

STEPS

S 68° 16' 10" W

METALO

POST

5,763 S.F

BOULDER

LANDING

SHED

RINSE

STATION

LOT 5

(BLOCK C)

(SERVICED BY TOWN WATER)

WOOD

#24 **DWELLING**

FIN. FL. EL. = 7.8

ELECTRIC HAND HOLE

-SEPTIC TANK LIQUID

LEVEL = EL.4.96' (INVERT OUT)

XISTING TANK TO BE REPLACED WITH

SCALE: 1" = 10'

1,500 GALLON 0.5 MICROFAST TANK

SUBSURFACE BLOWER LOCATION

- APPROXIMATE LOCATION OF WATER

SERVICE FROM RECORD PLANS

- APPROXIMATE LOCATION OF

SEPTIC SYSTEM FROM TIE-CARD

CONTROL PANEL FINAL LOCATION TO BE

DETERMINED AT TIME OF INSTALLATION

REMOVE & RESET GAS

SERVICE AS NEEDED

IMPERMEABLE LINER 1

FROM EDGE OF SAS

REMOVE & REPLACE

BENCHMARK

TOP OF CONCRETE BOUND

ELEVATION = 7.12' NAVD88

WATER

SHUTOFF

GRAVEL

DRIVEWAY

FOUND

2 FT. ALL AROUND

(16) QUICK 4 INFILTRATORS

WITH STANDARD ENDCAPS

LOT 2

(BLOCK J)

DECK ___

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5 (310 CMR 15.00), AND THE LOCAL BOARD OF
- THERE SHALL BE NO CHANGES MADE IN THIS PLAN WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER AND LOCAL BOARD OF HEALTH.
- ALL ERRORS, OMISSIONS, AND CHANGE OF CONDITIONS AT THE SITE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PERFORMING THE
- ALL DISTURBED AREAS ARE TO BE LOAMED, SEEDED AND MAINTAINED TO
- FOR PROPER PERFORMANCE, SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND WHEN THE TOTAL DEPTH OF SCUM AND SOLIDS EXCEEDS
- THIS SYSTEM HAS BEEN DESIGNED FROM DATA REVIEWED AND ACKNOWLEDGED BY THE MASS. D.E.P. AND THE LOCAL BOARD OF HEALTH;
- AND CONFORMS WITH THE REQUIREMENTS OF THE STATE ENVIRONMENTAL CODE, TITLE 5. NO GUARANTEE OF PERFORMANCE IS EXPRESSED OR IMPLIED TEST HOLE INFORMATION SHOWN HEREON IS LIMITED TO SOIL CONDITIONS
- AN IMPLIED OR EXPRESSED WARRANTY OF SOIL CONDITIONS BEYOND LIMITS ALL ORGANIC AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE AREA DIRECTLY UNDER AND 5 FEET BEYOND THE PROPOSED LEACHING
- FACILITY. THIS AREA MUST BE BACKFILLED TO THE ELEVATIONS INDICATED ON THESE PLANS WITH SELECT ON-SITE OR IMPORTED SOIL MATERIAL. CONSISTING OF CLEAN GRANULAR SAND OR OTHER GRANULAR MATERIAL, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS SHALL NOT BE USED. THE FILL MATERIAL SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5 - 310 CMR SECTION 15.255 (3) AND SHALL HAVE PERCOLATION RATE OF BETWEEN TWO AND FIVE
- ALL STONE MUST BE DOUBLE WASHED AND FREE FROM FINES AND ANY ORGANIC MATERIAL AND MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER
- THE DESIGNER HAS NOT BEEN RETAINED BY THE CLIENT TO CONSTRUCT OR SUPERVISE THE CONSTRUCTION OF THE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS FOR INSPECTION OF INSTALLATION OF THE SYSTEM WITH THE LOCAL BOARD OF HEALTH.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND
- . TIGHT JOINT PIPING MATERIAL TO CONSIST OF POLYVINYL CHLORIDE (P.V.C.)
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER FOR CONSTRUCTION INSPECTION AFTER EXCAVATION FOR THE LEACHING BED (PRIOR TO THE PLACEMENT OF STONE) AND ALSO AFTER PLACEMENT OF PIPE & STONE PRIOR
- DESIGN ENGINEER SHALL CERTIFY CONSTRUCTION OF SYSTEM AND MATERIALS INSTALLED. THE CONTRACTOR SHALL PROVIDE A SIEVE ANALYSIS OF THE FILL MATERIAL REQUIRED. AN AS-BUILT PLAN SHALL BE SUBMITTED TO
- NO RUBBER TIRE CONSTRUCTION MACHINERY SHALL DRIVE OVER THE PROPOSED SEPTIC BED EXCAVATION DURING CONSTRUCTION.
- . DIG-SAFE AND ALL OTHER NECESSARY AUTHORITIES SHALL BE NOTIFIED FOR
- WATER SERVICE LINE SHALL BE LOCATED AND MARKED PRIOR TO ANY EXCAVATING AND 10' MIN. SETBACK DISTANCE FROM SAID SERVICE TO THE
- 3. ALL WATER LINES WITHIN 10' OF SEPTIC SYSTEM COMPONENTS SHALL BE



