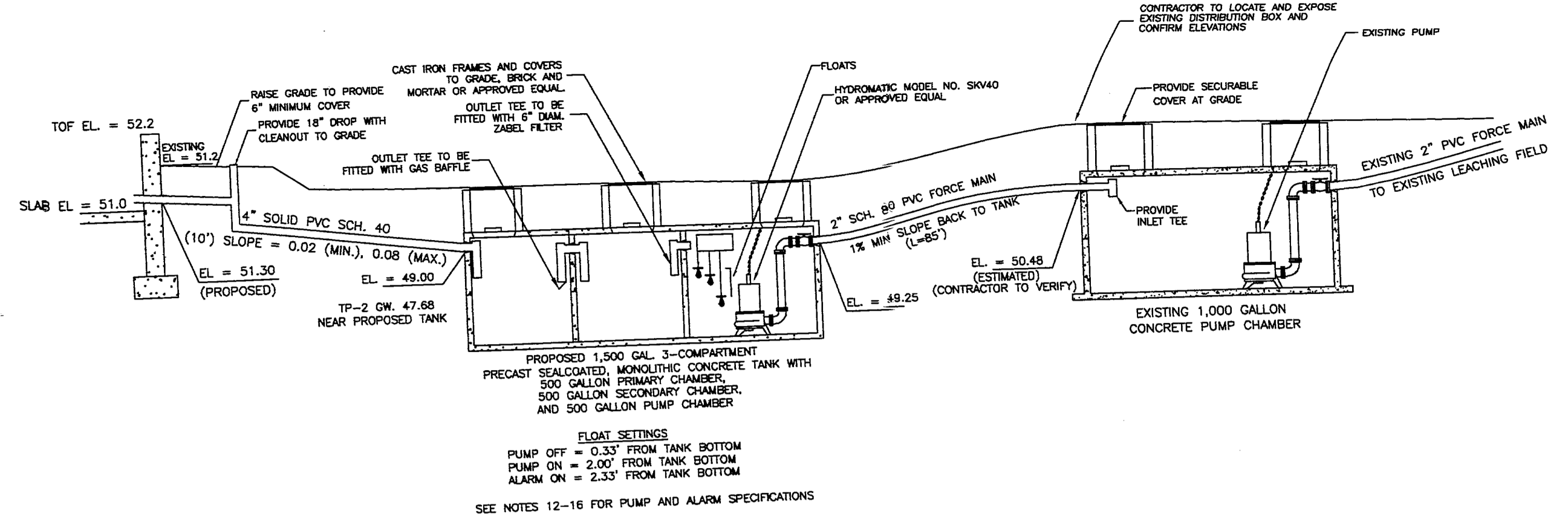


LOCUS PLAN

BUOYANCY CALCULATIONS 1,500 GALLON TANK:
 DOWNWARD FORCE: 1,500 GAL. TANK = 12,930 LBS.
 WEIGHT OF EMPTY TANK = 11,000 LBS.
 WEIGHT OF SOIL ABOVE TANK: 100 CF OF SOIL X 110 LB/CF OF SOIL = 23,930 LBS.
 DOWNWARD FORCE = 12,930 + 11,000 = 23,930 LBS.
 BUOYANT FORCE: (ASSUMES TANK FULLY SUBMERGED IN WATER)
 BUOYANT FORCE = 357 CF X 62.4 LB/CF = 22,277 LB
 BUOYANT FORCE = 357 CF X 62.4 LB/CF = 22,277 LB
 23,930 LB > 22,277 LB (DOWNWARD FORCE > BUOYANT FORCE)



ACCESSORY STRUCTURE SEPTIC SYSTEM PROFILE

NOTES:

