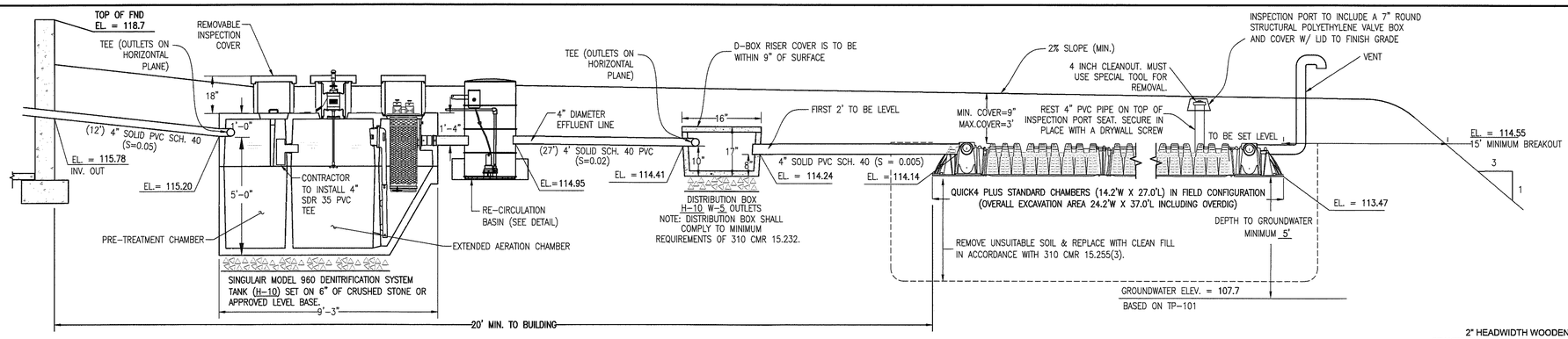
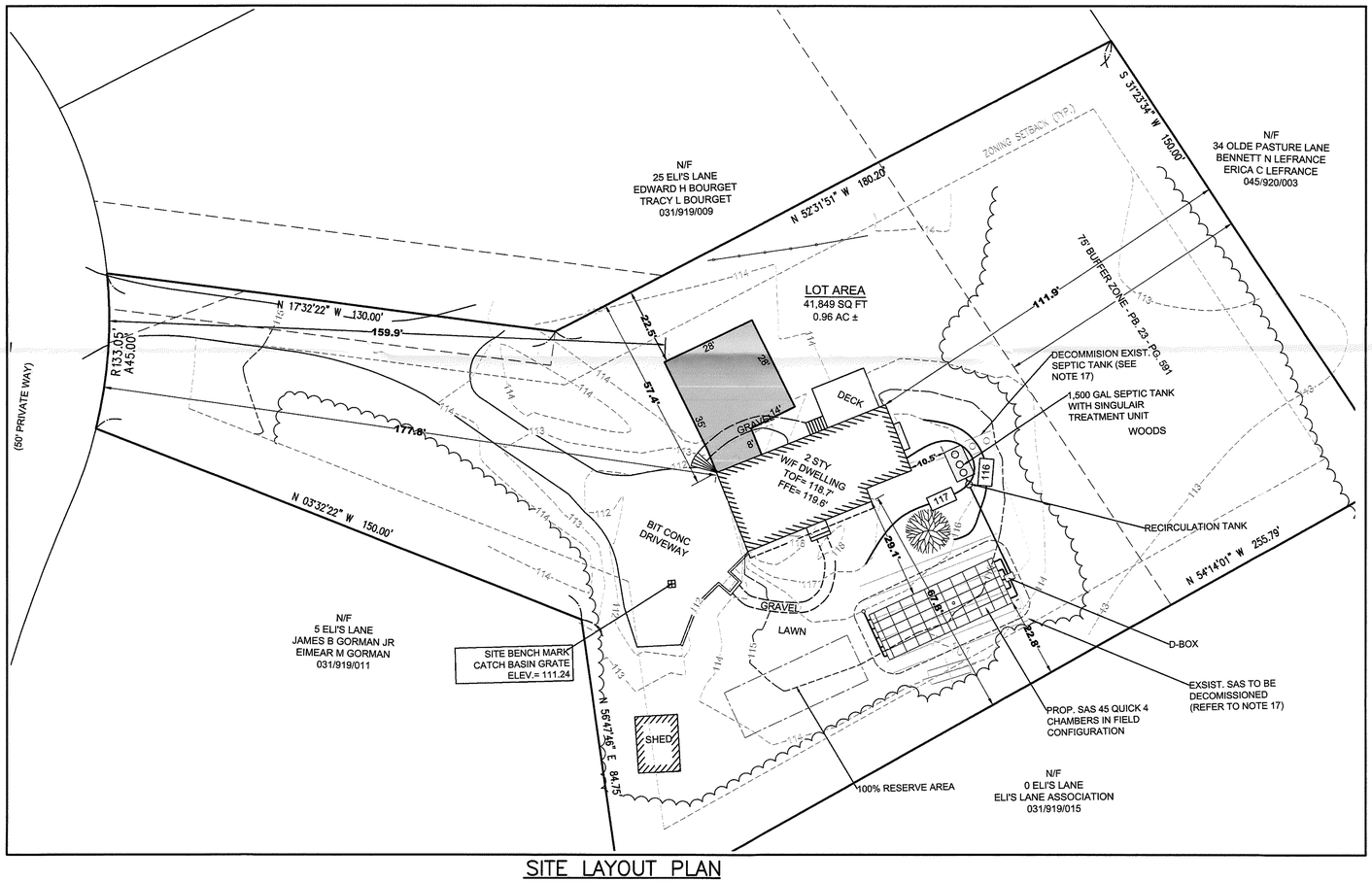


