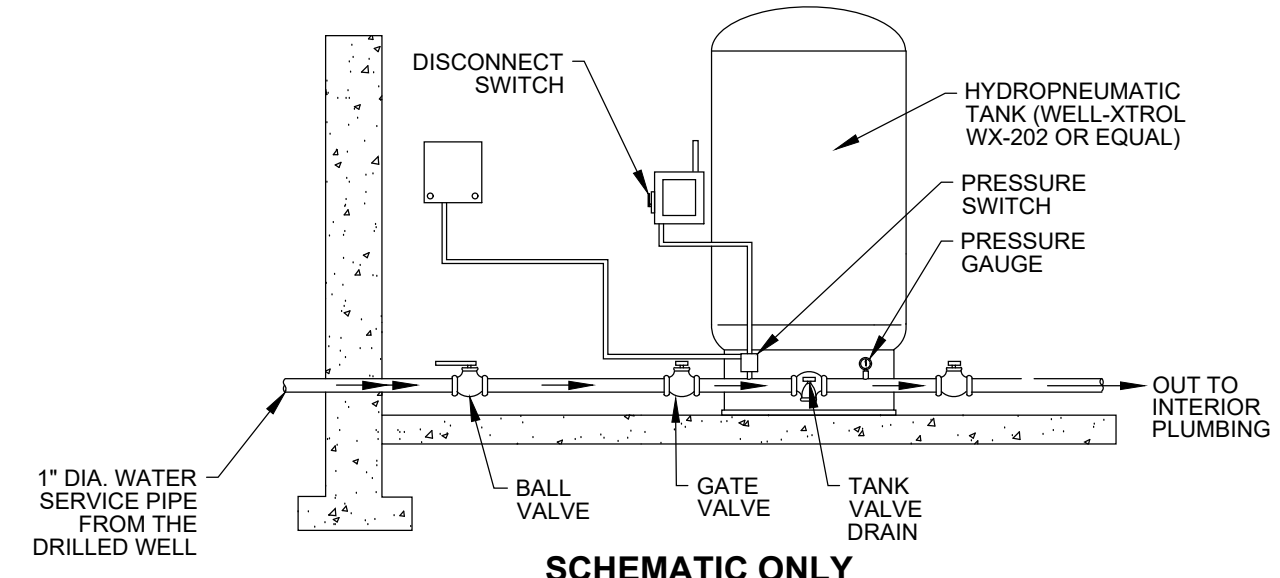


- NOTES:
- THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH §1-1206 OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, EFFECTIVE APRIL 12, 2019.
 - THE DRILLED WELL LOCATION SHALL ADHERE TO THE ISOLATION DISTANCES SHOWN ON THE DRILLED WELL ISOLATION TABLE BELOW.