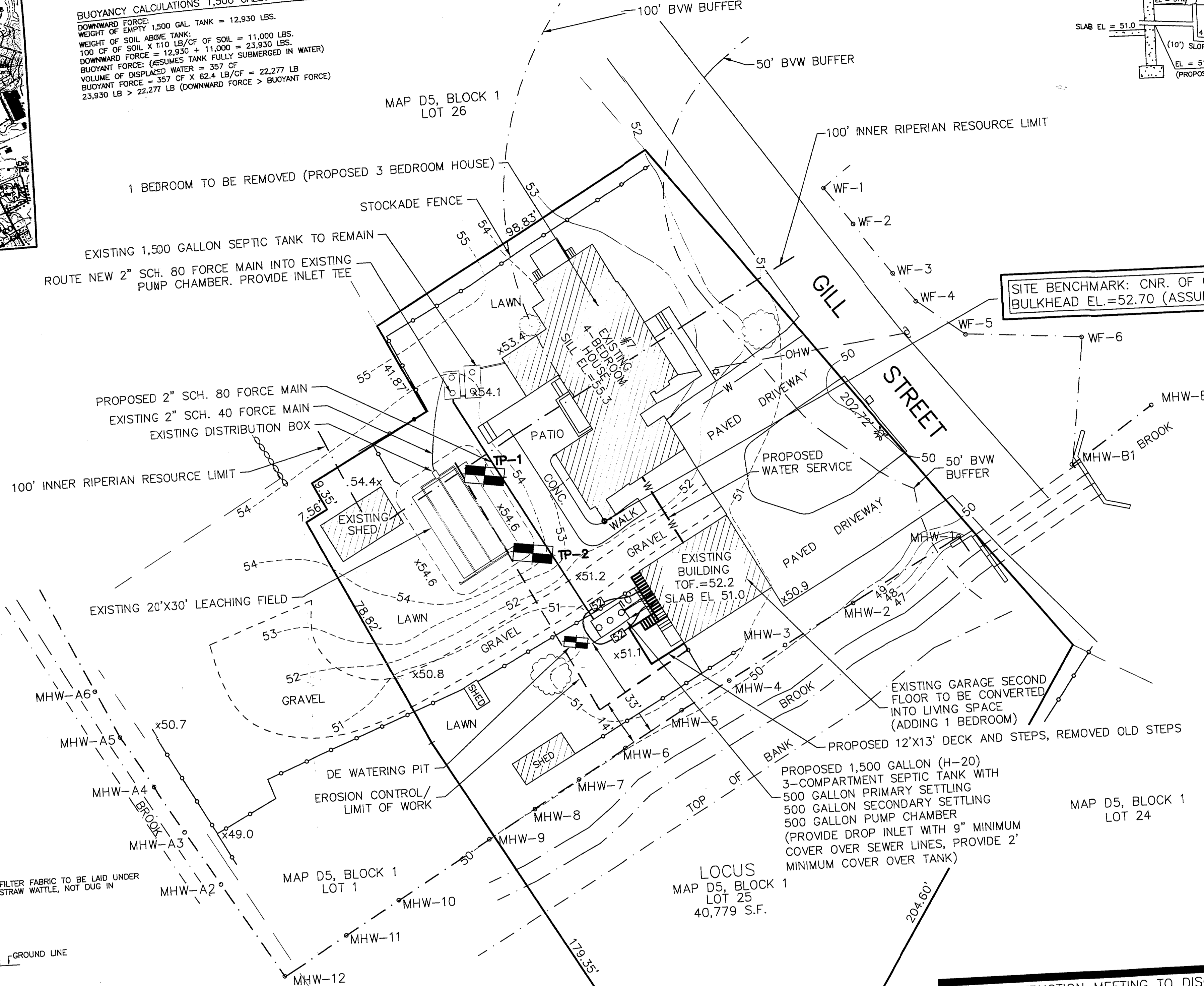
1. THE CONTRACTOR SHALL NOTIFY THE LOCAL BUILDING DEPARTMENT AND COLLINS ENGINEERING GROUP AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS.
2. SITE BENCHMARK IS THE TOP CORNER OF THE CONCRETE BULKHEAD, AS INDICATED THIS PLAN, EL = 52.70 (ASSUMED DATUM).
3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED (LOAM AND SEED).
4. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY APPLICABLE PERMITS.
5. CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING DIG SAFE (888-DIGSAFE) AND ANY OTHER APPLICABLE UTILITY COMPANIES PRIOR TO STARTING WORK.
6. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY.
7. CONTRACTOR RESPONSIBLE FOR IMPLEMENTING ALL O.S.H.A. PROCEDURES TO INCLUDE BUT NOT LIMITED TO CONFINED SPACE ENTRY PROCEDURES.
8. EXISTING SEPTIC SYSTEM LOCATION IS APPROXIMATE AND SCALED FROM INFORMATION PROVIDED BY BOARD OF HEALTH. VERIFY ADEQUATE SETBACKS PRIOR TO CONSTRUCTION.
9. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SEWAGE DISPOSAL FIELD DURING THE COURSE OF CONSTRUCTION OF THE SYSTEM.
10. PROPERTY LINES SHOWN ARE APPROXIMATE ONLY AND ARE NOT THE RESULT OF A PROPERTY LINE SURVEY.
11. CONTRACTOR WILL BE RESPONSIBLE FOR COMBINING LAUNDRY FLOW WITH SYSTEM. (IF APPLICABLE)
