

PARCEL INFO:

LANDOWNER: PIGEON FAMILY TRUST

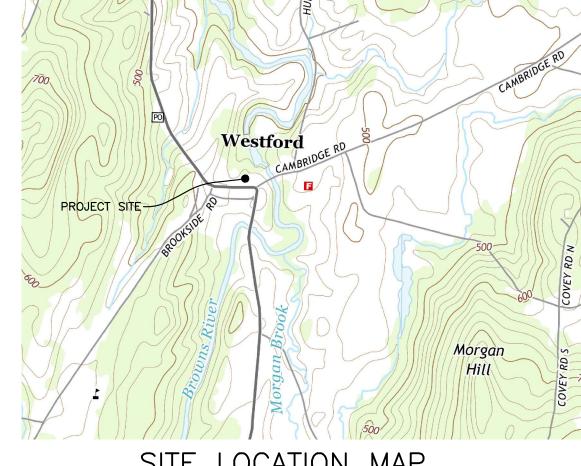
APPLICANT: SE GROUP

SITE: 1705 VT ROUTE 128 WESTFORD, VT 05494

SPAN #: 720-229-10632 PARCEL ID#: 05TW043 TOTAL PARCEL AREA: 3.2 OR 141,200

LEGEND

EXISTING ABUTTER PROPERTY LINE SUBJECT PROPERTY LINE SETBACK CONTOURS EDGE OF PAVEMENT EDGE OF GRAVEL _____ CENTERLINE SEWER ISOLATION SHIELD WELL ISOLATION SHIELD SOIL SURVEY BOUNDARIES TREELINE WETLAND BOUNDARY WETLAND 50FT BUFFER OVERHEAD UTILITIES UTILITY POLE AND GUY WIRE



SITE LOCATION MAP

ZONING INFORMATION:

<u>DESCRIPTION</u>	REQUIRED	PROVIDED
MINIMUM LOT SIZE	0.25 ACRE	3.2 ACRE
RONT YARD SETBACK	5-10 FT	>5 FT
MINIMUM SIDE YARD SETBACK	5 FT	>5 FT
IINIMUM REARYARD SETBACK	10 FT	>10 FT

GENERAL NOTES:

- 1. CONTOURS AND PROPERTY LINES BASED ON SURVEY BY BUTTON PROFESSIONAL LAND SURVEYORS, PC.
- 2. THIS MAP IS NOT A BOUNDARY SURVEY AND SHALL NOT BE USED OR CONSTRUED FOR SUCH PURPOSES
- 3. SETBACKS ARE BASED ON THE TOWN OF WESTFORD ZONING REGULATIONS, LAST ADOPTED FEBRUARY 2011.
- 4. ALL EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE DATE OF THIS PLAN AND SHALL NOT BE CONSIDERED
- 5. ALL PROPOSED UTILITIES ARE SUBJECT TO CHANGE WITH SELECT UTILITIES BEING BASED ON PLAN "CONCEPTUAL DESIGN-SERVICE AREA_10.26.21".
- 6. PAH DELINEATION AREA AND FORMER GASOLINE UST LOCATION DERIVED FROM "BROWNFIELDS CONTAMINATED SOIL DELINEATION INVESTIGATION - PIGEON PROPERTY" DATED JUNE 24, 2022 BY LE ENVIRONMENTAL.

NRCS SOIL SURVEY GROUP TABLE:

MAP UNIT SYMBOL	MAP UNIT NAME	HYDRAULIC SOIL RATING		
MuD	MUNSON AND BELGRADE SILT LOAMS,	C/D		
	12 TO 25 PERCENT SLOPES			
МуВ	MUNSON AND RAYNHAM SILT LOAMS,	C/D		
	2 TO 6 PERCENT SLOPES			
W	WATER	N/A		

SURVEY NOTES:

