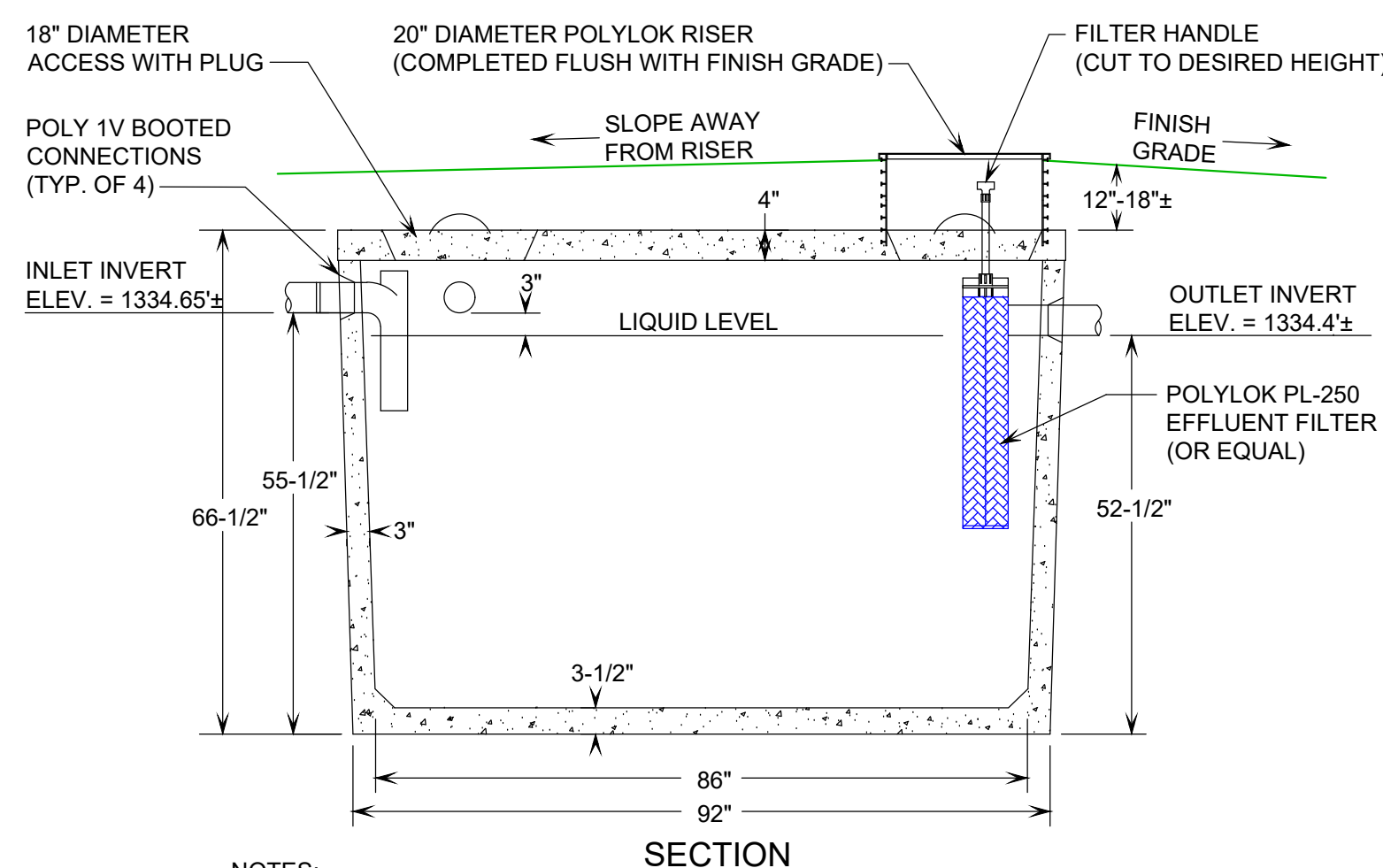


D-BOX, LATERALS AND TRENCH INVERT SCHEDULE

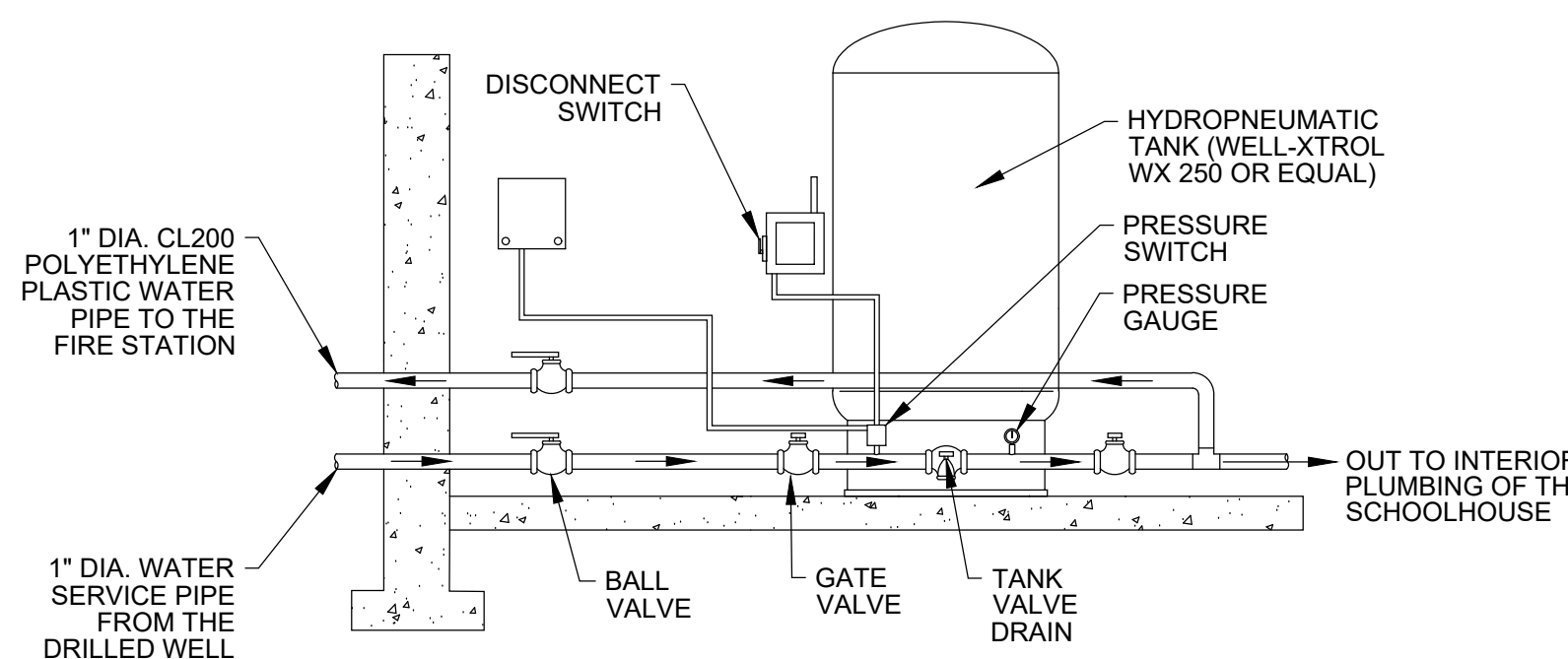
	D-Box Invert Elevations	Upper Trench (1) Lateral Invert Elevation	Middle Trench (2) Lateral Invert Elevation	Middle Trench (3) Lateral Invert Elevation	Lower Trench (4) Lateral Invert Elevation
Inlet	1334.2'±	1334.0'±	1333.4'±	1332.75'±	1332.0'±
Outlet	1334.0'±	N/A	N/A	N/A	N/A



- NOTES:**
- SEPTIC TANK SHALL BE SET LEVEL ON A MINIMUM OF SIX INCHES OF COMPACTED GRANULAR BASE.
 - AN INLET TEE Baffle IS REQUIRED.
 - IF WATER-PROOF BOOTED CONNECTIONS ARE NOT USED, ALL PIPE PENETRATIONS SHALL BE SEALED WITH A "WATER PLUS" NON-SHRINK HYDRAULIC CEMENT.
 - EFFLUENT FILTER ACCESS SHALL BE COMPLETED FLUSH WITH FINISH GRADE.

