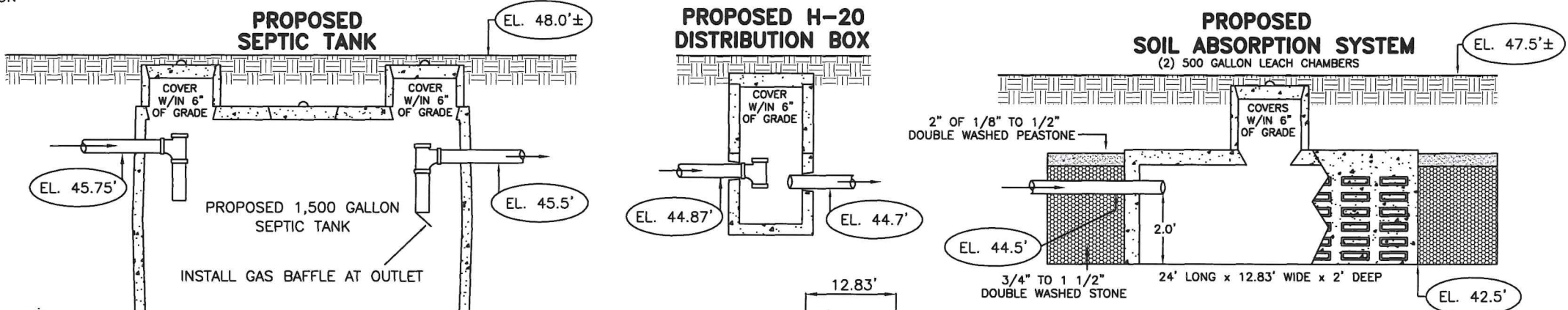


SECTION DETAIL – COMPONENTS

NOT TO SCALE



DESIGN CALCULATIONS

FLOW RATE:
 3 BEDROOM DWELLING = 330 G/P/D REQUIRED
 (110 G/P/D PER BEDROOM x 3 BEDROOMS)
 NO GARBAGE GRINDER ALLOWED

PROPOSED SEPTIC TANK:
 330 G/P/D x 2 = 660 G/P/D REQUIRED
 USE 1500 GALLON SEPTIC TANK

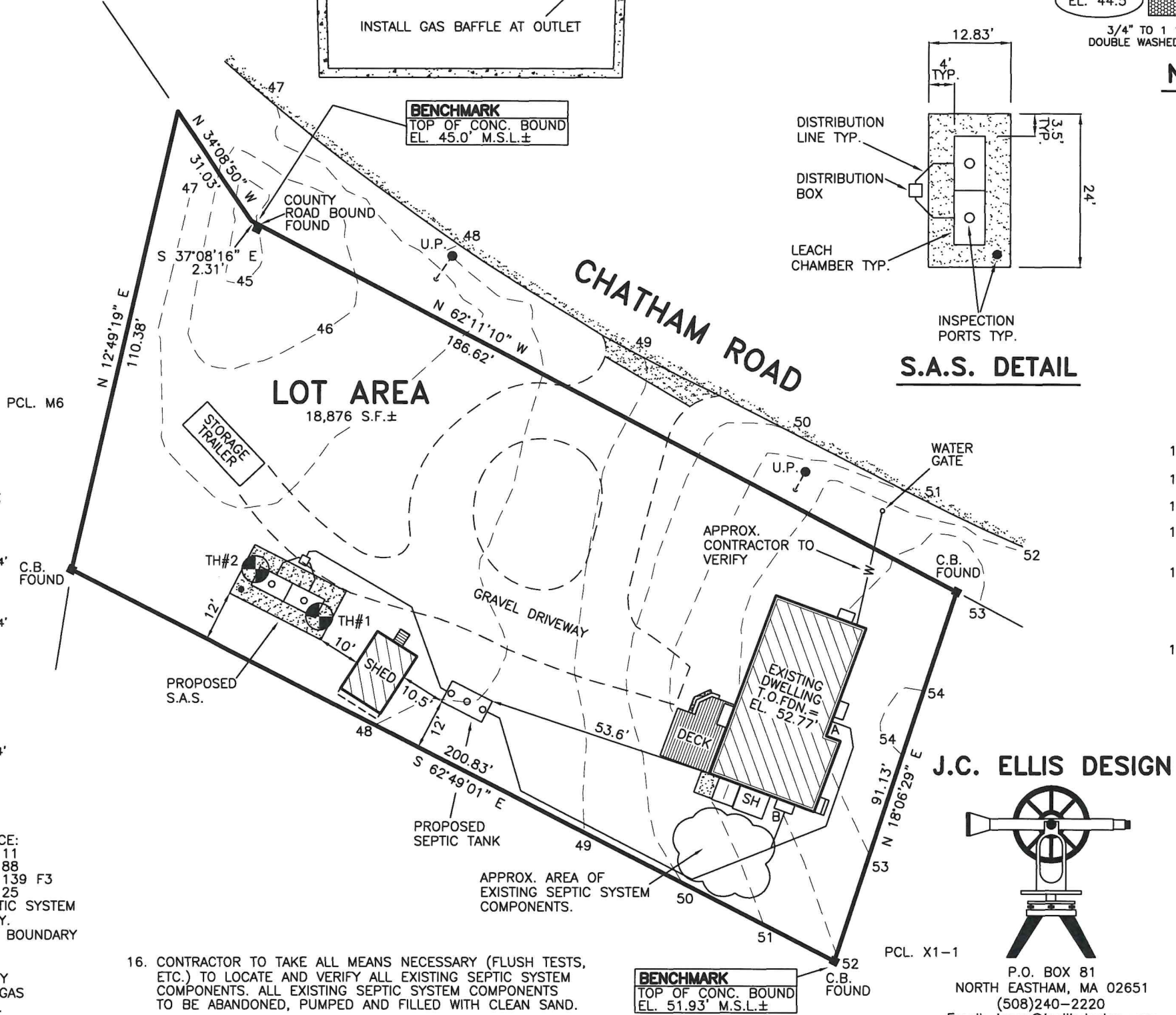
PROPOSED SOIL ABSORPTION SYSTEM:
 PERC RATE = <2 MIN/IN – CLASS I SOIL
 SIDEWALL = (24 + 12.83)(2)(2) = 147.32 S.F.
