

GENERAL NOTES:

- 1. TOPOGRAPHIC INFORMATION IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. ELEVATIONS REFER TO ASSUMED DATUM (SEE BENCH MARK LOCATED ON PLOT PLAN).
- PROPERTY LINE INFORMATION TAKEN FROM AN "APPROVAL NOT REQUIRED" PLAN PRÉPARED BY THIS OFFICE AS DRAWING NUMBER 5478-ANR. SAID PLAN TO BE FILED WITH THE TOWNSEND PLANNING BOARD AND RECORDED AT THE REGISTRY OF DEEDS. PERCOLATION TESTS PERFORMED IN ACCORDANCE WITH 310 CMR (TITLE 5) REGULATIONS 15.104 AND 15.105.
- ANY DEVIATIONS FROM THE DESIGN PLAN MUST BE APPROVED IN WRITING BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. NO PERMANENT STRUCTURES MAY BE CONSTRUCTED OVER THE RESERVE LEACHING AREA.
- THE BOARD OF HEALTH REQUIRES INSPECTION OF ALL CONSTRUCTION BY THE DESIGN ENGINEER OR BY AN AGENT OF THE BOARD OF HEALTH, AND THAT SUCH A PERSON CERTIFIES IN WRITING THAT ALL WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE TERMS OF THE PERMIT AND THE APPROVED PLANS.
- 7. FOR PROPER PERFORMANCE, A SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE EVERY YEAR AND WHEN THE TOTAL DEPTH OF SCUM AND SOLIDS EXCEEDS ONE THIRD OF LIQUID DEPTH OF THE TANK, THE TANK SHOULD BE PUMPED.
- THIS DESIGN DOES NOT ACCOMMODATE A GARBAGE DISPOSAL.
 CONSTRUCTION WITHIN 100 FEET OF A WETLAND RESOURCE AREA AS DEFINED IN THE MASSACHUSETTS WETLAND PROTECTION ACT AND REGULATIONS (310 CMR 10.00) SHALL NOT BE PERFORMED UNTIL AN ORDER OF CONDITIONS OR NEGATIVE DETERMINATION OF APPLICABILITY
- HAS BEEN OBTAINED FROM THE LOCAL CONSERVATION COMMISSION. 10. EXISTING UTILITES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.

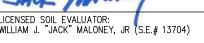
CONSTRUCTION NOTES:

- 1. FINISH GRADING SHALL BE DONE IN ACCORDANCE WITH THE PLOT PLAN. ALL DISTURBED AREAS SHALL BE COVERED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH A NATIVE GRASS MIXTURE. 2. BACKFILL OVER THE SOIL ABSORPTION SYSTEM, SEPTIC TANK AND PUMP CHAMBER SHALL BE A MINIMUM OF 9 INCHES EXCLUDING TOPSOIL, PLACED IN LIFTS AND SUFFICIENTLY COMPACTED TOP PREVENT DEPRESSIONS DUE TO SETTLING. BACKFILL OVER THE SOIL ABSORPTION SYSTEM SHALL BE FREE OF STONES AND BOULDERS GREATER THAN 6 INCHES IN SIZE.
- THE BUILDING SEWER SHALL BE LAID ON A COMPACTED FIRM BASE ALL PIPING SHALL BE MINIMUM OF SCHEDULE 40 UNLESS OTHERWISE NOTED. 5. ALL PIPE JOINTS AND CONNECTIONS TO SYSTEM COMPONENTS SHALL BE MECHANICALLY SOUND, WATER TIGHT AND PROTECTED AGAINST
- DAMAGE BY ROOTS. ALL BUILDING SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE PLUMBING CODE 248 CMR 2.00.
 FINAL COVER OVER THE SYSTEM SHALL BE GRADED TO REDUCE INFILTRATION OF SURFACE WATER AND MINIMIZE EROSION. FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 2%.
- EFFLUENT DISTRIBUTION LINES SHALL HAVE A SLOPE OF 0.5%. OUTLET DISTRIBUTION LINES FROM THE D-BOX SHALL BE LEVEL FOR A MINIMUM OF TWO FEET OF THEIR LENGTH. 10. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOILS THAT MEET THE MINIMUM
- REQUIREMENTS STATED IN 310 CMR 15.255(3) 11. WHERE FILL IS REQUIRED TO REPLACE UNSUITABLE OR IMPERMEABLE SOILS, THE EXCAVATION OF THE UNSUITABLE MATERIAL SHALL EXTEND
- A MINIMUM OF 5 FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF 3 INCHES INTO THE NATURALLY OCCURRING PERVIOUS MATERIAL. 12. THE BOTTOM SURFACE OF THE EXCAVATION SHALL BE SCARIFIED AND RELATIVELY DRY. FILL SHALL NOT BE PLACED DURING RAIN OR
- SNOW STORMS. IF THE WATER TABLE ELEVATION IS ABOVE THE ELEVATION OF THE BOTTOM OF THE EXCAVATION, THE EXCAVATION SHALL BE DEWATERED. 13. SUBSURFACE COMPONENTS OF A SYSTEM SHALL NOT BE BACKFILLED OR OTHERWISE CONCEALED FROM VIEW UNTIL A FINAL INSPECTION HAS BEEN CONDUCTED BY THE APPROVING AUTHORITY AND PERMISSION HAS BEEN GRANTED BY THE APPROVING AUTHORITY TO BACKFILL
- THE SYSTEM. THE DESIGNER SHALL INSPECT THE CONSTRUCTION AFTER THE INITIAL EXCAVATION, PRIOR TO BACKFILLING, AND DURING BACKFILLING. IN ADDITION, THE FINAL INSPECTION OF THE SYSTEM SHALL BE CONDUCTED BY THE APPROVING AUTHORITY, THE SYSTEM INSTALLER AND THE DESIGNER PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE PURSUANT TO 310 CMR 15.021(3). ANY COMPONENT OF THE SYSTEM WHICH HAS BEEN COVERED WITHOUT SUCH PERMISSION SHALL BE UNCOVERED UPON THE REQUEST OF THE APPROVING AUTHORITY OR THE DESIGNER.
- 14. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIFD.
- 15. ALL SOIL ABSORPTION SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) INSPECTION PORT CONSISTING OF A PERFORATED FOUR (4) 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 TO WITHIN THREE (3) INCHES OF FINISH GRADE.