DRILLED WELL CONSTRUCTION DETAIL
NOT TO SCALE



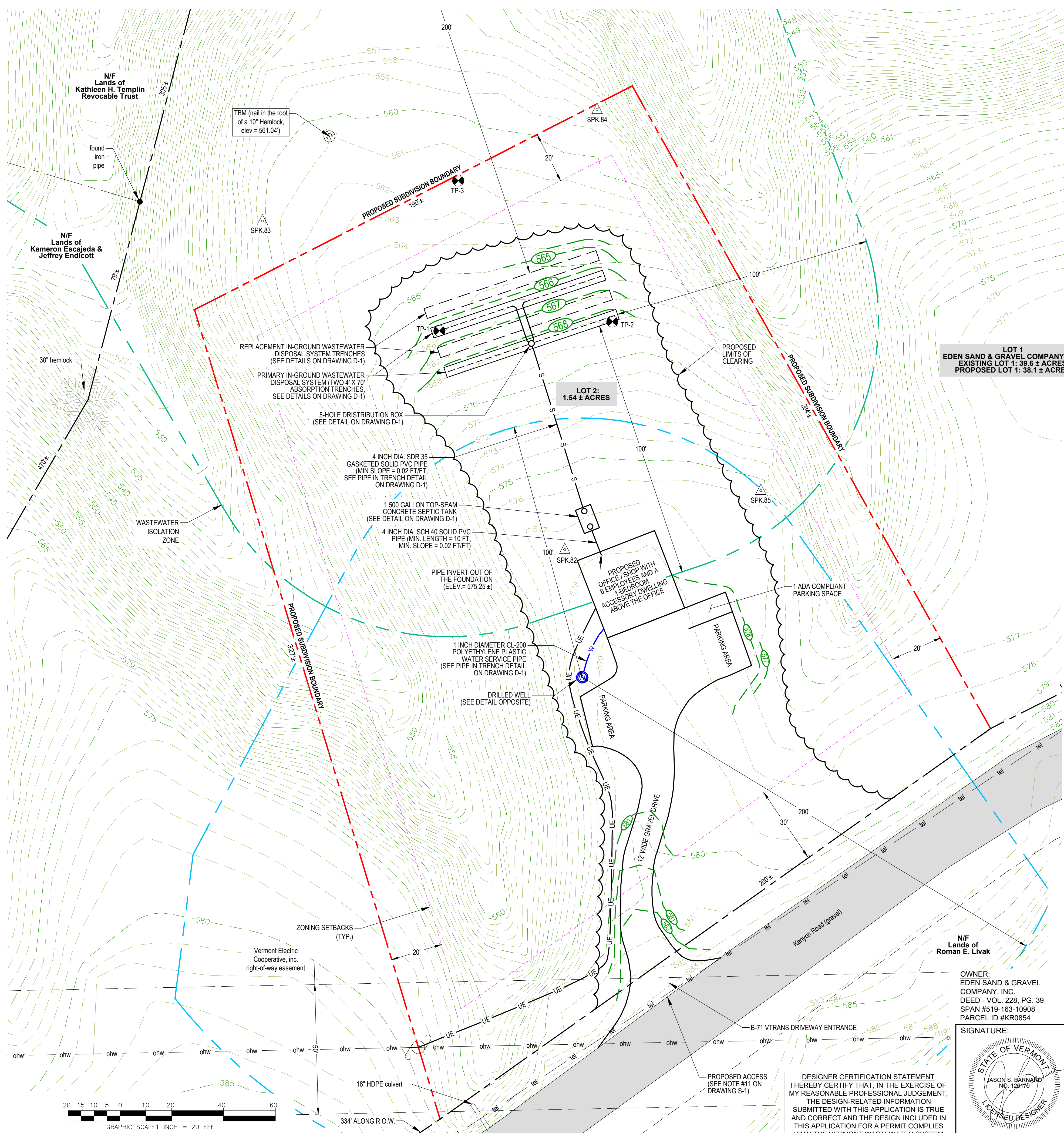
- NOTES:
- HYDRO-PNEUMATIC TANK (TO BE DETERMINED)
 - PRESSURE SWITCH SETTING 40-60 PSI.
- NOTE: ALL INTERIOR PLUMBING AND WATER DISTRIBUTION DESIGN TO BE PERFORMED ACCORDING TO APPLICABLE PLUMBING CODE BY A LICENSED PROFESSIONAL.

TYPICAL COMPONENTS FOR A DRILLED WELL SUBMERSIBLE WELL PUMP WATER SYSTEM
ELEVATION VIEW - NOT TO SCALE

DRILLED WELL REQUIRED MINIMUM ISOLATION DISTANCES

- THESE DISTANCES APPLY TO DRILLED WELLS SERVING A SINGLE-FAMILY RESIDENCE, WITH A MAXIMUM DAILY DEMAND OF LESS THAN 1.9 GPM.
- 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 <2000 GPD	200 FEET IF WELL IS DOWNSLOPE 100 FEET IF WELL IS UPSLOPE
SUBSURFACE WASTEWATER PIPING	50 FEET
EDGE OF RESIDENTIAL DRIVE SERVING 3 OR MORE RESIDENCES	5 FEET
EDGE OF DRIVEWAY, ROADWAY OR PARKING LOT SERVING 3 OR MORE RESIDENCES	25 FEET
PROPERTY LINE BUILDINGS	10 FEET
LIMIT OF HERBICIDE APPLICATION ON UTILITY RIGHT-OF-WAY	5 FEET
SURFACE WATER	100 FEET
CONCENTRATED LIVESTOCK HOLDING AREAS AND MANURE STORAGE:	
ABOVE GROUND	100 FEET
IN-GROUND CONCRETE/GEOSYNTHETIC LINED	50 FEET
EARTHEN LINED	200 FEET
HAZARDOUS OR SOLID WASTE DISPOSAL SITE	CONTACT DESIGNER
NON-SEWAGE WASTEWATER DISPOSAL FIELDS	CONTACT DESIGNER



