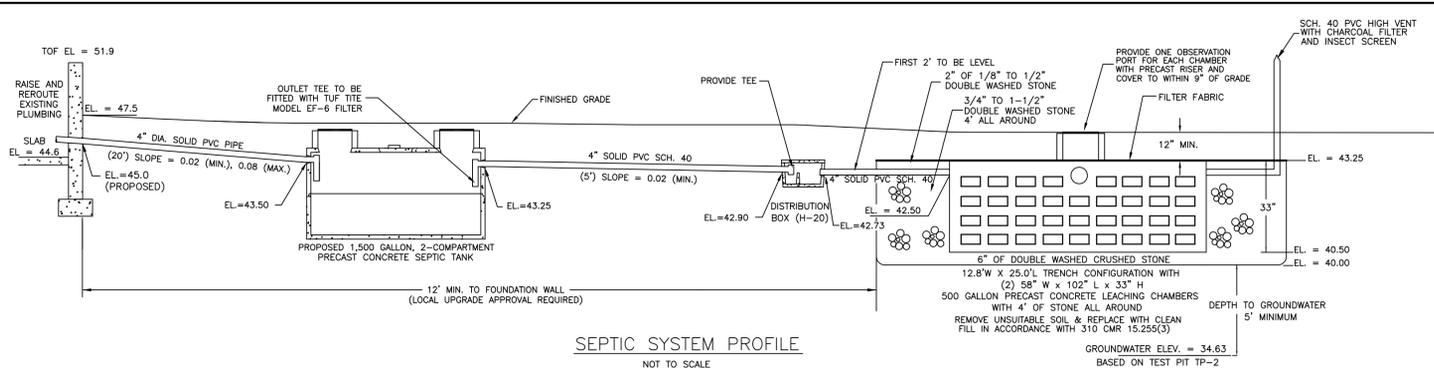


LOCUS PLAN



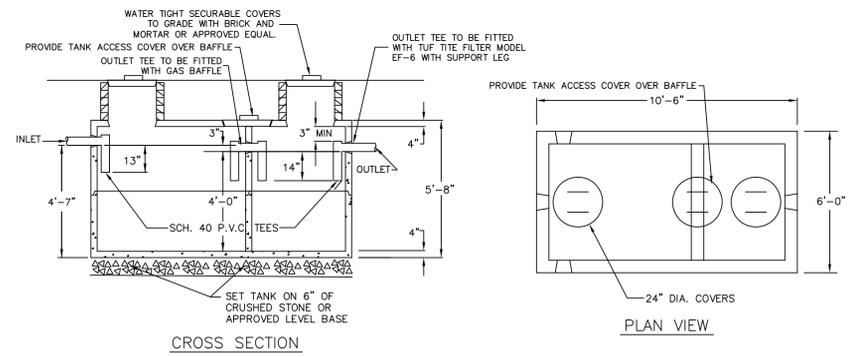