NAME OF APPROVING AUTHORITY: TOWNSEND BOARD OF HEALTH RICK METCALF, N.A.B.O.H. AGENT SOIL TEST DATA DUCHARME AND DILLIS CIVIL DESIGN GROUP WILLIAM J. "JACK" MALONEY, JR. (SE–13704)											
IN-SEASON GROUND WATER TESTING - (IF REQ'D)						PERCOLATION TEST DATA					
TEST PIT NO.	DATE E	SURFACE LEVATION	DEPTH TO OBSERVED GROUNDWATER	G.WATER ELEVATIO		Г	DAT	Ē	BOTTOM OF TES DEPTH FROM SURFACE	ST HOLE SURFACE ELEVATION	RATE: MINUTES PER INCH
					420	D-A	4/22,	/2020	50"	335.5±	2 M/I
					420)—В	4/22,	/2020	60"	336.0±	2 M/I
					-						
GEOLOGICAL LAND FORM: SOIL LIMITATI GENERAL NO	E IONS: N TES: 2	LACIOFLU SKERS ONE 62D DEPTH	VIAL DEPOS	TEX.	COLOR	мотт		G.W.	OTHER		
	ST: 4/22/2020	0–168"	C	S & G	10YR 5/4	NONE		NONE	SINGLE GRAIN, FRIAB	LE-LOOSE	
(SURFACE ELEV.	,										
ESTIMATED SEAS	ONAL HIGH GROUND	WATER		AT 168	B" (ELEVATION	= 321.5	i±)	-			
DEEP TEST F	PIT: 420-2	DEPTH	HOR.	TEX.	COLOR	MOTT		G.W.	OTHER		
DATE OF TEST: 4/22/2020 REFUSAL AT: NONE OBSERVED		0–168"	C	S & G	10YR 5/4	NONE		NONE	SINGLE GRAIN, FRIABLE-LOOSE		
(SURFACE ELEV.	= 336.0±)										
ESTIMATED SEAS	ONAL HIGH GROUND	WATER		AT 168	B" (ELEVATION	= 322.0)±)				

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, SINDICATED ON THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE IN ACCORDANCE WITH 310 CMR 15.100 THROUGH 15.107

DRAWING ENTITY



				DENOTES PROPOSED CONCRETE DISTRIBUTION BOX DENOTES PROPOSED SEWER CLEANOUT		DB-1 0.
STA STA	DATE: 9/14/2020 DESIGN BY: CLM	L	SEWA	JOB NO. 5478 DRAWING NO.		
		NO.	DATE	DESCRIPTION	BY	5478-SDS3
Ð	DRAWN BY: CLM CHECKED BY:	1	10/22/2020	PER N.A.B.O.H. REVIEW COMMENTS	CLM	SHEET NO.
	WJM					OF 1

ARREN

ROAD

LEGEND

DENOTES EXISTING CONTOUR (INDEX)

DENOTES PROPOSED CONTOUR (INDEX)

DENOTES PROPOSED SEWER LINE

DENOTES PROPOSED WATER LINE

DENOTES EXISTING CONTOUR (INTERMEDIATE)

DENOTES PROPOSED CONTOUR (INTERMEDIATE)

DENOTES PROPOSED UNDERGROUND UTILITIES

DENOTES PROPOSED CONCRETE SEPTIC TANK

DENOTES PROPOSED CONCRETE PUMP CHAMBER

DENOTES PROPOSED BUILDING ENVELOPE

DENOTES LIMIT OF EXCAVATION OF UNSUITABLE SOILS

DESCRIPTION