1,000 GALLON TOP-SEAM CONCRETE SEPTIC TANK

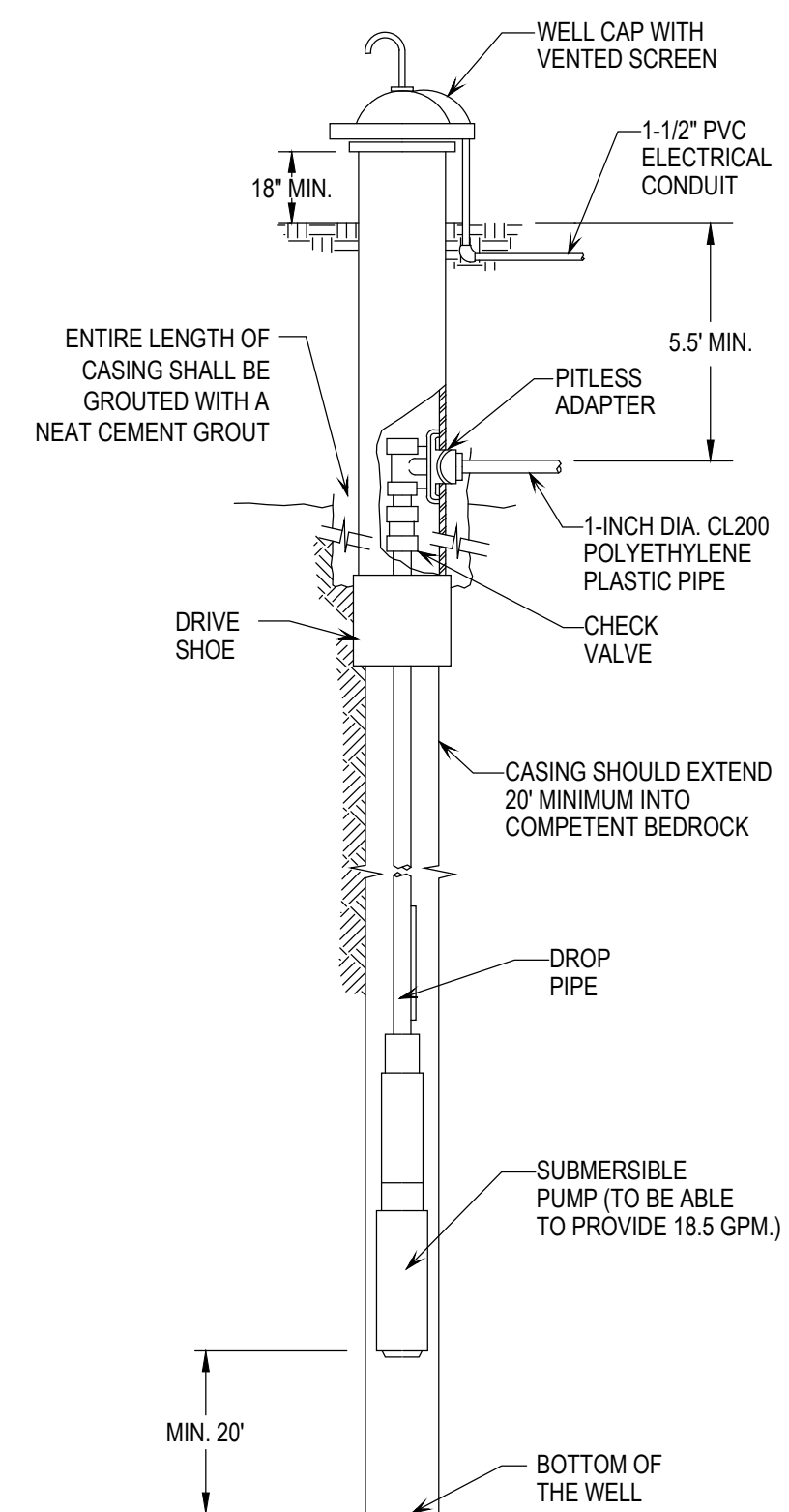
NOT TO SCALE



- NOTES:**
- HYDRONEUMATIC TANK (TO BE DETERMINED).
 - PRESSURE SWITCH SETTING 40-60 PSI.
- NOTE:** ALL INTERIOR PLUMBING AND WATER DISTRIBUTION DESIGN TO BE PERFORMED ACCORDING TO APPLICABLE PLUMBING CODE BY A LICENSED PROFESSIONAL.

TYPICAL COMPONENTS FOR A SHARED DRILLED WELL SUBMERSIBLE WELL PUMP WATER SYSTEM