NO	DESCRIPTION	BYLAW REQUIRED	TITLE 5 REQUIRED	PROPOSED	WAIVER
1	SOIL ABSORPTION SYSTEM TO GROUNDWATER	5 FT.	5 FT.	4 FT.	1 FT.
2	SOIL ABSORPTION SYSTEM TO PROPERTY LINE	10 FT.	5 FT.	5 FT.	5 FT.
3	SOIL ABSORPTION SYSTEM TO STREET	10 FT.	10 FT.	3 FT.	7 FT.
4	PUMP CHAMBER TO FOUNDATION	10 FT.	10 FT.	6 FT.	4 FT.
5	MICROFAST TANK TO FOUNDATION	10 FT.	10 FT.	6 FT.	4 FT.
6	MICROFAST TANK TO PROPERTY LINE	10 FT.	10 FT.	4 FT.	6 FT.
7	SOIL ABSORPTION SYSTEM TO WETLAND	150 FT.	50 FT.	64 FT.	86 FT.
8	EXTENT OF UNSUITABLE SOIL STRIPOUT	5 FT.	5 FT.	2 FT.	3 FT.
A 4	0 MIL POLI-LINER IS PROPOSED AROUND THE PER	IMETER OF T	HE SOIL ABS	ORPTION SYS	TEM TO

PROVIDE THE SAME PROTECTION AS THE REQUIRED 15' MINIMUM BREAKOUT SETBACK.

GENERAL NOTES

LOCATIONS ARE BASED ON AN "ON THE GROUND" INSTRUMENT SURVEY AND ELEVATIONS BASED ON THE NAVD 1988 DATUM. COORDINATE SYSTEM USED IS THE MA-MAINLAND COORDINATE SYSTEM, DATUM: NAD 83. UNITS: U.S. SURVEY FEET.

THE FINISHED FLOOR ELEVATION (FIN. FL. EL.) SHOWN HEREON IS BASED ON AN ASSUMED 1" LOWER THAN THE SURVEYED THRESHOLD ELEVATION. AN INTERIOR INSPECTION OF BUILDINGS WAS NOT PERFORMED.

ZONING DISTRICT: R-40

WORK AREA LIES COMPLETELY WITHIN PREVIOUSLY DISTURBED BUFFER ZONE AREAS.

 CONCRETE BOUND STONE BOUND

IRON PIPE FOUND

WATER SHUTOFF

CONIFEROUS TREE

DECIDUOUS TREE

- OVERHEAD WIRES

MEAN HIGH WATER (MHW)

UTILITY POLE

GUY POLE

GUY WIRE

SIGN

LIGHT POLE

CATCH BASIN SQUARE

ROD CAP

HYDRANT

LEGEND

TREE LINE

STONE WALL

——x——x——x—— PICKET ROW

POST & RAIL FENCE

STOCKADE FENCE

TOP OF COASTAL BANK FLOOD ZONE BOUNDARY

CONSTRUCTION

— ОНW ——

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D

PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION OF AE (ELEV 15 AND 16) BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 25001C0501J, WITH A MAP EFFECTIVE DATE OF JULY 16, 2014.

THIS LOT IS NOT LOCATED WITHIN A DEP APPROVED ZONE II WELLHEAD PROTECTION AREA.

THIS LOT IS NOT MAPPED WITHIN A MESA NATURAL HERITAGE AND ENDANGERED SPECIES AREA.

DEED REFERENCE: CERTIFICATE 201084 PLAN REFERENCE: LC PLAN 11468-B (SH 2)

OWNER: THOMAS TABORELLI PO BOX 3025, BUZZARDS BAY, MA 02532-3025

NOTICE
THIS PLAN MAY NOT BE ADDED TO, DELETED FROM, OR ALTERED IN ANY WAY BY ANYONE OTHER THAN CAPE & JNLESS AND UNTIL SUCH TIME AS AN ORIGINAL (RED) STAMP APPEARS ON THIS PLAN NO PERSON OR PERSONS, MUNICIPAL OR PUBLIC OFFICIAL MAY RELY UPON THE INFORMATION CONTAINED HEREIN; AND THIS PLAN REMAINS THE PROPERTY OF CAPE AND ISLANDS ENGINEERING, INC.

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2/3/21	REVISE SEPTIC DESIGN TO INCLUDE A MICROFAST TANK		RLR
12/18/20	ADD SOIL TEST INFO, REVISE SEPTIC DESIGN ELEVATIONS & CALCULATIONS	RLR	RLR
DATE	DESCRIPTION	BY	CHK
PREPAR	RED FOR:		

THOMAS TABORELLI PO BOX 3025 BUZARDS BAY, MA 02532-3025

PROJECT:

24 NORTH BEACH AVENUE BOURNE, MASSACHUSETTS

SHEET NO.: 1 OF 1 DATE: OCTOBER 21, 2020 DRAWN BY: MPR CHECKED BY: MC



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MASHPEE, MA 02649 SEPTIC DESIGN PLAN

(NO INCREASE IN FLOW) ASSESSORS INFORMATION: MAP 30.2 PARCEL 87 RECEIVED

