

# INVERT ELEVATIONS:

4" INVERT AT BUILDING	99.75
4" INVERT AT MICRO-FAST UNIT (IN)	99.55
4" INVERT AT MICRO-FAST UNIT (OUT)	99.30
4" INVERT AT D-BOX (IN) 4" INVERT AT D-BOX (OUT)	99.26
4" INVERT AT D-BOX (OUT)	99.09

INVERTS AT LEACHING FACILIT	Y:
4" INVERT AT INTO CHAMBER FIELD	99.04
ELEVATION AT TOP OF CHAMBERS	99.49
ELEVATION AT BOTTOM OF CHAMBERS	98.79
GROUNDWATER ELEVATION VIA FRIMPTER METHOD	92.69

## DESIGN CRITERIA:

#### DESIGN FLOW PER LOCAL REG.:

HOUSING FOR THE ELDERL <u> PER 310 CMR15.203</u> REQUIRED SEPTIC TANK. \_\_\_300\_\_\_ *GAL*. 150 GALS SEPTIC TANK PROVIDED = 1500 GAL.

SIZE OF LEACHING FACILITY REQUIRED: DESIGN PERC RATE: \_\_\_\_\_ <2 \_\_\_\_ MIN. /IN.

0.74 g.p.d/s.f.  $150 \div 0.74 = 202 \text{ S.F. (Min.)}$ CONVENTIONAL SYSTEM 12' W X 17'L

SIZE OF LEACHING FACILITY PROVIDED:

USE: CULTEC FIELD DRAIN CONTACTOR C-4 6.7 SF/LF IN A BED CONFIGURATION WITH STONE MUST REFER TO 310 CMR 15.253

USE TWO ROWS OF TWO CHAMBERS WITH TWO FEET OF STONE ALL AROUND 12'W X 20'L =240 SF 240 SF X 0.74 GPD/SF=177.6 GPD

NITROGEN LOADING REQUIRED, 660 GPD/\*AC \*PER TITLE 5, AC=40,000 SF SITE AREA=11,478.99 SF

(11,478.99/40,000) X 660 GPD/\*AC=189 GPD

# N. T. S.



**REVISIONS:** DESCRIPTION DATE REV. PER BOH 11/16/20

### *GENERAL NOTES:*

THIS PLAN IS FOR DESIGN AND CONSTRUCTION OF THE SEWAGE DISPOSAL FACILITY ONLY.

ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO MAS D.E.P. TITLE 5 AND LOCAL BOARD OF HEALTH REGULATIONS.

ALL PIPES SHALL BE 4" PVC SCH 40 OR EQUAL.

THERE ARE NO KNOWN WELLS LOCATED WITHIN 150 FT OF THE PROPOSED LEACHING FACILITY NOR ANY WELLS PROPOSED WITHIN 150 F OF ANY KNOWN LEACHING FACILITY THIS SYSTEM **IS NOT** DESIGNED FOR THE USE OF A GARBAGE GRINDER.

WITHIN LIMIT OF EXCAVATION REMOVE ALL TOPSOIL( A), SUBSOIL, (B) AND OTHER UNSUITABLE MATERIAL BELOW EXISTING GRADE.

REPLACE WITH CLEAN WASHED SAND OR OTHER CLEAN GRANULAR MATERIAL IN CONFORMANCE WITH 310 CMR 15.255.

EXISTING UTILITIES AS SHOWN ON THIS DRAWING(S) ARE APPROXIMATE THE CONTRACTOR SHALL BE RESPON SIBLE FOR PROPER LOCATION AND THE COORDINATION OF PROPOSED CONSTRUCTION ACTIVITY WITH DIG-SAFE AND THE APPLICABLE UTILITY COMPANY(S). THE CONTRACTOR SHALL MAINTAIN ANY EXISTING UTILITY SYSTEM IN SERVICE. DIG-SAFE WILL BE NOTIFIED PER STATE OF MASS-ASCHUSETTS STATUTE CHAPTER 82, SECTION 409 AT TEL. 811. THE ENGINEER DOES NOT

GUARANTEE THE ACCURACY OF, OR THAT ALL UTILITIES AND SUBSURFACE STRUCTURES ARE SHOWN. LOCATIONS AND ELEVATIONS, IF ANY, OF UNDERGROUND UTILITIES ARE TAKEN FROM RECORD PLANS. THE CONTR-ACTOR SHALL VERIFY SIZE, LOCATION AND INVERTS OF UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

NO CHANGES ARE TO BE MADE IN THE FIELD WITHOUT THE APPROVAL OF THE DUXBURY BOARD OF HEALTH AND THE DESIGN ENGINEER.



11/16/2020

PREPARED BY: outh hore

Consultants, Inc.

urvey

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PROJECT TITLE:

NEW CONSTRUCTION SEWAGE DISPOSAL SYSTEM DESIGN

ΑТ

O EAST ST. DUXBURY, MA. ASSRS # 045-045-000

PREPARED FOR:

JOB No. 1902

LOVENDALE LLC 114 ONION HILL RD. DUXBURY, MA 02332

DATE: NOVEMBER 11, 2020 COMP./DESIGN: A. ESPOSITO CHECK: M. D. CASEY DRAWN: A. ESPOSITO FIELD: J.M./P.P.APPROVED: M. D. CASEY DWG.No. 1902 SEP SHEET

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