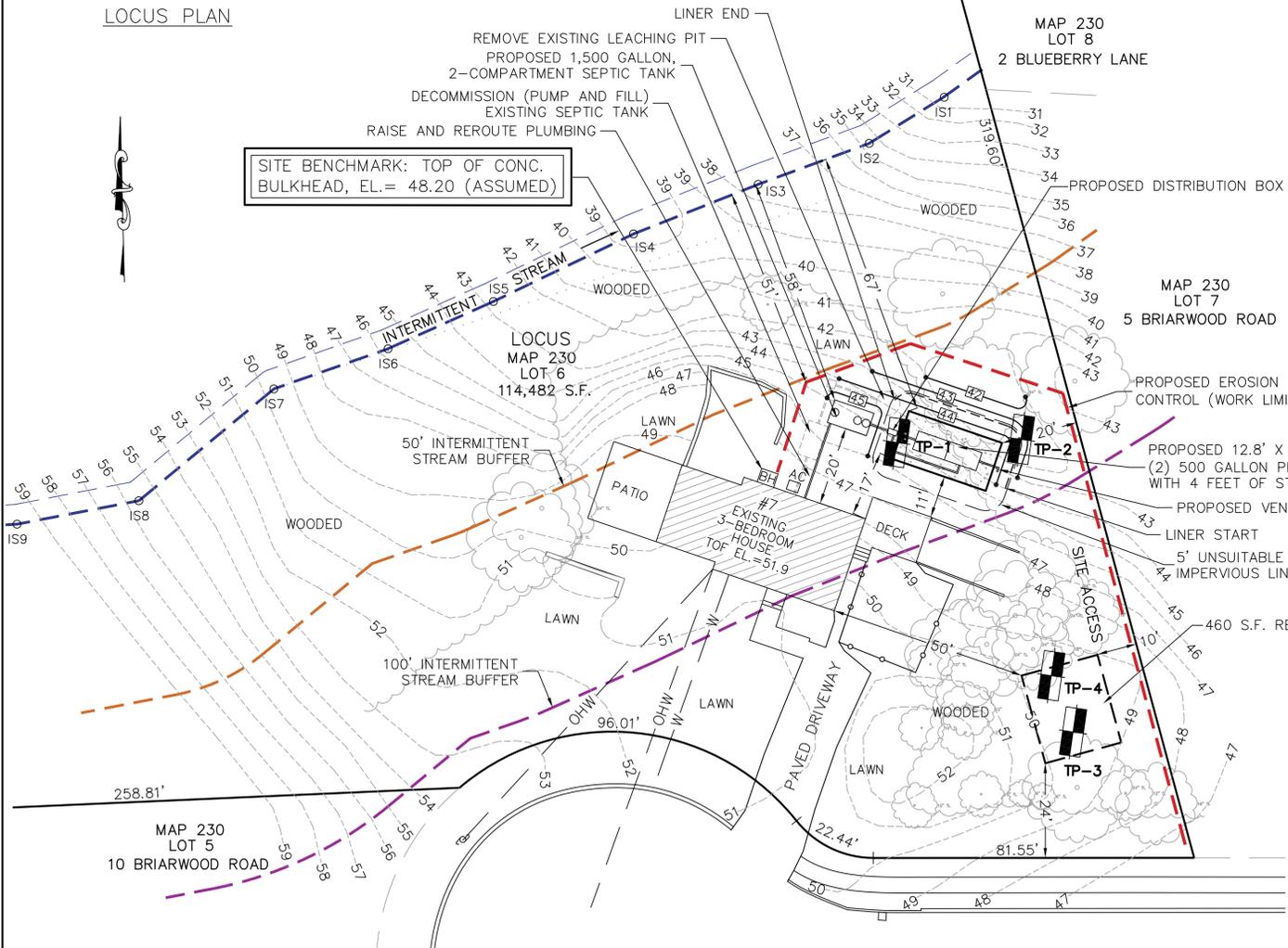
SEPTIC SYSTEM PROFILE