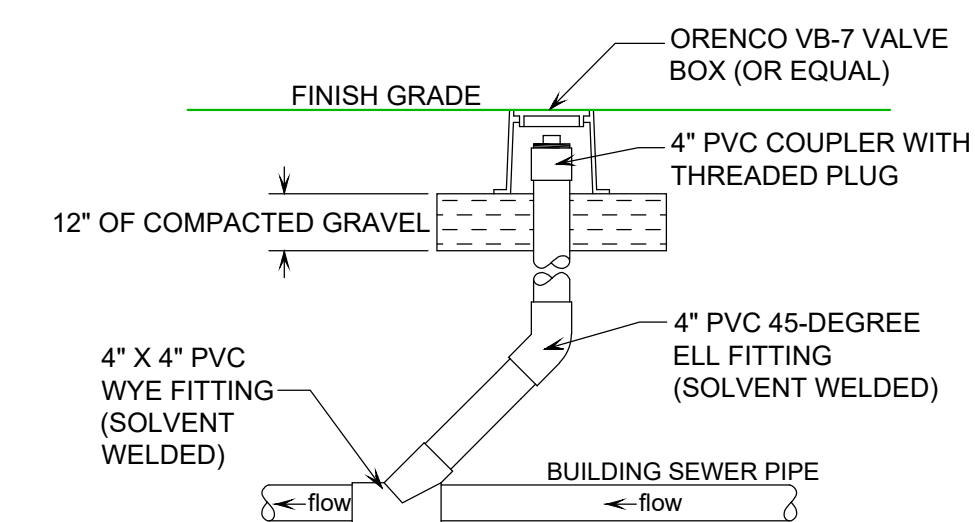
ELEVATION VIEW - NOT TO SCALE



- NOTES:**
- THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH §1-1206 OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, EFFECTIVE APRIL 12, 2019.
 - THE DRILLED WELL LOCATION SHALL ADHERE TO THE ISOLATION DISTANCES SHOWN ON THE DRILLED WELL ISOLATION TABLE ON THIS DRAWING.
 - THE WATER SYSTEM COMPONENTS SHALL BE ABLE TO MEET THE PROJECT IPD OF 18.5 GPM.