- 1. THIS BOUNDARY RETRACEMENT SURVEY HAS BEEN FROM FIELD SURVEYS AND RECORD EVIDENCE INCLUDING THE FOLLOWING PLATS RECORDED IN THE TOWN OF WESTFORD LAND RECORDS:
- A. "ROAD LAYOUT PLAN, TOTAL STATION SURVEY FOR TOWN OF WESTFORD, COMMON ROAD (TOWN HIGHWAY 33)," PREPARED BY VALLEY LAND SERVICES, INC., DATED 10/11/17, LAST REVISED 10/26/17, AND RECORDED IN SLIDE # 272.
- B. "PLAT OF SURVEY SHOWING JOEL, WILLIAM, DOUGLAS & MARY MARGARET FAY PROP., VT. ROUTE 128, WESTFORD, VT," PREPARED BY WARREN A. ROBENSTIEN, LS, DATED MARCH 1988, LAST REVISED JUNE 20, 2003, AND RECORDED IN SLIDE #192.
- C. "PLAT OF LAND OF ANTONIO & GABRIELLE POULIOT, ROUTE 128, WESTFORD, VERMONT," PREPARED BY TRUDELL CONSULTING
- ENGINEERS, INC., DATED 6/15/77, AND RECORDED IN SLIDE 42.
- D. ROUTE 128 RIGHT-OF-WAY PLANS PROVIDED DIGITALLY BY VTRANS.
- 2. NORTH ORIENTATION IS BASED ON SURVEY GRADE STATIC GPS OBSERVATIONS MADE ON AUGUST 17, 2021. THE RESULTANT HORIZONTAL DATUM IS NAD 83. THIS REALIZATION IS CALLED NAD 83(2011) EPOCH 2010.0. GEOID MODEL (GEOID12A). THE RESULTING ORTHOMETRIC HEIGHT IS NAVD 88 (GEOID12A).
- 3. THE IMPROVEMENTS SHOWN HEREON WERE LOCATED BY A SURVEY ON THE GROUND COMPLETED IN AUGUST 2021 AND SEPTEMBER
- 4. SURVEY METHODS EMPLOYED AND THE RESULTING ERROR OF CLOSURE/PRECISION RATIO, MEET OR EXCEED THE MINIMUM PRECISION REQUIREMENTS FOR RURAL SURVEYS AS OUTLINED IN "STANDARDS FOR THE PRACTICE OF LAND SURVEYING" ADOPTED BY THE VERMONT BOARD OF LAND SURVEYORS EFFECTIVE 1/7/13.
- 5. THE MEASUREMENTS AND INFORMATION PRODUCED BY THIS SURVEY AND SHOWN HEREON MAY CONTRAST FROM RECORDED SURVEY INFORMATION DUE TO DIFFERENCES IN ORIENTATION, DECLINATION, OR METHODS OF MEASUREMENT.
- THE PREMISES SHOWN AND DESCRIBED HEREON MAYBE SUBJECT TO EXISTING BURIED UTILITIES, EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS. COVENANTS, PERMITS, REGULATIONS, AND/OR SETBACK LINES WHICH MAY NOT BE RECORDED IN THE PUBLIC RECORDS. ONLY DEEDS, PLATS, AND PLANS OF PUBLIC RECORD, WHICH ARE PROPERLY INDEXED IN THE TOWN OF WESTFORD LAND RECORDS HAVE BEEN REVIEWED, EXAMINED AND UTILIZED FOR THE PURPOSE OF THIS SURVEY. CLEAR EVIDENCE OF AN EASEMENT OR RESTRICTION OF RECORD OR EVIDENCE OF EASEMENTS AND STRUCTURES, WHICH ARE READILY APPARENT FROM A CASUAL ABOVEGROUND VIEW, ARE DELINEATED HEREON. NO LIABILITY IS ASSUMED BY THE UNDERSIGNED FOR ANY LOSS ASSOCIATED WITH THE EXISTENCE OF ANY UNDISCOVERED EASEMENTS OR RESTRICTIONS ON THE USE OF THE PROPERTY, WHICH ARE NOT SHOWN OF RECORD OR ARE NOT READILY APPARENT.
- THE PUBLIC RIGHT OF WAY OF VERMONT ROUTE 128 IS DOCUMENTED TO BE 3-RODS (49.5') IN WIDTH (SEE PLANS LISTED IN NOTE 1D). THE LIMITS OF THE RIGHT OF WAY SHOWN HEREON ARE BASED ON THE CENTERLINE OF THE EXISTING TRAVELED WAY AND CENTERLINE DATA PROVIDED BY THE ROW PLANS.
- 8. THE DIAMETERS OF EXISTING MONUMENTATION SHOWN ON THIS PLAN REFLECT OUTSIDE DIAMETER DIMENSIONS.
- 9. REBAR BOUNDARY MARKERS SHOWN HEREON AS "SET" OR "TO BE SET" ARE 5/8" DIAMETER REINFORCING STEEL, 40" LONG, CROWNED WITH AN ALUMINUM SURVEYOR'S CAP SET BY A VERMONT LICENSED LAND SURVEYOR AT THE DISCRETION OF THE PROPERTY OWNER /
- 10. THIS SURVEY REVEALED BOUNDARY INCONSISTENCIES BETWEEN RECORDED AND PHYSICAL BOUNDARY EVIDENCE PERTINENT TO THIS PROPERTY. THESE INCONSISTENCIES ARE SHOWN HEREON.
- 11. THIS SURVEY IS CERTIFIED TO THE TOWN OF WESTFORD FOR THE PURPOSE OF RETRACING THE RECORD PARCEL BOUNDARY AS SHOWN HEREON. NO LIABILITY IS ASSUMED BY THE UNDERSIGNED FOR ANY LOSS THAT MAY BE ASSOCIATED WITH THE USE OF THIS SURVEY OTHER THAN THE ABOVE STATED PURPOSE.
- 12. REPRODUCTIONS OF THIS SKETCH ARE NOT VALID UNLESS SEALED WITH A RED-INKED LICENSED SURVEYOR'S SEAL.
- 13. ACCEPTANCE OF THIS SURVEY PLAT OR USE OF THE CORNER MONUMENTS FOUND OR SET DURING THE PERFORMANCE OF THE FIELD SURVEY HEREBY LIMIT THE UNDERSIGNED LIABILITY RELATED TO PROFESSIONAL NEGLIGENT ACTS, ERRORS, OMISSIONS, OR BREACHES OF CONTRACT TO AN AMOUNT NOT TO EXCEED THE FEE CHARGED.
- 14. THIS PLAN MAY NOT BE MODIFIED IN ANY WAY WITHOUT CONSENT OF THE PREPARER.