12. AN AUDIBLE AND VISUAL ALARM SHALL BE PROVIDED. PUMP TO BE ON SEPARATE CIRCUIT FROM ALARM.
13. PUMP AND APPURTENANCES TO BE INSTALLED AND LOCATED ACCORDING TO MANUFACTURERS INSTRUCTIONS AND LOCAL BUILDING AND WIRING CODES.
14. PUMP SHALL CONSIST OF HYDROMATIC MODEL SKV40 SUBMERSIBLE PUMP (OR APPROVED EQUAL). PUMP SHALL BE RATED AT 4/10 HP AND SHALL HAVE A 2" DISCHARGE. THE PUMP SHALL OPERATE FROM A 115 VOLT, 12.6 AMP, SINGLE PHASE, 60 HERTZ POWER SUPPLY.
15. CONTRACTOR TO ENSURE LIQUID IN DISCHARGE PIPE FLOWS BACK TO PUMP CHAMBER AFTER PUMP CYCLE.
16. PUMP CONTROL PANEL SHALL CONSIST OF MYERS CE SIMPLEX ELECTRICAL CONTROL PANEL (OR APPROVED EQUAL). PUMP CONTROL PANEL TO BE LOCATED INSIDE EXISTING DWELLING.
17. CONTRACTOR RESPONSIBLE FOR CONFIRMING LOCATION OF EXISTING LEACHING FACILITY AND CONFIRMATION OF EXISTING SYSTEM ELEVATION PRIOR TO CONSTRUCTION.
18. USE APPROVED PLAN STAMPED BY BOARD OF HEALTH FOR CONSTRUCTION.
19. CONTRACTOR TO CONFIRM DISTRIBUTION BOX INVERT AND TO PROVIDE -1% MINIMUM FORCE MAIN SLOPE. LOWER TANK IF NEEDED TO PROVIDE REQUIRED SLOPE.
20. ALL PROPOSED SYSTEM COMPONENTS TO WITHSTAND H-10 LOADING CRITERIA, EXCEPT WHERE NOTED.