DRILLED WELL CONSTRUCTION DETAIL

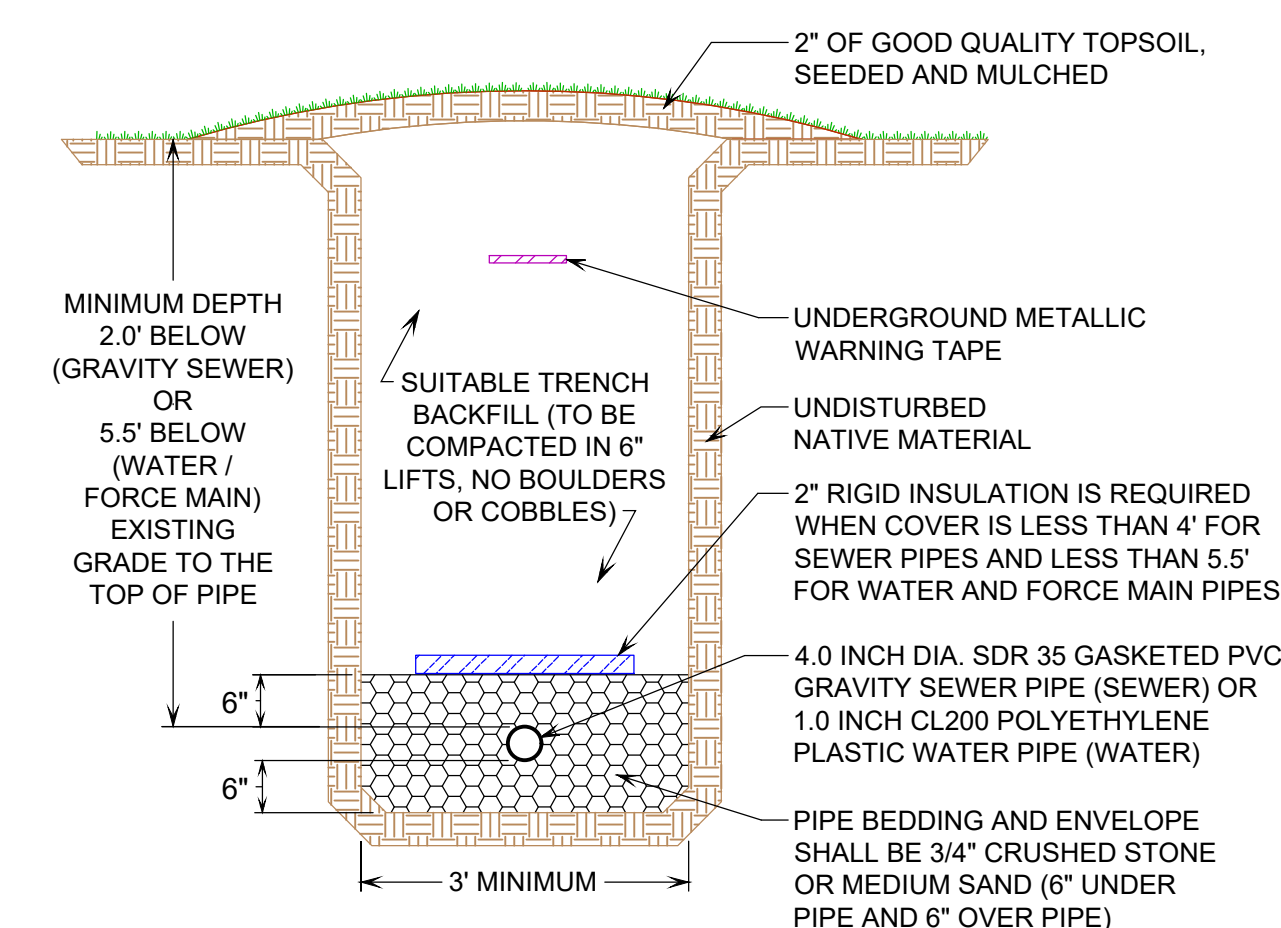
NOT TO SCALE



- NOTES:**
- A CLEANOUT IS REQUIRED AT EACH HORIZONTAL CHANGE IN DIRECTION NOT GREATER THAN 45-DEGREES AND A MINIMUM OF EVERY 100 LINEAR FEET OF BUILDING SEWER.
 - CLEANOUTS SHALL BE COMPLETED FLUSH WITH FINISH GRADE.
 - THE CONTRACTOR IS RESPONSIBLE FOR COLLECTING TIES TO THE CLEANOUT.