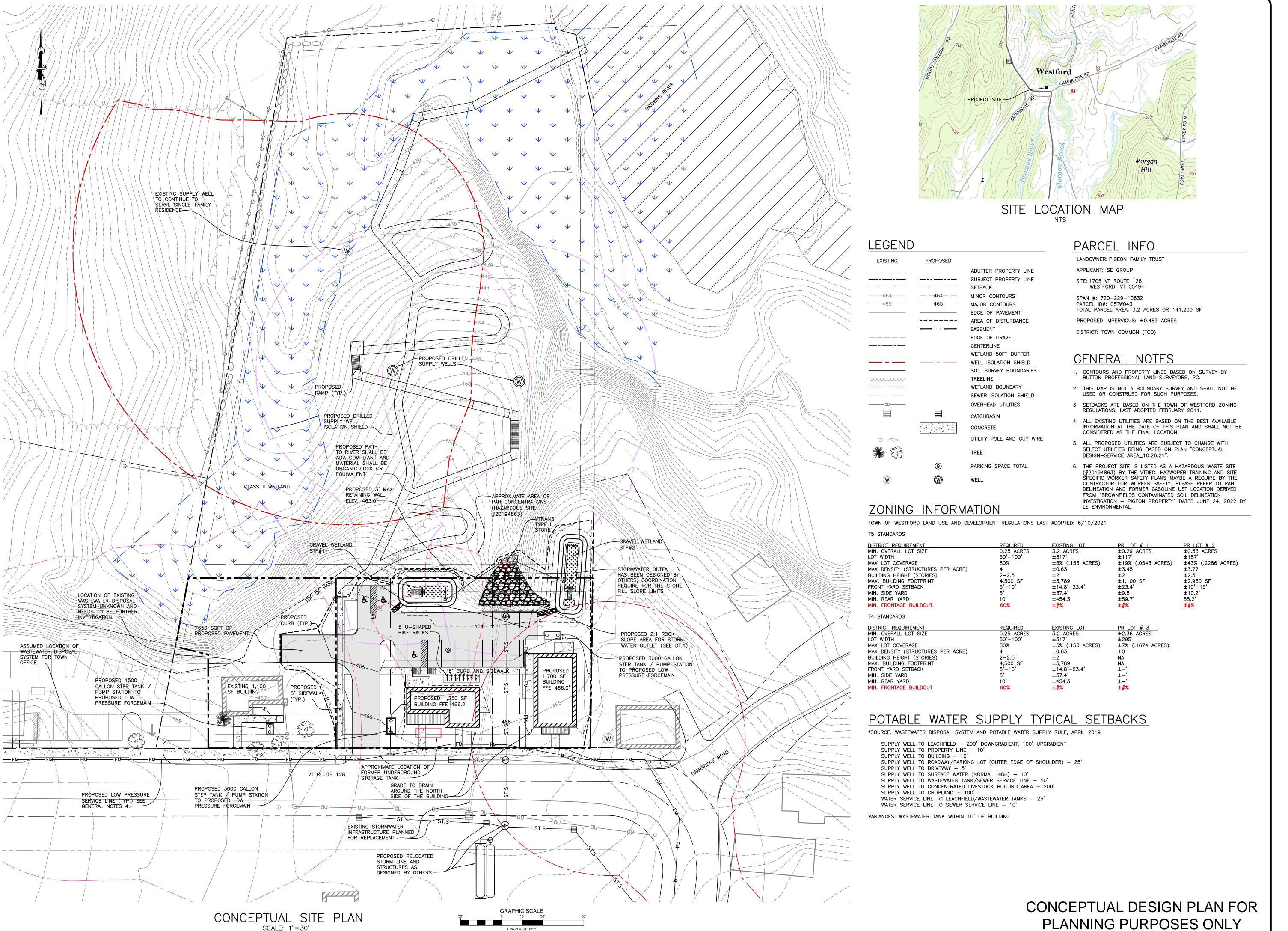
CONCEPTUAL DESIGN PLAN FOR PERMITTING PURPOSES ONLY



RELIMINARY SITE EVALUATION
EXISTING CONDITIONS PLAN
1705 VT ROUTE 128
WESTFORD, VT 05494

KA/RH SJD 8/14/2023 **AS NOTED** 805210270

EX.1



REVISIONS BY

venue D, Suite 10

x 787

n, VT 05495

as—consulting.com



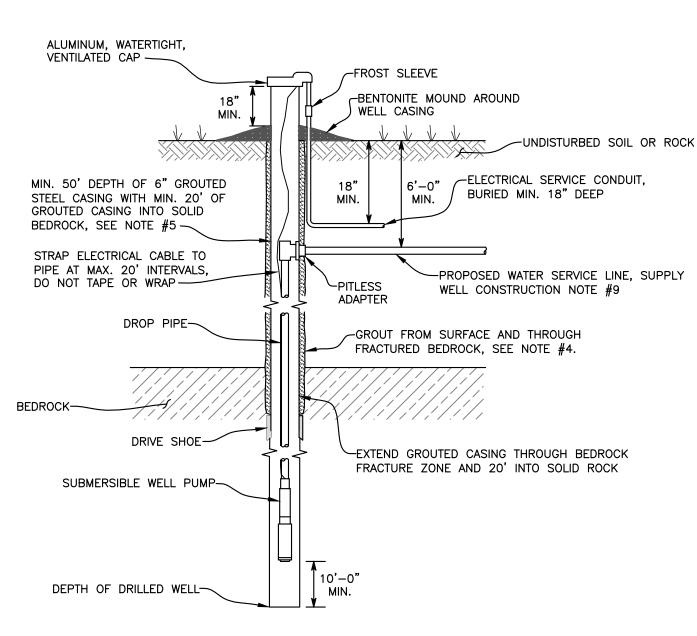
WESTFORD HISTORIC MARKET RO
PRELIMINARY SITE EVALUATION
PROPOSED OVERVIEW SITE PLAI
1705 VT ROUTE 128
WESTFORD, VT 05494

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AS NOTED
JOB NO.
805210270

SP.1

GENERAL CONSTRUCTION NOTES:

- . WHERE DISCREPANCIES EXIST BETWEEN BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, MANUFACTURER RECOMMENDATIONS, AND THESE PLANS, THE MOST STRINGENT SHALL APPLY.
- 2. A COMPREHENSIVE SURVEY OF UNDERGROUND UTILITIES WAS NOT CONDUCTED. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CONFLICTS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. CONTACT "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY SUBSURFACE CONSTRUCTION AT 1-888-344-7233 BETWEEN 6:00 AM AND 6:00 PM WEEKDAYS. ALSO, CONTACT THE TOWN OF WESTFORD, VFRMONT. PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND
- 4. ANY DE-WATERING OR BEDROCK EXCAVATION THAT IS NECESSARY FOR THE COMPLETION OF SITE WORK SHALL BE CONSIDERED AS PART OF THE CONTRACT AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 5. ANY CONFLICTS OR INCONSISTENCIES WITH THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- 6. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO BEGINNING ANY LAND DISTURBANCES. THE DEVICES SHALL NOT BE REMOVED UNTIL THE DISTURBED LAND AREAS ARE STABILIZED.
- 7. ALL DISTURBED AREAS OF THE SITE SHALL BE SEEDED OR STABILIZED WITH EROSION CONTROL MATERIALS, SUCH AS STRAW MULCH, JUTE MESH, OR EXCELSIOR WITHIN 15 DAYS OF FINAL GRADING. IF CONSTRUCTION HAS BEEN SUSPENDED, OR SECTIONS COMPLETED, AREAS SHALL BE SEEDED IMMEDIATELY AND STABILIZED WITH EROSION CONTROL MATERIALS. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
- 8. THE ENGINEER MUST INSPECT THE LOCATION OF THE PROPOSED SUPPLY WELL. THE ENGINEER MUST ALSO INSPECT THE SYSTEM PRIOR TO BACKFILL, AND OBSERVE SYSTEM TESTING. CONTACT THE ENGINEER AT 802-383-0486 A MINIMUM OF ONE WEEK PRIOR TO SCHEDULE INSPECTIONS.
- 9. THE EXISTING ONSITE DRILLED SUPPLY WELL SHALL BE UTILIZED BY THE EXISTING SINGLE—FAMILY RESIDENCE. THE PIPING SHALL BE INSPECTED AND REPLACED, IF NECESSARY. IF REPLACED, THE PIPING SHALL BE TESTED AND DISINFECTED FOLLOWING THE CURRENT VERMONT WATER SUPPLY RULE.
- 10. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONTINUED PROPER USE OR MAINTENANCE OF THE SYSTEM.



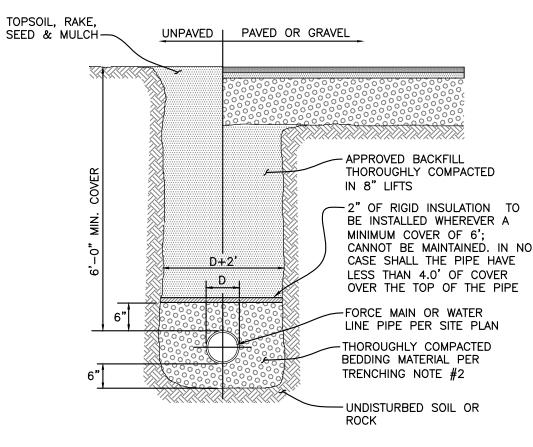
DRILLED SUPPLY WELL DETAIL

SUPPLY WELL CONSTRUCTION NOTES:

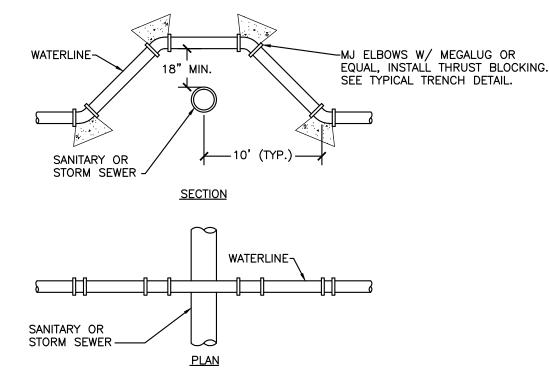
- 1. A PAH IMPACTED SOIL AREA AND PETROLEUM IMPACTED GROUNDWATER AREA HAVE BEEN DELINEATED AS SHOWN ON SHEET SP.1. BASED ON THE PRESENCE OF SUBSURFACE CONTAMINATION AND UNKNOWN LOCATIONS OF LEACHFIELDS, THE WELL SHALL BE CONSTRUCTED WITH ADDITIONAL SAFETY MEASURES AS DETAILED BELOW.
- 2. A COMPREHENSIVE FIELD VERIFICATION OF AREA LEACHFIELDS WILL BE REQUIRED PRIOR TO THE INSTALLATION OF SUPPLY WELLS. THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH SUCH DELINEATION FOR FINAL PLACEMENT
- 3. A QUALIFIED ENGINEER OR DESIGNER SHALL FIELD DELINEATE THE WELL LOCATION PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MATERIALS SHALL BE PRESENTED TO THE ENGINEER FOR FINAL APPROVAL.
- 4. THE WELL CASING SIZE SHALL BE A MINIMUM 6" AND CASED THROUGH OVERBURDEN, THROUGH BEDROCK FRACTURE ZONES AND 20 FEET INTO SOLID BEDROCK.
- 5. THE WELL SHALL CONTAIN GROUTED CASING FOR A MINIMUM DEPTH OF 50 FEET WITH A MINIMUM OF 20 FEET INTO SOLID BEDROCK TO BE EXEMPT FROM MPA TESTING.
- 6. THE GROUT SHOULD COMPRISE OF NEAT CEMENT WITH 2% BENTONITE AND ALLOWED A MINIMUM OF 12 HOURS TO CURE PRIOR TO BOREHOLE ADVANCEMENT.
- 7. FOLLOWING THE INSTALLATION OF THE SUPPLY WELL, IT SHALL BE PROPERLY DISINFECTED AND SAMPLED PER THE CURRENT VT WATER SUPPLY RULES.
- 8. WELL CONSTRUCTION MAY BE ALTERED THROUGH THE DEVELOPMENT OF THE CORRECTIVE ACTION PLAN AND FINAL
- 9. THE WATER LINE SIZE AND MATERIAL, SOURCE CAPACITY, STORAGE CAPACITY, PUMP SIZING, AND OPERATING PRESSURE RANGE SHALL BE DETERMINED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE VERMONT
- 10. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONSTRUCTION PERFORMANCE AND CONTINUED OPERATION AND MAINTENANCE OF THE SYSTEM.

TRENCH NOTES:

- 1. TYPICAL TRENCH FOR POTABLE WATER SERVICE LINE.
- 2. COMPACTION OF BACKFILL AND BEDDING SHALL BE A MINIMUM OF 90% (95% UNDER ROADWAY SURFACES) OF MAXIMUM DRY DENSITY DETERMINED IN THE STANDARD PROCTOR TEST (ASTM D698).
- 3. BEDDING MATERIAL SHALL NOT BE PLACED ON FROZEN SUBGRADE.
- 4. APPROVED BACKFILL SHALL NOT CONTAIN ANY STONES MORE THAN 6" IN LARGEST DIMENSION. 2" MAXIMUM DIAMETER WITHIN 2' OF THE OUTSIDE OF THE PIPE, OR ANY FROZEN, OR ORGANIC MATERIAL.
- 5. TRENCHES SHALL BE COMPLETELY DEWATERED PRIOR TO PLACING OF THE PIPE BEDDING MATERIAL AND KEPT DEWATERED DURING INSTALLATION OF PIPE AND
- 6. THE SIDES OF TRENCHES 4' OR MORE IN DEPTH ENTERED BY PERSONNEL SHALL BE SHEETED OR SLOPED TO THE ANGLE OF REPOSE AS DEFINED BY O.S.H.A.
- 7. BEDDING MATERIAL FOR WATER LINES SHALL CONSIST OF CRUSHED STORE OR GRAVEL WITH MAXIMUM SIZE OF 3/4". SUBMIT A SAMPLE TO THE ENGINEER FOR APPROVAL.