LEGEND

---	BOUNDARY LINE/ R.O.W. (EXISTING)
---	BOUNDARY LINE/ R.O.W. (ABUTTING)
---	1-FOOT LIDAR CONTOUR (OBTAINED FROM VCGI DATABASE)
---	1-FOOT GROUND SURVEY CONTOUR
---	FINISH GRADE
---	ZONING SETBACKS
---	TREE LINE
---	PROPOSED LIMITS OF CLEARING
---	STONE WALL (EXISTING)
---	DITCHLINE
---	GRAVITY SEWER (EXISTING)
---	GRAVITY SEWER (PROPOSED)
---	FORCE MAIN
---	1-INCH DIAMETER CL200 POLYETHYLENE PLASTIC WATER LINE (UNLESS OTHERWISE NOTED)
---	WELL ISOLATION
---	WASTEWATER ISOLATION
---	WETLAND BOUNDARY
---	WETLAND BUFFER
---	UNDERGROUND ELECTRICAL CONDUIT
---	UNDERGROUND GAS LINE
---	UNDERGROUND TELEPHONE LINE
---	UTILITY POLE/ OVERHEAD WIRES
---	SURVEY TRAVERSE STATION
---	TEMPORARY BENCHMARK (TYPE AND ELEVATION NOTED)
---	TEST PIT (TP-01)
---	DRILLED WELL (UNLESS OTHERWISE NOTED)
---	LIGHT POST

DRILLED WELL LEAKAGE, PRESSURE TESTING AND DISINFECTION:

- 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 RE-TESTED.
- 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.

09-20-2023	CORRECT UTILITY EASEMENT TO 50' WIDE	SB
08-30-2023	UPDATED ABUTTER INFORMATION	CS
DATE	DESCRIPTION	BY

BARNARD & GERVAIS, LLC Land Surveying Water & Wastewater Environmental Consulting

167 Main Street, P.O. Box 820
Enosburg Falls, VT 05450
Telephone: (802) 933-5168

10523 VT Route 116, P.O. Box 133
Hinesburg, VT 05461
Telephone: (802) 482-2597

PROJECT NO. 23235

TWO-LOT SUBDIVISION WATER / WASTEWATER DISPOSAL SYSTEM DESIGNS

EDEN SAND & GRAVEL COMPANY, INC.

KENYON ROAD, RICHMOND, VERMONT

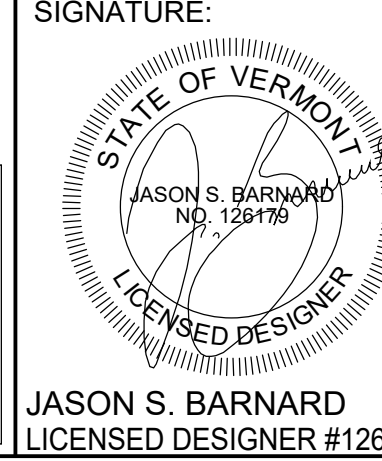
LOT 2 - SITE PLAN & WATER SYSTEM DETAILS

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

PRELIMINARY DRAFT FINAL STATE REVIEW

DATE: 08-10-2023
SCALE: 1" = 20'
SURVEY: AW, TG
DRAWN: AW, CS
CHECKED: JB
DRAWING NO. S-2
SHEET 2 OF 3

OWNER:
EDEN SAND & GRAVEL COMPANY, INC.
DEED - VOL. 228, PG. 39
SPAN #519-163-10908
PARCEL ID #KR0854



DESIGNER CERTIFICATION STATEMENT
I HEREBY CERTIFY THAT, IN THE EXERCISE OF MY REASONABLE PROFESSIONAL JUDGEMENT, THE DESIGN-RELATED INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT AND THE DESIGN INCLUDED IN THIS APPLICATION FOR A PERMIT COMPLIES WITH THE VERMONT WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES.