BUILDING SEWER CLEANOUT DETAIL

NOT TO SCALE



- NOTE:**
- THE SEWER PIPE TO BE SLEEVED WHERE WITHIN 50 FEET OF THE WELL.

GRASSED AREA PIPE IN TRENCH DETAIL

NOT TO SCALE

DRILLED WELL DISINFECTION:

DISINFECTION: (PURSUANT TO §1-1210 OF THE CURRENT EPR)

(A) THE DRILLED WELL SHALL BE DISINFECTED PURSUANT TO THE REQUIREMENTS OF SUBSECTION (B), (C), AND (D) PRIOR TO PLACING THE WELL INTO SERVICE AND AFTER ANY SERVICING OR REPAIR OF THE WELL, SUCH AS INSTALLATION OF NEW PIPES, WIRES, CASING, OR PUMPS.

(B) DISINFECTION OF THE DRILLED WELL SHALL BE COMPLETED PURSUANT TO THE RECOMMENDATIONS BY THE VERMONT DEPARTMENT OF HEALTH FOR DISINFECTING A WATER SYSTEM, OR THE FOLLOWING METHOD:

- FLUSH THE WELL UNTIL THE WATER RUNS CLEAR;
- PROVIDE AN ADDITIONAL DOSAGE OF AT LEAST 100 MG/L OF CHLORINE IN THE WELL;
- CIRCULATE THE WATER IN THE WELL; AND
- ALLOW THE WATER TO REST IN THE WELL FOR A MINIMUM OF 12 TO 24 HOURS BEFORE DISPOSING OF THE CHLORINATED WATER.

(C) DISINFECTION OF THE WATER SERVICE LINES AND WATER SERVICE PIPES SHALL BE COMPLETED PURSUANT TO THE REQUIREMENTS OF THE VERMONT PLUMBING RULES OR THE FOLLOWING METHOD:

- FILL THE WATER SERVICE LINE OR WATER SERVICE PIPE WITH A WATER/CHLORINE SOLUTION OF 100 MG/L; AND
- ALLOW THE CHLORINATED WATER TO REST IN THE WATER SERVICE LINE OR WATER SERVICE PIPE FOR A MINIMUM OF 24 HOURS BEFORE DISPOSING OF THE CHLORINATED WATER.

(D) DISINFECTION OF WATER STORAGE TANKS SHALL BE COMPLETED PURSUANT TO AWWA STANDARD C652.

(E) CHLORINATED WATER USED TO DISINFECT OR RESULTING FROM DISINFECTION OF THE DRILLED WELL SHALL NOT BE DISCHARGED TO A WASTEWATER SYSTEM OR TO SURFACE WATER. PROPER DISPOSAL OF THE CHLORINATED WATER IS TO THE GROUND SURFACE THROUGH SHEET FLOW THAT INFILTRATES INTO THE SOIL OR DISPOSAL TO A WASTEWATER TREATMENT FACILITY, IF AUTHORIZED BY THE WASTEWATER TREATMENT FACILITY.

WATER SYSTEM LEAKAGE & PRESSURE TESTING:

LEAKAGE & PRESSURE TESTING: (PURSUANT TO §1-1209 OF THE CURRENT EPR)

(A) WATER SERVICE LINES AND WATER SERVICE PIPES SHALL BE PRESSURE TESTED AND LEAKAGE TESTED ACCORDING TO ONE OF THE FOLLOWING PROCEDURES PRIOR TO PLACING THE POTABLE WATER SUPPLY INTO SERVICE:

- VERMONT PLUMBING RULES;
- THE AWWA; OR
- BY PRESSURIZING THE LINES AND PIPES WITH WATER AT THE WORKING PRESSURE OF THE SYSTEM OR GREATER AND HOLD WITHOUT A DROP IN PRESSURE FOR A MINIMUM OF 16 MINUTES.