TYPICAL TRENCH DETAIL SCALE: NTS

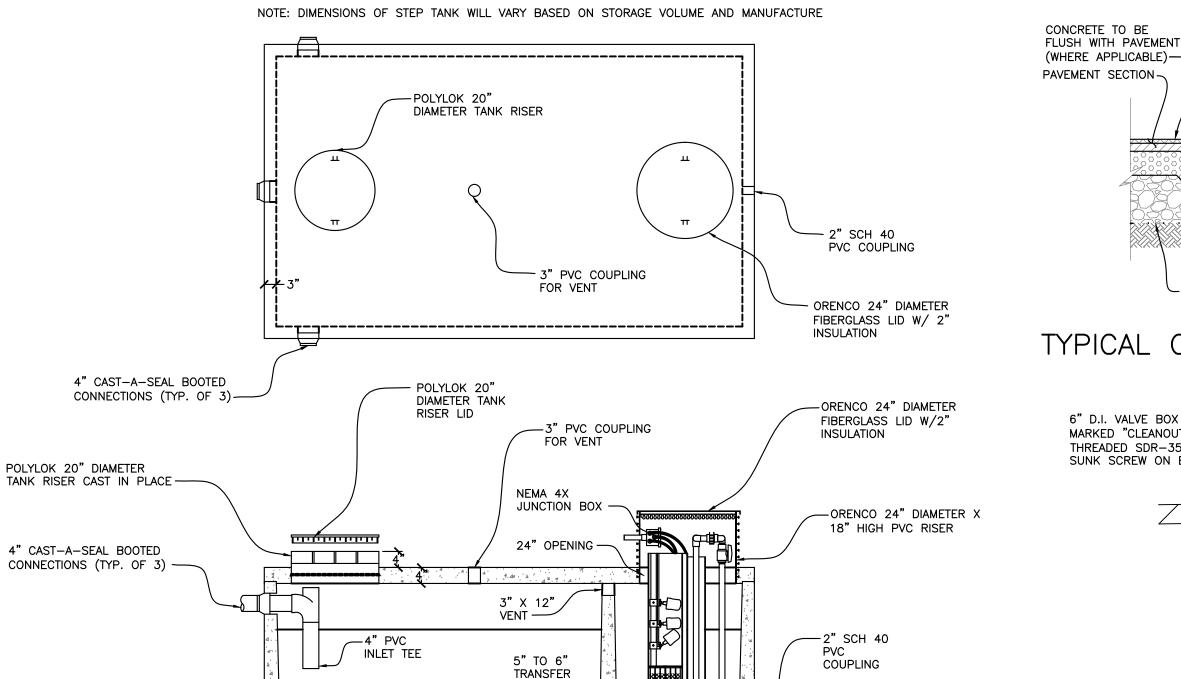


- 1. THE CROSSING SHALL BE ARRANGED AS SHOWN SO THAT THE SEWER JOINTS ARE AS FAR AS POSSIBLE AND EQUIDISTANT FROM THE POINT OF INTERSECTION.
- 2. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.
- 3. IF THE WATER AND SEWER LINES ARE UNABLE TO MAINTAIN HORIZONTAL SEPARATION OF 10' AND VERTICAL SEPARATION OF 18", EITHER THE WATER OR SEWER LINE SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE (e.g. SDR 35 PVC) THAT EXTENDS 10 FEET ON BOTH SIDES OF THE CROSSING (MEASURED PERPENDICULAR TO THE WATER LINE).

WATER/SEWER CROSSING DETAIL

-3.5" PAVEMENT SECTION CONSISTING OF: TOP COARSE: 1.5" (WEAR ASPHALT PAVEMENT) BASE COARSE: 2.0" (BASE ASPHALT PAVEMENT) SLOPE PER PLAN CRUSHED GRAVEL - FINE VAOT SPEC. 704.05A ÇĈŔÛSHÊD ĠŔAVÈL — COARŜE VAOT SPEC. 704.04 - COMPACTED SUBGRADE - GEOTEXTILE FOR ROADBED SEPARATOR, MIRAFI 500X OR EQUIVALENT

PAVEMENT SECTION DETAIL



TYPICAL STEP TANK DETAIL

OPENING-

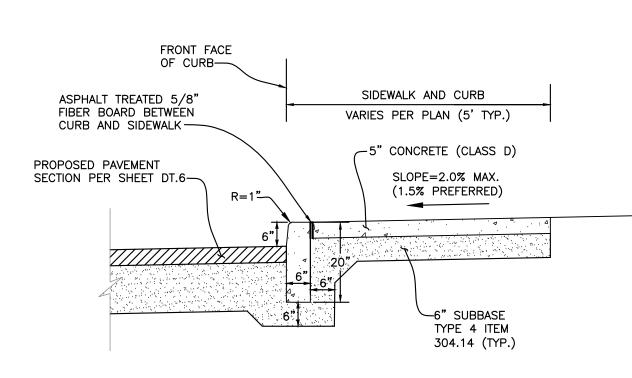
CAST-IN

REINFORCING

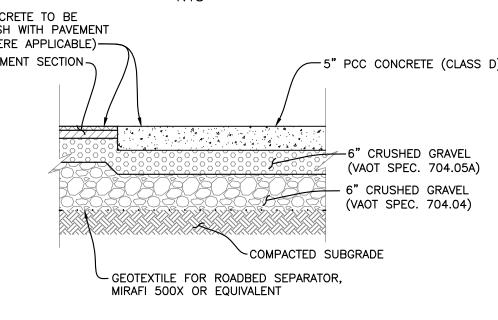
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COMPARTMENT

