

LOCUS
SCALE 1"=1000'

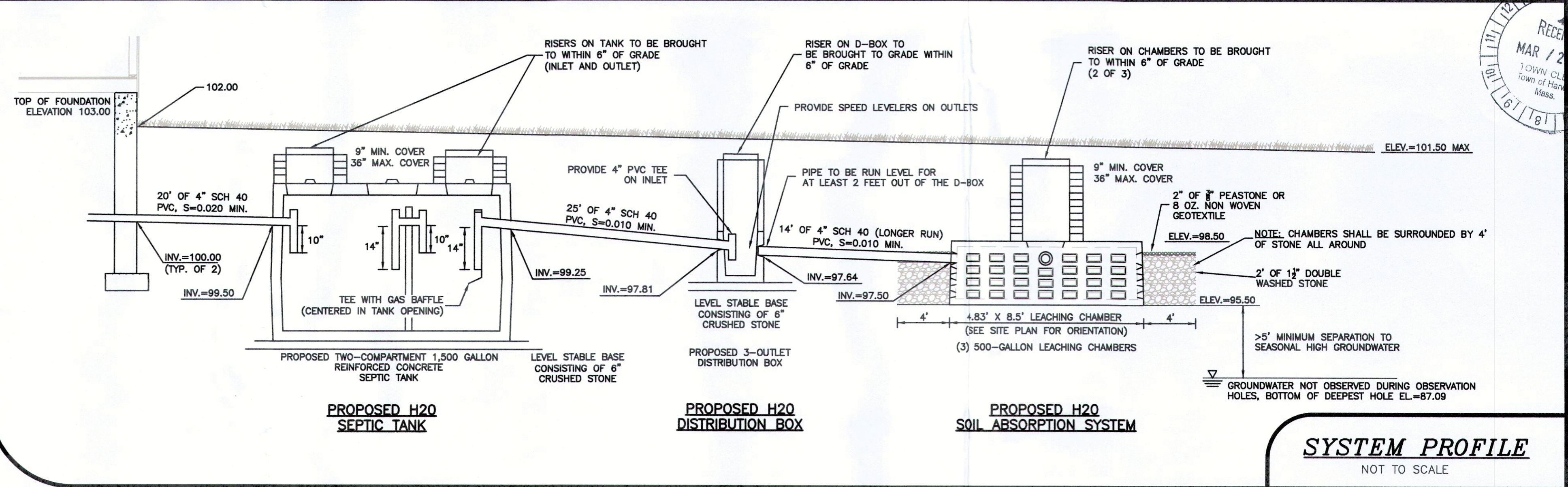
ETWMTS REALTY TRUST
MARY SHINKWIN, TR.
EILEEN T. WUSTENEY, TR.
BK. 31077 PG. 39
PLBK. 436 PG. 29
AM 51 PARC. 36-2

CHERYL L. PAVLAKIS FAMILY TRUST
CHERYL SERIJAN, TR.
CIF. 197472
LCP 33495-A
AM 51 PARC. M2

STEPHEN J. DECOTEAU
CIF. 200699
LCP 33495-A
AM 51 PARC. M1

BENCHMARK
TOP OF CONCRETE BOUND
ELEV.=101.25 (ASSUMED)

EXISTING GRADE PLANE CALCULATION
99.30 + 100.10 = 99.70
AVERAGE NATURAL GRADE (A.N.G.) = ELEV. 99.70'
TOP OF PROPOSED DWELLING = ELEV. 128.78'
HEIGHT OF PROPOSED BUILDING ABOVE A.N.G. = 29.08'