(B) ATMOSPHERIC STORAGE STRUCTURES SHALL BE LEAKAGE TESTED ACCORDING TO THE FOLLOWING PROCEDURE TO ENSURE WATER LOSS IS EQUAL TO OR LESS THAN 0.05 OF 1 PERCENT OF THE TANK CAPACITY PRIOR TO PLACING THE STRUCTURE INTO SERVICE:

- FILLING THE TANK WITH POTABLE WATER AND LET STAND FOR 24 HOURS; AND
- MEASURING THE LOSS OF WATER OVER 24 HOURS.

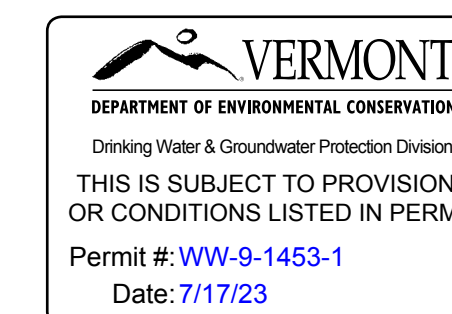
(C) IF THE WATER SERVICE LINE, WATER SERVICE PIPE, OR ATMOSPHERIC STORAGE STRUCTURE FAILS THE PRESSURE OR LEAKAGE TEST, THE CAUSE OF THE FAILURE SHALL BE REPAIRED, AND THE LINE, PIPE OR STRUCTURE RETESTED.

DRILLED WELL REQUIRED MINIMUM ISOLATION DISTANCES

1. THESE DISTANCES APPLY TO DRILLED WELLS SERVING A SINGLE-FAMILY RESIDENCE, WITH A MAXIMUM DAILY DEMAND OF LESS THAN 1.9 GPM.

2. THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH §1-1206 OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, EFFECTIVE APRIL 12, 2019.

POTENTIAL SOURCE OF CONTAMINATION	SEPARATION DISTANCE
SEWAGE DISPOSAL FIELD WITH FLOWS <200 GPD	200 FEET IF WELL IS DOWNSLOPE 100 FEET IF WELL IS UPSLOPE
SUBSURFACE WASTEWATER PIPING	50 FEET
EDGE OF RESIDENTIAL DRIVE SERVING 3 RESIDENCES OR LESS	5 FEET
EDGE OF DRIVEWAY, ROADWAY OR PARKING LOT SERVING 3 OR MORE RESIDENCES	25 FEET
PROPERTY LINE	10 FEET
BUILDINGS	5 FEET
LIMIT OF HERBICIDE APPLICATION ON UTILITY RIGHT-OF-WAY	100 FEET
SURFACE WATER	10 FEET
CONCENTRATED LIVESTOCK HOLDING AREAS AND MANURE STORAGE:	200 FEET
ABOVE GROUND	50 FEET
IN-GROUND CONCRETE/GEOSYNTHETIC LINED	100 FEET
EARTHEN LINED	200 FEET
HAZARDOUS OR SOLID WASTE DISPOSAL SITE	CONTACT DESIGNER
NON-SEWAGE WASTEWATER DISPOSAL FIELDS	CONTACT DESIGNER



SIGNATURE:

 JASON S. BARNARD
 LICENSED DESIGNER #126179

DATE	DESCRIPTION	BY
REVISIONS		
 Land Surveying Water & Wastewater Environmental Consulting 167 Main Street, P.O. Box 820, Ennsburg Falls, VT 05450 Telephone: (802) 933-5168 10523 VT Route 116, P.O. Box 133, Hinesburg, VT 05461 Telephone: (802) 482-2597		
	PROJECT NO. 23267 (18297)	
	DATE: 05-24-2023	
	SCALE: AS NOTED	
	SURVEY: RG / TW	
	DRAWN: CS	
	CHECKED: JB	
	DRAWING NO. D-1	
	SHEET 2 OF 2	