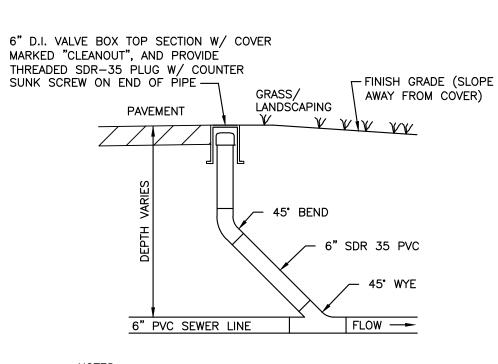
PUMP VAULT +







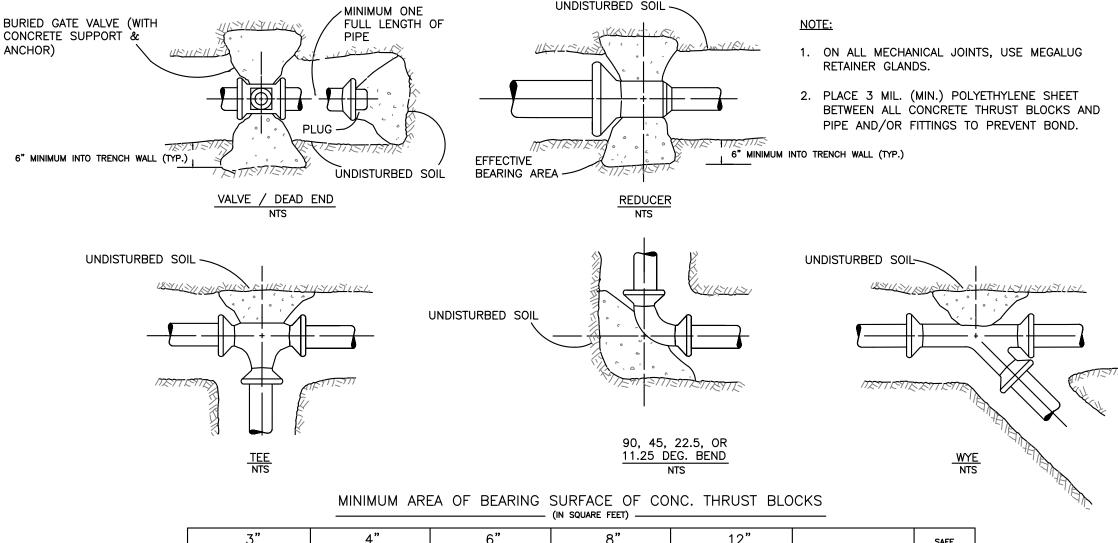
TYPICAL CONCRETE SECTION DETAIL



<u>NOTES</u>

- 1. CLEANOUT TO BE INSTALLED AT INTERVALS OF NOT MORE THAN 100 FEET AND UPSTREAM OF BEND(S) IN BUILDING SEWER(S) WHEN THE CHANGE IN DIRECTION EXCEEDS 45° (USE LONG SWEEP FITTING WHEN EXCEEDING 45°)
- 2. ALL IRON CASTINGS SHALL BE THOROUGHLY CLEANED AND THEN COATED WITH HOT COAL TAR BEFOR BEING DELIVERED.

TYPICAL CLEANOUT DETAIL



3				4				6					8	5		12"					SAFE
ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	SOIL CONDITION	BEARING LOAD (PSF)																
0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	4.0	5.5	3.0	1.5	SOUND SHALE	10,000
1.0	1.0	1.0	0.5	1.5	2.0	1.0	0.5	3.0	4.0	2.0	1.0	4.5	6.5	3.5	2.0	10.0	14.0	7.5	4.0	CEMENTED GRAVEL & SAND	4,000
1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	3.5	5.0	3.0	1.5	6.0	8.5	5.0	2.5	13.0	18.5	10.0	5.0	COARSE & FINE COMPACT SAND	3,000
1.5	2.5	1.5	1.0	2.5	3.5	2.0	1.0	5.5	7.5	4.0	2.0	9.0	13.0	7.0	3.5	20.0	27.5	15.0	8.0	MEDIUM CLAY (CAN BE SPADED)	2,000
3.0	4.5	2.5	1.5	5.0	7.0	4.0	2.0	10.5	15.0	8.0	4.0	18.0	25.0	14.0	7.0	39.0	55.0	30.0	15.0	SOFT CLAY	1,000
MAX	IMUM V	VATER F	PRESSU	RE = 3	300 PSI	NO.	re: Rec	UCER E	BEARING	AREA	= 45	DEG. B	END, LA	RGER	PIPE	•			•		

TYPICAL THRUST BLOCK DETAIL

CONCEPTUAL DESIGN PLAN FOR PERMITTING PURPOSES ONLY

EVALUATION NOTES RIC AND ROU F > \(\rightarrow \rightarro IMII DE 17

RH/TB SJD 8/14/2023 **AS NOTED** JOB NO. 805210270

TESTING OF NEW WATER / FIRE SERVICE CONNECTION: A. GENERAL

ALL WATER LINES AND APPURTENANCES SHALL BE FLUSHED, HYDROSTATICALLY PRESSURE TESTED, DISINFECTED, AND FLUSHED AGAIN BEFORE BEING PLACED ON SERVICE, ACCORDING TO STANDARDS OUTLINED IN AWWA SPECIFICATION C651 AND CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES. CONTRACTORS SHALL ACCOUNT FOR AND REIMBURSE ALL WATER USED FOR FLUSHING AND CONSTRUCTION ACTIVITIES. THE LONGEST LENGTH OF TEST PIPE SHALL BE 1000 FEET. IN ADDITION, FOLLOW ALL NEPA 24 STANDARDS FOR THE INSTALLATION AND TESTING OF PRIVATE FIRE SERVICE CONNECTIONS. WHERE DISCREPANCIES EXIST BETWEEN STANDARDS, THE MOST STRINGENT SHALL APPLY.