SOIL DATA:

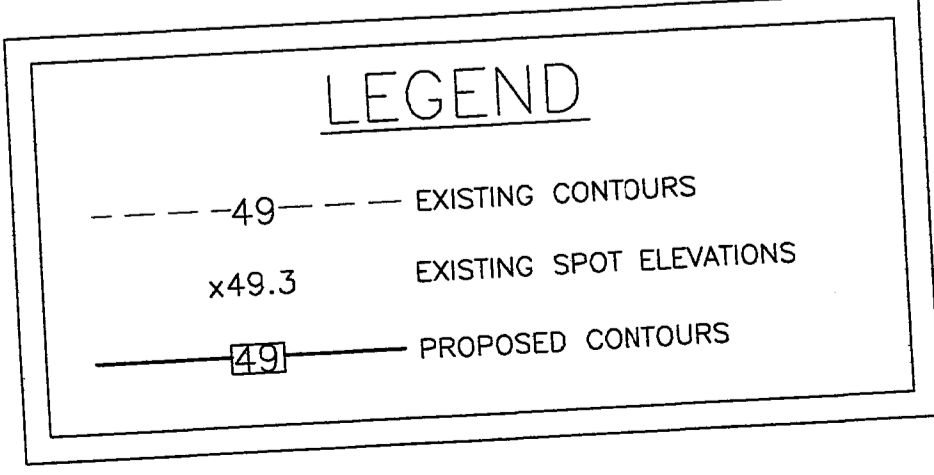
DATE: APRIL 17, 2007
 PERFORMED BY: GEORGE R. COLLINS, P.E.
 WITNESSED BY: BARRY W. PERKINS, AVON B.O.H.

SOIL HORIZ.	SOIL COLOR	DEPTH	ELEV.	SOIL HORIZ. COLOR	DEPTH	ELEV.
FILL		0	51.89	FILL/A	0	50.18
		10"		Bw 10YR 5/6	14"	
		40"	48.56		30"	47.68
		108"	42.89	C 2.5Y 6/2	42"	
					114"	40.68

EST. SEASONAL HIGH GROUNDWATER ELEV. 48.56
 DESIGN PERC RATE = 1" IN 4 MIN.

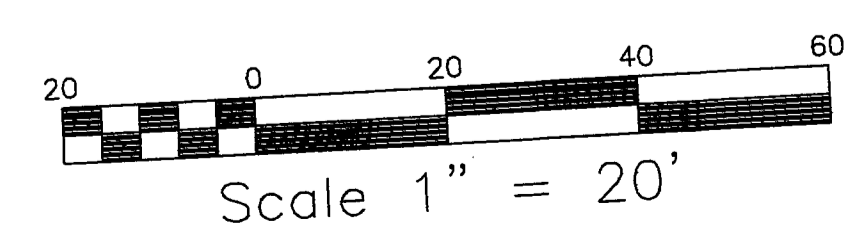
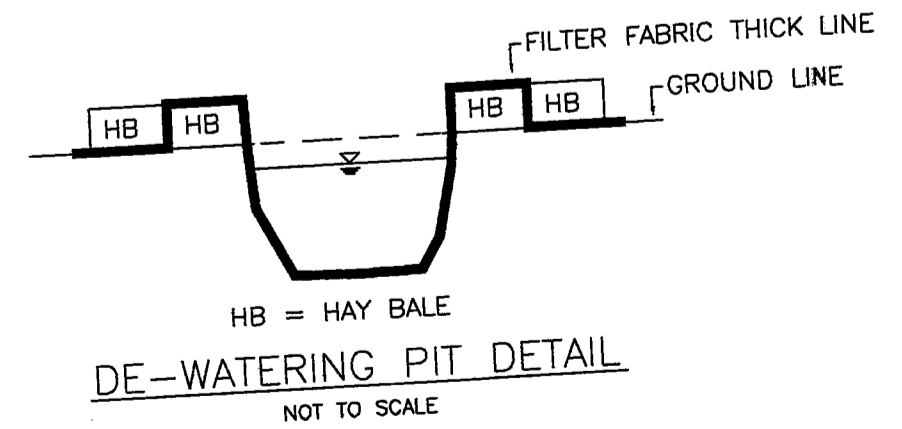
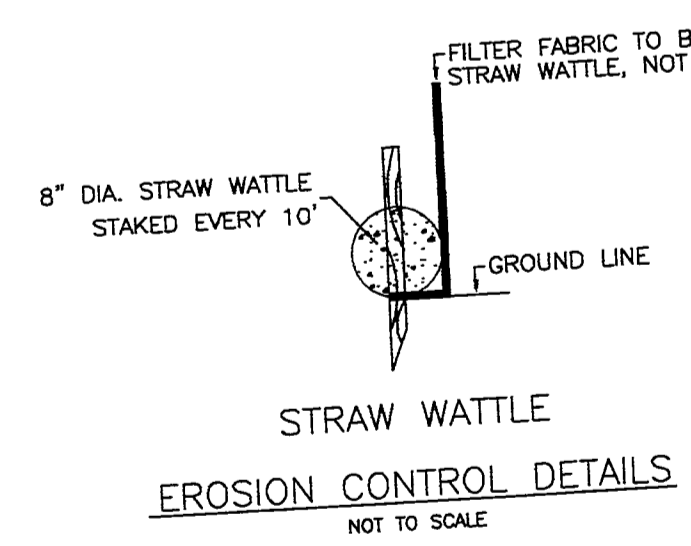