NOT TO SCALE

ELEVATION SCHEDULE:

DESCRIPTION	ELEVATION
4" INV. AT HOUSE (PROPOSED)	45.0
4" INV. AT SEPTIC TANK (IN)	43.50
4" INV. AT SEPTIC TANK (OUT)	43.25
4" INV. AT DIST. BOX (IN)	42.90
4" INV. AT DIST. BOX (OUT)	42.73
4" INV. INTO SAS	42.50
ELEV. AT BOTTOM OF CHAMBERS	40.50
ELEV. AT BOTTOM OF STONE	40.00
GROUNDWATER ELEVATION	34.63

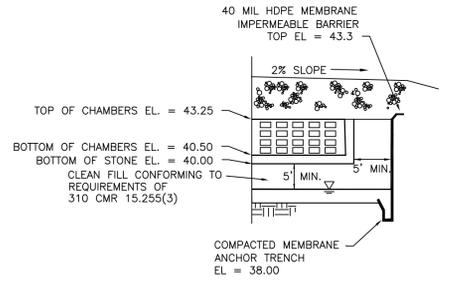
- NOTES:
- THE CONTRACTOR SHALL NOTIFY THE LOCAL BOARD OF HEALTH AND COLLINS ENGINEERING GROUP AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS.
 - SITE BENCHMARK IS THE TOP OF THE CONCRETE BULKHEAD AS INDICATED ON THIS PLAN, EL = 48.20 (ASSUMED DATUM).
 - HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SEWAGE DISPOSAL FIELD DURING THE COURSE OF CONSTRUCTION OF THE SYSTEM.
 - NO FIELD MODIFICATIONS TO THE SEWAGE SYSTEM SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND THE LOCAL BOARD OF HEALTH.
 - UNLESS OTHERWISE NOTED ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL RULES.
 - DISTRIBUTION BOX SHALL BE MANUFACTURED BY J&R PRECAST, INC. OR APPROVED EQUAL.
 - GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERTIGHT SEAL.
 - THE FIRST TWO FEET OF EACH LINE EXITING THE DISTRIBUTION BOX SHALL BE LEVEL.
 - THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A WATER FILTRATION SYSTEM BACKWASH.
 - SYSTEM COMPONENTS TO WITHSTAND H-10 LOADING CRITERIA.
 - PROPERTY LINE SHOWN IS APPROXIMATE ONLY AND IS NOT A RESULT OF A PROPERTY LINE SURVEY.
 - THE CONTRACTOR SHALL DECOMMISSION (PUMP & FILL OR REMOVE) THE EXISTING SEPTIC SYSTEM AND ALL ASSOCIATED PIPING IN ACCORDANCE WITH 310 CMR 15.354.
 - AS SHOWN, THERE ARE NO KNOWN WELLS WITHIN 100 FEET OF THE PROPOSED LEACH FIELD.
 - ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED (LOAM AND SEED) TO INCLUDE HISTORIC TEST PITS OUTSIDE CONSTRUCTION LIMITS.
 - CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY APPLICABLE PERMITS.
 - CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING DIG SAFE (888-DIGSAFE) AND ANY OTHER APPLICABLE UTILITY COMPANIES PRIOR TO STARTING WORK.
 - UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY.
 - CONTRACTOR WILL BE RESPONSIBLE FOR COMBINING LAUNDRY FLOW WITH SYSTEM.
 - CONTRACTOR RESPONSIBLE FOR IMPLEMENTING ALL O.S.H.A. PROCEDURES TO INCLUDE BUT NOT LIMITED TO CONFINED SPACE ENTRY PROCEDURES.
 - CONTRACTOR RESPONSIBLE FOR CONFIRMING LOCATION OF EXISTING LEACHING FACILITY.
 - CONTRACTOR TO CONFIRM EXISTING PLUMBING, BENCHMARK, AND SILL ELEVATIONS PRIOR TO CONSTRUCTION.
 - MAGNETIC LOCATOR TAPE TO BE PLACED ON ALL SEPTIC SYSTEM COMPONENTS.
 - USE APPROVED PLAN STAMPED BY BOARD OF HEALTH FOR CONSTRUCTION.
 - TREES TO BE REMOVED FOR SITE ACCESS AS REQUIRED.



CROSS SECTION

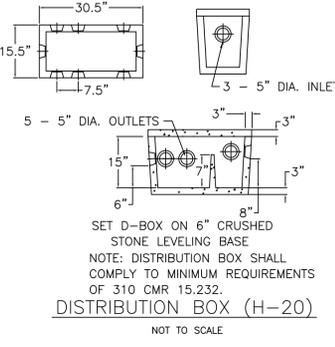
1,500 GALLON 2-COMPARTMENT PRECAST SEPTIC TANK

NOT TO SCALE



CROSS SECTION IMPERMEABLE BARRIER

NOT TO SCALE



DISTRIBUTION BOX (H-20)

NOT TO SCALE

DESIGN DATA:

DESIGN FLOW:
3 BEDROOMS x 110 GPD/BEDROOM = 330 GPD

SEPTIC TANK:
330 GPD x 2.0 = 660 GALLONS
USE NEW 1,500 GALLON SEPTIC TANK

SOIL ABSORPTION SYSTEM:
PERCOLATION RATE 3 MIN./INCH (CLASS 1 SOIL)
DESIGN LOADING RATE = 0.74 GPD/SF
LEACHING AREA REQ'D = (330 GPD) / 0.74 GPD/SF = 446 SF

USE: 12.8'W x 25.0'L x 2'H LEACHING TRENCH WITH (2) 500 GALLON PRECAST LEACHING CHAMBERS WITH 4 FEET OF STONE ALL AROUND

LEACHING AREA PROVIDED:
BOTTOM: 12.8' x 25.0' = 320 SF
SIDE: 75.6' x 2' = 151 SF
TOTAL: 320 SF + 151 SF = 471 SF > 446 SF REQUIRED