 BOTTOM: (24)(12.83) = 307.92 S.F.
 (147.32 + 307.92)(0.74) = 336.87 G/P/D PROVIDED

USE: (2) 500 GALLON LEACH CHAMBERS W/ STONE AS SHOWN IN DETAIL.

DEEP HOLE DATA

PERFORMED BY: JASON C. ELLIS, R.S., S.E.
 WITNESSED BY: MEREDITH BALLINGER, HARWICH BOH
 TEST DATE: OCTOBER 22, 2024

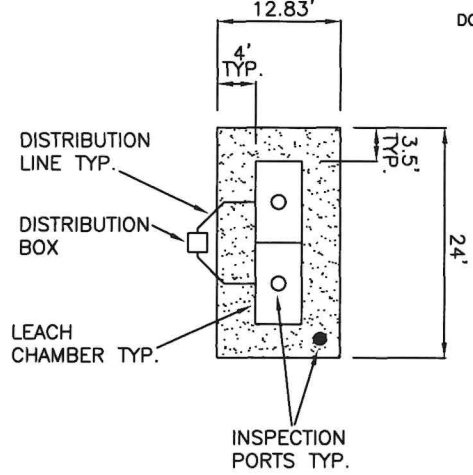
#1		#2	
DEPTH	ELEV.	DEPTH	ELEV.
0.00'	47.8'	0.00'	47.5'
1.0'	46.8'	1.66'	45.84'
1.83'	45.97'	2.66'	44.84'
10.0'	37.8'	10.66'	36.84'
NO WATER ENCOUNTERED		NO WATER ENCOUNTERED	