PRE-CONSTRUCTION MEETING TO DISCUSS CONSERVATION WITH THE ENGINEER IS REQUIRED. PRE-DURING AND POST CONSTRUCTION PHOTOS TO BE SUBMITTED TO THE CONSERVATION COMMISSION BY THE CONTRACTOR.



WETLAND AND EROSION CONTROL NOTES

1. WETLAND DELINEATION PERFORMED BY BROOKE MONROE, BOTANIST.
2. EROSION CONTROL (WORK LIMIT) LINE TO BE INSTALLED PRIOR TO ANY ACTIVITY AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
3. CONTRACTOR RESPONSIBLE FOR IMPLEMENTING ALL CONSERVATION COMMISSION AND BOARD OF HEALTH DIRECTIVES.
4. THE SITE IS NOT LOCATED IN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN.
5. CONTRACTOR TO SWEEP STREET AT THE END OF EACH WORK DAY.
6. THE NAME AND CONTACT NUMBERS OF THE GENERAL CONTRACTOR MUST BE PROVIDED TO THE ENGINEER AND CONSERVATION COMMISSION PRIOR TO STARTING WORK.
7. CONTRACTOR TO MONITOR, REPAIR AND MODIFY EROSION CONTROL TO ASSURE THAT THERE IS NO WETLAND RESOURCE AREA OR ABUTTER ENCROACHMENT.
8. ESTIMATED EXPORTED SOIL WITHIN BUFFER ZONE = 10± CUBIC YARDS (NO IMPORTED MATERIAL REQUIRED)
9. ESTIMATED IMPORTED WITHIN BUFFER ZONE = 0 CUBIC YARDS
10. ESTIMATED TEMPORARY DISTURBANCE WITHIN 100' BVW / INNER RIPERIAN BUFFER = 1,000 S.F.



PLAN TO ACCOMPANY A ZONING BOARD OF APPEALS APPLICATION
 PLAN TO ACCOMPANY A CONSERVATION APPLICATION

REV.	DATE	DESCRIPTION	BY	APP.
1	10-26-22	DECK AND STEPS ADDED, BUOYANCY CLACS.	GRC	GRC

DRAWING TITLE	PROPOSED SEPTIC TANK / PUMP CHAMBER
PROJECT	7 GILL STREET AVON, MA
CLIENT	LYNN MCKENNEY 7 GILL STREET, AVON, MA
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:GRC@AOL.COM	
SCALE:	1" = 20'
DATE:	10-20-22
DRAWN BY:	PJL
DESIGNED BY:	PJL
CHECKED BY:	GRC
APPROVED BY:	GRC
DRAWING NO.:	22-200-659
PROJECT NO.:	22-200-659