SEPTIC SYSTEM PROFILE

NOT TO SCALE



SITE LAYOUT PLAN

20 0 20 40 60

Scale 1" = 20'

LEGEND:

69	EXIST. CONTOURS	OHW	OVERHEAD WIRES
108	PROP. CONTOUR		UTILITY POLE W/ GUY WIRE
X106.67	PROP. SPOT ELEV		CONCRETE BOUND
	PROP. WATER LINE	TP #1	TEST PIT
	EXIST. TREELINE		
	EXIST. STONE WALL		DRAIN MANHOLE
	EXIST. WATER SHUT-OFF	W.S.O.	WATER SHUT-OFF

ABBREVIATIONS

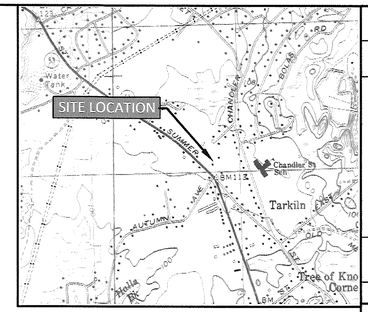
S.H.G.E	–	SEASONAL HIGH GROUNDWATER ELEVATION
T.O.F.	–	TOP OF FOUNDATION
B.F.E.	–	BASEMENT FLOOR ELEV.
S.A.S.	–	SOIL ABSORPTION SYSTEM
TOW	–	TOP OF WALL

ZONING TABLE

REQUIREMENT	REQUIRED	EXISTING	PROPOSED
DISTRICT:	RESIDENTIAL COMPATIBILITY		
MINIMUM LOT AREA	40,000 S.F.	41,849± S.F.	41,849± S.F.
MINIMUM SETBACKS:			
FRONT	25'	177.8'	159.9'
SIDE	15'	57.4' & 67.8'	25.5' & 67.8'
REAR	15'	111.9'	111.9'
MAX. BLDG. COVERAGE	15%	3.4%	5.5%

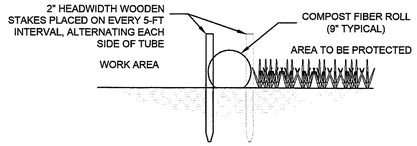
NOTES:

1. BUILDING COVERAGE INCLUDES THE STRUCTURE AND GARAGE.



SITE LOCATION

NOT TO SCALE



SECTION VIEW

COMPOST FIBER ROLL DETAIL

NOT TO SCALE

WATER SUPPLY MATRIX:

031-919-009	25 ELI'S LANE-TOWN WATER
031-919-015	0 ELI'S LANE-UNDEVELOPED
031-019-001	317 SUMMER STREET-TOWN WATER
031-919-011	5 ELI'S LANE-TOWN WATER
045-920-003	34 OLDE PASTURE LANE-TOWN WATER
045-920-009	35 OLDE PASTURE LANE-TOWN WATER

PROPERTY NOTES:

1. THE SUBJECT PROPERTY IS REFERRED TO BY THE DUXBURY ASSESSORS AS MAP 31 LOT 919.
2. THE SUBJECT PROPERTY IS LOCATED IN ZONE X, AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF (PLYMOUTH COUNTY), MASSACHUSETTS, MAP NUMBER 25023C0191 DATED JULY 17, 2012. THE SEPTIC SYSTEM IS NOT IN A FLOOD ZONE.
3. THE PROPERTY IS IN A ZONE II (WELL HEAD PROTECTION AREA).
4. THE PROPERTY IS NOT LOCATED IN A NHESP ESTIMATED HABITAT OF RARE WILDLIFE OR PRIORITY HABITAT OF RARE SPECIES.
5. THERE ARE NO WETLAND RESOURCE AREAS WITHIN 150' OF THE SUBJECT PROPERTY.
6. THE PROPERTY IS SERVICED BY MUNICIPAL WATER.

NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE LOCAL BOARD OF HEALTH AND RIVER HAWK ENVIRONMENTAL, LLC, AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS. THE REQUIRED INSPECTIONS ARE AS FOLLOWS:
   A. AFTER SAS EXCAVATION PRIOR TO PLACEMENT OF SAND.
   B. AFTER PLACEMENT OF TANKS AND LEACHING CHAMBERS.
   C. DURING BACKFILLING IN ACCORDANCE WITH 310 CMR 15.021 (2).
2. BENCHMARK IS CATCH BASIN GATE LOCATED IN DRIVEWAY. ELEV= 111.24(NAVD88)
3. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SEWAGE DISPOSAL FIELD DURING THE COURSE OF CONSTRUCTION OF THE SYSTEM.
4. NO FIELD MODIFICATIONS TO THE SEWAGE SYSTEM SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND THE LOCAL BOARD OF HEALTH.
5. UNLESS OTHERWISE NOTED ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH 310 CMR 15.000, AND ANY APPLICABLE LOCAL RULES.
6. SEPTIC TANK AND D-BOX SHALL BE MANUFACTURED BY SHEA CONCRETE OR APPROVED EQUAL AND SHALL WITHSTAND H-10 OR H-20 (AS INDICATED ON PLAN) LOADING CRITERIA.
7. GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERTIGHT SEAL. MORTAR ALL INLET AND OUTLETS NOT USED ON ALL CONCRETE STRUCTURES.
8. THE FIRST TWO FEET OF EACH LINE EXITING THE DISTRIBUTION BOX SHALL BE LEVEL.
9. THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER.
10. THERE ARE NO KNOWN PRIVATE WATER SUPPLY WELLS WITHIN 150' OF THE THE PROPOSED SOIL ABSORPTION SYSTEM.
11. IN ACCORDANCE WITH 310 CMR 15.221, ALL SYSTEM COMPONENT SHALL BE MARKED WITH MAGNETIC MARKING TAPE.
12. INSTALLER SHALL BE TRAINED AND CERTIFIED BY INFILTRATOR WATER TECHNOLOGIES, LLC., FOR INFORMATION ON THE QUICK 4 STANDARD CHAMBER SEE MASS DEP CERTIFICATION FOR GENERAL.
13. LOCATION OF UTILITIES ARE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION AND INVERTS OF UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
14. THE CONTRACTOR IS RESPONSIBLE UNDER MASSACHUSETTS STATE LAW TO NOTIFY DIGSAFE (800.322.4844) TO LOCATE UTILITIES IN THE PROJECT AREA 72 HOURS PRIOR TO THE START OF EXCAVATION.
15. NO VARIANCES ARE REQUESTED FROM TITLE 5 OR DUXBURY RULES AND REGULATIONS.
16. THERE ARE NO KNOWN IRRIGATION WELLS WITHIN 100' OF THE SEPTIC SYSTEM.
17. EXISTING SEPTIC COMPARTMENTS INCLUDING SEPTIC TANK, D-BOX, FIELD, SHALL BE DECOMISIONED IN ACCORDANCE WITH 310 CMR 18.354.

RECEIVED
MAR 31 2022
BOARD OF HEALTH
DUXBURY, MA 02332

REV.	DATE	DESCRIPTION	BY	APP.

DAVID AND ASHLEY RAUDONIS
15 ELI'S LANE
DUXBURY, MA 02331

03/28/2022

ROBERT S. REID No. 47443 REGISTERED PROFESSIONAL ENGINEER

River Hawk ENVIRONMENTAL
CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING
2183 OCEAN STREET, MARSHFIELD, MA 02050
781-538-4639 www.RiverHawkLLC.com

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
HRR	RSR	RSR	RSR

SITE LAYOUT AND SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN
15 ELI'S LANE
DUXBURY, MA

PLAN AND DETAILS

DATE:	PROJECT NO.	SCALE:
MARCH 28, 2022	00578-01-01	AS SHOWN

SP1.1