NOTES

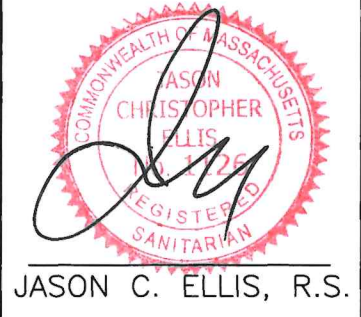
- PROPOSED D-BOX TO BE H-20 RATED. ALL OTHER COMPONENTS WITH ANY ANTICIPATED VEHICULAR TRAFFIC TO BE H-20 RATED.
- ELEVATION DATUM IS FROM MA GIS.
- MUNICIPAL WATER IS AVAILABLE.
- ALL CONSTRUCTION TO CONFORM WITH 310 CMR 15.000 AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
- INSTALLER/CONTRACTOR TO REVIEW & VERIFY ALL ELEVATIONS AND DETAILS AND REPORT ANY DISCREPANCIES TO DESIGNER PRIOR TO CONSTRUCTION OR ASSUME ALL RESPONSIBILITY.
- INSTALLER/CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SAFE WORK AREA, VERIFYING ALL UTILITIES AND NOTIFYING DIG SAFE PRIOR TO CONSTRUCTION.
- ANY CHANGES TO OR DEVIATIONS FROM THIS PLAN MUST BE APPROVED IN WRITING BY J.C. ELLIS DESIGN CO. AND BOARD OF HEALTH.
- FINISH COVER OVER COMPONENTS IS NOT TO EXCEED 3' PER 310 CMR 15.000.
- ALL ABANDONED SEPTIC SYSTEM COMPONENTS TO BE PUMPED DRY AND FILLED WITH CLEAN SAND OR REMOVED AND REPLACED WITH CLEAN SAND.
- ALL COMPONENTS TO BE PROVIDED WITH WATERTIGHT ACCESS PORTS WITHIN 6" OF FINISH GRADE.
- ALL SEPTIC TANKS, DISTRIBUTION BOXES AND PIPING TO BE INSTALLED WATERTIGHT.
- NO KNOWN WELLS EXIST WITHIN 100' OF PROPOSED LEACH AREA.
- THIS IS NOT A CERTIFIED PLOT PLAN AND UNDER NO CIRCUMSTANCES IS THIS PLAN TO BE USED FOR BUILDING OR ZONING PURPOSES.
- LEACH AREA TO BE PROVIDED WITH AT LEAST ONE INSPECTION PORT CONSISTING OF A PERFORATED FOUR INCH PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE STONE. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE WITHIN 3" OF GRADE.
- CONTRACTOR TO TAKE ALL MEANS NECESSARY (FLUSH TESTS, ETC.) TO LOCATE AND VERIFY ALL EXISTING BUILDING SEWERS. ALL EXISTING BUILDING SEWERS TO BE CHANGED, ONLY IF NECESSARY, TO LOCATIONS AND ELEVATIONS SPECIFIED.

S.A.S. DETAIL



SEPTIC SYSTEM UPGRADE PLAN

SUBJECT: 131 CHATHAM ROAD HARWICH, MA	
PREPARED FOR: PAULINE M. DOLIBER LIFE ESTATE 131 CHATHAM ROAD HARWICH, MA 02645	
ASSESSOR'S MAP 42 PARCEL M7	SCALE: 1"=30'
DATE: OCTOBER 22, 2024	SHEET 1 OF 1



SURVEY PLAN REFERENCE:
 PLAN BOOK 556 PAGE 11
 PLAN BOOK 329 PAGE 88
 PLAN BOOK 100 PAGE 139 F3
 PLAN BOOK 636 PAGE 25
 THIS PLAN IS FOR SEPTIC SYSTEM DESIGN PURPOSES ONLY.
 THIS PLAN IS NOT FOR BOUNDARY DETERMINATION.
 PROPERTY OWNER AND CONTRACTORS TO VERIFY ALL WATER LINES AND GAS UTILITIES ON PROPERTY.

16. CONTRACTOR TO TAKE ALL MEANS NECESSARY (FLUSH TESTS, ETC.) TO LOCATE AND VERIFY ALL EXISTING SEPTIC SYSTEM COMPONENTS. ALL EXISTING SEPTIC SYSTEM COMPONENTS TO BE ABANDONED, PUMPED AND FILLED WITH CLEAN SAND.

J.C. ELLIS DESIGN

P.O. BOX 81
 NORTH EASTHAM, MA 02651
 (508)240-2220
 Email: jason@jcellisdesign.com