B. PRESSURE AND LEAKAGE TESTING ALL NEW WATER LINES SHALL BE FILLED AT A MAXIMUM VELOCITY OF 1FT/SEC (SLOWLY) WHILE VENTING AIR.

THE PIPE TO BE TESTED SHALL BE SUFFICIENTLY BACKFILLED TO PREVENT MOVEMENT WHILE UNDER TEST PRESSURE.

THRUST BLOCKS SHOULD BE PERMANENT AND CONSTRUCTED TO WITHSTAND THE TEST PRESSURE. IF POURED IN-PLACE CONCRETE THRUST BLOCKS ARE USED, A MINIMUM OF SEVENTY TWO (72) HOURS MUST BE ALLOWED BEFORE TESTING TO PERMIT THE CONCRETE TO

TEST ENDS SHALL BE CAPPED AND BRACED TO WITHSTAND THE THRUSTS DEVELOPED UNDER THE TEST PRESSURE.

THE TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE EXERCISED TO ASSURE THAT ALL AIR IS REMOVED FROM THE LINE TO BE TESTED PRIOR TO STARTING THE TEST.

THE TEST PRESSURE SHALL BE A MINIMUM OF 200 PSI. THE ENGINEER REPRESENTING THE OWNER SHALL NOTIFY THE TOWN OR DESIGNATED REPRESENTATIVE TWO (2) WORKING DAYS BEFORE THE TEST IS TO BE CONDUCTED. THE OWNER'S ENGINEER OR DESIGNATED REPRESENTATIVE SHALL BE PRESENT DURING ALL TESTING. ALLOWABLE LEAKAGE SHALL BE COMPUTED BY THE FORMULA NXDCP^(1/2)/7400=Q WHERE Q IS THE NUMBER OF GALLONS OF ALLOWED LEAKAGE FOR ONE (1) HOUR, N IS THE NUMBER OF JOINTS, D IS THE NOMINAL PIPE DIAMETER IN INCHES, AND P IS THE TEST PRESSURE. THE RESULTS OF THE PRESSURE TEST SHALL BE SUPPLIED TO THE TOWN.

IF THE SYSTEM FAILS THE TEST, THE CONTRACTOR SHALL LOCATE AND REPAIR OR REPLACE THE SYSTEM AS REQUIRED. ALL TEST RESULTS SHALL BE PROVIDED TO THE TOWN PRIOR TO ACCEPTANCE OF THE SYSTEM.

C. DISINFECTION

DESIGN PHASE.

ALL WATER LINES, BEFORE BEING PUT INTO SERVICE, SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, OR AS DIRECTED BY THE TOWN OR DESIGNATED REPRESENTATIVE. THE LINES SHALL FIRST BE FLUSHED TO REMOVE ALL DIRTY OR DISCOLORED WATER FROM THEM. THE CONTRACTOR SHALL INSTALL A THREE QUARTER INCH (3/4") DIAMETER TAP IN THE WATER LINES FOR CHLORINE INJECTION. THE TAP SHALL BE LOCATED AS DIRECTED BY THE TOWN OR DESIGNATED REPRESENTATIVE. CHLORINATION SHALL BE ACCOMPLISHED BY INTRODUCING A CONCENTRATION OF FIFTY (50) PARTS PER MILLION OF AVAILABLE CHLORINE INTO THE TAP WHILE WATER IS WITHDRAWN AT THE OTHER END. THE DISINFECTING SOLUTION, AFTER REMAINING IN THE WATER LINE FOR TWENTY-FOUR (24) HOURS, SHALL HAVE A CONCENTRATION OF AT LEAST TWENTY FIVE (25) PARTS PER MILLION OF CHLORINE. THE TEST SHALL BE REPEATED IF THIS RESIDUAL CONCENTRATION IS NOT MET AT THE END OF THE TWENTY FOUR (24) HOUR PERIOD. CHLORINATED WATER DISCHARGED WHILE FLUSHING SHALL BE DECHLORINATED IN ACCORDANCE WITH THE MOST RECENT AWWA, STATE, AND FEDERAL REQUIREMENTS. FOLLOWING DISINFECTION AND FLUSHING PROCEDURES, AT LEAST TWO (2) SAMPLES MUST BE COLLECTED, IN APPROVED SAMPLE BOTTLES, FROM REPRESENTATIVE SAMPLE POINTS AND SENT TO THE STATE HEALTH DEPARTMENT LABORATORY IN BURLINGTON, VT 05401, FOR BACTERIOLOGICAL TESTING OR OTHER PRIVATE LABORATORY CERTIFIED BY THE STATE FOR DRINKING WATER ANALYSIS. "COLIFORM AGENT" RESULTS ARE REQUIRED BEFORE THE SYSTEM MAY BE PLACED "ON-LINE" FOR DRINKING. SAMPLES SHOWING POSITIVE FOR BACTERIOLOGICAL CONTAMINATION SHALL BE DISINFECTED AGAIN AND RE-TESTED. THE PROCESS SHALL BE REPEATED UNTIL NEGATIVE SAMPLE RESULTS ARE OBTAINED. ALL TESTING RESULTS SHALL BE SUPPLIED TO THE TOWN.