED DAILY FLOW:
3 BEDROOMS X 110 GALLONS PER BEDROOM PER DAY
= 330 GALLONS PER DAY.
 - SEPTIC TANK REQUIRED CAPACITY = 1500 GALLONS
 - LEACHING AREA REQUIREMENTS: SEE SIEVE RESULTS
EFFLUENT LOADING RATE = 0.74 GPD/S.F. (CLASS I)
WITH A LEACHING FIELD
AREA REQ'D = 330 GPD / 0.74 GPD/S.F.
= 446 SF.
 - LEACHING AREA PROVIDED:
QUICK 4 CAPACITY = 4.73 SF/L.F.
CAPACITY REQUIRED = 446 SF / 4.73 SF/L.F. = 94.3 L.F.
USE 5 ROWS: 94.3 L.F. / 5 ROWS = 18.9 L.F./ROW
USE (5) 4' CHAMBERS/ROW, 25 TOTAL CHAMBERS
PROPOSED LEACHING FIELD: 12'0" X 14.12' W X 20"
CAPACITY PROVIDED = (25) 4' CHAMBERS = 100 LF
(100 LF) (4.73 SF/L.F.) = 473 SF X 0.74 GPD/SF = 350 GPD
- CONTRACTOR NOTES:**
- ALL CONSTRUCTION TO CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS DEPT. OF ENVIRONMENTAL PROTECTION SANITARY CODE, TITLE 5, AND LOCAL BOARD OF HEALTH REGULATIONS.
 - THE DESIGN ENGINEER IS TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS.
 - ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR APPROVED EQUAL PER 310 CMR 15.221(12)
 - PER 310 CMR 15.246(2), FROM THE DATE OF THE INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF A CERTIFICATE OF COMPLIANCE FROM THE APPROVING AUTHORITY IN ACCORDANCE WITH 310 CMR 15.021, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES WHICH MIGHT DAMAGE THE SOIL ABSORPTION SYSTEM. SUCH FLAGGING IS NOT INTENDED TO PRECLUDE THE FINAL GRADING AND LANDSCAPING OF THE AREA OF THE SOIL ABSORPTION SYSTEM. STOCKPILING OF MATERIALS OR HEAVY EQUIPMENT WITHIN THE AREA IS PROHIBITED.
 - LOCATION OF UTILITIES IS APPROXIMATE AND CONTRACTORS SHALL NOTIFY DISSAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO THE ONSET OF CONSTRUCTION TO HAVE ALL EXISTING UTILITIES LOCATED AND CLEARLY MARKED.
 - IN AREAS SHOWN ON THE PLAN, ALL TOPSOIL, SUBSOIL AND OTHER NONWORKING MATERIALS SHALL BE REMOVED AND REPLACED WITH A CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, GRADED AS FOLLOWS:
 - NO MATERIAL LARGER THAN 2 INCHES.
 - UP TO 45% BY WEIGHT MAY BE RETAINED ON A #4 SIEVE.
 - OF THE FRACTION PASSING THE #4 SIEVE, THE FOLLOWING CRITERIA APPLY:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
#4	4.75 mm	100%
#50	0.30 mm	10% - 100%
#100	0.15 mm	0% - 20%
#200	0.075 mm	0% - 5%
 - A SIEVE ANALYSIS OF THE MATERIAL SHALL BE PERFORMED TO DETERMINE THAT IT MEETS THE GRADATION REQUIREMENTS NOTED ABOVE. THE INSTALLER SHALL PROVIDE A COPY OF THE SIEVE ANALYSIS RESULTS TO THE DESIGN ENGINEER.



LOCAL UPGRADE APPROVALS REQUESTED:

- REDUCTION OF THE REQUIRED SETBACK BETWEEN THE PROPOSED LEACHING FIELD AND EXISTING SURFACE WATER SUPPLY FROM 400' TO 200' PER 310 CMR 15.405(1)(g).
- REDUCTION OF THE REQUIRED SETBACK BETWEEN THE PROPOSED LEACHING FIELD AND EXISTING CATCH BASIN WHICH DISCHARGES TO A SURFACE WATER SUPPLY FROM 100' TO 12' PER 310 CMR 15.405(1)(g).
- USE OF A SIEVE ANALYSIS IN LIEU OF A PERCOLATION TEST PER 310 CMR 15.405(1)(i).
- REDUCTION OF THE REQUIREMENT OF A TWELVE INCH SEPARATION BETWEEN THE INLET AND OUTLET TEES AND HIGH GROUNDWATER, PROVIDED ALL BOOTS OR PIPE JOINTS ARE SEALED WITH HYDRAULIC CEMENT OR INSTALLED WITH WATER TIGHT SLEEVES AND THE TANK IS PROVEN WATER TIGHT PER 310 CMR 15.405(1)(d).
- REDUCTION OF THE REQUIRED NUMBER OF DEEP HOLES PER DISPOSAL AREA FROM 2 TO 1 PER 310 CMR 15.405(1)(k).