DAILY FLOW CAPACITY:
471 SF x 0.74 GPD/SF = 348 GPD > 330 GPD REQUIRED

WETLAND, EROSION CONTROL / BMP NOTES

- WETLAND DELINEATION PERFORMED BY BROOKE MONROE, BOTANIST.
- STRAW WATTLE (WORK LIMIT) TO BE INSTALLED PRIOR TO ANY ACTIVITY AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- CONTRACTOR RESPONSIBLE FOR IMPLEMENTING ALL CONSERVATION COMMISSION AND BOARD OF HEALTH DIRECTIVES.
- THE SITE IS NOT LOCATED IN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN.
- CONTRACTOR TO SHEEP STREET AT THE END OF EACH WORK DAY.
- THE DEP FILE NUMBER MUST BE POSTED ON SITE PRIOR TO STARTING WORK.
- A COPY OF THE REGISTRY RECORDED ORDER OF CONDITIONS MUST BE ON SITE AT ALL TIME DURING WORK.
- THE NAME AND CONTACT NUMBERS OF THE GENERAL CONTRACTOR MUST BE PROVIDED TO THE ENGINEER AND CONSERVATION COMMISSION PRIOR TO STARTING WORK.
- CONTRACTOR TO MONITOR, REPAIR AND MODIFY EROSION CONTROL TO ASSURE THAT THERE IS NO WETLAND RESOURCE AREA OR ABUTTER ENCROACHMENT.
- NO SUBSTITUTION OF THE EROSION CONTROL PRODUCT SPECIFIED ON THE PLAN IS PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE CONSERVATION AGENT.

SOIL DATA:

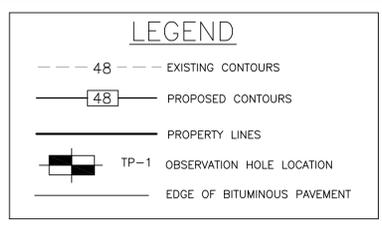
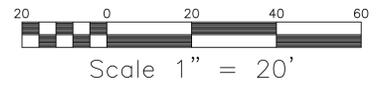
DATE: SEPTEMBER 12, 2024
PERFORMED BY: GEORGE R. COLLINS, PE, COLLINS CIVIL ENGINEERING GROUP, INC.
WITNESSED BY: STEVE DONATELLI, FRANKLIN BOH

SOIL HORIZ.	SOIL COLOR	TP-1	DEPTH	ELEV.	SOIL HORIZ.	SOIL COLOR	TP-2	DEPTH	ELEV.
		FILL/A	0	45.00			FILL/A	0	41.30
Bw 10YR 5/6	SANDY LOAM		66"				SANDY LOAM	16"	
			60" BOTTOM OF PERC HOLE					40"	37.97
C 2.5Y 6/3	LOAMY F. SAND		80"	38.33			LOAMY F. SAND	80"	34.63
			140"	33.33				108"	32.30

SOIL HORIZ.	SOIL COLOR	TP-3	DEPTH	ELEV.	SOIL HORIZ.	SOIL COLOR	TP-4	DEPTH	ELEV.
		FILL/A	8"	49.60			FILL/A	4"	49.50
Bw 10YR 5/6	SANDY LOAM		30"				SANDY LOAM	24"	
			50" BOTTOM OF PERC HOLE						
C 2.5Y 6/3	LOAMY F. SAND		100"	41.27			LOAMY F. SAND	96"	41.33

EST. SEASONAL HIGH GROUNDWATER ELEV. = 34.63
DESIGN PERC RATE = 1" IN 3 MIN.

NOTE: LAYERS FILL/A, B, & C TO BE REMOVED TO AN ELEVATION OF 37.50 AND REPLACED WITH CLEAN FILL IN ACCORDANCE WITH 310 CMR 15.255(3). UNSUITABLE SOIL TO BE REMOVED TO A DISTANCE OF 5'-0" BEYOND THE LIMITS OF



NOTE: PLAN TO ACCOMPANY A CONSERVATION FILING

REV.	DATE	DESCRIPTION	BY	APP.	DRAWING TITLE	SCALE:	AS SHOWN
					PLAN AND DETAILS SUBSURFACE SEWAGE DISPOSAL SYSTEM		
					PROJECT		DATE: 9-24-24
					CLIENT		DRAWN BY: SWR
					7 BRIARWOOD ROAD FRANKLIN, MA		DESIGNED BY: SWR
					7 BRIARWOOD ROAD, FRANKLIN, MA 02038		CHECKED BY: GRC
					COLLINS CIVIL ENGINEERING GROUP, INC. BRAintree - FALMOUTH - WEST BRIDGEWATER, MA CIVIL ENGINEERING - LAND SURVEY - L.S.P. SERVICES 225 SOUTH MAIN STREET, WEST BRIDGEWATER, MA 02379 TEL:508-580-2332 MOBILE: 617-347-1363 E-MAIL:GRCPE@AOL.COM		APPROVED BY: GRC
							DRAWING NO. PROJECT NO.
							24-157-4052