LEGEND

- 104 — PROPERTY LINE
- 104 — EXISTING CONTOUR
- - - 104 - - - PROPOSED CONTOUR
- - - CH/P - - - EXISTING OVERHEAD UTILITIES
- - - W - - - EXISTING WATER LINE
- - - G - - - EXISTING GAS LINE
- - - W - - - PROPOSED WATER LINE
- - - G - - - PROPOSED GAS LINE
- - - UGE/T - - - PROPOSED UNDERGROUND POWER/TELECOMM
- - - X - - - PROPOSED FENCE
- TP-1 LOCATION OF TEST PIT/PERC TEST
- 99.76 X EXISTING SPOT ELEVATION
- OFH EXISTING FIRE HYDRANT
- UP-O EXISTING UTILITY POLE
- EB/CB EXISTING CATCH BASIN
- BH BULKHEAD
- 101.50 PROPOSED SPOT GRADE SHOWING NATURAL GRADE

ZONING REQUIREMENTS

ZONING DISTRICT: RR	REQUIRED	PROVIDED
MINIMUM LOT AREA	40,000 SF	62,999 SF
MINIMUM FRONTAGE	150'	154.81'
MINIMUM FRONT YARD SETBACK	25'	68.5'±
MINIMUM SIDE YARD SETBACK	20'	(R)37.5'±/(L)37.4'±
MINIMUM REAR YARD SETBACK	20'	35.27'±
MAXIMUM PERCENT TOTAL BLDG COVERAGE	15%	2.5%±
MAXIMUM SITE COVERAGE	25%	8.5%±
MAXIMUM BUILDING HEIGHT	30'	29.08'

SITE INFORMATION

ADDRESS: 958 ROUTE 39, HARWICH
ASSESSORS MAP/LOT: 51/59
DEED BOOK/PG: 30893/039
PLAN BOOK/PG: 692/44

DESIGN CALCULATIONS

DESIGN FLOW
110 GALLONS/DAY/BEDROOM X 4 BEDROOMS = 440 GALLONS/DAY

TANK CAPACITY
200% DAILY FLOW = 880 GALLONS; USE 1,500 GALLON TANK

REQUIRED LEACHING CAPACITY
DESIGN PERC RATE = < 2 MIN/INCH
440 GPD / 0.74 GALLONS PER DAY PER SQ. FT. = 594.59 SQ. FT.

PROVIDED LEACHING CAPACITY
BOTTOM AREA = 12.83' X 33.50' = 429.80 SQ. FT.
SIDE AREA = 92.66' X 2.00' = 185.32 SQ. FT.
615.12 SQ. FT.

PROVIDED FLOW CAPACITY
= 455.18 GPD

TP-1	TP-2	TP-3	TP-4
0" O LOAMY SAND 10YR 3/2	0" O LOAMY SAND 10YR 3/2	0" O LOAMY SAND 10YR 3/2	0" O LOAMY SAND 10YR 4/2
2" A LOAMY M. SAND 7.5YR 5/4	2" A LOAMY M. SAND 10YR 4/8	2" A LOAMY M. SAND 7.5YR 4/4	2" A LOAMY M. SAND 7.5YR 4/8
4" B/C GRAVELLY SAND 10YR 6/4	4" B/C GRAVELLY SAND 10YR 5/4	4" B/C LOAMY C. SAND 10YR 5/4	4" B/C LOAMY C. SAND 10YR 5/4
8" C1 MED/CO SAND 10YR 6/4	8" C1 MED/CO SAND 10YR 6/4	8" C1 MED/CO SAND 10YR 7/3	8" C1 COARSE SAND 10YR 6/4
12" C2 FINE/MED SAND 2.5Y 7/3	12" C2 FINE/MED SAND 2.5Y 6/4	12" C2	12" C2 MED/CO SAND 10YR 6/4
MOTTLING: NONE WEEPING: NONE	MOTTLING: NONE WEEPING: NONE RATE: < 2 MIN/IN	MOTTLING: NONE WEEPING: NONE	MOTTLING: NONE WEEPING: NONE RATE: < 2 MIN/IN

DATE: SEPTEMBER 29, 2022
PERFORMED BY: RICK JUDD (SE 1165)
WITNESSED BY: CARRIE SCHOENER

SOIL PROFILES
NOT TO SCALE

GENERAL NOTES:

- NONE OF THE SUBJECT PROPERTY IS WITHIN THE LIMITS OF A FEM FLOOD HAZARD ZONE AS SHOWN ON PANEL NO. 2500100808, EFFECTIVE DATE JULY 16, 2014.
- THERE ARE NO STREAMS OR WETLANDS WITHIN 100- FEET OF THE PROPOSED WORK.
- THE SITE IS LOCATED WITHIN A ZONE II AREA.
- VERTICAL DATUM IS ASSUMED
- ALL WORK SHALL CONFORM TO THE TOWN OF HARWICH AND THE COMMONWEALTH OF MASSACHUSETTS CONSTRUCTION STANDARDS AND REGULATIONS. ANY REQUIRED SHORING OR BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- ALL JOINTS IN THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE MADE WATERTIGHT THROUGH THE USE OF ASPHALT OR SYNTHETIC POLYMER SEALERS OR HYDRAULIC CEMENT.
- ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED. DIGSAFE AND LOCAL UTILITY COMPANIES SHALL BE CONTACTED PRIOR TO ANY EXCAVATION OCCURRING.
- THE SEPTIC SYSTEM INSTALLER SHALL NOTIFY THE DESIGN ENGINEER 2 DAYS PRIOR TO BEGINNING INSTALLATION OF THE SEPTIC SYSTEM TO ALLOW FOR SCHEDULING OF INSPECTIONS
- WHERE APPLICABLE UNSUITABLE MATERIAL (A, B AND C HORIZONS OR FILL) ENCOUNTERED BELOW THE INVERT OF THE INLET TO THE SOIL ABSORPTION SYSTEM, SHALL BE REMOVED TO A DISTANCE 5' AROUND THE SYSTEM AND BROUGHT BACK TO THE APPROPRIATE ELEVATION WITH CLEAN SAND PER MASSACHUSETTS 310 CMR 15.00 REGULATIONS.
- NO PRIVATE WATER SUPPLY WELLS EXIST WITHIN 100' OF THE PROPOSED SEPTIC SYSTEM.
- NO GRAVEL PACKED PUBLIC WATER SUPPLY WELLS OR SURFACE WATER SUPPLY EXIST WITHIN 400' OF THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM.
- THIS DESIGN DOES NOT ALLOW FOR THE USE OF A GARBAGE GRINDER
- ELECTRIC SERVICE INSTALLATION SHALL BE COORDINATED WITH EVERSOURCE AND OWNER OR THE OWNER'S CONTRACTOR.
- TELEPHONE AND CABLE SERVICE LOCATION AND CONNECTION DETAILS SHALL BE COORDINATED WITH VERIZON, COMCAST AND THE OWNER OR OWNER'S CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITY SEPARATION MEET CODE AND THE REQUIREMENTS OF THOSE UTILITY COMPANIES HAVING JURISDICTION.
- WATER SERVICE CONNECTIONS SHALL BE COORDINATED BETWEEN THE TOWN OF HARWICH WATER DEPARTMENT AND THE OWNER OR CONTRACTOR.
- ALL GRADING AROUND THE DWELLING SHALL SLOPE AWAY FROM THE FOUNDATION AT A 2.0% MINIMUM SLOPE
- EXISTING CONDITIONS SURVEY PERFORMED BY PAUL E. SWEETSER, SEPTEMBER 2022

AM SITE DESIGN, LLC
Residential Site Design and Permitting
4 CRESTVIEW DRIVE
EAST SANDWICH, MA 02537
PHONE: (508) 400-2365

LOCATION: 958 ROUTE 39 HARWICH, MA 02645

CLIENT: DAVENPORT REALTY TRUST
20 NORTH MAIN STREET
SOUTH YARMOUTH, MA 02664

DRAWING TITLE: SUBSURFACE SEWAGE DISPOSAL SYSTEM
SITE PLAN AND PROFILE

SCALE: 1"=20' DATE: 11/12/2022 DRAWING NO. 1 of 1

REVISIONS

NO.	DATE	DESCRIPTION