*THE CONTRACTOR IS RESPONSIBLE FOR THE EXISTING 1500 GALLON SEPTIC TANK TO BE PUMPED AND INSPECTED PRIOR TO THE START OF CONSTRUCTION. IF UPON INSPECTION, THE TANK IS NOT FOUND TO BE STRUCTURALLY SOUND, THE TANK MUST BE REPLACED BY WITH A NEW 1500 GALLON PRE-CAST H10 CONCRETE SEPTIC TANK.

IF THE INVERTS OF THE TANK ARE SUCH THAT FINISH COVER OVER THE STRUCTURE IS LESS THAN 12", THE ENGINEER IS TO BE CONSULTED FOR GRADING RECOMMENDATIONS.

SOIL CLASSIFICATION

SAND	= 85.01%
SILT	= 12.61%
CLAY	= 2.38%
UNCOMPACTED SOILS	SEE SIEVE ANALYSIS ATTACHED

SOIL STRATA LOGS

T.P.# 1

DEPTH	ELEV.
0	101.7
34"	98.9
46"	97.9
56"	97.0
72"	95.7
96"	93.7

PERC. RATE :
DATE OF TEST : 4-16-2020
E.O.M. AGENT : EDWARD CULLEN
SOIL EVALUATOR : KYLE DEVENSH

SIEVE SAMPLE TAKEN FROM C1 LAYER

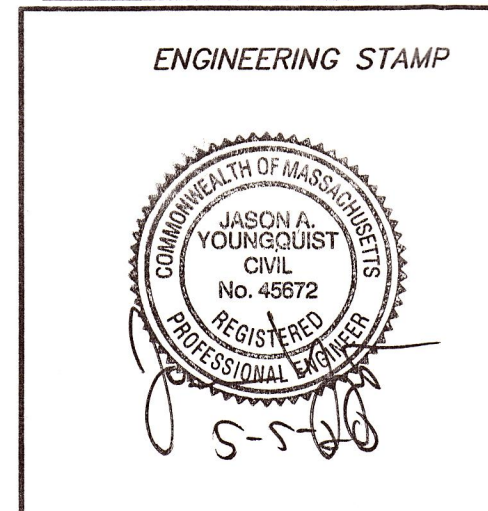
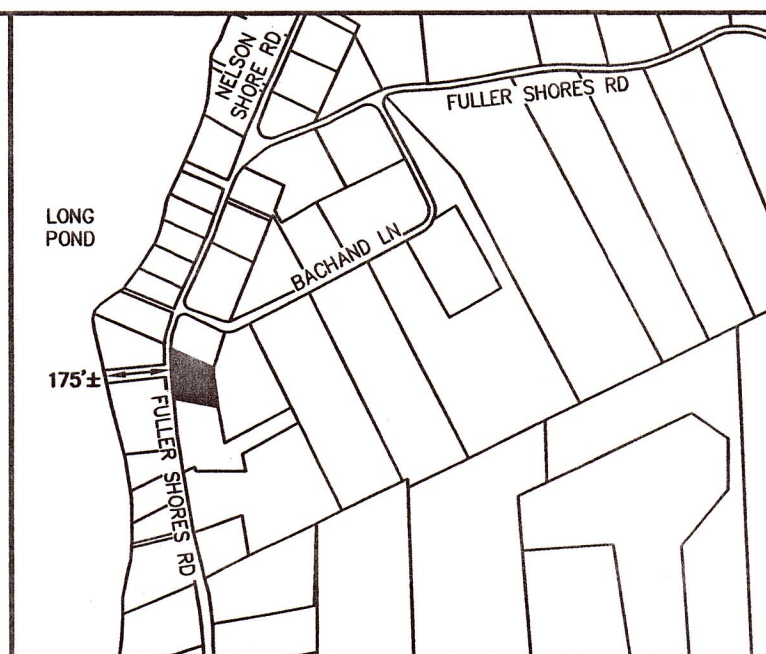
NOTE:
REMOVE & REPLACE SHADED LAYERS (SEE CONTRACTOR NOTE 6)

LEGEND

- 70 — EXISTING CONTOURS
- 70 — PROPOSED CONTOURS
- 128X0 EXISTING ELEVATIONS
- 128X0 PROPOSED ELEVATIONS
- PERC TEST HOLE
- EXISTING MONUMENTS
- ▽ GROUND WATER LEVEL
- ▽ ADJUSTED WATER LEVEL

LOCUS MAP

NOT TO SCALE



ENGINEERING STAMP

APPLICANT:
MIKE CORREIA
15 FULLER SHORES ROAD
LAKEVILLE, MA 02347

OWNER:
MIKE CORREIA
15 FULLER SHORES ROAD
LAKEVILLE, MA 02347

SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE

15 FULLER SHORES RD

(ASSESSORS MAP: 44 BLOCK: 2 LOT: 5)

LAKEVILLE MASSACHUSETTS

Outback Engineering Incorporated

165 EAST GROVE STREET
MIDDLEBOROUGH, MASS. 02346
TEL: 1-(508) 946-9231
FAX: 1-(508) 947-8873
www.outback-eng.com

REVISIONS

NO.	DATE	DESCRIPTION	BY

SHEET NUMBER
1 OF 2

SCALE: 1" = 10'

DATE: 5-5-20

DRAWING: OE-3545-BOH.DWG

DRAWN: T.E.M.

CHECKED: J.A.Y.

OE-3545